


APPENDIX C

ALTERNATIVE 2

CALCULATIONS

APPENDIX C-1

LIVE LOAD DISTRIBUTION FACTORS

	Made by	CAM	Date	9/10/2013	Job Number
	Checked by		Date		Sheet Number
	Backchecked by		Date		

Span 11 - Proposed Girders

Live Load Distribution Factors

L=	121.17	ft	Span Length
t _s =	8.00	in	Deck Slab Thickness
S=	13.11	ft	Beam Spacing
S ₂ =	13.11	ft	Beam Spacing (between Existing and Widening)
	4.75	ft	Deck Overhang
	1.54	ft	Curb Width
d _e =	3.21	ft	(LRFD 4.6.2.2.1)
h _{buildup} =	1.00	in	
f' _{c,beam} =	7.50	ksi	Beam Concrete Strength
f' _{c,deck} =	5.50	ksi	Deck Concrete Strength
E _{c,beam} =	4490.96	ksi	Beam Elastic Modulus
E _{c,deck} =	3845.83	ksi	Deck Elastic Modulus
n=	1.17		

Note:

Since skew < 30°, no skew adjustment is required.

FIB-78

A _{beam} =	1100.58	in ²	
I _{beam} =	903861.00	in ⁴	
y _i =	43.37	in	
e _g =	48.37	in	
d =	78.00	in	
K _y =	4062410.59	in ⁴	(LRFD eq. 4.6.2.2.1-1)

S_{avg}= 13.11 ft Average Beam Spacing

Distribution of Live Loads for Moment in Interior Beams: LRFD Table 4.6.2.2b-1

	1 design	2 design	
	lane loaded:	lane loaded:	g _{interior.mom}
N _b >3 =>	0.65	1.00	0.997

Distribution of Live Loads for Moment in Exterior Beams: LRFD Table 4.6.2.2d-1


	1 design	2 design	
	lane	lane loaded:	g _{exterior.mom}
N _b >3 =>	1.04	1.12	1.119

Distribution of Live Loads for Shear in Interior Beams: LRFD Table 4.6.2.2.3a-1

	1 design	2 design	
	lane loaded:	lane loaded:	g _{interior.shear}
N _b >3 =>	0.88	1.15	1.152

Distribution of Live Loads for Shear in Exterior Beams: LRFD Table 4.6.2.2.3b-1

	1 design	2 design	
	lane loaded:	lane loaded:	g _{exterior.shear}
N _b >3 =>	1.04	1.06	1.061

	Made by	CAM	Date	9/10/2013	Job Number
	Checked by		Date		Sheet Number
	Backchecked by		Date		

Span 12 - Proposed Girders

Live Load Distribution Factors

L=	142.25	ft	Span Length
t _s =	8.00	in	Deck Slab Thickness
S=	13.11	ft	Beam Spacing
S ₂ =	13.11	ft	Beam Spacing (between Existing and Widening)
	4.75	ft	Deck Overhang
	1.54	ft	Curb Width
d _e =	3.21	ft	(LRFD 4.6.2.2.1)
h _{buildup} =	1.00	in	
f' _{c,beam} =	7.50	ksi	Beam Concrete Strength
f' _{c,deck} =	5.50	ksi	Deck Concrete Strength
E _{c,beam} =	4490.96	ksi	Beam Elastic Modulus
E _{c,deck} =	3845.83	ksi	Deck Elastic Modulus
n=	1.17		

FIB-78

A _{beam} =	1100.58	in ²	
I _{beam} =	903861.00	in ⁴	
y _i =	43.37	in	
e _g =	48.37	in	
d =	78.00	in	
K _y =	4062410.59	in ⁴	(LRFD eq. 4.6.2.2.1-1)

S_{avg}= 13.11 ft Average Beam Spacing

Distribution of Live Loads for Moment in Interior Beams: LRFD Table 4.6.2.2b-1

	1 design lane loaded:	2 design lane loaded:	g _{interior.mom}
N _b >3 =>	0.62	0.95	0.953

Distribution of Live Loads for Moment in Exterior Beams: LRFD Table 4.6.2.2d-1

	1 design lane	2 design lane loaded:	g _{exterior.mom}
N _b >3 =>	1.04	1.07	1.070

Distribution of Live Loads for Shear in Interior Beams: LRFD Table 4.6.2.2.3a-1

	1 design lane loaded:	2 design lane loaded:	g _{interior.shear}
N _b >3 =>	0.88	1.15	1.152

Distribution of Live Loads for Shear in Exterior Beams: LRFD Table 4.6.2.2.3b-1

	1 design lane loaded:	2 design lane loaded:	g _{exterior.shear}
N _b >3 =>	1.04	1.06	1.061

APPENDIX C-2

MISC. CALCULATIONS FOR ANALYSIS INPUT

Misc. Calculations for CONSPAN Input:
Span 11 - Reversible Lanes

Concrete Modulus of Elasticity **FIB-28**

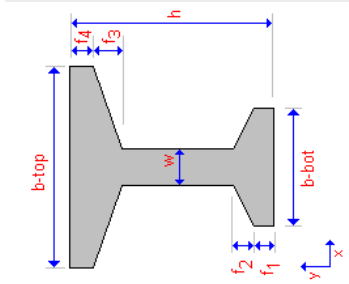
$f'_c := 7.5 \text{ ksi}$	...Class VI (Special) Concrete (f'final)
$f'_{cl} := \min(0.8 \cdot f'_c, 6.0 \text{ ksi})$	...Class VI (Special) Concrete (Release) <i>(LRFD 5.4.2.3, SDG 4.3.1C.4)</i>
$f'_{c_deck} := 5.5 \text{ ksi}$	...Class IV Bridge Deck
$\gamma_c := 0.150 \cdot kcf$	...unit weight of concrete used for load calculation
$E_c := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_c} \text{ ksi}$	...Class VI (Special) Concrete (f'final)
$E_{cl} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{cl}} \text{ ksi}$	...Class VI (Special) Concrete (Release)
$E_{c_deck} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{c_deck}} \text{ ksi}$	...Class IV Bridge Deck

$$n := \frac{E_c}{E_{c_deck}}$$

n = 1168
...modular ratio

Section Geometry

$t_{slab} := 8.5 \text{ in}$	
$t_{sacr} := 0.5 \text{ in}$	
$h := 6 \text{ ft} + 6 \text{ in}$	
$w := 7 \text{ in}$	
$b_t := 4 \text{ ft} + 0 \text{ in}$	
$b_b := 3 \text{ ft} + 2 \text{ in}$	
$t_4 := 3.5 \text{ in}$	
$f_3 := 1.5 \text{ in}$	...Ignore additional chamfer at top flange
$f_2 := 7.5 \text{ in}$	...Ignore fillet at bottom flange
$f_1 := 7 \text{ in}$	



Span Geometry (Typical)

$N_{beamsW} := 6$	...Number of beams (Widening)
$overhang_left := 4.75 \text{ ft}$	
$overhang_right := 4.75 \text{ ft}$	
$Width_Barrier_left := 1 \text{ ft} + 6 \cdot \frac{1}{2} \cdot \text{in}$	
$Width_Barrier_right := 1 \text{ ft} + 6 \cdot \frac{1}{2} \cdot \text{in}$	
$S_w := 13 \text{ ft} + 1.375 \text{ in}$	...Beam Spacing (Widening)
$Width_{total} := (N_{beamsW} - 1) \cdot S_w + overhang_left + overhang_right$	
$Width_{total} = 75.073 \text{ ft}$	...Edge to edge width of deck
$Offset := 37 \text{ ft} + 6.5 \text{ in}$	...Offset from CL I4 to original edge of ultimate section
$Skew := \left[90 - \left(75 + \frac{50}{60} + \frac{47}{60 \cdot 60} \right) \right] \cdot \text{deg}$	...Skew Angle
$L := 12 \text{ ft} + 2 \text{ in}$	...Span CL Pier - CL Pier (along CL I4)
$L_{s1} := L + \left(\frac{Width_{total}}{2} \right) \cdot \tan(Skew)$	...Span CL Pier - CL Pier (along CL bridge)
$beg_cl_brg := 1 \text{ ft} + 2.5 \text{ in}$	...Beam cl bearing Length Span
$end_cl_brg := 1 \text{ ft} + 2.5 \text{ in}$	...Beam cl bearing Length Span
$L_{design_1} := L_{s1} - \frac{beg_cl_brg}{1} - \frac{end_cl_brg}{\cos(Skew)}$	...Beam design Span Length
$J := 10 \text{ in}$	...Beam overhang past CL bearing
$L_b := L_{design_1} + J + \frac{J}{\cos(Skew)}$	...Beam length Span 1
$d_e_left := overhang_left - Width_Barrier_left$	$d_e_left = 3.208 \text{ ft}$
$d_e_right := overhang_right - Width_Barrier_right$	$d_e_right = 3.208 \text{ ft}$

Dead Load Calculation - Area Loads

Build-up on beam

Assume 3" build-up (CONSPAN will include 1" of build-up)

$$h_{bu} := 2in$$
$$A_{bu} := h_{bu} \cdot b_t$$
$$w_{bu} := A_{bu} \cdot \gamma_c$$

...Build-up height

...Cross-sectional area of build-up

...Build-up line load

SJP Forms

Load on existing exterior

$P_{sip} := 0.02 \cdot ksf$

Load on widening interior

$w_{sip_w_in} := (S_w - b_t) \cdot P_{sip}$

$w_{sip_w_in} = 0.182 \cdot klf$

Load on widening exterior

$w_{sip_w_in} := \left(\frac{S_w - b_t}{2} \right) \cdot P_{sip}$

$w_{sip_w_in} = 0.091 \cdot klf$

Light pole pedestal weight (FDOT index 21200)

No roadway lighting along SR400 (I-4) Over St. John's River Bridge.

$$w_{lpp} := 0 \frac{kip}{ft}$$

$$w_{lpp} = 0 \frac{kip}{ft}$$

Thickened end slab

No thickened end slabs on SR400 (I-4) Over St. John's River Bridge.

Sacrificial Deck

Load due to sacrificial deck thickness is computed within CONSPAN analysis

Dead Load Calculation - Diaphragm Loads

Intermediate Diaphragms

No intermediate diaphragms on SR-400 (I-4) Over St. John's River Bridge.

End Diaphragms

No End diaphragms loads are computed for separate FIB cross section.

Dead Load Calculation - Drainage Conduit

Assume load due to drainage conduit is negligible.

Misc. Calculations for CONSPAN Input:
Span 12 - Reversible Lanes

Concrete Modulus of Elasticity **FIB-78**

$f'_c := 7.5 \text{ ksi}$

$f'_{cl} := \min(0.8 \cdot f'_c, 6.0 \text{ ksi})$

$f'_{c_deck} := 5.5 \text{ ksi}$

$\gamma_c := 0.150 \cdot kcf$

$f'_c := 7.5 \text{ ksi}$

$f'_{cl} := 6 \text{ ksi}$
Concrete (Release)

$f'_{c_deck} = 5.5 \text{ ksi}$
Class IV Bridge Deck

$\gamma_c = 0.15 \cdot kcf$
unit weight of concrete used for load calculation

$E_c := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_c} \cdot \text{ksi}$

$E_{cl} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{cl}} \cdot \text{ksi}$

$E_{c_deck} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{c_deck}} \cdot \text{ksi}$

$n := \frac{E_c}{E_{c_deck}}$

$n = 1168$

modular ratio

Section Geometry

$t_{slab} := 8.5 \text{ in}$

$t_{sacr} := 0.5 \text{ in}$

$h := 6 \text{ ft} + 6 \text{ in}$

$w := 7 \text{ in}$

$b_t := 4 \text{ ft} + 0 \text{ in}$

$b_b := 3 \text{ ft} + 2 \text{ in}$

$f_4 := 3.5 \text{ in}$

$f_3 := 1.5 \text{ in}$

$f_2 := 7.5 \text{ in}$

$f_1 := 7 \text{ in}$

$h = 78 \text{ in}$

$w = 7 \text{ in}$

$b_t = 48 \text{ in}$

$b_b = 38 \text{ in}$

$f_4 = 3.5 \text{ in}$

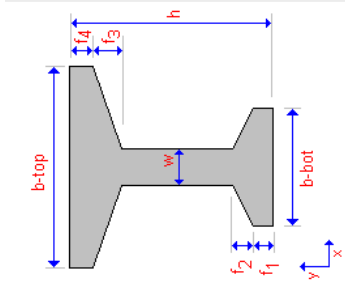
$f_3 = 1.5 \text{ in}$

$f_2 = 7.5 \text{ in}$

$f_1 = 7 \text{ in}$

Ignore additional chamfer at top flange

Ignore fillet at bottom flange



Span Geometry (Typical)

$N_{beamsW} := 6$

Number of beams (Widening)

$overhang_left := 4.75 \text{ ft}$

$overhang_right := 4.75 \text{ ft}$

$Width_Barrier_left := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$

$Width_Barrier_right := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$

$S_W := 13 \text{ ft} + 1.375 \text{ in}$

Beam Spacing (Widening)

$Width_{total} := (N_{beamsW} - 1) \cdot S_W + overhang_left + overhang_right$

$Width_{total} = 75.073 \text{ ft}$

Edge to edge width of deck

$Offset := 37 \text{ ft} + 6.5 \text{ in}$

Offset from CL I4 to edge of ultimate section

$Skew := \left[90 - \left(75 + \frac{50}{60} + \frac{47}{60 \cdot 60} \right) \right] \cdot \text{deg}$

Skew Angle

$Skew = 14.154 \text{ deg}$

$L := 142 \text{ ft} + 4 \text{ in}$

Span CL Pier - CL Pier (along CL I4)

$L_{s1} := L$

Span CL Pier - CL Pier (along CL bridge)

$L_{s1} = 142.333 \text{ ft}$

$beg_cl_brg = 14.5 \text{ in}$

Beam cl bearing Length Span

$end_cl_brg := 1 \text{ ft} + 2.5 \text{ in}$

Beam cl bearing Length Span

$L_{design_1} := L_{s1} - \frac{beg_cl_brg}{\cos(Skew)} - \frac{end_cl_brg}{\cos(Skew)}$

Beam design Span Length

$L_{design_1} = 139.841 \text{ ft}$

$J := 10 \text{ in}$

Beam overhang past CL bearing

$L_b := L_{design_1} + 2 \cdot \frac{J}{\cos(Skew)}$

Beam length Span 1

$L_b = 141.560 \text{ ft}$

$d_e_left := overhang_left - Width_Barrier_left$

$d_e_left = 3.208 \text{ ft}$

$d_e_right := overhang_right - Width_Barrier_right$

$d_e_right = 3.208 \text{ ft}$

Dead Load Calculation - Area Loads

Build-up on beam

Assume 3" build-up (CONSPAN will include 1" of build-up)

$h_{bu} := 2in$

$h_{bu} = 0.167ft$

...Build-up height

$A_{bu} := h_{bu} \cdot b_t$

$A_{bu} = 0.667ft^2$

...Cross-sectional area of build-up

$w_{bu} := A_{bu} \cdot \gamma_c$

$w_{bu} = 0.1klf$

...Build-up line load

SIP Forms

Load on existing exterior

$P_{sip} := 0.02ksf$

Load on widening interior

$w_{sip_w_in} := (S_w - b_t) \cdot P_{sip}$

$w_{sip_w_in} = 0.182klf$

Load on widening exterior

$w_{sip_w_in} := \left(\frac{S_w - b_t}{2}\right) \cdot P_{sip}$

$w_{sip_w_in} = 0.091klf$

Light pole pedestal weight (FDOT index 21200)

No roadway lighting along SR400 (I-4) Over St. John's River Bridge.

$w_{lpp} := 0 \frac{kip}{ft}$

$w_{lpp} = 0 \frac{kip}{ft}$

Thickened end slab

No thickened end slabs on SR400 (I-4) Over St. John's River Bridge.

Sacrificial Deck

Load due to sacrificial deck thickness is computed within CONSPAN analysis

Dead Load Calculation - Diaphragm Loads

Intermediate Diaphragms

No intermediate diaphragms on SR 400 (I-4) Over St. John's River Bridge.

End Diaphragms

End diaphragm loads are computed within CONSPAN analysis

Dead Load Calculation - Drainage Conduit

Assume load due to drainage conduit is negligible.

APPENDIX C-3

SUPERSTRUCTURE ANALYSIS

Bentley

Program: LEAPe CONSPAN® V8i (SELECTseries 5)

Version: 12.01.00.57

File Name: Span11EB_Modified Spacing.csl

Sheet # 1

Job #

Designed KSM

Date Sept/9/2013

Checked

Date

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Phone: 1-800-778-4277

PROJECT DATA

Project: I4 Over St. John's River Bridge

Designer: KSM

Date: Sept/9/2013

Checked By:

Date Checked:

User Job number:

State: FL, State Job #:

State: Florida

Specification: AASHTO LRFD - 6th Edition, 2012

Design Code: US

Units: Simple Span

Span Type: Yes

Flared Girder: ILLKmw001PMWORK3\Jobs\59219 - I4 SAMRTECHPROD\4321001201\Segment 4\structeng_data\I-4 Over St. John's River\I02 Alternative 2 - Reversible Lanes\1. Superstructure\Update_140910_74.08' Roadway\Span 11 Rev\Span11EB_Modified Spacing.csl

File Name:

Units: U.S. Units

Design Code: AASHTO LRFD

Printed on: September 11, 2014 @ 9:03 A.M.

Bentley

Program: LEAPe CONSPAN® V8i (SELECTseries 5)

Version: 12.01.00.57

File Name: Span11EB_Modified Spacing.csl

Sheet # 2

Job #

Designed KSM

Date Sept/9/2013

Checked

Date

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GEOMETRY DATA

ALIGNMENT DATA

Bridge Alignment: ALG01
Beginning Station: 0+00.0000 ft

Seg	Shape	Start Direction	End Station	Radius	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	75.083
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	72.000
Number of spans	1
Number of lanes	4
Lane width (ft)	12.000
Eft Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	48.000
Bridge c/s M(1xx) (in4)	13348360.00

Component	RefName	Station	Bearing	Deck Width	Deck Offset
Begin Bridge		0+00.0000	N 0 00 00.00 W	75.0830	0.0000
Abutment	AB01	0+00.0000	N 0 00 00.00 W	75.0830	0.0000
Abutment	AB02	1+21.1670	N 14 09 12.96 W	75.0830	0.0000
End Bridge		1+21.1670	N 14 09 12.96 W	75.0830	0.0000

BEAM DATA

No	ID	Length	Loc-start	Loc-end	Area	M(1xx)	Height	Yb	B-topg	B-trib
1	FIB-78	112.902	11.333	11.689	1100.6	904567.0	78.00	34.60	48.00	11.759
2	FIB-78	116.209	13.115	13.525	1100.6	904567.0	78.00	34.60	48.00	13.101
3	FIB-78	119.516	13.115	13.525	1100.6	904567.0	78.00	34.60	48.00	13.101
4	FIB-78	122.823	13.115	13.525	1100.6	904567.0	78.00	34.60	48.00	13.102
5	FIB-78	126.130	13.115	13.525	1100.6	904567.0	78.00	34.60	48.00	13.102
6	FIB-78	129.437	13.115	13.525	1100.6	904567.0	78.00	34.60	48.00	10.852

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
--	-----------------	---------------	-------

Units: U.S. Units


Design Code: AASHTO LRFD

Printed on: September 11, 2014 @ 9:03 A.M.

Units: U.S. Units

Design Code: AASHTO LRFD

Printed on: September 11, 2014 @ 9:03 A.M.



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Sheet # 3

Job #

Designed KSM

Date Sept/9/2013

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Date


File Name: Span11EB_Modified Spacing.csl

	Precast	Precast	C.I.P
	Release	Final	
f'c (ksi)	6.000	7.500	5.500
Wc (pcf)	150.000	150.000	150.000
Ec (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff. (1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES

PRESTRESSED STEEL:
6/10-270K-L, Low relaxation strands
Depressed at 0.40L
Strand Diameter = 0.600 in
Tensile Strength(fpu) = 270.0 ksi
Use transformed strand and rebar: Strand Only

REINFORCING STEEL:
Tension/Shear steel: fy = 60.0 ksi Es = 29000 ksi fs = 24.0 ksi



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Sheet # 4

Job #

Designed KSM

Date Sept/9/2013

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Date

File Name: Span11EB_Modified Spacing.csl

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.000
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Slay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.125	0.000	0.125	112.902	Add'l Build-Up
1	1	DC	Line	0.091	0.000	0.091	112.902	SJP
1	2	DC	Line	0.125	0.000	0.125	116.209	Add'l Build-Up
1	2	DC	Line	0.182	0.000	0.182	116.209	SJP
1	3	DC	Line	0.125	0.000	0.125	119.516	Add'l Build-Up
1	3	DC	Line	0.182	0.000	0.182	119.516	SJP
1	4	DC	Line	0.125	0.000	0.125	122.823	Add'l Build-Up
1	4	DC	Line	0.182	0.000	0.182	122.823	SJP
1	5	DC	Line	0.125	0.000	0.125	126.130	Add'l Build-Up
1	5	DC	Line	0.182	0.000	0.182	126.130	SJP
1	6	DC	Point	0.125	0.000	-	-	Add'l Build-Up
1	6	DC	Point	0.091	0.000	-	-	SJP


DIAPHRAGM LOADS - NONE

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	112.902	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	112.902	Right Curb Weight
1	DC	Line	0.485	0.000	0.485	112.902	Median Barrier

TEMPERATURE LOADS - NONE


		Sheet #	5
		Job #	
Program: LEAP® CONSPAN® V8i (SELECTseries 5)		Designed	KSM
Version: 12.01.00.57		Date	Sept/9/2013
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www.bentley.com		Date	
File Name: Span11EB_Modified Spacing.csl			

LIVE LOADS

Live load deflection: not included.

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE

		Sheet #	6
		Job #	
Program: LEAP® CONSPAN® V8i (SELECTseries 5)		Designed	KSM
Version: 12.01.00.57		Date	Sept/9/2013
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www.bentley.com		Date	
File Name: Span11EB_Modified Spacing.csl			

ANALYSIS DATA

ANALYSIS PARAMETERS DATA

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):


Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)
Service I:	1.00	1.00	-	1.00	-
Service II:	0.80	1.00	-	1.00	-
Strength I:	1.75	1.25	0.90	1.50	0.65
Fatigue I:	1.50	-	-	-	-

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



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PROJECT DESIGN PARAMETERS

Trans len multi:	Bonded 1.00
	Debonded 1.00
Dev len multi:	Bonded 1.60
	Debonded 2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vw:	INCLUDED

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

	PRECAST	DECK
Strength	6.00	ksi
Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00 %	ksi
Max tens	-0.23	ksi
Max tens, wireinf	-0.93	ksi
Center	70.00 %	ksi
Max tens	-0.23	ksi
Max tens, wireinf	-0.59	ksi


STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50	ksi
Elasticity	4490.96	ksi
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



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PROJECT DESIGN PARAMETERS

Trans len multi:	Bonded 1.00
	Debonded 1.00
Dev len multi:	Bonded 1.60
	Debonded 2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vw:	INCLUDED

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

	PRECAST	DECK
Strength	6.00	ksi
Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00 %	ksi
Max tens	-0.23	ksi
Max tens, wireinf	-0.93	ksi
Center	70.00 %	ksi
Max tens	-0.23	ksi
Max tens, wireinf	-0.59	ksi


STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50	ksi
Elasticity	4490.96	ksi
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



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PROPERTIES

Span:1, Beam:1
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48.000 in	Bot 38.000 in		
thick	Top 3.000 in	Bot 7.000 in		
Stems	No 1			
	Top 7.000 in			
	Bot 7.000 in			
Shear width	7.000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RL 11.33/13.11 ft
	End LL/RL 11.69/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Exterior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch:	
Thickness	1.000 in
Width	48.000 in

GENERAL LOAD DATA:


DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.125	0.000	0.125	112.902	Add'l Build-Up
DC	Line	0.091	0.000	0.091	112.902	SJP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:



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Overall length	112.902 ft
Release length	112.902 ft
Design length	112.902 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2d): YES

Location	+ve		Moment		Shear	
	2+Lane	1Lane	2+Lane	1Lane	2+Lane	1Lane
0.0L	1.119	1.036(%)	1.084	1.036(%)	1.084	1.036(%)
0.1L	1.128	1.044(%)	1.095	1.044(%)	1.095	1.044(%)
0.2L	1.138	1.053(%)	1.106	1.053(%)	1.106	1.053(%)
0.3L	1.148	1.061(%)	1.116	1.061(%)	1.116	1.061(%)
0.4L	1.158	1.070(%)	1.127	1.070(%)	1.127	1.070(%)
0.5L	1.168	1.078(%)	1.138	1.078(%)	1.138	1.078(%)
0.6L	1.177	1.086(%)	1.149	1.086(%)	1.149	1.086(%)
0.7L	1.187	1.095(%)	1.159	1.095(%)	1.159	1.095(%)
0.8L	1.197	1.103(%)	1.170	1.103(%)	1.170	1.103(%)
0.9L	1.207	1.111(%)	1.181	1.111(%)	1.181	1.111(%)
1.0L	1.217	1.120(%)	1.191	1.120(%)	1.191	1.120(%)


(%) Lever rule (C4.6.2.2.1)

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	0.75
Compression controlled sections	0.90
Tension controlled sections	
Flexure Prestressed	0.75
Compression controlled sections	1.00
Tension controlled sections	
Shear	0.90

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PRECAST SECTION PROPERTIES:

Area	1100.6	in ²
Total Height	78.00	in
Mom. of Inertia (Ixx)	904567	in ⁴
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of Inertia (Iyy)	82367.0	in ⁴
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in ²	in	in ⁴	in	pcf	in
0.0L	75.08	2397.8	2129.34	87.5	2160114	58.01	150.0	135.7
0.1L	75.08	2407.4	2137.23	87.5	2165172	58.11	150.0	136.8
0.2L	75.08	2417.0	2145.13	87.5	2170192	58.20	150.0	137.9
0.3L	75.08	2426.6	2153.02	87.5	2175177	58.29	150.0	138.9
0.4L	75.08	2436.2	2160.92	87.5	2180125	58.38	150.0	140.0
0.5L	75.08	2445.8	2168.82	87.5	2185038	58.47	150.0	141.1
0.6L	75.08	2455.4	2176.71	87.5	2189915	58.56	150.0	142.2
0.7L	75.08	2465.0	2184.61	87.5	2194758	58.65	150.0	143.3
0.8L	75.08	2474.7	2192.50	87.5	2199565	58.74	150.0	144.4
0.9L	75.08	2484.3	2200.40	87.5	2204339	58.83	150.0	145.4
1.0L	75.08	2493.9	2208.29	87.5	2209079	58.91	150.0	146.5

(#) Area, Ixx, and Ycg Of Total Section using Ecf/Ec = 0.8563


Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast: (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	11.29	22.58	33.87	45.16	56.45
Area, Yb, Ml(XX), Composite: (At Final, using Ec = 4491.0ksi)	in ² in in ⁴	in ² in ² in ⁴	in ² in ² in ⁴	in ² in ² in ⁴	in ² in ² in ⁴	in ² in ² in ⁴	in ² in ² in ⁴	in ² in ² in ⁴
	1100.6 34.60 904567	1148.2 33.43 940604	1148.2 33.43 940695	1148.2 33.42 941790	1148.2 33.39 943438	1148.2 33.36 945120	1148.2 33.34 946839	1148.2 33.34 946839
	2129.3 58.01 2160114	2171.1 57.02 2268800	2171.1 57.02 2268951	2179.0 57.11 2276208	2186.9 57.19 2284319	2194.8 57.27 2292433	2202.7 57.35 2300550	2210.6 57.45 2305873

Span:1 Beam:1

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

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	PRECAST	
Strength	6.00	ksi
Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00 %	
Max tens	-0.23	ksi
Center	w/reinf -0.93	ksi
Max tens	70.00 %	
Max tens	-0.23	ksi
Max tens	w/reinf -0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50	ksi
Elasticity	4490.96	ksi
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50	ksi
Max tens	3.30	ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

	PRECAST	DECK
Max comp	3.38	ksi
Max tens	2.47	ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00	ksi
Max tens	-	ksi


SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52	ksi
Max tens	-0.45	ksi

Span:1 Beam:1
 PRESTRESSED STEEL:
 36 strands, 6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L (45.16 ft from member end)

END PATTERN (Ycg = 6.67 in):

12 @ 3.000 in	14 @ 5.000 in	1 @ 7.000 in	5 @ 13.000 in
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SHEAR/MOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 1, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.29	22.58	33.87	56.45
Self wt. :	M	0.0	189.0	228.3	657.6	1169.1	1534.4	1753.6
(Max)	V	64.7	61.3	60.5	51.8	38.8	25.9	12.9
DL-Prec. :	M	0.0	35.6	43.0	123.9	220.3	289.1	330.4
DC(Max)	V	12.2	11.5	11.4	9.8	7.3	4.9	2.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	211.0	254.9	735.2	1310.3	1724.1	1975.3
Haunch (Max)	V	72.2	68.4	67.6	58.1	43.8	29.5	15.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	-0.0	41.8	50.5	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.6	12.5	10.7	8.0	5.3	2.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	-0.0	444.9	537.6	1550.5	2757.9	3612.4	4139.0
LL + :	V	137.8	133.1	132.1	120.2	102.2	83.9	57.3
LL + :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M	137.8	133.2	132.2	120.6	103.9	87.7	72.1
Total :	M+	-0.0	439.6	530.4	1503.0	2587.4	3273.9	3584.3
Total :	V	300.2	287.0	284.2	250.4	200.2	149.4	90.4
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	300.2	287.1	284.3	250.9	201.9	153.3	105.2
Total :	M	0.0	916.9	1107.2	3165.1	5545.5	7160.7	8031.3

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	67.74	79.03	90.32	101.61	109.26	112.90
Self wt. :	M	1753.6	1534.4	1169.1	657.6	228.3	189.0
(Max)	V	12.9	25.9	38.8	51.8	60.5	61.3
DL-Prec. :	M	330.4	289.1	220.3	123.9	43.0	35.6
DC(Max)	V	2.4	4.9	7.3	9.8	11.4	11.5
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	1985.1	1741.2	1329.9	749.9	260.7	215.8
Haunch (Max)	V	14.2	29.0	43.9	58.9	69.1	70.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	50.5	41.8
DC(Max)	V	2.7	5.3	8.0	10.7	12.5	12.6
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	4209.1	3735.7	2900.2	1658.2	581.5	481.8



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
LL + :	V	58.4	87.1	108.2	144.3	145.6	151.4
	M-	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	M	73.5	91.1	110.0	130.0	144.5	145.7
Total :	M	3645.0	3385.6	2721.0	1607.4	573.7	475.9
	M+	8665.8	7639.6	5877.9	3335.0	1164.1	964.0
Total :	V	90.7	152.2	206.2	260.7	297.8	301.0
	M-	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	M	105.8	156.2	208.0	261.1	298.0	301.1
Total :	M	8101.7	7289.5	5698.6	3284.1	1156.3	958.1

REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	64.7	64.7
Deck+Haunch	72.2	74.0
Diaphragm	0.0	0.0
DL-Prec.(DC)	12.2	12.2
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	80.1	80.1
DL-Comp.(DW)	0.0	0.0
Live	115.6	105.1
Pedestrian	0.0	0.0

Upward reactions are positive.

Live Load reactions are per lane with no distribution factor and no impact.


Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).

Non-composite load types are per beam.

Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 1, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.29	22.58	33.87	56.45
Self wt. :	M	0.0	189.0	228.3	657.6	1169.1	1534.4	1753.6
(Max)	V	64.7	61.3	60.5	51.8	38.8	25.9	12.9
DL-Prec. :	M	0.0	35.6	43.0	123.9	220.3	289.1	330.4
DC(Max)	V	12.2	11.5	11.4	9.8	7.3	4.9	2.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	211.0	254.9	735.2	1310.3	1724.1	1975.3
Haunch (Max)	V	72.2	68.4	67.6	58.1	43.8	29.5	15.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	761.5	919.8	2641.6	4669.3	6117.1	6966.1
	V	253.5	242.3	239.9	211.3	168.7	119.6	76.4
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	253.5	242.3	239.9	211.3	168.7	125.9	82.8
	M	0.0	761.5	919.8	2641.6	4669.3	6075.6	6993.8

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	67.74	79.03	90.32	101.61	109.26	112.90
Self wt. :	M	1753.6	1534.4	1169.1	657.6	228.3	189.0
(Max)	V	12.9	25.9	38.8	51.8	60.5	61.3
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	330.4	289.1	220.3	123.9	43.0	35.6
DC(Max)	V	2.4	4.9	7.3	9.8	11.4	11.5
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	1985.1	1741.2	1329.9	749.9	260.7	215.8
Haunch (Max)	V	14.2	29.0	43.9	58.9	69.1	70.0
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	50.5	41.8
(Min)	V	2.7	5.3	8.0	10.7	12.5	12.6
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	2558.6	2300.8	1793.0	1042.4	368.9	305.8
	V	44.0	55.7	74.1	86.2	94.5	95.2
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	50.5	62.2	74.1	86.2	94.5	95.2
	M	2443.7	2258.0	1793.0	1042.4	368.9	305.8
Total :	M+	7015.3	6204.7	4770.6	2719.2	951.5	788.0
	V	76.3	120.8	172.2	217.3	248.0	250.6
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	82.8	127.3	172.2	217.3	248.0	250.6
	M	6900.4	6161.9	4770.6	2719.2	951.5	788.0




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PROPERTIES
Span:1, Beam:2
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.11/13.11 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8,500 in
Haunch: Thickness	1,000 in
Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST


UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.125	0.000	0.125	116.209	Add'l Build-Up
DC	Line	0.182	0.000	0.182	116.209	SIP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	in ²
------	--------	-----------------



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Overall length	116.209 ft
Release length	116.209 ft
Design length	116.209 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d): YES

Location	+ve		Moment		Shear	
	2-Lane	1-Lane	1-Lane	2-Lane	1-Lane	1-Lane
0.0L	0.991	0.991	0.650	1.171	0.886	0.886
0.1L	0.991	0.991	0.650	1.171	0.886	0.886
0.2L	0.991	0.991	0.650	1.170	0.886	0.886
0.3L	0.991	0.991	0.650	1.170	0.886	0.886
0.4L	0.991	0.991	0.650	1.170	0.886	0.886
0.5L	0.991	0.991	0.650	1.170	0.885	0.885
0.6L	0.991	0.991	0.650	1.170	0.885	0.885
0.7L	0.990	0.990	0.650	1.170	0.885	0.885
0.8L	0.990	0.990	0.650	1.169	0.885	0.885
0.9L	0.990	0.990	0.650	1.169	0.885	0.885
1.0L	0.990	0.990	0.649	1.169	0.885	0.885

Pedestrian	0.167	(Calculated)
Comp. DC	0.167	(Calculated)
Comp. DW	0.167	(Calculated)


Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Area	1100.6	in ²
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MID PATTERN (Vcg = 4.17 in):

(A) Draped:

5 @ 3.000 in 3 @ 5.000 in 1 @ 7.000 in

(B) Straight:

12 @ 3.000 in 14 @ 5.000 in 1 @ 7.000 in

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	7.812 in ²
Trans. Len bonded	3.000 ft
Trans. Len debonded	3.000 ft
Dev. Len bonded	11.620 ft
Dev. Len debonded	14.525 ft
Holddown Force	7.089 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	1581.9 kips
Beam Shring (PL/AE)	0.478 in

Span:1 Beam:2

ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	Beam Vol(C.V.) (LB)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
4183.644	740	3095.897	32.896	133228.609	645.926
					0.000

Span:1 Beam:2

REINFORCING STEEL:

Tension steel:	
fy	60.0 ksi
Es	29000 ksi
fs	24.0 ksi


Stirrups:

# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	0.5873	No
2	US#4(M13)	60.0	0.40	9.00	0.5873	2.3885	No
2	US#4(M13)	60.0	0.40	12.00	2.3885	6.0531	No
2	US#4(M13)	60.0	0.40	15.00	6.0531	14.0810	No
2	US#4(M13)	60.0	0.40	18.00	14.0810	39.2612	No
2	US#4(M13)	60.0	0.40	21.00	39.2612	42.7290	No
2	US#4(M13)	60.0	0.40	24.00	42.7290	73.4797	No
2	US#4(M13)	60.0	0.40	21.00	73.4797	76.9475	No
2	US#4(M13)	60.0	0.40	18.00	76.9475	102.1276	No

Units: U.S. Units

Design Code: AASHTO LRFD

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# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	15.00	102.1276	110.1555	No
2	US#4(M13)	60.0	0.40	12.00	110.1555	113.8202	No
2	US#4(M13)	60.0	0.40	9.00	113.8202	115.6214	No
2	US#4(M13)	60.0	0.40	6.00	115.6214	116.2087	No

LOSSES

Note: Values are calculated at Midspan

Str. area	7.8120 in ²
Ycg	4.17 in
P. init	1581.9 kips
Ecc	30.43 in
Days to release	0.75
Rel. Humid (RH)	75.0 %
Es	28500.0 ksi
Eci	4017 ksi

AASHTO LOSSES

Elastic Shortening ** 13.46 ksi (Eq 5.9.5.2.3a-1), (fcgp = 1.897 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads		-6.93 ksi	0.00 ksi
due to Composite Loads		-0.70 ksi	0.00 ksi
due to Live Loads		-5.11 ksi	0.00 ksi

Time Dependent Losses (Approximate Method (Art.5.9.5.3))

	Initial	Final
Steel relaxation	0.00 ksi	2.40 ksi
Concrete shrinkage	0.00 ksi	8.14 ksi
Concrete creep	0.00 ksi	9.75 ksi
Sub-total	13.46 ksi	7.55 ksi
Total Prestress Losses		21.01 ksi
		(3.73 %)
		(10.38 %)

Prestressing Stress Limit Check (Table 5.9.3.1)

Initial fpi = 202.5 ksi < 0.75 fpu, OK


Initial fpe = 181.5 ksi < 0.80 fpy, OK

** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.

Units: U.S. Units

Design Code: AASHTO LRFD

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SHEAR/MOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 2, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.62	23.24	34.86	58.10
Self wt. :	M	0.0	194.7	235.2	696.7	1238.6	1625.6	1857.9
(Max)	V	66.6	63.2	62.4	53.3	40.0	26.6	13.3
DL-Prec. :	M	-0.0	52.1	63.0	186.6	331.7	435.3	497.5
DC(Max)	V	17.8	16.9	16.7	14.3	10.7	7.1	3.6
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	245.0	296.0	876.6	1558.3	2045.2	2337.2
Haunch (Max)	V	83.8	79.5	78.6	67.0	50.3	33.5	16.7
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	-0.0	40.6	49.1	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.7	12.5	10.7	8.0	5.3	2.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	-0.0	382.6	462.1	1362.2	2401.6	3118.4	3542.3
LL + :	V	148.8	143.5	142.4	128.5	108.2	87.9	59.5
LL + :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M	148.8	143.7	142.5	128.9	110.0	92.0	74.9
Total :	M+	-0.0	378.0	456.0	1320.4	2253.2	2826.2	3067.5
Total :	V	330.4	315.8	312.6	273.8	217.2	160.5	95.8
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	V	330.4	315.9	312.8	274.2	219.0	164.6	111.2
Total :	M	-0.0	910.4	1099.3	3225.6	5640.1	7271.4	8147.7

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	69.73	81.35	92.97	104.59	112.56	113.21
Self wt. :	M	1857.9	1625.6	1238.6	696.7	235.2	194.7
(Max)	V	13.3	26.6	40.0	53.3	62.4	63.2
DL-Prec. :	M	497.5	435.3	331.7	186.6	63.0	52.1
DC(Max)	V	3.6	7.1	10.7	14.3	16.7	16.9
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2336.9	2044.6	1557.7	876.2	295.8	244.8
Haunch (Max)	V	16.8	33.5	50.3	67.0	78.5	79.4
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	49.1	40.6
DC(Max)	V	2.7	5.3	8.0	10.7	12.5	12.7
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	3541.2	3116.5	2399.4	1360.5	461.5	382.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
LL + I :	V	59.5	87.9	108.1	128.3	142.2	143.3
LL + I :	M-	0.0	0.0	0.0	0.0	-0.0	-0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M	74.9	91.9	109.9	128.8	142.4	143.5
Total :	M	3066.6	2824.5	2251.1	1318.8	455.4	377.5
Total :	M+	8621.0	7561.2	5785.7	3265.3	1104.6	914.3
Total :	M-	95.8	160.5	217.1	273.6	312.4	315.5
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	111.2	164.6	218.9	274.0	312.5	315.7
Total :	M	8146.4	7269.2	5637.4	3223.6	1098.5	909.7

REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	66.6	66.6
Deck+Haunch	83.8	83.8
Diaphragm	0.0	0.0
DL-Prec.(DC)	17.8	17.8
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	80.1	80.1
DL-Comp.(DW)	0.0	0.0
Live	105.1	105.3
Pedestrian	0.0	0.0

Upward reactions are positive.

Live Load reactions are per lane with no distribution factor and no impact.


Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).

Non-composite load types are per beam.

Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 2, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.62	23.24	34.86	58.10
Self wt. :	M	0.0	194.7	235.2	696.7	1238.6	1625.6	1857.9
(Max)	V	66.6	63.2	62.4	53.3	40.0	26.6	13.3
DL-Prec. :	M	-0.0	52.1	63.0	186.6	331.7	435.3	497.5
DC(Max)	V	17.8	16.9	16.7	14.3	10.7	7.1	3.6
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	245.0	296.0	876.6	1558.3	2045.2	2337.2
Haunch (Max)	V	83.8	79.5	78.6	67.0	50.3	33.5	16.7
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
(Min)	12.0	24.0	36.0	48.0	56.2	56.9	60.0
DL-Prec :	621.9	544.1	414.6	233.2	78.7	65.2	-0.0
DC(Max)	4.5	8.9	13.4	17.8	20.9	21.1	22.3
DL-Prec :	447.8	391.8	298.5	167.9	56.7	46.9	-0.0
DC(Min)	3.2	6.4	9.6	12.8	15.0	15.2	16.1
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	2921.1	2555.8	1947.1	1095.2	369.8	306.0	0.0
Haunch (Max)	21.0	41.9	62.8	83.8	98.1	99.3	104.7
Deck + :	2103.2	1840.2	1401.9	788.5	266.2	220.3	0.0
Haunch (Min)	15.1	30.2	45.2	60.3	70.7	71.5	75.4
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	484.5	423.9	323.0	181.7	61.3	50.8	-0.0
DC(Max)	3.3	6.7	10.0	13.4	15.6	15.8	16.7
DL-Comp :	348.8	305.2	232.5	130.8	44.2	36.6	-0.0
DC(Min)	2.4	4.8	7.2	9.6	11.3	11.4	12.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	6197.1	5453.9	4198.9	2380.9	807.5	668.5	-0.0
LL + I :	104.1	153.8	189.2	224.6	248.9	250.8	260.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	131.0	160.9	192.3	225.4	249.1	251.0	260.0
M	5366.6	4942.8	3939.4	2307.9	796.9	660.6	-0.0
Total :	12546.8	11009.8	8431.9	4761.9	1611.5	1333.8	0.0
Total :	149.5	244.6	325.4	406.2	461.6	466.1	486.9
Total :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	176.4	251.7	328.5	407.0	461.8	466.3	486.9
M	11716.3	10498.7	8172.3	4688.9	1600.8	1325.9	0.0

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	83.3	83.3
Deck+Haunch	104.8	104.7
Diaphragm	0.0	0.0
DL-Prec (DC)	22.3	22.3
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	100.1	100.1
DL-Comp (DW)	0.0	0.0
Live	184.0	184.3



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Load Type	Left Support	Right Support
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.


SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 2, FATIGUE I
Shears: kips, Moments: kft


	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft							
Self Wt. :	0.00	3.00	3.65	11.62	23.24	34.86	46.48	58.10
(Max)	0.00	194.7	235.2	696.7	1238.6	1625.6	1857.9	1935.3
Self Wt. :	66.6	63.2	62.4	53.3	40.0	26.6	13.3	0.0
(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	-0.00	52.1	63.0	186.6	331.7	435.3	497.5	518.2
DC(Max)	17.8	16.9	16.7	14.3	10.7	7.1	3.6	0.0
DL-Prec :	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DC(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deck + :	0.00	245.0	296.0	876.6	1558.3	2045.2	2337.2	2434.4
Haunch (Max)	83.8	79.5	78.6	67.0	50.3	33.5	16.7	0.0
Deck + :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Haunch (Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	-0.00	40.6	49.1	145.3	258.4	339.1	387.6	403.7
DC(Max)	13.4	12.7	12.5	10.7	8.0	5.3	2.7	0.0
DL-Comp :	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DC(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	0.00	173.0	208.9	609.8	1056.8	1366.3	1530.9	1532.8
LL + I :	77.9	75.5	75.0	68.7	59.5	45.1	35.9	26.7
LL + I :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	77.9	75.5	75.0	68.7	59.5	50.4	41.2	32.0
Vmx	0.00	173.0	208.9	609.8	1056.8	1340.9	1462.2	1420.7
M	0.00	173.0	208.9	609.8	1056.8	1340.9	1462.2	1420.7

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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	705.4	852.2	2515.1	4443.7	5811.5	6611.1
	V	259.5	247.8	245.2	214.0	168.5	117.7	72.2
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	259.5	247.8	245.2	214.0	168.5	123.0	77.5
	M	0.0	705.4	852.2	2515.1	4443.7	5786.1	6542.3

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	69.73	81.35	92.97	104.59	112.56	113.21	116.21
Self wt. :	M	1857.9	1625.6	1238.6	696.7	235.2	194.7
(Max)	V	13.3	26.6	40.0	53.3	62.4	63.2
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	497.5	435.3	331.7	186.6	63.0	52.1
DC(Max)	V	3.6	7.1	10.7	14.3	16.7	16.9
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2336.9	2044.6	1557.7	876.2	295.8	244.8
Haunch (Max)	V	16.8	33.5	50.3	67.0	78.5	79.4
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	49.1	40.6
(Min)	V	2.7	5.3	8.0	10.7	12.5	12.7
DC(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	1530.5	1365.6	1055.9	609.2	208.6	172.8
	V	35.9	45.0	59.5	68.6	74.9	75.4
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	41.2	50.3	59.5	68.6	74.9	75.4
	M	1461.8	1340.2	1055.9	609.2	208.6	172.8
Total :	M+	6610.3	5810.3	4442.3	2514.0	851.8	705.1
	V	72.2	117.7	168.4	213.9	245.1	247.6
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	77.5	123.0	168.4	213.9	245.1	247.6
	M	6541.6	5784.9	4442.3	2514.0	851.8	705.1

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PROPERTIES
Span:1, Beam:3
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48.000 in	Bot 38.000 in		
thick	Top 3.000 in	Bot 7.000 in		
Stems	No 1			
	Top 7.000 in			
	Bot 7.000 in			
Shear width	7.000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.11/13.11 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch: Thickness	1.000 in
Width	48.000 in

GENERAL LOAD DATA:


DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.125	0.000	119.516		Add'l Build-Up
DC	Line	0.182	0.000	0.182	119.516	SIP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:



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Overall length	119.516 ft
Release length	119.516 ft
Design length	119.516 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d): YES

Location	+ve		Moment		Shear	
	2+Lane	1Lane	1Lane	2+Lane	1Lane	1Lane
0.0L	0.984	0.644	1.171	1.171	0.886	0.886
0.1L	0.984	0.644	1.171	1.171	0.886	0.886
0.2L	0.983	0.643	1.170	1.170	0.886	0.886
0.3L	0.983	0.643	1.170	1.170	0.886	0.886
0.4L	0.983	0.643	1.170	1.170	0.886	0.886
0.5L	0.983	0.643	1.170	1.170	0.885	0.885
0.6L	0.983	0.643	1.170	1.170	0.885	0.885
0.7L	0.983	0.643	1.170	1.170	0.885	0.885
0.8L	0.983	0.643	1.169	1.169	0.885	0.885
0.9L	0.982	0.643	1.169	1.169	0.885	0.885
1.0L	0.982	0.643	1.169	1.169	0.885	0.885

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Area	1100.6 in ²
------	------------------------

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MID PATTERN (Vcg = 4.38 in):

(A) Draped:

5 @ 3,000 in | 3 @ 5,000 in | 1 @ 7,000 in

(B) Straight:

12 @ 3,000 in | 14 @ 5,000 in | 4 @ 7,000 in

Strand Diameter	0.600	in
Strand Area	0.217	in ²
Total Strand Area	8.463	in ²
Trans. Len. bonded	3,000	ft
Trans. Len. debonded	3,000	ft
Dev. Len. bonded	11.641	ft
Dev. Len. debonded	14.551	ft
Holddown Force	6.893	kips
Tensile Strength(fpu)	270.0	ksi
Initial Prestress = 0.75fpu	202.5	ksi
Initial Pull	1713.8	kips
Beam Shrink (PL/AE)	0.531	in

Span:1, Beam:3

ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	Beam Vol(C.V.) (LB)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
4661.241	740	3449.319	33.832	137020.031	601.684
					0.000

Span:1, Beam:3

REINFORCING STEEL:

Tension steel:	
fy	60.0 ksi
Es	29000 ksi
fs	24.0 ksi

Stirrups:

# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	0.7021	No
2	US#4(M13)	60.0	0.40	9.00	0.7021	2.4573	No
2	US#4(M13)	60.0	0.40	12.00	2.4573	6.4764	No
2	US#4(M13)	60.0	0.40	15.00	6.4764	13.3232	No
2	US#4(M13)	60.0	0.40	18.00	13.3232	17.8048	No
2	US#4(M13)	60.0	0.40	21.00	17.8048	21.1709	No
2	US#4(M13)	60.0	0.40	24.00	21.1709	29.8583	No
2	US#4(M13)	60.0	0.40	21.00	29.8583	39.1037	No
2	US#4(M13)	60.0	0.40	24.00	39.1037	80.4121	No

Units: U.S. Units

Design Code: AASHTO LRFD

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# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	21.00	80.4121	89.6572	No
2	US#4(M13)	60.0	0.40	24.00	89.6572	98.3448	No
2	US#4(M13)	60.0	0.40	21.00	98.3448	101.7110	No
2	US#4(M13)	60.0	0.40	18.00	101.7110	106.1923	No
2	US#4(M13)	60.0	0.40	15.00	106.1923	113.0394	No
2	US#4(M13)	60.0	0.40	12.00	113.0394	117.0584	No
2	US#4(M13)	60.0	0.40	9.00	117.0584	118.8136	No
2	US#4(M13)	60.0	0.40	6.00	118.8136	119.5157	No

LOSSES

Note: Values are calculated at Midspan

Str. area	8.4630	in ²
Ycg	4.38	in
P. Init	1713.8	kips
Ecc	30.22	in
Days to release	0.75	%
Rel. Humid (RH)	75.0	%
Es	28500.0	ksi
Eci	4017	ksi

AASHTO LOSSES

Elastic Shortening ** 14.41 ksi (Eq 5.9.5.2.3a-1), (fcgpp= 2.031 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads	-7.23	ksi	0.00
due to Composite Loads	-0.70	ksi	0.00
due to Live Loads	-5.02	ksi	0.00

Time Dependent Losses (Approximate Method (Art.5.9.5.3))

	Initial	Final
Steel relaxation	0.00	ksi
Concrete shrinkage	0.00	ksi
Concrete creep	0.00	ksi
Sub-total	14.41	ksi
Total Prestress Losses		(7.11 %)
		22.57
		8.16
		(4.03 %)

Prestressing Stress Limit Check (Table 5.9.3.1)

Initial fpi = 202.5 ksi < 0.75 fpu, OK


Initial fpe = 179.9 ksi < 0.80 fpy, OK

** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.

Units: U.S. Units

Design Code: AASHTO LRFD

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SHEAR/MOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.95	23.90	35.85	59.76
Self wt. :	M	0.0	200.4	242.2	736.9	1310.1	1719.5	2047.0
(Max)	V	68.5	65.1	64.3	54.8	41.1	27.4	13.7
DL-Prec. :	M	-0.0	53.7	64.8	197.3	350.8	460.4	526.2
DC(Max)	V	18.3	17.4	17.2	14.7	11.0	7.3	3.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	252.1	304.7	927.2	1648.3	2163.3	2472.2
Haunch (Max)	V	86.2	81.9	80.9	69.0	51.7	34.5	17.2
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	-0.0	39.5	47.8	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.7	12.5	10.7	8.0	5.3	2.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	-0.0	369.4	446.3	1351.6	2383.0	3094.3	3514.9
LL + :	V	148.8	143.7	142.6	128.5	108.2	87.9	59.5
LL + :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M	148.8	143.8	142.7	128.9	110.0	92.0	74.9
Total :	M	-0.0	365.0	440.5	1310.2	2235.7	2804.3	3043.8
Total :	V	0.0	915.1	1105.7	3358.5	5950.6	7716.6	8865.9
Total :	M	335.2	320.7	317.6	277.6	220.0	162.5	96.8
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	335.2	320.8	317.8	278.1	221.8	166.5	112.2
Total :	M	0.0	910.7	1099.9	3317.0	5803.3	7486.7	8394.9
Total :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	71.71	83.66	95.61	107.56	115.87	116.52
Self wt. :	M	1965.1	1719.5	1310.1	736.9	242.2	200.4
(Max)	V	13.7	27.4	41.1	54.8	64.3	65.1
DL-Prec. :	M	526.2	460.4	350.8	197.3	64.8	53.7
DC(Max)	V	3.7	7.3	11.0	14.7	17.2	17.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2471.8	2162.7	1647.7	926.8	304.5	252.0
Haunch (Max)	V	17.2	34.5	51.7	68.9	80.9	81.8
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	47.8	39.5
DC(Max)	V	2.7	5.3	8.0	10.7	12.5	12.7
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	3513.8	3092.4	2380.9	1350.0	445.7	368.9
LL + :	M-	0.0	0.0	0.0	0.0	0.0	0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	59.5	87.9	108.1	128.3	142.4	143.5
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	74.9	91.9	109.9	128.8	142.5	143.6
DC(Max)	V	3042.9	2802.7	2233.7	1308.6	439.9	364.5
DL-Prec. :	M	8864.6	7774.2	5947.8	3356.4	1104.9	914.4
DW(Max)	V	96.8	162.4	219.9	277.4	317.4	320.5
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	112.2	166.5	221.7	277.9	317.5	320.6
(Max)	V	8393.7	7484.4	5800.7	3315.0	1099.1	910.1
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	8393.7	7484.4	5800.7	3315.0	1099.1	910.1
LL + :	M-	0.0	0.0	0.0	0.0	0.0	0.0

REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	68.5	68.5
Deck+Haunch	86.2	86.2
Diaphragm	0.0	0.0
DL-Prec.(DC)	18.3	18.3
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	80.1	80.1
DL-Comp.(DW)	0.0	0.0
Live	105.1	105.3
Pedestrian	0.0	0.0

Upward reactions are positive.

Live Load reactions are per lane with no distribution factor and no impact.


Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).

Non-composite load types are per beam.

Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	11.95	23.90	35.85	59.76
Self wt. :	M	0.0	200.4	242.2	736.9	1310.1	1719.5	2047.0
(Max)	V	68.5	65.1	64.3	54.8	41.1	27.4	13.7
DL-Prec. :	M	-0.0	53.7	64.8	197.3	350.8	460.4	526.2
DC(Max)	V	18.3	17.4	17.2	14.7	11.0	7.3	3.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	252.1	304.7	927.2	1648.3	2163.3	2472.2
Haunch (Max)	V	86.2	81.9	80.9	69.0	51.7	34.5	17.2
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
(Min)	12.3	24.7	37.0	49.3	57.9	58.6	61.7
DL-Prec :	657.8	575.6	438.5	246.7	81.1	67.1	-0.0
DC(Max)	4.6	9.2	13.8	18.3	21.5	21.8	22.9
DL-Prec :	473.6	414.4	315.7	177.6	58.4	48.3	-0.0
DC(Min)	3.3	6.6	9.9	13.2	15.5	15.7	16.5
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	3089.8	2703.4	2059.6	1158.4	380.7	315.0	0.0
Haunch (Max)	21.6	43.1	64.6	86.2	101.1	102.3	107.7
Deck + :	2224.6	1946.4	1482.9	834.1	274.1	226.8	0.0
Haunch (Min)	15.5	31.0	46.5	62.0	72.8	73.6	77.5
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	484.5	423.9	323.0	181.7	59.7	49.4	-0.0
DC(Max)	3.3	6.7	10.0	13.4	15.7	15.9	16.7
DL-Comp :	348.8	305.2	232.5	130.8	43.0	35.6	-0.0
DC(Min)	2.4	4.8	7.2	9.6	11.3	11.4	12.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	6149.2	5411.8	4166.6	2362.6	779.9	645.5	-0.0
LL + I :	104.1	153.8	189.2	224.6	249.2	251.1	260.0
LL + I :	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	131.0	160.9	192.3	225.4	249.4	251.3	260.0
M	5325.1	4904.7	3909.0	2290.1	769.7	637.9	-0.0
Total :	12837.6	11264.0	8625.3	4870.5	1604.0	1327.4	0.0
V	150.7	247.0	329.0	411.0	467.9	472.4	492.9
M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	177.6	254.1	332.1	411.8	468.2	472.6	492.9
M	12013.6	10756.9	8367.7	4798.1	1593.8	1319.8	-0.0

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	85.6	85.6
Deck+Haunch	107.8	107.7
Diaphragm	0.0	0.0
DL-Prec (DC)	22.9	22.9
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	100.1	100.1
DL-Comp (DW)	0.0	0.0
Live	184.0	184.3



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Load Type	Left Support	Right Support
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, FATIGUE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft							
Self wt. :	0.00	3.00	3.65	11.95	23.90	35.85	47.81	59.76
(Max)	0.00	200.4	242.2	736.9	1310.1	1719.5	1965.1	2047.0
Self wt. :	68.5	65.1	64.3	54.8	41.1	27.4	13.7	0.0
(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	-0.00	53.7	64.8	197.3	350.8	460.4	526.2	548.1
DC(Max)	18.3	17.4	17.2	14.7	11.0	7.3	3.7	0.0
DL-Prec :	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DC(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deck + :	0.00	252.1	304.7	927.2	1648.3	2163.3	2472.2	2575.0
Haunch (Max)	86.2	81.9	80.9	69.0	51.7	34.5	17.2	0.0
Deck + :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Haunch (Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	-0.00	39.5	47.8	145.3	258.4	339.1	387.6	403.7
DC(Max)	13.4	12.7	12.5	10.7	8.0	5.3	2.7	0.0
DL-Comp :	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DC(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	0.00	166.7	201.2	603.7	1046.1	1352.4	1515.4	1517.3
V	77.9	75.6	75.1	68.7	59.5	45.1	35.9	26.7
M-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vmx	77.9	75.6	75.1	68.7	59.5	50.4	41.2	32.0
M	0.00	166.7	201.2	603.7	1046.1	1327.3	1447.4	1406.4



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	712.4	860.7	2610.5	4613.7	6034.8	6866.5
	V	264.3	252.6	250.1	217.8	171.4	119.6	73.1
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	264.3	252.6	250.1	217.8	171.4	124.9	78.4
	M	0.0	712.4	860.7	2610.5	4613.7	6009.6	6798.4
								6980.2

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	71.71	83.66	95.61	107.56	115.87	116.52
Self wt. :	M	1965.1	1719.5	1310.1	736.9	242.2	200.4
(Max)	V	13.7	27.4	41.1	54.8	64.3	65.1
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	526.2	460.4	350.8	197.3	64.8	53.7
DC(Max)	V	3.7	7.3	11.0	14.7	17.2	17.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2471.8	2162.7	1647.7	926.8	304.5	252.0
Haunch (Max)	V	17.2	34.5	51.7	68.9	80.9	86.2
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	387.6	339.1	258.4	145.3	47.8	39.5
DC(Max)	V	2.7	5.3	8.0	10.7	12.5	12.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	1515.1	1351.8	1045.3	603.0	201.0	166.5
	V	35.9	45.0	59.5	68.6	75.0	75.5
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M	412.0	50.3	59.5	68.6	75.0	75.5
	Vmx	1447.0	1326.6	1045.3	603.0	201.0	166.5
Total :	M+	6865.8	6033.5	4612.2	2609.4	860.3	712.0
	V	73.2	119.6	171.3	217.7	250.0	252.5
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	78.5	124.9	171.3	217.7	250.0	252.5
	M	6797.8	6008.4	4612.2	2609.4	860.3	712.0




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DESIGN SUMMARY

Span: 1, Beam: 3, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	119.52
Release Length,	ft	119.52
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	39	
	Draped:	9
	Straight:	30
Concrete Strength:		6.0* ksi
	f'cd:	7.5 ksi
	f'c:	5.5 ksi
Initial losses:	7.11 %	
Final losses:	11.14 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.026	Trans	OK
Outer	15.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.573	Trans	
Precast Top w/ reinf. (tension)	-0.929			
Center	70.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.017	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	15329.00	13320.32	Location	Status
Ult. Moment (k.ft)			Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment				
Debonding Limits (Art. 5.11.4.3)				
Max. Debond per Row	40.00 %	0.00 %		Status
Max. Debond Total	25.00 %	0.00 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.500	Midspan	2.475	0.050	Midspan			
Precast Top	4.500	2.560	Midspan	3.375	2.207	Midspan			
Precast Bot	4.500	2.451	Transfer	3.375	2.560	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.295	Transfer						
Precast Bot	-0.520	-0.263	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.251	Midspan
Precast Bot							3.000	1.231	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 59.76 ft

	Release	Mult	Erection	Mult	Final
Prestress	3.274	1.80	5.893	2.20	7.203
Self Wt.	-1.380	1.85	-2.553	2.40	-3.312
Deck + Haunch			-1.553	2.30	-3.571
DL-Prec. (DC)			-0.330	3.00	-0.991
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.244	3.00	-0.731
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	1.894		1.214		-1.402

Positive values indicate upward deflection.

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Sheet # 1
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PROPERTIES

Span:1, Beam:4
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48.000 in	Bot 38.000 in		
thick	Top 3.000 in	Bot 7.000 in		
Stems	No 1			
	Top 7.000 in			
	Bot 7.000 in			
Shear width	7.000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.11/13.11 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch: Thickness	1.000 in
Width	48.000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.125	0.000	0.125	122.823	Addl Build-Up
DC	Line	0.182	0.000	0.182	122.823	SIP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	in ²
------	--------	-----------------

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Overall length	122.823 ft
Release length	122.823 ft
Design length	122.823 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.d): YES

Location	+ve		Moment		Shear	
	2-Lane	1-Lane	1-Lane	2-Lane	1-Lane	1-Lane
0.0L	0.976	0.637	0.637	1.171	0.886	0.886
0.1L	0.976	0.637	0.637	1.171	0.886	0.886
0.2L	0.976	0.637	0.637	1.170	0.886	0.886
0.3L	0.976	0.637	0.637	1.170	0.886	0.886
0.4L	0.976	0.637	0.637	1.170	0.886	0.886
0.5L	0.976	0.637	0.637	1.170	0.885	0.885
0.6L	0.975	0.637	0.637	1.170	0.885	0.885
0.7L	0.975	0.637	0.637	1.170	0.885	0.885
0.8L	0.975	0.637	0.637	1.170	0.885	0.885
0.9L	0.975	0.637	0.637	1.169	0.885	0.885
1.0L	0.975	0.637	0.637	1.169	0.885	0.885

Pedestrian	0.167	(Calculated)
Comp. DC	0.167	(Calculated)
Comp. DW	0.167	(Calculated)


Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 4:52 P.M.



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MID PATTERN (Ycg = 4.38 in):

(A) Draped:

5 @ 3,000 in | 3 @ 5,000 in | 1 @ 7,000 in

(B) Straight:

12 @ 3,000 in | 14 @ 5,000 in | 4 @ 7,000 in

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	8.463 in ²
Trans. Len bonded	3,000 ft
Dev. Len bonded	11,641 ft
Dev. Len debonded	14,551 ft
Holddown Force	6,707 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	1713.8 kips
Beam Shrink (PL/AE)	0.546 in

Span:1, Beam:4

ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	Beam Vol(C.V.) (LB)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
4790.213	740	3544.758	34,768	140811.438	654.774
					0.000

Span:1, Beam:4

REINFORCING STEEL:

Tension steel:	
fy	60.0 ksi
Es	29000 ksi
fs	24.0 ksi


Stirrups:

# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	0.8333	No
2	US#4(M13)	60.0	0.40	9.00	0.8333	2.5951	No
2	US#4(M13)	60.0	0.40	12.00	2.5951	7.8642	No
2	US#4(M13)	60.0	0.40	15.00	7.8642	14.9898	No
2	US#4(M13)	60.0	0.40	18.00	14.9898	20.0292	No
2	US#4(M13)	60.0	0.40	21.00	20.0292	23.8120	No
2	US#4(M13)	60.0	0.40	24.00	23.8120	25.8593	No
2	US#4(M13)	60.0	0.40	21.00	25.8593	32.3517	No
2	US#4(M13)	60.0	0.40	18.00	32.3517	39.4678	No

Units: U.S. Units

Design Code: AASHTO LRFD

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# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	21.00	39.4678	43.2572	No
2	US#4(M13)	60.0	0.40	24.00	43.2572	79.5656	No
2	US#4(M13)	60.0	0.40	21.00	79.5656	83.3550	No
2	US#4(M13)	60.0	0.40	18.00	83.3550	90.4708	No
2	US#4(M13)	60.0	0.40	21.00	90.4708	96.9636	No
2	US#4(M13)	60.0	0.40	24.00	96.9636	99.0108	No
2	US#4(M13)	60.0	0.40	21.00	99.0108	102.7936	No
2	US#4(M13)	60.0	0.40	18.00	102.7936	107.8327	No
2	US#4(M13)	60.0	0.40	15.00	107.8327	114.9587	No
2	US#4(M13)	60.0	0.40	12.00	114.9587	120.2277	No
2	US#4(M13)	60.0	0.40	9.00	120.2277	121.9895	No
2	US#4(M13)	60.0	0.40	6.00	121.9895	122.8228	No

LOSSES

Note: Values are calculated at Midspan

Str. area	8.4630 in ²
Ycg	4.38 in
P_init	1713.8 kips
Ecc	30.22 in
Days to release	0.75
Rel. Humid (RH)	75.0 %
Es	28500.0 ksi
Eci	4017 ksi

AASHTO LOSSES

Elastic Shortening ** 14.14 ksi (Eq 5.9.5.2.3a-1), (fcgsp = 1.993 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads		-7.64 ksi	0.00 ksi
due to Composite Loads		-0.70 ksi	0.00 ksi
due to Live Loads		-4.99 ksi	0.00 ksi

Time Dependent Losses (Approximate Method (Art.5.9.5.3))

	Initial	Final
Steel relaxation	0.00 ksi	2.40 ksi (Eq 5.9.5.3-1)
Concrete shrinkage	0.00 ksi	8.14 ksi (Eq 5.9.5.3-1)
Concrete creep	0.00 ksi	10.57 ksi (Eq 5.9.5.3-1)
Sub-total	14.14 ksi	7.79 ksi (3.85 %)
Total Prestress Losses		21.93 ksi (10.83 %)


Prestressing Stress Limit Check (Table 5.9.3.1)

initial fpi = 202.5 ksi < 0.75 fpu, OK
initial fpe = 180.6 ksi < 0.80 fpy, OK


Units: U.S. Units

Design Code: AASHTO LRFD

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** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.


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SHEARMOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 4, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	12.28	24.56	36.85	49.13	61.41
Self wt. :	M	0.0	206.1	249.1	778.3	1383.6	1816.0	2075.4
(Max)	V	70.4	67.0	66.2	56.3	42.2	28.2	14.1
DL-Prec. :	M	0.0	55.2	66.7	208.4	370.5	486.3	555.7
DC(Max)	V	18.9	17.9	17.7	15.1	11.3	7.5	3.8
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	259.3	313.4	979.3	1740.8	2284.7	2610.9
Haunch (Max)	V	88.6	84.3	83.3	70.9	53.1	35.4	17.7
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	38.5	46.5	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.7	12.6	10.7	8.0	5.3	2.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	357.0	431.4	1341.5	2365.1	3071.0	3488.5
	V	148.8	143.8	142.7	128.5	108.2	87.9	59.5
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	148.8	143.9	142.9	128.9	110.0	92.0	74.9
	M	-0.0	352.9	425.8	1300.3	2218.9	2783.3	3021.0
Total :	M+	0.0	916.0	1107.1	3452.7	6118.4	7997.1	9118.1
	V	340.0	325.7	322.6	281.4	222.9	164.4	97.7
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	340.0	325.8	322.7	281.9	224.7	168.5	113.1
	M	0.0	911.9	1101.5	3411.6	5972.2	7709.3	8650.6

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	73.69	85.98	98.26	110.54	119.18	122.82
Self wt. :	M	2075.4	1816.0	1383.6	778.3	249.1	206.1
(Max)	V	14.1	28.2	42.2	56.3	66.2	67.0
DL-Prec. :	M	555.7	486.3	370.5	208.4	66.7	55.2
DC(Max)	V	3.8	7.5	11.3	15.1	17.7	17.9
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2610.6	2284.1	1740.2	978.8	313.2	259.1
Haunch (Max)	V	17.7	35.4	53.1	70.8	83.3	84.2
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	387.6	339.1	258.4	145.3	46.5	38.5
DC(Max)	V	2.7	5.3	8.0	10.7	12.6	12.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	3487.5	3069.2	2363.0	1339.9	430.8	356.5
	V	0.0	0.0	0.0	0.0	0.0	0.0
	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 4, STRENGTH I
Shears: Kips, Moments: kt

Location, Self wt. : (Max) Self wt. : (Min) DL-Prec. : DC(Max) DL-Prec. : DC(Min) DL-Prec. : DW(Max) DL-Prec. : DW(Min) Deck + : Haunch (Max) Deck + : Haunch (Min) Diaphragm : (Max) Diaphragm : (Min) DL-Comp : DC(Max) DL-Comp : DC(Min) LL + I : LL + I : LL + I : Total : Total : Total :	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
ft	0.00	3.00	3.65	12.28	24.56	36.85	49.13	61.41
M	0.0	257.6	311.3	972.8	1729.5	2269.9	2594.2	2702.3
V	88.0	83.7	82.8	70.4	52.8	35.2	17.6	0.0
M	0.0	185.5	224.2	700.4	1245.2	1634.4	1867.8	1945.7
V	63.4	60.3	59.6	50.7	38.0	25.3	12.7	0.0
M	0.0	69.0	83.4	260.5	463.1	607.8	694.7	723.6
V	23.6	22.4	22.2	18.9	14.1	9.4	4.7	0.0
M	0.0	49.7	60.0	187.6	333.4	437.7	500.2	521.0
V	17.0	16.1	16.0	13.6	10.2	6.8	3.4	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	324.1	391.8	1224.1	2176.0	2855.9	3263.6	3399.4
V	110.7	105.3	104.2	88.6	66.4	44.3	22.1	0.0
M	0.0	233.4	282.1	881.4	1566.7	2056.2	2349.8	2447.6
V	79.7	75.8	75.0	63.8	47.8	31.9	15.9	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	48.1	58.1	181.7	323.0	423.9	484.5	504.7
V	16.7	15.9	15.7	13.4	10.0	6.7	3.3	0.0
M	0.0	34.6	41.9	130.8	232.5	305.2	348.8	363.4
V	12.0	11.4	11.3	9.6	7.2	4.8	2.4	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	624.7	754.9	2347.6	4138.9	5374.3	6104.8	6305.3
V	260.4	251.7	249.8	224.8	189.3	153.9	104.2	68.7
M	0.0	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	251.9	250.0	225.6	192.5	161.0	131.1	102.7
V	61.7	61.5	745.2	2275.6	3883.1	4870.7	5286.7	5179.2
M	0.0	1323.5	1599.5	4986.7	8830.5	11531.9	13141.8	13635.3
V	499.4	479.0	474.6	416.0	332.7	249.4	151.9	68.7
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	499.4	479.2	474.9	416.8	335.9	256.6	178.8	102.7
M	0.0	1316.3	1589.8	4914.7	8574.7	11028.3	12323.7	12509.2

Location, Self wt. : (Max) Self wt. :	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
ft	73.69	85.98	98.26	110.54	119.18	119.82	122.82
M	2594.2	2269.9	1729.5	972.8	311.3	257.6	0.0
V	17.6	35.2	52.8	70.4	82.8	83.7	88.0
M	1867.8	1634.4	1245.2	700.4	224.2	185.5	0.0



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(Min)	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
V	12.7	25.3	38.0	50.7	59.6	60.3	63.4
M	694.7	607.8	463.1	260.5	83.4	69.0	-0.0
V	4.7	9.4	14.1	18.9	22.2	22.4	23.6
M	500.2	437.7	333.4	187.6	60.0	49.7	-0.0
V	3.4	6.8	10.2	13.6	16.0	16.1	17.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	3263.2	2855.2	2175.2	1223.5	391.5	323.9	0.0
V	22.2	44.3	66.4	88.6	104.1	105.3	110.7
M	2349.5	2055.7	1566.2	880.9	281.9	233.2	0.0
V	16.0	31.9	47.8	63.8	75.0	75.8	79.7
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	484.5	423.9	323.0	181.7	58.1	48.1	-0.0
V	3.3	6.7	10.0	13.4	15.7	15.9	16.7
M	348.8	305.2	232.5	130.8	41.9	34.6	-0.0
V	2.4	4.8	7.2	9.6	11.3	11.4	12.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	6103.0	5371.2	4135.3	2344.8	753.9	623.9	-0.0
V	104.1	153.8	189.2	224.6	249.5	251.3	260.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	131.0	160.9	192.4	225.4	249.7	251.5	260.0
V	5285.2	4867.9	3879.7	2273.0	744.2	616.7	-0.0
M	13139.7	11528.0	8826.1	4983.3	1598.3	1322.5	0.0
V	151.9	249.4	332.6	415.8	474.2	478.6	498.9
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	178.8	256.5	335.7	416.6	474.5	478.8	498.9
V	12321.8	11024.7	8570.5	4911.5	1588.6	1315.2	0.0

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	88.0	88.0
Deck+Haunch	110.7	110.7
Diaphragm	0.0	0.0
DL-Prec (DC)	23.6	23.6
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	100.1	100.1
DL-Comp (DW)	0.0	0.0
Live	184.0	184.3

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		Job #	
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		Job #	
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		Date	


DESIGN SUMMARY

Span: 1, Beam: 4, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	122.82
Release Length,	ft	122.82
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	39	
	Draped:	9
	Straight:	30
Concrete Strength:	fc't:	6.0* ksi
	fc:	7.5 ksi
	fc't:	5.5 ksi
Initial losses:		6.98 %
Final losses:		10.83 %

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * fc or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.023	Trans	OK
Outer	15.00	%		
Precast Top w/ no reinf. (tension)	-0.232	-0.569	Trans	
Precast Top w/ reinf. (tension)	-0.929	%		
Center	70.00	%		
Precast Top w/ no reinf. (tension)	-0.232	0.024	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k.ft)	15329.01	13635.29	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	0.00 %		OK
Max. Debond Total	25.00 %	0.00 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.497	Midspan	2.475	0.050	Midspan			
Precast Top	4.500	2.721	Midspan	3.375	2.371	Midspan			
Precast Bot	4.500	2.448	Transfer	3.375	2.554	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.287	Transfer						
Precast Bot	-0.520	-0.378	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.332	Midspan
Precast Bot							3.000	1.229	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. Table 4.6.2)
0.5 x L = 61.41 ft

	Release	Mult	Erection	Mult	Final
Prestress	3.458	1.80	6.224	2.20	7.607
Self Wt.	-1.539	1.85	-2.847	2.40	-3.694
Deck + Haunch			-1.732	2.30	-3.983
DL-Prec. (DC)			-0.369	3.00	-1.106
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.244	3.00	-0.731
DL-Comp. (DW)			0.000	3.00	0.000
Live Load					
Total	1.919		1.033		-1.906

Positive values indicate upward deflection.

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Sheet # 1
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PROPERTIES
Span:1, Beam:5
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.11/13.11 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8,500 in
Haunch Thickness	1,000 in
Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.125	0.000	0.125	126.130	Addl Build-Up
DC	Line	0.182	0.000	0.182	126.130	SIP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	in ²
------	--------	-----------------

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Overall length	126.130 ft
Release length	126.130 ft
Design length	126.130 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.d): YES

Location	+ve		Moment		Shear	
	2-Lane	1-Lane	1-Lane	2-Lane	1-Lane	1-Lane
0.0L	0.969	0.631	0.631	1.171	0.886	0.886
0.1L	0.969	0.631	0.631	1.171	0.886	0.886
0.2L	0.969	0.631	0.631	1.170	0.886	0.886
0.3L	0.969	0.631	0.631	1.170	0.886	0.886
0.4L	0.969	0.631	0.631	1.170	0.886	0.886
0.5L	0.969	0.631	0.631	1.170	0.885	0.885
0.6L	0.968	0.631	0.631	1.170	0.885	0.885
0.7L	0.968	0.631	0.631	1.170	0.885	0.885
0.8L	0.968	0.631	0.631	1.170	0.885	0.885
0.9L	0.968	0.631	0.631	1.169	0.885	0.885
1.0L	0.968	0.631	0.631	1.169	0.885	0.885

Pedestrian	0.167	(Calculated)
Comp. DC	0.167	(Calculated)
Comp. DW	0.167	(Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 4:53 P.M.

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Total Height	78.00	in
Mom. of inertia (Ixx)	904567	in4
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of inertia (Iyy)	82367.0	in4
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in2	in	in4	in	pcf	in
0.0L	75.08	2589.9	2287.24	87.5	2254693	59.75	150.0	157.4
0.1L	75.08	2589.6	2287.02	87.5	2254572	59.75	150.0	157.3
0.2L	75.08	2589.4	2286.80	87.5	2254450	59.75	150.0	157.3
0.3L	75.08	2589.1	2286.59	87.5	2254329	59.75	150.0	157.3
0.4L	75.08	2588.8	2286.37	87.5	2254208	59.75	150.0	157.3
0.5L	75.08	2588.6	2286.15	87.5	2254086	59.74	150.0	157.2
0.6L	75.08	2588.3	2285.93	87.5	2253964	59.74	150.0	157.2
0.7L	75.08	2588.0	2285.72	87.5	2253843	59.74	150.0	157.2
0.8L	75.08	2587.8	2285.50	87.5	2253722	59.74	150.0	157.1
0.9L	75.08	2587.5	2285.28	87.5	2253600	59.73	150.0	157.1
1.0L	75.08	2587.2	2285.06	87.5	2253478	59.73	150.0	157.1

(#) Area, Ixx, and Ycg Of Total Section using Ed/Ec = 0.8563
Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft	in	in	in	in	in	in	in
Precast (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	12.61	25.23	37.84	50.45	63.06
Area, in2	1100.6	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8	1154.8
Yb, in	34.60	33.33	33.33	33.30	33.27	33.19	33.19	33.19
MI(Ixx), in4	904567	942394	942506	944075	946338	948663	951050	951050
Composite: (At Final, using Ec = 4491.0ksi)								
Area, in2	2287.2	2334.8	2334.8	2334.6	2334.4	2334.1	2333.9	2333.7
Yb, in	59.75	58.69	58.69	58.69	58.66	58.64	58.62	58.62
MI(Ixx), in4	2254693	2381699	2381894	2384477	2388213	2392006	2395854	2395721

Span:1, Beam:5
STRESS LIMITS (Art. 5.9.4):
STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

Strength	PRECAST	ksi
	6.00	

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 4:53 P.M.

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Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.93	ksi
Center	70.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.
STRESS LIMITS AT FINAL AFTER LOSSES:

PRECAST	DECK	
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

PRECAST	DECK	
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

PRECAST	DECK	
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

PRECAST	DECK	
Max comp	3.00 ksi	-

SERVICE III (Tension):

PRECAST	DECK	
Max tens	-0.52 ksi	-0.45 ksi

Span:1, Beam:5
PRESTRESSED STEEL:
41 strands, 6/10-270K-LL, Low relaxation strands
Depressed at 0.40L (50.45 ft from member end)

END PATTERN (Ycg = 7.73 in):

10 @ 3,000 in	12 @ 5,000 in	2 @ 7,000 in	1 @ 9,000 in
7 @ 11,000 in	5 @ 13,000 in	3 @ 15,000 in	1 @ 17,000 in

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 4:53 P.M.

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MID PATTERN (Vcg = 4.61 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 2 @ 7,000 in | 1 @ 9,000 in

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	8.897 in ²
Trans. Len. bonded	3,000 ft
Trans. Len. debonded	3,000 ft
Dev. Len. bonded	11,655 ft
Dev. Len. debonded	14,569 ft
Holddown Force	9,290 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	1801.6 kips
Beam Shring (PL/AE)	0.588 in

Span:1, Beam:5

ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	Beam Vol(C.V.) (LB)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
5171.462	740	3826.882	35,704	144602.859	654,774
					0.000

Span:1, Beam:5

REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi

Stirrups:

# legs	Size	f _y (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	0.9678	No
2	US#4(M13)	60.0	0.40	9.00	0.9678	2.7395	No
2	US#4(M13)	60.0	0.40	12.00	2.7395	9.3438	No
2	US#4(M13)	60.0	0.40	15.00	9.3438	16.0364	No
2	US#4(M13)	60.0	0.40	18.00	16.0364	20.5541	No
2	US#4(M13)	60.0	0.40	21.00	20.5541	23.9432	No
2	US#4(M13)	60.0	0.40	24.00	23.9432	28.4905	No
2	US#4(M13)	60.0	0.40	21.00	28.4905	37.1188	No

Units: U.S. Units

Design Code: AASHTO LRFD

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MID PATTERN (Vcg = 4.61 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 2 @ 7,000 in | 1 @ 9,000 in

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	8.897 in ²
Trans. Len. bonded	3,000 ft
Trans. Len. debonded	3,000 ft
Dev. Len. bonded	11,655 ft
Dev. Len. debonded	14,569 ft
Holddown Force	9,290 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	1801.6 kips
Beam Shring (PL/AE)	0.588 in

Span:1, Beam:5

ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	Beam Vol(C.V.) (LB)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
5171.462	740	3826.882	35,704	144602.859	654,774
					0.000

Span:1, Beam:5

REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi


Stirrups:

# legs	Size	f _y (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	0.9678	No
2	US#4(M13)	60.0	0.40	9.00	0.9678	2.7395	No
2	US#4(M13)	60.0	0.40	12.00	2.7395	9.3438	No
2	US#4(M13)	60.0	0.40	15.00	9.3438	16.0364	No
2	US#4(M13)	60.0	0.40	18.00	16.0364	20.5541	No
2	US#4(M13)	60.0	0.40	21.00	20.5541	23.9432	No
2	US#4(M13)	60.0	0.40	24.00	23.9432	28.4905	No
2	US#4(M13)	60.0	0.40	21.00	28.4905	37.1188	No

Units: U.S. Units

Design Code: AASHTO LRFD

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** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.



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SHEARMOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 5, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location, ft	0.00	3.00	3.65	12.61	25.23	37.84	50.45	63.06
Self wt. : M	0.0	211.7	256.0	820.7	1459.1	1915.1	2188.6	2279.8
(Max) V	72.3	68.9	68.1	57.8	43.4	28.9	14.5	0.0
DL-Prec. : M	0.0	56.7	68.5	219.8	390.7	512.8	586.1	610.5
DC(Max) V	19.4	18.4	18.2	15.5	11.6	7.7	3.9	0.0
DL-Prec. : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + : M	0.0	266.4	322.1	1032.7	1835.9	2409.4	2753.5	2868.0
Haunch (Max) V	91.0	86.7	85.7	72.8	54.6	36.4	18.2	0.0
Diaphragm : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp : M	-0.0	37.5	45.3	145.3	258.4	339.1	387.6	403.7
DC(Max) V	13.4	12.7	12.6	10.7	8.0	5.3	2.7	0.0
DL-Comp : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I : M+	-0.0	345.3	417.3	1331.6	2347.8	3048.5	3463.0	3576.7
V	148.8	143.9	142.9	128.5	108.2	87.9	59.5	39.2
LL + I : M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I : Vmx	148.8	144.1	143.0	128.9	110.0	92.0	74.9	58.7
Total : M+	-0.0	341.4	412.1	1290.8	2202.7	2762.9	2998.9	2937.9
V	0.0	917.7	1109.3	3550.2	6291.8	8225.0	9378.7	9738.8
Total : M-	344.8	330.6	327.6	285.3	225.8	166.3	98.7	39.3
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total : Vmx	344.8	330.7	327.7	285.7	227.6	170.4	114.1	58.7
M	-0.0	913.8	1104.0	3509.4	6146.7	7939.3	8914.6	9100.0

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location, ft	75.68	88.29	100.90	113.52	122.48	123.13	126.13
Self wt. : M	2188.6	1915.1	1459.1	820.7	256.0	211.7	0.0
(Max) V	14.5	28.9	43.4	57.8	68.1	68.9	72.3
DL-Prec. : M	586.1	512.8	390.7	219.8	68.5	56.7	0.0
DC(Max) V	3.9	7.7	11.6	15.5	18.2	18.4	19.4
DL-Prec. : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + : M	2753.1	2408.8	1835.2	1032.2	321.9	266.3	0.0
Haunch (Max) V	18.2	36.4	54.6	72.8	85.7	86.6	90.9
Diaphragm : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp : M	387.6	339.1	258.4	145.3	45.3	37.5	-0.0
DC(Max) V	2.7	5.3	8.0	10.7	12.6	12.7	13.4
DL-Comp : M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max) V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I : M+	3462.0	3046.8	2345.8	1330.1	416.8	344.9	-0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
V	59.5	87.9	108.1	128.3	142.7	143.8	148.6
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	74.9	91.9	109.9	128.8	142.9	143.9	148.6
M	2998.0	2761.3	2200.8	1289.4	411.5	340.9	-0.0
M+	9371.4	8222.7	6289.2	3548.2	1108.6	917.1	0.0
V	98.7	166.3	225.7	285.1	327.3	330.4	344.5
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	114.1	170.3	227.5	285.6	327.5	330.5	344.5
M	8913.5	7937.2	6144.2	3507.5	1103.3	913.2	0.0


REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	72.3	72.3
Deck+Haunch	91.0	90.9
Diaphragm	0.0	0.0
DL-Prec.(DC)	19.4	19.4
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	80.1	80.1
DL-Comp.(DW)	0.0	0.0
Live	105.1	105.3
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 5, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	0.00	3.00	3.65	12.61	25.23	37.84	50.45	63.06
Self wt. :	M	0.0	211.7	256.0	1459.1	1915.1	2188.6	2279.8
(Max)	V	72.3	68.9	68.1	57.8	43.4	28.9	14.5
DC(Max)	M	0.0	56.7	68.5	219.8	390.7	512.8	610.5
DL-Prec. :	V	19.4	18.4	18.2	15.5	11.6	7.7	3.9
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	M	0.0	266.4	322.1	1032.7	1835.9	2409.4	2753.5
Deck + :	V	91.0	86.7	85.7	72.8	54.6	36.4	18.2
Haunch (Max)	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	37.5	45.3	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.7	12.6	10.7	8.0	5.3	2.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	276.3	333.9	1065.3	1878.2	2438.8	2770.4
LL + I :	V	119.0	115.2	114.3	102.8	86.6	70.3	47.6
LL + I :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	119.0	115.2	114.4	103.1	88.0	73.6	59.9
LL + I :	M	-0.0	273.1	329.7	1032.7	1762.1	2210.3	2399.1
Total :	M+	0.0	848.7	1025.8	3283.9	5822.3	7615.3	8686.1
Total :	V	315.0	301.8	299.0	259.6	204.1	148.7	86.8
Total :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	315.0	301.9	299.1	259.9	205.6	152.0	99.1
Total :	M	-0.0	845.5	1021.6	3251.3	5706.2	7386.8	8314.9

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	75.68	88.29	100.90	113.52	122.48	123.13	126.13
Self wt. :	M	2188.6	1915.1	1459.1	820.7	256.0	211.7
(Max)	V	14.5	28.9	43.4	57.8	68.1	68.9
DL-Prec. :	M	586.1	512.8	390.7	219.8	68.5	56.7
DC(Max)	V	3.9	7.7	11.6	15.5	18.2	18.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2753.1	2408.8	1835.2	1032.2	321.9	266.3
Haunch (Max)	V	18.2	36.4	54.6	72.8	85.7	86.6
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	387.6	339.1	258.4	145.3	45.3	37.5
DC(Max)	V	2.7	5.3	8.0	10.7	12.6	12.7
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	2769.6	2437.5	1876.6	1064.1	333.4	275.9
LL + I :	V	47.6	70.3	86.5	102.7	114.2	115.0
LL + I :	M	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	59.9	73.6	87.9	103.0	114.3	115.1
LL + I :	M	2398.4	2209.1	1760.6	1031.5	329.2	272.7
Total :	M+	8685.0	7613.3	5820.0	3282.2	1025.2	848.1
Total :	V	86.8	148.7	204.1	259.4	298.8	301.6
Total :	M	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	99.1	152.0	205.5	259.8	298.9	301.7
Total :	M	8313.9	7384.9	5704.0	3249.6	1021.0	845.0



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 5, STRENGTH I
Shears: Kips, Moments: kt

Location, Self wt. : (Max) Self wt. : (Min) DL-Prec. : DC(Max) DL-Prec. : DC(Min) DL-Prec. : DW(Max) DL-Prec. : DW(Min) Deck + : Haunch (Max) Deck + : Haunch (Min) Diaphragm : (Max) Diaphragm : (Min) DL-Comp : DC(Max) DL-Comp : DC(Min) LL + I : LL + I : LL + I : Total : Total : Total :	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
ft	0.00	3.00	3.65	12.61	25.23	37.84	50.45	63.06
M	0.0	264.7	320.0	1025.9	1823.9	2393.8	2735.8	2949.8
V	90.4	86.1	85.2	72.3	54.2	36.2	18.1	0.0
M	0.0	190.6	230.4	738.7	1313.2	1723.6	1969.8	2051.9
V	65.1	62.0	61.3	52.1	39.0	26.0	13.0	0.0
M	0.0	70.9	85.7	274.7	488.4	641.0	732.6	763.1
V	24.2	23.0	22.8	19.4	14.5	9.7	4.8	0.0
M	0.0	51.0	61.7	197.8	351.6	461.5	527.5	549.4
V	17.4	16.6	16.4	13.9	10.5	7.0	3.5	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	333.1	402.6	1290.9	2294.8	3011.8	3441.8	3585.0
V	113.7	108.3	107.1	91.0	68.2	45.5	22.7	0.0
M	0.0	239.8	289.9	929.5	1652.3	2168.5	2478.1	2581.2
V	81.9	78.0	77.1	65.5	49.1	32.7	16.4	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	46.9	56.7	181.7	323.0	423.9	484.5	504.7
V	16.7	15.9	15.7	13.4	10.0	6.7	3.3	0.0
M	0.0	33.7	40.8	130.8	232.5	305.2	348.8	363.4
V	12.0	11.4	11.3	9.6	7.2	4.8	2.4	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	604.3	730.3	2330.4	4108.6	5335.0	6060.2	6259.2
V	260.4	251.9	250.1	224.8	189.3	153.9	104.2	68.7
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	252.1	250.3	225.6	192.5	161.0	131.1	102.7
V	88.29	85.2	84.6	71.1	54.6	48.51	41.4	0.0
M	0.0	597.4	721.1	2258.9	3854.6	4835.1	5141.4	5248.0
V	0.0	1319.8	1595.3	5103.6	9038.7	11805.5	13454.9	13961.8
M	505.4	485.2	480.9	420.8	336.3	251.8	153.1	68.7
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	505.4	485.4	481.1	421.6	339.5	259.0	180.0	102.7
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	1312.9	1586.1	5032.2	8784.7	11305.6	12642.7	12844.0

Location, Self wt. : (Max) Self wt. :	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
ft	75.68	88.29	100.90	113.52	122.48	123.13	126.13
M	2735.8	2393.8	1823.9	1025.9	320.0	264.7	0.0
V	18.1	36.2	54.2	72.3	85.2	86.1	90.4
M	1969.8	1723.6	1313.2	738.7	230.4	190.6	0.0



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(Min)	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
V	13.0	26.0	39.0	52.1	61.3	62.0	65.1
M	732.6	641.0	488.4	274.7	85.7	70.9	0.0
V	4.8	9.7	14.5	19.4	22.8	23.0	24.2
M	527.5	461.5	351.6	197.8	61.7	51.0	0.0
V	3.5	7.0	10.5	13.9	16.4	16.6	17.4
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	3441.4	3011.1	2294.0	1290.3	402.4	332.9	0.0
V	22.8	45.5	68.2	90.9	107.1	108.3	113.7
M	2477.8	2168.0	1651.7	929.0	289.7	239.7	0.0
V	16.4	32.8	49.1	65.5	77.1	77.9	81.8
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	484.5	423.9	323.0	181.7	56.7	46.9	0.0
V	3.3	6.7	10.0	13.4	15.7	15.9	16.7
M	348.8	305.2	232.5	130.8	40.8	33.7	0.0
V	2.4	4.8	7.2	9.6	11.3	11.4	12.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	6058.5	5332.0	4105.1	2327.7	729.4	603.5	0.0
V	104.1	153.8	189.2	224.6	249.8	251.6	260.0
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	131.0	160.9	192.4	225.4	250.0	251.8	260.0
V	5246.5	4832.3	3851.4	2256.4	720.2	596.6	0.0
M	13452.8	11801.8	9034.4	5100.4	1594.1	1318.8	0.0
V	153.1	251.8	336.2	420.6	480.5	484.9	504.9
M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	180.0	258.9	339.3	421.3	480.8	485.1	504.9
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
M	12640.8	11302.2	8780.7	5029.0	1584.9	1311.9	0.0

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	90.4	90.4
Deck+Haunch	113.7	113.7
Diaphragm	0.0	0.0
DL-Prec (DC)	24.2	24.2
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	100.1	100.1
DL-Comp (DW)	0.0	0.0
Live	184.0	184.2

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DESIGN SUMMARY

Span: 1, Beam: 5, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	126.13
Release Length,	ft	126.13
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	41	
	Draped:	16
	Straight:	25
Concrete Strength:	fc't:	6.0* ksi
	fc:	7.5 ksi
	fc't:	5.5 ksi
Initial losses:		7.22 %
Final losses:		11.21 %

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * fc or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.113	Trans	OK
Outer	15.00	%		
Precast Top w/ no reinf. (tension)	-0.232	-0.521	Trans	
Precast Top w/ reinf. (tension)	-0.929	%		
Center	70.00	%		
Precast Top w/ no reinf. (tension)	-0.232	0.080	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k.ft)	16043.84	13961.79	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment detailed report.				
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	0.00 %		OK
Max. Debond Total	25.00 %	0.00 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.493	Midspan	2.475	0.050	Midspan			
Precast Top	4.500	2.869	Midspan	3.375	2.521	Midspan			
Precast Bot	4.500	2.520	Transfer	3.375	2.622	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.238	Transfer						
Precast Bot	-0.520	-0.372	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.405	Midspan
Precast Bot							3.000	1.265	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. Table 4.6.2)
0.5 x L = 63.06 ft

	Release	Mult	Erection	Mult	Final
Prestress	3.766	1.80	6.779	2.20	8.286
Self Wt.	-1.709	1.85	-3.162	2.40	-4.101
Deck + Haunch			-1.923	2.30	-4.423
DL-Prec. (DC)			-0.409	3.00	-1.228
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.243	3.00	-0.729
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	2.057		1.043		-2.195

Positive values indicate upward deflection.



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PROPERTIES
Span: 1, Beam: 6
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.11/11.34 ft
	End LL/RI 13.52/11.70 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Exterior
Start Skew Angle	0.00 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch Thickness	1.000 in
Width	48,000 in

GENERAL LOAD DATA:


DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Point	0.125	0.000	-	-	Add'l Build-Up
DC	Point	0.091	0.000	-	-	SIP

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:



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Overall length	129.437 ft
Release length	129.437 ft
Design length	129.437 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2d): YES

Location	+ve		Moment		Shear	
	2+Lane	1Lane	2+Lane	1Lane	2+Lane	1Lane
0.0L	1.078	1.037(#)	1.085	1.037(#)	1.085	1.037(#)
0.1L	1.068	1.028(#)	1.074	1.028(#)	1.074	1.028(#)
0.2L	1.059	1.020(#)	1.063	1.020(#)	1.063	1.020(#)
0.3L	1.049	1.012(#)	1.052	1.012(#)	1.052	1.012(#)
0.4L	1.039	1.003(#)	1.041	1.003(#)	1.041	1.003(#)
0.5L	1.029	0.995(#)	1.030	0.995(#)	1.030	0.995(#)
0.6L	1.020	0.986(#)	1.019	0.986(#)	1.019	0.986(#)
0.7L	1.010	0.978(#)	1.008	0.978(#)	1.008	0.978(#)
0.8L	1.000	0.970(#)	0.997	0.970(#)	0.997	0.970(#)
0.9L	0.990	0.961(#)	0.986	0.961(#)	0.986	0.961(#)
1.0L	0.981	0.953(#)	0.975	0.953(#)	0.975	0.953(#)


(#) Lever rule (C4.6.2.2.1)

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	0.75
Compression controlled sections	0.90
Tension controlled sections	0.90
Flexure Prestressed	0.75
Compression controlled sections	1.00
Tension controlled sections	1.00
Shear	0.90

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PRECAST SECTION PROPERTIES:

Area	1100.6 in ²
Total Height	78.00 in
Mom. of Inertia (I _{xx})	904567 in ⁴
Ht. of c.g.	34.60 in
Density	150.00 pcf
Self-weight	1146.5 plf
Mom. of Inertia (I _{yy})	82367.0 in ⁴
Poisson's Ratio	0.2
Thermal Coeff.	0.000006000 1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	I _{xx}	Ycg	Density	Eff. Width
		plf	in ²	in	in ⁴	in	pcf	in
0.0L	75.08	2398.8	2130.13	87.5	2160620	58.02	150.0	135.8
0.1L	75.08	2388.9	2122.03	87.5	2155397	57.93	150.0	134.7
0.2L	75.08	2379.1	2113.93	87.5	2150135	57.83	150.0	133.6
0.3L	75.08	2369.2	2105.83	87.5	2144833	57.73	150.0	132.5
0.4L	75.08	2359.4	2097.74	87.5	2139491	57.63	150.0	131.3
0.5L	75.08	2349.5	2089.64	87.5	2134107	57.53	150.0	130.2
0.6L	75.08	2339.7	2081.54	87.5	2128683	57.43	150.0	129.1
0.7L	75.08	2329.8	2073.44	87.5	2123216	57.33	150.0	128.0
0.8L	75.08	2320.0	2065.35	87.5	2117706	57.23	150.0	126.9
0.9L	75.08	2310.1	2057.25	87.5	2112154	57.13	150.0	125.8
1.0L	75.08	2300.3	2049.15	87.5	2106558	57.02	150.0	124.7

(#) Area, I_{xx}, and Ycg Of Total Section using Ec/Ec = 0.8563


Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast: (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	12.94	25.89	38.83	51.77	64.72
Area, I _{xx} , Y _b , I _{yy}	1100.6 in ²	1149.5 in ²	1149.5 in ²	1149.5 in ²	1149.5 in ²	1149.5 in ²	1149.5 in ²	1149.5 in ²
	34.60 in	33.41 in	33.40 in	33.39 in	33.36 in	33.33 in	33.31 in	33.31 in
	904567 in ⁴	941472 in ⁴	941552 in ⁴	942111 in ⁴	944354 in ⁴	946032 in ⁴	947745 in ⁴	947745 in ⁴
Composite: (At Final, using Ec = 4491.0ksi)	2130.1 in ²	2173.0 in ²	2173.0 in ²	2165.0 in ²	2156.9 in ²	2148.8 in ²	2140.7 in ²	2132.6 in ²
Area, I _{xx} , Y _b , I _{yy}	2130.1 in ²	2173.0 in ²	2173.0 in ²	2165.0 in ²	2156.9 in ²	2148.8 in ²	2140.7 in ²	2132.6 in ²
	58.02 in	57.00 in	57.00 in	56.90 in	56.79 in	56.67 in	56.56 in	56.46 in
	2160620 in ⁴	2272159 in ⁴	2272290 in ⁴	2268540 in ⁴	2265511 in ⁴	2262460 in ⁴	2259387 in ⁴	2255348 in ⁴

Span:1, Beam:6

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

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	PRECAST	
Strength	6.00 ksi	
Elasticity	4016.8 ksi	
Max comp	3.60 ksi	
Outer	15.00 %	
Max tens	-0.23 ksi	
Center	w/reinf -0.93 ksi	
Max tens	70.00 %	
Max tens	-0.23 ksi	
Max tens	w/reinf -0.59 ksi	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f_c or 6.0 ksi.

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_{LL}) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00 ksi	- ksi

SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi


Span:1, Beam:6

PRESTRESSED STEEL:


37 strands, 6/10-270K-LL, Low relaxation strands
Depressed at 0.40L (51.77 ft from member end)

END PATTERN (Ycg = 6.68 in):

12 @ 3.000 in	14 @ 5.000 in	2 @ 7.000 in	5 @ 13.000 in
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Please see theory section for complete explanation.


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SHEARMOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 6, SERVICE I
 Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.65	12.94	25.89	38.83	51.77	64.72
Self wt. :	M	0.0	217.4	864.3	1536.6	2016.8	2304.9	2401.0
(Max)	V	74.2	70.8	70.0	59.4	44.5	29.7	14.8
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.2	0.2	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	232.0	280.5	920.6	1632.3	2136.6	2435.2
Deck + :	M	0.0	232.0	280.5	920.6	1632.3	2136.6	2435.2
Haunch (Max)	V	79.2	75.5	74.7	63.0	46.9	31.0	15.2
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	36.6	44.2	145.3	258.4	339.1	387.6
DC(Max)	V	13.4	12.7	12.6	10.7	8.0	5.3	2.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	373.7	451.5	1467.9	2564.8	3300.2	3714.5
LL + I :	M	137.9	133.2	132.2	117.9	98.3	79.0	52.9
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + I :	M	137.9	133.3	132.3	118.3	99.9	82.7	66.6
Total :	M	-0.0	369.5	445.9	1422.9	2406.2	2990.9	3216.7
Total :	M+	0.0	859.7	1039.1	3398.2	5992.0	7792.7	8842.3
Total :	V	304.9	292.4	289.7	251.0	197.7	145.0	85.6
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	304.9	292.4	289.8	251.4	199.4	148.7	99.3
Total :	M	-0.0	855.5	1033.5	3353.2	5683.5	7483.5	8344.5

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	77.66	90.61	103.55	116.49	126.44	129.44
Self wt. :	M	2304.9	2016.8	1536.6	864.3	262.9	217.4
(Max)	V	14.8	29.7	44.5	59.4	70.0	74.2
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	2422.0	2113.5	1605.9	900.8	273.5	226.2
Deck + :	M	16.1	31.6	46.9	62.1	72.9	73.6
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	387.6	339.1	258.4	145.3	44.2	36.6
DC(Max)	V	2.7	5.3	8.0	10.7	12.6	12.7
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	3645.1	3177.8	2423.5	1361.0	413.0	341.5
LL + I :	M	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0




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DESIGN SUMMARY

Span: 1, Beam: 6, Exterior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	129.44
Release Length,	ft	129.44
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	37	9
	Draped:	28
	Straight:	
Concrete Strength:	ftci:	6.0* ksi
	fc:	7.5 ksi
	ftci:	5.5 ksi
Initial losses:	6.30 %	
Final losses:	10.54 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * fc or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	2.872	Trans	OK
Outer	15.00	%		
Precast Top w/ no reinf. (tension)	-0.232	-0.531	Trans	
Precast Top w/ reinf. (tension)	-0.929	%		
Center	70.00	%		
Precast Top w/ no reinf. (tension)	-0.232	0.142	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k.ft)	14522.52	13320.20	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	0.00 %		OK
Max. Debond Total	25.00 %	0.00 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.595	Midspan	2.475	0.057	Midspan			
Precast Top	4.500	2.541	Midspan	3.375	2.105	Midspan			
Precast Bot	4.500	2.349	Transfer	3.375	2.461	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.296	Transfer						
Precast Bot	-0.520	-0.352	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.322	Midspan
Precast Bot							3.000	1.156	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 64.72 ft

	Release	Mult	Erection	Mult	Final
Prestress	3.673	1.80	6.612	2.20	8.081
Self Wt.	-1.902	1.85	-3.519	2.40	-4.565
Deck + Haunch			-1.792	2.30	-4.123
DL-Prec. (DC)			-0.000	3.00	-0.000
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.258	3.00	-0.775
DL-Comp. (DW)			0.000	3.00	0.000
Live Load					
Total	1.771		1.043		-1.381

Positive values indicate upward deflection.

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Code: AASHTO LRFD

Units: US Units, (KIPS, ft)

Number of Spans: 1

Left Curb Width: 1.5417

Right Curb Width: 1.5417

Span #	Span length	Number Of beams	Bridge Width
1	120.9358	6	88.2500
			91.0130

Abutment #: 1

Self Weight

Line 1 Girder 1 : 64.7185
 Line 1 Girder 2 : 66.6142
 Line 1 Girder 3 : 68.5099
 Line 1 Girder 4 : 70.4056
 Line 1 Girder 5 : 72.3013
 Line 1 Girder 6 : 74.1970

Self + Deck

Line 1 Girder 1 : 72.1855
 Line 1 Girder 2 : 83.8215
 Line 1 Girder 3 : 86.2085
 Line 1 Girder 4 : 88.5954
 Line 1 Girder 5 : 90.9823
 Line 1 Girder 6 : 79.2314

Dead Load DC on Precast

Line 1 Girder 1 : 12.1934
 Line 1 Girder 2 : 17.8380
 Line 1 Girder 3 : 18.3457
 Line 1 Girder 4 : 18.8533
 Line 1 Girder 5 : 19.3609
 Line 1 Girder 6 : 0.2160

Dead Load DW on Precast

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000

Dead Load DC on Composite

Line 1 Girder 1 : 13.3533
 Line 1 Girder 2 : 13.3533
 Line 1 Girder 3 : 13.3533
 Line 1 Girder 4 : 13.3533
 Line 1 Girder 5 : 13.3533
 Line 1 Girder 6 : 13.3533

Dead Load DW on Composite

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000

Live Load

Live Load Max +ve, Truck : 73.0243
 Live Load Max +ve, Lane : 42.5327

Abutment #: 2

Self Weight

Line 1 Girder 1 : 64.7185
 Line 1 Girder 2 : 66.6142
 Line 1 Girder 3 : 68.5099
 Line 1 Girder 4 : 70.4056
 Line 1 Girder 5 : 72.3013
 Line 1 Girder 6 : 74.1970

Self + Deck

Line 1 Girder 1 : 73.9746
 Line 1 Girder 2 : 83.7664
 Line 1 Girder 3 : 86.1534
 Line 1 Girder 4 : 88.5403
 Line 1 Girder 5 : 90.9272
 Line 1 Girder 6 : 77.1278

Dead Load DC on Precast

Line 1 Girder 1 : 12.1934
 Line 1 Girder 2 : 17.8380
 Line 1 Girder 3 : 18.3457
 Line 1 Girder 4 : 18.8533
 Line 1 Girder 5 : 19.3609
 Line 1 Girder 6 : 0.0000

Dead Load DW on Precast

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000

Dead Load DC on Composite


Line 1 Girder 1 : 13.3533
 Line 1 Girder 2 : 13.3533
 Line 1 Girder 3 : 13.3533
 Line 1 Girder 4 : 13.3533
 Line 1 Girder 5 : 13.3533
 Line 1 Girder 6 : 13.3533

Dead Load DW on Composite

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000


Live Load

Live Load Max +ve, Truck : 76.8575
 Live Load Max +ve, Lane : 42.5327

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PROJECT DATA

Project:	I4 Widening Over St. John's
Designer:	KSM
Date:	Sept/9/2013
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State:	Florida
Specification:	AASHTO LRFD - 6th Edition, 2012
Design Code:	US
Units:	Simple Span
Span Type:	Yes
Flared Girder:	Span 12 - Modified Spacing
Comments:	\\lknw001PMWORK3\Jobs\59219 - I4 SAMRTECHPROD\43210012201\Segment 4\structleng_data\I-4 Over St. Johns River\02 Alternative 2 - Reversible Lanes\1. Superstructure\Update_140910_74.08' Roadway\Span 12 Rev\Span12EB_ModifiedSpacing.csl
File Name:	

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GEOMETRY DATA

ALIGNMENT DATA
 Bridge Alignment: ALG01
 Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation	Radius	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	ft	-

BRIDGE LAYOUT

Overall Width (ft)	75.083
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	72.000
Number of spans	1
Number of lanes	4
Lane width (ft)	12.000
Eft Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	48.000
Bridge c/s M(1xx) (in4)	13348360.00

Component	RefName	Station	Bearing	Deck Width	Deck Offset
Begin Bridge		ft		ft	ft
Abutment	AB01	0+00.0000	N 14 09 12.96 W	75.0830	0.0000
Abutment	AB02	0+00.0000	N 14 09 12.96 W	75.0830	0.0000
End Bridge		1+42.3330	N 14 09 12.96 W	75.0830	0.0000

BEAM DATA


No	ID	Length	Loc-start	Loc-end	Area	M(1xx)	Height	Yb	B-topg	B-trib
1	FIB-78	142.333	12.512	12.512	1100.6	904567.0	78.00	34.60	48.00	11.312
2	FIB-78	142.333	13.525	13.525	1100.6	904567.0	78.00	34.60	48.00	13.114
3	FIB-78	142.333	13.525	13.525	1100.6	904567.0	78.00	34.60	48.00	13.114
4	FIB-78	142.333	13.525	13.525	1100.6	904567.0	78.00	34.60	48.00	13.114
5	FIB-78	142.333	13.525	13.525	1100.6	904567.0	78.00	34.60	48.00	13.114
6	FIB-78	142.333	13.525	13.525	1100.6	904567.0	78.00	34.60	48.00	11.313

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast	Precast	C.I.P
	Release	Final	



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	Precast	Precast	C.I.P
	Release	Final	
f'c (ksi)	6.000	7.500	5.500
Wc (pcf)	150.000	150.000	150.000
Ec (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff. (1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES

PRESTRESSED STEEL:

6/10-270K-LL, Low relaxation strands

Depressed at 0.40L


Strand Diameter = 0.600 in

Tensile Strength(fpu) = 270.0 ksi

Use transformed strand and rebar: Strand Only

REINFORCING STEEL:

Tension/Shear steel: fy = 60.0 ksi Es = 29000 ksi fs = 24.0 ksi



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LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.000
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Slay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.182	0.000	0.182	142.333	SIP
1	1	DC	Line	0.125	0.000	0.125	142.333	Haunch
1	2	DC	Line	0.091	0.000	0.091	142.333	SIP
1	2	DC	Line	0.125	0.000	0.125	142.333	Haunch
1	3	DC	Line	0.091	0.000	0.091	142.333	SIP
1	3	DC	Line	0.125	0.000	0.125	142.333	Haunch
1	4	DC	Line	0.091	0.000	0.091	142.333	SIP
1	4	DC	Line	0.125	0.000	0.125	142.333	Haunch
1	5	DC	Line	0.091	0.000	0.091	142.333	SIP
1	5	DC	Line	0.125	0.000	0.125	142.333	Haunch
1	6	DC	Point	0.182	0.000	-	-	SIP
1	6	DC	Point	0.125	0.000	-	-	Haunch


DIAPHRAGM LOADS - NONE

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	142.333	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	142.333	Right Curb Weight
1	DC	Line	0.485	0.000	0.485	142.333	Median Barrier

TEMPERATURE LOADS - NONE

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LIVE LOADS

Live load deflection: not included.


ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE

Units: U.S. Units

Design Code: AASHTO LRFD

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ANALYSIS DATA

ANALYSIS PARAMETERS DATA

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)


	Live	DC(max)	DC(min)	DW(max)	DW(min)
Service I:	1.00	1.00	-	1.00	-
Service II:	0.80	1.00	-	1.00	-
Strength I:	1.75	1.25	0.90	1.50	0.65
Fatigue I:	1.50	-	-	-	-

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00

Units: U.S. Units

Design Code: AASHTO LRFD

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Sheet # 7

Job #

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PROJECT DESIGN PARAMETERS

MULTIPLIERS:

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vut:	INCLUDED

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

	PRECAST	DECK
Strength	6.00 ksi	
Elasticity	4016.8 ksi	
Max comp	3.60 ksi	
Outer	15.00 %	
Max tens	-0.23 ksi	
Max tens, wireinf	-0.93 ksi	
Center	70.00 %	
Max tens	-0.23 ksi	
Max tens, wireinf	-0.59 ksi	


STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



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Version: 12.01.00.57

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Sheet # 8

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PROJECT DESIGN PARAMETERS

MULTIPLIERS:

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	PRECAST	DECK
Prestress:	1.80	2.20
Self Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vut:	INCLUDED

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

	PRECAST	DECK
Strength	6.00 ksi	
Elasticity	4016.8 ksi	
Max comp	3.60 ksi	
Outer	15.00 %	
Max tens	-0.23 ksi	
Max tens, wireinf	-0.93 ksi	
Center	70.00 %	
Max tens	-0.23 ksi	
Max tens, wireinf	-0.59 ksi	

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

SERVICE III (Tension):


	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	0.75
Compression controlled sections	0.90
Tension controlled sections	0.90
Flexure Prestressed	0.75
Compression controlled sections	1.00
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid. (RH) = 75.0 %

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PROPERTIES

Span:1, Beam:1

PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac. Start LL/RL	12.51/13.52 ft
End LL/RL	12.51/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Exterior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch: Thickness	1.000 in
Width	48.000 in

GENERAL LOAD DATA:


DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.182	0.000	0.182	142.333	SIP
DC	Line	0.125	0.000	0.125	142.333	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2d): YES

Location	+ve	Moment	Shear
	2+Lane	1Lane	1Lane
0.0L	1.050	1.036(°)	1.071(°)
0.1L	1.050	1.036(°)	1.071(°)
0.2L	1.050	1.036(°)	1.071(°)
0.3L	1.050	1.036(°)	1.071(°)
0.4L	1.050	1.036(°)	1.071(°)
0.5L	1.050	1.036(°)	1.071(°)
0.6L	1.050	1.036(°)	1.071(°)
0.7L	1.050	1.036(°)	1.071(°)
0.8L	1.050	1.036(°)	1.071(°)
0.9L	1.050	1.036(°)	1.071(°)
1.0L	1.050	1.036(°)	1.071(°)


(°) Lever rule (C4.6.2.2.1)

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

		Sheet # 3	
Job #		Job #	
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		Date	

PRECAST SECTION PROPERTIES:

Area	1100.6 in ²
Total Height	78.00 in
Mom. of Inertia (I _{xx})	904567 in ⁴
Ht. of c.g.	34.60 in
Density	150.00 pcf
Self-weight	1146.5 plf
Mom. of Inertia (I _{yy})	82367.0 in ⁴
Poisson's Ratio	0.2
Thermal Coeff.	0.000006000 1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	I _{xx}	Ycg	Density	Eff. Width
	ft	plf	in ²	in	in ⁴	in	pcf	in
0.0L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.1L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.2L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.3L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.4L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.5L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.6L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.7L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.8L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
0.9L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7
1.0L	75.08	2398.3	2129.76	87.5	2160387	58.02	150.0	135.7

(#) Area, I_{xx}, and Ycg Of Total Section using E_{cf}/E_c = 0.8563


Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft	in	in	in	in	in	in	in
Precast: (At Release, using E _c = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, Yb, M(I _{xx}),	1100.6 in ² 34.60 in 904567 in ⁴	1164.1 in ² 33.15 in 947221 in ⁴	1164.1 in ² 33.14 in 947317 in ⁴	1169.4 in ² 32.98 in 953603 in ⁴	1169.4 in ² 32.95 in 955820 in ⁴	1169.4 in ² 32.91 in 958087 in ⁴	1169.4 in ² 32.87 in 960402 in ⁴	1169.4 in ² 32.87 in 960402 in ⁴
Composite: (At Final, using E _c = 4491.0ksi)	2129.8 in ² 58.02 in 2160387 in ⁴	2185.4 in ² 56.74 in 2296458 in ⁴	2185.4 in ² 56.74 in 2296622 in ⁴	2190.1 in ² 56.61 in 2312616 in ⁴	2190.1 in ² 56.60 in 2316316 in ⁴	2190.1 in ² 56.58 in 2320060 in ⁴	2190.1 in ² 56.56 in 2323850 in ⁴	2190.1 in ² 56.56 in 2323850 in ⁴

Span:1 Beam:1

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

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Job #		Job #	
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		Date	

Strength		PRECAST	DECK
Elasticity		6.00 ksi	5.50 ksi
Max comp		4490.96 ksi	3845.83 ksi
Outer		15.00 %	
Max tens		w/reinf -0.23 ksi	
Center		70.00 %	
Max tens		w/reinf -0.23 ksi	
Max tens		w/reinf -0.59 ksi	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f_c or 6.0 ksi.

STRESS LIMITS AT FINAL AFTER LOSSES:

Strength		PRECAST	DECK
Elasticity		7.50 ksi	5.50 ksi
Max comp		4500 ksi	3300 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

Max comp		PRECAST	DECK
		4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

Max comp		PRECAST	DECK
		3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_{LL}) (Art. 5.5.3.1):

Max comp		PRECAST	DECK
		3.00 ksi	- ksi


SERVICE III (Tension):

Max tens		PRECAST	DECK
		-0.52 ksi	-0.45 ksi


Span:1 Beam:1
PRESTRESSED STEEL:
52 strands, 6/10-270K-L.L. Low relaxation strands
Depressed at 0.40L (36.93 ft from member end)

END PATTERN (Ycg = 7.69 in):

10 @ 3.000 in	12 @ 5.000 in	10 @ 7.000 in	4 @ 9.000 in
---------------	---------------	---------------	--------------

		Sheet # 7
Job #		
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Please see theory section for complete explanation.

		Sheet # 8
Job #		
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SHEARMOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 1, SERVICE I

Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.65	14.23	28.47	42.70	56.93	71.17
Self wt. :	M	0.0	239.6	289.8	1045.2	1858.1	2438.7	2903.2
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DL-Prec. :	M	0.0	64.2	77.6	279.9	497.6	653.0	746.3
DC(Max)	V	21.8	20.9	20.7	17.5	13.1	8.7	4.4
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	261.6	316.5	1141.3	2028.9	2663.0	3043.4
Haunch (Max)	V	89.1	85.3	84.5	71.3	53.5	35.6	17.8
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	46.2	55.8	201.3	357.9	469.7	559.2
DC(Max)	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	415.8	502.9	1806.1	3190.1	4151.8	4722.5
LL + I :	V	151.4	147.0	146.0	130.4	109.5	88.5	59.2
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Mmx	151.4	147.1	146.1	130.9	111.5	93.1	75.8
Total :	M+	-0.0	410.8	496.3	1744.9	2972.3	3723.1	4038.1
Total :	V	0.0	1027.4	1242.6	4473.8	7932.5	10376.2	11836.2
Total :	M-	359.6	346.4	343.6	297.0	234.4	171.8	100.8
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Mmx	359.6	346.5	343.7	297.5	236.5	176.4	117.4
Total :	M	0.0	1022.4	1236.0	4412.5	7714.7	9947.5	11368.1

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
DL-Prec. :	M	746.3	653.0	497.6	279.9	77.6	64.2
DC(Max)	V	4.4	8.7	13.1	17.5	20.7	20.9
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3043.4	2663.0	2028.9	1141.3	316.5	261.6
Haunch (Max)	V	17.8	35.6	53.5	71.3	84.5	85.3
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	4722.5	4151.8	3190.1	1806.1	502.9	415.8
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
LL + I :	V	59.2	88.5	109.5	130.4	146.0	151.4
DC(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	75.8	93.1	111.5	130.9	146.1	151.4
DC(Max)	M	4038.1	3723.1	2972.3	1744.9	496.2	410.8
DL-Comp :	M+	11836.2	10376.2	7932.5	4473.7	1242.6	1027.4
LL + I :	V	100.8	171.8	234.4	297.0	343.6	359.6
DC(Max)	M-	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	117.4	176.4	236.5	297.5	343.7	359.6
DC(Max)	M	11151.7	9947.5	7714.7	4412.5	1236.0	1022.4
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0

REACTIONS (kips), SERVICE I


Load Type	Left Support	Right Support
Self Wt.	81.6	81.6
Deck+Haunch	89.1	89.1
Diaphragm	0.0	0.0
DL-Prec.(DC)	21.8	21.8
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	94.3	94.3
DL-Comp.(DW)	0.0	0.0
Live	112.8	112.8
Pedestrian	0.0	0.0

Upward reactions are positive.
 Live Load reactions are per lane with no distribution factor and no impact.
 Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
 Non-composite load types are per beam.
 Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 1, SERVICE III

Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Location,	ft	0.00	3.00	3.65	14.23	28.47	42.70	56.93
Self wt. :	M	0.0	239.6	289.8	1045.2	1858.1	2438.7	2787.1
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DC(Max)	M	0.0	64.2	77.6	279.9	497.6	653.0	746.3
DL-Prec. :	V	21.8	20.9	20.7	17.5	13.1	8.7	4.4
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	261.6	316.5	1141.3	2028.9	2663.0	3043.4
Haunch (Max)	V	89.1	85.3	84.5	71.3	53.5	35.6	17.8
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	M	-0.0	46.2	55.8	120.3	357.9	469.7	559.2
DL-Comp :	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
LL + I :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M+	-0.0	332.6	402.3	1444.9	2552.0	3321.4	3778.0
LL + I :	V	121.1	117.6	116.8	104.3	87.6	70.8	47.3
DC(Max)	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	121.1	117.6	116.9	104.7	89.2	74.5	60.6
DC(Max)	M	-0.0	328.7	397.0	1395.9	2377.9	2978.5	3230.4
DL-Comp :	M+	0.0	944.2	1142.1	4112.5	7294.5	9545.9	10891.7
LL + I :	V	329.3	317.0	314.4	270.9	212.5	154.1	89.0
DC(Max)	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	329.3	317.1	314.5	271.3	214.2	157.8	102.2
DC(Max)	M	0.0	940.2	1136.8	4063.5	7120.3	9202.9	10344.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	81.6
DL-Prec. :	M	746.3	653.0	497.6	279.9	77.6	64.2
DC(Max)	V	4.4	8.7	13.1	17.5	20.9	21.8
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3043.4	2663.0	2028.9	1141.3	316.5	261.6
Haunch (Max)	V	17.8	35.6	53.5	71.3	84.5	89.1
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.7
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	3778.0	3321.4	2552.0	1444.9	402.3	332.6
DC(Max)	V	47.3	70.8	87.6	104.3	116.8	121.1
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	60.6	74.5	89.2	104.7	116.9	121.1
DC(Max)	M	3230.4	2978.5	2377.9	1395.9	397.0	328.7
DL-Comp. :	M+	10891.7	9545.9	7294.5	4112.5	7294.5	944.2
LL + I :	V	89.0	154.1	212.5	270.9	314.4	370.0
DC(Max)	M-	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	102.2	157.8	214.2	271.3	314.5	371.1
DC(Max)	M	10344.1	9202.9	7120.3	4063.5	7120.3	940.2
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 1, STRENGTH I
Shears: Kips, Moments: kt

	Location, Self wt. :	ft	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
M	0.00	0.00	299.5	362.3	1306.4	2322.6	3048.4	3483.9	3629.0	71.17
V	102.0	97.7	96.8	81.6	61.2	40.8	20.4	0.0	0.0	0.0
M	0.00	215.6	260.9	940.6	1672.3	2194.8	2508.4	2612.9	2612.9	0.0
V	73.4	70.3	69.7	58.7	44.1	29.4	14.7	0.0	0.0	0.0
(Min)	0.00	80.2	97.0	349.8	621.9	816.3	932.9	971.8	971.8	0.0
DC(Max)	V	27.3	26.2	25.9	21.8	16.4	10.9	5.5	0.0	0.0
DL-Prec. :	M	0.00	57.7	69.9	251.9	447.8	587.7	671.7	699.7	0.0
DC(Min)	V	19.7	18.8	18.7	15.7	11.8	7.9	3.9	0.0	0.0
DL-Prec. :	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec. :	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Deck + :	M	111.4	106.7	105.7	89.1	66.8	44.5	22.3	0.0	0.0
Haunch (Max)	V	0.00	327.1	395.6	1426.6	2536.1	3328.7	3804.2	3962.7	0.0
Deck + :	M	0.00	235.5	284.8	1027.1	1826.0	2396.7	2739.0	2853.2	0.0
Haunch (Min)	V	80.2	76.8	76.1	64.1	48.1	32.1	16.0	0.0	0.0
Diaphragm :	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Max)	V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	M	-0.00	57.7	69.8	251.7	447.4	587.2	671.1	699.0	0.0
DC(Max)	V	19.6	18.8	18.6	15.7	11.8	7.9	3.9	0.0	0.0
DL-Comp :	M	-0.00	41.5	50.2	181.2	322.1	422.8	483.2	503.3	0.0
DC(Min)	V	14.1	13.5	13.4	11.3	8.5	5.7	2.8	0.0	0.0
DW(Max)	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	M	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	M+	-0.00	727.7	880.0	3160.7	5582.6	7265.6	8264.5	8551.8	0.0
LL + I :	V	264.9	257.2	255.5	228.2	191.6	154.9	103.6	66.9	0.0
LL + I :	M-	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	0.00
LL + I :	Vmx	264.9	257.4	255.7	229.1	195.2	163.0	132.6	103.9	0.0
LL + I :	M	-0.00	718.9	868.4	3053.6	5201.6	6515.4	7066.6	6926.5	0.0
Total :	M+	0.00	1492.1	1804.7	6495.3	11510.6	15046.2	17156.5	17814.4	0.0
Total :	V	525.2	506.5	502.5	436.5	347.8	259.0	155.6	66.9	0.0
Total :	M-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total :	Vmx	525.2	506.7	502.7	437.4	351.3	267.1	184.6	103.9	0.0
Total :	M	0.00	1483.4	1793.2	6388.1	11129.6	14296.0	15958.7	16189.1	0.0

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location, Self wt. :	ft	85.40	99.63	113.87	128.10	138.69	139.33
(Max)	M	3483.9	3048.4	2322.6	1306.4	362.3	299.5
Self wt. :	V	20.4	40.8	61.2	81.6	96.8	97.7
	M	2508.4	2194.8	1672.3	940.6	260.9	215.6



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
(Min)	V	14.7	29.4	44.1	58.7	69.7	70.3
DL-Prec. :	M	932.9	816.3	621.9	349.8	97.0	80.2
DC(Max)	V	5.5	10.9	16.4	21.8	25.9	26.2
DL-Prec. :	M	671.7	587.7	447.8	251.9	69.9	57.7
DC(Min)	V	3.9	7.9	11.8	15.7	18.7	18.8
DL-Prec. :	M	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	V	0.00	0.00	0.00	0.00	0.00	0.00
DL-Prec. :	M	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00
Deck + :	M	3804.2	3328.7	2536.1	1426.6	395.6	327.1
Haunch (Max)	V	22.3	44.5	66.8	89.1	105.7	106.7
Deck + :	M	2739.0	2396.7	1826.0	1027.1	284.8	235.5
Haunch (Min)	V	16.0	32.1	48.1	64.1	76.1	76.8
Diaphragm :	M	0.00	0.00	0.00	0.00	0.00	0.00
(Max)	V	0.00	0.00	0.00	0.00	0.00	0.00
Diaphragm :	M	0.00	0.00	0.00	0.00	0.00	0.00
(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	M	671.1	587.2	447.4	251.7	69.8	57.7
DC(Max)	V	3.9	7.9	11.8	15.7	18.6	18.8
DL-Comp :	M	483.2	422.8	322.1	181.2	50.2	41.5
DC(Min)	V	2.8	5.7	8.5	11.3	13.4	13.5
DL-Comp :	M	0.00	0.00	0.00	0.00	0.00	0.00
DW(Max)	V	0.00	0.00	0.00	0.00	0.00	0.00
DL-Comp :	M	0.00	0.00	0.00	0.00	0.00	0.00
DW(Min)	V	0.00	0.00	0.00	0.00	0.00	0.00
LL + I :	M+	8264.5	7265.6	5582.6	3160.7	880.0	727.7
LL + I :	V	103.6	154.9	191.6	228.2	255.5	257.2
LL + I :	M-	0.00	0.00	0.00	0.00	-0.00	-0.00
LL + I :	Vmx	132.6	163.0	195.2	229.1	255.7	257.4
LL + I :	M	7066.6	6515.4	5201.6	3053.6	868.4	718.9
Total :	M+	17156.5	15046.2	11510.6	6495.3	1804.7	1492.1
Total :	V	155.6	259.0	347.8	436.5	502.5	506.5
Total :	M-	0.00	0.00	0.00	0.00	0.00	0.00
Total :	Vmx	184.6	267.1	351.3	437.4	502.7	506.7
Total :	M	15958.7	14296.0	11129.6	6388.1	1793.2	1483.4

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	102.0	102.0
Deck+Haunch	111.4	111.4
Diaphragm	0.0	0.0
DL-Prec (DC)	27.3	27.3
DL-Comp (DW)	0.0	0.0
DL-Comp (DC)	117.9	117.9
DL-Comp (DW)	0.0	0.0
Live	197.4	197.4

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DESIGN SUMMARY

Span: 1, Beam: 1, Exterior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	142.33
Release Length,	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	52	
	Draped:	16
	Straight:	36
Concrete Strength:	ftci:	6.0* ksi
	fc:	7.5 ksi
	ftct:	5.5 ksi
Initial losses:		8.57 %
Final losses:		12.74 %

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f_c or 6.0 ksi.

Specification		
Allowable	Computed	Location Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)		
Precast Bot (compression)	3.600	3.572 Trans OK
Outer	15.00 %	
Precast Top w/ no reinf. (tension)	-0.232	-0.569 Trans
Precast Top w/ reinf. (tension)	-0.929	
Center	70.00 %	
Precast Top w/ no reinf. (tension)	-0.232	0.153 0.2L/0.8L
Precast Top w/ reinf. (tension)	-0.588	
Strength I (Art. 3.4.1, 5.7.3.1.1)	19873.61	17814.37 Midspan Status OK
Ult. Moment (k.ft)		
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	Provided detailed report.	
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed Status OK
Max. Debond per Row	40.00 %	40.00 %
Max. Debond Total	25.00 %	7.69 %

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.745	Midspan	2.475	0.077	Midspan			
Precast Top	4.500	3.575	Midspan	3.375	3.034	Midspan			
Precast Bot	4.500	2.851	Transfer	3.375	2.974	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	0.000	Bearing						
Precast Top	-0.520	-0.256	Transfer						
Precast Bot	-0.520	-0.504	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.851	Midspan
Precast Bot							3.000	1.406	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.849	1.80	10.528	2.20	12.868
Self Wt.	-2.744	1.85	-5.077	2.40	-6.586
Deck + Haunch			-2.680	2.30	-6.165
DL-Prec. (DC)			-0.657	3.00	-1.972
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.195	3.00	-0.586
DL-Comp. (DW)			0.000	3.00	0.000
Live Load					
Total	3.105		1.919		-2.441

Positive values indicate upward deflection.



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Sheet # 1
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PROPERTIES
Span:1, Beam:2
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.52/13.52 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck	Thickness	8.500 in
Haunch:	Thickness	1.000 in
	Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST


UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.091	0.000	0.091	142.333	SIP
DC	Line	0.125	0.000	0.125	142.333	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	In ²
------	--------	-----------------



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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.d): YES

Location	+ve		Moment		Shear	
	2-Lane	1-Lane	1-Lane	2-Lane	1-Lane	1-Lane
0.0L	0.937	0.604	0.937	1.210	0.916	0.916
0.1L	0.937	0.604	0.937	1.210	0.916	0.916
0.2L	0.937	0.604	0.937	1.210	0.916	0.916
0.3L	0.937	0.604	0.937	1.210	0.916	0.916
0.4L	0.937	0.604	0.937	1.210	0.916	0.916
0.5L	0.937	0.604	0.937	1.210	0.916	0.916
0.6L	0.937	0.604	0.937	1.210	0.916	0.916
0.7L	0.937	0.604	0.937	1.210	0.916	0.916
0.8L	0.937	0.604	0.937	1.210	0.916	0.916
0.9L	0.937	0.604	0.937	1.210	0.916	0.916
1.0L	0.937	0.604	0.937	1.210	0.916	0.916


Pedestrian	0.167	(Calculated)
Comp. DC	0.167	(Calculated)
Comp. DW	0.167	(Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:



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Total Height	78.00	in
Mom. of inertia (Ixx)	904567	in4
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of inertia (Iyy)	82367.0	in4
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:


Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in2	in	in4	in	pcf	in
0.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.1L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.2L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.3L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.4L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.5L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.6L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.7L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.8L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.9L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
1.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4

(#) Area, Ixx, and Ycg Of Total Section using EdfEc = 0.8563
Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft	in	in	in	in	in	in	in
Precast (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, Ixx, Yb, MI(Ixx)	1100.6 in2 34.60 in 904567 in4	1164.1 in2 33.15 in 947221 in4	1164.1 in2 33.14 in 947317 in4	1169.4 in2 32.98 in 953603 in4	1169.4 in2 32.95 in 955820 in4	1169.4 in2 32.87 in 958087 in4	1169.4 in2 32.87 in 960402 in4	1169.4 in2 32.87 in 960402 in4
Composite (At Final, using Ec = 4491.0ksi)	2287.2 in2 59.75 in 2254683 in4	2342.9 in2 58.52 in 2400783 in4	2342.9 in2 58.52 in 2400783 in4	2347.5 in2 58.40 in 2417779 in4	2347.5 in2 58.38 in 2421612 in4	2347.5 in2 58.37 in 2425489 in4	2347.5 in2 58.35 in 2429411 in4	2347.5 in2 58.35 in 2429411 in4

Span:1, Beam:2
STRESS LIMITS (Art. 5.9.4):
STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

Strength	PRECAST	ksi
	6.00	



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Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.93	ksi
Center	70.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.
STRESS LIMITS AT FINAL AFTER LOSSES:

Strength	PRECAST	DECK	ksi
Elasticity	7.50	5.50	
	4490.96	3845.83	

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

Max comp	PRECAST	DECK	ksi
	4.50	3.30	

STRESS LIMITS AT FINAL 2 (P/S + DL):

Max comp	PRECAST	DECK	ksi
	3.38	2.47	

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

Max comp	PRECAST	DECK	ksi
	3.00	-	


SERVICE III (Tension):

Max tens	PRECAST	DECK	ksi
	-0.52	-0.45	

Span:1, Beam:2
PRESTRESSED STEEL:
52 strands, 6/10-270K-LL, Low relaxation strands
Depressed at 0.40L (56.93 ft from member end)

END PATTERN (Ycg = 7.69 in):

10 @ 3.000 in	12 @ 5.000 in	10 @ 7.000 in	4 @ 9.000 in
7 @ 11.000 in	5 @ 13.000 in	3 @ 15.000 in	1 @ 17.000 in



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MID PATTERN (Vcg = 5.23 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 10 @ 7,000 in | 4 @ 9,000 in

SHIELDING AND REDUCED INITIAL PULLS:

Group	Strands	End	Heights	Mid	End	Shielding	Mid	Distance to center	Initial Frac	Pull Puff/Str
1	2	3,000 in	3,000 in	3,000 in	4,000 in		0.00 ft	10,000 in	75.0 %	43.9 kips
28	2	3,000 in	3,000 in	3,000 in	4,000 in		0.00 ft	18,000 in	75.0 %	43.9 kips

Check for Art. 5.11.4.3 (debond termination distances): OK

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	11.284 in ²
Trans. Len bonded	3,000 ft
Trans. Len debonded	3,000 ft
Dev. Len bonded	11.733 ft
Dev. Len debonded	14.666 ft
Holloddown Force	8.232 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	2285.0 kips
Beam Shring (PL/AE)	0.835 in


Span:1, Beam:2
ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	(LB)	Beam Vol(C.Y.)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
7401.441	740	5477.066	40.291	163179.203	1017.554	0.000

Span:1, Beam:2
REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi

Stirrups:



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# legs	Size	f _y (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	6.5486	No
2	US#4(M13)	60.0	0.40	12.00	6.5486	25.1535	No
2	US#4(M13)	60.0	0.40	18.00	25.1535	49.7726	No
2	US#4(M13)	60.0	0.40	24.00	49.7726	92.5604	No
2	US#4(M13)	60.0	0.40	18.00	92.5604	117.1795	No
2	US#4(M13)	60.0	0.40	12.00	117.1795	135.7844	No
2	US#4(M13)	60.0	0.40	6.00	135.7844	142.3330	No

LOSSES

Note: Values are calculated at Midspan

Str. area	11.2840 in ²
Ycg	5.23 in
P_init	2285.0 kips
Ecc	29.37 in
Days to release	0.75
Rel. Humid. (RH)	75.0 %
E _s	28500.0 ksi
E _{ci}	4017 ksi

AASHTO LOSSES

Elastic Shortening ** 17.35 ksi (Eq 5.9.5.2.3a-1). (fcgp= 2.445 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads		-9.21 ksi	0.00 ksi
due to Composite Loads		-0.93 ksi	0.00 ksi
due to Live Loads		-5.81 ksi	0.00 ksi

Time Dependent Losses (Approximate Method (Art 5.9.5.3))


	Initial	Final
Steel relaxation	0.00 ksi	2.40 ksi (Eq 5.9.5.3-1)
Concrete shrinkage	0.00 ksi	8.14 ksi (Eq 5.9.5.3-1)
Concrete creep	0.00 ksi	14.09 ksi (Eq 5.9.5.3-1)
Sub-total	17.35 ksi	8.68 ksi (4.28 %)
Total Prestress Losses		26.02 ksi (12.85 %)

Prestressing Stress Limit Check (Table 5.9.3.1)

Initial f_{pe} = 202.5 ksi < 0.75 f_{pu}, OK

Initial f_{pe} = 176.5 ksi < 0.80 f_{py}, OK

** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	46.2	55.8	201.3	357.9	469.7	559.2
DC(Max)	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	297.1	359.3	1290.4	2279.1	2966.2	3374.0
LL + I :	V	130.7	126.9	126.1	112.6	94.5	76.4	51.1
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	130.7	127.0	126.2	113.1	96.3	80.4	65.4
Total :	M	-0.0	293.5	354.5	1246.6	2123.6	2660.0	2885.0
Total :	M+	0.0	929.6	1124.5	4049.7	7184.5	9404.5	10732.0
Total :	V	346.1	333.2	330.4	284.9	223.8	162.6	94.2
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	V	346.1	333.3	330.6	285.4	225.5	166.6	108.5
Total :	M	0.0	926.1	1119.7	4005.9	7028.9	9098.2	10492.4

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	113.87	128.10	138.69	139.33	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	81.6
DL-Prec :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	102.7
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	3374.0	2966.2	2279.1	1290.4	359.3	297.1
LL + I :	V	51.1	76.4	94.5	112.6	126.1	130.7
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	51.1	76.4	94.5	112.6	126.1	130.7
LL + I :	M	2885.0	2660.0	2123.6	1246.6	354.5	293.5
Total :	M+	10732.0	9404.5	7184.5	4049.7	1124.5	929.6
Total :	V	94.2	162.6	223.8	284.9	330.4	336.1
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	108.5	166.6	225.5	285.4	330.6	333.3
Total :	M	10243.0	9098.2	7028.9	4005.9	1119.7	926.1



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 2, STRENGTH I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	14.23	28.47	42.70	56.93	71.17
Self wt. :	M	0.0	299.5	362.3	1306.4	2322.6	3048.4	3483.9
(Max)	V	102.0	97.7	96.8	81.6	61.2	40.8	20.4
Self wt. :	M	0.0	215.6	260.9	940.6	1672.3	2194.8	2612.9
DL-Prec :	M	73.4	70.3	69.7	58.7	44.1	29.4	14.7
DC(Max)	V	19.2	18.4	18.2	15.4	11.5	7.7	3.8
DL-Prec :	M	0.0	40.6	49.1	177.2	315.1	413.5	492.3
DC(Min)	V	13.8	13.3	13.1	11.1	8.3	5.5	2.8
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	377.1	456.1	1644.8	2924.2	3838.0	4386.2
Haunch (Max)	V	128.4	123.0	121.8	102.7	77.0	51.4	25.7
Deck + :	M	0.0	271.5	328.4	1184.3	2105.4	2763.3	3158.1
Diaphragm (Min)	V	92.5	88.6	87.7	74.0	55.5	37.0	18.5
(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	57.7	69.8	251.7	447.4	587.2	671.1
DC(Max)	V	19.6	18.8	18.6	15.7	11.8	7.9	3.9
DL-Comp :	M	-0.0	41.5	50.2	181.2	322.1	422.8	483.2
DC(Min)	V	14.1	13.5	13.4	11.3	8.5	5.7	2.8
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	285.9	277.6	275.8	246.4	206.8	167.2	111.8
LL + I :	V	-0.0	-0.0	-0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	285.9	277.8	276.0	247.3	210.7	175.9	143.1
LL + I :	M	-0.0	642.0	775.6	2727.0	4645.3	5818.7	6310.9
Total :	M+	0.0	1440.6	1742.4	6271.8	11117.3	14536.5	16578.2
Total :	V	555.2	535.5	531.2	461.8	368.3	274.9	165.6
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	555.2	535.7	531.5	462.7	372.2	283.6	196.9
Total :	M	0.0	1432.8	1732.1	6176.1	10777.0	13866.5	15508.4

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	3483.9	3048.4	2322.6	1306.4	362.3	299.5
(Max)	V	20.4	40.8	61.2	81.6	96.8	102.0
Self wt. :	M	2508.4	2194.8	1672.3	940.6	260.9	215.6



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	792.2	958.2	3446.5	6101.8	7989.5	9102.6
	V	298.0	287.0	284.6	192.9	134.1	81.6	29.0
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	298.0	287.0	284.6	245.5	192.9	140.4	87.8
	M	0.0	792.2	958.2	3446.5	6101.8	7965.8	9320.3

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	98.4
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	1744.6	1551.2	1196.4	687.2	193.0	159.7
	V	38.5	48.0	63.7	73.2	80.2	80.6
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M	44.7	54.2	63.7	73.2	80.2	80.6
	Vmx	1680.6	1527.5	1196.4	687.2	193.0	159.7
Total :	M+	9102.6	7989.5	6101.8	3446.5	958.2	792.2
	V	81.6	134.1	192.9	245.5	284.6	287.0
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	87.8	140.4	192.9	245.5	284.6	287.0
	M	9038.7	7965.8	6101.8	3446.5	958.2	792.2




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DESIGN SUMMARY

Span: 1, Beam: 2, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	142.33
Release Length,	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	52	
	Draped:	16
	Straight:	36
Concrete Strength:	f'cd:	6.0* ksi
	f'c:	7.5 ksi
	f'cd:	5.5 ksi
Initial losses:	8.57 %	
Final losses:	12.85 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.572	Trans	OK
Outer	15.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.569	Trans	
Precast Top w/ reinf. (tension)	-0.929			
Center	70.00 %			
Precast Top w/ no reinf. (tension)	-0.232	0.153	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k.ft)	20009.05	17218.05	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	40.00 %		OK
Max. Debond Total	25.00 %	7.69 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.607	Midspan	2.475	0.069	Midspan			
Precast Top	4.500	3.594	Midspan	3.375	3.170	Midspan			
Precast Bot	4.500	2.857	Transfer	3.375	2.966	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.253	Transfer						
Precast Bot	-0.520	-0.471	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.756	Midspan
Precast Bot							3.000	1.436	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.849	1.80	10.528	2.20	12.868
Self Wt.	-2.744	1.85	-5.077	2.40	-6.586
Deck + Haunch			-3.090	2.30	-7.108
DL-Prec. (DC)			-0.462	3.00	-1.387
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.187	3.00	-0.561
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	3.105		1.712		-2.774

Positive values indicate upward deflection.



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PROPERTIES

Span:1, Beam:3
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.52/13.52 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck	Thickness	8,500 in
Haunch:	Thickness	1,000 in
	Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST


UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.091	0.000	142.333	SIP	
DC	Line	0.125	0.000	0.125	142.333	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	In ²
------	--------	-----------------



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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.d): YES

Location	+ve		Moment		Shear	
	2+Lane	1Lane	2+Lane	1Lane	2+Lane	1Lane
0.0L	0.937	0.604	0.937	0.604	1.210	0.916
0.1L	0.937	0.604	0.937	0.604	1.210	0.916
0.2L	0.937	0.604	0.937	0.604	1.210	0.916
0.3L	0.937	0.604	0.937	0.604	1.210	0.916
0.4L	0.937	0.604	0.937	0.604	1.210	0.916
0.5L	0.937	0.604	0.937	0.604	1.210	0.916
0.6L	0.937	0.604	0.937	0.604	1.210	0.916
0.7L	0.937	0.604	0.937	0.604	1.210	0.916
0.8L	0.937	0.604	0.937	0.604	1.210	0.916
0.9L	0.937	0.604	0.937	0.604	1.210	0.916
1.0L	0.937	0.604	0.937	0.604	1.210	0.916


Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

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Total Height	78.00	in
Mom. of inertia (Ixx)	904567	in4
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of inertia (Iyy)	82367.0	in4
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:


Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in2	in	in4	in	pcf	in
0.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.1L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.2L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.3L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.4L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.5L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.6L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.7L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.8L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.9L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
1.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4

(#) Area, Ixx, and Ycg Of Total Section using EdfEc = 0.8563
 Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, Ixx, Yb, MI(Ixx)	1100.6 in2 34.60 in 904567 in4	1164.1 in2 33.15 in 947221 in4	1164.1 in2 33.14 in 947317 in4	1169.4 in2 32.98 in 953603 in4	1169.4 in2 32.95 in 955820 in4	1169.4 in2 32.87 in 958087 in4	1169.4 in2 32.87 in 960402 in4	1169.4 in2 32.87 in 960402 in4
Composite: (At Final, using Ec = 4491.0ksi)	2287.2 in2 59.75 in 2254683 in4	2342.9 in2 58.52 in 2400783 in4	2342.9 in2 58.52 in 2400783 in4	2347.5 in2 58.40 in 2417779 in4	2347.5 in2 58.38 in 2425489 in4	2347.5 in2 58.37 in 2425489 in4	2347.5 in2 58.35 in 2429411 in4	2347.5 in2 58.35 in 2429411 in4

Span:1, Beam:3
 STRESS LIMITS (Art. 5.9.4):
 STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

Strength	PRECAST	ksi
	6.00	

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Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.93	ksi
Center	70.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.
 STRESS LIMITS AT FINAL AFTER LOSSES:

Strength	PRECAST	DECK	ksi
Elasticity	7.50	5.50	
	4490.96	3845.83	

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

Max comp	PRECAST	DECK	ksi
	4.50	3.30	

STRESS LIMITS AT FINAL 2 (P/S + DL):

Max comp	PRECAST	DECK	ksi
	3.38	2.47	

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

Max comp	PRECAST	DECK	ksi
	3.00	-	


SERVICE III (Tension):

Max tens	PRECAST	DECK	ksi
	-0.52	-0.45	

Span:1, Beam:3
 PRESTRESSED STEEL:
 52 strands, 6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L (56.93 ft from member end)

END PATTERN (Ycg = 7.69 in):

10 @ 3.000 in	12 @ 5.000 in	10 @ 7.000 in	4 @ 9.000 in
7 @ 11.000 in	5 @ 13.000 in	3 @ 15.000 in	1 @ 17.000 in



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MID PATTERN (Vcg = 5.23 in):
(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 10 @ 7,000 in | 4 @ 9,000 in

SHIELDING AND REDUCED INITIAL PULLS:

Group	Strands	End	Heights	Mid	End	Shielding	Mid	Distance to center	Initial Frac	Pull Puff/Sr
1	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	10,000 in	75.0 %	43.9 kips
28	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	18,000 in	75.0 %	43.9 kips

Check for Art. 5.11.4.3 (debond termination distances): OK

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	11.284 in ²
Trans. Len bonded	3,000 ft
Trans. Len debonded	3,000 ft
Dev. Len bonded	11.733 ft
Dev. Len debonded	14.666 ft
Holloddown Force	8.232 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	2285.0 kips
Beam Shring (PL/AE)	0.835 in


Span:1, Beam:3
ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	(LB)	Beam Vol(C.Y.)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
7401.441	740	5477.066	40.291	163179.203	1017.554	0.000

Span:1, Beam:3
REINFORCING STEEL:

Tension steel:	
fy	60.0 ksi
Es	29000 ksi
fs	24.0 ksi

Stirrups:



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# legs	Size	fy (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	6.5486	No
2	US#4(M13)	60.0	0.40	12.00	6.5486	25.1535	No
2	US#4(M13)	60.0	0.40	18.00	25.1535	49.7726	No
2	US#4(M13)	60.0	0.40	24.00	49.7726	92.5604	No
2	US#4(M13)	60.0	0.40	18.00	92.5604	117.1795	No
2	US#4(M13)	60.0	0.40	12.00	117.1795	135.7844	No
2	US#4(M13)	60.0	0.40	6.00	135.7844	142.3330	No

LOSSES

Note: Values are calculated at Midspan

Str. area	11.2840 in ²
Ycg	5.23 in
P_init	2285.0 kips
Ecc	29.37 in
Days to release	0.75
Rel. Humid. (RH)	75.0 %
Es	28500.0 ksi
Ecl	4017 ksi

AASHTO LOSSES

Elastic Shortening ** 17.35 ksi (Eq 5.9.5.2.3a-1). (fcgp= 2,445 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads		-9.21 ksi	0.00 ksi
due to Composite Loads		-0.93 ksi	0.00 ksi
due to Live Loads		-5.81 ksi	0.00 ksi

Time Dependent Losses (Approximate Method (Art 5.9.5.3))


	Initial	Final
Steel relaxation	0.00 ksi	2.40 ksi (Eq 5.9.5.3-1)
Concrete shrinkage	0.00 ksi	8.14 ksi (Eq 5.9.5.3-1)
Concrete creep	0.00 ksi	14.09 ksi (Eq 5.9.5.3-1)
Sub-total	17.35 ksi	8.68 ksi (4.28 %)
Total Prestress Losses		26.02 ksi (12.85 %)

Prestressing Stress Limit Check (Table 5.9.3.1)

Initial fpi = 202.5 ksi < 0.75 fpu, OK

Initial fpe = 176.5 ksi < 0.80 fpy, OK

** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.



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SHEAR/MOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, SERVICE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Self wt. :	M	0.0	239.6	289.8	1045.2	2438.7	2787.1	2903.2
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DL-Prec. :	M	0.0	45.1	54.6	196.9	350.1	459.5	525.1
DC(Max)	V	15.4	14.7	14.6	12.3	9.2	6.1	3.1
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	301.7	364.9	1315.9	2339.3	3070.4	3655.2
Haunch (Max)	V	102.7	98.4	97.5	82.2	61.6	41.1	20.5
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	-0.0	46.2	55.8	201.3	357.9	469.7	536.9
DC(Max)	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	371.3	449.1	1613.0	2848.9	3707.8	4217.5
LL + I :	V	163.4	158.6	157.6	140.8	118.2	95.6	63.9
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M	163.4	158.7	157.7	141.3	120.4	100.5	81.8
Total :	M	-0.0	366.9	443.2	1558.3	2654.5	3324.9	3606.2
Total :	V	0.0	1003.9	1214.3	4372.2	7754.3	10146.1	11575.5
Total :	M-	378.8	364.9	362.0	313.1	247.4	181.7	107.0
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	378.8	365.1	362.1	313.6	249.6	186.7	124.8
Total :	M	0.0	999.5	1208.4	4317.6	7559.8	9763.2	10964.3

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	139.33	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
DL-Prec. :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	98.4
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	4217.5	3707.8	2848.9	1613.0	449.1	371.3



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SHEAR/MOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, SERVICE III
Shears: kips, Moments: kft

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	63.9	95.6	118.2	140.8	157.6	163.4
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	11575.5	10146.1	7754.3	4372.2	1214.3	1003.9
Haunch (Max)	V	107.0	181.7	247.4	313.1	362.0	364.9
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	124.8	186.7	249.6	313.6	362.1	365.1
DC(Max)	V	10964.3	9763.2	7559.8	4317.6	1208.4	999.5


REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	81.6	81.6
Deck+Haunch	102.7	102.7
Diaphragm	0.0	0.0
DL-Prec.(DC)	15.4	15.4
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	94.3	94.3
DL-Comp.(DW)	0.0	0.0
Live	112.8	112.8
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	3.65	14.23	28.47	42.70	56.93
Self wt. :	M	0.0	239.6	289.8	1045.2	2438.7	2787.1	2903.2
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DL-Prec. :	M	0.0	45.1	54.6	196.9	350.1	459.5	525.1
DC(Max)	V	15.4	14.7	14.6	12.3	9.2	6.1	3.1
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	301.7	364.9	1315.9	2339.3	3070.4	3655.2
Haunch (Max)	V	102.7	98.4	97.5	82.2	61.6	41.1	20.5
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
(Min)	14.7	29.4	44.1	58.7	69.7	70.3	73.4
DL-Prec :	656.4	574.3	437.6	246.1	68.3	56.4	-0.0
DC(Max)	3.8	7.7	11.5	15.4	18.2	18.4	19.2
DL-Prec :	472.6	413.5	315.1	177.2	49.1	40.6	-0.0
DC(Min)	2.8	5.5	8.3	11.1	13.1	13.3	13.8
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	4386.2	3838.0	2924.2	1644.8	456.1	377.1	0.0
Haunch (Max)	25.7	51.4	77.0	102.7	121.8	123.0	128.4
Deck + :	3158.1	2763.3	2105.4	1184.3	328.4	271.5	0.0
Haunch (Min)	18.5	37.0	55.5	74.0	87.7	88.6	92.5
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	671.1	587.2	447.4	251.7	69.8	57.7	0.0
DC(Max)	3.9	7.9	11.8	15.7	18.6	18.8	19.6
DL-Comp :	483.2	422.8	322.1	181.2	50.2	41.5	0.0
DC(Min)	2.8	5.7	8.5	11.3	13.4	13.5	14.1
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	7380.7	6488.6	4985.6	2822.7	785.9	649.8	-0.0
V	111.8	167.2	206.8	246.4	275.8	277.6	285.9
LL + I :	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	143.1	175.9	210.7	247.3	276.0	277.8	285.9
Vmx	6310.9	5818.7	4645.3	2727.0	775.6	642.0	-0.0
Total :	16578.2	14536.5	11117.3	6271.8	1742.4	1440.6	0.0
V	165.6	274.9	368.3	461.8	531.2	535.5	555.2
Total :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	196.9	283.6	372.2	462.7	531.5	535.7	555.2
Vmx	15508.4	13866.5	10777.0	6176.1	1732.1	1432.8	0.0
M							

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	102.0	102.0
Deck+Haunch	128.4	128.4
Diaphragm	0.0	0.0
DL-Prec (DC)	19.2	19.2
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	117.9	117.9
DL-Comp (DW)	0.0	0.0
Live	197.4	197.4



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Load Type	Left Support	Right Support
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 3, FATIGUE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft							
Self wt. :	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
(Max)	0.0	239.6	289.8	1045.2	1858.1	2438.7	2787.1	2903.2
Self wt. :	81.6	78.2	77.4	65.3	49.0	32.6	16.3	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	45.1	54.6	196.9	350.1	459.5	525.1	547.0
DC(Max)	15.4	14.7	14.6	12.3	9.2	6.1	3.1	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	0.0	301.7	364.9	1315.9	2339.3	3070.4	3509.0	3655.2
Haunch (Max)	102.7	98.4	97.5	82.2	61.6	41.1	20.5	0.0
Deck + :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	-0.0	46.2	55.8	201.3	357.9	469.7	536.9	559.2
DC(Max)	15.7	15.1	14.9	12.6	9.4	6.3	3.1	0.0
DL-Comp :	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	0.0	159.7	193.0	687.2	1196.4	1551.2	1744.6	1759.9
V	82.6	80.6	80.2	73.2	63.7	48.0	38.5	29.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	82.6	80.6	80.2	73.2	63.7	54.2	44.7	35.3
Vmx	0.0	159.7	193.0	687.2	1196.4	1527.5	1680.6	1655.7
M								

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DESIGN SUMMARY

Span: 1, Beam: 3, Interior beam

Beam type:	I-Girder	FIB-78
Precast Length:	ft	142.33
Release Length:	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es:	ksi	28500.0
No. of strands:	52	
	Draped:	16
	Straight:	36
Concrete Strength:	f'cd:	6.0* ksi
	f'c:	7.5 ksi
	f'cd:	5.5 ksi
Initial losses:	8.57 %	
Final losses:	12.85 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be less than 0.8 * f'c or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.572	Trans	OK
Outer	15.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.569	Trans	
Precast Top w/ reinf. (tension)	-0.929			
Center	70.00 %			
Precast Top w/ no reinf. (tension)	-0.232	0.153	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k-ft)	20009.05	17218.05	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment				
Debonding Limits (Art. 5.11.4.3)				
Max. Debond per Row	Allowable	Computed		Status
Max. Debond Total	40.00 %	40.00 %		OK
	25.00 %	7.69 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.607	Midspan	2.475	0.069	Midspan			
Precast Top	4.500	3.594	Midspan	3.375	3.170	Midspan			
Precast Bot	4.500	2.857	Transfer	3.375	2.966	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	-0.000	Bearing						
Precast Top	-0.520	-0.253	Transfer						
Precast Bot	-0.520	-0.471	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.756	Midspan
Precast Bot							3.000	1.436	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.849	1.80	10.528	2.20	12.868
Self Wt.	-2.744	1.85	-5.077	2.40	-6.586
Deck + Haunch			-3.090	2.30	-7.108
DL-Prec. (DC)			-0.462	3.00	-1.387
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.187	3.00	-0.561
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	3.105		1.712		-2.774

Positive values indicate upward deflection.

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PROPERTIES

Span:1, Beam:4

PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top	48,000 in	Bot	38,000 in
thick	Top	3,000 in	Bot	7,000 in
Stems	No	1		
	Top	7,000 in		
	Bot	7,000 in		
Shear width		7,000 in		

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.52/13.52 ft
	End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width
TOPPING DATA:

Deck	Thickness	8.500 in
Haunch:	Thickness	1.000 in
	Width	48,000 in

GENERAL LOAD DATA:
DEAD LOADS ON PRECAST
UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.091	0.000	0.091	142.333	SIP
DC	Line	0.125	0.000	0.125	142.333	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 5:08 P.M.

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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):
Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2d): YES

Location	+ve		Moment		Shear	
	2-Lane	1-Lane	1-Lane	2-Lane	1-Lane	1-Lane
0.0L	0.937	0.604	0.937	1.210	0.916	0.916
0.1L	0.937	0.604	0.937	1.210	0.916	0.916
0.2L	0.937	0.604	0.937	1.210	0.916	0.916
0.3L	0.937	0.604	0.937	1.210	0.916	0.916
0.4L	0.937	0.604	0.937	1.210	0.916	0.916
0.5L	0.937	0.604	0.937	1.210	0.916	0.916
0.6L	0.937	0.604	0.937	1.210	0.916	0.916
0.7L	0.937	0.604	0.937	1.210	0.916	0.916
0.8L	0.937	0.604	0.937	1.210	0.916	0.916
0.9L	0.937	0.604	0.937	1.210	0.916	0.916
1.0L	0.937	0.604	0.937	1.210	0.916	0.916

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)


Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)
RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Area	1100.6 in ²
------	------------------------

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 5:08 P.M.

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Total Height	78.00	in
Mom. of inertia (Ixx)	904567	in4
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of inertia (Iyy)	82367.0	in4
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:


Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in2	in	in4	in	pcf	in
0.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.1L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.2L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.3L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.4L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.5L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.6L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.7L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.8L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.9L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
1.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4

(#) Area, Ixx, and Ycg Of Total Section using EdfEc = 0.8563
 Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, Ixx, Yb, MI(Ixx)	1100.6 in2 34.60 in 904567 in4	1164.1 in2 33.15 in 947221 in4	1164.1 in2 33.14 in 947317 in4	1169.4 in2 32.98 in 953603 in4	1169.4 in2 32.95 in 955820 in4	1169.4 in2 32.87 in 958087 in4	1169.4 in2 32.87 in 960402 in4	1169.4 in2 32.87 in 960402 in4
Composite: (At Final, using Ec = 4491.0ksi)	2287.2 in2 59.75 in 2254683 in4	2342.9 in2 58.52 in 2400783 in4	2342.9 in2 58.52 in 2400783 in4	2347.5 in2 58.40 in 2417779 in4	2347.5 in2 58.38 in 2425489 in4	2347.5 in2 58.37 in 2425489 in4	2347.5 in2 58.35 in 2429411 in4	2347.5 in2 58.35 in 2429411 in4

Span:1, Beam:4
 STRESS LIMITS (Art. 5.9.4):
 STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

Strength	PRECAST	ksi
	6.00	

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Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.93	ksi
Center	70.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.
 STRESS LIMITS AT FINAL AFTER LOSSES:

Strength	PRECAST	DECK	ksi
Elasticity	7.50	5.50	
	4490.96	3845.83	

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

Max comp	PRECAST	DECK	ksi
	4.50	3.30	

STRESS LIMITS AT FINAL 2 (P/S + DL):

Max comp	PRECAST	DECK	ksi
	3.38	2.47	

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

Max comp	PRECAST	DECK	ksi
	3.00	-	


SERVICE III (Tension):

Max tens	PRECAST	DECK	ksi
	-0.52	-0.45	

Span:1, Beam:4
 PRESTRESSED STEEL:
 52 strands, 6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L (56.93 ft from member end)

END PATTERN (Ycg = 7.69 in):

10 @ 3.000 in	12 @ 5.000 in	10 @ 7.000 in	4 @ 9.000 in
7 @ 11.000 in	5 @ 13.000 in	3 @ 15.000 in	1 @ 17.000 in



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MID PATTERN (Vcg = 5.23 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 10 @ 7,000 in | 4 @ 9,000 in

SHIELDING AND REDUCED INITIAL PULLS:

Group	Strands	End	Heights	Mid	End	Shielding	Mid	Distance to center	Initial Frac	Pull	Pull/Str
1	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	10,000 in	75.0 %	43.9 kips	
28	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	18,000 in	75.0 %	43.9 kips	

Check for Art. 5.11.4.3 (debond termination distances): OK

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	11.284 in ²
Trans. Len bonded	3,000 ft
Trans. Len debonded	3,000 ft
Dev. Len bonded	11.733 ft
Dev. Len debonded	14.666 ft
Holloddown Force	8.232 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	2285.0 kips
Beam Shring (PL/AE)	0.835 in


Span: 1, Beam: 4
ESTIMATED QUANTITIES

Prestressing (linear ft)	Strands (LB/1000ft)	(LB)	Beam Vol(C.Y.)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
7401.441	740	5477.066	40.291	163179.203	1017.554	0.000

Span: 1, Beam: 4
REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi

Stirrups:



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# legs	Size	f _y (ksi)	Area (in ²)	Spacing (in)	Start (ft)	End (ft)	Extends into Deck
2	US#4(M13)	60.0	0.40	6.00	0.0000	6.5486	No
2	US#4(M13)	60.0	0.40	12.00	6.5486	25.1535	No
2	US#4(M13)	60.0	0.40	18.00	25.1535	49.7726	No
2	US#4(M13)	60.0	0.40	24.00	49.7726	92.5604	No
2	US#4(M13)	60.0	0.40	18.00	92.5604	117.1795	No
2	US#4(M13)	60.0	0.40	12.00	117.1795	135.7844	No
2	US#4(M13)	60.0	0.40	6.00	135.7844	142.3330	No

LOSSES

Note: Values are calculated at Midspan

Str. area	11.2840 in ²
Ycg	5.23 in
P _{init}	2285.0 kips
Ecc	29.37 in
Days to release	0.75
Rel. Humid. (RH)	75.0 %
E _s	28500.0 ksi
E _{ci}	4017 ksi

AASHTO LOSSES

Elastic Shortening ** 17.35 ksi (Eq 5.9.5.2.3a-1). (fcgp= 2.445 ksi)

	Elastic Gains	Gains	Adjustment
due to Precast Loads		-9.21 ksi	0.00 ksi
due to Composite Loads		-0.93 ksi	0.00 ksi
due to Live Loads		-5.81 ksi	0.00 ksi

Time Dependent Losses (Approximate Method (Art 5.9.5.3))


	Initial	Final
Steel relaxation	0.00 ksi	2.40 ksi (Eq 5.9.5.3-1)
Concrete shrinkage	0.00 ksi	8.14 ksi (Eq 5.9.5.3-1)
Concrete creep	0.00 ksi	14.09 ksi (Eq 5.9.5.3-1)
Sub-total	17.35 ksi	8.68 ksi (4.28 %)
Total Prestress Losses		26.02 ksi (12.85 %)

Prestressing Stress Limit Check (Table 5.9.3.1)

Initial f_{pe} = 202.5 ksi < 0.75 f_{pu}, OK

Initial f_{pe} = 176.5 ksi < 0.80 f_{py}, OK

** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
(Min)	14.7	29.4	44.1	58.7	69.7	70.3	73.4
DL-Prec :	656.4	574.3	437.6	246.1	68.3	56.4	-0.0
DC(Max)	3.8	7.7	11.5	15.4	18.2	18.4	19.2
DL-Prec :	472.6	413.5	315.1	177.2	49.1	40.6	-0.0
DC(Min)	2.8	5.5	8.3	11.1	13.1	13.3	13.8
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	4386.2	3838.0	2924.2	1644.8	456.1	377.1	0.0
Haunch (Max)	25.7	51.4	77.0	102.7	121.8	123.0	128.4
Deck + :	3158.1	2763.3	2105.4	1184.3	328.4	271.5	0.0
Haunch (Min)	18.5	37.0	55.5	74.0	87.7	88.6	92.5
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	671.1	587.2	447.4	251.7	69.8	57.7	0.0
DC(Max)	3.9	7.9	11.8	15.7	18.6	18.8	19.6
DL-Comp :	483.2	422.8	322.1	181.2	50.2	41.5	0.0
DC(Min)	2.8	5.7	8.5	11.3	13.4	13.5	14.1
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	7380.7	6488.6	4985.6	2822.7	785.9	649.8	-0.0
V	111.8	167.2	206.8	246.4	275.8	277.6	285.9
LL + I :	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	143.1	175.9	210.7	247.3	276.0	277.8	285.9
Vmx	6310.9	5818.7	4645.3	2727.0	775.6	642.0	-0.0
Total :	16578.2	14536.5	11117.3	6271.8	1742.4	1440.6	0.0
V	165.6	274.9	368.3	461.8	531.2	535.5	555.2
Total :	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	196.9	283.6	372.2	462.7	531.5	535.7	555.2
Vmx	15508.4	13866.5	10777.0	6176.1	1732.1	1432.8	0.0
M							

REACTIONS (kips), STRENGTH I

Load Type	Left Support	Right Support
Self Wt.	102.0	102.0
Deck+Haunch	128.4	128.4
Diaphragm	0.0	0.0
DL-Prec (DC)	19.2	19.2
DL-Prec (DW)	0.0	0.0
DL-Comp (DC)	117.9	117.9
DL-Comp (DW)	0.0	0.0
Live	197.4	197.4



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Load Type	Left Support	Right Support
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 4, FATIGUE I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft							
Self wt. :	0.0	3.00	3.65	14.23	28.47	42.70	56.93	71.17
(Max)	0.0	239.6	289.8	1045.2	1858.1	2438.7	2787.1	2903.2
Self wt. :	81.6	78.2	77.4	65.3	49.0	32.6	16.3	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	45.1	54.6	196.9	350.1	459.5	525.1	547.0
DC(Max)	15.4	14.7	14.6	12.3	9.2	6.1	3.1	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	0.0	301.7	364.9	1315.9	2339.3	3070.4	3509.0	3655.2
Haunch (Max)	102.7	98.4	97.5	82.2	61.6	41.1	20.5	0.0
Deck + :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	-0.0	46.2	55.8	201.3	357.9	469.7	536.9	559.2
DC(Max)	15.7	15.1	14.9	12.6	9.4	6.3	3.1	0.0
DL-Comp :	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	0.0	159.7	193.0	687.2	1196.4	1551.2	1744.6	1759.9
V	82.6	80.6	80.2	73.2	63.7	48.0	38.5	29.0
LL + I :	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	82.6	80.6	80.2	73.2	63.7	54.2	44.7	35.3
Vmx	0.0	159.7	193.0	687.2	1196.4	1527.5	1680.6	1655.7
M								



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	792.2	958.2	3446.5	6101.8	7989.5	9102.6
	V	298.0	287.0	284.6	192.9	134.1	81.6	29.0
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	298.0	287.0	284.6	192.9	134.1	81.6	29.0
	M	0.0	792.2	958.2	3446.5	6101.8	7989.5	9102.6

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	98.4
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	1744.6	1551.2	1196.4	687.2	193.0	159.7
LL + :	V	38.5	48.0	63.7	73.2	80.2	80.6
LL + :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	V	0.0	0.0	0.0	0.0	0.0	0.0
Vmx	M	44.7	54.2	63.7	73.2	80.2	80.6
Total :	M	1680.6	1527.5	1196.4	687.2	193.0	159.7
Total :	V	9102.6	7989.5	6101.8	3446.5	958.2	792.2
Total :	M-	81.6	134.1	192.9	245.5	284.6	287.0
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	87.8	140.4	192.9	245.5	284.6	287.0
Total :	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	M	9038.7	7965.8	6101.8	3446.5	958.2	792.2




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DESIGN SUMMARY

Span: 1, Beam: 4, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	142.33
Release Length,	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	52	
	Draped:	16
	Straight:	36
Concrete Strength:	f'cd:	6.0* ksi
	f'c:	7.5 ksi
	f'cd:	5.5 ksi
Initial losses:	8.57 %	
Final losses:	12.85 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be less than 0.8 * f'c or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.572	Trans	OK
Outer	15.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.569	Trans	
Precast Top w/ reinf. (tension)	-0.929			
Center	70.00 %			
Precast Top w/ no reinf. (tension)	-0.232	0.153	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k-ft)	20009.05	17218.05	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	40.00 %		OK
Max. Debond Total	25.00 %	7.69 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.607	Midspan	2.475	0.069	Midspan			
Precast Top	4.500	3.594	Midspan	3.375	3.170	Midspan			
Precast Bot	4.500	2.857	Transfer	3.375	2.966	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	0.000	Bearing						
Precast Top	-0.520	-0.253	Transfer						
Precast Bot	-0.520	-0.471	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.756	Midspan
Precast Bot							3.000	1.436	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.849	1.80	10.528	2.20	12.868
Self Wt.	-2.744	1.85	-5.077	2.40	-6.586
Deck + Haunch			-3.090	2.30	-7.108
DL-Prec. (DC)			-0.462	3.00	-1.387
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.187	3.00	-0.561
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	3.105		1.712		-2.774

Positive values indicate upward deflection.

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Span:1, Beam:5
PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac.	Start LL/RI 13.52/13.52 ft End LL/RI 13.52/13.52 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Interior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck	Thickness	8,500 in
Haunch:	Thickness	1,000 in
	Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Line	0.091	0.000	142.333	SIP	
DC	Line	0.125	0.000	0.125	142.333	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

Area	1100.6	In ²
------	--------	-----------------

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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2.d): YES

Location	+ve		Moment		Shear	
	2+Lane	1Lane	2+Lane	1Lane	2+Lane	1Lane
0.0L	0.937	0.604	0.937	0.604	1.210	0.916
0.1L	0.937	0.604	0.937	0.604	1.210	0.916
0.2L	0.937	0.604	0.937	0.604	1.210	0.916
0.3L	0.937	0.604	0.937	0.604	1.210	0.916
0.4L	0.937	0.604	0.937	0.604	1.210	0.916
0.5L	0.937	0.604	0.937	0.604	1.210	0.916
0.6L	0.937	0.604	0.937	0.604	1.210	0.916
0.7L	0.937	0.604	0.937	0.604	1.210	0.916
0.8L	0.937	0.604	0.937	0.604	1.210	0.916
0.9L	0.937	0.604	0.937	0.604	1.210	0.916
1.0L	0.937	0.604	0.937	0.604	1.210	0.916

Pedestrian	0.167	(Calculated)
Comp. DC	0.167	(Calculated)
Comp. DW	0.167	(Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRECAST SECTION PROPERTIES:

Units: U.S. Units Design Code: AASHTO LRFD Printed on: September 10, 2014 @ 5:08 P.M.

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Total Height	78.00	in
Mom. of inertia (Ixx)	904567	in4
Ht. of c.g.	34.60	in
Density	150.00	pcf
Self-weight	1146.5	plf
Mom. of inertia (Iyy)	82367.0	in4
Poisson's Ratio	0.2	
Thermal Coeff.	0.000006000	1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	Ixx	Ycg	Density	Eff. Width
		plf	in2	in	in4	in	pcf	in
0.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.1L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.2L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.3L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.4L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.5L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.6L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.7L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.8L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
0.9L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4
1.0L	75.08	2589.9	2287.22	87.5	2254683	59.75	150.0	157.4

(#) Area, Ixx, and Ycg Of Total Section using Ed/Ec = 0.8563
 Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, in2	1100.6	1164.1	1164.1	1169.4	1169.4	1169.4	1169.4	1169.4
Yb, in	34.60	33.15	33.14	32.98	32.95	32.87	32.87	32.87
MI(Ixx), in4	904567	947221	947317	953603	955820	958087	960402	960402
Composite: (At Final, using Ec = 4491.0ksi)								
Area, in2	2287.2	2342.9	2342.9	2347.5	2347.5	2347.5	2347.5	2347.5
Yb, in	59.75	58.52	58.52	58.40	58.38	58.37	58.35	58.35
MI(Ixx), in4	2254683	2400613	2400783	2417779	2427612	2425489	2429411	2429411

Span:1, Beam:5
 STRESS LIMITS (Art. 5.9.4):
 STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

Strength	PRECAST	ksi
	6.00	

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Elasticity	4016.8	ksi
Max comp	3.60	ksi
Outer	15.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.93	ksi
Center	70.00	%
Max tens	-0.23	ksi
Max tens, w/reinf	-0.59	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.
 STRESS LIMITS AT FINAL AFTER LOSSES:

Strength	PRECAST	DECK	ksi
Elasticity	7.50	5.50	
	4490.96	3845.83	

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

Max comp	PRECAST	DECK	ksi
	4.50	3.30	

STRESS LIMITS AT FINAL 2 (P/S + DL):

Max comp	PRECAST	DECK	ksi
	3.38	2.47	

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

Max comp	PRECAST	DECK	ksi
	3.00		


SERVICE III (Tension):

Max tens	PRECAST	DECK	ksi
	-0.52	-0.45	

Span:1, Beam:5
 PRESTRESSED STEEL:
 52 strands, 6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L (56.93 ft from member end)

END PATTERN (Ycg = 7.69 in):

10 @ 3.000 in	12 @ 5.000 in	10 @ 7.000 in	4 @ 9.000 in
7 @ 11.000 in	5 @ 13.000 in	3 @ 15.000 in	1 @ 17.000 in



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Sheet # 5

Job #

MID PATTERN (Vcg = 5.23 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 10 @ 7,000 in | 4 @ 9,000 in

SHIELDING AND REDUCED INITIAL PULLS:

Group	Strands	End	Heights	Mid	End	Shielding	Mid	Distance to center	Initial Frac	Pull Puff/Str
1	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	10,000 in	75.0 %	43.9 kips
28	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	18,000 in	75.0 %	43.9 kips

Check for Art. 5.11.4.3 (debond termination distances): OK

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	11.284 in ²
Trans. Len bonded	3,000 ft
Trans. Len debonded	3,000 ft
Dev. Len bonded	11.733 ft
Dev. Len debonded	14.666 ft
Hollo-down Force	8.232 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	2285.0 kips
Beam Shring (PL/AE)	0.835 in

Span:1, Beam:5

ESTIMATED QUANTITIES


Prestressing (linear ft)	Strands (LB/1000ft)	(LB)	Beam Vol(C.Y.)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
7401.441	740	5477.066	40.291	163179.203	1017.554	0.000

Span:1, Beam:5

REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi

Stirrups:



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Sheet # 6

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MID PATTERN (Vcg = 5.23 in):

(A) Draped:

7 @ 3,000 in | 5 @ 5,000 in | 3 @ 7,000 in | 1 @ 9,000 in

(B) Straight:

10 @ 3,000 in | 12 @ 5,000 in | 10 @ 7,000 in | 4 @ 9,000 in

SHIELDING AND REDUCED INITIAL PULLS:

Group	Strands	End	Heights	Mid	End	Shielding	Mid	Distance to center	Initial Frac	Pull Puff/Str
1	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	10,000 in	75.0 %	43.9 kips
28	2	3,000 in	3,000 in	3,000 in	4,000 ft		0.00 ft	18,000 in	75.0 %	43.9 kips

Check for Art. 5.11.4.3 (debond termination distances): OK

Strand Diameter	0.600 in
Strand Area	0.217 in ²
Total Strand Area	11.284 in ²
Trans. Len bonded	3,000 ft
Trans. Len debonded	3,000 ft
Dev. Len bonded	11.733 ft
Dev. Len debonded	14.666 ft
Hollo-down Force	8.232 kips
Tensile Strength(fpu)	270.0 ksi
Initial Prestress = 0.75fpu	202.5 ksi
Initial Pull	2285.0 kips
Beam Shring (PL/AE)	0.835 in

Span:1, Beam:5

ESTIMATED QUANTITIES


Prestressing (linear ft)	Strands (LB/1000ft)	(LB)	Beam Vol(C.Y.)	Concrete Wt(LB)	Stirrups (LB)	Longitudinal Bars (LB)
7401.441	740	5477.066	40.291	163179.203	1017.554	0.000

Span:1, Beam:5

REINFORCING STEEL:

Tension steel:	
f _y	60.0 ksi
E _s	29000 ksi
f _s	24.0 ksi

Stirrups:



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	46.2	55.8	201.3	357.9	469.7	559.2
DC(Max)	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	297.1	359.3	1290.4	2279.1	2966.2	3374.0
LL + I :	V	130.7	126.9	126.1	112.6	94.5	76.4	51.1
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	130.7	127.0	126.2	113.1	96.3	80.4	65.4
Total :	M	-0.0	293.5	354.5	1246.6	2123.6	2660.0	2885.0
Total :	M+	0.0	929.6	1124.5	4049.7	7184.5	9404.5	10732.0
Total :	V	346.1	333.2	330.4	284.9	223.8	162.6	94.2
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	V	346.1	333.3	330.6	285.4	225.5	166.6	108.5
Total :	M	0.0	926.1	1119.7	4005.9	7028.9	9098.2	10492.4

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	113.87	128.10	138.69	139.33	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	81.6
DL-Prec :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	102.7
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	3374.0	2966.2	2279.1	1290.4	359.3	297.1
LL + I :	V	51.1	76.4	94.5	112.6	126.1	130.7
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	51.1	76.4	94.5	112.6	126.1	130.7
LL + I :	M	2885.0	2660.0	2123.6	1246.6	354.5	293.5
Total :	M+	10732.0	9404.5	7184.5	4049.7	1124.5	929.6
Total :	V	94.2	162.6	223.8	284.9	330.4	336.1
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	108.5	166.6	225.5	285.4	330.6	333.3
Total :	M	10243.0	9098.2	7028.9	4005.9	1119.7	926.1



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 5, STRENGTH I
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.00	14.23	28.47	42.70	56.93	71.17
Self wt. :	M	0.0	299.5	362.3	1306.4	2322.6	3048.4	3483.9
(Max)	V	102.0	97.7	96.8	81.6	61.2	40.8	20.4
Self wt. :	M	0.0	215.6	260.9	940.6	1672.3	2194.8	2612.9
DL-Prec :	M	73.4	70.3	69.7	58.7	44.1	29.4	14.7
DC(Max)	V	19.2	18.4	18.2	15.4	11.5	7.7	3.8
DL-Prec :	M	0.0	40.6	49.1	177.2	315.1	413.5	492.3
DC(Min)	V	13.8	13.3	13.1	11.1	8.3	5.5	2.8
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	377.1	456.1	1644.8	2924.2	3838.0	4386.2
Haunch (Max)	V	128.4	123.0	121.8	102.7	77.0	51.4	25.7
Deck + :	M	0.0	271.5	328.4	1184.3	2105.4	2763.3	3158.1
Haunch (Min)	V	92.5	88.6	87.7	74.0	55.5	37.0	18.5
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	57.7	69.8	251.7	447.4	587.2	671.1
DC(Max)	V	19.6	18.8	18.6	15.7	11.8	7.9	3.9
DL-Comp :	M	-0.0	41.5	50.2	181.2	322.1	422.8	483.2
DC(Min)	V	14.1	13.5	13.4	11.3	8.5	5.7	2.8
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	285.9	277.6	275.8	246.4	206.8	167.2	111.8
LL + I :	V	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx	285.9	277.8	276.0	247.3	210.7	175.9	143.1
LL + I :	M	-0.0	642.0	775.6	2727.0	4645.3	5818.7	6310.9
Total :	M+	0.0	1440.6	1742.4	6271.8	11117.3	14536.5	16578.2
Total :	V	555.2	535.5	531.2	461.8	368.3	274.9	165.6
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	555.2	535.7	531.5	462.7	372.2	283.6	196.9
Total :	M	0.0	1432.8	1732.1	6176.1	10777.0	13866.5	15508.4

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	3483.9	3048.4	2322.6	1306.4	362.3	299.5
(Max)	V	20.4	40.8	61.2	81.6	96.8	102.0
Self wt. :	M	2508.4	2194.8	1672.3	940.6	260.9	215.6



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Total :	M+	0.0	792.2	958.2	3446.5	6101.8	7989.5	9102.6
	V	298.0	287.0	284.6	192.9	134.1	81.6	29.0
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	298.0	287.0	284.6	192.9	134.1	81.6	29.0
	M	0.0	792.2	958.2	3446.5	6101.8	7989.5	9102.6

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	113.87	128.10	138.69	139.33	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
Self wt. :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	525.1	459.5	350.1	196.9	54.6	45.1
DC(Max)	V	3.1	6.1	9.2	12.3	14.6	14.7
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3509.0	3070.4	2339.3	1315.9	364.9	301.7
Haunch (Max)	V	20.5	41.1	61.6	82.2	97.5	98.4
Deck + :	M	0.0	0.0	0.0	0.0	0.0	0.0
Haunch (Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M+	1744.6	1551.2	1196.4	687.2	193.0	159.7
	V	38.5	48.0	63.7	73.2	80.2	80.6
LL + :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + :	M	44.7	54.2	63.7	73.2	80.2	80.6
	Vmx	1680.6	1527.5	1196.4	687.2	193.0	159.7
Total :	M+	9102.6	7989.5	6101.8	3446.5	958.2	792.2
	V	81.6	134.1	192.9	245.5	284.6	287.0
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Vmx	87.8	140.4	192.9	245.5	284.6	287.0
	M	9038.7	7965.8	6101.8	3446.5	958.2	792.2




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DESIGN SUMMARY

Span: 1, Beam: 5, Interior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	142.33
Release Length,	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	52	
	Draped:	16
	Straight:	36
Concrete Strength:	f'cd:	6.0* ksi
	f'c:	7.5 ksi
	f'cd:	5.5 ksi
Initial losses:	8.57 %	
Final losses:	12.85 %	

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f'c or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.572	Trans	OK
Outer	15.00 %			
Precast Top w/ no reinf. (tension)	-0.232	-0.569	Trans	
Precast Top w/ reinf. (tension)	-0.929			
Center	70.00 %			
Precast Top w/ no reinf. (tension)	-0.232	0.153	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	Provided	Required	Location	Status
Ult. Moment (k.ft)	20009.05	17218.05	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	40.00 %		OK
Max. Debond Total	25.00 %	7.69 %		OK

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Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.607	Midspan	2.475	0.069	Midspan			
Precast Top	4.500	3.594	Midspan	3.375	3.170	Midspan			
Precast Bot	4.500	2.857	Transfer	3.375	2.966	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	0.000	Bearing						
Precast Top	-0.520	-0.253	Transfer						
Precast Bot	-0.520	-0.471	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top				3.000	1.756	Midspan			
Precast Bot				3.000	1.436	Transfer			

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.849	1.80	10.528	2.20	12.868
Self Wt.	-2.744	1.85	-5.077	2.40	-6.586
Deck + Haunch			-3.090	2.30	-7.108
DL-Prec. (DC)			-0.462	3.00	-1.387
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.187	3.00	-0.561
DL-Comp. (DW)			0.000	3.00	0.000
Live Load	Not Included				
Total	3.105		1.712		-2.774

Positive values indicate upward deflection.

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PROPERTIES

Span:1, Beam:6

PRECAST DATA:

Section Id	FIB-78			
Type	I-Girder			
Fing width	Top 48,000 in	Bot 38,000 in		
thick	Top 3,000 in	Bot 7,000 in		
Stems	No 1			
	Top 7,000 in			
	Bot 7,000 in			
Shear width	7,000 in			

Minimum Thickness Criteria, Article 5.14.1.2.2 checked: OK.

GENERAL BRIDGE DATA:

Bridge Width*	75.08 ft
Curb-to-curb*	72.00 ft
Beam Spac. Start LL/RL	13.52/12.51 ft
End LL/RL	13.52/12.51 ft
Lane width	12.00 ft
Number of lanes	4
Interior/Exterior	Exterior
Start Skew Angle	-14.15 degrees
End Skew Angle	-14.15 degrees

*Average bridge width

TOPPING DATA:

Deck Thickness	8.500 in
Haunch: Thickness	1.000 in
Width	48,000 in

GENERAL LOAD DATA:

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
DC	Point	0.182	0.000	-	-	SJP
DC	Point	0.125	0.000	-	-	Haunch

Dead loads on composite: See Project Info for composite loads

GENERAL SPAN DATA:

		Sheet # 2
Job #		
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Overall length	142.333 ft
Release length	142.333 ft
Design length	142.333 ft

KERN POINTS:

Upper	58.35 in
Lower	15.66 in

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Type k, with deck

Include Rigid Cross Section Assumption (Art. 4.6.2.2d): YES

Location	+ve	Moment	Shear
	2+Lane	1Lane	1Lane
0.0L	1.050	1.037(#)	1.071(#)
0.1L	1.050	1.037(#)	1.071(#)
0.2L	1.050	1.037(#)	1.071(#)
0.3L	1.050	1.037(#)	1.071(#)
0.4L	1.050	1.037(#)	1.071(#)
0.5L	1.050	1.037(#)	1.071(#)
0.6L	1.050	1.037(#)	1.071(#)
0.7L	1.050	1.037(#)	1.071(#)
0.8L	1.050	1.037(#)	1.071(#)
0.9L	1.050	1.037(#)	1.071(#)
1.0L	1.050	1.037(#)	1.071(#)


(#) Lever rule (C4.6.2.2.1)

Pedestrian	0.167 (Calculated)
Comp. DC	0.167 (Calculated)
Comp. DW	0.167 (Calculated)

Dead Loads and Pedestrian Load distributed equally to all beams (Art. 4.6.2.2.1)

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

		Sheet # 3	
		Job #	
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PRECAST SECTION PROPERTIES:

Area	1100.6 in ²
Total Height	78.00 in
Mom. of Inertia (I _{xx})	904567 in ⁴
Ht. of c.g.	34.60 in
Density	150.00 pcf
Self-weight	1146.5 plf
Mom. of Inertia (I _{yy})	82367.0 in ⁴
Poisson's Ratio	0.2
Thermal Coeff.	0.000006000 1/F

COMPOSITE SECTION PROPERTIES:

Location	Bridge Width	Self-Weight	Area	Height	I _{xx}	Ycg	Density	Eff. Width
		plf	in ²	in	in ⁴	in	pcf	in
0.0L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.1L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.2L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.3L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.4L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.5L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.6L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.7L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.8L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
0.9L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8
1.0L	75.08	2398.5	2129.91	87.5	2160480	58.02	150.0	135.8

(#) Area, I_{xx}, and Ycg Of Total Section using E_{cf}/E_c = 0.8563


Use transformed strand and rebar: Strand Only

Location	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
	ft							
Precast: (At Release, using Ec = 4016.8ksi)	0.00	3.00	3.65	14.23	28.47	42.70	56.93	71.17
Area, Yb, M(I _{xx}),	in ²	in						
	1100.6	1163.6	1164.2	1165.4	1165.4	1165.4	1165.4	1165.4
	in	33.14	33.12	33.06	33.03	32.99	32.95	32.95
	in ⁴	904567	948641	951329	953565	955853	958193	958193
Composite: (At Final, using Ec = 4491.0ksi)	in ²	2185.2	2185.7	2186.8	2186.8	2186.8	2186.8	2186.8
Area, Yb, M(I _{xx}),	in	58.02	56.74	56.69	56.67	56.66	56.64	56.64
	in ⁴	2160480	2297497	2299094	2304829	2312309	2316119	2316119

Span:1 Beam:6

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

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		Job #	
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Strength	ksi
Elasticity	ksi
Max comp	ksi
Outer	ksi
Max tens	ksi
Center	ksi
Max tens	ksi
Max tens	ksi

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * f_c or 6.0 ksi.

STRESS LIMITS AT FINAL AFTER LOSSES:

PRECAST	DECK
Strength	ksi
Elasticity	ksi
Max comp	ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

PRECAST	DECK
Max comp	ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

PRECAST	DECK
Max comp	ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_{LL}) (Art. 5.5.3.1):

PRECAST	DECK
Max comp	ksi

SERVICE III (Tension):

PRECAST	DECK
Max tens	ksi


Span:1 Beam:6

PRESTRESSED STEEL:


49 strands, 6/10-270K-LL, Low relaxation strands
Depressed at 0.40L (36.93 ft from member end)

END PATTERN (Ycg = 7.61 in):

10 @ 3.00 in	12 @ 5.000 in	10 @ 7.000 in	1 @ 9.000 in
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		Job #	
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** Since the transformed section properties option has been selected, even though ES losses have been calculated explicitly here, they are not included as a part of stress calculations. Please see theory section for complete explanation.


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		Job #	
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		Date	

SHEARMOMENT ENVELOPE (&REACTIONS)

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 6, SERVICE I
 Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
Location,	ft	0.00	3.65	14.23	28.47	42.70	56.93	71.17
Self wt. :	M	0.0	239.6	289.8	1045.2	1858.7	2438.7	2903.2
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.3	0.2	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	261.7	316.5	1141.4	2029.2	2663.3	3170.6
Haunch (Max)	V	89.1	85.3	84.5	71.3	53.5	35.6	17.8
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	46.2	55.8	201.3	357.9	469.7	536.9
DC(Max)	V	15.7	15.1	14.9	12.6	9.4	6.3	3.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	415.9	502.9	1806.4	3190.6	4152.4	4723.3
	V	151.4	147.0	146.0	130.4	109.5	88.5	59.2
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Mmx	151.4	147.1	146.2	131.0	111.5	93.1	75.8
	V	-0.0	410.9	496.3	1745.2	2972.8	3723.7	4038.7
Total :	M+	0.0	963.3	1165.2	4194.3	7435.7	9724.2	11091.1
	V	338.1	325.8	323.1	279.6	221.3	163.1	96.5
Total :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total :	Mmx	338.1	325.9	323.2	280.1	223.4	167.7	113.0
	M	0.0	958.3	1158.5	4133.1	7218.0	9295.5	10406.4
								10591.7

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	81.6
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3043.8	2663.3	2029.2	1141.4	316.5	261.7
Haunch (Max)	V	17.8	35.6	53.5	71.3	84.5	85.3
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
DC(Max)	V	3.1	6.3	9.4	12.6	14.9	15.1
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	4723.3	4152.4	3190.6	1806.4	502.9	415.9
							-0.0



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	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
LL + I :	V 59.2	0.0	0.0	130.4	146.0	147.0	151.4
	M- 0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx 75.8	93.1	111.5	131.0	146.2	147.1	151.4
	M 4038.7	3723.7	2972.8	1745.2	496.3	410.9	-0.0
Total :	M+ 11091.1	9724.2	7435.7	4194.3	1165.2	963.3	0.0
	V 96.5	163.1	221.3	279.6	322.9	325.5	337.8
	M- 0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M 113.0	167.7	223.4	280.1	323.0	325.6	337.8
Total :	M 10406.4	9295.5	7218.0	4133.1	1158.5	958.3	0.0


REACTIONS (kips), SERVICE I

Load Type	Left Support	Right Support
Self Wt.	81.6	81.6
Deck+Haunch	89.1	89.1
Diaphragm	0.0	0.0
DL-Prec.(DC)	0.3	0.0
DL-Prec.(DW)	0.0	0.0
DL-Comp.(DC)	94.3	94.3
DL-Comp.(DW)	0.0	0.0
Live	112.8	112.8
Pedestrian	0.0	0.0

Upward reactions are positive.
Live Load reactions are per lane with no distribution factor and no impact.
Reactions are not multiplied by Load Modifiers (ductility, redundancy and operational importance).
Non-composite load types are per beam.
Composite and Pedestrian load types are per total bridge width.

SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 6, SERVICE III
Shears: kips, Moments: kft

	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
Location,	ft	0.0	3.00	3.65	14.23	28.47	42.70	56.93
Self wt. :	M	0.0	239.6	289.8	1045.2	1858.1	2438.7	2787.1
(Max)	V	81.6	78.2	77.4	65.3	49.0	32.6	16.3
DC(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	V	0.3	0.2	0.2	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	261.7	316.5	1141.4	2029.2	2663.3	3043.8
Haunch (Max)	V	89.1	85.3	84.5	71.3	53.5	35.6	17.8
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspace
(Max)	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M -0.0	46.2	55.8	201.3	357.9	469.7	536.9	559.2
DC(Max)	V 15.7	15.1	14.9	12.6	9.4	6.3	3.1	0.0
DL-Comp :	M 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+ -0.0	332.7	402.4	1445.1	2552.5	3322.0	3718.6	3910.0
	V 121.1	117.6	116.8	104.4	87.6	70.8	47.3	30.6
	M- -0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M 121.1	117.7	116.9	104.8	89.2	74.5	60.6	47.5
LL + I :	M -0.0	328.7	397.1	1396.1	2378.2	2979.0	3231.0	3166.9
	M+ 0.0	880.1	1064.6	3833.0	6797.6	8893.7	10146.4	10543.1
Total :	V 307.8	296.4	293.9	253.5	199.4	145.4	84.6	30.6
	M- 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M 307.8	296.5	294.0	253.9	201.1	149.1	97.9	47.5
Total :	M 0.0	876.1	1059.3	3784.0	6623.4	8550.7	9598.7	9800.0

	0.60L	0.70L	0.80L	0.90L	H/2	Trans	Bearing
Location,	ft	85.40	99.63	113.87	128.10	138.69	142.33
Self wt. :	M	2787.1	2438.7	1858.1	1045.2	289.8	239.6
(Max)	V	16.3	32.6	49.0	65.3	77.4	78.2
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	3043.8	2663.3	2029.2	1141.4	316.5	261.7
	V 17.8	35.6	53.5	71.3	84.5	85.3	89.1
Haunch (Max)	M	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	V	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	536.9	469.7	357.9	201.3	55.8	46.2
	V 3.1	6.3	9.4	12.6	14.9	15.1	15.7
DC(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	V	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	M	3778.6	3322.0	2552.5	1445.1	402.4	332.7
	V 47.3	70.8	87.6	104.4	116.8	117.6	121.1
LL + I :	M- 0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M 0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	Vmx 60.6	74.5	89.2	104.8	116.9	117.7	121.1
	M 3231.0	2979.0	2378.2	1396.1	397.1	328.7	-0.0
Total :	M+ 10146.4	8893.7	6797.6	3833.0	1064.6	880.1	0.0
	V 84.6	145.4	199.4	253.5	293.7	296.1	307.5
Total :	M- 0.0	0.0	0.0	0.0	0.0	0.0	0.0
	V 0.0	0.0	0.0	0.0	0.0	0.0	0.0
	M 979.9	149.1	201.1	253.9	293.8	296.2	307.5
Total :	M 9598.7	8550.7	6623.4	3784.0	1059.3	876.1	0.0



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SHEAR AND MOMENT ENVELOPE : Span : 1, Beam : 6, STRENGTH I
Shears: Kips, Moments: kt

Location, Self wt. :	ft	Bearing	Trans	H/2	0.10L	0.20L	0.30L	0.40L	Midspan
M	0.0	3.00	14.23	28.47	42.70	56.93	71.17		
V	102.0	299.5	362.3	1306.4	2322.6	3048.4	3483.9	3629.0	
(Max)		97.7	96.8	81.6	61.2	40.8	20.4	0.0	
Self wt. :	M	0.0	215.6	260.9	940.6	1672.3	2194.8	2508.4	2612.9
(Min)	V	73.4	70.3	69.7	58.7	44.1	29.4	14.7	
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Max)	V	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DC(Min)	V	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0
DW(Max)	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Prec. :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deck + :	M	0.0	327.1	395.7	1426.8	2536.5	3329.2	3804.7	3963.3
Haunch (Max)	V	111.4	106.7	105.7	89.1	66.8	44.6	22.3	0.0
Deck + :	M	0.0	235.5	284.9	1027.3	1826.3	2397.0	2739.4	2853.6
Haunch (Min)	V	80.2	76.8	76.1	64.2	48.1	32.1	16.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diaphragm :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	-0.0	57.7	69.8	251.7	447.4	587.2	671.1	699.0
DC(Max)	V	19.6	18.8	18.6	15.7	11.8	7.9	3.9	0.0
DL-Comp :	M	-0.0	41.5	50.2	181.2	322.1	422.8	483.2	503.3
DC(Min)	V	14.1	13.5	13.4	11.3	8.5	5.7	2.8	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Max)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DL-Comp :	M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DW(Min)	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	-0.0	727.8	880.1	3161.2	5583.5	7266.8	8265.8	8553.2
LL + I :	V	264.9	257.2	255.5	228.3	191.6	155.0	103.6	66.9
LL + I :	M-	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	M+	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LL + I :	V	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

		Sheet # 15	
		Job #	
Program: LEAP® CONSPAN® V8i (SELECTseries 5) Version: 12.01.00.57		SE Client Licenses Copyright © Bentley Systems, Inc. 1984 - 2012 www.bentley.com Phone: 1-800-778-4277	
File Name: Span12EB_ModifiedSpacing.csl		Designed KSM Date Sept/9/2013 Checked Date	

		Sheet # 16	
		Job #	
Program: LEAP® CONSPAN® V8i (SELECTseries 5) Version: 12.01.00.57		SE Client Licenses Copyright © Bentley Systems, Inc. 1984 - 2012 www.bentley.com Phone: 1-800-778-4277	
File Name: Span12EB_ModifiedSpacing.csl		Designed KSM Date Sept/9/2013 Checked Date	


DESIGN SUMMARY

Span: 1, Beam: 6, Exterior beam

Beam type:	I-Girder,	FIB-78
Precast Length,	ft	142.33
Release Length,	ft	142.33
Strand Pattern:	Straight/Draped	Depr. Point: 0.40 L
Strand:	6/10-270K-LL	
Strand Es,	ksi	28500.0
No. of strands:	49	
	Draped:	16
	Straight:	33
Concrete Strength:	fc't:	6.0* ksi
	fc:	7.5 ksi
	fc't:	5.5 ksi
Initial losses:		8.04 %
Final losses:		12.58 %

* FDOT section 4.3.1, C4 requires that concrete strength at release be lesser than 0.8 * fc or 6.0 ksi.

Specification	Allowable	Computed	Location	Status
Release Stresses (ksi) (Art. 5.9.4.1) (Using Advanced Settings)				
Precast Bot (compression)	3.600	3.569	Trans	OK
Outer	15.00	%		
Precast Top w/ no reinf. (tension)	-0.232	-0.595	Trans	
Precast Top w/ reinf. (tension)	-0.929	%		
Center	70.00	%		
Precast Top w/ no reinf. (tension)	-0.232	0.186	0.2L/0.8L	
Precast Top w/ reinf. (tension)	-0.588			
Strength I (Art. 3.4.1, 5.7.3.1.1)	18835.75	Required	Location	Status
Ult. Moment (k.ft)	16844.52	16844.52	Midspan	OK
Note: Check minimum reinforcement criteria (LRFD Art. 5.7.3.3.2) in Ultimate Moment	detailed report.			
Debonding Limits (Art. 5.11.4.3)	Allowable	Computed		Status
Max. Debond per Row	40.00 %	20.00 %		OK
Max. Debond Total	25.00 %	4.08 %		OK

		Sheet # 17	
		Job #	
Program: LEAP@ CONSPAN® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sept/9/2013	
		Checked	
File Name: Span12EB_ModifiedSpacing.csl		Date	
		SE Client Licenses	
		Copyright © Bentley Systems, Inc. 1984 - 2012	
		www.bentley.com	
		Phone: 1-800-778-4277	

Positive Moment Envelope Stresses (ksi) (Art. 3.4.1 and 5.9.4.2)

Specification	Allow	Final 1 Comp	Loc.	Allow	Final 2 Comp	Loc.	Allow	Final 3 Comp	Loc.
Service I Limit State - Compressive	Stresses	Only							
Topping Top	3.300	0.746	Midspan	2.475	0.077	Midspan			
Precast Top	4.500	3.163	Midspan	3.375	2.622	Midspan			
Precast Bot	4.500	2.891	Transfer	3.375	3.014	Transfer			
Service III Limit State - Tensile	Stresses	Only							
Topping Top	-0.446	0.000	Bearing						
Precast Top	-0.520	-0.319	Transfer						
Precast Bot	-0.520	-0.361	Midspan						
Fatigue I Limit State - Compressive	Stresses	Only							
Precast Top							3.000	1.645	Midspan
Precast Bot							3.000	1.426	Transfer

CAMBER / DEFLECTION: (PCI Design Handbook - 4th Ed. - Table 4.6.2)
0.5 x L = 71.17 ft

	Release	Mult	Erection	Mult	Final
Prestress	5.584	1.80	10.051	2.20	12.284
Self Wt.	-2.751	1.85	-5.089	2.40	-6.601
Deck + Haunch			-2.687	2.30	-6.180
DL-Prec. (DC)			-0.000	3.00	-0.000
Diaphragm			0.000	3.00	0.000
DL-Prec. (DW)			0.000	3.00	0.000
DL-Comp. (DC)			-0.196	3.00	-0.588
DL-Comp. (DW)			0.000	3.00	0.000
Live Load					
Total	2.833		2.079		-1.085

Positive values indicate upward deflection.

Export File Generated by CONSPAN v12.1.0

File Name: \\Lkmw00\pmwork3\Jobs\59219 - 14 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\Alternative 2 - Reversible Lanes\1. Superstructure\Span 12 Rev\Span 12 EB_ModifiedSpacing.csl

Code: AASHTO LRFD

Units: US Units, (KIPS, ft)

Number of Spans: 1

Left Curb Width: 1.5417

Right Curb Width: 1.5417

Span #	Span length	Number Of beams	Bridge Width
1	142.3330	5	92.6507
			92.6507

Abutment #: 1

Self Weight

Line 1 Girder 1 : 81.5894
 Line 1 Girder 2 : 81.5894
 Line 1 Girder 3 : 81.5894
 Line 1 Girder 4 : 81.5894
 Line 1 Girder 5 : 81.5894
 Self + Deck
 Line 1 Girder 1 : 88.2366
 Line 1 Girder 2 : 101.0697
 Line 1 Girder 3 : 101.0697
 Line 1 Girder 4 : 101.0697
 Line 1 Girder 5 : 88.2215

Dead Load DC on Precast

Line 1 Girder 1 : 12.8100
 Line 1 Girder 2 : 16.7241
 Line 1 Girder 3 : 16.7241
 Line 1 Girder 4 : 16.7241
 Line 1 Girder 5 : 16.5818

Dead Load DW on Precast

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000

Dead Load DC on Composite

Line 1 Girder 1 : 18.8591
 Line 1 Girder 2 : 18.8591
 Line 1 Girder 3 : 18.8591
 Line 1 Girder 4 : 18.8591
 Line 1 Girder 5 : 18.8591

Dead Load DW on Composite

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000

Live Load

Live Load Max +ve, Truck : 67.2785
 Live Load Max +ve, Lane : 45.5466

Abutment #: 2

Self Weight

Line 1 Girder 1 : 81.5894
 Line 1 Girder 2 : 81.5894
 Line 1 Girder 3 : 81.5894
 Line 1 Girder 4 : 81.5894
 Line 1 Girder 5 : 81.5894
 Self + Deck
 Line 1 Girder 1 : 88.2366
 Line 1 Girder 2 : 101.0697
 Line 1 Girder 3 : 101.0697
 Line 1 Girder 4 : 101.0697
 Line 1 Girder 5 : 88.2215

Dead Load DC on Precast

Line 1 Girder 1 : 12.8100
 Line 1 Girder 2 : 16.7241
 Line 1 Girder 3 : 16.7241
 Line 1 Girder 4 : 16.7241
 Line 1 Girder 5 : 16.5818

Dead Load DW on Precast

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000

Dead Load DC on Composite

Line 1 Girder 1 : 18.8591
 Line 1 Girder 2 : 18.8591
 Line 1 Girder 3 : 18.8591
 Line 1 Girder 4 : 18.8591
 Line 1 Girder 5 : 18.8591

Dead Load DW on Composite

Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000

Live Load

Live Load Max +ve, Truck : 67.2785
 Live Load Max +ve, Lane : 45.5466

APPENDIX C-4

SUBSTRUCTURE ANALYSIS


EOR:		I-4 PD&E St. Johns River Veterans Memorial Bridge	JOB NO.: 59219
MADE BY: CAM		CHECKED BY:	SHEET NO.:
DATE: 9/20/2013		DATE:	BACKCHECKED BY:



Pier 12 Reversible Lanes Dead Load Bearing Reactions


Bearing Line	Girder	Reaction (kips)	
1	1	-162.45	-370.70
1	2	-181.63	-397.03
1	3	-186.42	-401.82
1	4	-191.21	-406.61
1	5	-196.00	-411.40
1	6	-167.00	-353.71
2	1	-208.25	
2	2	-215.40	
2	3	-215.40	
2	4	-215.40	
2	5	-215.40	
2	6	-186.72	

Notes:
Reaction sign convention taken as positive upwards

		Sheet # 1
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PROJECT DATA

Project:	I4 Over St. John's River
User Job No.:	
Designer:	KSM
Date:	Sep/10/2013
Checker:	
Checked date:	FL
State:	
State Job No.:	Pier.
Structure type:	Upstation.
Pier View:	AASHTO LRFD (6th Edition, 2012)
Code:	I4 Over St. John's River Bridge - Pier 12R (EB)
Comments:	

		Sheet # 2
		Job #
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PIER GEOMETRY

Pier Info:	
Pier View:	Upstation.
Pier Type:	Multi Column

Cap Shape	
Cap Shape: Variable	
Top Elevations: Start = 47.28 ft end = 47.28 ft	
Depth(Z) = 54.00 in Skew angle = 14.15 Reduction of I = 1.000	

Variable Cap Properties		
Distance(X)	Height(Y)	
ft	in	
0.00	0.01	
1.25	72.00	
55.50	72.00	
1.25	0.01	


Column Shape : Rectangular Chamfered	
Number of columns: 2	

Column number 1	
Location from the left edge of the cap(X): 11.92 ft	
Elevations: bottom = 4.25 ft top = 47.28 ft Reduction of I = 1.000	
Column Bottom is Fixed	

Column Section Dimensions				
Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ
ft	in	in	in	in
0.00	72.00	48.00	12.00	12.00
43.03	72.00	48.00	12.00	12.00
				Linear

Column number 2	
Location from the left edge of the cap(X): 46.08 ft	
Elevations: bottom = 4.25 ft top = 47.28 ft Reduction of I = 1.000	
Column Bottom is Fixed	

Column Section Dimensions



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Dist from last(Y)	Width(X)	Depth(Z)	Chamfer(X)	Chamfer(Z)	Variation
ft	in	in	in	in	in
0.00	72.00	48.00	12.00	12.00	.....
43.03	72.00	48.00	12.00	12.00	Linear

Struts


Strut Shape : Rectangular
Number of struts: 1

Struts properties

Strut number 1
Elevations: start = 10.25 ft end = 10.25 ft
Depth(Z) = 24.00 in Height(Y) = 62.00 in Reduction of I = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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SUPERSTRUCTURE INFO

Superstructure info:

Total number of spans: 2
Span number rear to current pier: 1
Number of traffic lanes: 8
Barrier height : 32.00 in
Depth of slab : 8.50 in
Curb to curb distance: 0.000 99.990 ft


Beam info:

Height in	Section area in^2	Inertia (Ixx) in^4	Inertia (Iyy) in^4	Beam CG in
78.00	1100.58	903861.00	82270.00	34.63

Span #	Span length ft	Bridge Width ft
1	141.844	103.070
2	142.333	103.070

Units: US (English)

Design Code: AASHTO LRFD



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BEARING POINTS

Number of bearing lines: 2

Point	Distance ft
1	2.09
2	11.63
3	21.17
4	30.71
5	40.25
6	47.77
7	55.29


First bearing line Eccentricity = 1.21 ft

Point	Distance ft
1	2.70
2	13.34
3	23.98
4	34.62
5	45.26
6	55.90

Second bearing line Eccentricity = -1.21 ft

Units: US (English)

Design Code: AASHTO LRFD



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MATERIAL PROPERTIES

	Cap	Column	Footing
Concrete Type	normal	normal	normal
Concrete Strength (psi)	5500.00	5500.00	5500.00
Concrete Density (lb/ft³)	150.00	150.00	150.00
Concrete Modulus Ec (ksi)	3845.80	3845.80	3845.80
Steel Strength Fy (ksi)	60.00	60.00	60.00

Units: US (English)

Design Code: AASHTO LRFD

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DESIGN PARAMETERS

Resistance factors for reinf. concrete

Flexure and tension	0.90
Shear and torsion (normal)	0.90
Shear and torsion (lightweight)	0.70
Axial compression (ties)	0.75
Axial compression (spiral)	0.75
Compression in STM	0.70

Multi presence factors for live load

1 Lane	1.20
2 Lanes	1.00
3 Lanes	0.85
more than 3 Lanes	0.65

Dynamic load allowance IM

Truck	Lane	Fatigue
Cap	0.33	0.00
Column	0.33	0.15
Footing	0.00	0.00

Exposure factors	Clear cover	Clear side cover
Cap	1.00	2.00
Column	1.00	2.00
Footing	1.00	3.00

Degree of fixity in foundations for Moment Magnify Method: Ga = 5.00

SEISMIC DESIGN PARAMETERS

Strength Reduction factors for reinf. Concrete Seismic Design

Seismic Overstrength

Flexure and tension	1.30
Axial compression (ties)	1.30
Axial compression (spiral)	1.30

Response Modification Factor 5.00


Use core area for plastic hinging calculations.

Design Factors

Cap Design Factor	1.20
-------------------	------

Units: US (English)

Design Code: AASHTO LRFD

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Footing Design Factor 1.20

Plastic Hinge Moment

Use actual computed Plastic Hinging Moment for each column in all combinations.

Units: US (English)

Design Code: AASHTO LRFD



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LOADS

Pier Info:

Pier View: Upstation:

Load Cases: 103

Loadcase ID: DC1 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-318.84
1	2	Y	-153.67
1	3	Y	-153.67
1	4	Y	-153.67
1	5	Y	-146.01
1	6	Y	-138.35
1	7	Y	-311.26
2	1	Y	-324.13
2	2	Y	-162.58
2	3	Y	-162.58
2	4	Y	-162.58
2	5	Y	-162.58
2	6	Y	-324.18


Auto generation details:

Generated Dead Load

Slab weight = 150.00 pcf
Girder weight = 150.00 pcf
Wearing weight = Not included

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier12EB_Existing.rcp

Barter load = 418.00 plf

Loadcase ID: LL1 Name:

Multiplier = 1.000


Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.71
1	3	Y	-21.65
1	4	Y	-30.16
1	5	Y	-25.64
1	6	Y	107.33
1	7	Y	-221.42
2	1	Y	0.00
2	2	Y	-4.06
2	3	Y	-23.37
2	4	Y	-27.48
2	5	Y	46.86
2	6	Y	-151.90
1	1	Y	0.00
1	2	Y	-0.93
1	3	Y	-19.83
1	4	Y	-27.29
1	5	Y	-24.40
1	6	Y	99.97
1	7	Y	-204.53
2	1	Y	0.00
2	2	Y	-3.79
2	3	Y	-26.70
2	4	Y	-30.55
2	5	Y	51.46
2	6	Y	-168.06

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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Longitudinal Reaction: Simple Span Distribution		
Selected Vehicles:	Design Truck	
	Design Truck + Lane Load	
	Design Tandem + Lane Load	
	Two Design Trucks + Lane Load	
	Two Design Tandem + Lane Load	

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL2 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	-340.37
1	2	125.28
1	3	-53.65
1	4	-53.82
1	5	-20.70
1	6	0.00
1	7	0.00
2	1	0.00
2	2	0.00
2	3	0.00
2	4	0.00
2	5	0.00
2	6	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	Y	-175.28
1	2	Y	63.82
1	3	Y	-27.29
1	4	Y	-27.16
1	5	Y	-11.11
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Units: US (English)

Design Code: AASHTO LRFD



Sheet #13

Job #

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File Name:Pier12EB_Existing.rcp

Loadcase ID: LL3

Name:

Design Truck

Design Truck + Lane Load

Design Tandem + Lane Load

Two Design Trucks + Lane Load

Two Design Tandem + Lane Load


Bearing loads			
Line #	Bearing #	Dir	Load kips
1	1	Y	-188.64
1	2	Y	92.51
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	125.29
1	7	Y	-221.42
2	1	Y	-153.57
2	2	Y	73.59
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	69.05
2	6	Y	-149.03
2	7	Y	-173.70
1	1	Y	85.19
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	115.37
1	7	Y	-203.88
2	1	Y	-170.54
2	2	Y	81.72
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	76.68
2	6	Y	-165.50

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:



Sheet #14

Job #

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File Name:Pier12EB_Existing.rcp

Loadcase ID: LL4

Name:

Design Truck

Design Truck + Lane Load

Design Tandem + Lane Load

Two Design Trucks + Lane Load

Two Design Tandem + Lane Load

Bearing loads			
Line #	Bearing #	Dir	Load kips
1	1	Y	-246.68
1	2	Y	120.98
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-200.82
2	2	Y	96.23
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-227.14
1	2	Y	111.40
1	3	Y	0.00
1	4	Y	0.00

Transverse Positioning

Number of loaded lanes = all combinations

Live Load Positions = Constant Spacing

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36

Total number of Possible Combination = 401576

Loadcase ID: LL4

Name:

Multiplier = 1.000



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Line #	Bearing #	Dir	Load kips
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-223.01
2	2	Y	106.87
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL5 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-337.50
2	2	Y	108.72
2	3	Y	-59.00
2	4	Y	-48.56
2	5	Y	-7.08
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-173.86
2	2	Y	55.53
2	3	Y	-30.55
2	4	Y	-25.78
2	5	Y	-2.97
2	6	Y	0.00

Auto generation details:


Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Units: US (English)

Design Code: AASHTO LRFD



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Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL6 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.10
1	3	Y	-33.31
1	4	Y	-46.40
1	5	Y	-17.79
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-6.24
2	3	Y	-35.96
2	4	Y	-34.78
2	5	Y	-5.06
2	6	Y	0.00
2	7	Y	0.00
1	1	Y	-1.43
1	3	Y	-30.52
1	4	Y	-41.78
1	5	Y	-17.06
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-5.83
2	3	Y	-41.07



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Sheet # 18
Job #
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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution
Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load


Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL7 Name:
Multiplier = 1.000

Bearing loads



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Sheet # 19
Job #

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-8.71
2	3	Y	-50.18
2	4	Y	-59.00
2	5	Y	100.60
2	6	Y	-326.13
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-3.79
2	3	Y	-26.70
2	4	Y	-30.55
2	5	Y	51.46
2	6	Y	-168.06

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution


Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft

Units: US (English)

Design Code: AASHTO LRFD



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Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL8 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.28
1	3	Y	-38.66
1	4	Y	-53.85
1	5	Y	-45.78
1	6	Y	191.64
1	7	Y	-395.34
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.93
1	3	Y	-19.83
1	4	Y	-27.29
1	5	Y	-24.40
1	6	Y	99.97
1	7	Y	-204.53
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Version: 12.01.00.57
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Sheet # 21
Job #
Designed KSM
Date Sep/10/2013
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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL9 Name:
Multiplier = 1.000

Bearing loads			Load
Line #	Bearing #	Dir	kips
1	1	Y	0.00
1	2	Y	-1.07
1	3	Y	-33.31
1	4	Y	-46.37
1	5	Y	-17.84

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-6.22
2	3	Y	-35.94
2	4	Y	-34.80
2	5	Y	-5.08
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-1.42
1	3	Y	-30.48
1	4	Y	-41.79
1	5	Y	-17.10
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-5.81
2	3	Y	-41.05
2	4	Y	-39.66
2	5	Y	-4.58
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



Sheet #23

Job #

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Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL10 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -190.64
1	2	Y 70.17
1	3	Y -30.05
1	4	Y -30.14
1	5	Y -11.60
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -157.20
2	2	Y 50.64
2	3	Y -27.48
2	4	Y -22.62
2	5	Y -3.30
2	6	Y 0.00
2	7	Y -175.28
1	1	Y 63.82
1	2	Y -27.29
1	3	Y -27.16
1	4	Y -11.11
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -173.86
2	2	Y 55.53
2	3	Y -30.55
2	4	Y -25.78
2	5	Y -2.97
2	6	Y 0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #24

Job #

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	
	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL11 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 163.85
1	7	Y -289.55
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	4	Y	0.00
2	5	Y	90.30
2	6	Y	-194.88
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	150.87
1	7	Y	-266.61
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	100.28
2	6	Y	-216.42

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Units: US (English)

Design Code: AASHTO LRFD



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Job #

Loadcase ID: LL12 Name:
Multiplier = 1.000


Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.59
1	3	Y	-18.00
1	4	Y	-8.05
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-4.87
2	3	Y	-32.31
2	4	Y	-55.51
2	5	Y	100.60
2	6	Y	-326.13
1	1	Y	0.00
1	2	Y	-0.93
1	3	Y	-19.39
1	4	Y	-9.18
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-3.79
2	3	Y	-26.70
2	4	Y	-30.55
2	5	Y	51.46
2	6	Y	-168.06

Auto generation details:

Generated Live Load

Units: US (English)

Design Code: AASHTO LRFD



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Sheet # 27
Job #
Designed KSM
Date Sep/10/2013
Checked
Date

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL13 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	-17.00
1	5	Y	-9.64
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-337.50
2	2	Y	108.72
2	3	Y	-54.79
2	4	Y	-30.69
2	5	Y	-3.97
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00



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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:


Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL14 Name:
Multiplier = 1.000



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Two Design Trucks + Lane Load

Two Design Tandem + Lane Load

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Job #

Designed KSM

Date Sep/10/2013

Checked

Date

Bearing loads		Load kips
Line #	Bearing # Dir	
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 193.86
2	6	Y -418.41
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 100.28
2	6	Y -216.42

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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Two Design Trucks + Lane Load

Two Design Tandem + Lane Load

Sheet # 30

Job #

Designed KSM

Date Sep/10/2013

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Date

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL15 Name:

Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing # Dir		
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	350.15
1	7	Y	-526.18
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	180.58
1	7	Y	-271.36

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	196.11
1	7	Y	-294.70
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	110.57
2	6	Y	-192.60
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	180.58
1	7	Y	-271.36
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	122.79
2	6	Y	-213.88

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL16 Name:

Multiplier = 1.000



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Minimum Distance from Curb = 2.00 ft


Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL17 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing # Dir	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 292.54
1	7	Y -516.98
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 150.87
1	7	Y -266.61
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00



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File Name: Pier12EB_Existing.rcp

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL18 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing # Dir	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00



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Line #	Bearing #	Dir	Load kips
1	6	Y	43.04
1	7	Y	-112.71
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	168.91
2	6	Y	-327.56
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	47.67
1	7	Y	-124.83
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	100.28
2	6	Y	-216.42

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



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Sheet # 36
Job #

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Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL19 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.71
1	3	Y	-21.65
1	4	Y	-30.16
1	5	Y	-25.64
1	6	Y	207.46
1	7	Y	-371.88
2	1	Y	0.00
2	2	Y	-4.06
2	3	Y	-23.37
2	4	Y	-27.48
2	5	Y	-25.02
2	6	Y	-26.71
2	7	Y	0.00
1	1	Y	-0.93
1	2	Y	-19.83
1	3	Y	-27.29
1	4	Y	-24.40
1	5	Y	99.97
1	6	Y	-204.53
2	1	Y	0.00
2	2	Y	-3.79
2	3	Y	-26.70
2	4	Y	-30.55
2	5	Y	-28.35
2	6	Y	-29.03

Units: US (English)

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Job #

Designed KSM

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Date

File Name: **Pier12EB_Existing.rcp**

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL20 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dlr	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-172.26
2	2	Y	0.66
2	3	Y	-59.00

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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File Name: **Pier12EB_Existing.rcp**

Auto generation details:

Line #	Bearing #	Dlr	Load kips
2	4	Y	-59.00
2	5	Y	-47.65
2	6	Y	-6.17
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-88.39
2	2	Y	-0.37
2	3	Y	-30.55
2	4	Y	-30.55
2	5	Y	-25.22
2	6	Y	-2.56

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Units: US (English)

Design Code: AASHTO LRFD



Sheet #39

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Loadcase ID: LL21 Name:

Multiplier = 1.000


Bearing loads		Load
Line #	Bearing # Dir	kips
1	1	Y -174.38
1	2	Y 104.71
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -201.53
2	2	Y 117.72
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 137.16
2	6	Y -212.01
1	1	Y -193.14
1	2	Y 115.97
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -186.20
2	2	Y 108.77
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 70.95
2	6	Y -109.66

Auto generation details:

Generated Live Load

Units: US (English)

Design Code: AASHTO LRFD



Sheet #40

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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL22 Name:

Multiplier = 1.000

Bearing loads		Load
Line #	Bearing # Dir	kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 237.40
2	6	Y -413.51
1	1	Y 0.00
1	2	Y 0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	122.79
2	6	Y	-213.88

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL23 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	Y	-246.77
1	2	Y	148.18
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-197.25
2	2	Y	115.23
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-227.22
1	2	Y	136.44
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-219.05
2	2	Y	127.96
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:


Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL24 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.71
1	3	Y	-21.65
1	4	Y	-30.16
1	5	Y	-36.70
1	6	Y	93.22
1	7	Y	-221.42
2	1	Y	0.00
2	2	Y	-4.06
2	3	Y	-23.37
2	4	Y	-22.60
2	5	Y	65.76
2	6	Y	-149.03
1	1	Y	0.00
1	2	Y	-0.93
1	3	Y	-19.83
1	4	Y	-27.29
1	5	Y	-24.40
1	6	Y	99.97
1	7	Y	-204.53



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Line #	Bearing #	Dir	Load kips
2	1	Y	0.00
2	2	Y	-3.79
2	3	Y	-26.70
2	4	Y	-25.76
2	5	Y	73.72
2	6	Y	-165.50

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

- Design Truck
- Design Truck + Lane Load
- Design Tandem + Lane Load
- Two Design Trucks + Lane Load
- Two Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL25 Name:

Multiplier = 1.000



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Bearing loads		
Line #	Bearing #	Load kips
1	1	-188.64
1	2	91.80
1	3	-21.65
1	4	-30.16
1	5	-36.70
1	6	-32.07
1	7	0.00
2	1	-153.57
2	2	69.53
2	3	-23.37
2	4	-22.60
2	5	-3.29
2	6	0.00
2	7	-173.70
1	1	84.26
1	3	-19.83
1	4	-27.29
1	5	-24.40
1	6	-15.40
1	7	-0.65
2	1	-170.54
2	2	77.93
2	3	-26.70
2	4	-25.76
2	5	-2.96
2	6	0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing



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Bearing loads		
Line #	Bearing #	Load kips
1	1	0.00
1	2	-0.59
1	3	-18.00
1	4	-25.07
1	5	-9.61
1	6	104.17
1	7	-184.08
2	1	0.00
2	2	-4.87
2	3	-28.09
2	4	-37.64
2	5	38.45
2	6	-185.30
1	1	0.00
1	2	-0.93
1	3	-19.83
1	4	-27.16
1	5	-11.09
1	6	115.37
1	7	-203.88
2	1	0.00
2	2	-3.79
2	3	-26.70
2	4	-30.55
2	5	51.46
2	6	-168.06


Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL26 Name:

Multiplier = 1.000



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL27 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.89
1	3	Y	-27.69
1	4	Y	-38.55
1	5	Y	-14.83

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



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Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL28 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -2.01
1	2	Y -22.36
1	3	Y -30.03
1	4	Y -46.25
1	5	Y -20.64
1	6	Y 125.29
1	7	Y -221.42
2	1	Y -3.64
2	2	Y -22.96
2	3	Y -23.01
2	4	Y -3.70
2	5	Y 69.05
2	6	Y -149.03
1	1	Y -1.59
1	2	Y -21.38
1	3	Y -27.29
1	4	Y -27.16
1	5	Y -11.09
1	6	Y 115.37
1	7	Y -203.88
2	1	Y -3.33
2	2	Y -26.21
2	3	Y -26.21
2	4	Y -3.39
2	5	Y 76.68
2	6	Y -165.50

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL29 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 71.26
1	7	Y -97.90
2	1	Y -337.50
2	2	Y 108.72
2	3	Y -49.44

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	4	Y	-7.96
2	5	Y	58.72
2	6	Y	-90.77
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	78.92
1	7	Y	-108.42
2	1	Y	-173.86
2	2	Y	55.53
2	3	Y	-26.29
2	4	Y	-3.40
2	5	Y	54.25
2	6	Y	-83.86

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: LL30 Name:
Multiplier = 1.000


Line #	Bearing #	Dir	Load kips
1	1	Y	-340.37
1	2	Y	125.28
1	3	Y	-53.65
1	4	Y	-37.76
1	5	Y	-11.60
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.45
2	4	Y	-18.91
2	5	Y	-3.30
2	6	Y	0.00
1	1	Y	-175.28
1	2	Y	63.82
1	3	Y	-27.29
1	4	Y	-27.16
1	5	Y	-11.11
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.26
2	4	Y	-22.37
2	5	Y	-2.97
2	6	Y	0.00

Auto generation details:

Generated Live Load

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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL31 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.71
1	3	Y	-21.65
1	4	Y	-46.25
1	5	Y	-45.78
1	6	Y	191.64
1	7	Y	-395.34
2	1	Y	0.00
2	2	Y	-4.06
2	3	Y	-18.91
2	4	Y	-3.70
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.93



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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Auto generation details:

Generated Live Load

Loadcase ID: LL32 Name:

Multiplier = 1.000



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Bearing loads		Load kips
Line #	Bearing # Dir	
1	1 Y	-209.75
1	2 Y	125.95
1	3 Y	0.00
1	4 Y	-26.78
1	5 Y	-15.12
1	6 Y	0.00
1	7 Y	0.00
2	1 Y	-167.67
2	2 Y	97.94
2	3 Y	-5.84
2	4 Y	-24.73
2	5 Y	-4.30
2	6 Y	0.00
2	7 Y	-193.14
1	1 Y	115.97
1	2 Y	-0.58
1	3 Y	-23.51
1	4 Y	-14.50
1	5 Y	0.00
1	6 Y	0.00
1	7 Y	0.00
2	1 Y	-186.20
2	2 Y	108.77
2	3 Y	-5.59
2	4 Y	-29.26
2	5 Y	-3.87
2	6 Y	0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL33 Name:

Multiplier = 1.000

Bearing loads		Load kips
Line #	Bearing # Dir	
1	1 Y	-81.08
1	2 Y	54.44
1	3 Y	0.00
1	4 Y	0.00
1	5 Y	0.00
1	6 Y	0.00
1	7 Y	0.00
2	1 Y	-92.58
2	2 Y	60.54
2	3 Y	-9.59
2	4 Y	-51.06
2	5 Y	100.60
2	6 Y	-326.13
1	1 Y	-89.79
1	2 Y	60.29
1	3 Y	0.00
1	4 Y	0.00
1	5 Y	0.00
1	6 Y	0.00
1	7 Y	0.00

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	1	Y	-85.54
2	2	Y	55.93
2	3	Y	-4.27
2	4	Y	-27.16
2	5	Y	51.46
2	6	Y	-168.06

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL34 Name:

Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Checked

Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-0.91
1	3	Y	-27.69
1	4	Y	-38.57
1	5	Y	-14.79
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-7.50
2	3	Y	-43.22
2	4	Y	-41.80
2	5	Y	-6.08
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-1.43
1	3	Y	-30.52
1	4	Y	-41.78
1	5	Y	-17.06
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	0.00
2	2	Y	-5.83
2	3	Y	-41.07
2	4	Y	-39.63
2	5	Y	-4.56
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution


Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing

Units: US (English)

Design Code: AASHTO LRFD



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Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

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Job #

Designed KSM

Date Sep/10/2013

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Date

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL35 Name:
Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	Y	-28.24
1	2	Y	-3.80
1	3	Y	0.00
1	4	Y	-36.57
1	5	Y	-45.78
1	6	Y	191.64
1	7	Y	-395.34
2	1	Y	-25.35
2	2	Y	-1.31
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-26.00
1	2	Y	-3.50
1	3	Y	-0.44
1	4	Y	-18.11
1	5	Y	-24.40
1	6	Y	99.97
1	7	Y	-204.53
2	1	Y	-28.15
2	2	Y	-1.45
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Tandem + Lane Load Two Design Trucks + Lane Load Two Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL36 Name:
Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	Y	-156.83
1	2	Y	76.91
1	3	Y	0.00
1	4	Y	-17.00
1	5	Y	-9.64

Units: US (English)

Design Code: AASHTO LRFD



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Line # Bearing # Dir			Load kips
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-192.38
2	2	Y	39.18
2	3	Y	-54.79
2	4	Y	-30.69
2	5	Y	-3.97
2	6	Y	0.00
1	1	Y	-173.70
1	2	Y	85.19
1	3	Y	-0.44
1	4	Y	-17.96
1	5	Y	-11.11
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-173.86
2	2	Y	55.53
2	3	Y	-30.55
2	4	Y	-25.78
2	5	Y	-2.97
2	6	Y	0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load
	Two Design Trucks + Lane Load
	Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected



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Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL37 Name:

Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing #	Dir	Load kips
1	1	Y	-192.20
1	2	Y	53.16
1	3	Y	-36.64
1	4	Y	-30.14
1	5	Y	-11.60
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-153.57
2	2	Y	69.55
2	3	Y	-23.36
2	4	Y	-22.62
2	5	Y	-3.30
2	6	Y	0.00
2	7	Y	-175.28
1	1	Y	63.82
1	3	Y	-27.29
1	4	Y	-27.16
1	5	Y	-11.11
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-170.54
2	2	Y	77.95
2	3	Y	-26.68
2	4	Y	-25.78
2	5	Y	-2.97
2	6	Y	0.00



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Auto generation details:

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Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL38

Name:

Multiplier = 1.000

Beating loads

Line #	Bearing #	Dlr	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	138.59
1	7	Y	-208.26
2	1	Y	-216.26
2	2	Y	141.41
2	3	Y	0.00



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Auto generation details:

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Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Line #	Bearing #	Dlr	Load kips
2	4	Y	0.00
2	5	Y	112.97
2	6	Y	-196.77
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	153.49
1	7	Y	-230.65
2	1	Y	-111.86
2	2	Y	73.14
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	104.37
2	6	Y	-181.80



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Loadcase ID: LL39 Name:
Multiplier = 1.000


Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-423.50
2	2	Y	247.39
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-219.05
2	2	Y	127.96
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Units: US (English)

Design Code: AASHTO LRFD



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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL40 Name:
Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	Y	-316.62
1	2	Y	145.82
1	3	Y	-30.05
1	4	Y	-30.14
1	5	Y	-11.60
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-28.98
2	2	Y	-24.26
2	3	Y	-27.48
2	4	Y	-22.62
2	5	Y	-3.30
2	6	Y	0.00
1	1	Y	-175.28
1	2	Y	63.82

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	3	Y	-27.29
1	4	Y	-27.16
1	5	Y	-11.11
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-31.47
2	2	Y	-27.65
2	3	Y	-30.55
2	4	Y	-25.78
2	5	Y	-2.97
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution
Selected Vehicles:


Design Truck
Design Truck + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning
Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL41 Name:
Multiplier = 1.000



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Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-7.80
2	2	Y	-49.27
2	3	Y	-59.00
2	4	Y	-59.00
2	5	Y	-4.21
2	6	Y	-164.14
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-3.32
2	2	Y	-26.20
2	3	Y	-30.55
2	4	Y	-30.55
2	5	Y	-2.75
2	6	Y	-84.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution
Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load



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File Name: **Pier12EB_Existing.rcp**

Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL42 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-99.06
1	2	Y	29.39
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
2	1	Y	-336.56
2	2	Y	177.91
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-109.72
1	2	Y	32.55
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Job #
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Line #	Bearing #	Dir	Load kips
2	1	Y	-223.01
2	2	Y	106.87
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

- Design Truck
- Design Truck + Lane Load
- Design Tandem + Lane Load
- Two Design Trucks + Lane Load
- Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL43 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -431.15
2	2	Y 206.61
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
2	7	Y 0.00
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y -223.01
2	2	Y 106.87
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing



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Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -440.44
1	2	Y 216.01
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y -227.14
1	2	Y 111.40
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00

Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL44 Name:
Multiplier = 1.000



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Job #

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576


Loadcase ID: LL45 Name:

Multiplier = 1.000

Bearing loads		Load
Line #	Bearing # Dir	kips
1	1	Y -440.60
1	2	Y 264.57
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier12EB_Existing.rcp

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Job #

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Line #	Bearing # Dir	Load kips
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y -227.22
1	2	Y 136.44
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
1	7	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load
Two Design Trucks + Lane Load
Two Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



Sheet #75

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

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Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: BR1 Name:
Multiplier = 1.000


Cap loads			
Type	Dir	Arm ft	Mag1 x1/L
Moment	X		Mag2 x2/L
		-1618.34 k-ft	0.50

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57

Units: US (English)

Design Code: AASHTO LRFD



Sheet #76

Job #

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Line #	Bearing #	Dir	Load kips
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR2 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1 x1/L
Moment	X		Mag2 x2/L
		-1618.34 k-ft	0.50

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier12EB_Existing.rcp

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Line #	Bearing #	Dir	Load kips
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR3 Name:

Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34	k-ft	0.50	


Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR4 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68

Units: US (English)

Design Code: AASHTO LRFD



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Selected Live Load for BR generation

Line #	Bearing #	Dir	Load kips
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR5 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75

Units: US (English)

Design Code: AASHTO LRFD



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Program:

Version:

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File Name:

Loadcase ID: BR6

Name:

Pier12EB_Existing.rpt

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Job #

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Date

Line #	Bearing #	Dir	Load kips
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
2	1	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	2	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft



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File Name:

Loadcase ID: BR6

Name:

Pier12EB_Existing.rpt

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Job #

Designed KSM

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Multiplier = 1.000

Name:

Cap loads

Type

Dir

Arm ft

Mag1

x1/L

Mag2 x2/L

Moment


X

-829.92 k-ft

0.50

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97



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File Name: Pier12EB_Existing.rcp

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Date

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR7 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier12EB_Existing.rcp

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Job #
Designed KSM
Date Sep/10/2013
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Date

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR8 Name:
Multiplier = 1.000


Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: BR9 Name:
Multiplier = 1.000

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR10 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR11 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads		
Line #	Bearing #	Load kips
1	1	X 1.44
1	1	Z -5.72
1	1	Y 2.51
1	2	X 1.44
1	2	Z -5.72
1	3	X 1.44
1	3	Z -5.72
1	4	X 1.44
1	4	Z -5.72
1	5	X 1.44
1	5	Z -5.72
1	6	X 1.44
1	6	Z -5.72
1	7	X 1.44
1	7	Z -5.72
1	7	Y -2.51
2	1	X 1.68
2	1	Z -6.68
2	1	Y 2.51
2	2	X 1.68
2	2	Z -6.68
2	3	X 1.68
2	3	Z -6.68
2	4	X 1.68
2	4	Z -6.68
2	5	X 1.68
2	5	Z -6.68
2	6	X 1.68
2	6	Z -6.68
2	6	Y -2.51

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft



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Loadcase ID: BR12 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2 x2/L
Moment	X		-1618.34 k-ft	0.50	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84



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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR13 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR14 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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Contributing longitudinal length = 142.09 ft

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3

Units: US (English)

Design Code: AASHTO LRFD



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Contributing longitudinal length = 142.09 ft

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Loadcase ID: BR15 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	6	Y	-1.97

Line #	Bearing #	Dir	Load kips
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR16 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49

Units: US (English)

Design Code: AASHTO LRFD

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR17 Name:


Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L

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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		


Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
2	1	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	2	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR18 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68

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Line #	Bearing #	Dir	Load kips
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR19 Name:
Multiplier = 1.000


Cap loads	Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X			-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75

Units: US (English)

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Line #	Bearing #	Dir	Load kips
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Units: US (English)

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Auto generation details:

Loadcase ID: BR20 Name: Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		1-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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Designed KSM

Date

Checked

Date

Checked

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR21 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR22 Name:
Multiplier = 1.000


Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads

Units: US (English)

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Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: BR23 Name:

Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR24 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads

Line #	Bearing #	Dir	Load kips
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR25 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: BR26 Name:
Multiplier = 1.000

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		


Cap loads

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR27 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97

Auto generation details:


Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR28 Name:
Multiplier = 1.000

Cap loads	Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X			-1618.34 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6

Units: US (English)

Design Code: AASHTO LRFD



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Contributing longitudinal length = 142.09 ft

Loadcase ID: BR29 Name:
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR30 Name:
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75

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Line #	Bearing #	Dir	Load kips
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR31 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2 x2/L
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Units: US (English)

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Type	Dir	Arm ft	Mag1	x1/L	Mag2 x2/L
Moment	X		-1618.34 k-ft	0.50	


Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Units: US (English)

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Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR32 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68

Units: US (English)

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Selected Live Load for BR generation

Line #	Bearing #	Dir	Load kips
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR33 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Units: US (English)

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Loadcase ID: BR34 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1 x1/L	Mag2 x2/L
Moment	X		-829.92 k-ft	0.50

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.13
1	1	Z	-4.49
1	1	Y	1.97
1	2	X	1.13
1	2	Z	-4.49
1	3	X	1.13
1	3	Z	-4.49
1	4	X	1.13
1	4	Z	-4.49
1	5	X	1.13
1	5	Z	-4.49
1	6	X	1.13
1	6	Z	-4.49
1	7	X	1.13
1	7	Z	-4.49
1	7	Y	-1.97
2	1	X	1.32
2	1	Z	-5.24
2	1	Y	1.97
2	2	X	1.32
2	2	Z	-5.24
2	3	X	1.32
2	3	Z	-5.24
2	4	X	1.32
2	4	Z	-5.24
2	5	X	1.32
2	5	Z	-5.24
2	6	X	1.32
2	6	Z	-5.24
2	6	Y	-1.97

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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck

Load: Design Truck + Lane Load

Load: Design Tandem + Lane Load

Load: Two Design Trucks + Lane Load

Load: Two Design Tandem + Lane Load

Number of loaded lanes = 2

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR35 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck

Load: Design Truck + Lane Load

Load: Design Tandem + Lane Load

Load: Two Design Trucks + Lane Load

Load: Two Design Tandem + Lane Load

Number of loaded lanes = 6

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR36 Name:

Multiplier = 1.000


Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

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Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft



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Loadcase ID: BR37 Name:
Multiplier = 1.000

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84



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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR38 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	2	Y	1.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR39 Name:


Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads		
Line #	Bearing #	Load kips
1	1	X 1.13
1	1	Z -4.49
1	1	Y 1.97
1	2	X 1.13
1	2	Z -4.49
1	3	X 1.13
1	3	Z -4.49
1	4	X 1.13
1	4	Z -4.49
1	5	X 1.13
1	5	Z -4.49
1	6	X 1.13
1	6	Z -4.49
1	7	X 1.13
1	7	Z -4.49
1	7	Y -1.97
2	1	X 1.32
2	1	Z -5.24
2	1	Y 1.97
2	2	X 1.32
2	2	Z -5.24
2	3	X 1.32
2	3	Z -5.24
2	4	X 1.32
2	4	Z -5.24
2	5	X 1.32
2	5	Z -5.24
2	6	X 1.32
2	6	Z -5.24
2	6	Y -1.97

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft



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Loadcase ID: BR40 Name:

Cap loads		
Type	Dir	Arm ft
Moment	X	
		Mag1
		x1/L
		Mag2
		x2/L
		0.50

Bearing loads		
Line #	Bearing #	Load kips
1	1	X 2.21
1	1	Z -8.75
1	1	Y 3.84
1	2	X 2.21
1	2	Z -8.75
1	3	X 2.21
1	3	Z -8.75
1	4	X 2.21
1	4	Z -8.75
1	5	X 2.21
1	5	Z -8.75
1	6	X 2.21
1	6	Z -8.75
1	7	X 2.21
1	7	Z -8.75
1	7	Y -3.84
2	1	X 2.57
2	1	Z -10.21
2	1	Y 3.84
2	2	X 2.57
2	2	Z -10.21
2	3	X 2.57
2	3	Z -10.21
2	4	X 2.57
2	4	Z -10.21
2	5	X 2.57
2	5	Z -10.21
2	6	X 2.57
2	6	Z -10.21
2	6	Y -3.84



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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR41 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1618.34 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	2.21
1	1	Z	-8.75
1	1	Y	3.84
1	2	X	2.21
1	2	Z	-8.75
1	3	X	2.21
1	3	Z	-8.75
1	4	X	2.21
1	4	Z	-8.75
1	5	X	2.21
1	5	Z	-8.75
1	6	X	2.21
1	6	Z	-8.75
1	7	X	2.21

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	7	Z	-8.75
1	7	Y	-3.84
2	1	X	2.57
2	1	Z	-10.21
2	1	Y	3.84
2	2	X	2.57
2	2	Z	-10.21
2	3	X	2.57
2	3	Z	-10.21
2	4	X	2.57
2	4	Z	-10.21
2	5	X	2.57
2	5	Z	-10.21
2	6	X	2.57
2	6	Z	-10.21
2	6	Y	-3.84

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR42 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier12EB_Existing.rcp**

Contributing longitudinal length = 142.09 ft

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier12EB_Existing.rcp**

Contributing longitudinal length = 142.09 ft

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Job #

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Loadcase ID: BR43 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR44 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-1058.15 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	1.44
1	1	Z	-5.72
1	1	Y	2.51
1	2	X	1.44
1	2	Z	-5.72
1	3	X	1.44
1	3	Z	-5.72
1	4	X	1.44
1	4	Z	-5.72

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	5	X	1.44
1	5	Z	-5.72
1	6	X	1.44
1	6	Z	-5.72
1	7	X	1.44
1	7	Z	-5.72
1	7	Y	-2.51
2	1	X	1.68
2	1	Z	-6.68
2	1	Y	2.51
2	2	X	1.68
2	2	Z	-6.68
2	3	X	1.68
2	3	Z	-6.68
2	4	X	1.68
2	4	Z	-6.68
2	5	X	1.68
2	5	Z	-6.68
2	6	X	1.68
2	6	Z	-6.68
2	6	Y	-2.51

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft


Loadcase ID: BR45 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L

Units: US (English)

Design Code: AASHTO LRFD



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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-829.92 k-ft	0.50		

Bearing loads					
Line #	Bearing #	Dir	Load kips		
1	1	X	1.13		
1	1	Z	-4.49		
1	1	Y	1.97		
1	2	X	1.13		
1	2	Z	-4.49		
1	3	X	1.13		
1	3	Z	-4.49		
1	4	X	1.13		
1	4	Z	-4.49		
1	5	X	1.13		
1	5	Z	-4.49		
1	6	X	1.13		
1	6	Z	-4.49		
1	7	X	1.13		
1	7	Z	-4.49		
1	7	Y	-1.97		
2	1	X	1.32		
2	1	Z	-5.24		
2	1	Y	1.97		
2	2	X	1.32		
2	2	Z	-5.24		
2	3	X	1.32		
2	3	Z	-5.24		
2	4	X	1.32		
2	4	Z	-5.24		
2	5	X	1.32		
2	5	Z	-5.24		
2	6	X	1.32		
2	6	Z	-5.24		
2	6	Y	-1.97		

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Load: Two Design Trucks + Lane Load
Load: Two Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: WS1 Name: Angle: 0
Multiplier = 1.000


Cap loads					
Type	Dir	Arm ft	Mag1	x1/L	Mag2 x2/L
Force	X	0.00	-4.95 kips	0.50	
UDL	Z		-0.02 klf	0.00	1.00

Column loads					
Col#	Type	Dir	Mag1	y1/L	Mag2 y2/L
2	UDL	X	-0.238 klf	0.00	1.00
2	UDL	Z	-0.060 klf	0.00	1.00
1	UDL	X	-0.238 klf	0.00	0.85
1	UDL	Z	-0.060 klf	0.00	0.85
3	UDL	X	0.238 klf	0.00	1.00
3	UDL	Z	0.060 klf	0.00	1.00
4	UDL	X	0.238 klf	0.00	0.85
4	UDL	Z	0.060 klf	0.00	0.85

Bearing loads			
Line #	Bearing #	Dir	Load kips
1	1	X	-6.03
1	1	Y	-53.84
1	1	Z	-1.52
1	2	X	-6.03
1	2	Y	20.89
1	2	Z	-1.52
1	3	X	-6.03
1	3	Y	20.89

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	3	Z	-1.52
1	4	X	-6.03
1	4	Y	20.89
1	4	Z	-1.52
1	5	X	-6.03
1	5	Y	20.89
1	5	Z	-1.52
1	6	X	-6.03
1	6	Y	20.89
1	6	Z	-1.52
1	7	X	-6.03
1	7	Y	95.61
1	7	Z	-1.52
2	1	X	-7.06
2	1	Y	-50.53
2	1	Z	-1.78
2	2	X	-7.06
2	2	Y	24.45
2	2	Z	-1.78
2	3	X	-7.06
2	3	Y	24.45
2	3	Z	-1.78
2	4	X	-7.06
2	4	Y	24.45
2	4	Z	-1.78
2	5	X	-7.06
2	5	Y	24.45
2	5	Z	-1.78
2	6	X	-7.06
2	6	Y	99.43
2	6	Z	-1.78

Auto generation details:

Generated Wind Load on Structure


Angle of wind = 0.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:

Transverse 62.141 psf Cap 46.007 psf

Longitudinal 0.000 psf Column 46.007 psf

Overturning 20.000 psf



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File Name:

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Loadcase ID: WS2 Name: Angle: 15

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.48 kips	0.50		
UDL	Z		0.00 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.188 klf	0.00		1.00
2	UDL	Z	0.003 klf	0.00		1.00
1	UDL	X	-0.188 klf	0.00		0.85
1	UDL	Z	0.003 klf	0.00		0.85
3	UDL	X	0.188 klf	0.00		1.00
3	UDL	Z	-0.003 klf	0.00		1.00
4	UDL	X	0.188 klf	0.00		0.85
4	UDL	Z	-0.003 klf	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-5.49
1	1	Y	-3.57
1	1	Z	-0.61
1	2	X	-5.49
1	2	Y	-0.00
1	2	Z	-0.61
1	3	X	-5.49
1	3	Y	-0.00
1	3	Z	-0.61
1	4	X	-5.49
1	4	Y	-0.00
1	4	Z	-0.61
1	5	X	-5.49
1	5	Y	-0.00
1	5	Z	-0.61
1	6	X	-5.49
1	6	Y	-0.00



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Line #	Bearing #	Dir	Load kips
1	6	Z	-0.61
1	7	X	-5.49
1	7	Y	3.57
1	7	Z	-0.61
2	1	X	-6.42
2	1	Y	-3.58
2	1	Z	-0.72
2	2	X	-6.42
2	2	Y	-0.00
2	2	Z	-0.72
2	3	X	-6.42
2	3	Y	-0.00
2	3	Z	-0.72
2	4	X	-6.42
2	4	Y	-0.00
2	4	Z	-0.72
2	5	X	-6.42
2	5	Y	-0.00
2	5	Z	-0.72
2	6	X	-6.42
2	6	Y	3.58
2	6	Z	-0.72

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 15.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:


Wind pressure for superstructure: Wind pressure for substructure:
Transverse 54.684 psf Cap 46.007 psf
Longitudinal 7.457 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS3 Name: Angle: 30
Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



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Program: LEAP® RC-PIER® V8i (SELECTseries 5)

Version: 12.01.00.57

File Name: **Pier12EB_Existing.rcp**

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Type	Dir	Arm ft	Mag1 kips	x1/L	Mag2 kips	y2/L
Force	X	0.00	-5.34	0.50	0.00	1.00
UDL	Z		0.03	klf	0.00	

Column loads


Col #	Type	Dir	Mag1 kif	y1/L	Mag2 kif	y2/L
2	UDL	X	-0.243	0.00	0.00	1.00
2	UDL	Z	0.069	kif	0.00	1.00
1	UDL	X	-0.243	kif	0.00	0.85
1	UDL	Z	0.069	kif	0.00	0.85
3	UDL	X	0.243	kif	0.00	1.00
3	UDL	Z	-0.069	kif	0.00	1.00
4	UDL	X	0.243	kif	0.00	0.85
4	UDL	Z	-0.069	kif	0.00	0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-5.31
1	1	Y	-3.45
1	1	Z	0.20
1	2	X	-5.31
1	2	Y	-0.00
1	2	Z	0.20
1	3	X	-5.31
1	3	Y	-0.00
1	3	Z	0.20
1	4	X	-5.31
1	4	Y	-0.00
1	4	Z	0.20
1	5	X	-5.31
1	5	Y	-0.00
1	5	Z	0.20
1	6	X	-5.31
1	6	Y	-0.00
1	6	Z	0.20
1	7	X	-5.31
1	7	Y	3.45
1	7	Z	0.20
2	1	X	-6.21
2	1	Y	-3.46
2	1	Z	0.23
2	2	X	-6.21

Units: US (English)

Design Code: AASHTO LRFD



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Job #

Program:

LEAP® RC-PIER® V8i (SELECTseries 5)

Version:

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File Name:

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Line #	Bearing #	Dir	Load kips
2	2	Y	-0.00
2	2	Z	0.23
2	3	X	-6.21
2	3	Y	-0.00
2	3	Z	0.23
2	4	X	-6.21
2	4	Y	-0.00
2	4	Z	0.23
2	5	X	-6.21
2	5	Y	-0.00
2	5	Z	0.23
2	6	X	-6.21
2	6	Y	3.46
2	6	Z	0.23

Auto generation details:

Generated Wind Load on Structure


Angle of wind = 30.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 50.956 psf Cap 46.007 psf
Longitudinal 14.914 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS4 Name: Angle: 45
Multiplier = 1.000

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.93 kips	0.50		
UDL	Z		0.08 klf	0.00		1.00

Column loads



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Job #

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Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.257 klf	0.00		1.00
2	UDL	Z	0.154 klf	0.00		1.00
1	UDL	X	-0.257 klf	0.00		0.85
1	UDL	Z	0.154 klf	0.00		0.85
3	UDL	X	0.257 klf	0.00		1.00
3	UDL	Z	-0.154 klf	0.00		1.00
4	UDL	X	0.257 klf	0.00		0.85
4	UDL	Z	-0.154 klf	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-4.47
1	1	Y	-2.90
1	1	Z	0.93
1	2	X	-4.47
1	2	Y	-0.00
1	2	Z	0.93
1	3	X	-4.47
1	3	Y	-0.00
1	3	Z	0.93
1	4	X	-4.47
1	4	Y	-0.00
1	4	Z	0.93
1	5	X	-4.47
1	5	Y	-0.00
1	5	Z	0.93
1	6	X	-4.47
1	6	Y	-0.00
1	6	Z	0.93
1	7	X	-4.47
1	7	Y	2.90
1	7	Z	0.93
2	1	X	-5.23
2	1	Y	-2.91
2	1	Z	1.08
2	2	X	-5.23
2	2	Y	-0.00
2	2	Z	1.08
2	3	X	-5.23
2	3	Y	-0.00
2	3	Z	1.08
2	4	X	-5.23
2	4	Y	-0.00
2	4	Z	1.08
2	5	X	-5.23
2	5	Y	-0.00



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Line #	Bearing #	Dir	Load kips
2	5	Z	1.08
2	6	X	-5.23
2	6	Y	2.91
2	6	Z	1.08

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 45.00 deg Elevation above which wind load acts = 0.00 ft

Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:

Transverse 41.013 psf Cap 46.007 psf

Longitudinal 19.885 psf Column 46.007 psf

Overturning not considered

Loadcase ID: WS5 Name: Angle: 60


Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X		-8.57 kips	0.50		
UDL	Z		0.15 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.227 klf	0.00		1.00
2	UDL	Z	0.234 klf	0.00		1.00
1	UDL	X	-0.227 klf	0.00		0.85
1	UDL	Z	0.234 klf	0.00		0.85
3	UDL	X	0.227 klf	0.00		1.00
3	UDL	Z	-0.234 klf	0.00		1.00
4	UDL	X	0.227 klf	0.00		0.85
4	UDL	Z	-0.234 klf	0.00		0.85



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Line #	Bearing #	Dir	Load kips
1	1	X	-2.63
1	1	Y	-1.71
1	1	Z	1.77
1	2	X	-2.63
1	2	Y	-0.00
1	2	Z	1.77
1	3	X	-2.63
1	3	Y	-0.00
1	3	Z	1.77
1	4	X	-2.63
1	4	Y	-0.00
1	4	Z	1.77
1	5	X	-2.63
1	5	Y	-0.00
1	5	Z	1.77
1	6	X	-2.63
1	6	Y	-0.00
1	6	Z	1.77
1	7	X	-2.63
1	7	Y	1.71
1	7	Z	1.77
2	1	X	-3.08
2	1	Y	-1.71
2	1	Z	2.08
2	2	X	-3.08
2	2	Y	-0.00
2	2	Z	2.08
2	3	X	-3.08
2	3	Y	-0.00
2	3	Z	2.08
2	4	X	-3.08
2	4	Y	-0.00
2	4	Z	2.08
2	5	X	-3.08
2	5	Y	-0.00
2	5	Z	2.08
2	6	X	-3.08
2	6	Y	1.71
2	6	Z	2.08



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Auto generation details:

Generated Wind Load on Structure

Angle of wind = 60.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 21.128 psf Cap 46.007 psf
Longitudinal 23.614 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS6 Name: Angle: 75
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.08 kips	0.50		
UDL	Z		0.22 klf	0.00		1.00

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.161 klf	0.00		1.00
2	UDL	Z	0.289 klf	0.00	1.00	
1	UDL	X	-0.161 klf	0.00		0.85
1	UDL	Z	0.289 klf	0.00		0.85
3	UDL	X	0.161 klf	0.00		1.00
3	UDL	Z	-0.289 klf	0.00	1.00	
4	UDL	X	0.161 klf	0.00		0.85
4	UDL	Z	-0.289 klf	0.00		0.85

Line #	Bearing #	Dir	Load kips
1	1	X	-2.00
1	1	Y	-1.30
1	1	Z	2.32
1	2	X	-2.00
1	2	Y	-0.00
1	2	Z	2.32

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	3	X	-2.00
1	3	Y	-0.00
1	3	Z	2.32
1	4	X	-2.00
1	4	Y	-0.00
1	4	Z	2.32
1	5	X	-2.00
1	5	Y	-0.00
1	5	Z	2.32
1	6	X	-2.00
1	6	Y	-0.00
1	6	Z	2.32
1	7	X	-2.00
1	7	Y	1.30
1	7	Z	2.32
2	1	X	-2.34
2	1	Y	-1.30
2	1	Z	2.71
2	2	X	-2.34
2	2	Y	-0.00
2	2	Z	2.71
2	3	X	-2.34
2	3	Y	-0.00
2	3	Z	2.71
2	4	X	-2.34
2	4	Y	-0.00
2	4	Z	2.71
2	5	X	-2.34
2	5	Y	-0.00
2	5	Z	2.71
2	6	X	-2.34
2	6	Y	1.30
2	6	Z	2.71

Auto generation details:


Generated Wind Load on Structure

Angle of wind = 75.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 13.671 psf Cap 46.007 psf
Longitudinal 27.342 psf Column 46.007 psf

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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Overturning not considered


Loadcase ID: WL1 Name: Angle: 0
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.98
1	1	Y	-1.71
1	1	Z	-0.25
1	2	X	-0.98
1	2	Y	-0.00
1	2	Z	-0.25
1	3	X	-0.98
1	3	Y	-0.00
1	3	Z	-0.25
1	4	X	-0.98
1	4	Y	-0.00
1	4	Z	-0.25
1	5	X	-0.98
1	5	Y	-0.00
1	5	Z	-0.25
1	6	X	-0.98
1	6	Y	-0.00
1	6	Z	-0.25
1	7	Y	1.71
1	7	Z	-0.25
2	1	X	-1.15
2	1	Y	-1.71
2	1	Z	-0.29
2	2	X	-1.15
2	2	Y	-0.00
2	2	Z	-0.29
2	3	X	-1.15
2	3	Y	-0.00
2	3	Z	-0.29
2	4	X	-1.15
2	4	Y	-0.00
2	4	Z	-0.29
2	5	X	-1.15

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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File Name: Pier12EB_Existing.rcp

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 0.00 deg Live load length = 142.09 ft

Loadcase ID: WL2 Name: Angle: 15


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.89
1	1	Y	-1.55
1	1	Z	-0.10
1	2	X	-0.89
1	2	Y	-0.00
1	2	Z	-0.10
1	3	X	-0.89
1	3	Y	-0.00
1	3	Z	-0.10
1	4	X	-0.89
1	4	Y	-0.00
1	4	Z	-0.10
1	5	X	-0.89
1	5	Y	-0.00
1	5	Z	-0.10
1	6	X	-0.89
1	6	Y	-0.00

Units: US (English)

Design Code: AASHTO LRFD



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Job #

Program:

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Line #	Bearing #	Dir	Load kips
1	6	Z	-0.10
1	7	X	-0.89
1	7	Y	1.55
1	7	Z	-0.10
2	1	X	-1.05
2	1	Y	-1.56
2	1	Z	-0.12
2	2	X	-1.05
2	2	Y	-0.00
2	2	Z	-0.12
2	3	X	-1.05
2	3	Y	-0.00
2	3	Z	-0.12
2	4	X	-1.05
2	4	Y	-0.00
2	4	Z	-0.12
2	5	X	-1.05
2	5	Y	-0.00
2	5	Z	-0.12
2	6	X	-1.05
2	6	Y	1.56
2	6	Z	-0.12

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 15.00 deg Live load length = 142.09 ft

Loadcase ID: WL3 Name: Angle: 30


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
--------	-----------	-----	--------------

Units: US (English)

Design Code: AASHTO LRFD



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Job #

Program:

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Line #	Bearing #	Dir	Load kips
1	1	X	-0.87
1	1	Y	-1.50
1	1	Z	0.03
1	2	X	-0.87
1	2	Y	-0.00
1	2	Z	0.03
1	3	X	-0.87
1	3	Y	-0.00
1	3	Z	0.03
1	4	X	-0.87
1	4	Y	-0.00
1	4	Z	0.03
1	5	X	-0.87
1	5	Y	-0.00
1	5	Z	0.03
1	6	X	-0.87
1	6	Y	-0.00
1	6	Z	0.03
1	7	X	-0.87
1	7	Y	1.50
1	7	Z	0.03
2	1	X	-1.01
2	1	Y	-1.51
2	1	Z	0.04
2	2	X	-1.01
2	2	Y	-0.00
2	2	Z	0.04
2	3	X	-1.01
2	3	Y	-0.00
2	3	Z	0.04
2	4	X	-1.01
2	4	Y	-0.00
2	4	Z	0.04
2	5	X	-1.01
2	5	Y	-0.00
2	5	Z	0.04
2	6	X	-1.01
2	6	Y	1.51
2	6	Z	0.04

Auto generation details:

Generated Wind Load on Live Load

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier12EB_Existing.rcp

Angle of wind = 30.00 deg Live load length = 142.09 ft

Loadcase ID: WL4 Name: Angle: 45


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.73
1	1	Y	-1.26
1	1	Z	0.15
1	2	X	-0.73
1	2	Y	-0.00
1	2	Z	0.15
1	3	X	-0.73
1	3	Y	-0.00
1	3	Z	0.15
1	4	X	-0.73
1	4	Y	-0.00
1	4	Z	0.15
1	5	X	-0.73
1	5	Y	-0.00
1	5	Z	0.15
1	6	X	-0.73
1	6	Y	-0.00
1	6	Z	0.15
1	7	Y	1.26
1	7	Z	0.15
2	1	X	-0.85
2	1	Y	-1.27
2	1	Z	0.18
2	2	X	-0.85
2	2	Y	-0.00
2	2	Z	0.18
2	3	X	-0.85
2	3	Y	-0.00
2	3	Z	0.18
2	4	X	-0.85
2	4	Y	-0.00
2	4	Z	0.18
2	5	X	-0.85

Units: US (English)

Design Code: AASHTO LRFD



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Job #

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Angle of wind = 45.00 deg Live load length = 142.09 ft

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 45.00 deg Live load length = 142.09 ft

Loadcase ID: WL5 Name: Angle: 60


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.43
1	1	Y	-0.74
1	1	Z	0.29
1	2	X	-0.43
1	2	Y	-0.00
1	2	Z	0.29
1	3	X	-0.43
1	3	Y	-0.00
1	3	Z	0.29
1	4	X	-0.43
1	4	Y	-0.00
1	4	Z	0.29
1	5	X	-0.43
1	5	Y	-0.00
1	5	Z	0.29
1	6	X	-0.43
1	6	Y	-0.00

Units: US (English)

Design Code: AASHTO LRFD




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Line #	Bearing #	Dir	Load kips
1	6	Z	0.29
1	7	X	-0.43
1	7	Y	0.74
1	7	Z	0.29
2	1	X	-0.50
2	1	Y	-0.75
2	1	Z	0.34
2	2	X	-0.50
2	2	Y	-0.00
2	2	Z	0.34
2	3	X	-0.50
2	3	Y	-0.00
2	3	Z	0.34
2	4	X	-0.50
2	4	Y	-0.00
2	4	Z	0.34
2	5	X	-0.50
2	5	Y	-0.00
2	5	Z	0.34
2	6	X	-0.50
2	6	Y	0.75
2	6	Z	0.34

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 60.00 deg Live load length = 142.09 ft

Loadcase ID: WL6 Name: Angle: 75

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
--------	-----------	-----	--------------

Units: US (English)

Design Code: AASHTO LRFD


Line #	Bearing #	Dir	Load kips
1	1	X	-0.24
1	1	Y	-0.42
1	1	Z	0.38
1	2	X	-0.24
1	2	Y	-0.00
1	2	Z	0.38
1	3	X	-0.24
1	3	Y	-0.00
1	3	Z	0.38
1	4	X	-0.24
1	4	Y	-0.00
1	4	Z	0.38
1	5	X	-0.24
1	5	Y	-0.00
1	5	Z	0.38
1	6	X	-0.24
1	6	Y	-0.00
1	6	Z	0.38
1	7	X	-0.24
1	7	Y	0.42
1	7	Z	0.38
2	1	X	-0.28
2	1	Y	-0.42
2	1	Z	0.44
2	2	X	-0.28
2	2	Y	-0.00
2	2	Z	0.44
2	3	X	-0.28
2	3	Y	-0.00
2	3	Z	0.44
2	4	X	-0.28
2	4	Y	-0.00
2	4	Z	0.44
2	5	X	-0.28
2	5	Y	-0.00
2	5	Z	0.44
2	6	X	-0.28
2	6	Y	0.42
2	6	Z	0.44

Auto generation details:

Generated Wind Load on Live Load


Units: US (English)

Design Code: AASHTO LRFD

				Sheet #	155
				Job #	
				Designed	KSM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses		Date	Sep/10/2013
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012		Checked	
		www.bentley.com		Date	
File Name: Pier12EB_Existing.rcp					
Angle of wind = 75.00 deg Live load length = 142.09 ft					

Selected load groups

- STRENGTH GROUP I
- STRENGTH GROUP III
- STRENGTH GROUP V
- SERVICE GROUP I
- SERVICE GROUP II
- SERVICE GROUP III
- SERVICE GROUP IV
- EXTREME EVENT GROUP II

		Sheet # 1	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
Copyright © Bentley Systems, Inc. 2012		Checked	
www.bentley.com		Phone: 1-800-778-4277	
File Name: Pier12EB_Existing.rcp		Date	

ANALYSIS RESULTS

Global Coordinate System, Units: kip kft

LOAD CASES RESULTS FROM FRAME ANALYSIS:

Loadcase ID: SELF		Name: Self Load of Structure									
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft				
1	1	7.70	263.59	0.00	-0.00	0.00	59.24				
3	4	-7.70	263.59	0.00	-0.00	0.00	-59.24				

Loadcase ID: DC1

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.77	1318.99	-0.03	-46.58	0.49	704.72
3	4	19.77	1355.12	0.03	-46.40	0.49	-696.58

Loadcase ID: LL1

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.93	-56.00	-0.06	-19.34	0.97	822.77
3	4	14.93	762.85	0.06	-19.00	0.97	-235.36

Loadcase ID: LL1

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL2

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.96	561.48	1.44	-310.37	-24.64	1771.89
3	4	10.96	-41.20	-1.44	-319.17	-24.64	-604.93

Loadcase ID: LL2

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL3

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-40.55	353.47	-0.03	-19.25	0.44	1437.75
3	4	40.55	353.39	0.03	-19.09	0.44	-1436.47


Loadcase ID: LL3

Name:

No impact factor is included in the individual live load.

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 2	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
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www.bentley.com		Phone: 1-800-778-4277	
File Name: Pier12EB_Existing.rcp		Date	

Loadcase ID: LL4

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-26.50	697.38	0.02	-12.48	-0.28	564.84
3	4	26.50	-235.20	-0.02	-12.58	-0.28	-1313.57

Loadcase ID: LL4

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL5

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-11.07	562.37	-1.52	310.59	26.00	176.56
3	4	11.07	-41.32	1.52	319.88	26.00	-607.98

Loadcase ID: LL5

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL6

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	7.66	181.32	-0.00	-9.83	0.00	-271.23
3	4	-7.66	181.17	0.00	-9.83	0.00	271.83

Loadcase ID: LL6

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL7

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-11.10	-41.26	1.49	319.77	-25.39	610.27
3	4	11.10	562.31	-1.49	310.70	-25.39	-176.80

Loadcase ID: LL7

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL8

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.91	-41.22	-1.44	-319.15	24.56	602.63
3	4	10.91	561.50	1.44	-310.38	24.56	-170.54

Loadcase ID: LL8

Name:

No impact factor is included in the individual live load.


Loadcase ID: LL9

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	3
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	7.66	181.21	-0.00	-9.83	0.00	-271.24
3	4	-7.66	181.28	0.00	-9.83	0.00	271.83

Loadcase ID: LL9 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL10 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.94	762.88	0.04	-19.06	-0.64	236.11
3	4	14.94	-56.02	-0.04	-19.28	-0.64	-822.82

Loadcase ID: LL10 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL11 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-26.52	-235.15	-0.05	-12.38	0.85	1315.29
3	4	26.52	697.33	0.05	-12.38	0.85	-564.89

Loadcase ID: LL11 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL12 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.42	-21.02	1.59	270.88	-27.20	587.60
3	4	10.42	573.02	-1.59	261.17	-27.20	-151.02

Loadcase ID: LL12 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL13 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.38	573.10	-1.63	261.06	27.81	150.89
3	4	10.38	-21.10	1.63	270.99	27.81	-584.95

Loadcase ID: LL13 Name:


No impact factor is included in the individual live load.

Loadcase ID: LL14 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.54	-173.36	1.53	210.78	-26.13	968.92

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	4
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	19.54	514.04	-1.53	201.45	-26.13	-416.39

Loadcase ID: LL14 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL15 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.47	-172.86	-1.15	-164.93	19.65	960.76
3	4	19.47	439.67	1.15	-157.91	19.65	-419.71

Loadcase ID: LL15 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL16 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-26.44	-234.88	-0.02	-9.90	0.37	1304.34
3	4	26.44	597.37	0.02	-9.76	0.37	-570.20

Loadcase ID: LL16 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL17 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.53	-173.07	-1.47	-210.28	25.05	968.70
3	4	19.53	513.25	1.47	-201.34	25.05	-415.80

Loadcase ID: LL17 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL18 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-22.93	-203.27	0.61	79.27	-10.37	1138.54
3	4	22.93	624.90	-0.61	75.57	-10.37	-486.94

Loadcase ID: LL18 Name:


No impact factor is included in the individual live load.

Loadcase ID: LL19 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.40	-15.69	-0.79	-120.11	13.50	599.45
3	4	10.40	660.35	0.79	-115.29	13.50	-137.54

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # Job #	5
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
File Name: Pier12EB_Existing.rcp		Phone: 1-800-778-4277	
Loadcase ID: LL19 Name:		Date	
No impact factor is included in the individual live load.		Checked	
Date		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-3.17	411.69	-0.77	312.88	13.19	6.63
3	4	3.17	109.36	0.77	317.59	13.19	-218.05

Loadcase ID: LL20 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-32.49	418.34	0.39	78.60	-6.65	978.16
3	4	32.49	3.29	-0.39	76.23	-6.65	-1324.98

Loadcase ID: LL21 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.48	-173.16	1.23	165.40	-20.95	960.69
3	4	19.48	440.37	-1.23	157.92	-20.95	-420.30

Loadcase ID: LL22 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-26.41	597.43	-0.02	-9.88	0.30	570.15
3	4	26.41	-234.94	0.02	-9.78	0.30	-1302.29


Loadcase ID: LL23 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.00	-57.61	-0.35	-69.52	6.06	822.96
3	4	15.00	733.37	0.35	-67.35	6.06	-240.18

Loadcase ID: LL24 Name:
No impact factor is included in the individual live load.

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # Job #	6
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
File Name: Pier12EB_Existing.rcp		Phone: 1-800-778-4277	
Loadcase ID: LL25 Name:		Date	
No impact factor is included in the individual live load.		Checked	
Date		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.98	655.50	-0.30	-69.36	5.20	249.09
3	4	14.98	20.26	0.30	-67.51	5.20	-812.70

Loadcase ID: LL26 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.07	-57.52	0.42	70.48	-7.20	826.58
3	4	15.07	733.32	-0.42	67.91	-7.20	-241.46

Loadcase ID: LL27 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	7.64	181.18	-0.00	10.25	0.00	-270.66
3	4	-7.64	181.26	0.00	10.25	0.00	271.16

Loadcase ID: LL28 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.59	39.07	-0.12	-68.80	2.04	833.23
3	4	15.59	636.70	0.12	-68.07	2.04	-271.74

Loadcase ID: LL29 Name:
No impact factor is included in the individual live load.


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-23.29	439.52	-1.59	261.19	27.12	755.55
3	4	23.29	112.48	1.59	270.87	27.12	-895.53

Loadcase ID: LL30 Name:
No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.33	572.27	1.55	-260.78	-26.45	148.74

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	9
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-3.18	109.39	0.77	317.57	-13.10	218.93
3	4	3.18	411.66	-0.77	312.90	-13.10	-6.44

Loadcase ID: LL41 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL42 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-22.89	624.97	-0.65	75.42	11.17	486.87
3	4	22.89	-203.34	0.65	79.41	11.17	-1136.12

Loadcase ID: LL42 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL43 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.50	514.12	-1.58	201.29	27.01	416.32
3	4	19.50	-173.43	1.58	210.94	27.01	-966.25

Loadcase ID: LL43 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL44 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.53	513.25	1.47	-201.34	-25.05	415.80
3	4	19.53	-173.07	-1.47	-210.28	-25.05	-968.70

Loadcase ID: LL44 Name:

No impact factor is included in the individual live load.

Loadcase ID: LL45 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-19.47	439.67	1.15	-157.91	-19.65	419.71
3	4	19.47	-172.86	-1.15	-164.93	-19.65	-960.76

Loadcase ID: LL45 Name:


No impact factor is included in the individual live load.

Loadcase ID: BR1 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	10
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR2 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR3 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR4 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR5 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR6 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81


Loadcase ID: BR7 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR8 Name:

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 11	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
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www.bentley.com		Phone: 1-800-778-4277	
File Name: Pier12EB_Existing.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR9 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR10 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR11 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR12 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68


Loadcase ID: BR13 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR14 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR15 Name:

		Sheet # 12	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
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File Name: Pier12EB_Existing.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR16 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR17 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR18 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR19 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68


Loadcase ID: BR20 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR21 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR22 Name:

		Sheet # 13	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
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File Name: Pier12EB_Existing.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR23 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR24 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR25 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR26 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68


Loadcase ID: BR27 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR28 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR29 Name:

		Sheet # 14	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
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File Name: Pier12EB_Existing.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR30 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR31 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR32 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR33 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68


Loadcase ID: BR34 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR35 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR36 Name:

		Sheet # 15	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
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File Name: Pier12EB_Existing.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR37 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR38 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR39 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: BR40 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68

Loadcase ID: BR41 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-15.45	-32.73	60.17	3420.61	-13.77	309.61
3	4	-15.45	32.73	62.35	3469.82	-19.10	309.68


Loadcase ID: BR42 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR43 Name:

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 16	
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed KSM	
Version: 12.01.00.57		Date Sep/10/2013	
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File Name: Pier12EB_Existing.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR44 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.10	-21.40	39.34	2236.55	-9.00	202.44
3	4	-10.10	21.40	40.77	2268.73	-12.49	202.49

Loadcase ID: BR45 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.92	-16.79	30.86	1754.16	-7.06	158.78
3	4	-7.92	16.79	31.98	1779.40	-9.80	158.81

Loadcase ID: WS1 Name: Angle: 0

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	49.25	145.97	13.21	510.57	4.96	-1068.31
3	4	41.55	-438.87	9.68	474.19	4.29	-980.82

Loadcase ID: WS2 Name: Angle: 15

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	42.64	65.21	4.13	181.85	-1.32	-815.77
3	4	36.83	-65.21	4.45	187.33	-1.69	-756.00

Loadcase ID: WS3 Name: Angle: 30

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	44.30	65.98	-4.54	-126.33	-8.45	-840.60
3	4	36.81	-65.98	-0.16	-76.07	-8.64	-763.38


Loadcase ID: WS4 Name: Angle: 45

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	39.95	58.06	-14.11	-454.16	-17.93	-752.32
3	4	32.01	-58.06	-4.45	-344.88	-18.34	-670.50

Loadcase ID: WS5 Name: Angle: 60

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	17
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	KSM
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	26.84	37.11	-24.81	-835.27	-26.58	-497.35
3	4	19.82	-37.11	-10.18	-670.75	-27.33	-425.01

Loadcase ID: WS6 Name: Angle: 75

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	20.46	28.53	-32.40	-1107.91	-32.41	-380.77
3	4	15.48	-28.53	-14.38	-905.63	-33.63	-329.49

Loadcase ID: WL1 Name: Angle: 0

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	6.89	14.60	1.71	74.05	-0.39	-138.06
3	4	6.89	-14.60	1.77	75.45	-0.54	-138.09

Loadcase ID: WL2 Name: Angle: 15

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	6.27	13.29	0.69	29.93	-0.16	-125.67
3	4	6.27	-13.29	0.71	30.49	-0.22	-125.70

Loadcase ID: WL3 Name: Angle: 30

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	6.07	12.85	-0.22	-9.75	0.05	-121.56
3	4	6.07	-12.85	-0.23	-9.94	0.07	-121.59

Loadcase ID: WL4 Name: Angle: 45

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	5.10	10.81	-1.04	-45.09	0.24	-102.26
3	4	5.10	-10.81	-1.08	-45.94	0.33	-102.28


Loadcase ID: WL5 Name: Angle: 60

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	3.00	6.36	-1.99	-86.41	0.46	-60.17
3	4	3.00	-6.36	-2.06	-88.04	0.63	-60.18

Loadcase ID: WL6 Name: Angle: 75

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1.69	3.59	-2.60	-112.97	0.60	-33.95
3	4	1.69	-3.59	-2.70	-115.09	0.83	-33.96

COMBINATION OF LOADS FROM FRAME ANALYSIS (only controlling ones):

Combination No. 1

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-72.55	1806.84	105.12	5882.58	-21.05	3173.54
3	4	18.47	3635.18	109.30	5969.79	-30.38	-882.53

Combination No. 4

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 4

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-86.76	3361.85	68.87	3826.62	-16.19	2460.23
3	4	51.41	1581.57	71.32	3882.77	-22.29	-3267.18

Combination No. 5

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 5

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-65.72	3119.15	102.02	6589.61	31.89	1873.37
3	4	11.65	1992.64	112.40	6695.72	22.56	-1698.80

Combination No. 7


Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 7

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-65.79	1833.03	108.43	6609.15	-77.58	2797.58
3	4	11.72	3278.75	105.99	6676.18	-86.91	-779.91

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	19
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 10							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-72.57	3475.49	105.36	5883.33	-25.25	1978.06
3	4	18.50	1966.53	109.05	5969.04	-34.58	-2079.83

Combination No. 11

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 11							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-86.81	1461.60	68.68	3826.04	-12.94	3989.47
3	4	51.46	3481.83	71.51	3883.35	-19.04	-1741.53

Combination No. 14

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 14							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-74.40	1571.42	72.07	4304.84	-70.81	3373.61
3	4	39.05	3156.08	68.13	4341.49	-76.91	-1477.59

Combination No. 16

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 16							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-82.84	1470.23	53.90	2988.36	-10.62	3890.73
3	4	55.11	3270.06	56.06	3033.15	-15.40	-1828.78

Combination No. 24


Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 24							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-72.66	1803.97	104.49	5776.33	-10.26	3173.21
3	4	18.59	3582.78	109.93	5867.39	-19.59	-890.93

Combination No. 26

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 26

		Sheet #	20
		Job #	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	KSM
		Date	Sep/10/2013
File Name: Pier12EB_Existing.rcp		Checked	
		Date	

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 28							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-72.81	1804.16	106.17	6081.14	-38.99	3181.21
3	4	18.74	3582.61	108.25	6161.95	-48.32	-893.77

Combination No. 28

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 28

Combination No. 28							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-73.72	2003.35	105.00	5777.88	-18.94	3188.20
3	4	19.65	3383.39	109.42	5865.84	-28.27	-950.88

Combination No. 31

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 31

Combination No. 31							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-64.26	1869.16	101.97	5351.36	32.70	2742.73
3	4	10.18	3296.47	112.44	5457.76	23.37	-725.69

Combination No. 36

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 36

Combination No. 36							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-73.99	3387.06	104.08	6179.00	-3.32	2028.84
3	4	19.91	1944.71	110.34	6272.54	-12.65	-2129.27

Combination No. 46

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 46


Combination No. 46							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-18.47	1921.40	-105.48	-6089.56	27.15	2089.90
3	4	72.54	3520.62	-108.94	-6174.59	36.48	-1966.42

Combination No. 47

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 47

Combination No. 47							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-11.40	3232.02	-102.26	-6705.70	27.79	779.28

		Sheet # 23	
		Job #	
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		Date	Sep/10/2013
File Name: Pier12EB_Existing.rpt		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-120.52	1252.94	105.13	5898.88	-21.22	2906.15
3	4	14.25	3068.63	109.29	5986.03	-30.55	-617.99

Combination No. 93

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-120.52	2087.32	105.22	5899.16	-22.77	4159.18
3	4	66.45	2234.25	109.20	5985.75	-32.10	-3065.48

Combination No. 95

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-61.49	2565.25	102.03	6605.91	31.72	1605.99
3	4	7.42	1426.09	112.39	6711.96	22.39	-1434.26

Combination No. 97

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-61.57	1279.13	108.44	6625.45	-77.75	2530.19
3	4	7.50	2712.20	105.98	6692.42	-87.08	-515.38

Combination No. 116

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-68.59	1250.25	106.18	6097.45	-39.16	2913.82
3	4	14.52	3016.06	108.24	6178.19	-48.49	-629.23


Combination No. 124

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-9.16	1764.36	53.97	3051.60	-11.91	414.28

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 24	
		Job #	
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		Date	Sep/10/2013
File Name: Pier12EB_Existing.rpt		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-18.57	1855.34	55.99	3095.93	-16.70	149.92

Combination No. 136

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.25	1367.50	-105.47	-6073.26	26.98	1822.51
3	4	68.32	2954.07	-108.95	-6158.35	36.31	-1701.89

Combination No. 137

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.18	2678.11	-102.25	-6689.40	-27.96	511.90
3	4	61.25	1311.78	-112.17	-6794.10	-18.63	-2511.17

Combination No. 138

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-66.45	2201.88	-105.38	-6072.98	25.42	3075.53
3	4	120.52	2119.69	-109.04	-6158.63	34.75	-4149.38

Combination No. 143

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-7.06	1393.75	-108.39	-6708.11	76.89	1429.73
3	4	61.14	2596.14	-106.03	-6775.39	86.22	-1585.42


Combination No. 146

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-47.23	982.60	-69.00	-3985.60	18.40	3013.55
3	4	82.59	2840.37	-71.19	-4040.96	24.50	-2185.70

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	
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File Name: Pier12EB_Existing.rcp		Date	

Combination No. 150
 Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-38.50	1085.33	-56.48	-3463.16	54.66	2457.10
3	4	66.23	2364.42	-53.48	-3492.22	59.45	-1852.56

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.36	1364.62	-106.10	-6179.51	37.76	1822.18
3	4	68.43	2901.67	-108.32	-6260.75	47.09	-1770.29

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-18.57	1822.88	-54.02	-3087.95	12.80	-141.46
3	4	9.16	1796.82	-55.93	-3131.96	17.59	-405.94

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-38.50	2390.64	-51.57	-3448.22	-29.07	1304.11
3	4	66.23	1059.10	-58.38	-3507.17	-24.28	-3005.55


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-38.50	2390.64	-51.57	-3448.22	-29.07	1304.11
3	4	66.23	1059.10	-58.38	-3507.17	-24.28	-3005.55

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	53.86	2182.58	18.46	656.58	7.56	-540.69
3	4	73.26	1408.98	13.59	605.86	6.62	-2317.92

Combination No. 187
 Group Id: STR GP 3 Name: STRENGTH GROUP III

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-84.03	1773.87	-18.53	-773.02	-6.34	2450.59
3	4	-43.09	2637.82	-13.52	-721.87	-5.40	428.37

Combination No. 193
 Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	58.08	1628.68	18.47	672.88	7.39	-808.07
3	4	69.04	842.43	13.58	622.10	6.45	-2053.38

Combination No. 1289
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-23.33	2377.45	85.69	5364.69	26.17	830.68
3	4	31.72	1242.97	92.35	5433.37	18.55	-1792.33

Combination No. 1556
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	18.57	2464.52	-71.89	-4891.69	-19.87	-13.33
3	4	73.24	1154.79	80.88	-4985.59	13.09	-2623.09

Combination No. 1558
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-12.29	2622.46	-46.10	-2805.46	13.39	736.81
3	4	89.67	868.08	-49.42	-2862.18	17.67	-3548.94

Combination No. 1579
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	13.05	2572.24	14.75	4498.01	28.91	95.33

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	178.76	1260.29	-78.03	-4574.49	35.69	-2905.27

Combination No. 1830

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-36.11	1613.71	34.64	2030.18	-10.69	1041.09
3	4	-35.38	1954.45	37.55	2077.56	-13.96	491.78

Combination No. 2365

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-23.24	1543.03	65.73	3575.39	-10.79	1573.17
3	4	33.36	2393.48	67.14	3615.75	-16.47	-1152.58

Combination No. 2369

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-19.34	2292.92	63.96	3979.41	19.46	830.22
3	4	29.46	1454.89	68.91	4030.57	13.78	-1619.02

Combination No. 2635

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	7.66	1608.49	-54.61	-3265.83	16.75	953.95
3	4	64.26	2328.02	-57.57	-3323.89	21.73	-1771.95


Combination No. 2636

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	11.70	2357.42	-52.77	-3617.91	-14.64	205.03
3	4	60.22	1389.57	-59.41	-3687.18	-9.66	-2234.40

Units: US (English)

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		Date	

Combination No. 2867

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2867

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-2.07	1577.26	-74.27	-4301.17	35.05	1039.87
3	4	47.14	2257.59	67.59	4280.97	40.24	-1405.87

Combination No. 2905

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2905

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-66.57	1426.26	54.39	3120.94	-12.99	2490.28
3	4	-5.35	2685.99	57.79	3180.35	-17.97	-287.91

Combination No. 2910

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2910

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-32.74	1718.54	25.16	1467.22	-7.67	1065.58
3	4	-24.12	1992.72	27.33	1502.15	-10.05	151.78

Combination No. 3445

Group Id: SER GP 2 Name: SERVICE GROUP III

Combination No. 3445

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-54.75	1455.27	78.09	4366.59	-15.60	2412.05
3	4	14.59	2816.04	81.20	4431.39	-22.53	-709.58

Combination No. 3447

Group Id: SER GP 2 Name: SERVICE GROUP III

Combination No. 3447


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	-93.53	2075.09	78.15	4366.79	-16.75	3342.87
3	4	53.36	2196.22	81.13	4431.18	-23.68	-2527.71

Combination No. 3448

Group Id: SER GP 2 Name: SERVICE GROUP III

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-65.31	2430.42	51.16	2839.30	-11.99	1882.17
3	4	39.05	1290.50	52.98	2881.03	-16.52	-2481.03

Combination No. 3449

Group Id: SER GP 2 Name: SERVICE GROUP II

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-49.68	12430.12	75.78	4891.81	23.73	1446.22
3	4	9.52	1595.87	83.50	4970.65	16.80	-1315.95

Combination No. 3451

Group Id: SER GP 2 Name: SERVICE GROUP II

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-49.74	1474.72	80.54	4906.33	-57.60	2132.77
3	4	9.57	2551.27	78.74	4956.13	-64.53	-633.35

Combination No. 3454

Group Id: SER GP 2 Name: SERVICE GROUP II

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-54.77	12694.84	78.27	4367.15	-18.72	1523.98
3	4	14.61	1576.48	81.01	4430.83	25.65	-1599.01

Combination No. 3455

Group Id: SER GP 2 Name: SERVICE GROUP II

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-65.35	1198.80	51.02	2838.87	-9.58	3018.18
3	4	39.09	2702.12	53.13	2881.46	-14.11	-1347.70


Combination No. 3458

Group Id: SER GP 2 Name: SERVICE GROUP II

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-56.13	1280.38	53.54	3194.55	52.57	2560.68

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	29.87	2460.14	50.61	3221.79	-57.10	-1151.63

Combination No. 3460

Group Id: SER GP 2 Name: SERVICE GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-62.40	1205.21	40.04	2216.60	-7.85	2944.82
3	4	41.80	2544.81	41.65	2249.88	-11.41	-1412.51

Combination No. 3470

Group Id: SER GP 2 Name: SERVICE GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-54.95	1453.27	78.87	4514.09	-28.93	2417.75
3	4	14.78	2776.99	80.41	4574.13	-35.86	-717.93

Combination No. 3478

Group Id: SER GP 2 Name: SERVICE GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-10.81	1835.18	40.08	2251.47	-8.69	560.95
3	4	-9.79	1914.75	41.60	2284.45	-12.24	-139.13

Combination No. 3480

Group Id: SER GP 2 Name: SERVICE GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-55.82	2629.15	77.32	4586.79	-2.43	1561.71
3	4	15.66	1560.26	81.97	4656.28	-9.36	-1635.73


Combination No. 3490

Group Id: SER GP 2 Name: SERVICE GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-14.59	1540.37	-78.36	-4527.00	20.20	1607.06
3	4	54.75	2730.94	-80.93	-4590.15	27.13	-1514.76

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12 Straddle.rcp**

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Sheet # 1
Job # 59219
Designed CAM
Date 9/10/14
Checked
Date


PROJECT DATA

PROJECT DATA

Project: I-4 PD&E - St. Johns River Bridge Evaluation
User Job No.: 59219
Designer: CAM
Date: 9/10/14
Checked date: FL
State: FL
State Job No.:
Structure type: Pier
Pier View: Upstation
Code: AASHTO LRFD (6th Edition, 2012)
Comments: Reversible Lanes Alternative
Straddle Pier Option

Units: US (English)

Design Code: AASHTO LRFD



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Sheet # 2
Job # 59219
Designed CAM
Date 9/10/14
Checked
Date

PIER GEOMETRY

Pier Info:
Pier View: Upstation.
Pier Type: Multi Column

Cap Shape
Cap Shape: Straight
Top Elevations: Start = 47.16 ft end = 47.16 ft
Depth(Z) = 54.00 in Skew angle = 14.15 Reduction of I = 1.000
Length(X) = 98.65 ft Height(Y) = 72.00 in

Column Shape : Rectangular Chamfered
Number of columns: 2

Column number 1
Location from the left edge of the cap(X): 3.00 ft
Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y) ft	Width(X) in	Depth(Z) in	Chamfer(X) in	Chamfer(Z) in	Variation
0.00	72.00	36.00	12.00	12.00	-----
39.91	72.00	36.00	12.00	12.00	Linear

Column number 2
Location from the left edge of the cap(X): 95.65 ft
Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
Column Bottom is Fixed


Column Section Dimensions

Dist from last(Y) ft	Width(X) in	Depth(Z) in	Chamfer(X) in	Chamfer(Z) in	Variation
0.00	72.00	36.00	12.00	12.00	-----
39.91	72.00	36.00	12.00	12.00	Linear

Struts
Strut Shape : Rectangular
Number of struts: 1

Units: US (English)

Design Code: AASHTO LRFD



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Version:

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Sheet # 3

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Date 9/10/14

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Date

Struts properties

Strut number 1
Elevations: start = 8.25 ft end = 8.25 ft
Depth(Z) = 24.00 in Height(Y) = 48.00 in Reduction of I = 1.000



Bentley

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Version:

File Name:

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Sheet # 4

Job # 59219

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Date

SUPERSTRUCTURE INFO


Superstructure info:

Total number of spans: 2
Span number rear to current pier: 1
Number of traffic lanes: 4
Barrier height : 32.00 in
Depth of slab : 8.50 in
Curb to curb distance: 0.000 58.083 ft

Beam info:

Height in	Section area in^2	Inertia (Ixx) in^4	Inertia (Iyy) in^4	Beam CG in
78.00	1105.00	903861.00	82270.00	34.63

Span #	Span length ft	Bridge Width ft
1	121.167	61.083
2	142.333	61.083



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Version: 12.01.00.57

File Name: **Pier 12 Straddle.rcp**

Sheet # 5

Job # 59219

Designed CAM

Date 9/10/14

Checked

Date

BEARING POINTS


Number of bearing lines: 2

Point	Distance ft
1	14.82
2	28.35
3	41.88
4	55.41
5	68.93
6	82.46

First bearing line Eccentricity = 1.21 ft

Point	Distance ft
1	15.43
2	28.96
3	42.49
4	56.02
5	69.55
6	83.07

Second bearing line Eccentricity = -1.21 ft



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Version: 12.01.00.57

File Name: **Pier 12 Straddle.rcp**

Sheet # 6

Job # 59219

Designed CAM


Date 9/10/14

Checked

Date

MATERIAL PROPERTIES

	Cap	Column	Footing
Concrete Type	normal	normal	normal
Concrete Strength (psi)	5500.00	5500.00	5500.00
Concrete Density (lb/ft³)	150.00	150.00	150.00
Concrete Modulus Ec (ksi)	4496.06	4496.06	4496.06
Steel Strength Fy (ksi)	60.00	60.00	60.00



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DESIGN PARAMETERS

Resistance factors for reinf. concrete

Flexure and tension	0.90
Shear and torsion (normal)	0.90
Shear and torsion (lightweight)	0.70
Axial compression (ties)	0.75
Axial compression (spiral)	0.75
Compression in STM	0.70

Multi presence factors for live load

1 Lane	1.20
2 Lanes	1.00
3 Lanes	0.85
more than 3 Lanes	0.65

Dynamic load allowance IM

Truck	Lane	Fatigue
Cap	0.33	0.00
Column	0.33	0.15
Footing	0.00	0.00

Exposure factors	Clear cover	Clear side cover
Cap	1.00	2.00
Column	1.00	2.00
Footing	1.00	3.00

Degree of fixity in foundations for Moment Magnify Method: Ga = 5.00

SEISMIC DESIGN PARAMETERS

Strength Reduction factors for reinf. Concrete Seismic Design

Seismic Overstrength

Flexure and tension	1.30
Axial compression (ties)	1.30
Axial compression (spiral)	1.30

Response Modification Factor 5.00


Use core area for plastic hinging calculations.

Design Factors

Cap Design Factor 1.20

Units: US (English)

Design Code: AASHTO LRFD



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DESIGN PARAMETERS

Plastic Hinge Moment

Use actual computed Plastic Hinging Moment for each column in all combinations.

Units: US (English)

Design Code: AASHTO LRFD



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LOADS

Pier Info:
Pier View: Upstation:

Load Cases: 83

Loadcase ID: DC1 Name:
Multiplier = 1.000


Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -162.45
1	2	Y -181.63
1	3	Y -186.42
1	4	Y -191.21
1	5	Y -196.00
2	1	Y -167.00
2	1	Y -208.25
2	2	Y -215.40
2	3	Y -215.40
2	4	Y -215.40
2	5	Y -215.40
2	6	Y -186.72

Auto generation details:

Generated Dead Load
Slab weight = 150.00 pcf
Girder weight = 150.00 pcf
Wearing weight = Not included
Barrier load = 418.00 plf

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: LL1 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y -6.15
1	4	Y -38.21
1	5	Y -42.55
1	6	Y -12.73
2	1	Y 0.00
2	2	Y 0.00
2	3	Y -5.19
2	4	Y -29.88
2	5	Y -31.44
2	6	Y -8.44
1	1	Y 0.00
1	2	Y 0.00
1	3	Y -5.91
1	4	Y -38.31
1	5	Y -42.03
1	6	Y -12.63
2	1	Y 0.00
2	2	Y 0.00
2	3	Y -8.20
2	4	Y -46.04
2	5	Y -48.77
2	6	Y -13.13


Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Units: US (English)

Design Code: AASHTO LRFD




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File Name: **Pier 12 Straddle.rcp**

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL2 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-22.46
1	3	Y	-28.73
1	4	Y	-49.69
1	5	Y	-55.33
1	6	Y	-16.56
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-13.10
1	3	Y	-16.61
1	4	Y	-29.29
1	5	Y	-32.14
1	6	Y	-9.66

Units: US (English)

Design Code: AASHTO LRFD

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL3 Name:

Multiplier = 1.000

Bearing loads

Units: US (English)

Design Code: AASHTO LRFD



Program:

Version:

File Name:

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Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-24.72
2	3	Y	-28.10
2	4	Y	-52.30
2	5	Y	-55.03
2	6	Y	-14.78
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-16.74
2	3	Y	-19.14
2	4	Y	-35.21
2	5	Y	-37.30
2	6	Y	-10.04

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Units: US (English)

Design Code: AASHTO LRFD



Program:

Version:

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Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL4 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-17.27
1	3	Y	-44.83
1	4	Y	-33.66
1	5	Y	-3.87
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-14.52
2	3	Y	-33.50
2	4	Y	-24.59
2	5	Y	-2.35
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-17.55
1	3	Y	-43.03
1	4	Y	-35.08
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-22.75
2	3	Y	-50.72
2	4	Y	-39.73
2	5	Y	-2.94
2	6	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Sheet # 15
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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL5 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-11.89
2	4	Y	-68.39
2	5	Y	-71.96
2	6	Y	-19.33

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL6 Name:
Multiplier = 1.000

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Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL7 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-10.46
1	4	Y	-64.98
1	5	Y	-72.36
1	6	Y	-21.65
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-5.91
1	4	Y	-38.31
1	5	Y	-42.03
1	6	Y	-12.63
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

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File Name: **Pier 12 Straddle.rcp**

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL7 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-28.89
1	4	Y	-41.40
1	5	Y	-29.35
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-0.40
2	3	Y	-22.64
2	4	Y	-31.54
2	5	Y	-20.38
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.42
1	3	Y	-27.21
1	4	Y	-43.23
1	5	Y	-27.54
1	6	Y	-0.48
2	1	Y	0.00
2	2	Y	-0.86
2	3	Y	-33.89
2	4	Y	-50.78
2	5	Y	-30.34
2	6	Y	-0.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL8 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-9.38
1	2	Y	-41.11
1	3	Y	-41.11
1	4	Y	-8.05
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-8.19

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Units: US (English)

Design Code: AASHTO LRFD



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File Name:
Loadcase ID: LL9 Name:
Multiplier = 1.000

Pier 12, Straddle.rcp

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -12.19
1	2	Y -53.46
1	3	Y -58.31
1	4	Y -43.78
1	5	Y -5.04
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y -7.28
1	2	Y -31.19
1	3	Y -33.06
1	4	Y -26.82
1	5	Y -2.46
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

	Design Truck
	Design Truck + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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File Name:
Loadcase ID: LL10 Name:
Multiplier = 1.000

Pier 12, Straddle.rcp

Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL10 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
2	1	Y -14.33
2	2	Y -54.82
2	3	Y -58.63
2	4	Y -43.03
2	5	Y -4.11
2	6	Y 0.00
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
2	1	Y -9.75
2	2	Y -37.19
2	3	Y -38.84

Units: US (English)

Design Code: AASHTO LRFD




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Line #	Bearing #	Dir	Load kips
2	4	Y	-30.39
2	5	Y	-2.25
2	6	Y	0.00

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-18.74
2	2	Y	-71.69
2	3	Y	-68.96
2	4	Y	-12.17
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-12.76
2	2	Y	-48.64
2	3	Y	-46.27
2	4	Y	-8.48
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL11 Name:

Multiplier = 1.000

Bearing loads


Line #	Bearing #	Dir	Load kips
1	1	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD

Units: US (English)

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Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL12 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -15.95
1	2	Y -69.91
1	3	Y -69.92
1	4	Y -13.68
1	5	Y 0.00
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y -9.52
1	2	Y -40.78
1	3	Y -40.17
1	4	Y -8.40
1	5	Y 0.00
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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Designed CAM
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Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL13 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y -11.03
1	2	Y -48.36
1	3	Y -18.76
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
2	1	Y -9.63
2	2	Y -36.38
2	3	Y -12.78
2	4	Y 0.00
2	5	Y 0.00
2	6	Y 0.00
1	1	Y -11.20
1	2	Y -47.49
1	3	Y -18.86

Units: US (English)

Design Code: AASHTO LRFD



Program: LEAP® RC-PIER® V8i (SELECTseries 5)
Version: 12.01.00.57
File Name: **Pier 12, Straddle.rcp**

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Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-15.01
2	2	Y	-56.20
2	3	Y	-19.88
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL14 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-22.04
2	2	Y	-83.27
2	3	Y	-29.24
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-15.01
2	2	Y	-56.20
2	3	Y	-19.88
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution


Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft

Units: US (English)

Design Code: AASHTO LRFD



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Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL15 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y -14.82
1	5	Y -48.36
1	6	Y -14.98
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y -12.48
2	5	Y -36.38
2	6	Y -9.93
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y -14.70
1	5	Y -47.98
1	6	Y -14.86
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00
2	4	Y -19.39
2	5	Y -56.25
2	6	Y -15.45

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL16 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y 0.00
1	3	Y 0.00
1	4	Y 0.00
1	5	Y 0.00
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y 0.00

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	4	Y	-28.56
2	5	Y	-83.26
2	6	Y	-22.74
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-19.39
2	5	Y	-56.25
2	6	Y	-15.45

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Units: US (English)

Design Code: AASHTO LRFD



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Loadcase ID: LL17 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-0.91
2	3	Y	-51.82
2	4	Y	-72.20
2	5	Y	-46.64
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-0.86
2	3	Y	-33.89
2	4	Y	-50.78
2	5	Y	-30.34
2	6	Y	-0.27

Auto generation details:


Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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Design Tandem + Lane Load

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Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL18 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-49.13
1	4	Y	-70.41
1	5	Y	-49.91
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.42
1	3	Y	-27.21
1	4	Y	-43.23
1	5	Y	-27.54
1	6	Y	-0.48
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Design Tandem + Lane Load

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL19 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	-28.89
1	4	Y	-46.83
1	5	Y	-47.20
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-0.40
2	3	Y	-22.64
2	4	Y	-24.59
2	5	Y	-2.35
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.42
1	3	Y	-27.21
1	4	Y	-43.23
1	5	Y	-27.54
1	6	Y	-0.48
2	1	Y	0.00
2	2	Y	-0.86
2	3	Y	-33.89
2	4	Y	-39.73
2	5	Y	-2.94
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

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Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL20 Name:
Multiplier = 1.000

Bearing loads			Load kips
Line #	Bearing #	Dir	
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-53.45
2	6	Y	-27.28
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-0.07
2	6	Y	-36.05
2		Y	-18.54

Auto generation details:

Units: US (English)

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Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL21 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-28.91
1	6	Y	-17.98
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-23.35
2	6	Y	-11.92
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00

Units: US (English)

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Date

Generated Live Load

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	-28.69
1	6	Y	-17.84
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-0.07
2	5	Y	-36.05
2	6	Y	-18.54

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL22 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Center to Center Spacing = 10.00 ft

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-17.27
1	3	Y	-47.44
1	4	Y	-51.61
1	5	Y	-6.59
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-14.52
2	3	Y	-30.13
2	4	Y	-5.32
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-17.55
1	3	Y	-43.03
1	4	Y	-35.08
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-22.75
2	3	Y	-46.20
2	4	Y	-8.48
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution


Selected Vehicles:	Design Truck
	Design Truck + Lane Load
	Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft

Units: US (English)

Design Code: AASHTO LRFD



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Center to Center Spacing = 10.00 ft

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-15.17
1	6	Y	-9.43
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-11.89
2	4	Y	-68.39
2	5	Y	-56.17
2	6	Y	-11.26
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-20.32
1	6	Y	-12.63
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-8.20
2	4	Y	-46.04
2	5	Y	-48.77
2	6	Y	-13.13

Loadcase ID: LL23 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-15.17
1	6	Y	-9.43
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-11.89
2	4	Y	-68.39
2	5	Y	-56.17
2	6	Y	-11.26
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-20.32
1	6	Y	-12.63
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-8.20
2	4	Y	-46.04
2	5	Y	-48.77
2	6	Y	-13.13

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected


Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL24 Name:
Multiplier = 1.000

Bearing loads		
Line #	Bearing #	Load kips
1	1	Y 0.00
1	2	Y -29.37
1	3	Y -73.64
1	4	Y -39.30
1	5	Y -3.87
1	6	Y 0.00
2	1	Y 0.00
2	2	Y 0.00
2	3	Y -3.37

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	4	Y	-19.27
2	5	Y	-2.35
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-17.55
1	3	Y	-43.03
1	4	Y	-35.08
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.52
2	4	Y	-31.25
2	5	Y	-2.94
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier 12 Straddle.rcp

Loadcase ID: LL25 Name:

Multiplier = 1.000

Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20

Total number of Possible Combination = 2032

Loadcase ID: LL26 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-6.94
1	2	Y	-30.45
1	3	Y	-30.45
1	4	Y	-5.96
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-10.92
2	2	Y	-41.79
2	3	Y	-40.20
2	4	Y	-7.09
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-9.52
1	2	Y	-40.78
1	3	Y	-40.17
1	4	Y	-8.40
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-12.76
2	2	Y	-48.64
2	3	Y	-46.27
2	4	Y	-8.48
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load


Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier 12 Straddle.rcp

Loadcase ID: LL26 Name:

Multiplier = 1.000

Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20

Total number of Possible Combination = 2032

Loadcase ID: LL26 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-9.38
1	2	Y	-53.21
1	3	Y	-69.92
1	4	Y	-13.68
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-8.19
2	2	Y	-16.80
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-9.52
1	2	Y	-40.78
1	3	Y	-40.17
1	4	Y	-8.40
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-12.76
2	2	Y	-25.89
2	3	Y	-0.07

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL27 Name:


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	-2.76
1	4	Y	-24.70
1	5	Y	-21.74
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-0.91
2	3	Y	-48.60
2	4	Y	-47.16
2	5	Y	-27.18
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.07
1	4	Y	-34.83
1	5	Y	-27.54
1	6	Y	-0.48
2	1	Y	0.00
2	2	Y	-0.86
2	3	Y	-33.89
2	4	Y	-50.78
2	5	Y	-30.34
2	6	Y	-0.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



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Program: LEAP® RC-PIER® V8i (SELECTseries 5)

Version: 12.01.00.57

File Name: **Pier 12 Straddle.rcp**

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

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Designed CAM

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Loadcase ID: LL28 Name:
Multiplier = 1.000


Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.63
1	3	Y	-18.97
1	4	Y	-4.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-2.96
2	3	Y	-33.42
2	4	Y	-64.69
2	5	Y	-46.64
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-1.76
1	3	Y	-26.28
1	4	Y	-4.92
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-2.77
2	3	Y	-35.73
2	4	Y	-47.03
2	5	Y	-30.34
2	6	Y	-0.27

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12 Straddle.rcp**

Generated Live Load

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Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL29 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-13.24
1	2	Y	-33.65
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-11.56
2	2	Y	-23.72
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-13.43
1	2	Y	-32.80
1	3	Y	-0.30

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-18.01
2	2	Y	-36.54
2	3	Y	-0.10
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft


Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Loadcase ID: LL30 Name:
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12, Straddle.rcp**

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-22.51
1	2	Y	-57.23
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-13.43
1	2	Y	-32.80
1	3	Y	-0.30
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution


Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft

Units: US (English)

Design Code: AASHTO LRFD



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File Name:

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Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20


Total number of Possible Combination = 2032

Loadcase ID: LL31 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-21.40
1	4	Y	-24.93
1	5	Y	-2.87
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-41.22
2	3	Y	-46.70
2	4	Y	-32.80
2	5	Y	-3.13
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	-0.42
1	3	Y	-27.21
1	4	Y	-35.08
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	-0.22
2	2	Y	-27.97
2	3	Y	-45.28
2	4	Y	-39.73
2	5	Y	-2.94
2	6	Y	0.00



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File Name:

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Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20


Total number of Possible Combination = 2032

Loadcase ID: LL32 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-45.77
2	3	Y	-68.32



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Line #	Bearing #	Dir	Load kips
2	4	Y	-52.10
2	5	Y	-5.37
2	6	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-0.22
2	2	Y	-29.88
2	3	Y	-47.12
2	4	Y	-35.99
2	5	Y	-2.94
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---

Transverse Positioning


Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12 Straddle.rcp**

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Loadcase ID: LL33 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-41.37
1	3	Y	-68.76
1	4	Y	-52.74
1	5	Y	-6.59
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-0.05
1	2	Y	-23.61
1	3	Y	-40.40
1	4	Y	-31.60
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:


Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12, Straddle.rcp**

Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL34 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-8.17
1	2	Y	-35.82
1	3	Y	-13.89
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-12.85
2	2	Y	-48.54
2	3	Y	-17.04
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
1	1	Y	-11.20
1	2	Y	-47.49
1	3	Y	-18.86
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
2	1	Y	-15.01
2	2	Y	-56.20
2	3	Y	-19.88

Units: US (English)

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File Name: **Pier 12, Straddle.rcp**

Line #	Bearing #	Dir	Load kips
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load
Design Tandem + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032


Loadcase ID: LL35 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12, Straddle.rcp**

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

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Line #	Bearing #	Dir	Load kips
1	2	Y	-24.32
1	3	Y	-40.43
1	4	Y	-31.01
1	5	Y	-3.87
1	6	Y	0.00
2	1	Y	0.00
2	2	Y	-20.00
2	3	Y	-29.85
2	4	Y	-22.76
2	5	Y	-2.35
2	6	Y	0.00
1	1	Y	-0.05
1	2	Y	-23.61
1	3	Y	-40.40
1	4	Y	-31.60
1	5	Y	-3.22
1	6	Y	0.00
2	1	Y	-0.22
2	2	Y	-29.88
2	3	Y	-47.12
2	4	Y	-35.99
2	5	Y	-2.94
2	6	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load Design Tandem + Lane Load
--------------------	---


Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12, Straddle.rcp**

Total number of Considered Truck Positions = 20
Total number of Possible Combination = 2032

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Designed CAM
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Loadcase ID: BR1 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Units: US (English)

Design Code: AASHTO LRFD



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Version: 12.01.00.57

File Name: PIER 12 Straddle.rcp

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR2 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-599.38 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.95
1	1	Z	-3.78
1	1	Y	1.12
1	2	X	0.95
1	2	Z	-3.78
1	3	X	0.95
1	3	Z	-3.78
1	4	X	0.95
1	4	Z	-3.78
1	5	X	0.95
1	5	Z	-3.78
1	6	X	0.95
1	6	Z	-3.78
2	1	Y	-1.12
2	1	X	0.95
2	1	Z	-3.78

Units: US (English)

Design Code: AASHTO LRFD



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Program: LEAP® RC-PIER® V8i (SELECTseries 5)

Version: 12.01.00.57

File Name: PIER 12 Straddle.rcp

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 4
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR3 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-599.38 k-ft	0.50		


Bearing loads

Line #	Bearing #	Dir	Load kips
--------	-----------	-----	--------------

Units: US (English)

Design Code: AASHTO LRFD



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Program: LEAP@RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57	SE Client Licenses Copyright © Bentley Systems, Inc. 2012 www.bentley.com		
File Name: Pier 12_Straddle.rcp	Designed: CAM	Date: 9/10/14	Checked: Date:

Line #	Bearing #	Dir	Load Kips
1	1	X	0.95
1	1	Z	-3.78
1	1	Y	1.12
1	1	Y	0.95
1	2	Z	-3.78
1	2	Z	0.95
1	3	Z	-3.78
1	3	Z	0.95
1	4	X	0.95
1	4	X	-3.78
1	5	Z	0.95
1	5	Z	-3.78
1	6	Z	-3.78
1	6	Z	-1.12
2	1	X	0.95
2	1	Z	-3.78
2	1	Y	1.12
2	2	X	0.95
2	2	Z	-3.78
2	2	X	0.95
2	3	Z	-3.78
2	3	Z	0.95
2	4	Z	-3.78
2	4	Z	0.95
2	5	X	0.95
2	5	X	-3.78
2	6	Z	0.95
2	6	Z	-3.78
2	6	Z	-1.12

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck

Load: Design Truck + Lane Load

Load: Design Truck + Lane Load

Number of loaded lanes = 4

Number of loaded rails = 4
Contributing longitudinal length = 131.75 ft


Loadcase ID: BR4 Name:

Multiplier = 1.000

Units: US (English)

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	File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	Checked	
				Date	
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Cap loads				
Type	Dir	Arm ft	Mag1	Mag2
Moment	X		587.86 k-ft	0.50

Bearing loads


Line #	Bearing #	Dir	Kps
1	1	X	0.94
1	1	X	-3.71
1	1	Z	1.10
1	1	Y	1.10
1	2	X	0.94
1	2	X	-3.71
1	3	Z	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	X	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	2	X	1.10
2	2	Y	0.94
2	2	Z	-3.71
2	3	Z	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	X	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Units: US (English)

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File Name:

Pier 12 Straddle.rcp

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR5 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	-1.10
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR6 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71

Units: US (English)

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Bearing loads			
Line #	Bearing #	Dir	Load kips
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation


Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR7 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



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Bearing loads			
Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

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Loadcase ID: BR8 Name:
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Units: US (English)

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File Name: Pier 12 Straddle.rcp		

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR9 Name:
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-599.38 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.95
1	1	Z	-3.78
1	1	Y	1.12
1	2	X	0.95
1	2	Z	-3.78
1	3	X	0.95
1	3	Z	-3.78
1	4	X	0.95
1	4	Z	-3.78
1	5	X	0.95
1	5	Z	-3.78
1	6	X	0.95
1	6	Z	-3.78
1	6	Y	-1.12
2	1	X	0.95
2	1	Z	-3.78
2	1	Y	1.12
2	2	X	0.95
2	2	Z	-3.78

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	3	X	0.95
2	3	Z	-3.78
2	4	X	0.95
2	4	Z	-3.78
2	5	X	0.95
2	5	Z	-3.78
2	6	X	0.95
2	6	Z	-3.78
2	6	Y	-1.12

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 4
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR10 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-599.38 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.95
1	1	Z	-3.78
1	1	Y	1.12

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	X	0.95
1	2	Z	-3.78
1	3	X	0.95
1	3	Z	-3.78
1	4	X	0.95
1	4	Z	-3.78
1	5	X	0.95
1	5	Z	-3.78
1	6	X	0.95
1	6	Z	-3.78
1	6	Y	-1.12
2	1	X	0.95
2	1	Z	-3.78
2	1	Y	1.12
2	2	X	0.95
2	2	Z	-3.78
2	3	X	0.95
2	3	Z	-3.78
2	4	X	0.95
2	4	Z	-3.78
2	5	X	0.95
2	5	Z	-3.78
2	6	X	0.95
2	6	Z	-3.78
2	6	Y	-1.12

Auto generation details:

Selected Live Load for BR generation


Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 4
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR11 Name:
Multiplier = 1.000

Cap loads

Units: US (English)

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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads


Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	2	Y	0.94
1	3	X	0.94
1	3	Z	-3.71
1	3	Y	0.94
1	4	X	0.94
1	4	Z	-3.71
1	4	Y	0.94
1	5	X	0.94
1	5	Z	-3.71
1	5	Y	-1.10
1	6	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	2	Y	0.94
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	0.94
2	4	X	0.94
2	4	Z	-3.71
2	4	Y	0.94
2	5	X	0.94
2	5	Z	-3.71
2	5	Y	0.94
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Units: US (English)

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File Name: PIER 12 Straddle.rcp

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Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR12 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	2	Y	0.94
1	3	X	0.94
1	3	Z	-3.71
1	3	Y	0.94
1	4	X	0.94
1	4	Z	-3.71
1	4	Y	0.94
1	5	X	0.94
1	5	Z	-3.71
1	5	Y	0.94
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	2	Y	0.94
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	0.94
2	4	X	0.94
2	4	Z	-3.71
2	4	Y	0.94
2	5	X	0.94
2	5	Z	-3.71
2	5	Y	-1.10
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR13 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.06 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.73
1	1	Z	-2.91
1	1	Y	0.86
1	2	X	0.73
1	2	Z	-2.91
1	3	X	0.73
1	3	Z	-2.91
1	4	X	0.73
1	4	Z	-2.91

Units: US (English)

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Line #	Bearing #	Dir	Load kips
1	5	X	0.73
1	5	Z	-2.91
1	6	X	0.73
1	6	Z	-2.91
2	1	Y	-0.86
2	1	X	0.73
2	1	Z	-2.91
2	1	Y	0.86
2	2	X	0.73
2	2	Z	-2.91
2	3	X	0.73
2	3	Z	-2.91
2	4	X	0.73
2	4	Z	-2.91
2	5	X	0.73
2	5	Z	-2.91
2	6	X	0.73
2	6	Z	-2.91
2	6	Y	-0.86

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 131.75 ft


Loadcase ID: BR14 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.06 k-ft	0.50		

Units: US (English)

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.73
1	1	Z	-2.91
1	1	Y	0.86
1	2	X	0.73
1	2	Z	-2.91
1	2	Y	0.73
1	3	X	0.73
1	3	Z	-2.91
1	4	X	0.73
1	4	Z	-2.91
1	4	Y	0.73
1	5	X	0.73
1	5	Z	-2.91
1	6	X	0.73
1	6	Z	-2.91
1	6	Y	-0.86
2	1	X	0.73
2	1	Z	-2.91
2	1	Y	0.86
2	2	X	0.73
2	2	Z	-2.91
2	2	Y	0.73
2	3	X	0.73
2	3	Z	-2.91
2	3	Y	0.73
2	4	X	0.73
2	4	Z	-2.91
2	4	Y	0.73
2	5	X	0.73
2	5	Z	-2.91
2	5	Y	0.73
2	6	X	0.73
2	6	Z	-2.91
2	6	Y	-0.86


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 131.75 ft

Units: US (English)

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File Name: **Pier 12 Straddle.rcp**

Loadcase ID: BR15 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.06 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.73
1	1	Z	-2.91
1	1	Y	0.86
1	2	X	0.73
1	2	Z	-2.91
1	2	Y	0.73
1	3	X	0.73
1	3	Z	-2.91
1	3	Y	0.73
1	4	X	0.73
1	4	Z	-2.91
1	4	Y	0.73
1	5	X	0.73
1	5	Z	-2.91
1	5	Y	0.73
1	6	X	0.73
1	6	Z	-2.91
1	6	Y	-0.86
2	1	X	0.73
2	1	Z	-2.91
2	1	Y	0.86
2	2	X	0.73
2	2	Z	-2.91
2	2	Y	0.73
2	3	X	0.73
2	3	Z	-2.91
2	3	Y	0.73
2	4	X	0.73
2	4	Z	-2.91
2	4	Y	0.73
2	5	X	0.73
2	5	Z	-2.91
2	5	Y	0.73
2	6	X	0.73
2	6	Z	-2.91
2	6	Y	-0.86

Units: US (English)

Design Code: AASHTO LRFD



Sheet #77

Job #59219

Program:LEAP® RC-PIER® V8i (SELECTseries 5)

Version:12.01.00.57

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Designed CAM

Date9/10/14

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Date

File Name: Pler 12 Straddle.rcp

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR16 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.06 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.73
1	1	Z	-2.91
1	1	Y	0.86
1	2	X	0.73
1	2	Z	-2.91
1	3	X	0.73
1	3	Z	-2.91
1	4	X	0.73
1	4	Z	-2.91
1	5	X	0.73
1	5	Z	-2.91
1	6	X	0.73
1	6	Z	-2.91
1	6	Y	-0.86
2	1	X	0.73
2	1	Z	-2.91
2	1	Y	0.86
2	2	X	0.73
2	2	Z	-2.91

Units: US (English)

Design Code: AASHTO LRFD



Sheet #78

Job #59219

Program:LEAP® RC-PIER® V8i (SELECTseries 5)

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File Name: Pler 12 Straddle.rcp

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR17 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation


Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR18 Name:
Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12 Straddle.rcp**

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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X				-587.86 k-ft	0.50

Bearing loads


Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Units: US (English)

Design Code: AASHTO LRFD



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File Name:

Pier 12 Straddle.rcp

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR19 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	-1.10
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	5	Y	-1.10

Units: US (English)

Design Code: AASHTO LRFD



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File Name:

Pier 12 Straddle.rcp

Line #	Bearing #	Dir	Load kips
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR20 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.44
1	1	Z	-1.75
1	1	Y	0.52
1	2	X	0.44
1	2	Z	-1.75
1	3	X	0.44
1	3	Z	-1.75
1	4	X	0.44
1	4	Z	-1.75

Units: US (English)

Design Code: AASHTO LRFD



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Bearing loads		
Line #	Bearing #	Load kips
1	5	X 0.44
1	5	Z -1.75
1	6	X 0.44
1	6	Z -1.75
1	6	Y -0.52
2	1	X 0.44
2	1	Z -1.75
2	1	Y 0.52
2	2	X 0.44
2	2	Z -1.75
2	3	X 0.44
2	3	Z -1.75
2	4	X 0.44
2	4	Z -1.75
2	5	X 0.44
2	5	Z -1.75
2	6	X 0.44
2	6	Z -1.75
2	6	Y -0.52

Auto generation details:


Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR21 Name: Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64	k-ft	0.50	



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Bearing loads		
Line #	Bearing #	Load kips
1	1	X 0.44
1	1	Z -1.75
1	1	Y 0.52
1	2	X 0.44
1	2	Z -1.75
1	3	X 0.44
1	3	Z -1.75
1	4	X 0.44
1	4	Z -1.75
1	5	X 0.44
1	5	Z -1.75
1	6	X 0.44
1	6	Z -1.75
1	6	Y -0.52
2	1	X 0.44
2	1	Z -1.75
2	1	Y 0.52
2	2	X 0.44
2	2	Z -1.75
2	3	X 0.44
2	3	Z -1.75
2	4	X 0.44
2	4	Z -1.75
2	5	X 0.44
2	5	Z -1.75
2	6	X 0.44
2	6	Z -1.75
2	6	Y -0.52

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 131.75 ft

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Loadcase ID: BR22 Name:
Multiplier = 1.000


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Units: US (English)

Design Code: AASHTO LRFD

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Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR23 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR24 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft


Loadcase ID: BR25 Name:

Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads


Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	2	Y	0.94
1	3	X	0.94
1	3	Z	-3.71
1	3	Y	0.94
1	4	X	0.94
1	4	Z	-3.71
1	4	Y	0.94
1	5	X	0.94
1	5	Z	-3.71
1	5	Y	-1.10
1	6	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	2	Y	0.94
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	0.94
2	4	X	0.94
2	4	Z	-3.71
2	4	Y	0.94
2	5	X	0.94
2	5	Z	-3.71
2	5	Y	0.94
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Units: US (English)

Design Code: AASHTO LRFD



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File Name:

Pier 12 Straddle.rcp

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR26 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	2	Y	0.94
1	3	X	0.94
1	3	Z	-3.71
1	3	Y	0.94
1	4	X	0.94
1	4	Z	-3.71
1	4	Y	0.94
1	5	X	0.94
1	5	Z	-3.71
1	5	Y	0.94
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	2	Y	0.94
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	0.94
2	4	X	0.94
2	4	Z	-3.71
2	4	Y	0.94
2	5	X	0.94
2	5	Z	-3.71
2	5	Y	-1.10

Units: US (English)

Design Code: AASHTO LRFD



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File Name: **Pier 12 Straddle.rcp**

Line #	Bearing #	Dir	Load kips
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR27 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1 k-ft	x1/L	Mag2 x2/L
Moment	X		-587.86	0.50	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft


Loadcase ID: BR28 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1 k-ft	x1/L	Mag2 x2/L
Moment	X		-587.86	0.50	

Units: US (English)

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	2	Y	0.94
1	3	Z	-3.71
1	3	X	0.94
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10


Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Units: US (English)

Design Code: AASHTO LRFD



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File Name: Pier 12 Straddle.rcp

Loadcase ID: BR29 Name:

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1 x1/L	Mag2 x2/L
Moment	X		-276.64 k-ft	0.50

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.44
1	1	Z	-1.75
1	1	Y	0.52
1	2	X	0.44
1	2	Z	-1.75
1	3	X	0.44
1	3	Z	-1.75
1	4	X	0.44
1	4	Z	-1.75
1	5	X	0.44
1	5	Z	-1.75
1	6	X	0.44
1	6	Z	-1.75
1	6	Y	-0.52
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.52
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	6	Y	-0.52

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR30 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64	k-ft	0.50	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.44
1	1	Z	-1.75
1	1	Y	0.52
1	2	X	0.44
1	2	Z	-1.75
1	3	X	0.44
1	3	Z	-1.75
1	4	X	0.44
1	4	Z	-1.75
1	5	X	0.44
1	5	Z	-1.75
1	6	X	0.44
1	6	Z	-1.75
1	6	Y	-0.52
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.52
2	2	X	0.44
2	2	Z	-1.75

Units: US (English)

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Auto generation details:

Selected Live Load for BR generation
Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR31 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86	k-ft	0.50	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation


Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR32 Name:
Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



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Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X					
			-587.86 k-ft	0.50		

Bearing loads


Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Units: US (English)

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Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR33 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.94
1	1	Z	-3.71
1	1	Y	1.10
1	2	X	0.94
1	2	Z	-3.71
1	3	X	0.94
1	3	Z	-3.71
1	4	X	0.94
1	4	Z	-3.71
1	5	X	0.94
1	5	Z	-3.71
1	6	X	0.94
1	6	Z	-3.71
1	6	Y	-1.10
2	1	X	0.94
2	1	Z	-3.71
2	1	Y	1.10
2	2	X	0.94
2	2	Z	-3.71
2	3	X	0.94
2	3	Z	-3.71
2	3	Y	-1.10
2	4	X	0.94
2	4	Z	-3.71
2	5	X	0.94
2	5	Z	-3.71

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	6	X	0.94
2	6	Z	-3.71
2	6	Y	-1.10

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR34 Name:
Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		461.06 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.73
1	1	Z	-2.91
1	1	Y	0.86
1	2	X	0.73
1	2	Z	-2.91
1	3	X	0.73
1	3	Z	-2.91
1	4	X	0.73
1	4	Z	-2.91

Units: US (English)

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Line #		Bearing #	Dir	Load kips
1	5	X	0.73	
1	5	Z	-2.91	
1	6	X	0.73	
1	6	Z	-2.91	
1	6	Y	-0.86	
2	1	X	0.73	
2	1	Z	-2.91	
2	1	Y	0.86	
2	2	X	0.73	
2	2	Z	-2.91	
2	3	X	0.73	
2	3	Z	-2.91	
2	4	X	0.73	
2	4	Z	-2.91	
2	5	X	0.73	
2	5	Z	-2.91	
2	6	X	0.73	
2	6	Z	-2.91	
2	6	Y	-0.86	

Auto generation details:

Selected Live Load for BR generation


Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 131.75 ft

Loadcase ID: BR35 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



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Line #		Bearing #	Dir	Load kips
1	1	X	0.94	
1	1	Z	-3.71	
1	1	Y	1.10	
1	2	X	0.94	
1	2	Z	-3.71	
1	3	X	0.94	
1	3	Z	-3.71	
1	4	X	0.94	
1	4	Z	-3.71	
1	5	X	0.94	
1	5	Z	-3.71	
1	6	X	0.94	
1	6	Z	-3.71	
1	6	Y	-1.10	
2	1	X	0.94	
2	1	Z	-3.71	
2	1	Y	1.10	
2	2	X	0.94	
2	2	Z	-3.71	
2	3	X	0.94	
2	3	Z	-3.71	
2	4	X	0.94	
2	4	Z	-3.71	
2	5	X	0.94	
2	5	Z	-3.71	
2	6	X	0.94	
2	6	Z	-3.71	
2	6	Y	-1.10	

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Load: Design Tandem + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 131.75 ft



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Loadcase ID: WS1 Name: Angle: 0
Multiplier = 1.000

Cap loads		Arm	Mag1	x1/L	Mag2	x2/L
Type	Dir	ft				
Force	X	0.00	-7.62 kips	0.50		
UDL	Z		-0.02 klf	0.00		1.00

Column loads


Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.195 klf	0.00		1.00
2	UDL	Z	-0.049 klf	0.00		1.00
1	UDL	X	-0.195 klf	0.00		0.92
1	UDL	Z	-0.049 klf	0.00		0.92
3	UDL	X	0.195 klf	0.00		1.00
3	UDL	Z	0.049 klf	0.00		1.00
4	UDL	X	0.195 klf	0.00		0.92
4	UDL	Z	0.049 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-6.00
1	1	Y	-7.00
1	1	Z	-1.51
1	2	X	-6.00
1	2	Y	12.34
1	2	Z	-1.51
1	3	X	-6.00
1	3	Y	12.34
1	3	Z	-1.51
1	4	X	-6.00
1	4	Y	12.34
1	4	Z	-1.51
1	5	X	-6.00
1	5	Y	12.34
1	5	Z	-1.51
1	6	X	-6.00
1	6	Y	31.67
1	6	Z	-1.51

Units: US (English)

Design Code: AASHTO LRFD



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Auto generation details:

Generated Wind Load on Structure

Angle of wind = 0.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:

Transverse 62.089 psf Cap 45.958 psf

Longitudinal 0.000 psf Column 45.958 psf

Overturning 20.000 psf

Loadcase ID: WS2 Name: Angle: -15


Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.52 kips	0.50		
UDL	Z		-0.07 klf	0.00		1.00

Units: US (English)

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Column loads				
Col #	Type	Dir	Mag1	y1/L Mag2 y2/L
2	UDL	X	-0.222 klf	0.00
2	UDL	Z	-0.124 klf	0.00
1	UDL	X	-0.222 klf	0.00
1	UDL	Z	-0.124 klf	0.00
3	UDL	X	0.222 klf	0.00
3	UDL	Z	0.124 klf	0.00
4	UDL	X	0.222 klf	0.00
4	UDL	Z	0.124 klf	0.00

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-5.10
1	1	Y	-2.23
1	1	Z	-2.05
1	2	X	-5.10
1	2	Y	-0.00
1	2	Z	-2.05
1	3	X	-5.10
1	3	Y	-0.00
1	3	Z	-2.05
1	4	X	-5.10
1	4	Y	-0.00
1	4	Z	-2.05
1	5	X	-5.10
1	5	Y	-0.00
1	5	Z	-2.05
1	6	X	-5.10
1	6	Y	2.23
1	6	Z	-2.05
2	1	X	-5.99
2	1	Y	-2.62
2	1	Z	-2.41
2	2	X	-5.99
2	2	Y	-0.00
2	2	Z	-2.41
2	3	X	-5.99
2	3	Y	-0.00
2	3	Z	-2.41
2	4	X	-5.99
2	4	Y	-0.00
2	4	Z	-2.41

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	5	X	-5.99
2	5	Y	-0.00
2	5	Z	-2.41
2	6	X	-5.99
2	6	Y	2.62
2	6	Z	-2.41

Auto generation details:

Generated Wind Load on Structure

Angle of wind = -15.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 54.638 psf Cap 45.958 psf
Longitudinal 7.451 psf Column 45.958 psf
Overturning not considered

Loadcase ID: WS3 Name: Angle: -30

Multiplier = 1.000

Cap loads


Type	Dir	Arm ft	Mag1	x1/L	Mag2 x2/L
Force	X	0.00	-14.23 kips	0.50	
UDL	Z		-0.14 klf	0.00	1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2 y2/L
2	UDL	X	-0.209 klf	0.00	1.00
2	UDL	Z	-0.203 klf	0.00	1.00
1	UDL	X	-0.209 klf	0.00	0.92
1	UDL	Z	-0.203 klf	0.00	0.92
3	UDL	X	0.209 klf	0.00	1.00
3	UDL	Z	0.203 klf	0.00	1.00
4	UDL	X	0.209 klf	0.00	0.92

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Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
4	UDL	Z	0.203 klf	0.00	0.92	0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-4.56
1	1	Y	-2.00
1	1	Z	-2.68
1	2	X	-4.56
1	2	Y	-0.00
1	2	Z	-2.68
1	3	X	-4.56
1	3	Y	-0.00
1	3	Z	-2.68
1	4	X	-4.56
1	4	Y	-0.00
1	4	Z	-2.68
1	5	X	-4.56
1	5	Y	-0.00
1	5	Z	-2.68
1	6	X	-4.56
1	6	Y	2.00
1	6	Z	-2.68
2	1	X	-5.36
2	1	Y	-2.35
2	1	Z	-3.15
2	2	X	-5.36
2	2	Y	-0.00
2	2	Z	-3.15
2	3	X	-5.36
2	3	Y	-0.00
2	3	Z	-3.15
2	4	X	-5.36
2	4	Y	-0.00
2	4	Z	-3.15
2	5	X	-5.36
2	5	Y	-0.00
2	5	Z	-3.15
2	6	X	-5.36
2	6	Y	2.35
2	6	Z	-3.15

Units: US (English)

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Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
4	UDL	Z	0.203 klf	0.00	0.92	0.92

Generated Wind Load on Structure

Angle of wind = -30.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 50.913 psf Cap 45.958 psf
Longitudinal 14.901 psf Column 45.958 psf
Overturning not considered

Loadcase ID: WS4 Name: Angle: -45
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.30 kips	0.50		
UDL	Z		-0.21 klf	0.00		1.00

Column loads


Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.158 klf	0.00	1.00	1.00
2	UDL	Z	-0.264 klf	0.00	1.00	0.92
1	UDL	X	-0.158 klf	0.00	0.92	0.92
1	UDL	Z	-0.264 klf	0.00	1.00	1.00
3	UDL	X	0.158 klf	0.00	1.00	0.92
3	UDL	Z	0.264 klf	0.00	1.00	0.92
4	UDL	X	0.158 klf	0.00	0.92	0.92
4	UDL	Z	0.264 klf	0.00	0.92	0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-3.48
1	1	Y	-1.52
1	1	Z	-2.92
1	2	X	-3.48
1	2	Y	-0.00
1	2	Z	-2.92

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	3	X	-3.48
1	3	Y	-0.00
1	3	Z	-2.92
1	4	X	-3.48
1	4	Y	-0.00
1	4	Z	-2.92
1	5	X	-3.48
1	5	Y	-0.00
1	5	Z	-2.92
1	6	X	-3.48
1	6	Y	1.52
1	6	Z	-2.92
2	1	X	-4.08
2	1	Y	-1.79
2	1	Z	-3.43
2	2	X	-4.08
2	2	Y	-0.00
2	2	Z	-3.43
2	3	X	-4.08
2	3	Y	-0.00
2	3	Z	-3.43
2	4	X	-4.08
2	4	Y	-0.00
2	4	Z	-3.43
2	5	X	-4.08
2	5	Y	-0.00
2	5	Z	-3.43
2	6	X	-4.08
2	6	Y	1.79
2	6	Z	-3.43

Auto generation details:

Generated Wind Load on Structure

Angle of wind = -45.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:


Transverse 40.979 psf Cap 45.958 psf

Longitudinal 19.868 psf Column 45.958 psf

Overturning not considered

Units: US (English)

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Loadcase ID: WS5 Name: Angle: -60

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	y2/L
Force	X	0.00	-7.24 kips	0.50		
UDL	Z		-0.26 klf	0.00		1.00

Column loads


Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	X	-0.083 klf	0.00		1.00
2	UDL	Z	-0.291 klf	0.00		1.00
1	UDL	X	-0.083 klf	0.00		0.92
1	UDL	Z	-0.291 klf	0.00		0.92
3	UDL	X	0.083 klf	0.00		1.00
3	UDL	Z	0.291 klf	0.00		1.00
4	UDL	X	0.083 klf	0.00		0.92
4	UDL	Z	0.291 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-1.47
1	1	Y	-0.64
1	1	Z	-2.80
1	2	X	-1.47
1	2	Y	-0.00
1	2	Z	-2.80
1	3	X	-1.47
1	3	Y	-0.00
1	3	Z	-2.80
1	4	X	-1.47
1	4	Y	-0.00
1	4	Z	-2.80
1	5	X	-1.47
1	5	Y	-0.00
1	5	Z	-2.80
1	6	X	-1.47
1	6	Y	0.64
1	6	Z	-2.80

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Line #	Bearing #	Dir	Load kips
2	1	X	-1.72
2	1	Y	-0.75
2	1	Z	-3.28
2	2	X	-1.72
2	2	Y	-0.00
2	2	Z	-3.28
2	3	X	-1.72
2	3	Y	-0.00
2	3	Z	-3.28
2	4	X	-1.72
2	4	Y	-0.00
2	4	Z	-3.28
2	5	X	-1.72
2	5	Y	-0.00
2	5	Z	-3.28
2	6	X	-1.72
2	6	Y	0.75
2	6	Z	-3.28

Auto generation details:

Generated Wind Load on Structure

Angle of wind = -60.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 21.110 psf Cap 45.958 psf
Longitudinal 23.594 psf Column 45.958 psf
Overturning not considered


Loadcase ID: WS6 Name: Angle: -75
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1 kips	x1/L	Mag2 kips	x2/L
Force	X	0.00	-0.40	0.50		
UDL	Z		-0.28	0.00		1.00

Units: US (English)

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Column loads


Col #	Type	Dir	Mag1 kif	y1/L	Mag2 kif	y2/L
2	UDL	X	-0.004	0.00	0.00	1.00
2	UDL	Z	-0.278	0.00	0.00	1.00
1	UDL	X	-0.004	0.00	0.00	0.92
1	UDL	Z	-0.278	0.00	0.00	0.92
3	UDL	X	0.004	0.00	0.00	1.00
3	UDL	Z	0.278	0.00	0.00	1.00
4	UDL	X	0.004	0.00	0.00	0.92
4	UDL	Z	0.278	0.00	0.00	0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.65
1	1	Y	-0.29
1	1	Z	-2.97
1	2	X	-0.65
1	2	Y	-0.00
1	2	Z	-2.97
1	3	X	-0.65
1	3	Y	-0.00
1	3	Z	-2.97
1	4	X	-0.65
1	4	Y	-0.00
1	4	Z	-2.97
1	5	X	-0.65
1	5	Y	-0.00
1	5	Z	-2.97
1	6	X	-0.65
1	6	Y	0.29
1	6	Z	-2.97
2	1	X	-0.77
2	1	Y	-0.34
2	1	Z	-3.49
2	2	X	-0.77
2	2	Y	-0.00
2	2	Z	-3.49
2	3	X	-0.77
2	3	Y	-0.00
2	3	Z	-3.49
2	4	X	-0.77
2	4	Y	-0.00
2	4	Z	-3.49

Units: US (English)

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Line #	Bearing #	Dir	Load kips
2	5	X	-0.77
2	5	Y	-0.00
2	5	Z	-3.49
2	6	X	-0.77
2	6	Y	0.34
2	6	Z	-3.49

Auto generation details:

Generated Wind Load on Structure

Angle of wind = -75.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 13.660 psf Cap 45.958 psf
Longitudinal 27.319 psf Column 45.958 psf
Overturning not considered


Loadcase ID: WL1 Name: Angle: 0
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.98
1	1	Y	-1.15
1	1	Z	-0.25
1	2	X	-0.98
1	2	Y	-0.00
1	2	Z	-0.25
1	3	X	-0.98
1	3	Y	-0.00
1	3	Z	-0.25
1	4	X	-0.98

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	4	Y	-0.00
1	4	Z	-0.25
1	5	X	-0.98
1	5	Y	-0.00
1	5	Z	-0.25
1	6	X	-0.98
1	6	Y	1.15
1	6	Z	-0.25
2	1	X	-1.15
2	1	Y	-1.35
2	1	Z	-0.29
2	2	X	-1.15
2	2	Y	-0.00
2	2	Z	-0.29
2	3	X	-1.15
2	3	Y	-0.00
2	3	Z	-0.29
2	4	X	-1.15
2	4	Y	-0.00
2	4	Z	-0.29
2	5	X	-1.15
2	5	Y	-0.00
2	5	Z	-0.29
2	6	X	-1.15
2	6	Y	1.35
2	6	Z	-0.29

Auto generation details:


Generated Wind Load on Live Load

Angle of wind = 0.00 deg Live load length = 131.75 ft

Loadcase ID: WL2 Name: Angle: -15
Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



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Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.83
1	1	Y	-0.97
1	1	Z	-0.33
1	2	X	-0.83
1	2	Y	-0.00
1	2	Z	-0.33
1	3	X	-0.83
1	3	Y	-0.00
1	3	Z	-0.33
1	4	X	-0.83
1	4	Y	-0.00
1	4	Z	-0.33
1	5	X	-0.83
1	5	Y	-0.00
1	5	Z	-0.33
1	6	X	-0.83
1	6	Y	0.97
1	6	Z	-0.33
2	1	X	-0.98
2	1	Y	-1.15
2	1	Z	-0.39
2	2	X	-0.98
2	2	Y	-0.00
2	2	Z	-0.39
2	3	X	-0.98
2	3	Y	-0.00
2	3	Z	-0.39
2	4	X	-0.98
2	4	Y	-0.00
2	4	Z	-0.39
2	5	X	-0.98
2	5	Y	-0.00
2	5	Z	-0.39
2	6	X	-0.98
2	6	Y	1.15
2	6	Z	-0.39

Auto generation details:
Generated Wind Load on Live Load
Angle of wind = -15.00 deg Live load length = 131.75 ft



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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.74
1	1	Y	-0.87
1	1	Z	-0.44
1	2	X	-0.74
1	2	Y	-0.00
1	2	Z	-0.44
1	3	X	-0.74
1	3	Y	-0.00
1	3	Z	-0.44
1	4	X	-0.74
1	4	Y	-0.00
1	4	Z	-0.44
1	5	X	-0.74
1	5	Y	-0.00
1	5	Z	-0.44
1	6	X	-0.74
1	6	Y	0.87
1	6	Z	-0.44
2	1	X	-0.87
2	1	Y	-1.02
2	1	Z	-0.51
2	2	X	-0.87
2	2	Y	-0.00
2	2	Z	-0.51
2	3	X	-0.87
2	3	Y	-0.00
2	3	Z	-0.51
2	4	X	-0.87
2	4	Y	-0.00
2	4	Z	-0.51
2	5	X	-0.87
2	5	Y	-0.00
2	5	Z	-0.51
2	6	X	-0.87
2	6	Y	1.02
2	6	Z	-0.51



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Job #

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Program:
Version:

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File Name:

Pier 12 Straddle.rcp

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = -30.00 deg Live load length = 131.75 ft

Loadcase ID: WL4 Name: Angle: -45


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.57
1	1	Y	-0.66
1	1	Z	-0.48
1	2	X	-0.57
1	2	Y	-0.00
1	2	Z	-0.48
1	3	X	-0.57
1	3	Y	-0.00
1	3	Z	-0.48
1	4	X	-0.57
1	4	Y	-0.00
1	4	Z	-0.48
1	5	X	-0.57
1	5	Y	-0.00
1	5	Z	-0.48
1	6	X	-0.57
1	6	Y	0.66
1	6	Z	-0.48
2	1	X	-0.67
2	1	Y	-0.78
2	1	Z	-0.56
2	2	X	-0.67
2	2	Y	-0.00
2	2	Z	-0.56
2	3	X	-0.67

Units: US (English)

Design Code: AASHTO LRFD



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File Name:

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Auto generation details:

Generated Wind Load on Live Load

Angle of wind = -45.00 deg Live load length = 131.75 ft

Loadcase ID: WL5 Name: Angle: -60


Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.24
1	1	Y	-0.28
1	1	Z	-0.46
1	2	X	-0.24
1	2	Y	-0.00
1	2	Z	-0.46
1	3	X	-0.24
1	3	Y	-0.00
1	3	Z	-0.46
1	4	X	-0.24
1	4	Y	-0.00

Units: US (English)

Design Code: AASHTO LRFD



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Line #	Bearing #	Dir	Load kips
1	4	Z	-0.46
1	5	X	-0.24
1	5	Y	-0.00
1	5	Z	-0.46
1	6	X	-0.24
1	6	Y	0.28
1	6	Z	-0.46
2	1	X	-0.28
2	1	Y	-0.33
2	1	Z	-0.54
2	2	X	-0.28
2	2	Y	-0.00
2	2	Z	-0.54
2	3	X	-0.28
2	3	Y	-0.00
2	3	Z	-0.54
2	4	X	-0.28
2	4	Y	-0.00
2	4	Z	-0.54
2	5	X	-0.28
2	5	Y	-0.00
2	5	Z	-0.54
2	6	X	-0.28
2	6	Y	0.33
2	6	Z	-0.54

Auto generation details:

Generated Wind Load on Live Load


Angle of wind = -60.00 deg Live load length = 131.75 ft

Loadcase ID: WL6 Name: Angle: -75

Multiplier = 1.000

Units: US (English)

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Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.03
1	1	Y	-0.04
1	1	Z	-0.45
1	2	X	-0.03
1	2	Y	-0.00
1	2	Z	-0.45
1	3	X	-0.03
1	3	Y	-0.00
1	3	Z	-0.45
1	4	X	-0.03
1	4	Y	-0.00
1	4	Z	-0.45
1	5	X	-0.03
1	5	Y	-0.00
1	5	Z	-0.45
1	6	X	-0.03
1	6	Y	0.04
1	6	Z	-0.45
2	1	X	-0.04
2	1	Y	-0.05
2	1	Z	-0.52
2	2	X	-0.04
2	2	Y	-0.00
2	2	Z	-0.52
2	3	X	-0.04
2	3	Y	-0.00
2	3	Z	-0.52
2	4	X	-0.04
2	4	Y	-0.00
2	4	Z	-0.52
2	5	X	-0.04
2	5	Y	-0.00
2	5	Z	-0.52
2	6	X	-0.04
2	6	Y	0.05
2	6	Z	-0.52


Auto generation details:

Generated Wind Load on Live Load

Angle of wind = -75.00 deg Live load length = 131.75 ft


Units: US (English)

Design Code: AASHTO LRFD

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Selected load groups

- STRENGTH GROUP I
- STRENGTH GROUP III
- STRENGTH GROUP V
- SERVICE GROUP I

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ANALYSIS RESULTS

Global Coordinate System, Units: kip kft

LOAD CASES RESULTS FROM FRAME ANALYSIS:

Loadcase ID: SELF			Name: Self Load of Structure						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft		
1	1	76.93	343.94	0.00	-0.00	0.00	-261.01		
3	4	-76.93	343.94	0.00	-0.00	0.00	261.01		

Loadcase ID: DC1

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	478.94	1182.46	-0.02	104.75	0.83	-6903.84
3	4	-478.94	1158.82	0.02	102.91	0.83	6921.19

Loadcase ID: LL1

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	88.98	130.48	-0.00	-4.30	0.16	-1443.43
3	4	-88.98	259.14	0.00	-4.66	0.16	1125.14

Loadcase ID: LL1

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL2

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	63.04	114.29	-0.06	-162.01	2.99	-962.16
3	4	-63.04	159.30	0.06	-168.57	2.99	857.64

Loadcase ID: LL2

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL3

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	67.62	122.54	0.07	173.70	-3.21	-1031.94
3	4	-67.62	170.81	-0.07	180.75	-3.21	919.94


Loadcase ID: LL3

Name:

No impact factor is included in the individual live load.

Units: US (English)

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		Designed CAM
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Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		www.bentley.com
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277

Loadcase ID: LL4

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	98.42	213.45	0.00	-4.53	-0.05	-1368.93
3	4	-98.42	176.17	-0.00	-4.43	-0.05	1472.04

Loadcase ID: LL4

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL5

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	65.72	96.35	0.14	166.91	-6.29	-1066.10
3	4	-65.72	191.36	-0.14	180.73	-6.29	830.95

Loadcase ID: LL5

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL6

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	61.27	89.86	-0.13	-155.67	5.87	-993.91
3	4	-61.27	178.47	0.13	-168.55	5.87	774.79

Loadcase ID: LL6

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL7

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	97.57	167.34	-0.00	-4.40	0.07	-1483.65
3	4	-97.57	222.28	0.00	-4.55	0.07	1332.64

Loadcase ID: LL7

Name:

No impact factor is included in the individual live load.

Loadcase ID: LL8

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	89.02	259.15	0.00	-4.66	-0.16	-1125.39
3	4	-89.02	130.47	-0.00	-4.30	-0.16	1444.11

Loadcase ID: LL8

Name:

No impact factor is included in the individual live load.


Loadcase ID: LL9

Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	98.42	213.45	0.00	-4.53	-0.05	-1368.93
3	4	-98.42	176.17	-0.00	-4.43	-0.05	1472.04


Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	3				
		Job #	59219				
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed	CAM				
Version: 12.01.00.57		Date	9/10/14				
File Name: Pier 12 Straddle.rcp		Checked					
		Date					
		SE Client Licenses Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277					
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	64.61	165.83	0.08	-169.52	-3.85	-863.29
3	4	-64.61	107.77	-0.08	-161.06	-3.85	1001.76
Loadcase ID: LL9 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	69.26	177.79	-0.09	181.76	4.13	-925.59
3	4	-69.26	115.55	0.09	172.69	4.13	1073.60
Loadcase ID: LL10 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	65.73	191.36	-0.14	180.73	6.29	-831.01
3	4	-65.73	96.35	0.14	166.91	6.29	1066.22
Loadcase ID: LL11 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	61.33	178.48	0.13	-168.55	-5.87	-775.22
3	4	-61.33	89.85	-0.13	-155.67	5.87	995.01
Loadcase ID: LL12 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	64.70	221.11	0.00	-3.70	-0.17	-769.64
3	4	-64.70	84.48	-0.00	-3.32	-0.17	1097.98
Loadcase ID: LL13 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	47.77	163.27	-0.14	143.67	6.69	-568.23


Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	4				
		Job #	59219				
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed	CAM				
Version: 12.01.00.57		Date	9/10/14				
File Name: Pier 12 Straddle.rcp		Checked					
		Date					
		SE Client Licenses Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277					
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	47.77	62.38	0.14	128.98	6.69	810.56
3	4	-47.77	221.10	0.00	-3.70	0.17	769.39
Loadcase ID: LL14 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	64.68	84.48	-0.00	-3.32	0.17	-1097.51
3	4	-64.68	221.10	0.00	-3.70	0.17	769.39
Loadcase ID: LL15 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	47.76	62.38	0.14	128.98	-6.69	-810.50
3	4	-47.76	163.27	-0.14	143.67	-6.69	568.20
Loadcase ID: LL16 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	72.03	123.57	0.06	170.89	-2.67	-1095.23
3	4	-72.03	164.14	-0.06	176.75	-2.67	983.85
Loadcase ID: LL17 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	67.21	115.24	-0.05	-159.38	2.49	-1022.11
3	4	-67.21	153.09	0.05	-164.85	2.49	917.98
Loadcase ID: LL18 Name:							
No impact factor is included in the individual live load.							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	88.29	154.75	-0.05	-54.57	2.23	-1329.01
3	4	-88.29	194.44	0.05	-59.47	2.23	1219.41


Units: US (English)

Design Code: AASHTO LRFD

		Sheet # Job #	5 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
Loadcase ID: LL19 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL20 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL21 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL22 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL23 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL24 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL25 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL26 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL27 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL28 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL29 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL30 Name:		Date	
No impact factor is included in the individual live load.			


Units: US (English)

Design Code: AASHTO LRFD

		Sheet # Job #	6 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
Loadcase ID: LL25 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL26 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL27 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL28 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL29 Name:		Date	
No impact factor is included in the individual live load.			
Loadcase ID: LL30 Name:		Date	
No impact factor is included in the individual live load.			

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 7
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		www.bentley.com
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Designed CAM
		Date 9/10/14
		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-23.60	127.67	-0.10	-71.10	-4.73	418.30

Loadcase ID: LL30 Name:

No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	89.59	192.71	-0.05	78.02	2.34	-1251.96
3	4	-89.59	162.40	0.05	72.88	2.34	1334.02

Loadcase ID: LL31 Name:

No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	71.74	161.95	-0.05	176.43	2.38	-985.92
3	4	-71.74	125.75	0.05	171.20	2.38	1084.79

Loadcase ID: LL32 Name:

No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	66.88	151.05	0.05	-164.55	-2.22	-919.21
3	4	-66.88	117.28	-0.05	-159.67	-2.22	1011.25

Loadcase ID: LL33 Name:

No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	64.56	220.65	-0.02	21.71	1.01	-768.02
3	4	-64.56	84.30	0.02	19.49	1.01	1095.63


Loadcase ID: LL34 Name:

No impact factor is included in the individual live load.

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	97.16	219.32	0.00	-4.55	-0.06	-1335.40
3	4	-97.16	170.30	-0.00	-4.41	-0.06	1469.09

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 8
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Designed CAM
		Date 9/10/14
		Checked
		Date

Loadcase ID: LL35 Name:
No impact factor is included in the individual live load.

Loadcase ID: BR1 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.59	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR2 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.70	-4.22	22.85	1277.09	-135.66	125.16
3	4	-5.74	4.22	22.53	1269.43	137.85	125.65

Loadcase ID: BR3 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.70	-4.22	22.85	1277.09	-135.66	125.16
3	4	-5.74	4.22	22.53	1269.43	137.85	125.65

Loadcase ID: BR4 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR5 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR6 Name:


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR7 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 9
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
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		Checked 9/10/14
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR8 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR9 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.70	-4.22	22.85	1277.09	-135.66	125.16
3	4	-5.74	4.22	22.53	1269.43	137.85	125.65

Loadcase ID: BR10 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.70	-4.22	22.85	1277.09	-135.66	125.16
3	4	-5.74	4.22	22.53	1269.43	137.85	125.65

Loadcase ID: BR11 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24


Loadcase ID: BR12 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR13 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-4.39	-3.25	17.58	982.37	-104.35	96.28
3	4	-4.41	3.25	17.33	976.48	106.04	96.66

Loadcase ID: BR14 Name:

		Sheet # 10
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		Checked 9/10/14
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-4.39	-3.25	17.58	982.37	-104.35	96.28
3	4	-4.41	3.25	17.33	976.48	106.04	96.66

Loadcase ID: BR15 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-4.39	-3.25	17.58	982.37	-104.35	96.28
3	4	-4.41	3.25	17.33	976.48	106.04	96.66

Loadcase ID: BR16 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-4.39	-3.25	17.58	982.37	-104.35	96.28
3	4	-4.41	3.25	17.33	976.48	106.04	96.66

Loadcase ID: BR17 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR18 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR19 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR20 Name:


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-2.63	-1.95	10.55	589.42	-62.61	57.77
3	4	-2.65	1.95	10.40	585.89	63.62	57.99

Loadcase ID: BR21 Name:

Units: US (English)

Design Code: AASHTO LRFD

Design Code: AASHTO LRFD

		Sheet # 11
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		
Version: 12.01.00.57		
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Phone: 1-800-778-4277		
File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-2.63	-1.95	10.55	589.42	-62.61	57.77
3	4	-2.65	1.95	10.40	585.89	63.62	57.99

Loadcase ID: BR22 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR23 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR24 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR25 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR26 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24


Loadcase ID: BR27 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR28 Name:

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 12
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		
Version: 12.01.00.57		
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www.bentley.com		
Phone: 1-800-778-4277		
File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR29 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-2.63	-1.95	10.55	589.42	-62.61	57.77
3	4	-2.65	1.95	10.40	585.89	63.62	57.99

Loadcase ID: BR30 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-2.63	-1.95	10.55	589.42	-62.61	57.77
3	4	-2.65	1.95	10.40	585.89	63.62	57.99

Loadcase ID: BR31 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR32 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: BR33 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24


Loadcase ID: BR34 Name:

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-4.39	-3.25	17.58	982.37	-104.35	96.28
3	4	-4.41	3.25	17.33	976.48	106.04	96.66

Loadcase ID: BR35 Name:

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 13	
		Job # 59219	
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File Name: PIER 12 Straddle.rcp		Phone: 1-800-778-4277	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	-5.59	-4.14	22.41	1252.53	-133.05	122.76
3	4	-5.63	4.14	22.10	1245.02	135.20	123.24

Loadcase ID: WS1 Name: Angle: 0

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	14.78	-30.43	12.74	482.90	-58.43	-480.85
3	4	71.71	-130.53	9.07	431.34	70.21	-1357.41

Loadcase ID: WS2 Name: Angle: -15

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	44.70	20.90	21.63	783.20	-84.81	-925.38
3	4	35.01	-20.90	12.49	658.93	111.48	-848.22

Loadcase ID: WS3 Name: Angle: -30

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	41.71	19.26	32.13	1138.99	-118.41	-863.32
3	4	32.61	-19.26	17.26	937.44	161.51	-790.85

Loadcase ID: WS4 Name: Angle: -45

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	32.50	14.96	39.38	1374.21	-138.36	-674.36
3	4	25.63	-14.96	20.07	1113.00	194.11	-619.66

Loadcase ID: WS5 Name: Angle: -60

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	15.10	6.70	42.05	1451.97	-142.96	-310.68
3	4	11.49	-6.70	20.76	1164.50	204.22	-281.88


Loadcase ID: WS6 Name: Angle: -75

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	4.56	2.44	43.57	1528.93	-155.61	-100.11
3	4	4.39	-2.44	23.25	1254.33	214.17	-98.84

Loadcase ID: WL1 Name: Angle: 0

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 14	
		Job # 59219	
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File Name: PIER 12 Straddle.rcp		Phone: 1-800-778-4277	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	6.37	4.72	1.62	69.39	-9.62	-139.74
3	4	6.41	-4.72	1.60	68.84	9.80	-140.25

Loadcase ID: WL2 Name: Angle: -15

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	5.41	4.01	2.20	94.08	-13.05	-118.74
3	4	5.44	-4.01	2.17	93.35	13.28	-119.18

Loadcase ID: WL3 Name: Angle: -30

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	4.84	3.58	2.87	122.92	-17.06	-106.13
3	4	4.86	-3.58	2.84	121.99	17.35	-106.52

Loadcase ID: WL4 Name: Angle: -45

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	3.69	2.73	3.13	133.82	-18.58	-80.95
3	4	3.71	-2.73	3.09	132.82	18.88	-81.25

Loadcase ID: WL5 Name: Angle: -60

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1.56	1.15	2.99	128.12	-17.79	-34.12
3	4	1.56	-1.15	2.96	127.17	18.07	-34.25

Loadcase ID: WL6 Name: Angle: -75


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	0.22	0.16	2.93	125.25	-17.40	-4.76
3	4	0.22	-0.16	2.89	124.33	17.66	-4.78

COMBINATION OF LOADS FROM FRAME ANALYSIS:

Combination No. 1

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 15
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
File Name: Pier 12 Straddle.rcp		
Group Id: STR GP 1 Name: STRENGTH GROUP 1		

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.80	2162.84	39.18	2307.06	-231.19	-11640.78
3	4	-883.44	2406.27	38.70	2290.32	238.24	11453.59

Combination No. 2
Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.18	2142.28	39.83	2023.24	-230.03	-10771.66
3	4	-838.20	2222.73	39.59	1993.66	248.61	11011.26

Combination No. 3
Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.48	2157.24	40.11	2729.63	-243.07	-10898.32
3	4	-846.51	2243.58	39.30	2728.69	235.56	11124.35

Combination No. 4
Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	882.75	2329.52	39.20	2306.22	-231.96	-11490.95
3	4	-902.39	2239.59	38.69	2291.16	237.47	12150.41

Combination No. 5
Group Id: STR GP 1 Name: STRENGTH GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.70	2102.53	39.48	2672.42	-244.96	-10974.09
3	4	-842.34	2286.48	38.41	2685.93	224.47	10933.76

Combination No. 6
Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 6

Units: US (English)

Design Code: AASHTO LRFD

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File Name: Pier 12 Straddle.rcp		
Group Id: STR GP 1 Name: STRENGTH GROUP 1		

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.62	2090.77	38.93	1993.66	-219.38	-10843.00
3	4	-834.26	2263.11	38.96	1950.98	250.05	10831.82

Combination No. 7
Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 7

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	881.04	2236.89	39.19	2306.68	-231.54	-11721.63
3	4	-900.68	2332.22	38.70	2290.70	237.89	11870.45

Combination No. 8

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 8

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.88	2421.32	39.21	2305.75	-232.38	-11002.03
3	4	-883.52	2147.79	38.68	2291.63	237.05	12094.58

Combination No. 9

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 9

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	821.49	2251.27	40.14	2007.35	-244.50	-10562.56
3	4	-841.52	2113.74	39.27	2009.55	234.14	11316.14

Combination No. 10

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 10

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.91	2272.97	39.78	2746.51	-227.71	-10675.45
3	4	-849.93	2127.85	39.64	2711.82	250.93	11446.14

Combination No. 11


Group Id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 11

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.71	2301.52	38.91	2701.36	-218.61	-10481.72

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-842.35	2087.48	38.97	2656.99	250.82	11426.57

Combination No. 12

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.75	2278.17	39.46	1966.41	-244.20	-10380.70
3	4	-834.39	2075.71	38.42	1978.23	225.23	11297.77

Combination No. 13

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.14	2346.46	30.75	1836.49	-182.20	-10333.64
3	4	-832.54	2053.84	30.34	1825.28	185.98	11352.63

Combination No. 14

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.20	2244.25	30.43	2150.99	-167.56	-9977.65
3	4	-802.61	2014.79	30.65	2107.62	200.62	10844.53

Combination No. 15

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.08	2072.01	30.72	1837.88	-180.94	-10992.27
3	4	-832.49	2328.29	30.36	1823.89	187.24	10692.45


Combination No. 16

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.20	2032.96	31.04	2120.22	-195.58	-10485.07
3	4	-802.60	2226.08	30.05	2138.40	172.60	10336.91

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.90	2159.54	39.32	2680.75	-237.38	-11035.00
3	4	-855.54	2229.46	38.57	2677.60	232.05	11253.92

Combination No. 17

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.19	2144.45	39.08	1985.82	-226.52	-10902.77
3	4	-846.83	2209.43	38.80	1958.82	242.91	11134.71

Combination No. 18

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	864.58	2214.56	39.09	2202.81	-227.06	-11447.36
3	4	-884.22	2282.81	38.79	2176.99	242.37	11669.56

Combination No. 19

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	743.13	1966.74	18.66	1322.08	-119.14	-9791.65
3	4	-752.37	2103.27	17.99	1336.92	101.77	9669.40

Combination No. 20

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.89	1985.32	18.42	1155.21	-108.05	-10070.43
3	4	-768.13	2169.43	18.23	1145.68	112.86	9845.45

Combination No. 21

Group Id: STR GP 1 Name: STRENGTH GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.89	1985.32	18.42	1155.21	-108.05	-10070.43
3	4	-768.13	2169.43	18.23	1145.68	112.86	9845.45

Combination No. 22

Group Id: STR GP 1 Name: STRENGTH GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	864.13	2298.75	39.16	2199.26	-230.29	-11206.52
3	4	-883.77	2198.62	38.72	2180.54	239.14	11897.41

Combination No. 23

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.75	2115.55	39.34	2576.45	-238.58	-11169.61
3	4	-866.39	2332.86	38.54	2575.94	230.85	11057.20

Combination No. 24

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.98	2242.39	39.31	2083.07	-237.03	-11018.84
3	4	-866.62	2183.24	38.58	2079.15	232.40	11590.09

Combination No. 25

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.44	2420.06	39.15	2380.14	-229.80	-10996.52
3	4	-883.08	2147.16	38.73	2360.33	239.64	12087.39

Combination No. 26

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.11	2334.18	39.32	2082.60	-237.46	-10529.91
3	4	-847.75	2091.44	38.57	2079.62	231.98	11534.26


Combination No. 27

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	865.00	2203.51	39.19	2481.18	-231.50	-11498.83

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-884.65	2304.31	38.70	2465.25	237.87	11630.28

Combination No. 28

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.71	2198.03	39.34	2576.69	-238.36	-11222.75
3	4	-870.36	2250.38	38.55	2575.70	231.07	11493.87

Combination No. 29

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	759.02	2192.18	18.44	1154.16	-109.00	-9621.95
3	4	-768.26	1962.58	18.21	1146.74	111.90	10297.80

Combination No. 30

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	740.16	2113.10	18.65	990.12	-118.52	-9411.30
3	4	-749.40	1940.37	18.00	1003.60	102.39	9963.94

Combination No. 31

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	866.85	2293.43	39.09	2486.31	-226.89	-11278.36
3	4	-886.49	2214.39	38.80	2460.12	242.54	11904.04


Combination No. 32

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.27	2239.94	39.09	2692.37	-226.80	-10805.82
3	4	-854.92	2149.07	38.80	2665.98	242.63	11465.13

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 21
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		Designed CAM
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
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Combination No. 33									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.46	2220.16	39.30	1974.87	-236.49	-10684.84
3	4	-846.10	2133.72	38.59	1969.77	232.94	11331.69

Combination No. 34									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.82	2345.39	30.69	1895.63	-179.45	-10329.87
3	4	-832.22	2053.43	30.40	1878.37	188.73	11347.16

Combination No. 35									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	880.19	2341.32	39.20	2306.16	-232.01	-11423.37
3	4	-899.83	2227.79	38.69	2291.22	237.42	12144.17

Combination No. 36									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	883.38	2177.34	-39.25	-2076.79	234.47	-12070.43
3	4	-863.74	2391.76	-38.63	-2067.24	-234.96	11022.25


Combination No. 37									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.14	2157.07	-40.15	-2446.56	244.77	-11209.74
3	4	-818.11	2207.94	-39.27	-2449.35	-233.87	10571.47

Combination No. 38									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.45	2172.03	-39.87	-1740.17	231.72	-11336.40
3	4	-826.42	2228.79	-39.55	-1714.31	-246.91	10684.56

Combination No. 39									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	902.33	2344.02	-39.24	-2077.63	233.70	-11920.60
3	4	-882.69	2225.09	-38.65	-2066.40	-235.73	11719.07

Combination No. 40									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.28	2117.03	-38.96	-1711.42	220.70	-11403.74
3	4	-822.64	2271.98	-38.93	-1671.64	-248.73	10502.43

Combination No. 41									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.20	2105.27	-39.51	-2390.18	246.28	-11272.65
3	4	-814.56	2248.61	-38.38	-2406.58	223.15	10400.49

Combination No. 42									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	900.62	2251.39	-39.25	-2077.16	234.13	-12151.28
3	4	-880.98	2317.72	-38.64	-2066.87	-235.30	11439.11

Combination No. 43									
Group Id: STR GP 1 Name: STRENGTH GROUP 1									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	883.46	2435.82	-39.23	-2078.09	233.28	-11431.68

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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File Name: Pier 12 Straddle.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-863.82	2133.29	-38.66	-2065.94	-236.15	11663.24

Combination No. 44

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.46	2266.06	-39.83	-2462.46	230.29	-11000.64
3	4	-821.43	2098.95	-39.58	-2433.46	-248.34	10876.35

Combination No. 45

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	849.87	2287.75	-40.20	-1723.30	247.09	-11113.52
3	4	-829.85	2113.07	-39.22	-1731.19	-231.55	11006.35

Combination No. 46

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.29	2316.02	-39.53	-1682.49	247.05	-10911.37
3	4	-822.65	2072.98	-38.36	-1700.57	-222.38	10995.24

Combination No. 47

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.33	2292.67	-38.97	-2417.43	221.47	-10810.35
3	4	-814.69	2061.21	-38.91	-2379.33	-247.96	10866.44


Combination No. 48

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.50	2357.84	-30.77	-1601.82	183.02	-10670.62
3	4	-817.09	2042.46	-30.32	-1592.41	-185.16	11014.33

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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File Name: Pier 12 Straddle.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.56	2255.62	-31.08	-1287.32	197.67	-10314.63
3	4	-787.16	2003.42	-30.00	-1310.08	-170.51	10506.23

Combination No. 49

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.56	2255.62	-31.08	-1287.32	197.67	-10314.63
3	4	-787.16	2003.42	-30.00	-1310.08	-170.51	10506.23

Combination No. 50

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.44	2083.38	-30.80	-1600.43	184.29	-11329.25
3	4	-817.04	2316.92	-30.29	-1593.80	-183.89	10354.14

Combination No. 51

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.55	2044.33	-30.48	-1318.09	169.64	-10822.05
3	4	-787.15	2214.71	-30.61	-1279.30	-198.54	9998.61

Combination No. 52

Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	855.48	2174.04	-39.12	-1703.09	228.28	-11464.65
3	4	-835.84	2214.96	-38.77	-1679.97	-241.15	10822.58

Combination No. 53

Group Id: STR GP 1 Name: STRENGTH GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.77	2158.95	-39.35	-2398.03	239.14	-11332.42
3	4	-827.13	2194.93	-38.53	-2398.74	-230.29	10703.38

Combination No. 54

Group Id: STR GP 1 Name: STRENGTH GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	884.16	2229.06	-39.34	-2181.04	238.60	-11877.01
3	4	-864.52	2268.31	-38.54	-2180.57	-230.83	11238.23

Combination No. 55

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	752.34	1973.56	-18.25	-740.91	100.00	-9993.84
3	4	-743.10	2096.44	-18.40	-713.70	-120.91	9466.42

Combination No. 56

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	768.10	1992.15	-18.49	-907.77	111.09	-10272.62
3	4	-758.86	2162.61	-18.16	-904.94	-109.82	9642.47

Combination No. 57

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	883.71	2313.25	-39.27	-2184.58	235.37	-11636.18
3	4	-864.07	2184.12	-38.61	-2177.03	-224.06	11466.08

Combination No. 58

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	853.33	2130.05	-39.09	-1807.40	227.08	-11599.26
3	4	-833.69	2318.36	-38.79	-1781.62	-242.35	10625.86


Combination No. 59

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	866.57	2256.89	-39.13	-2300.78	228.63	-11448.49

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-846.92	2168.74	-38.76	-2278.41	-240.80	11158.76

Combination No. 60

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	883.02	2434.56	-39.28	-2003.71	235.87	-11426.17
3	4	-863.38	2132.66	-38.60	-1997.24	-233.56	11656.06

Combination No. 61

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.69	2348.68	-39.12	-2301.24	228.21	-10959.56
3	4	-828.05	2076.94	-38.77	-2277.95	-241.22	11102.92

Combination No. 62

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	884.59	2218.01	-39.25	-1902.67	234.10	-11928.48
3	4	-864.94	2289.81	-38.64	-1892.32	-235.33	11198.95

Combination No. 63

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	870.30	2212.53	-39.10	-1807.15	227.30	-11652.40
3	4	-850.65	2235.88	-38.79	-1781.87	-242.13	11062.54


Combination No. 64

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	768.24	2199.00	-18.47	-908.83	110.13	-9824.14
3	4	-758.99	1955.76	-18.18	-903.88	-110.78	10094.83

Units: US (English)

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Combination No. 65
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.37	2119.92	-18.26	-1072.87	100.61	-9613.49
3	4	-740.13	1933.55	-18.39	-1047.02	-120.29	9760.96

Combination No. 66
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	886.43	2307.93	-39.35	-1897.53	238.78	-11708.01
3	4	-866.79	2199.89	-38.54	-1897.45	-230.66	11472.71

Combination No. 67
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	854.86	2254.44	-39.35	-1691.47	238.87	-11235.47
3	4	-835.22	2134.57	-38.54	-1691.59	-230.57	11033.80

Combination No. 68
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.04	2234.66	-39.14	-2408.97	229.17	-11114.49
3	4	-826.40	2119.22	-38.75	-2387.80	-240.26	10900.35


Combination No. 69
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.18	2356.76	-30.83	-1542.68	185.78	-10666.85
3	4	-816.77	2042.06	-30.26	-1539.33	-182.40	11008.85

Combination No. 70
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	899.77	2355.82	-39.24	-2077.69	233.65	-11853.02
3	4	-880.13	2213.29	-38.65	-2066.34	-235.78	11712.84

Combination No. 71
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.24	1628.61	39.19	2270.40	-231.49	-9133.08
3	4	-688.89	1880.30	38.70	2254.30	237.94	8939.82

Combination No. 72
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.62	1608.04	39.83	1986.58	-230.32	-8263.97
3	4	-643.65	1696.76	39.58	1957.64	248.31	8497.49

Combination No. 73
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.92	1623.00	40.12	2692.97	-243.36	-8390.63
3	4	-651.95	1717.61	39.30	2692.68	235.27	8610.58

Combination No. 74
 Group id: STR GP 1 Name: STRENGTH GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	688.19	1795.28	39.21	2269.56	-232.25	-8983.26
3	4	-707.84	1713.62	38.68	2255.14	237.18	9636.64

Combination No. 75
 Group id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.14	1568.29	39.49	2635.76	-245.26	-8466.39

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-647.78	1760.51	38.40	2649.91	224.17	8419.99

Combination No. 76

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.07	1556.53	38.93	1957.00	-219.67	-8335.30
3	4	-639.71	1737.15	38.95	1914.96	249.76	8318.05

Combination No. 77

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	686.49	1702.65	39.20	2270.02	-231.83	-9213.94
3	4	-706.13	1806.25	38.69	2254.68	237.60	9356.68

Combination No. 78

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.32	1887.08	39.22	2269.09	-232.68	-8494.33
3	4	-688.96	1621.83	38.67	2255.61	236.75	9580.81

Combination No. 79

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.94	1717.04	40.15	1970.69	-244.79	-8054.86
3	4	-646.96	1587.77	39.27	1973.53	233.84	8802.37


Combination No. 80

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.35	1738.73	39.78	2709.85	-228.00	-8167.75
3	4	-655.38	1601.88	39.63	2675.80	250.64	8932.37

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Combination No. 81

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.16	1767.28	38.92	2664.70	-218.91	-7974.03
3	4	-647.80	1561.52	38.97	2620.97	250.52	8912.80

Combination No. 82

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.19	1743.93	39.47	1929.75	-244.49	-7873.00
3	4	-639.84	1549.75	38.42	1942.21	224.94	8784.00

Combination No. 83

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.58	1812.22	30.76	1799.83	-182.50	-7825.95
3	4	-637.99	1527.87	30.33	1789.26	185.69	8838.86

Combination No. 84

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.65	1710.01	30.44	2114.33	-167.85	-7469.96
3	4	-608.05	1488.82	30.65	2071.60	200.33	8330.76

Combination No. 85

Group Id: STR GP 1 Name: STRENGTH GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.53	1537.77	30.73	1801.22	-181.23	-8484.57
3	4	-637.93	1802.32	30.36	1787.87	186.95	8178.68

Combination No. 86

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.64	1498.72	31.05	2083.55	-195.88	-7977.37
3	4	-608.05	1700.12	30.04	2102.38	172.31	7823.14

Combination No. 87

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.34	1625.30	39.32	2644.09	-237.67	-8527.30
3	4	-660.98	1703.50	38.56	2641.58	231.76	8740.15

Combination No. 88

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.63	1610.21	39.09	1949.16	-226.82	-8395.07
3	4	-652.27	1683.47	38.80	1922.80	242.61	8620.95

Combination No. 89

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.03	1680.32	39.10	2166.15	-227.35	-8939.66
3	4	-689.67	1756.84	38.79	2140.97	242.08	9155.79

Combination No. 90

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	548.57	1432.50	18.67	1285.42	-119.43	-7283.96
3	4	-557.82	1577.30	17.98	1300.90	101.48	7155.63


Combination No. 91

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	564.33	1451.09	18.43	1118.55	-108.34	-7562.73

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 32	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-573.57	1643.47	18.22	1109.66	112.57	7331.68

Combination No. 92

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.58	1764.51	39.17	2162.60	-230.58	-8698.83
3	4	-689.22	1672.65	38.72	2144.52	238.85	9383.64

Combination No. 93

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.19	1581.32	39.35	2539.79	-238.88	-8661.91
3	4	-658.83	1806.89	38.54	2539.92	230.56	8543.43

Combination No. 94

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.43	1708.15	39.32	2046.41	-237.32	-8511.14
3	4	-672.07	1657.27	38.57	2043.13	232.11	9076.32

Combination No. 95

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	668.88	1885.82	39.16	2343.48	-230.09	-8488.82
3	4	-688.52	1621.20	38.73	2324.31	239.34	9573.62


Combination No. 96

Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.55	1799.94	39.32	2045.94	-237.75	-8022.21
3	4	-653.20	1565.48	38.56	2043.60	231.68	9020.49

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	33
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

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 Group id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 97

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.45	1669.27	39.20	2444.52	-231.85	-8991.13
3	4	-690.09	1778.34	38.69	2429.23	237.58	9116.51

Combination No. 98

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.16	1663.79	39.34	2540.03	-238.65	-8715.05
3	4	-675.80	1724.41	38.54	2539.68	230.78	8980.10

Combination No. 99

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	564.46	1657.94	18.45	1117.50	-109.30	-7114.25
3	4	-573.71	1436.61	18.20	1110.72	111.61	7784.04

Combination No. 100


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	545.60	1578.86	18.66	953.46	-118.81	-6903.60
3	4	-554.84	1414.41	18.00	967.58	102.09	7450.17

Combination No. 101

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	672.29	1759.19	39.10	2449.65	-227.18	-8770.66
3	4	-691.94	1688.42	38.79	2424.10	242.25	9390.27

Combination No. 102

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.45	1669.27	39.20	2444.52	-231.85	-8991.13
3	4	-690.09	1778.34	38.69	2429.23	237.58	9116.51

		Sheet #	34
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

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 Group id: STR GP 1 Name: STRENGTH GROUP 1

Combination No. 103

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.72	1705.70	39.09	2655.71	-227.09	-8298.13
3	4	-660.36	1623.10	38.79	2629.96	242.34	8951.37

Combination No. 104

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.90	1685.92	39.30	1938.21	-236.78	-8177.14
3	4	-651.55	1607.75	38.58	1933.75	232.65	8817.92

Combination No. 105

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.26	1811.15	30.70	1858.97	-179.74	-7822.17
3	4	-637.67	1527.46	30.39	1842.35	188.44	8833.39

Combination No. 106


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	685.64	1807.08	39.21	2269.50	-232.31	-8915.68
3	4	-705.28	1701.83	38.68	2255.20	237.12	9630.40

Combination No. 107

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	688.83	1643.11	-39.25	-2113.45	234.18	-9562.73
3	4	-669.18	1865.80	-38.64	-2103.26	-235.25	8508.48

Combination No. 108

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.59	1622.83	-40.14	-2483.22	244.47	-8702.04
3	4	-643.59	1622.83	-40.14	-2483.22	244.47	-8702.04

		Sheet # 35	
		Job # 59219	
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		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-623.56	1681.98	-39.27	-2485.37	-234.16	8057.70

Combination No. 108
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.89	1637.79	-39.86	-1776.83	231.43	-8828.70
3	4	-631.86	1702.82	-39.55	-1750.33	-247.20	8170.79

Combination No. 109
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	707.78	1809.78	-39.23	-2114.29	233.41	-9412.91
3	4	-688.13	1699.12	-38.66	-2102.42	-236.02	9205.30

Combination No. 110
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.72	1582.79	-38.95	-1748.08	220.41	-8896.04
3	4	-628.08	1746.01	-38.94	-1707.66	-249.02	7988.66

Combination No. 111
Group Id: STR GP 1 Name: STRENGTH GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.65	1571.03	-39.50	-2426.84	245.99	-8764.95
3	4	-620.01	1722.65	-38.38	-2442.60	-223.44	7886.72

Combination No. 112
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	706.07	1717.15	-39.24	-2113.82	233.84	-9643.59
3	4	-686.43	1791.75	-38.65	-2102.89	-235.60	8925.34

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 36	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 113
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	688.90	1901.58	-39.22	-2114.75	232.99	-8923.98
3	4	-669.26	1607.33	-38.66	-2101.96	-236.44	9149.47

Combination No. 114
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.90	1731.82	-39.83	-2499.12	230.00	-8492.94
3	4	-626.88	1572.98	-39.59	-2469.48	-248.63	8362.58

Combination No. 115
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.32	1753.51	-40.19	-1759.96	246.80	-8605.82
3	4	-635.29	1587.10	-39.22	-1767.21	-231.84	8492.58

Combination No. 116
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.74	1781.78	-39.52	-1719.15	246.76	-8403.68
3	4	-628.10	1547.02	-38.37	-1736.59	-222.67	8481.47


Combination No. 117
Group Id: STR GP 1 Name: STRENGTH GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.78	1758.43	-38.97	-2454.10	221.18	-8302.65
3	4	-620.13	1535.25	-38.92	-2415.35	-248.25	8352.67

Combination No. 118
Group Id: STR GP 1 Name: STRENGTH GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 37	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.94	1823.60	-30.76	-1638.48	182.73	-8162.93
3	4	-622.53	1516.50	-30.33	-1628.43	-185.45	8500.56

Combination No. 119

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 119

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.01	1721.39	-31.08	-1323.98	197.38	-7806.94
3	4	-592.60	1477.45	-30.01	-1346.10	-170.80	7992.46

Combination No. 120

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 120

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.89	1549.14	-30.79	-1637.09	184.00	-8821.55
3	4	-622.48	1790.95	-30.30	-1629.82	-184.18	7840.38

Combination No. 121

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 121

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.00	1510.09	-30.47	-1354.75	169.35	-8314.35
3	4	-592.59	1688.74	-30.61	-1315.22	-198.83	7484.84

Combination No. 122

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 122

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.92	1639.80	-39.11	-1739.76	227.99	-8956.95
3	4	-641.28	1689.00	-38.77	-1715.98	-241.44	8308.81

Combination No. 123


Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 123

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.21	1624.71	-39.35	-2434.69	238.85	-8824.72

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 38	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-632.57	1668.97	-38.54	-2434.76	-230.58	8189.61

Combination No. 124

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 124

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	689.61	1694.82	-39.34	-2217.70	238.31	-9369.31
3	4	-669.97	1742.34	-38.55	-2216.59	-231.12	8724.46

Combination No. 125

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 125

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	557.79	1439.32	-18.24	-777.57	99.70	-7486.15
3	4	-548.55	1570.47	-18.41	-749.72	-121.21	6952.65

Combination No. 126

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 126

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.55	1457.91	-18.48	-944.44	110.80	-7764.92
3	4	-564.30	1636.64	-18.17	-940.95	-110.11	7128.70

Combination No. 127

Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 127

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	689.16	1779.01	-39.27	-2221.24	235.08	-9128.48
3	4	-669.52	1658.15	-38.62	-2213.05	-234.35	8952.31

Combination No. 128


Group Id: STR GP 1 Name: STRENGTH GROUP I

Combination No. 128

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.77	1595.82	-39.09	-1844.06	226.79	-9091.56
3	4	-639.13	1792.39	-38.80	-1817.64	-242.64	8112.09

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	39
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 129
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	672.01	1722.65	-39.12	-2337.44	228.34	-8940.79
3	4	-652.37	1642.77	-38.76	-2314.43	-241.09	8644.99

Combination No. 130
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	688.46	1900.32	-39.28	-2040.37	235.58	-8918.47
3	4	-668.82	1606.70	-38.61	-2033.26	-233.85	9142.29

Combination No. 131
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.14	1814.44	-39.11	-2337.90	227.92	-8451.86
3	4	-633.50	1550.98	-38.77	-2313.97	-241.51	8589.15

Combination No. 132
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	690.03	1683.77	-39.24	-1939.33	233.81	-9420.79
3	4	-670.39	1763.84	-38.65	-1928.33	-235.62	8685.18


Combination No. 133
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.74	1678.29	-39.09	-1843.81	227.01	-9144.70
3	4	-656.10	1709.91	-38.79	-1817.89	-242.42	8548.77

Combination No. 134
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.68	1664.76	-18.46	-945.49	109.84	-7316.44
3	4	-564.44	1429.79	-18.19	-939.90	-111.07	7581.06

Combination No. 135
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.82	1585.69	-18.26	-1109.53	100.32	-7105.79
3	4	-545.57	1407.58	-18.40	-1083.03	-120.59	7247.19

Combination No. 136
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	691.88	1773.69	-39.34	-1934.20	238.48	-9200.31
3	4	-672.23	1673.92	-38.55	-1933.47	-230.95	8958.94

Combination No. 137
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.30	1720.20	-39.34	-1728.13	238.57	-8727.78
3	4	-640.66	1608.60	-38.54	-1727.61	-230.86	8520.03

Combination No. 138
 Group Id: STR GP 1 Name: STRENGTH GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.49	1700.42	-39.13	-2445.63	228.88	-8606.79
3	4	-631.85	1593.25	-38.75	-2423.82	-240.55	8386.58

Combination No. 139
 Group Id: STR GP 1 Name: STRENGTH GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.62	1822.53	-30.82	-1579.34	185.48	-8159.15

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 41	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-622.21	1516.09	-30.27	-1575.35	-182.70	8495.08

Combination No. 140

Group Id: STR GP 1 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	705.22	1821.58	-39.23	-2114.35	233.36	-9345.33
3	4	-685.58	1687.33	-38.66	-2102.36	-236.07	9199.07

Combination No. 141

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	715.54	1865.39	17.81	807.00	-80.77	-9629.24
3	4	-594.44	1695.71	12.73	732.52	99.34	7077.38

Combination No. 142

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	757.42	1937.25	30.26	1227.41	-117.69	-10251.59
3	4	-645.83	1849.20	17.51	1051.14	157.11	7790.24

Combination No. 143

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.23	1934.95	44.96	1725.52	-164.72	-10164.71
3	4	-649.19	1851.49	24.19	1441.06	227.16	7870.56


Combination No. 144

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	740.34	1928.94	55.12	2054.83	-192.66	-9900.17
3	4	-658.96	1857.51	28.11	1686.83	272.80	8110.23

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 42	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Checked	
		Date	

Combination No. 145

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	715.99	1917.37	58.85	2163.69	-199.10	-9391.00
3	4	-678.75	1869.07	29.08	1758.94	286.95	8583.11

Combination No. 146

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	701.23	1911.41	60.97	2271.44	-216.81	-9096.21
3	4	-688.69	1875.03	32.57	1884.71	300.88	8839.38

Combination No. 147

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.14	1950.59	-17.86	-545.13	82.85	-8282.87
3	4	-795.24	2061.19	-12.68	-475.24	-97.25	10878.12

Combination No. 148

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.26	1878.74	-30.30	-965.55	119.77	-7660.52
3	4	-743.86	1907.71	-17.46	-793.86	-155.02	10165.26

Combination No. 149

Group Id: STR GP 3 Name: STRENGTH GROUP III


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.45	1881.03	-45.01	-1463.66	166.81	-7747.41
3	4	-740.50	1905.41	-24.14	-1183.78	-225.08	10084.93

Combination No. 150

Group Id: STR GP 3 Name: STRENGTH GROUP III

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 43	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.35	1887.05	-55.16	-1792.97	194.74	-8011.95
3	4	-730.72	1899.39	-28.07	-1429.55	-270.72	9845.27

Combination No. 151

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	673.70	1898.61	-58.89	-1901.82	201.18	-8521.11
3	4	-710.93	1887.83	-29.04	-1501.66	-284.87	9372.38

Combination No. 152

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	688.46	1904.57	-61.02	-2009.57	218.89	-8815.91
3	4	-700.99	1881.87	-32.52	-1627.43	-298.79	9116.12

Combination No. 153

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	520.98	1331.16	17.82	770.34	-81.06	-7121.54
3	4	-399.89	1169.75	12.72	696.50	99.04	4563.61

Combination No. 154

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	562.86	1403.01	30.26	1190.75	-117.98	-7743.90
3	4	-451.27	1323.23	17.50	1015.12	156.82	5276.47


Combination No. 155

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	558.67	1400.71	44.97	1688.86	-165.02	-7657.01

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 44	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-454.63	1325.53	24.18	1405.04	226.87	5356.79

Combination No. 156

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	545.78	1394.70	55.12	2018.17	-192.95	-7392.47
3	4	-464.41	1331.54	28.11	1650.82	272.51	5596.46

Combination No. 157

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	521.43	1383.14	58.85	2127.03	-199.39	-6883.31
3	4	-484.19	1343.10	29.08	1722.92	286.66	6069.34

Combination No. 158

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	506.67	1377.17	60.98	2234.77	-217.10	-6588.51
3	4	-494.14	1349.07	32.56	1848.69	300.58	6325.61

Combination No. 159

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	479.59	1416.35	-17.85	-581.79	82.56	-5775.18
3	4	-600.69	1535.22	-12.69	-511.26	-97.54	8364.35


Combination No. 160

Group Id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	437.71	1344.50	-30.30	-1002.21	1119.48	-5152.82
3	4	-549.30	1381.74	-17.47	-829.88	-155.32	7651.49

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed CAM
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File Name: Pier 12 Straddle.rcp		

Combination No. 161
Group id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	441.90	1346.80	-45.00	-1500.32	166.52	-5239.71
3	4	-545.94	1379.44	-24.15	-1219.80	-225.37	7571.16

Combination No. 162
Group id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	454.79	1352.81	-55.15	-1829.63	194.45	-5504.25
3	4	-536.17	1373.43	-28.08	-1465.57	-271.01	7331.50

Combination No. 163
Group id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	479.14	1364.37	-58.89	-1938.48	200.89	-6013.41
3	4	-516.38	1361.87	-29.05	-1537.67	-285.16	6858.61

Combination No. 164
Group id: STR GP 3 Name: STRENGTH GROUP III

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	493.90	1370.34	-61.01	-2046.23	218.60	-6308.21
3	4	-506.44	1355.90	-32.53	-1663.45	-299.08	6602.35


Combination No. 165
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.46	2097.14	36.94	-2072.21	-211.10	-11359.21
3	4	-805.24	2228.70	35.09	-2037.60	221.91	10204.46

Combination No. 166
Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 46
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Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed CAM
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Phone: 1-800-778-4277		
File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.27	2081.27	37.44	1853.27	-210.20	-10688.75
3	4	-770.34	2087.11	35.77	1808.75	229.91	9863.24

Combination No. 167
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.68	2092.81	37.65	2398.20	-220.26	-10786.45
3	4	-776.75	2103.19	35.56	2375.78	219.85	9950.48

Combination No. 168
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	852.08	2225.72	36.95	2071.56	-211.69	-11243.63
3	4	-819.86	2100.11	35.08	2038.25	221.32	10742.01

Combination No. 169
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.75	2050.61	37.17	2354.06	-221.72	-10844.90
3	4	-773.53	2136.29	34.86	2342.78	211.28	9803.46

Combination No. 170
Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.53	2041.54	36.74	1830.45	-201.99	-10743.77
3	4	-767.31	2118.26	35.29	1775.82	231.02	9724.82

Combination No. 171
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.77	2154.26	36.94	2071.92	-211.37	-11421.58

Units: US (English)

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-818.54	2171.57	35.09	2037.89	221.64	10526.04

Combination No. 172
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.52	2296.53	36.96	2071.21	-212.02	-10866.46
3	4	-805.30	2029.30	35.07	2038.61	220.99	10698.94

Combination No. 173
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.83	2165.35	37.68	1841.01	-221.37	-10527.44
3	4	-772.90	2003.03	35.53	1821.01	218.74	10098.44

Combination No. 174
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	811.32	2182.09	37.40	2411.22	-208.41	-10614.52
3	4	-779.39	2013.92	35.81	2362.76	231.70	10198.72

Combination No. 175
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.77	2204.11	36.73	2376.39	-201.40	-10465.08
3	4	-773.54	1982.78	35.30	2320.46	231.61	10183.63

Combination No. 176
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.62	2186.10	37.16	1809.43	-221.13	-10387.14
3	4	-767.40	1973.70	34.88	1796.85	211.88	10084.27

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 48	
		Job # 59219	
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Combination No. 177
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.47	2238.78	30.43	1709.20	-173.31	-10350.85
3	4	-765.98	1956.82	28.64	1678.86	181.59	10126.58

Combination No. 178
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	778.37	2159.94	30.19	1951.82	-162.01	-10076.22
3	4	-742.88	1926.70	28.88	1896.66	192.89	9734.62

Combination No. 179
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.43	2027.06	30.41	1710.28	-172.33	-10858.92
3	4	-765.94	2168.54	28.66	1677.79	182.57	9617.30

Combination No. 180
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	778.37	1996.94	30.66	1928.08	-183.63	-10467.66
3	4	-742.88	2089.70	28.42	1920.40	171.27	9343.03


Combination No. 181
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.94	2094.59	37.04	2360.49	-215.87	-10891.89
3	4	-783.72	2092.31	34.99	2336.36	217.13	10050.44

Combination No. 182
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 49	
		Job # 59219	
		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.22	2082.95	36.86	1824.40	-207.50	-10789.89
3	4	-777.00	2076.85	35.17	1781.87	225.51	9958.48

Combination No. 183

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.07	2137.03	36.87	1991.79	-207.91	-11209.99
3	4	-805.84	2133.46	35.16	1950.18	225.09	10371.07

Combination No. 184

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	744.38	1945.85	21.11	1312.37	-124.66	-9932.74
3	4	-704.13	1994.95	19.11	1302.12	116.63	8828.09

Combination No. 185

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	756.53	1960.19	20.92	1183.65	-116.10	-10147.80
3	4	-716.29	2046.00	19.30	1154.59	125.19	8943.91

Combination No. 186

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.72	2201.98	36.92	1989.06	-210.40	-11024.21
3	4	-805.50	2068.51	35.11	1952.91	222.60	10546.84


Combination No. 187

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.28	2060.66	37.06	2280.03	-216.80	-10995.73

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
		Designed CAM	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-782.06	2172.07	34.97	2257.94	216.21	9898.68

Combination No. 188

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.49	2158.50	37.04	1899.42	-215.60	-10879.42
3	4	-792.27	2056.65	35.00	1874.70	217.40	10309.77

Combination No. 189

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.18	2295.56	36.92	2128.59	-210.02	-10862.20
3	4	-804.96	2028.82	35.12	2091.61	222.99	10693.40

Combination No. 190

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.93	2229.31	37.04	1899.06	-215.93	-10502.25
3	4	-777.71	1985.83	34.99	1875.06	217.08	10266.70

Combination No. 191

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.39	2128.51	36.94	2206.53	-211.39	-11249.70
3	4	-806.17	2150.04	35.09	2172.55	221.62	10340.77


Combination No. 192

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.37	2124.28	37.06	2280.22	-216.63	-11036.72
3	4	-795.15	2108.44	34.97	2257.75	216.38	10235.54

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	51
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

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 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 193

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	756.63	2119.76	20.94	1182.83	-116.84	-9801.82
3	4	-716.39	1886.43	19.28	1155.41	124.45	9312.86

Combination No. 194

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	742.08	2058.76	21.10	1056.29	-124.18	9639.32
3	4	-701.84	1869.29	19.12	1044.99	117.11	9055.31

Combination No. 195

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.82	2197.87	36.87	2210.49	-207.78	-11079.62
3	4	-807.59	2080.68	35.16	2168.59	225.23	10551.96

Combination No. 196

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.46	2156.61	36.87	2369.45	-207.71	-10715.10
3	4	-783.24	2030.29	35.17	2327.39	225.30	10213.37

Combination No. 197

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.66	2141.35	37.03	1815.96	-215.19	-10621.77
3	4	-776.44	2018.45	35.00	1790.32	217.82	10110.43


Combination No. 198

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
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Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	52
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.22	2237.96	30.39	1754.82	-171.18	-10347.93
3	4	-765.73	1956.51	28.68	1719.81	183.72	10122.36

Combination No. 199

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.11	2234.81	36.95	2071.52	-211.73	-11191.49
3	4	-817.89	2091.02	35.08	2038.30	221.27	10737.20

Combination No. 200

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.47	2116.96	41.07	2217.01	-225.08	-11516.02
3	4	-820.89	2273.26	37.03	2153.14	241.89	10429.21

Combination No. 201

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.28	2101.10	41.57	1998.07	-224.18	-10845.56
3	4	-785.99	2131.67	37.71	1924.29	249.89	10087.99

Combination No. 202

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.68	2112.64	41.79	2543.00	-234.24	-10943.27
3	4	-792.39	2147.75	37.49	2491.32	239.83	10175.23


Combination No. 203

Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.09	2245.54	41.08	2216.37	-225.67	-11400.45

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	53
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-835.50	2144.68	37.01	2153.79	241.30	10966.76

Combination No. 204
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.76	2070.43	41.30	2498.87	-235.70	-11001.72
3	4	-789.18	2180.85	36.80	2458.33	231.27	10028.21

Combination No. 205
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.54	2061.36	40.88	1975.25	-215.97	-10900.59
3	4	-782.95	2162.82	37.22	1891.37	251.00	9949.57

Combination No. 206
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.77	2174.08	41.08	2216.72	-225.35	-11578.40
3	4	-834.19	2216.13	37.02	2153.43	241.63	10750.79

Combination No. 207
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.53	2316.35	41.09	2216.01	-226.00	-11023.27
3	4	-820.95	2073.86	37.01	2154.15	240.97	10923.69

Combination No. 208
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.84	2185.17	41.81	1985.81	-235.35	-10684.26
3	4	-788.55	2047.59	37.47	1936.55	238.73	10233.19

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	54
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 209
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.33	2201.91	41.53	2556.02	-222.39	-10771.34
3	4	-795.04	2058.48	37.75	2478.30	251.68	10423.47

Combination No. 210
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.78	2223.94	40.86	2521.19	-215.38	-10621.90
3	4	-789.19	2027.34	37.24	2436.00	251.60	10408.38

Combination No. 211
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.63	2205.92	41.29	1954.23	-235.11	-10543.96
3	4	-783.05	2018.26	36.81	1912.39	231.86	10309.01

Combination No. 212
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.48	2258.61	34.57	1854.00	-187.29	-10507.66
3	4	-781.62	2001.38	30.57	1794.40	201.58	10351.33


Combination No. 213
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.38	2179.76	34.32	2096.62	-175.99	-10233.04
3	4	-758.53	1971.26	30.82	2012.20	212.87	9959.37

Combination No. 214
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 55	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.43	2046.88	34.55	1855.08	-186.31	-11015.74
3	4	-781.58	2213.10	30.59	1793.33	202.55	9842.05

Combination No. 215

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.38	2016.76	41.17	2072.88	-197.61	-10624.48
3	4	-758.52	2134.26	30.35	2035.95	191.26	9567.78

Combination No. 216

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.95	2114.41	41.17	2505.29	-229.85	-11048.71
3	4	-799.36	2136.87	36.92	2451.90	237.12	10275.18

Combination No. 217

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.23	2102.77	40.99	1969.20	-221.48	-10946.70
3	4	-792.64	2121.41	37.11	1897.42	245.49	10183.23

Combination No. 218

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	849.08	2156.85	41.00	2136.59	-221.89	-11366.81
3	4	-821.49	2178.02	37.10	2065.72	245.08	10595.82


Combination No. 219

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	755.38	1965.67	25.24	1457.17	-138.64	-10089.56

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 56	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-719.78	2039.51	21.05	1417.66	136.62	9052.84

Combination No. 220

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	767.54	1980.01	25.06	1328.45	-130.08	-10304.61
3	4	-731.93	2090.56	21.23	1270.14	145.17	9188.65

Combination No. 221

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.73	2221.80	41.06	2133.86	-224.38	-11181.03
3	4	-821.14	2113.07	37.04	2068.45	242.59	10771.59

Combination No. 222

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.29	2080.48	41.19	2424.83	-230.78	-11152.55
3	4	-797.70	2216.63	36.90	2373.48	236.19	10123.43

Combination No. 223

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.50	2178.32	41.17	2044.22	-229.58	-11036.24
3	4	-807.91	2101.21	36.93	1990.24	237.39	10534.52


Combination No. 224

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.19	2315.38	41.05	2273.39	-224.00	-11019.02
3	4	-820.61	2073.38	37.05	2207.15	242.97	10918.15

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	57
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 225
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.94	2249.13	41.18	2043.86	-229.91	-10659.07
3	4	-793.35	2030.39	36.92	1990.60	237.06	10491.45

Combination No. 226
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	849.40	2148.33	41.08	2351.33	-225.37	-11406.52
3	4	-821.81	2194.60	37.02	2288.09	241.61	10565.52

Combination No. 227
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.38	2144.10	41.19	2425.02	-230.61	-11193.54
3	4	-810.79	2153.00	36.91	2373.29	236.36	10460.29

Combination No. 228
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	767.64	2139.58	25.07	1327.63	-130.82	-9958.64
3	4	-732.03	1930.99	21.22	1270.95	144.43	9537.61

Combination No. 229
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.09	2078.58	25.23	1201.09	-138.16	-9796.14
3	4	-717.48	1913.85	21.06	1160.53	137.09	9280.06

Combination No. 230
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.70	2115.87	45.95	2388.18	-242.53	-11478.58
3	4	-833.53	2135.58	37.01	2153.84	241.26	10961.95

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.83	2217.69	41.00	2355.29	-221.76	-11236.44
3	4	-823.24	2125.24	37.10	2284.13	245.21	10776.71

Combination No. 231
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 231

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.47	2176.43	41.00	2514.26	-221.69	-10871.92
3	4	-798.88	2074.85	37.10	2442.94	245.28	10438.12

Combination No. 232
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 232

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.67	2161.17	41.16	1960.76	-229.17	-10778.59
3	4	-792.08	2063.01	36.94	1905.86	237.81	10335.18

Combination No. 233
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 233

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.23	2257.78	34.52	1899.62	-185.16	-10504.75
3	4	-781.37	2001.07	30.62	1835.35	203.70	10347.11


Combination No. 234
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 234

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.12	2254.64	41.09	2216.32	-225.72	-11348.31
3	4	-833.53	2135.58	37.01	2153.84	241.26	10961.95

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-822.42	2274.34	39.60	2293.19	265.97	10464.82

Combination No. 236

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	811.50	2100.01	46.45	2169.23	-241.63	-10808.12
3	4	-787.53	2132.75	40.28	2064.33	273.97	10123.60

Combination No. 237

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.91	2111.55	46.66	2714.16	-251.69	-10905.83
3	4	-793.93	2148.84	40.06	2631.36	263.91	10210.84

Combination No. 238

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.32	2244.46	45.96	2387.53	-243.12	-11363.01
3	4	-837.04	2145.76	39.59	2293.84	265.38	11002.37

Combination No. 239

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.99	2069.34	46.18	2670.03	-253.15	-10964.28
3	4	-790.72	2181.93	39.37	2598.37	255.35	10063.81


Combination No. 240

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.76	2060.28	45.75	2146.41	-233.42	-10863.15
3	4	-784.49	2163.91	39.80	2031.41	275.08	9985.18

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 60	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 241

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	860.00	2173.00	45.95	2387.89	-242.79	-11540.96
3	4	-835.73	2217.22	39.60	2293.48	265.71	10786.40

Combination No. 242

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.76	2315.27	45.97	2387.17	-243.45	-10985.83
3	4	-822.48	2074.94	39.58	2294.20	265.05	10959.30

Combination No. 243

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.06	2184.09	46.69	2156.97	-252.79	-10646.82
3	4	-790.08	2048.67	40.04	2076.59	262.81	10358.79

Combination No. 244

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.55	2200.83	46.41	2727.18	-239.84	-10733.90
3	4	-796.58	2059.56	40.32	2618.34	275.76	10459.08

Combination No. 245

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.00	2222.85	45.74	2692.35	-232.83	-10584.46
3	4	-790.73	2028.42	39.81	2576.05	275.68	10443.98

Combination No. 246

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	61
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.86	2204.84	46.16	2125.39	-252.56	-10506.52
3	4	-784.59	2019.34	39.38	2052.43	255.94	10344.62

Combination No. 247
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.70	2257.52	39.44	2025.17	-204.74	-10470.22
3	4	-783.16	2002.46	33.15	1934.44	225.66	10386.94

Combination No. 248
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.61	2178.67	39.20	2267.78	-193.44	-10195.60
3	4	-760.07	1972.34	33.39	2152.25	236.96	9994.98

Combination No. 249
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.66	2045.80	39.42	2026.24	-203.76	-10978.30
3	4	-783.12	2214.19	33.17	1933.37	226.63	9877.66

Combination No. 250
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.61	2015.68	39.67	2244.04	-215.06	-10587.04
3	4	-760.06	2135.34	32.92	2175.99	215.34	9603.39

Combination No. 251
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.18	2113.33	46.05	2676.45	-247.30	-11071.27

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	62
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-800.90	2137.95	39.50	2591.94	261.20	10310.79

Combination No. 252
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.46	2101.69	45.87	2140.36	-238.93	-10909.26
3	4	-794.18	2122.50	39.68	2037.46	269.57	10218.84

Combination No. 253
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.30	2155.77	45.88	2307.75	-239.34	-11329.37
3	4	-823.03	2179.10	39.67	2205.76	269.16	10631.43

Combination No. 254
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.61	1964.59	30.12	1628.33	-156.09	-10052.12
3	4	-721.31	2040.60	23.62	1557.71	160.70	9088.45

Combination No. 255
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.77	1978.93	29.93	1499.61	-147.53	-10267.17
3	4	-733.47	2091.64	23.81	1410.18	169.25	9224.26

Combination No. 256
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.96	2220.72	45.93	2305.02	-241.83	-11143.59
3	4	-822.68	2114.15	39.62	2208.50	266.67	10807.20

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	63
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 257
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.52	2079.39	46.07	2595.99	-248.23	-11115.11
3	4	-799.24	2217.71	39.48	2513.52	260.27	10159.04

Combination No. 258
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.73	2177.24	46.04	2215.38	-247.03	-10998.80
3	4	-809.45	2102.29	39.50	2130.28	261.47	10570.13

Combination No. 259
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.42	2314.30	45.92	2444.55	-241.45	-10981.58
3	4	-822.14	2074.46	39.62	2347.19	267.05	10953.76

Combination No. 260
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.17	2248.05	46.05	2215.02	-247.36	-10621.63
3	4	-794.89	2031.48	39.50	2130.64	261.14	10527.05


Combination No. 261
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.63	2147.25	45.95	2522.50	-242.81	-11369.08
3	4	-823.35	2195.68	39.59	2428.13	265.69	10601.13

Combination No. 262
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	64
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	836.61	2143.02	46.07	2596.18	-248.06	-11156.10
3	4	-812.33	2154.08	39.48	2513.33	260.44	10495.90

Combination No. 263
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.87	2138.50	29.95	1498.80	-148.27	-9921.20
3	4	-733.57	1932.07	23.79	1410.99	168.51	9573.22

Combination No. 264
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	751.32	2077.50	30.11	1372.25	-155.61	-9758.70
3	4	-719.02	1914.94	23.63	1300.58	161.17	9315.67

Combination No. 265
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	849.05	2216.61	45.88	2526.46	-239.21	-11199.00
3	4	-824.78	2126.32	39.67	2424.17	269.29	10812.32

Combination No. 266
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.70	2175.35	45.87	2685.42	-239.14	-10834.48
3	4	-800.42	2075.93	39.67	2582.98	269.36	10473.73

Combination No. 267
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.90	2160.09	46.04	2131.92	-246.62	-10741.15

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 65	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
File Name: Pier 12 Straddle.rcp		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-793.62	2064.09	39.51	2045.90	261.89	10370.79

Combination No. 268

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.46	2256.70	39.40	2070.79	-202.61	-10467.31
3	4	-782.91	2002.15	33.19	1975.40	227.78	10382.72

Combination No. 269

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	859.35	2253.55	45.96	2387.48	-243.16	-11310.87
3	4	-835.07	2136.66	39.59	2293.88	265.34	10997.56

Combination No. 270

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.87	2113.31	49.10	2493.17	-252.03	-11377.83
3	4	-826.37	2276.91	40.97	2374.24	280.55	10558.57

Combination No. 271

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.67	2097.45	49.60	2274.22	-251.13	-10707.36
3	4	-791.47	2135.32	41.66	2145.39	288.54	10217.35


Combination No. 272

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.08	2108.99	49.82	2819.15	-261.19	-10805.07
3	4	-797.88	2151.40	41.44	2712.41	278.48	10304.59

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 66	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
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		Date	

Combination No. 273

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	856.49	2241.89	49.12	2492.52	-252.62	-11262.25
3	4	-840.99	2148.33	40.96	2374.89	279.95	11096.12

Combination No. 274

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.16	2066.78	49.33	2775.02	-262.65	-10863.52
3	4	-794.66	2184.50	40.75	2679.42	269.92	10157.56

Combination No. 275

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.93	2057.71	48.91	2251.41	-242.92	-10762.39
3	4	-788.43	2166.47	41.17	2112.46	289.66	10078.92

Combination No. 276

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	855.17	2170.43	49.11	2492.88	-252.29	-11440.20
3	4	-839.67	2219.78	40.97	2374.53	280.28	10880.15

Combination No. 277

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.93	2312.70	49.12	2492.16	-252.95	-10885.07
3	4	-826.43	2077.51	40.96	2375.25	279.63	11053.05

Combination No. 278

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 67	
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		Designed CAM	
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File Name: Pier 12 Straddle.rcp			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.23	2181.52	49.84	2261.96	-262.29	-10546.06
3	4	-794.03	2051.24	41.41	2157.65	277.38	10452.54

Combination No. 279
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.72	2198.26	49.56	2832.17	-249.34	-10633.14
3	4	-800.52	2062.13	41.69	2699.40	290.34	10552.82

Combination No. 280
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.17	2220.28	48.89	2797.34	-242.33	-10483.70
3	4	-794.67	2030.99	41.18	2657.10	290.25	10537.73

Combination No. 281
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.03	2202.27	49.32	2230.38	-262.06	-10405.76
3	4	-788.53	2021.91	40.76	2133.49	270.52	10438.37

Combination No. 282
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.87	2254.96	42.60	2130.16	-214.24	-10369.46
3	4	-787.11	2005.03	34.52	2015.50	240.23	10480.69

Combination No. 283
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.78	2176.11	42.35	2372.78	-202.94	-10094.84

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
		Designed CAM	
		Date 9/10/14	
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		Date	
File Name: Pier 12 Straddle.rcp			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-764.01	1974.91	34.76	2233.30	251.53	10088.73

Combination No. 284
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.83	2043.23	42.58	2131.23	-213.26	-10877.54
3	4	-787.06	2216.75	34.54	2014.42	241.21	9971.40

Combination No. 285
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.77	2013.11	42.82	2349.03	-224.56	-10486.28
3	4	-764.01	2137.91	34.30	2257.04	229.91	9697.14

Combination No. 286
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.34	2110.76	49.21	2781.44	-256.80	-10910.51
3	4	-804.85	2140.52	40.87	2673.00	275.77	10404.54

Combination No. 287
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.62	2099.12	49.03	2245.35	-248.43	-10808.50
3	4	-798.13	2125.06	41.05	2118.51	284.15	10312.58

Combination No. 288
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.47	2153.20	49.03	2412.75	-248.84	-11228.61
3	4	-826.97	2181.67	41.04	2286.82	283.73	10725.18

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Combination No. 289
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	748.78	1962.02	33.27	1733.33	-165.59	-9951.36
3	4	-725.26	2043.16	25.00	1638.76	175.27	9182.20

Combination No. 290
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	760.94	1976.36	33.09	1604.60	-157.03	-10166.41
3	4	-737.42	2094.21	25.18	1491.23	183.83	9318.01

Combination No. 291
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.12	2218.15	49.09	2410.01	-251.33	-11042.83
3	4	-826.63	2116.72	40.99	2289.55	281.24	10900.95

Combination No. 292
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.68	2076.83	49.23	2700.98	-257.73	-11014.35
3	4	-803.19	2220.28	40.85	2594.57	274.85	10252.78


Combination No. 293
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.90	2174.67	49.20	2320.38	-256.53	-10898.04
3	4	-813.40	2104.86	40.88	2211.34	276.04	10663.87

Combination No. 294
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.59	2311.73	49.08	2549.54	-250.95	-10880.82
3	4	-826.09	2077.03	41.00	2428.25	281.62	11047.50

Combination No. 295
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.34	2245.48	49.21	2320.02	-256.86	-10520.87
3	4	-798.84	2034.04	40.87	2211.70	275.72	10620.80

Combination No. 296
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.80	2144.68	49.11	2627.49	-252.31	-11268.32
3	4	-827.30	2198.25	40.97	2509.18	280.26	10694.88

Combination No. 297
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.77	2140.45	49.22	2701.17	-257.56	-11055.34
3	4	-816.28	2156.65	40.86	2594.39	275.02	10589.65

Combination No. 298
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	761.04	2135.93	33.10	1603.79	-157.77	-9820.44
3	4	-737.52	1934.64	25.16	1492.05	183.09	9666.97

Combination No. 299
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	746.49	2074.93	33.26	1477.24	-165.11	-9657.94

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 71	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-722.97	1917.50	25.01	1381.63	175.75	9409.42

Combination No. 300

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	844.22	2214.04	49.03	2631.45	-248.71	-11098.24
3	4	-828.72	2128.89	41.05	2505.22	283.87	10906.06

Combination No. 301

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.86	2172.78	49.03	2790.41	-248.64	-10733.72
3	4	-804.37	2078.50	41.05	2664.03	283.94	10567.48

Combination No. 302

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.06	2157.52	49.19	2236.91	-256.12	-10640.39
3	4	-797.57	2066.66	40.89	2126.96	276.46	10464.53

Combination No. 303

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.62	2254.13	42.55	2175.78	-212.11	-10366.55
3	4	-786.86	2004.72	34.57	2056.45	242.36	10476.46


Combination No. 304

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	854.51	2250.99	49.12	2492.47	-252.66	-11210.11
3	4	-839.02	2139.23	40.96	2374.94	279.91	11091.30

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 72	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 305

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.78	2108.42	50.04	2518.57	-253.08	-11185.52
3	4	-834.17	2281.79	41.12	2389.20	283.78	10740.68

Combination No. 306

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	797.58	2092.56	50.53	2299.62	-252.19	-10515.06
3	4	-799.27	2140.20	41.80	2160.34	291.78	10399.46

Combination No. 307

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.99	2104.10	50.75	2844.55	-262.25	-10612.77
3	4	-805.68	2156.29	41.58	2727.37	281.72	10486.70

Combination No. 308

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.40	2237.00	50.05	2517.92	-253.68	-11069.94
3	4	-848.79	2153.21	41.11	2389.85	283.19	11278.23

Combination No. 309

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.07	2061.89	50.27	2800.42	-263.71	-10671.21
3	4	-802.46	2189.38	40.89	2694.38	273.16	10339.67

Combination No. 310

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	73
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.08	2052.82	49.84	2276.80	-243.97	-10570.09
3	4	-796.23	2171.36	41.32	2127.42	292.89	10261.04

Combination No. 311

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 311

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.08	2165.55	50.04	2518.28	-263.35	-11247.89
3	4	-847.47	2224.67	41.11	2389.49	283.51	11062.26

Combination No. 312

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 312

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.84	2307.82	50.06	2517.56	-254.00	-10692.77
3	4	-834.23	2082.40	41.10	2390.20	282.86	11235.16

Combination No. 313

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 313

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.14	2176.64	50.78	2287.36	-263.35	-10353.75
3	4	-801.83	2056.12	41.56	2172.60	280.62	10634.65

Combination No. 314

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 314

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.63	2193.38	50.50	2287.57	-250.39	-10440.83
3	4	-808.32	2067.01	41.84	2174.35	293.57	10734.93

Combination No. 315


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 315

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.08	2215.40	49.83	2822.74	-243.38	-10291.39

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	74
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-802.47	2035.87	41.33	2672.05	293.48	10719.84

Combination No. 316

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 316

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.94	2197.39	50.25	2255.78	-263.12	-10213.46
3	4	-796.33	2026.79	40.90	2148.44	273.75	10620.48

Combination No. 317

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 317

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.78	2250.07	43.53	2155.56	-215.29	-10177.16
3	4	-794.91	2009.92	34.67	2030.45	243.46	10662.80

Combination No. 318

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 318

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.69	2171.22	43.29	2398.18	-203.99	-9902.54
3	4	-771.81	1979.79	34.91	2248.25	254.76	10270.84

Combination No. 319

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 319

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.74	2038.35	43.51	2156.63	-214.32	-10685.24
3	4	-794.86	2221.64	34.69	2029.38	244.44	10153.52

Combination No. 320


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 320

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.68	2008.22	43.75	2374.43	-225.61	-10293.97
3	4	-771.81	2142.79	34.44	2272.00	233.14	9879.25

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 75
		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Combination No. 321
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	811.25	2105.88	50.14	2806.84	-257.86	-10718.20
3	4	-812.65	2145.40	41.02	2687.95	279.01	10586.65

Combination No. 322
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.53	2094.23	49.96	2270.75	-249.48	-10616.20
3	4	-805.93	2129.95	41.20	2133.47	287.38	10494.70

Combination No. 323
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.38	2148.32	49.97	2438.15	-249.90	-11036.31
3	4	-834.77	2186.55	41.19	2301.77	286.97	10907.29

Combination No. 324
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	739.69	1957.14	34.21	1758.73	-166.64	-9759.05
3	4	-733.06	2048.05	25.14	1653.72	178.50	9364.31

Combination No. 325
Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	751.84	1971.48	34.02	1630.00	-158.08	-9974.11
3	4	-745.22	2099.09	25.33	1506.19	187.06	9500.12

Combination No. 326
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	811.25	2105.88	50.14	2806.84	-257.86	-10718.20
3	4	-812.65	2145.40	41.02	2687.95	279.01	10586.65

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 76
		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.03	2213.26	50.02	2726.38	-252.39	-10850.52
3	4	-834.43	2121.60	41.14	2304.51	284.48	11083.06

Combination No. 327
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.59	2071.94	50.16	2726.38	-258.78	-10822.04
3	4	-810.99	2225.16	41.00	2609.53	278.08	10434.90

Combination No. 328
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.80	2169.79	50.13	2345.78	-257.59	-10705.73
3	4	-821.20	2109.74	41.02	2226.29	279.28	10845.98

Combination No. 329
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.50	2306.85	50.01	2574.94	-252.01	-10688.52
3	4	-833.89	2081.91	41.14	2443.20	284.86	11229.62

Combination No. 330
Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.25	2240.60	50.14	2345.42	-257.91	-10328.56
3	4	-806.64	2038.93	41.02	2226.65	278.95	10802.91

Combination No. 331
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.71	2139.80	50.04	2652.89	-253.37	-11076.02
3	4	-833.71	2139.80	50.04	2652.89	-253.37	-11076.02

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 77	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-835.10	2203.14	41.11	2524.14	283.49	10876.99

Combination No. 332

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.68	2135.57	50.16	2726.57	-258.61	-10863.04
3	4	-824.08	2161.53	41.00	2609.34	278.25	10771.76

Combination No. 333

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	751.95	2131.05	34.04	1629.19	-158.82	-9628.13
3	4	-745.32	1939.52	25.31	1507.00	186.32	9849.08

Combination No. 334

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	737.40	2070.05	34.20	1502.64	-166.17	-9465.64
3	4	-730.77	1922.39	25.15	1396.59	178.98	9591.53

Combination No. 335

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.13	2209.16	49.97	2656.85	-249.76	-10905.94
3	4	-836.52	2133.77	41.19	2520.18	287.10	11088.18


Combination No. 336

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.77	2167.89	49.96	2815.81	-249.69	-10541.41
3	4	-812.17	2083.38	41.19	2678.99	287.17	10749.59

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 78	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Combination No. 337

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.97	2152.64	50.12	2262.31	-257.17	-10448.08
3	4	-805.37	2071.54	41.03	2141.91	279.69	10646.64

Combination No. 338

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.53	2249.25	43.49	2201.18	-213.17	-10174.25
3	4	-794.66	2009.60	34.71	2071.41	245.59	10658.58

Combination No. 339

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	845.42	2246.10	50.05	2517.87	-253.72	-11071.81
3	4	-846.82	2144.11	41.11	2389.89	283.15	11273.42

Combination No. 340

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.22	2105.73	50.58	2546.48	-257.75	-11071.93
3	4	-838.36	2284.48	42.05	2422.29	287.35	10843.37

Combination No. 341

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	792.03	2089.87	51.07	2327.53	-256.85	-10401.47
3	4	-803.46	2142.90	42.73	2193.43	295.35	10502.14

Combination No. 342

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	79
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.43	2101.41	51.29	2872.46	-266.91	-10499.18
3	4	-809.87	2158.98	42.51	2760.46	285.29	10589.38

Combination No. 343
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.84	2234.31	50.59	2545.83	-258.34	-10956.36
3	4	-852.98	2155.90	42.04	2422.93	286.76	11380.91

Combination No. 344
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.51	2059.20	50.81	2828.33	-268.37	-10657.63
3	4	-806.65	2192.08	41.82	2727.47	276.73	10442.36

Combination No. 345
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.29	2050.13	50.38	2304.71	-248.64	-10456.50
3	4	-800.42	2174.05	42.25	2160.51	296.46	10363.72

Combination No. 346
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	840.52	2162.85	50.58	2546.19	-258.02	-11134.31
3	4	-851.66	2227.36	42.04	2422.58	287.08	11164.94

Combination No. 347
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.28	2305.12	50.60	2545.47	-258.67	-10579.18

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	80
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-838.42	2085.09	42.03	2423.29	286.43	11337.84

Combination No. 348
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.59	2173.95	51.31	2315.27	-268.02	-10240.17
3	4	-806.02	2058.82	42.49	2205.69	284.18	10737.34

Combination No. 349
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.08	2190.68	51.04	2885.48	-255.06	-10327.25
3	4	-812.51	2069.71	42.77	2747.44	297.14	10837.62

Combination No. 350
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.53	2212.71	50.37	2850.65	-248.05	-10177.81
3	4	-806.66	2038.57	42.26	2705.14	297.05	10822.53

Combination No. 351
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.38	2194.69	50.79	2283.69	-267.78	-10099.87
3	4	-800.52	2029.49	41.83	2181.53	277.32	10723.17

Combination No. 352
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.23	2247.38	44.07	2183.47	-219.96	-10063.57
3	4	-799.09	2012.61	35.60	2063.54	247.03	10765.48

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 83	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Date 9/10/14 Checked Date	
File Name: Pier 12 Straddle.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-825.38	2112.43	41.95	2259.38	282.85	10948.67

Combination No. 364
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.94	2304.15	50.55	2602.85	-256.67	-10574.93
3	4	-838.08	2084.61	42.07	2476.29	288.43	11332.30

Combination No. 365
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.69	2237.90	50.68	2373.33	-262.58	-10214.98
3	4	-810.83	2041.62	41.95	2259.74	282.52	10905.60

Combination No. 366
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.15	2137.10	50.58	2680.80	-258.04	-10962.43
3	4	-839.29	2205.83	42.04	2557.23	287.06	10979.67

Combination No. 367
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.13	2132.87	50.70	2754.48	-263.28	-10749.45
3	4	-828.26	2164.23	41.93	2642.43	281.82	10874.44

Combination No. 368
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	746.39	2128.36	34.58	1657.10	-163.49	-9514.55
3	4	-749.51	1942.21	26.24	1540.09	189.89	9951.76

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 84	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Date 9/10/14 Checked Date	
File Name: Pier 12 Straddle.rcp			

Combination No. 369
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	731.84	2067.35	34.74	1530.55	-170.83	9352.05
3	4	-734.95	1925.08	26.08	1429.67	182.55	9694.21

Combination No. 370
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.58	2206.46	50.50	2684.76	-254.43	-10792.35
3	4	-840.71	2136.47	42.12	2553.27	290.67	11190.86

Combination No. 371
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.22	2165.20	50.50	2843.72	-254.36	-10427.83
3	4	-816.35	2086.07	42.12	2712.08	290.74	10852.27

Combination No. 372
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.42	2149.95	50.66	2290.22	-261.84	-10334.50
3	4	-809.55	2074.24	41.96	2175.00	283.26	10749.33


Combination No. 373
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.98	2246.55	44.03	2229.09	-217.83	-10060.66
3	4	-798.85	2012.30	35.64	2104.50	249.16	10761.26

Combination No. 374
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	85
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.87	2243.41	50.59	2545.78	-258.38	-10904.22
3	4	-851.00	2146.81	42.04	2422.98	286.72	11376.10

Combination No. 375

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 375

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.87	2243.41	50.59	2545.78	-258.38	-10904.22
3	4	-851.00	2146.81	42.04	2422.98	286.72	11376.10

Combination No. 376

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 376

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.67	2092.68	-24.26	-1594.87	156.07	-11026.69
3	4	-754.85	2075.70	-25.06	-1618.72	-142.29	9523.98

Combination No. 377

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 377

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.08	2104.22	-24.04	-1049.94	146.01	-11124.40
3	4	-761.25	2091.79	-25.27	-1051.69	-152.35	9611.22

Combination No. 378

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 378

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	867.19	2236.90	-23.56	-1310.26	147.53	-11525.07
3	4	-804.66	2088.93	-24.58	-1323.30	-143.72	10409.27

Combination No. 379


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 379

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.86	2061.79	-23.34	-1027.76	137.50	-11176.35

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-758.33	2125.10	-24.80	-1018.77	-153.75	9470.71

Combination No. 380

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 380

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.63	2052.72	-23.77	-1551.37	157.24	-11075.22
3	4	-752.11	2107.08	-24.37	-1585.73	-134.02	9392.08

Combination No. 381

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 381

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	865.87	2165.44	-23.56	-1309.90	147.86	-11753.02
3	4	-803.35	2160.39	-24.57	-1323.66	-143.40	10193.30

Combination No. 382

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 382

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	852.63	2307.72	-23.55	-1310.62	147.21	-11197.90
3	4	-790.10	2018.12	-24.59	-1322.94	-144.05	10366.20

Combination No. 383

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 383

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.23	2176.76	-24.02	-1607.13	144.90	-10865.38
3	4	-757.41	1991.63	-25.30	-1606.46	-153.45	9759.17

Combination No. 384


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 384

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.72	2193.49	-24.30	-1036.92	157.86	-10952.46
3	4	-763.90	2002.51	-25.02	-1064.71	-140.50	9859.45

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	87
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 385
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.87	2215.30	-23.78	-1005.43	157.83	-10796.52
3	4	-758.35	1971.59	-24.36	-1041.09	-133.43	9850.88

Combination No. 386
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.73	2197.29	-23.35	-1572.40	138.10	-10718.59
3	4	-752.20	1962.51	-24.78	-1564.70	-153.16	9751.52

Combination No. 387
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.32	2247.56	-17.02	-943.21	108.44	-10610.80
3	4	-754.06	1948.05	-18.15	-957.65	-104.71	9865.61

Combination No. 388
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.22	2168.71	-17.27	-700.59	119.74	-10336.18
3	4	-730.96	1917.93	-17.91	-739.85	-93.41	9473.65


Combination No. 389
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.27	2035.84	-17.05	-942.13	109.42	-11118.88
3	4	-754.02	2159.77	-18.13	-958.72	-103.74	9356.33

Combination No. 390
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	88
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.22	2005.71	-16.80	-724.33	98.12	-10727.62
3	4	-730.96	2080.92	-18.38	-716.11	-115.03	9082.06

Combination No. 391
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.05	2105.77	-23.47	-1021.33	143.35	-11223.33
3	4	-768.52	2081.12	-24.67	-1025.19	-147.90	9717.69

Combination No. 392
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.33	2094.13	-23.65	-1557.42	151.73	-11121.33
3	4	-761.80	2065.67	-24.49	-1579.67	-139.53	9625.74

Combination No. 393
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	853.17	2148.21	-23.64	-1390.03	151.31	-11541.44
3	4	-790.65	2122.27	-24.50	-1411.37	-139.94	10038.33

Combination No. 394
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	751.48	1951.12	-17.37	-279.08	44.39	-10088.71
3	4	-696.98	1989.69	-8.96	-279.79	-55.15	8671.51

Combination No. 395
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	763.64	1965.46	-17.55	-407.80	52.95	-10303.77

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 89	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
File Name: Pier 12 Straddle.rcp		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-709.13	2040.73	-8.78	-427.31	-46.59	8807.32

Combination No. 396
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	852.83	2213.16	-23.58	-1392.77	148.82	-11355.66
3	4	-790.30	2057.33	-24.55	-1408.64	-142.43	10214.10

Combination No. 397
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.39	2071.84	-23.45	-1101.79	142.43	-11327.18
3	4	-766.86	2160.88	-24.69	-1103.61	-148.83	9565.94

Combination No. 398
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.60	2169.68	-23.47	-1482.40	143.62	-11210.87
3	4	-777.07	2045.46	-24.66	-1486.85	-147.63	9977.03

Combination No. 399
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	852.29	2306.75	-23.59	-1253.23	149.20	-11193.65
3	4	-789.76	2017.63	-24.54	-1269.94	-142.05	10360.66

Combination No. 400
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.04	2240.50	-23.47	-1482.76	143.30	-10833.69
3	4	-762.51	1974.65	-24.67	-1486.49	-147.96	9933.96

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 90	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
File Name: Pier 12 Straddle.rcp		Date 9/10/14	
		Checked	
		Date	

Combination No. 401
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	853.50	2139.69	-23.56	-1175.29	147.84	-11581.15
3	4	-790.97	2138.86	-24.57	-1189.00	-143.42	10008.03

Combination No. 402
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.48	2135.47	-23.45	-1101.61	142.60	-11368.17
3	4	-779.95	2097.25	-24.69	-1103.80	-148.66	9902.80

Combination No. 403
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	763.74	2125.03	-7.53	-408.61	52.21	-9957.80
3	4	-709.24	1881.16	-8.79	-426.50	-47.33	9156.28

Combination No. 404
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.19	2064.03	-7.38	-535.16	44.87	-9795.30
3	4	-694.69	1864.03	-8.95	-536.92	-54.67	8898.73


Combination No. 405
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	854.92	2209.06	-23.64	-1171.33	151.45	-11411.07
3	4	-792.40	2069.49	-24.50	-1192.96	-139.81	10219.22

Combination No. 406
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	91
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.57	2167.79	-23.64	-1012.37	151.52	-11046.54
3	4	-768.04	2019.10	-24.49	-1034.16	-139.74	9880.63

Combination No. 407

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.77	2152.54	-23.48	-1565.87	144.04	-10953.21
3	4	-761.24	2007.26	-24.66	-1571.23	-147.22	9777.69

Combination No. 408

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.07	2246.73	-17.07	-897.59	110.56	-10607.89
3	4	-753.81	1947.73	-18.11	-916.70	-102.59	9861.39

Combination No. 409

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	865.22	2246.00	-23.56	-1310.30	147.49	-11522.94
3	4	-802.69	2079.83	-24.58	-1323.25	-143.76	10404.46

Combination No. 410

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.58	2128.14	-19.44	-1164.81	134.14	-11847.47
3	4	-805.69	2262.07	-22.63	-1208.41	-123.15	10096.47


Combination No. 411

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.68	2112.50	-20.13	-1450.06	142.09	-11183.51

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	92
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-770.49	2120.26	-23.12	-1503.17	-122.31	9748.72

Combination No. 412

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.09	2124.04	-19.91	-905.13	132.03	-11281.21
3	4	-776.90	2136.35	-23.34	-936.14	-132.37	9835.96

Combination No. 413

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	878.20	2256.72	-19.42	-1165.46	133.55	-11731.89
3	4	-820.31	2133.49	-22.64	-1207.76	-123.74	10634.02

Combination No. 414

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.87	2081.61	-19.21	-882.96	123.52	-11333.16
3	4	-773.98	2169.66	-22.86	-903.22	-133.77	9695.46

Combination No. 415

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.64	2072.54	-19.63	-1406.57	143.26	-11232.04
3	4	-767.75	2151.64	-22.43	-1470.18	-114.04	9616.83


Combination No. 416

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	876.88	2185.27	-19.43	-1165.10	133.88	-11909.84
3	4	-818.99	2204.95	-22.64	-1208.12	-123.41	10418.05

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	93
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 417

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 417

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.64	2327.54	-19.42	-1165.82	133.23	-11354.72
3	4	-805.75	2062.68	-22.65	-1207.40	-124.07	10590.95

Combination No. 418

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 418

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.24	2196.58	-19.88	-1462.32	130.92	-11022.20
3	4	-773.05	2036.19	-23.36	-1490.91	-133.47	9983.92

Combination No. 419

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 419

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.73	2213.31	-20.16	-892.12	143.88	-11109.28
3	4	-779.54	2047.07	-23.08	-949.16	-120.51	10084.20

Combination No. 420

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 420

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.88	2235.12	-19.65	-860.63	143.85	-10953.34
3	4	-773.99	2016.15	-22.42	-925.55	-113.44	10075.63

Combination No. 421

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 421

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.74	2217.11	-19.22	-1427.59	124.11	-10875.41
3	4	-767.85	2007.07	-22.85	-1449.16	-133.18	9976.27

Combination No. 422


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 422

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.33	2113.95	-19.51	-1412.62	137.75	-11278.15
3	4	-835.33	2113.95	-19.51	-1412.62	137.75	-11278.15

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	94
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 423

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 423

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.32	2267.38	-12.89	-798.41	94.46	-10767.62
3	4	-769.70	1992.61	-16.22	-842.11	-84.73	10090.36

Combination No. 424

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 424

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.23	2188.53	-13.13	-555.79	105.76	-10493.00
3	4	-746.61	1962.49	-15.97	-624.31	-73.43	9698.40

Combination No. 425

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 425

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.28	2055.66	-12.91	-797.33	95.43	-11275.70
3	4	-769.66	2204.33	-16.20	-843.18	-83.75	9581.07

Combination No. 426

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 426

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.23	2025.53	-12.67	-579.53	84.14	-10884.43
3	4	-746.60	2125.48	-16.44	-600.56	-95.05	9306.81

Combination No. 427

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 427

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.05	2125.59	-19.33	-876.53	129.37	-11380.15
3	4	-784.16	2125.68	-22.73	-909.65	-127.92	9942.44

Combination No. 427


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 427

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.33	2113.95	-19.51	-1412.62	137.75	-11278.15
3	4	-835.33	2113.95	-19.51	-1412.62	137.75	-11278.15

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 95	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-777.44	2110.23	-22.55	-1464.13	-119.54	9850.48

Combination No. 428
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	864.18	2168.04	-19.51	-1245.23	137.33	-11698.26
3	4	-806.29	2166.83	-22.56	-1295.83	-119.96	10263.08

Combination No. 429
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	762.49	1970.94	-3.23	-134.27	30.41	-10245.53
3	4	-712.62	2034.25	-7.03	-164.24	-35.17	8896.26

Combination No. 430
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.65	1985.28	-3.42	-263.00	38.97	-10460.59
3	4	-724.78	2085.29	-6.84	-311.77	-26.61	9032.07

Combination No. 431
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.84	2232.98	-19.45	-1247.97	134.84	-11512.47
3	4	-805.94	2101.89	-22.62	-1293.10	-122.45	10438.85

Combination No. 432
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	840.39	2091.66	-19.31	-956.99	128.44	-11483.99
3	4	-782.50	2205.44	-22.75	-988.07	-128.85	9790.68

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 96	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 433

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 433

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.61	2189.51	-19.34	-1337.60	129.64	-11367.68
3	4	-792.71	2090.02	-22.73	-1371.31	-127.65	10201.77

Combination No. 434

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 434

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	863.30	2326.57	-19.46	-1108.43	135.22	-11350.46
3	4	-805.41	2062.19	-22.61	-1154.40	-122.07	10585.41

Combination No. 435

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 435

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	836.05	2260.32	-19.33	-1337.96	129.32	-10990.51
3	4	-778.16	2019.21	-22.74	-1370.95	-127.98	10158.70

Combination No. 436

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 436

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	864.51	2159.51	-19.43	-1030.49	133.86	-11737.97
3	4	-806.62	2183.42	-22.64	-1073.46	-123.43	10232.78

Combination No. 437

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 437


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	853.48	2155.29	-19.32	-956.81	128.62	-11524.99
3	4	-795.59	2141.81	-22.75	-988.26	-128.68	10127.55

Combination No. 438

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	97
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.75	2144.85	-3.40	-263.81	38.23	-10114.61
3	4	-724.88	1925.72	-6.86	-310.96	-27.35	9381.03

Combination No. 439

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	760.20	2083.85	-3.24	-390.36	30.88	-9952.11
3	4	-710.33	1908.59	-7.02	-421.37	-34.69	9123.48

Combination No. 440

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	865.93	2228.88	-19.51	-1026.53	137.47	-11567.88
3	4	-808.04	2114.05	-22.56	-1077.42	-119.83	10443.97

Combination No. 441

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.57	2187.61	-19.51	-867.57	137.54	-11203.36
3	4	-783.68	2063.66	-22.56	-918.61	-119.76	10105.38

Combination No. 442

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.77	2172.36	-19.35	-1421.07	130.06	-11110.03
3	4	-776.88	2051.82	-22.72	-1455.69	-127.23	10002.43


Combination No. 443

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.08	2266.55	-12.94	-752.79	96.58	-10764.71

Units: US (English)

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-769.45	1992.29	-16.17	-801.16	-82.60	10086.13

Combination No. 444

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	876.22	2265.82	-19.42	-1165.50	133.51	-11679.76
3	4	-818.33	2124.39	-22.65	-1207.71	-123.78	10629.21

Combination No. 445

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.81	2127.06	-14.56	-993.65	116.70	-11810.03
3	4	-807.23	2263.15	-20.06	-1068.36	-99.07	10132.08

Combination No. 446

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.91	2111.42	-15.25	-1278.90	124.64	-11146.07
3	4	-772.03	2121.35	-20.55	-1363.13	-98.23	9784.33

Combination No. 447

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.31	2122.96	-15.03	-733.97	114.58	-11243.78
3	4	-778.44	2137.43	-20.76	-796.10	-108.29	9871.57


Combination No. 448

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	876.43	2255.64	-14.55	-994.30	116.11	-11694.45
3	4	-821.84	2134.57	-20.07	-1067.71	-99.66	10669.63

Units: US (English)

Design Code: AASHTO LRFD

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File Name: Pier 12 Straddle.rcp		
Combination No. 449		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 449		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 450		
Group id: STR GP 5 Name: STRENGTH GROUP V		
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Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 451		
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Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 452		
Group id: STR GP 5 Name: STRENGTH GROUP V		
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Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 453		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 453		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 454		
Group id: STR GP 5 Name: STRENGTH GROUP V		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.10	2080.53	-14.33	-711.80	106.07	-11295.72
3	4	-775.52	2170.74	-20.29	-763.18	-109.69	9731.07

Combination No. 450							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.87	2071.46	-14.76	-1235.41	125.81	-11194.60
3	4	-769.29	2152.72	-19.86	-1330.14	-89.95	9652.43

Combination No. 451							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	875.11	2184.18	-14.56	-993.94	116.43	-11872.40
3	4	-820.53	2206.03	-20.06	-1068.07	-99.33	10453.66


Combination No. 452							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.87	2326.45	-14.54	-994.66	115.78	-11317.28
3	4	-807.29	2063.76	-20.08	-1067.35	-99.98	10626.56

Combination No. 453							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.47	2195.50	-15.01	-1291.16	113.48	-10984.76
3	4	-774.59	2037.27	-20.79	-1350.87	-109.39	10019.53

Combination No. 454							
Group id: STR GP 5 Name: STRENGTH GROUP V							

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		Job # 59219
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		Date
File Name: Pier 12 Straddle.rcp		
Combination No. 455		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 455		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 456		
Group id: STR GP 5 Name: STRENGTH GROUP V		
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Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 458		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 459		
Group id: STR GP 5 Name: STRENGTH GROUP V		
Combination No. 459		
Group id: STR GP 5 Name: STRENGTH GROUP V		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.96	2212.23	-15.29	-720.95	126.43	-11071.84
3	4	-781.08	2048.16	-20.51	-809.12	-96.43	10119.81

Combination No. 455							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.11	2234.04	-14.77	-689.47	126.40	-10915.90
3	4	-775.53	2017.24	-19.85	-785.50	-89.36	10111.24

Combination No. 456							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.97	2216.03	-14.34	-1256.43	106.67	-10837.97
3	4	-769.39	2008.15	-20.27	-1309.12	-109.10	10011.88

Combination No. 457							
Group id: STR GP 5 Name: STRENGTH GROUP V							


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.55	2266.30	-8.02	-627.24	77.01	-10730.18
3	4	-771.24	1993.69	-13.64	-702.07	-60.65	10125.96

Combination No. 458							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.46	2187.45	-8.26	-384.63	88.31	-10455.56
3	4	-748.15	1963.57	-13.40	-484.26	-49.35	9734.00

Combination No. 459							
Group id: STR GP 5 Name: STRENGTH GROUP V							

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.51	2054.58	-8.04	-426.17	77.99	-11238.26

		Sheet # 101	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-771.20	2205.41	-13.62	-703.14	-59.67	9616.68

Combination No. 460

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.45	2024.45	-7.79	-408.37	66.69	-10847.00
3	4	-748.14	2126.57	-13.87	-460.52	-70.97	9342.41

Combination No. 461

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	840.28	2124.51	-14.46	-705.37	111.92	-11342.71
3	4	-785.70	2126.76	-20.16	-769.61	-103.84	9978.05

Combination No. 462

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.56	2112.87	-14.64	-1241.46	120.30	-11240.71
3	4	-778.98	2111.31	-19.98	-1324.09	-95.46	9886.09

Combination No. 463

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	862.41	2166.95	-14.63	-1074.07	119.88	-11660.82
3	4	-807.83	2167.92	-19.99	-1155.79	-95.88	10298.69


Combination No. 464

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	760.72	1969.86	1.64	36.89	12.96	-10208.09
3	4	-714.16	2035.33	4.45	-24.20	-11.09	8931.86

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 102	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Date	
		Date	

Combination No. 465

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	772.88	1984.20	1.46	-91.84	21.52	-10423.15
3	4	-726.32	2086.38	4.27	-171.73	-2.53	9067.68

Combination No. 466

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	862.06	2231.90	-14.58	-1076.80	117.39	-11475.03
3	4	-807.48	2102.97	-20.04	-1153.05	-98.37	10474.46

Combination No. 467

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.62	2090.58	-14.44	-785.83	111.00	-11446.56
3	4	-784.04	2206.52	-20.18	-848.03	-104.77	9826.29

Combination No. 468

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.83	2188.42	-14.46	-1166.44	112.19	-11330.25
3	4	-794.25	2091.10	-20.16	-1231.26	-103.57	10237.38

Combination No. 469

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.53	2325.49	-14.58	-937.27	117.78	-11313.03
3	4	-806.95	2063.27	-20.03	-1014.36	-97.99	10621.01

Combination No. 470

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.28	2259.24	-14.46	-1166.80	111.87	-10953.07
3	4	-779.69	2020.29	-20.16	-1230.91	-103.90	10194.31

Combination No. 471

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	862.74	2158.43	-14.55	-859.33	116.41	-11700.53
3	4	-808.16	2184.50	-20.06	-933.42	-99.35	10268.39

Combination No. 472

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	851.71	2154.21	-14.44	-785.64	111.17	-11487.55
3	4	-797.13	2142.90	-20.18	-848.22	-104.60	10163.16

Combination No. 473

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	772.98	2143.77	1.47	-92.65	20.78	-10077.17
3	4	-726.42	1926.80	-4.28	-170.91	3.27	9416.64

Combination No. 474

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.43	2082.77	1.63	-219.19	13.44	-9914.68
3	4	-711.87	1909.67	-4.44	-281.33	-10.61	9159.08


Combination No. 475

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	864.16	2227.80	-14.63	-855.37	120.02	-11530.45

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 104	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-809.58	2115.13	-19.99	-937.38	-95.75	10479.57

Combination No. 476

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.80	2186.53	-14.63	-696.41	120.09	-11165.92
3	4	-785.22	2064.74	-19.98	-778.57	-95.68	10140.99

Combination No. 477

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.00	2171.28	-14.47	-1249.90	112.61	-11072.59
3	4	-778.42	2052.90	-20.15	-1315.65	-103.15	10038.04

Combination No. 478

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.30	2265.47	-8.06	-581.62	79.13	-10727.27
3	4	-770.99	1993.38	-13.60	-661.11	-58.52	10121.74

Combination No. 479

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	874.45	2264.74	-14.55	-994.34	116.06	-11642.32
3	4	-819.87	2125.47	-20.07	-1067.67	-99.70	10664.81


Combination No. 480

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	856.98	2124.49	-11.41	-888.65	107.20	-11709.27
3	4	-811.17	2265.72	-18.68	-987.31	-84.49	10225.83

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	105
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 481
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.08	2108.85	-12.09	-1173.91	115.14	-11045.31
3	4	-775.98	2123.91	-19.17	-1282.08	-83.65	9878.08

Combination No. 482
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.48	2120.39	-11.88	-428.98	105.08	-11143.01
3	4	-782.38	2140.00	-19.39	-715.05	-93.71	9965.32

Combination No. 483
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	871.59	2253.07	-11.39	-489.30	106.61	-11593.69
3	4	-825.79	2137.14	-18.70	-986.66	-85.08	10763.38

Combination No. 484
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.27	2077.96	-11.18	-606.80	96.57	-11194.96
3	4	-779.46	2173.31	-18.91	-682.13	-95.11	9824.82


Combination No. 485
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.04	2068.89	-11.60	-1130.42	116.31	-11093.84
3	4	-773.24	2155.29	-18.49	-1249.09	-75.38	9746.18

Combination No. 486
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	106
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	870.28	2181.62	-11.40	-888.94	106.93	-11771.64
3	4	-824.47	2208.60	-18.69	-987.02	-84.76	10547.40

Combination No. 487
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	857.04	2323.89	-11.39	-889.66	106.28	-11216.52
3	4	-811.23	2066.33	-18.70	-986.30	-85.41	10720.30

Combination No. 488
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.63	2192.93	-11.85	-1186.17	103.98	-10884.00
3	4	-778.54	2039.84	-19.41	-1269.82	-94.81	10113.27

Combination No. 489
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.13	2209.66	-12.13	-615.96	116.93	-10971.08
3	4	-785.03	2050.72	-19.13	-728.07	-81.86	10213.55

Combination No. 490
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.28	2231.47	-11.62	-584.48	116.90	-10815.14
3	4	-779.48	2019.80	-18.47	-704.45	-74.79	10204.99

Combination No. 491
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.14	2213.46	-11.19	-1151.44	97.17	-10737.21

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 107	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-773.33	2010.72	-18.90	-1228.06	-94.52	10105.63

Combination No. 492

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.72	2263.73	-4.86	-522.25	67.51	-10629.42
3	4	-775.19	1996.26	-12.27	-621.01	-46.07	10219.71

Combination No. 493

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.63	2184.88	-5.10	-279.63	78.81	-10354.80
3	4	-752.09	1966.14	-12.03	-403.21	-34.77	9827.75

Combination No. 494

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.68	2052.01	-4.88	-521.18	68.49	-11137.50
3	4	-775.14	2207.98	-12.25	-622.08	-45.10	9710.43

Combination No. 495

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.62	2021.88	-4.64	-303.38	57.19	-10746.23
3	4	-752.09	2129.13	-12.49	-379.47	-56.39	9436.16


Combination No. 496

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.45	2121.94	-11.30	-600.38	102.42	-11241.95
3	4	-789.65	2129.33	-18.79	-688.55	-89.26	10071.80

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Combination No. 497

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.73	2110.30	-11.48	-1136.47	110.80	-11139.95
3	4	-782.93	2113.88	-18.61	-1243.04	80.89	9979.84

Combination No. 498

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	857.58	2164.39	-11.47	-969.08	110.38	-11560.06
3	4	-811.78	2170.48	-18.62	-1074.73	81.30	10392.44

Combination No. 499

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	755.89	1967.29	4.80	141.88	3.46	-10107.33
3	4	-718.11	2037.90	-3.08	56.85	3.49	9025.61

Combination No. 500

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	768.04	1981.63	4.61	13.15	12.02	-10322.39
3	4	-730.26	2088.94	-2.89	-90.67	12.05	9161.42

Combination No. 501

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	857.23	2229.33	-11.42	-971.81	107.89	-11374.27
3	4	-811.43	2105.54	-18.67	-1072.00	-83.79	10568.20

Combination No. 502

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 109	
		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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Phone: 1-800-778-4277		Checked	
Date		Date	

Pier 12 Straddle.rpt										
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft			
1	1	833.79	2088.01	-11.28	-680.84	101.50	-11345.80			
3	4	-787.99	2209.09	-18.81	-766.98	-90.19	9920.04			

Combination No. 503

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 503

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	844.00	2185.86	-11.31	-1061.45	102.69	-11229.48
3	4	-798.20	2093.67	-18.78	-1150.21	-89.00	10331.13

Combination No. 504

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 504

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	856.70	2322.92	-11.43	-832.28	108.28	-11212.27
3	4	-810.89	2065.84	-18.66	-933.30	-83.41	10714.76

Combination No. 505

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 505

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.44	2256.67	-11.30	-1061.81	102.37	-10852.31
3	4	-783.64	2022.86	-18.79	-1149.85	-89.32	10288.06

Combination No. 506

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 506

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	857.90	2155.86	-11.40	-754.33	106.91	-11599.77
3	4	-812.10	2187.07	-18.69	-852.37	-84.78	10362.13

Combination No. 507


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 507

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	846.88	2151.64	-11.29	-680.65	101.67	-11386.79

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 110	
		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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Date		Date	

Pier 12 Straddle.rpt										
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft			
3	4	-801.08	2145.46	-18.80	-767.16	-90.02	10256.90			

Combination No. 508

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 508

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	768.15	2141.20	4.63	12.34	11.28	-9976.41
3	4	-730.37	1929.37	-2.91	-89.86	11.31	9510.38

Combination No. 509

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 509

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.60	2080.20	4.79	-114.20	3.94	-9813.92
3	4	-715.82	1912.24	-3.07	-200.28	3.96	9252.83

Combination No. 510

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 510

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	859.33	2225.23	-11.48	-750.37	110.52	-11429.69
3	4	-813.53	2117.70	-18.61	-856.32	-81.17	10573.32

Combination No. 511

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 511

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.97	2183.96	-11.48	-591.41	110.59	-11065.16
3	4	-789.17	2067.31	-18.61	-697.52	-81.10	10234.74

Combination No. 512


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 512

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.17	2168.71	-11.32	-1144.91	103.11	-10971.83
3	4	-782.37	2055.47	-18.77	-1234.59	38.58	10131.79

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 111	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 513	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.47	2262.90	-4.91	-476.63	69.63	-10626.51
3	4	-774.94	1995.94	-12.22	-580.06	-43.95	10215.49

Combination No. 514	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	869.62	2262.17	-11.39	-489.35	106.56	-11541.56
3	4	-823.82	2128.04	-18.70	-986.61	-85.13	10758.56

Combination No. 515	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.88	2119.61	-10.47	-463.25	106.14	-11516.96
3	4	-818.97	2270.60	-18.54	-972.35	-81.26	10407.94


Combination No. 516	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.98	2103.97	-11.16	-1148.51	114.08	-10853.00
3	4	-783.78	2128.80	-19.03	-1267.12	-80.42	10060.19

Combination No. 517	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.39	2115.51	-10.94	-4603.58	104.02	-10950.71
3	4	-790.18	2144.88	-19.25	-700.09	-90.48	10147.43

Combination No. 518	
Group id: STR GP 5 Name: STRENGTH GROUP V	

		Sheet # 112	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	862.50	2248.19	-10.46	-4863.90	105.55	-11401.38
3	4	-833.59	2142.02	-18.55	-971.70	-81.85	10945.49

Combination No. 519	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.17	2073.08	-10.24	-581.40	95.52	-11002.66
3	4	-787.26	2178.20	-18.77	-667.17	-91.88	10006.93

Combination No. 520	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.95	2064.01	-10.67	-1105.02	115.25	-10901.53
3	4	-781.04	2160.17	-18.34	-1234.13	-72.15	9928.29

Combination No. 521	
Group id: STR GP 5 Name: STRENGTH GROUP V	


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	861.19	2176.73	-10.47	-863.54	105.88	-11579.34
3	4	-832.27	2213.48	-18.54	-972.06	-81.52	10729.52

Combination No. 522	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.94	2319.00	-10.45	-864.26	105.22	-11024.21
3	4	-819.03	2071.21	-18.56	-971.34	-82.18	10902.42

Combination No. 523	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.54	2188.05	-10.92	-1160.77	102.92	-10691.69

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-786.34	2044.72	-19.27	-1254.86	-91.58	10295.39

Combination No. 524

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.03	2204.78	-11.20	-590.56	115.88	-10778.78
3	4	-792.83	2055.61	-18.99	-713.11	-78.62	10395.67

Combination No. 525

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.19	2226.59	-10.68	-559.08	115.85	-10622.83
3	4	-787.28	2024.69	-18.33	-689.49	-71.55	10387.10

Combination No. 526

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.04	2208.58	-10.26	-1126.04	96.11	-10544.90
3	4	-781.13	2015.61	-18.75	-1213.11	-91.29	10287.74

Combination No. 527

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.63	2258.85	-3.93	-496.85	66.45	-10437.11
3	4	-782.99	2001.14	-12.13	-606.06	-42.84	10401.82


Combination No. 528

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.54	2180.00	-4.17	-254.23	77.75	-10162.49
3	4	-759.89	1971.02	-11.88	-388.25	-31.54	10009.86

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Date	

Combination No. 529

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.59	2047.12	-3.95	-495.78	67.43	-10945.19
3	4	-782.94	2212.86	-12.10	-607.13	-41.86	9892.54

Combination No. 530

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.53	2017.00	-3.70	-277.98	56.13	-10553.93
3	4	-759.89	2134.02	-12.35	-364.51	-53.16	9618.27

Combination No. 531

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.36	2117.06	-10.37	-574.98	101.37	-11049.65
3	4	-797.45	2134.21	-18.64	-673.60	-86.03	10253.91

Combination No. 532

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.64	2105.42	-10.55	-1111.07	109.74	-10947.64
3	4	-790.73	2118.76	-18.46	-1228.08	-77.66	10161.95

Combination No. 533

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.49	2159.50	-10.54	-943.68	109.33	-11367.75
3	4	-819.58	2175.37	-18.47	-1059.78	-78.07	10574.55

Combination No. 534

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	746.80	1962.40	5.73	167.28	2.40	-9915.02
3	4	-725.91	2042.78	-2.93	71.81	6.72	9207.72

Combination No. 535

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 535

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.95	1976.74	5.55	38.55	10.96	-10130.08
3	4	-738.06	2093.83	-2.75	-75.72	15.28	9343.54

Combination No. 536

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 536

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.14	2224.45	-10.49	-946.41	106.84	-11181.97
3	4	-819.23	2110.42	-18.52	-1057.04	-80.56	10750.32

Combination No. 537

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 537

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.70	2083.13	-10.35	-655.44	100.44	-11153.49
3	4	-795.79	2213.97	-18.66	-752.02	-86.96	10102.15

Combination No. 538

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 538

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	834.91	2180.97	-10.37	-1036.05	101.64	-11037.18
3	4	-806.00	2098.55	-18.64	-1135.26	-85.76	10513.24

Combination No. 539


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 539

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.60	2318.03	-10.50	-806.88	107.22	-11019.96

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-818.69	2070.73	-18.52	-918.35	-80.18	10896.87

Combination No. 540

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 540

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.35	2251.78	-10.37	-1036.41	101.31	-10660.00
3	4	-791.44	2027.74	-18.64	-1134.90	-86.09	10470.17

Combination No. 541

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 541

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	848.81	2150.98	-10.47	-728.93	105.86	-111407.46
3	4	-819.90	2191.95	-18.54	-837.41	-81.54	10544.25

Combination No. 542

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 542

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.79	2146.76	-10.35	-655.25	100.61	-11194.48
3	4	-808.88	2150.35	-18.66	-752.21	-86.79	10439.02

Combination No. 543

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 543

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	759.06	2136.31	5.56	37.74	10.22	-9784.11
3	4	-738.17	1934.26	-2.76	-74.90	14.54	9692.50

Combination No. 544


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 544

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	744.50	2075.31	5.72	-88.80	2.88	-9621.61
3	4	-723.62	1917.12	-2.92	-185.32	7.20	9434.94

Units: US (English)

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Combination No. 545	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.24	2220.35	-10.54	-724.97	109.46	-11237.38
3	4	-821.33	2122.59	-18.47	-841.37	-77.94	10755.43

Combination No. 546	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.88	2179.08	-10.55	-566.01	109.53	-10872.85
3	4	-796.97	2072.19	-18.47	-682.56	-77.87	10416.85

Combination No. 547	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.08	2163.83	-10.38	-1119.51	102.06	-10779.52
3	4	-790.17	2060.36	-18.63	-1219.64	-85.34	10313.90

Combination No. 548	
Group id: STR GP 5 Name: STRENGTH GROUP V	


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.38	2258.02	-3.97	-451.23	68.58	-10434.20
3	4	-782.74	2000.83	-12.08	-565.10	-40.72	10397.60

Combination No. 549	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	860.53	2257.29	-10.46	-863.95	105.51	-11349.25
3	4	-831.62	2132.92	-18.55	-971.66	-81.89	10940.67

Combination No. 550	
Group id: STR GP 5 Name: STRENGTH GROUP V	

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File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.33	2116.91	-9.93	-835.34	101.48	-11403.38
3	4	-823.16	2273.30	-17.61	-939.26	-77.69	10510.62

Combination No. 551	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	807.43	2101.27	-10.62	-1120.60	109.42	-10739.42
3	4	-787.96	2131.49	-18.10	-1234.03	-76.85	10162.88

Combination No. 552	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.84	2112.81	-10.40	-575.67	99.36	-10837.12
3	4	-794.37	2147.58	-18.32	-667.00	-86.91	10250.12

Combination No. 553	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	856.95	2245.50	-9.92	-835.99	100.88	-11287.80
3	4	-837.78	2144.72	-17.62	-938.61	-78.28	11048.17


Combination No. 554	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.62	2070.38	-9.70	-553.49	90.85	-10889.07
3	4	-791.45	2180.89	-17.84	-634.08	-88.31	10109.62

Combination No. 555	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.39	2061.31	-10.13	-1077.11	110.59	-10787.95

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-785.22	2162.87	-17.41	-1201.04	-68.58	10030.98

Combination No. 556

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	855.63	2174.04	-9.93	-835.63	101.21	-11465.75
3	4	-836.46	2216.18	-17.61	-938.97	-77.95	10832.20

Combination No. 557

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.39	2316.31	-9.91	-836.35	100.56	-10910.63
3	4	-823.22	2073.91	-17.63	-938.26	-78.61	11005.10

Combination No. 558

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.99	2185.35	-10.38	-1132.86	98.25	-10578.11
3	4	-790.52	2047.41	-18.34	-1221.77	-88.01	10398.07

Combination No. 559

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.48	2202.09	-10.66	-562.65	111.21	-10665.19
3	4	-797.01	2058.30	-18.06	-680.02	-75.05	10498.35


Combination No. 560

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.63	2223.89	-10.14	-531.17	111.18	-10509.25
3	4	-791.46	2027.38	-17.40	-656.41	-67.99	10489.78

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Date	

Combination No. 561

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.49	2205.88	-9.72	-1098.13	91.45	-10431.32
3	4	-785.32	2018.30	-17.83	-1180.02	-87.72	10390.42

Combination No. 562

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.07	2256.15	-3.39	-468.94	61.79	-10323.53
3	4	-787.17	2003.84	-11.20	-572.97	-39.27	10504.51

Combination No. 563

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.98	2177.30	-3.63	-226.32	73.09	-10048.91
3	4	-764.08	1973.72	-10.95	-355.17	-27.97	10112.55

Combination No. 564

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.03	2044.43	-3.41	-467.87	62.76	-10831.61
3	4	-787.13	2215.56	-11.17	-574.04	-38.29	9995.23

Combination No. 565

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.98	2044.30	-3.16	-250.07	51.47	-10440.34
3	4	-764.07	2136.71	-11.42	-331.42	-49.59	9720.96

Combination No. 566

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.80	2114.37	-9.83	-547.07	96.70	-10936.06
3	4	-801.63	2136.91	-17.71	-640.51	-82.46	10356.59

Combination No. 567

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.08	2102.73	-10.01	-1083.16	105.08	-10834.06
3	4	-794.91	2121.46	-17.53	-1194.99	-74.09	10264.64

Combination No. 568

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.08	2156.81	-10.00	-915.77	104.66	-11254.17
3	4	-823.76	2178.06	-17.54	-1026.69	-74.50	10677.23

Combination No. 569

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	741.24	1959.71	6.27	195.19	-2.26	-9801.44
3	4	-730.10	2045.48	-2.00	104.90	10.29	9310.41

Combination No. 570

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.40	1974.05	6.09	66.46	6.30	-10016.50
3	4	-742.25	2096.52	-1.82	-42.63	18.85	9446.22


Combination No. 571

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.58	2221.76	-9.95	-918.50	102.17	-11068.38

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-823.42	2113.11	-17.59	-1023.95	-76.99	10853.00

Combination No. 572

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.14	2080.43	-9.81	-627.53	95.78	-11039.90
3	4	-799.97	2216.67	-17.73	-718.93	-83.39	10204.84

Combination No. 573

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.36	2178.28	-9.84	-1008.14	96.97	-10923.59
3	4	-810.19	2101.25	-17.71	-1102.17	-82.19	10615.93

Combination No. 574

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.05	2315.34	-9.96	-778.97	102.55	-10906.38
3	4	-822.88	2073.42	-17.59	-885.26	-76.61	10999.56

Combination No. 575

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.80	2249.09	-9.83	-1008.50	96.65	-10546.42
3	4	-795.63	2030.44	-17.71	-1101.81	-82.52	10572.86


Combination No. 576

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	843.26	2148.29	-9.93	-701.02	101.19	-11293.88
3	4	-824.09	2194.65	-17.62	-804.32	-77.97	10646.93

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 123
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		www.bentley.com
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Combination No. 577

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 577

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.23	2144.06	-9.81	-627.34	95.95	-11080.90
3	4	-813.06	2153.04	-17.73	-719.12	-83.22	10541.70

Combination No. 578

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 578

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.50	2133.62	6.10	65.65	5.56	-9670.52
3	4	-742.35	1936.95	-1.83	-41.81	18.11	9795.18

Combination No. 579

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 579

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	738.95	2072.62	6.26	-60.89	-1.78	-9508.02
3	4	-727.80	1919.82	-1.99	-152.23	10.77	9537.63

Combination No. 580

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 580

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	844.68	2217.65	-10.00	-697.06	104.80	-11123.79
3	4	-825.51	2125.28	-17.54	-808.28	-74.37	10858.12

Combination No. 581

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 581

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	820.32	2176.39	-10.01	-538.10	104.87	-10759.27
3	4	-801.15	2074.89	-17.54	-649.47	-74.30	10519.53

Combination No. 582

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 582


Combination No. 582

Combination No. 582

Combination No. 582

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 124
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		www.bentley.com
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Combination No. 583

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 583

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.52	2161.13	-9.84	-1091.60	97.39	-10665.94
3	4	-794.35	2063.05	-17.70	-1186.55	-81.77	10416.59

Combination No. 584

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 584

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.83	2255.33	-3.43	-423.32	63.91	-10320.62
3	4	-786.93	2003.52	-11.15	-532.01	-37.15	10500.29

Combination No. 585

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 585

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	854.97	2254.59	-9.92	-836.04	100.84	-11235.67
3	4	-835.81	2135.62	-17.62	-938.57	-78.32	11043.36

Combination No. 586

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 586

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.90	2112.05	23.51	1547.10	-145.12	-10695.05
3	4	-875.42	2342.55	24.63	1554.84	146.14	11570.89

Combination No. 587

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 587

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	777.70	2096.19	24.00	1328.16	-144.22	-10024.59
3	4	-840.53	2200.96	25.31	1325.99	154.13	11229.67

Combination No. 588

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 588


Combination No. 588

Combination No. 588

Combination No. 588

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	125
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
Version: 12.01.00.57 www.bentley.com		Checked	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-846.93	2217.05	25.09	1893.02	144.07	11316.91

Combination No. 588
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.52	2240.63	23.52	1546.45	-145.71	-10579.47
3	4	-890.04	2213.97	24.62	1555.49	145.54	12108.44

Combination No. 589
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.19	2065.52	23.73	1828.95	-155.74	-10180.74
3	4	-843.72	2250.14	24.40	1860.03	135.51	11169.89

Combination No. 590
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.96	2056.45	23.31	1305.34	-136.01	-10079.62
3	4	-837.49	2232.12	24.83	1293.07	155.25	11091.25

Combination No. 591
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	826.20	2169.17	23.51	1546.81	-145.39	-10757.42
3	4	-888.73	2285.43	24.63	1555.13	145.87	11892.47

Combination No. 592
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.96	2311.44	23.52	1546.09	-146.04	-10202.30
3	4	-875.48	2143.15	24.61	1555.85	145.22	12065.37

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	126
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
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Combination No. 593
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.26	2180.26	24.24	1315.90	-155.39	-9863.28
3	4	-843.08	2116.88	25.07	1338.25	142.97	11464.87

Combination No. 594
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	786.75	2197.00	23.96	1886.11	-142.43	-9950.36
3	4	-849.58	2127.77	25.35	1880.00	155.93	11565.15

Combination No. 595
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.20	2219.02	23.30	1851.28	-135.42	-9800.92
3	4	-843.73	2096.63	24.84	1837.70	155.84	11550.06

Combination No. 596
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.06	2201.01	23.72	1284.32	-155.15	-9722.99
3	4	-837.59	2087.55	24.42	1314.09	136.11	11450.70


Combination No. 597
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.90	2253.70	17.00	1184.09	-107.33	-9686.69
3	4	-836.16	2070.67	18.18	1196.10	105.82	11493.01

Combination No. 598
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	127
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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.81	2174.88	16.76	1426.71	-96.03	-9412.07
3	4	-813.07	2040.55	18.42	1413.90	117.12	11101.05

Combination No. 599

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.86	2041.97	16.98	1185.17	-106.35	-10194.77
3	4	-836.12	2282.40	18.20	1195.03	106.80	10983.73

Combination No. 600

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	753.80	2011.85	17.22	1402.97	-117.65	-9803.50
3	4	-813.06	2203.55	17.95	1437.65	95.50	10709.46

Combination No. 601

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.37	2109.50	23.61	1835.38	-149.89	-10227.73
3	4	-853.90	2206.16	24.53	1853.60	141.36	11416.87

Combination No. 602

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.65	2097.86	23.43	1299.29	-141.52	-10125.73
3	4	-847.18	2190.71	24.71	1299.12	149.74	11324.91


Combination No. 603

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.50	2151.94	23.44	1466.68	-141.93	-10545.84

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	128
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-876.03	2247.31	24.70	1467.42	149.32	11737.50

Combination No. 604

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	719.81	1960.76	7.67	787.26	-58.68	-9268.58
3	4	-774.31	2108.81	8.65	819.36	40.86	10194.52

Combination No. 605

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	731.96	1975.10	7.49	658.53	-50.12	-9483.64
3	4	-786.47	2159.85	8.84	671.84	49.42	10330.33

Combination No. 606

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.15	2216.89	23.49	1463.95	-144.42	-10360.05
3	4	-875.68	2182.36	24.65	1470.15	146.83	11913.27

Combination No. 607

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.71	2075.57	23.63	1754.92	-150.82	-10331.58
3	4	-852.24	2285.92	24.51	1775.18	140.44	11265.11


Combination No. 608

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.92	2173.41	23.60	1374.31	-149.62	-10215.26
3	4	-862.45	2170.50	24.53	1391.94	141.63	11676.20

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Combination No. 609
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.62	2310.47	23.48	1603.48	-144.04	-10198.05
3	4	-875.14	2142.67	24.66	1608.85	147.21	12059.83

Combination No. 610
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.37	2244.22	23.61	1373.95	-149.95	-9838.09
3	4	-847.89	2099.69	24.53	1392.30	141.31	11633.13

Combination No. 611
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.83	2143.42	23.51	1681.42	-145.41	-10585.55
3	4	-876.35	2263.89	24.63	1689.79	145.85	11707.20

Combination No. 612
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.80	2139.19	23.62	1755.10	-150.65	-10372.57
3	4	-865.33	2222.29	24.51	1774.99	140.61	11601.97


Combination No. 613
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	732.07	2134.67	7.51	657.72	-50.86	-9137.67
3	4	-786.57	2000.28	8.82	672.65	48.68	10679.29

Combination No. 614
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	130
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	717.52	2073.67	7.66	531.18	-58.20	-8975.17
3	4	-772.02	1983.15	8.66	562.23	41.34	10421.74

Combination No. 615
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.25	2212.78	23.43	1685.38	-141.80	-10415.47
3	4	-877.78	2194.53	24.70	1685.83	149.46	11918.39

Combination No. 616
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.89	2171.52	23.43	1844.34	-141.73	-10050.94
3	4	-853.42	2144.14	24.70	1844.64	149.53	11579.80

Combination No. 617
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.09	2156.26	23.59	1290.85	-149.21	-9957.61
3	4	-846.62	2132.30	24.54	1307.56	142.05	11476.86

Combination No. 618
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.65	2252.87	16.95	1229.71	-105.21	-9683.78
3	4	-835.91	2070.36	18.22	1237.05	107.95	11488.79

Combination No. 619
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.54	2249.73	23.52	1546.41	-145.76	-10827.34

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-888.07	2204.87	24.62	1555.54	145.50	12103.63

Combination No. 620
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.89	2092.23	19.37	1402.30	-131.14	-10538.23
3	4	-859.78	2297.99	22.70	1439.30	126.15	11346.15

Combination No. 621
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	766.69	2076.36	19.87	1183.36	-130.24	-9867.77
3	4	-824.88	2156.40	23.38	1210.45	134.15	11004.92

Combination No. 622
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.10	2087.90	20.09	1728.29	-140.30	-9965.48
3	4	-831.29	2172.48	23.16	1777.48	124.09	11092.17

Combination No. 623
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.51	2220.81	19.38	1401.65	-131.73	-10422.65
3	4	-874.40	2169.41	22.68	1439.95	125.56	11883.70

Combination No. 624
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.18	2045.70	19.60	1684.15	-141.76	-10023.93
3	4	-828.07	2205.58	22.47	1744.49	115.53	10945.14

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Date	

Combination No. 625
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	763.95	2036.63	19.18	1160.54	-122.03	-9922.80
3	4	-821.84	2187.56	22.89	1177.52	135.26	10866.50

Combination No. 626
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.19	2149.35	19.38	1402.01	-131.41	-10600.60
3	4	-873.08	2240.86	22.69	1439.59	125.89	11667.72

Combination No. 627
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.95	2291.62	19.39	1401.29	-132.06	-10045.48
3	4	-859.84	2098.59	22.68	1440.31	125.23	11840.63

Combination No. 628
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	769.25	2160.44	20.11	1171.10	-141.41	-9706.46
3	4	-827.44	2072.32	23.14	1222.71	122.99	11240.12


Combination No. 629
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.74	2177.18	19.83	1741.30	-128.45	-9793.55
3	4	-833.93	2083.21	23.42	1764.46	135.94	11340.40

Combination No. 630
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.19	2199.20	19.16	1706.48	-121.44	-9644.10
3	4	-828.08	2052.07	22.91	1722.16	135.86	11325.31

Combination No. 631

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	764.05	2181.19	19.59	1139.52	-141.17	-9566.17
3	4	-821.94	2042.99	22.48	1198.55	116.12	11225.95

Combination No. 632

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.89	2233.87	12.87	1039.29	-93.35	-9529.87
3	4	-820.52	2026.11	16.24	1080.56	85.84	11268.26

Combination No. 633

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	742.80	2155.03	12.62	1281.91	-82.05	-9255.25
3	4	-797.42	1995.99	16.49	1298.36	97.13	10876.30

Combination No. 634

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.85	2022.15	12.85	1040.36	-92.37	-10037.95
3	4	-820.47	2237.84	16.26	1079.49	86.81	10758.98


Combination No. 635

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	742.79	1992.03	13.09	1258.17	-103.67	-9646.69

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-797.42	2158.99	16.02	1322.10	75.52	10484.71

Combination No. 636

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.36	2089.68	19.48	1690.58	-135.91	-10070.92
3	4	-838.26	2161.60	22.59	1738.06	121.38	11192.12

Combination No. 637

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.64	2078.04	19.29	1154.49	-127.54	-9968.91
3	4	-831.54	2146.15	22.77	1183.58	129.75	11100.16

Combination No. 638

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.49	2132.12	19.30	1321.88	-127.95	-10389.02
3	4	-860.38	2202.75	22.77	1351.88	129.34	11512.76

Combination No. 639

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	708.80	1940.94	3.54	642.46	-44.70	-9111.76
3	4	-758.67	2064.24	6.72	703.82	20.88	9969.77


Combination No. 640

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	720.96	1955.28	3.36	513.73	-36.14	-9326.82
3	4	-770.83	2115.29	6.90	556.30	29.43	10105.59

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 641
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.15	2197.07	19.36	1319.14	-130.44	-10203.24
3	4	-860.04	2137.80	22.71	1354.61	126.85	11689.52

Combination No. 642
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	778.70	2055.74	19.50	1610.12	-136.84	-10174.76
3	4	-836.60	2241.36	22.57	1659.64	120.45	11040.36

Combination No. 643
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.92	2153.59	19.47	1229.51	-135.64	-10058.45
3	4	-846.81	2125.94	22.60	1276.40	121.65	11451.45

Combination No. 644
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.61	2290.65	19.35	1458.68	-130.06	-10041.23
3	4	-859.50	2098.11	22.72	1493.31	127.23	11835.08


Combination No. 645
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.36	2224.40	19.48	1229.15	-135.97	-9681.27
3	4	-832.25	2055.12	22.59	1276.76	121.32	11408.38

Combination No. 646
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.82	2123.60	19.38	1536.62	-131.43	-10428.73
3	4	-860.71	2219.33	22.69	1574.25	125.87	11482.45

Combination No. 647
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.79	2119.37	19.49	1610.30	-136.67	-10215.75
3	4	-849.69	2177.73	22.58	1659.45	120.62	11377.22

Combination No. 648
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	721.06	2114.85	3.37	512.92	-36.88	-8980.85
3	4	-770.93	1955.72	6.89	557.11	28.69	10454.54

Combination No. 649
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	706.51	2053.85	3.53	386.38	-44.22	-8818.35
3	4	-756.38	1938.59	6.73	446.69	21.35	10196.99

Combination No. 650
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.24	2192.96	19.30	1540.58	-127.82	-10258.65
3	4	-862.13	2149.97	22.77	1570.29	129.47	11693.64

Combination No. 651
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.88	2151.70	19.30	1699.54	-127.75	-9894.12

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-837.78	2099.58	22.77	1729.09	129.54	111355.06

Combination No. 652

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.08	2136.44	19.46	1146.05	-135.23	-9800.79
3	4	-830.98	2087.74	22.61	1192.02	122.07	11252.11

Combination No. 653

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.65	2233.05	12.82	1084.91	-91.22	-9526.96
3	4	-820.27	2025.80	16.29	1121.51	87.96	11264.04

Combination No. 654

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	814.53	2229.90	19.39	1407.61	-131.77	-10370.52
3	4	-872.43	2160.31	22.68	1440.00	125.52	11878.88

Combination No. 655

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.66	2093.31	14.50	1231.14	-113.69	-10575.67
3	4	-858.24	2296.91	20.12	1299.26	102.07	11310.54


Combination No. 656

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	768.47	2077.45	14.99	1012.19	-112.79	-9905.21
3	4	-823.34	2155.32	20.80	1070.40	110.07	10969.32

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 657

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.87	2088.99	15.21	1557.12	-122.86	-10002.92
3	4	-829.75	2171.40	20.59	1637.43	100.01	11056.56

Combination No. 658

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.28	2221.89	14.51	1230.49	-114.28	-10460.09
3	4	-872.86	2168.32	20.11	1299.91	101.48	11848.08

Combination No. 659

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	771.95	2046.78	14.73	1512.99	-124.32	-10061.37
3	4	-826.53	2204.50	19.89	1604.44	91.45	10909.53

Combination No. 660

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.72	2037.71	14.30	989.38	-104.58	-9960.24
3	4	-820.31	2186.47	20.32	1037.48	111.18	10830.89

Combination No. 661

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.96	2150.43	14.50	1230.85	-113.96	-10638.04
3	4	-871.54	2239.78	20.12	1299.55	101.81	11632.11

Combination No. 662

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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File Name: Pier 12 Straddle.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.72	2292.70	14.52	1230.13	-114.61	-10082.92
3	4	-858.30	2097.51	20.10	1300.27	101.15	11805.01

Combination No. 663
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	771.52	2161.53	15.24	999.93	-123.96	-9743.90
3	4	-825.90	2071.24	20.56	1082.66	98.91	11204.51

Combination No. 664
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	777.52	2178.26	14.96	1570.14	-111.00	-9830.99
3	4	-832.39	2082.13	20.84	1624.41	111.86	11304.79

Combination No. 665
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	771.96	2200.29	14.29	1535.31	-103.99	-9681.54
3	4	-826.54	2050.99	20.33	1582.12	111.77	11289.70

Combination No. 666
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.82	2182.27	14.71	968.35	-123.72	-9603.61
3	4	-820.40	2041.91	19.91	1058.50	92.04	11190.34

Combination No. 667
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	767.66	2234.96	7.99	868.13	-75.90	-9567.31

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-818.98	2025.03	13.67	940.52	61.76	11232.65

Combination No. 668
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	744.57	2156.11	7.75	1110.75	-64.60	-9292.69
3	4	-795.88	1994.91	13.91	1158.32	73.05	10840.69

Combination No. 669
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	767.62	2023.24	7.97	869.20	-74.92	-10075.39
3	4	-818.94	2236.75	13.69	939.44	62.73	10723.37

Combination No. 670
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	744.57	1993.11	8.21	1087.00	-86.22	-9684.12
3	4	-795.88	2157.91	13.45	1182.06	51.43	10449.10

Combination No. 671
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.14	2090.76	14.60	1519.42	-118.46	-10108.35
3	4	-836.72	2160.52	20.02	1598.02	97.30	11156.51

Combination No. 672
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.42	2079.12	14.42	983.33	-110.09	-10006.35
3	4	-830.00	2145.06	20.20	1043.53	105.67	11064.55

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 673			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.26	2133.20	14.43	1150.72	-110.51	-10426.46
3	4	-858.84	2201.67	20.19	1211.83	105.26	11477.14

Combination No. 674			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	710.57	1942.02	-1.33	471.30	-27.25	-9149.20
3	4	-757.13	2063.16	4.14	563.78	-3.21	9934.17

Combination No. 675			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	722.73	1956.36	-1.52	342.57	-18.69	-9364.26
3	4	-769.29	2114.21	4.33	416.25	5.35	10069.98

Combination No. 676			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.92	2198.15	14.48	1147.98	-113.00	-10240.68
3	4	-858.50	2136.72	20.14	1214.57	102.77	11652.91


Combination No. 677			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.48	2056.83	14.62	1438.95	-119.39	-10212.20
3	4	-835.06	2240.28	20.00	1519.59	96.37	111004.75

Combination No. 678			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.69	2154.67	14.59	1058.35	-118.20	-10095.89
3	4	-845.27	2124.86	20.03	1136.36	97.57	11415.84

Combination No. 679			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.38	2291.73	14.47	1287.52	-112.61	-10078.67
3	4	-857.96	2097.03	20.15	1353.26	103.15	11799.47

Combination No. 680			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.13	2225.48	14.60	1057.99	-118.52	-9718.71
3	4	-830.71	2054.04	20.02	1136.72	97.24	11372.77

Combination No. 681			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.59	2124.68	14.50	1365.46	-113.98	-10466.17
3	4	-859.17	2218.25	20.12	1434.20	101.79	11446.84

Combination No. 682			
Group Id: STR GP 5 Name: STRENGTH GROUP V			


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.57	2120.45	14.62	1439.14	-119.22	-10253.19
3	4	-848.15	2176.65	20.00	1519.41	96.54	11341.61

Combination No. 683			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	722.83	2115.94	-1.50	341.76	-19.43	-9018.29

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 143	
		Job # 59219	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-769.39	1954.64	4.31	417.07	4.61	10418.94

Combination No. 684

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	708.28	2054.93	-1.34	215.22	-26.77	-8855.79
3	4	-754.84	1937.50	4.15	306.65	-2.73	10161.39

Combination No. 685

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.01	2194.04	14.42	1369.42	-110.37	-10296.09
3	4	-860.59	2148.89	20.19	1430.24	105.39	11658.03

Combination No. 686

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.66	2152.78	14.42	1528.38	-110.30	-9931.56
3	4	-836.24	2098.50	20.20	1589.05	105.46	11319.45

Combination No. 687

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	774.86	2137.52	14.58	974.88	-117.78	-9838.23
3	4	-829.44	2086.66	20.03	1051.97	97.99	11216.50


Combination No. 688

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	767.42	2234.13	7.95	913.75	-73.78	-9564.40
3	4	-818.73	2024.72	13.71	981.47	63.88	11228.43

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Checked	
		Date	

Combination No. 689
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.31	2230.99	14.51	1230.45	-114.33	-10407.96
3	4	-870.89	2159.23	20.11	1299.95	101.44	11843.27

Combination No. 690

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.49	2095.88	11.34	1126.15	-104.19	-10676.43
3	4	-854.30	2294.34	18.75	1218.21	87.50	11216.79

Combination No. 691

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	773.30	2080.01	11.84	907.20	-103.29	-10005.97
3	4	-819.40	2152.75	19.43	989.35	95.50	10875.57

Combination No. 692

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.70	2091.55	12.06	1452.13	-113.36	-10103.68
3	4	-825.80	2168.83	19.21	1556.38	85.43	10962.81

Combination No. 693

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.11	2224.46	11.35	1125.50	-104.78	-10560.85
3	4	-868.91	2165.76	18.74	1218.85	86.90	11754.34

Combination No. 694

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Job # 59219	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.78	2049.35	11.57	1408.00	-114.82	-10162.13
3	4	-822.59	2201.93	18.52	1523.39	76.87	10815.78

Combination No. 695

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 695

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.56	2040.28	11.14	884.38	-95.08	-10061.00
3	4	-816.36	2183.91	18.95	956.43	96.61	10737.14

Combination No. 696

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 696

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	821.79	2153.00	11.35	1125.86	-104.46	-10738.80
3	4	-867.60	2237.21	18.74	1218.50	87.23	11538.37

Combination No. 697

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 697

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.55	2295.27	11.36	1125.14	-105.11	-10183.68
3	4	-854.36	2094.94	18.73	1219.21	86.58	11711.27

Combination No. 698

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 698

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.86	2164.09	12.08	894.94	-114.46	-9844.66
3	4	-821.96	2068.67	19.19	1001.61	84.33	11110.76

Combination No. 699


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 699

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.35	2180.83	11.80	1465.15	-101.50	-9931.75

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-828.45	2079.56	19.47	1543.36	97.29	11211.04

Combination No. 700

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 700

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	776.80	2202.85	11.13	1430.32	-94.49	-9782.30
3	4	-822.60	2048.42	18.96	1501.06	97.20	11195.95

Combination No. 701

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 701

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.65	2184.84	11.56	863.36	-114.22	-9704.37
3	4	-816.46	2039.34	18.53	977.45	77.47	11096.59

Combination No. 702

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 702

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	772.50	2237.52	4.84	763.14	-66.40	-9668.07
3	4	-815.03	2022.46	12.29	859.46	47.18	11138.91

Combination No. 703

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 703

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.40	2158.68	4.59	1005.76	-55.10	-9393.45
3	4	-791.94	1992.34	12.54	1077.26	58.48	10746.95

Combination No. 704


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 704

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	772.45	2025.80	4.81	764.21	-65.42	-10176.15
3	4	-814.99	2234.18	12.32	858.39	48.16	10629.63


Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219				
		Designed CAM					
		Date	9/10/14				
		Checked					
		Date					
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File Name: Pier 12 Straddle.rcp							
Combination No. 705							
Group Id: STR GP 5 Name: STRENGTH GROUP V							
Combination No. 705							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.40	1995.68	5.06	982.01	-76.72	-9784.88
3	4	-791.93	2155.34	12.07	1101.01	36.86	10355.36
Combination No. 706							
Group Id: STR GP 5 Name: STRENGTH GROUP V							
Combination No. 706							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	786.97	2093.33	11.44	1414.42	-108.96	-10209.12
3	4	-832.77	2157.95	18.65	1516.96	82.72	11062.76
Combination No. 707							
Group Id: STR GP 5 Name: STRENGTH GROUP V							
Combination No. 707							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.25	2081.69	11.26	878.33	-100.59	-10107.11
3	4	-826.05	2142.50	18.83	962.48	91.10	10970.80
Combination No. 708							
Group Id: STR GP 5 Name: STRENGTH GROUP V							
Combination No. 708							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.10	2135.77	11.27	1045.73	-101.01	-10527.22
3	4	-854.90	2199.10	18.82	1130.78	90.68	11383.40
Combination No. 709							
Group Id: STR GP 5 Name: STRENGTH GROUP V							
Combination No. 709							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	715.40	1944.59	-4.49	366.31	-17.75	-9249.96
3	4	-753.19	2060.59	2.77	482.72	-17.78	9840.42
Combination No. 710							
Group Id: STR GP 5 Name: STRENGTH GROUP V							

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 148

Job # 59219

Designed CAM

Date 9/10/14

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Combination No. 711

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	727.56	1958.93	-4.67	237.58	-9.19	-9465.02
3	4	-765.34	2111.64	2.95	335.20	-9.22	9976.23

Combination No. 712

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.75	2200.72	11.33	1042.99	-103.50	-10341.44
3	4	-854.55	2134.15	18.76	1133.52	88.19	11559.17

Combination No. 713

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.31	2059.40	11.46	1333.96	-109.89	-10312.96
3	4	-831.11	2237.71	18.63	1438.54	81.80	10911.00

Combination No. 714

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.52	2157.24	11.44	953.36	-108.70	-10196.65
3	4	-841.32	2122.29	18.65	1055.30	82.99	11322.09

Combination No. 715

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.21	2294.30	11.32	1182.52	-103.11	-10179.43
3	4	-854.02	2094.46	18.77	1272.21	88.58	11705.72


Combination No. 716

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	750.96	2228.05	11.45	953.00	-109.02	-9819.47

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-826.76	2051.47	18.64	1055.66	82.67	11279.02

Combination No. 716

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.42	2127.25	11.35	1260.47	-104.48	-10566.93
3	4	-855.22	2215.68	18.74	1353.15	87.21	11353.10

Combination No. 717

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.40	2123.02	11.46	1334.15	-109.72	-10353.95
3	4	-844.20	2174.08	18.63	1438.35	81.97	11247.87

Combination No. 718

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	727.66	2118.50	-4.66	236.77	-9.93	-9119.05
3	4	-765.44	1952.07	2.94	336.01	-9.96	10325.19

Combination No. 719

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	713.11	2057.50	-4.50	110.22	-17.27	-8956.55
3	4	-750.89	1934.94	2.78	225.59	-17.30	10067.64


Combination No. 720

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.85	2196.61	11.27	1264.43	-100.87	-10396.85
3	4	-856.65	2146.32	18.82	1349.19	90.82	11564.29

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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Combination No. 721

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	786.49	2155.35	11.27	1423.39	-100.80	-10032.32
3	4	-832.29	2095.93	18.82	1508.00	90.89	11225.70

Combination No. 722

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.49	2140.09	11.43	869.89	-108.28	-9938.99
3	4	-825.49	2084.09	18.66	970.92	83.41	11122.75

Combination No. 723

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	772.25	2236.70	4.79	808.76	-64.28	-9665.16
3	4	-814.78	2022.15	12.34	900.42	49.31	11134.69

Combination No. 724

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	821.14	2233.55	11.35	1125.45	-104.83	-10508.72
3	4	-866.94	2156.66	18.74	1218.90	86.86	11749.53

Combination No. 725

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.58	2100.76	10.41	1100.75	-103.14	-10868.74
3	4	-846.50	2289.45	18.60	1203.25	84.26	11034.68

Combination No. 726

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.39	2084.90	10.90	881.80	-102.24	-10198.28
3	4	-811.60	2147.87	19.28	974.40	92.26	10693.46

Combination No. 727

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.80	2096.44	11.12	1426.73	-112.30	-10295.98
3	4	-818.00	2163.95	19.07	1541.42	82.20	10780.70

Combination No. 728

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.20	2229.34	10.42	1100.10	-103.73	-10753.16
3	4	-861.11	2160.87	18.59	1203.90	83.67	11572.23

Combination No. 729

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.88	2054.23	10.64	1382.60	-113.76	-10354.43
3	4	-814.79	2197.05	18.37	1508.43	73.64	10633.67

Combination No. 730

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.65	2045.16	10.21	858.98	-94.03	-10253.31
3	4	-808.56	2179.02	18.80	941.47	93.37	10555.03


Combination No. 731

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.89	2157.88	10.41	1100.46	-103.40	-10931.11

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219
		Designed CAM
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File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-859.80	2232.33	18.60	1203.54	84.00	11356.26

Combination No. 732

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.64	2300.15	10.43	1099.74	-104.06	-10375.99
3	4	-846.56	2090.06	18.58	1204.26	83.34	11529.16

Combination No. 733

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.95	2168.98	11.15	869.54	-113.40	-10036.97
3	4	-814.16	2063.79	19.04	986.65	81.10	10928.65

Combination No. 734

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.44	2185.71	10.87	1439.75	-100.45	-10124.05
3	4	-820.65	2074.68	19.32	1528.40	94.06	11028.93

Combination No. 735

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.89	2207.74	10.20	1404.92	-93.43	-9974.61
3	4	-814.80	2043.54	18.81	1486.11	93.97	11013.84


Combination No. 736

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.74	2189.73	10.62	837.96	-113.17	-9896.68
3	4	-808.66	2034.46	18.39	962.49	74.23	10914.48

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 153
		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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		Checked
		Date

Combination No. 737	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.59	2242.41	3.90	737.74	-45.35	-9860.38
3	4	-807.23	2017.58	12.15	844.51	43.95	10956.79

Combination No. 738	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.49	2163.56	3.66	980.36	-54.05	-9585.75
3	4	-784.14	1987.46	12.39	1062.31	55.25	10564.83

Combination No. 739	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.55	2030.69	3.88	738.81	-64.37	-10368.46
3	4	-807.19	2229.30	12.17	843.43	44.93	10447.51

Combination No. 740	
Group Id: STR GP 5 Name: STRENGTH GROUP V	


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	758.49	2000.56	4.12	956.61	-75.67	-9977.19
3	4	-784.13	2150.46	11.93	1086.05	33.63	10173.24

Combination No. 741	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.06	2098.21	10.51	1389.02	-107.91	-10401.42
3	4	-824.97	2153.06	18.50	1502.01	79.49	10880.65

Combination No. 742	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Units: US (English)	
Design Code: AASHTO LRFD	

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		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.34	2086.57	10.33	852.93	-99.54	-10299.42
3	4	-818.25	2137.61	18.68	947.52	87.86	10788.69

Combination No. 743	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.19	2140.65	10.34	1020.33	-99.95	-10719.53
3	4	-847.10	2194.22	18.67	1115.83	87.45	11201.29

Combination No. 744	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	724.50	1949.48	-5.42	340.91	-16.70	-9442.27
3	4	-745.38	2055.71	2.62	467.77	-21.01	9658.31

Combination No. 745	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	736.65	1963.82	-5.61	212.18	-8.14	-9657.33
3	4	-757.54	2106.76	2.81	320.24	-12.45	9794.12


Combination No. 746	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.84	2205.60	10.39	1017.59	-102.44	-10533.74
3	4	-846.75	2129.27	18.62	1118.56	84.96	11377.06

Combination No. 747	
Group Id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.40	2064.28	10.53	1308.56	-108.84	-10505.26

Units: US (English)	
Design Code: AASHTO LRFD	

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-823.31	2232.82	18.48	1423.58	78.56	10728.89

Combination No. 748
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.61	2162.12	10.50	927.96	-107.64	-10388.95
3	4	-833.52	2117.40	18.51	1040.35	79.76	11139.98

Combination No. 749
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.30	2299.18	10.38	1157.12	-102.06	-10371.73
3	4	-846.22	2089.57	18.63	1257.25	85.34	11523.61

Combination No. 750
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.05	2232.93	10.51	927.60	-107.97	-10011.78
3	4	-818.96	2046.59	18.50	1040.71	79.43	11096.91

Combination No. 751
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.51	2132.13	10.41	1235.07	-103.42	-10759.23
3	4	-847.42	2210.80	18.60	1338.19	83.98	11170.98

Combination No. 752
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	807.49	2127.91	10.53	1308.75	-108.67	-10546.26
3	4	-836.40	2169.20	18.48	1423.40	78.73	11065.76

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Combination No. 753
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	736.75	2123.39	5.59	211.37	-8.88	-9311.35
3	4	-757.64	1947.18	2.79	321.06	-13.19	10143.08

Combination No. 754
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	722.20	2062.39	5.43	84.82	-16.22	-9748.85
3	4	-743.09	1930.05	2.63	210.64	-20.54	9885.53

Combination No. 755
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.94	2201.50	10.34	1239.03	-99.82	-10589.15
3	4	-848.85	2141.44	18.67	1334.23	87.58	11382.17

Combination No. 756
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.58	2160.23	10.33	1397.99	-99.75	-10224.63
3	4	-824.49	2091.04	18.68	1493.04	87.65	11043.59


Combination No. 757
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.78	2144.98	10.50	844.49	-107.22	-10131.30
3	4	-817.69	2079.21	18.52	955.97	80.18	10940.64

Combination No. 758
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	781.34	2241.58	3.86	783.36	-63.22	-9857.46
3	4	-806.98	2017.27	12.19	885.46	46.07	10952.57

Combination No. 759

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.23	2238.44	10.42	1100.05	-103.77	-10701.02
3	4	-859.14	2151.77	18.59	1203.94	83.63	11567.41

Combination No. 760

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.14	2103.45	9.87	1072.84	-98.47	-10982.32
3	4	-842.31	2286.76	17.67	1170.16	80.69	10931.99

Combination No. 761

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.94	2087.59	10.37	853.89	-97.57	-10311.86
3	4	-807.41	2145.17	18.35	941.31	88.69	10590.77

Combination No. 762

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.35	2099.13	10.58	1398.82	-107.63	-10409.57
3	4	-813.82	2161.26	18.14	1508.33	78.63	10678.01


Combination No. 763

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.76	2232.03	9.88	1072.19	-99.06	-10866.74

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-856.93	2158.18	17.66	1170.81	80.10	11469.54

Combination No. 764

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.43	2056.92	10.10	1354.69	-109.09	-10468.02
3	4	-810.60	2194.35	17.44	1475.34	70.07	10530.99

Combination No. 765

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.20	2047.85	9.67	831.07	-89.36	-10366.89
3	4	-804.37	2176.33	17.87	908.38	89.81	10452.35

Combination No. 766

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	836.44	2160.58	9.87	1072.55	-98.74	-11044.69
3	4	-855.61	2229.64	17.67	1170.45	80.43	11253.57

Combination No. 767

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.20	2302.85	9.89	1071.83	-99.39	-10489.57
3	4	-842.37	2087.37	17.65	1171.17	79.77	11426.47


Combination No. 768

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.50	2171.67	10.61	841.63	-108.74	-10150.55
3	4	-809.97	2061.09	18.11	953.57	77.53	10825.97

Units: US (English)

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Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Combination No. 769	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.99	2188.41	10.33	1411.84	-95.78	-10237.64
3	4	-816.46	2071.98	18.39	1495.32	90.49	10926.25

Combination No. 770	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.44	2210.43	9.66	1377.01	-88.77	-10088.19
3	4	-810.61	2040.84	17.88	1453.02	90.40	10911.16

Combination No. 771	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.30	2192.42	10.08	810.05	-108.50	-10010.26
3	4	-804.47	2031.76	17.46	929.41	70.66	10811.79

Combination No. 772	
Group id: STR GP 5 Name: STRENGTH GROUP V	


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.14	2245.10	3.36	709.83	-60.68	-9973.96
3	4	-803.04	2014.89	11.22	811.42	40.38	10854.11

Combination No. 773	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	764.05	2166.25	3.12	952.45	-49.38	-9699.34
3	4	-779.95	1984.76	11.46	1029.22	51.68	10462.15

Combination No. 774	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Units: US (English)	
Design Code: AASHTO LRFD	

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.10	2033.38	3.34	710.90	-59.70	-10482.04
3	4	-803.00	2226.61	11.24	810.34	41.36	10344.83

Combination No. 775	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	764.04	2003.26	3.59	928.70	-71.00	-10090.78
3	4	-779.95	2147.76	11.00	1052.96	30.06	10070.56

Combination No. 776	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.61	2100.91	9.97	1361.11	-103.24	-10515.01
3	4	-820.78	2150.37	17.57	1468.92	75.92	10777.96

Combination No. 777	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.89	2089.26	9.79	825.02	-94.87	-10413.00
3	4	-814.06	2134.92	17.75	914.43	84.30	10686.01


Combination No. 778	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.74	2143.35	9.80	992.42	-95.28	-10833.11
3	4	-842.91	2191.52	17.74	1082.74	83.88	11098.60

Combination No. 779	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	730.05	1952.17	-5.96	313.00	-12.03	-9555.85

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-741.20	2053.02	1.70	434.68	-24.58	9555.62

Combination No. 780

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	742.21	1966.51	-6.15	184.27	-3.47	-9770.91
3	4	-753.35	2104.06	1.88	287.15	-16.02	9691.43

Combination No. 781

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.40	2208.30	9.85	989.68	-97.77	-10647.33
3	4	-842.56	2126.57	17.69	1085.47	81.39	11274.37

Combination No. 782

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.95	2066.97	9.99	1280.65	-104.17	-10618.85
3	4	-819.12	2230.13	17.55	1390.49	74.99	10626.21

Combination No. 783

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.17	2164.82	9.96	900.05	-102.97	-10502.54
3	4	-829.34	2114.71	17.58	1007.26	76.19	11037.30


Combination No. 784

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.86	2301.88	9.84	1129.21	-97.39	-10485.32
3	4	-842.03	2086.88	17.70	1224.17	81.77	11420.93

Units: US (English)

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Combination No. 785

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 785

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.61	2235.63	9.97	899.69	-103.30	-10125.36
3	4	-814.78	2043.90	17.57	1007.62	75.86	10994.23

Combination No. 786

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 786

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.07	2134.83	9.87	1207.16	-98.76	-10872.82
3	4	-843.24	2208.11	17.67	1305.10	80.41	11068.30

Combination No. 787

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 787

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.04	2130.60	9.99	1280.84	-104.00	-10659.84
3	4	-832.21	2166.50	17.55	1390.31	75.16	10963.07

Combination No. 788

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 788

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	742.31	2126.08	-6.13	183.46	-4.21	-9424.94
3	4	-753.46	1944.49	1.86	287.97	-16.76	10040.39

Combination No. 789

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 789


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	727.76	2065.08	-5.97	56.91	-11.55	-9252.44
3	4	-738.91	1927.36	1.71	177.55	-24.11	9782.84

Combination No. 790

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.49	2204.19	9.80	1211.12	-95.15	-10702.74
3	4	-844.66	2138.74	17.75	1301.15	84.01	11279.49

Combination No. 791

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.33	2162.93	9.79	1370.08	-95.08	-10338.21
3	4	-820.30	2088.35	17.75	1459.95	84.08	10940.90

Combination No. 792

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.33	2147.67	9.96	816.58	-102.56	-10244.88
3	4	-813.50	2076.51	17.59	922.88	76.61	10837.96

Combination No. 793

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	786.90	2244.28	3.32	755.45	-58.55	-9971.05
3	4	-802.80	2014.57	11.27	852.37	42.50	10849.89

Combination No. 794

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.79	2241.13	9.88	1072.14	-99.10	-10814.61
3	4	-854.95	2149.08	17.66	1170.86	80.06	11464.73


Combination No. 795

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.00	2123.23	-37.00	-1834.72	214.10	-11026.49

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-860.23	2331.36	-35.03	-1806.71	-218.90	11238.15

Combination No. 796

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.10	2107.59	-37.69	-2119.98	222.05	-10362.53
3	4	-825.03	2189.56	-35.52	-2101.47	-218.06	10890.41

Combination No. 797

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.51	2119.13	-37.48	-1575.05	211.99	-10460.24
3	4	-831.44	2205.64	-35.73	-1534.44	-228.12	10977.65

Combination No. 798

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	842.62	2251.81	-36.99	-1835.37	213.51	-10910.92
3	4	-874.84	2202.78	-35.04	-1806.06	-219.49	11775.70

Combination No. 799

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.30	2076.70	-36.77	-1552.87	203.48	-10512.19
3	4	-828.52	2238.95	-35.26	-1501.52	-229.53	10837.14


Combination No. 800

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.07	2067.63	-37.20	-2076.48	223.22	-10411.06
3	4	-822.29	2220.93	-34.83	-2068.48	209.79	10758.51

Units: US (English)

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		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 801
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	841.31	2180.36	-37.00	-1835.01	213.84	-11088.87
3	4	-873.53	2274.24	-35.03	-1806.42	-219.17	11559.73

Combination No. 802
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.06	2322.63	-36.98	-1835.73	213.19	-10533.74
3	4	-860.29	2131.97	-35.05	-1805.70	-219.82	11732.63

Combination No. 803
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.66	2191.67	-37.45	-2132.24	210.88	-10201.22
3	4	-827.59	2105.48	-35.76	-2089.21	-229.22	11125.60

Combination No. 804
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.15	2208.40	-37.73	-1562.03	223.84	-10288.31
3	4	-834.08	2116.37	-35.48	-1547.46	-216.27	11225.88


Combination No. 805
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.31	2230.21	-37.21	-1530.55	223.81	-10132.37
3	4	-828.53	2085.45	-34.82	-1523.85	-209.20	11217.31

Combination No. 806
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.17	2212.20	-36.79	-2097.51	204.07	-10054.43
3	4	-822.39	2076.36	-35.24	-2047.46	-228.93	11117.95

Combination No. 807
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.75	2262.47	-30.46	-1468.32	174.42	-9946.64
3	4	-824.24	2061.90	-28.61	-1440.41	-180.48	11232.04

Combination No. 808
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.66	2183.62	-30.70	-1225.70	185.72	-9672.02
3	4	-801.15	2031.78	-28.37	-1222.61	-169.19	10840.08

Combination No. 809
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.71	2050.75	-30.48	-1467.24	175.39	-10454.72
3	4	-824.20	2273.62	-28.59	-1441.48	-179.51	10722.75

Combination No. 810
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	765.65	2020.62	-30.23	-1249.44	164.10	-10063.46
3	4	-801.14	2194.78	-28.84	-1198.86	-190.80	10448.49

Combination No. 811
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.48	2120.68	-36.90	-1546.44	209.33	-10559.18

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-838.70	2194.97	-35.13	-1507.95	-223.67	11084.12

Combination No. 812

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.76	2109.04	-37.08	-2082.53	217.71	-10457.17
3	4	-831.98	2179.52	-34.95	-2062.43	-215.30	10992.17

Combination No. 813

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.61	2163.13	-37.07	-1915.14	217.29	-10877.28
3	4	-860.83	2236.13	-34.96	-1894.13	-215.72	11404.76

Combination No. 814

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	726.92	1966.03	-20.80	-804.19	110.37	-9424.55
3	4	-767.16	2103.54	-19.42	-762.54	-130.92	10037.94

Combination No. 815

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	739.07	1980.37	-20.98	-932.91	118.93	-9639.61
3	4	-779.32	2154.59	-19.24	-910.07	-122.36	10173.75


Combination No. 816

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.26	2228.07	-37.02	-1917.88	214.80	-10691.50
3	4	-860.48	2171.18	-35.01	-1891.40	-218.21	11580.53

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Combination No. 817

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.82	2086.75	-36.88	-1626.91	208.40	-10663.02
3	4	-837.04	2274.73	-35.15	-1586.37	-224.60	10932.37

Combination No. 818

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.03	2184.60	-36.91	-2007.51	209.60	-10546.71
3	4	-847.25	2159.31	-35.12	-1969.61	-223.41	11343.45

Combination No. 819

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	827.72	2321.66	-37.03	-1778.34	215.18	-10529.49
3	4	-859.95	2131.48	-35.00	-1752.70	-217.82	11727.08

Combination No. 820

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.47	2255.41	-36.90	-2007.87	209.27	-10169.54
3	4	-832.69	2088.50	-35.13	-1969.25	-223.73	11300.38

Combination No. 821

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.93	2154.60	-37.00	-1700.40	213.82	-10916.99
3	4	-861.16	2252.71	-35.03	-1671.76	-219.19	11374.46

Combination No. 822

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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File Name: Pier 12 Straddle.rpt			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.91	2150.38	-36.88	-1626.72	208.58	-10704.01
3	4	-850.13	2211.11	-35.15	-1586.56	-224.43	11269.23

Combination No. 823

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	739.18	2139.94	-20.97	-933.72	118.19	-9293.64
3	4	-779.42	1995.01	-19.25	-909.26	-123.10	10522.71

Combination No. 824

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	724.62	2078.94	-20.81	-1060.27	110.84	-9131.14
3	4	-764.87	1977.88	-19.41	-1019.67	-130.45	10265.16

Combination No. 825

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.36	2223.97	-37.08	-1696.44	217.43	-10746.91
3	4	-862.58	2183.34	-34.96	-1675.72	-215.58	11585.65

Combination No. 826

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.00	2182.70	-37.08	-1537.48	217.50	-10382.38
3	4	-838.22	2132.95	-34.95	-1516.91	-215.51	11247.06


Combination No. 827

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	799.20	2167.45	-36.92	-2090.98	210.02	-10289.05

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-831.42	2121.11	-35.12	-2053.99	-222.99	11144.12

Combination No. 828

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.50	2261.64	-30.50	-1422.70	176.54	-9943.73
3	4	-823.99	2061.59	-28.57	-1399.45	-178.36	11227.82

Combination No. 829

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	840.65	2260.91	-36.99	-1835.42	213.47	-10858.78
3	4	-872.87	2193.68	-35.04	-1806.01	-219.54	11770.89

Combination No. 830

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.00	2103.41	-41.14	-1979.52	228.09	-10869.68
3	4	-844.58	2286.80	-36.96	-1922.25	-238.89	11013.40

Combination No. 831

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	782.10	2087.77	-41.83	-2264.78	236.03	-10205.71
3	4	-809.39	2145.00	-37.45	-2217.01	-238.05	10665.66


Combination No. 832

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.50	2099.31	-41.61	-1719.85	225.97	-10303.42
3	4	-815.79	2161.08	-37.67	-1649.99	-248.11	10752.90

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Combination No. 833
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.61	2231.99	-41.12	-1980.17	227.49	-10754.10
3	4	-859.20	2158.22	-36.98	-1921.60	-239.48	11550.95

Combination No. 834
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.29	2056.88	-40.91	-1697.67	217.46	-10355.37
3	4	-812.87	2194.39	-37.19	-1617.06	-249.51	10612.40

Combination No. 835
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.06	2047.81	-41.33	-2221.28	237.20	-10254.24
3	4	-806.65	2176.37	-36.77	-2184.02	-229.78	10533.76


Combination No. 836
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	830.30	2160.53	-41.13	-1979.81	227.82	-10932.05
3	4	-857.88	2229.68	-36.97	-1921.96	-239.15	11334.98

Combination No. 837
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.06	2302.80	-41.12	-1980.53	227.17	-10376.92
3	4	-844.64	2087.41	-36.98	-1921.24	-239.81	11507.88

Combination No. 838
 Group id: STR GP 5 Name: STRENGTH GROUP V

		Sheet #	172
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
Version: 12.01.00.57 Phone: 1-800-778-4277		Checked	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.66	2171.85	-41.58	-2277.04	224.86	-10044.41
3	4	-811.95	2060.92	-37.69	-2204.75	-249.21	10900.85

Combination No. 839
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.15	2188.58	-41.86	-1706.83	237.82	-10131.49
3	4	-818.44	2071.81	-37.41	-1663.00	-236.25	11001.13

Combination No. 840
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.30	2210.39	-41.35	-1675.35	237.79	-9975.55
3	4	-812.89	2040.88	-36.75	-1639.39	-229.18	10992.56

Combination No. 841
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.16	2192.38	-40.92	-2242.31	218.06	-9897.61
3	4	-806.74	2031.80	-37.18	-2163.00	-248.92	10893.20

Combination No. 842
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	777.74	2242.65	-34.59	-1613.12	188.40	-9789.83
3	4	-808.60	2017.34	-30.55	-1555.95	-200.47	11007.29

Combination No. 843
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	754.65	2163.80	-34.83	-1370.50	199.70	-9515.21

		Sheet # 173	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
File Name: Pier 12 Straddle.rpt		Date 9/10/14	
		Checked	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-785.50	1987.22	-30.31	-1338.15	-189.17	10615.33

Combination No. 844

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	777.70	2030.93	-34.61	-1612.05	189.37	-10297.91
3	4	-808.55	2229.06	-30.53	-1557.02	-199.49	10498.01

Combination No. 845

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	754.64	2000.80	-34.37	-1394.24	178.08	-9906.64
3	4	-785.50	2150.22	-30.77	-1314.41	-210.79	10223.74

Combination No. 846

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.47	2100.86	-41.03	-1691.24	223.31	-10402.36
3	4	-823.06	2150.41	-37.07	-1623.49	-243.66	10859.37

Combination No. 847

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.75	2089.22	-41.21	-2227.34	231.69	-10300.36
3	4	-816.34	2134.96	-36.88	-2177.97	-235.29	10767.42


Combination No. 848

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.60	2143.30	-41.21	-2059.94	231.27	-10720.46
3	4	-845.19	2191.57	-36.89	-2009.67	-235.70	11180.01

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 174	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
		Designed CAM	
File Name: Pier 12 Straddle.rpt		Date 9/10/14	
		Checked	

Combination No. 849

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	715.91	1946.21	-24.93	-948.99	124.35	-9267.74
3	4	-751.52	2058.98	-21.36	-878.08	-150.91	9813.19

Combination No. 850

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	728.06	1960.55	-25.12	-1077.71	132.91	-9482.79
3	4	-763.67	2110.02	-21.17	-1025.61	-142.35	9949.00

Combination No. 851

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.25	2208.25	-41.15	-2062.68	228.78	-10534.68
3	4	-844.84	2126.62	-36.95	-2006.94	-238.19	11355.78

Combination No. 852

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.81	2066.93	-41.01	-1771.71	222.39	-10506.20
3	4	-821.40	2230.17	-37.09	-1701.91	-244.59	10707.62

Combination No. 853

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.02	2164.77	-41.04	-2152.31	223.58	-10389.89
3	4	-831.61	2114.75	-37.06	-2085.15	-243.39	11118.71

Combination No. 854

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	175
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.72	2301.84	-41.16	-1923.15	229.16	-10372.67
3	4	-844.30	2086.92	-36.94	-1868.24	-237.81	11502.34

Combination No. 855

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.46	2235.59	-41.03	-2152.67	223.26	-10012.72
3	4	-817.05	2043.94	-37.07	-2084.79	-243.72	11075.64

Combination No. 856

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	817.92	2134.78	-41.13	-1845.20	227.80	-10760.17
3	4	-845.51	2208.15	-36.97	-1787.30	-239.17	11149.71

Combination No. 857

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.90	2130.56	-41.02	-1771.52	222.56	-10547.19
3	4	-834.49	2166.55	-37.08	-1702.10	-244.42	11044.48

Combination No. 858

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	728.17	2120.12	-25.10	-1078.53	132.17	-9136.82
3	4	-763.78	1950.45	-21.19	-1024.80	-143.09	10297.96


Combination No. 859

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	713.62	2059.12	-24.94	-1205.07	124.83	-8974.32

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	176
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-749.23	1933.32	-21.35	-1135.21	-150.43	10040.41

Combination No. 860

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.35	2204.15	-41.21	-1841.24	231.41	-10590.09
3	4	-846.94	2138.78	-36.89	-1791.26	-235.57	11360.90

Combination No. 861

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.99	2162.88	-41.21	-1682.28	231.48	-10225.57
3	4	-822.58	2088.39	-36.89	-1632.45	-235.50	11022.31

Combination No. 862

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.19	2147.63	-41.05	-2235.78	224.00	-10132.24
3	4	-815.78	2076.55	-37.05	-2169.53	-242.97	10919.37

Combination No. 863

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	777.49	2241.82	-34.64	-1567.50	190.52	-9786.91
3	4	-808.35	2017.03	-30.50	-1515.00	-198.34	11003.07


Combination No. 864

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	829.64	2241.09	-41.12	-1980.22	227.45	-10701.96
3	4	-857.23	2149.12	-36.98	-1921.55	-239.52	11546.14

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	177
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 865
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.77	2104.49	-46.01	-2150.68	245.53	-10907.12
3	4	-843.04	2285.72	-39.54	-2062.29	-262.97	10977.79

Combination No. 866
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	783.87	2088.85	-46.70	-2435.94	253.48	-10243.15
3	4	-807.85	2143.91	-40.03	-2357.06	-262.13	10630.05

Combination No. 867
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.27	2100.39	-46.48	-1891.01	243.42	-10340.86
3	4	-814.25	2160.00	-40.24	-1790.03	-272.19	10717.29

Combination No. 868
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.39	2233.07	-46.00	-2151.33	244.94	-10791.54
3	4	-857.66	2157.14	-39.55	-2061.64	-263.56	11515.34


Combination No. 869
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.06	2057.96	-45.78	-1868.83	234.91	-10392.81
3	4	-811.33	2193.31	-39.77	-1757.11	-273.59	10576.79

Combination No. 870
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	178
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.83	2048.89	-46.21	-2392.45	254.65	-10291.68
3	4	-805.11	2175.29	-39.34	-2324.07	-253.86	10498.15

Combination No. 871
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.07	2161.62	-46.01	-2150.97	245.27	-10969.49
3	4	-856.35	2228.60	-39.54	-2062.00	-263.23	11299.37

Combination No. 872
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.83	2303.89	-45.99	-2151.69	244.62	-10414.36
3	4	-843.10	2086.33	-39.56	-2061.28	-263.89	11472.27

Combination No. 873
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	786.43	2172.93	-46.46	-2448.20	242.31	-10081.85
3	4	-810.41	2059.83	-40.27	-2344.80	-273.29	10865.24

Combination No. 874
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	792.92	2189.67	-46.74	-1877.99	255.27	-10168.93
3	4	-816.90	2070.72	-39.99	-1803.05	-260.33	10965.52

Combination No. 875
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	787.07	2211.47	-46.22	-1846.51	255.24	-10012.99

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 179	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-811.35	2039.80	-39.33	-1779.43	-253.26	10956.96

Combination No. 876
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	780.93	2193.46	-45.80	-2413.47	235.50	-9935.05
3	4	-805.20	2030.72	-39.75	-2303.05	-273.00	10857.60

Combination No. 877
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.51	2243.73	-39.47	-1784.28	205.85	-9827.27
3	4	-807.06	2016.26	-33.12	-1695.99	-224.55	10971.68

Combination No. 878
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	756.42	2164.88	-39.71	-1541.66	217.14	-9552.64
3	4	-783.96	1986.14	-32.88	-1478.19	-213.25	10579.72

Combination No. 879
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.47	2032.01	-39.49	-1783.21	206.82	-10335.34
3	4	-807.02	2227.98	-33.10	-1697.07	-223.57	10462.40

Combination No. 880
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	756.41	2001.88	-39.24	-1565.41	195.52	-9944.08
3	4	-783.96	2149.13	-33.35	-1454.45	-224.87	10188.13

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 180	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 881
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	797.24	2101.95	-45.91	-1862.41	240.76	-10439.80
3	4	-821.52	2149.33	-39.64	-1763.53	-267.74	10823.76

Combination No. 882
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	790.52	2090.30	-46.09	-2398.50	249.14	-10337.79
3	4	-814.80	2133.88	-39.46	-2318.02	-259.37	10731.81

Combination No. 883
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.37	2144.39	-46.08	-2231.11	248.72	-10757.90
3	4	-843.65	2190.48	-39.47	-2149.72	-259.78	11144.40

Combination No. 884
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	717.68	1947.29	-29.81	-1120.15	141.80	-9305.18
3	4	-749.98	2057.90	-23.93	-1018.13	-174.99	9777.58


Combination No. 885
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	729.84	1961.63	-29.99	-1248.87	150.36	-9520.23
3	4	-762.13	2108.94	-23.75	-1165.65	-166.43	9913.39

Combination No. 886
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	181
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.02	2209.33	-46.03	-2233.84	246.23	-10572.12
3	4	-843.30	2125.53	-39.52	-2146.98	-262.27	11320.17

Combination No. 887

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.58	2068.01	-45.89	-1942.87	239.83	-10543.64
3	4	-819.86	2229.09	-39.66	-1841.96	-268.67	10672.01

Combination No. 888

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.79	2165.86	-45.92	-2323.48	241.03	-10427.33
3	4	-830.07	2113.67	-39.63	-2225.19	-267.47	11083.10

Combination No. 889

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	818.49	2302.92	-46.04	-2094.31	246.61	-10410.11
3	4	-842.76	2085.84	-39.51	-2008.29	-261.89	11466.73

Combination No. 890

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.24	2236.67	-45.91	-2323.83	240.70	-10050.16
3	4	-815.51	2042.86	-39.64	-2224.83	-267.80	11040.03


Combination No. 891

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.70	2135.87	-46.01	-2016.36	245.25	-10797.61

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	182
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-843.97	2207.07	-39.54	-1927.35	-263.25	11114.10

Combination No. 892

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	808.67	2131.64	-45.89	-1942.68	240.00	-10584.63
3	4	-832.95	2165.46	-39.66	-1842.14	-268.50	11008.87

Combination No. 893

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	729.94	2121.20	-29.98	-1249.69	149.62	-9174.26
3	4	-762.24	1949.37	-23.76	-1164.84	-167.17	10262.35

Combination No. 894

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	715.39	2060.20	-29.82	-1376.23	142.27	-9011.76
3	4	-747.69	1932.24	-23.92	-1275.26	-174.51	10004.80

Combination No. 895

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	821.12	2205.23	-46.08	-2012.40	248.85	-10627.53
3	4	-845.40	2137.70	-39.46	-1931.31	-259.65	11325.29


Combination No. 896

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.76	2163.96	-46.09	-1853.44	248.92	-10263.01
3	4	-821.04	2087.31	-39.46	-1772.50	-259.58	10986.70

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	183
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 897
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	789.96	2148.71	-45.92	-2406.94	241.45	-10169.68
3	4	-814.24	2075.47	-39.62	-2309.58	-267.05	10883.76

Combination No. 898
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	779.27	2242.90	-39.51	-1738.66	207.97	-9824.35
3	4	-806.81	2075.94	-33.08	-1655.04	-222.42	10967.46

Combination No. 899
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	831.41	2242.17	-46.00	-2151.38	244.90	-10739.40
3	4	-855.69	2148.04	-39.55	-2061.60	-263.60	11510.53

Combination No. 900
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.60	2107.06	-49.17	-2255.67	255.03	-11007.88
3	4	-839.10	2283.15	-40.91	-2143.34	-277.54	10884.05


Combination No. 901
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	788.70	2091.42	-49.86	-2540.93	262.98	-10343.91
3	4	-803.90	2141.35	-41.40	-2438.11	-276.70	10536.30

Combination No. 902
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.11	2102.96	-49.64	-1996.00	252.92	-10441.62
3	4	-810.31	2157.43	-41.62	-1871.08	-286.76	10623.54

Combination No. 903
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.22	2235.64	-49.16	-2256.32	254.44	-10892.30
3	4	-853.72	2154.57	-40.92	-2142.69	-278.13	11421.60

Combination No. 904
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.89	2060.53	-48.94	-1973.82	244.41	-10493.57
3	4	-807.39	2190.74	-41.14	-1838.16	-288.16	10483.04

Combination No. 905
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.66	2051.46	-49.36	-2497.44	264.15	-10392.44
3	4	-801.16	2172.72	-40.71	-2405.12	-268.43	10404.40

Combination No. 906
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	836.90	2164.18	-49.16	-2255.97	254.77	-11070.25
3	4	-852.40	2226.03	-40.92	-2143.05	-277.81	11205.63

Combination No. 907
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.66	2306.46	-49.15	-2256.68	254.12	-10515.12

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-839.16	2083.76	-40.93	-2142.34	-278.46	11378.53

Combination No. 908
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.26	2175.50	-49.62	-2553.19	251.81	-10182.61
3	4	-806.46	2057.27	-41.64	-2425.85	-287.86	10771.50

Combination No. 909
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	797.75	2192.23	-49.90	-1982.98	264.77	-10269.69
3	4	-812.95	2068.16	-41.36	-1884.10	-274.91	10871.78

Combination No. 910
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	791.90	2214.04	-49.38	-1951.50	264.74	-10113.75
3	4	-807.40	2037.23	-40.70	-1860.48	-267.84	10863.21

Combination No. 911
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	785.76	2196.03	-48.95	-2518.46	245.00	-10035.81
3	4	-801.26	2028.15	-41.13	-2384.10	-287.57	10763.85

Combination No. 912
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.34	2246.30	-42.62	-1889.27	215.35	-9928.03
3	4	-803.11	2013.69	-34.50	-1777.05	-239.12	10877.93

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 913
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	761.25	2167.45	-42.87	-1646.65	226.64	-9653.40
3	4	-780.02	1983.57	-34.25	-1559.25	-227.82	10485.97

Combination No. 914
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.30	2034.58	-42.64	-1888.20	216.32	-10436.11
3	4	-803.07	2225.41	-34.48	-1778.12	-238.15	10368.65

Combination No. 915
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	761.25	2004.45	-42.40	-1670.40	205.02	-10044.84
3	4	-780.01	2146.57	-34.72	-1535.50	-249.44	10094.38

Combination No. 916
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	802.07	2104.51	-49.06	-1967.40	250.26	-10540.56
3	4	-817.57	2146.76	-41.01	-1844.59	-282.31	10730.02


Combination No. 917
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	795.35	2092.87	-49.25	-2503.49	258.64	-10438.55
3	4	-810.85	2131.31	-40.83	-2399.07	-273.94	10638.06

Combination No. 918
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 187	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.20	2146.96	-49.24	-2336.10	258.22	-10858.66
3	4	-839.70	2187.91	-40.84	-2230.77	-274.35	11050.66

Combination No. 919

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 919

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	724.51	1949.86	-32.96	-1225.14	151.30	-9405.94
3	4	-746.03	2055.33	-25.30	-1099.18	-189.56	9683.83

Combination No. 920

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 920

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	734.67	1964.20	-33.15	-1353.87	159.86	-9620.99
3	4	-758.19	2106.37	-25.12	-1246.71	-181.00	9819.65

Combination No. 921

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 921

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.86	2211.90	-49.18	-2338.83	255.73	-10672.88
3	4	-839.35	2122.97	-40.90	-2228.03	-276.84	11226.43

Combination No. 922

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 922

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.41	2070.58	-49.04	-2047.86	249.33	-10644.40
3	4	-815.91	2226.52	-41.03	-1923.01	-283.24	10578.26

Combination No. 923


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 923

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.63	2168.42	-49.07	-2428.47	250.53	-10528.09

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 188	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-826.12	2111.10	-41.01	-2306.25	-282.04	10989.35

Combination No. 924

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 924

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	823.32	2305.49	-49.19	-2199.30	256.11	-10510.87
3	4	-838.82	2083.27	-40.89	-2089.34	-276.46	11372.98

Combination No. 925

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 925

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	796.07	2239.24	-49.06	-2428.83	250.20	-10150.92
3	4	-811.57	2040.29	-41.01	-2305.89	-282.37	10946.28

Combination No. 926

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 926

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	824.53	2138.43	-49.16	-2121.35	254.75	-10898.37
3	4	-840.03	2204.50	-40.92	-2008.40	-277.83	11020.35

Combination No. 927

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 927

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	813.50	2134.21	-49.05	-2047.67	249.50	-10685.39
3	4	-829.00	2162.90	-41.03	-1923.20	-283.07	10915.13

Combination No. 928


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 928

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	734.77	2123.77	-33.13	-1354.68	159.12	-9275.02
3	4	-758.29	1946.80	-25.14	-1245.89	-181.74	10168.60

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	189
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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Combination No. 929
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	720.22	2062.77	-32.97	-1481.22	151.77	-9112.52
3	4	-743.74	1929.67	-25.29	-1356.31	-189.09	9911.05

Combination No. 930
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.95	2207.80	-49.24	-2117.40	258.36	-10728.29
3	4	-841.45	2135.13	-40.84	-2012.36	-274.22	11231.54

Combination No. 931
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	801.59	2166.53	-49.24	-1958.43	258.42	-10363.77
3	4	-817.09	2084.74	-40.84	-1853.55	-274.15	10892.96

Combination No. 932
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.79	2151.28	-49.08	-2511.93	250.95	-10270.44
3	4	-810.29	2072.90	-41.00	-2390.63	-281.63	10790.01


Combination No. 933
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	784.10	2245.47	-42.67	-1843.65	217.47	-9925.11
3	4	-802.86	2013.38	-34.45	-1736.09	-237.00	10873.71

Combination No. 934
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	836.25	2244.74	-49.15	-2256.37	254.40	-10840.16
3	4	-851.74	2145.47	-40.92	-2142.65	-278.18	11416.78

Combination No. 935
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.69	2111.95	-50.10	-2281.07	256.09	-11200.18
3	4	-831.30	2278.27	-41.06	-2158.30	-280.78	10701.93

Combination No. 936
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	797.79	2096.30	-50.79	-2566.33	264.03	-10536.22
3	4	-796.10	2136.46	-41.55	-2453.07	-279.93	10354.19

Combination No. 937
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.20	2107.84	-50.57	-2021.40	253.97	-10633.93
3	4	-802.51	2152.55	-41.76	-1886.04	-289.99	10441.43

Combination No. 938
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	847.31	2240.53	-50.09	-2281.72	255.50	-11084.60
3	4	-845.92	2149.69	-41.07	-2157.65	-281.37	11239.48

Combination No. 939
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.98	2065.42	-49.87	-1999.22	245.47	-10685.88

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-799.59	2185.86	-41.29	-1853.12	-291.40	10300.93

Combination No. 940

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.75	2056.35	-50.30	-2522.84	265.20	-10584.75
3	4	-793.36	2167.84	-40.86	-2420.08	-271.66	10222.29

Combination No. 941

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	845.99	2169.07	-50.10	-2281.36	255.82	-11262.55
3	4	-844.60	2221.15	-41.06	-2158.01	-281.04	11023.51

Combination No. 942

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.75	2311.34	-50.08	-2282.08	255.17	-10707.43
3	4	-831.36	2078.87	-41.08	-2157.29	-281.69	11196.41

Combination No. 943

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.35	2180.38	-50.55	-2578.59	252.87	-10374.91
3	4	-798.66	2052.38	-41.79	-2440.81	-291.10	10589.38


Combination No. 944

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.84	2197.12	-50.83	-2008.38	265.82	-10462.00
3	4	-805.15	2063.27	-41.51	-1899.06	-278.14	10689.66

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	192
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
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		Date	

Combination No. 945

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 945

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.99	2218.92	-50.31	-1976.90	265.79	-10306.05
3	4	-799.60	2032.35	-40.85	-1875.44	-271.07	10681.10

Combination No. 946

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 946

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	794.85	2200.91	-49.89	-2543.86	246.06	-10228.12
3	4	-793.46	2023.27	-41.27	-2399.05	-290.81	10581.74

Combination No. 947

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 947

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.44	2251.18	-43.56	-1914.67	216.40	-10720.33
3	4	-795.31	2008.81	-34.64	-1792.00	-242.36	10695.82

Combination No. 948

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 948

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.34	2172.33	-43.80	-1672.05	227.70	-9845.71
3	4	-772.22	1978.68	-34.40	-1574.20	-231.06	10303.86

Combination No. 949

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 949


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.39	2039.46	-43.58	-1913.60	217.38	-10628.41
3	4	-795.27	2220.53	-34.62	-1793.08	-241.38	10186.54

Combination No. 950

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	770.34	2009.33	-43.33	-1695.80	206.08	-10237.15
3	4	-772.21	2141.68	-34.87	-1550.46	-252.68	9912.27

Combination No. 951

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	811.17	2109.40	-50.00	-1992.80	251.32	-10732.87
3	4	-809.77	2141.88	-41.16	-1859.54	-285.55	10547.91

Combination No. 952

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	804.45	2097.76	-50.18	-2528.89	259.69	-10630.86
3	4	-803.05	2126.43	-40.98	-2414.03	-277.17	10455.95

Combination No. 953

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.29	2151.84	-50.17	-2361.50	259.28	-11050.97
3	4	-831.90	2183.03	-40.99	-2245.72	-277.59	10868.54

Combination No. 954

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	731.60	1954.74	-33.90	-1250.54	152.35	-9598.24
3	4	-738.23	2050.45	-25.45	-1114.14	-192.80	9501.72


Combination No. 955

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	743.76	1969.08	-34.08	-1379.27	160.91	-9813.30

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-750.39	2101.49	-25.27	-1261.66	-184.24	9637.53

Combination No. 956

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.95	2216.79	-50.12	-2364.23	256.79	-10865.19
3	4	-831.55	2118.08	-41.04	-2242.99	-280.08	11044.31

Combination No. 957

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.51	2075.46	-49.98	-2073.26	250.39	-10836.71
3	4	-808.11	2221.64	-41.18	-1937.97	-286.48	10396.15

Combination No. 958

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	819.72	2173.31	-50.00	-2453.87	251.59	-10720.40
3	4	-818.32	2106.22	-41.15	-2321.20	-285.28	10807.24

Combination No. 959

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	832.41	2310.37	-50.12	-2224.70	257.17	-10703.18
3	4	-831.02	2078.39	-41.03	-2104.30	-279.70	11190.87


Combination No. 960

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.16	2244.12	-50.00	-2454.23	251.26	-10343.22
3	4	-803.77	2035.41	-41.16	-2320.84	-285.61	10764.17

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	195
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 961
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.62	2143.32	-50.10	-2146.75	255.80	-11090.68
3	4	-832.23	2199.61	-41.06	-2023.36	-281.06	10838.24

Combination No. 962
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	822.60	2139.09	-49.98	-2073.07	250.56	-10877.70
3	4	-821.20	2158.01	-41.18	-1938.15	-286.30	10733.01

Combination No. 963
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	743.86	2128.65	-34.07	-1380.08	160.17	-9467.33
3	4	-750.49	1941.92	-25.28	-1260.85	-184.98	9986.49

Combination No. 964
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	729.31	2067.65	-33.91	-1506.62	152.83	-9304.83
3	4	-735.94	1924.79	-25.44	-1371.27	-192.32	9728.94

Combination No. 965
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	835.04	2212.68	-50.17	-2142.80	259.41	-10920.60
3	4	-833.65	2130.25	-40.98	-2027.32	-277.45	11049.43

Combination No. 966
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	833.62	2143.32	-50.10	-2146.75	255.80	-11090.68
3	4	-832.23	2199.61	-41.06	-2023.36	-281.06	10838.24

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	196
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.69	2171.42	-50.17	-1983.83	259.48	-10556.07
3	4	-809.29	2079.86	-40.98	-1868.51	-277.38	10710.84

Combination No. 967
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.89	2156.16	-50.01	-2537.33	252.00	-10462.74
3	4	-802.49	2068.02	-41.14	-2405.58	-284.86	10607.90

Combination No. 968
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	793.19	2250.36	-43.60	-1869.05	218.53	-10117.42
3	4	-795.06	2008.49	-34.60	-1751.05	-240.23	10691.60

Combination No. 969
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	845.34	2249.62	-50.09	-2281.77	255.46	-11032.47
3	4	-843.94	2140.59	-41.07	-2157.60	-281.41	11234.67

Combination No. 970
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.25	2114.64	-50.64	-2308.98	260.76	-11313.77
3	4	-827.11	2275.57	-41.99	-2191.39	-284.34	10599.25

Combination No. 971
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	803.35	2099.00	-51.33	-2594.24	268.70	-10649.80

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 197	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-791.91	2133.77	-42.47	-2486.16	-283.50	10251.50

Combination No. 972

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.75	2110.54	-51.11	-2049.31	258.64	-10747.51
3	4	-798.32	2149.85	-42.69	-1919.13	-293.56	10338.75

Combination No. 973

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	852.86	2243.22	-50.63	-2309.63	260.16	-11198.19
3	4	-841.73	2146.99	-42.00	-2190.74	-284.94	11136.80

Combination No. 974

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.54	2068.11	-50.41	-2027.13	250.13	-10799.46
3	4	-795.40	2183.17	-42.21	-1886.21	-294.97	10198.24

Combination No. 975

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.31	2059.04	-50.84	-2550.75	269.87	-10698.33
3	4	-789.17	2165.14	-41.79	-2453.17	-275.23	10119.60


Combination No. 976

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	851.55	2171.76	-50.64	-2309.27	260.49	-11376.14
3	4	-840.41	2218.45	-41.99	-2191.10	-284.61	10920.83

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 977

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.31	2314.03	-50.62	-2309.99	259.84	-10821.01
3	4	-827.17	2076.18	-42.00	-2190.38	-285.26	11093.73

Combination No. 978

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	805.91	2183.08	-51.09	-2606.50	257.53	-10488.50
3	4	-794.47	2049.69	-42.72	-2473.90	-294.67	10486.70

Combination No. 979

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	812.40	2199.81	-51.37	-2036.29	270.49	-10575.58
3	4	-800.96	2060.58	-42.44	-1932.15	-281.71	10586.98

Combination No. 980

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	806.55	2221.62	-50.85	-2004.81	270.46	-10419.64
3	4	-795.41	2029.66	-41.78	-1908.53	-274.64	10578.41

Combination No. 981

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	800.41	2203.61	-50.42	-2571.77	250.72	-10341.70
3	4	-789.27	2020.58	-42.20	-2432.14	-294.38	10479.05

Combination No. 982

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.99	2253.88	-44.10	-1942.58	221.07	-10233.92
3	4	-791.12	2006.11	-35.57	-1825.09	-245.93	10593.14

Combination No. 983

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 983

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.90	2175.03	-44.34	-1699.96	232.37	-9959.29
3	4	-768.03	1975.99	-35.33	-1607.29	-234.63	10201.18

Combination No. 984

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 984

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.95	2042.16	-44.12	-1941.51	222.04	-10742.00
3	4	-791.08	2217.83	-35.55	-1826.16	-244.95	10083.85

Combination No. 985

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 985

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	775.89	2012.03	-43.87	-1723.71	210.75	-10350.73
3	4	-768.03	2138.99	-35.79	-1583.55	-256.25	9809.58

Combination No. 986

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 986

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.72	2112.09	-50.54	-2020.71	255.98	-10846.45
3	4	-805.59	2139.18	-42.09	-1892.63	-289.12	10445.22

Combination No. 987


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 987

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.00	2100.45	-50.72	-2556.80	264.36	-10744.45

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-798.87	2123.73	-41.91	-2447.12	-280.74	10353.26

Combination No. 988

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 988

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.85	2154.53	-50.71	-2389.41	263.94	-11164.55
3	4	-827.71	2180.34	-41.92	-2278.81	-281.16	10765.86

Combination No. 989

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 989

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	737.16	1957.44	-34.44	-1278.45	157.02	-9711.83
3	4	-734.05	2047.75	-26.38	-1147.23	-196.37	9399.04

Combination No. 990

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 990

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.32	1971.77	-34.62	-1407.18	165.58	-9926.88
3	4	-746.20	2098.80	-26.19	-1294.75	-187.81	9534.85

Combination No. 991

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 991

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	838.50	2219.48	-50.66	-2392.14	261.45	-10978.77
3	4	-827.37	2215.39	-41.97	-2276.08	-283.65	10941.63

Combination No. 992


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 992

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	815.06	2078.16	-50.52	-2101.17	255.06	-10950.29
3	4	-803.93	2218.94	-42.11	-1971.05	-290.04	10293.46

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 201	
		Job # 59219	
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Combination No. 993									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	825.27	2176.00	-50.54	-2481.78	256.25	-10833.98
3	4	-814.14	2103.52	-42.08	-2354.29	-288.85	10704.55

Combination No. 994									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	837.97	2313.07	-50.66	-2252.61	261.83	-10816.76
3	4	-826.83	2075.69	-41.96	-2137.38	-283.27	11088.18

Combination No. 995									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	810.71	2246.82	-50.54	-2482.14	255.93	-10456.81
3	4	-799.58	2032.71	-42.09	-2353.93	-289.17	10661.48

Combination No. 996									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	839.17	2146.01	-50.63	-2174.66	260.47	-11204.26
3	4	-828.04	2196.92	-41.99	-2056.45	-284.63	10735.56


Combination No. 997									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	828.15	2141.79	-50.52	-2100.98	255.23	-10991.28
3	4	-817.02	2155.32	-42.10	-1971.24	-289.87	10630.33

Combination No. 998									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	749.42	2131.35	-34.61	-1407.99	164.84	-9580.91
3	4	-746.31	1939.22	-26.21	-1293.94	-188.55	9883.81

Combination No. 999									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	734.87	2070.34	-34.45	-1534.53	157.49	-9418.41
3	4	-731.75	1922.09	-26.37	-1404.36	-195.89	9626.26

Combination No. 1000									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	840.60	2215.38	-50.71	-2170.71	264.08	-11034.18
3	4	-829.46	2127.56	-41.91	-2060.40	-281.02	10946.75

Combination No. 1001									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	816.24	2174.11	-50.71	-2011.74	264.15	-10669.66
3	4	-805.11	2077.16	-41.91	-1901.60	-280.95	10608.16

Combination No. 1002									
Group id: STR GP 5 Name: STRENGTH GROUP V									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	809.44	2158.86	-50.55	-2565.24	256.67	-10576.33
3	4	-798.31	2065.33	-42.07	-2438.67	-288.43	10505.21

Combination No. 1003									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	798.74	2253.05	-44.14	-1896.96	223.19	-10231.00

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-790.88	2005.80	-35.53	-1784.14	-243.80	10588.92

Combination No. 1004

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	850.89	2252.32	-50.63	-2309.68	260.12	-11146.05
3	4	-839.76	2137.89	-42.00	-2190.69	-284.98	11131.99

Combination No. 1005

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.91	1562.90	36.95	2035.55	-211.39	-8851.51
3	4	-610.69	1702.73	35.09	2001.58	221.61	7690.70

Combination No. 1006

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.71	1547.04	37.44	1816.61	-210.49	-8181.05
3	4	-575.79	1561.14	35.77	1772.73	229.61	7349.47

Combination No. 1007

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.12	1558.58	37.66	2361.54	-220.56	-8278.76
3	4	-582.19	1577.23	35.55	2339.76	219.55	7436.71


Combination No. 1008

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.53	1691.48	36.96	2034.90	-211.98	-8735.93
3	4	-625.30	1574.15	35.07	2002.23	221.02	8228.24

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1009

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.20	1516.37	37.17	2317.40	-222.02	-8337.21
3	4	-578.98	1610.32	34.86	2306.76	210.99	7289.69

Combination No. 1010

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.97	1507.30	36.75	1793.79	-202.28	-8236.08
3	4	-572.75	1592.30	35.28	1739.80	230.73	7211.05

Combination No. 1011

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.21	1620.02	36.95	2035.26	-211.66	-8913.88
3	4	-623.99	1645.61	35.08	2001.87	221.35	8012.27

Combination No. 1012

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.97	1762.29	36.96	2034.54	-212.31	-8358.76
3	4	-610.75	1503.34	35.07	2002.59	220.70	8185.17

Combination No. 1013

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.27	1631.12	37.68	1804.35	-221.66	-8019.74
3	4	-578.35	1477.06	35.53	1784.99	218.45	7584.67

Combination No. 1014

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.76	1647.88	37.40	2374.56	-208.70	-8106.83
3	4	-584.84	1487.95	35.80	2326.74	231.41	7684.95

Combination No. 1015

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.21	1669.88	36.74	2339.73	-201.69	-7957.38
3	4	-578.99	1456.81	35.30	2284.44	231.32	7669.86

Combination No. 1016

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.07	1651.86	37.16	1772.77	-221.42	-7879.45
3	4	-572.85	1447.73	34.87	1760.83	211.58	7570.50

Combination No. 1017

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.91	1704.55	30.44	1672.54	-173.60	-7843.15
3	4	-571.42	1430.86	28.63	1642.84	181.30	7612.81

Combination No. 1018

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.82	1625.70	30.20	1915.16	-162.30	-7568.53
3	4	-548.33	1400.73	28.88	1860.64	192.60	7220.85


Combination No. 1019

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.87	1492.83	30.42	1673.62	-172.62	-8351.23

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-571.38	1642.58	28.65	1641.77	182.28	7103.53

Combination No. 1020

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.81	1462.70	30.66	1891.42	-183.92	-7959.96
3	4	-548.32	1563.73	28.41	1884.38	170.98	6829.26

Combination No. 1021

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.38	1560.35	37.05	2323.83	-216.16	-8384.19
3	4	-589.16	1566.34	34.98	2300.34	216.84	7536.67

Combination No. 1022

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.66	1548.71	36.87	1787.74	-207.79	-8282.19
3	4	-582.44	1550.89	35.16	1745.86	225.22	7444.71

Combination No. 1023

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.51	1602.79	36.88	1955.13	-208.21	-8702.30
3	4	-611.29	1607.49	35.15	1914.16	224.80	7857.30


Combination No. 1024

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	549.82	1411.62	21.11	1275.71	-124.95	-7425.04
3	4	-509.58	1468.99	19.11	1266.10	116.34	6314.32

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-613.04	1554.71	35.16	2132.57	224.94	8038.19

Combination No. 1036

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.90	1622.37	36.87	2332.79	-208.00	-8207.40
3	4	-588.68	1504.32	35.16	2291.37	225.01	7699.60

Combination No. 1037

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.10	1607.11	37.03	1779.30	-215.48	-8114.07
3	4	-581.88	1492.48	35.00	1754.30	217.53	7596.66

Combination No. 1038

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.66	1703.72	30.39	1718.16	-171.48	-7840.24
3	4	-571.17	1430.54	28.68	1683.79	183.42	7608.59

Combination No. 1039

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.55	1700.58	36.96	2034.86	-212.03	-8683.80
3	4	-623.33	1565.05	35.07	2002.28	220.98	8223.43


Combination No. 1040

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.92	1582.72	41.08	2180.35	-225.37	-9008.33
3	4	-626.33	1747.29	37.02	2117.12	241.60	7915.44

Units: US (English)

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Combination No. 1041

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.72	1566.86	41.58	1961.41	-224.48	-8337.87
3	4	-591.43	1605.70	37.70	1888.27	249.60	7574.22

Combination No. 1042

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.13	1578.40	41.79	2506.34	-234.54	-8435.58
3	4	-597.84	1621.79	37.48	2455.30	239.54	7661.46

Combination No. 1043

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	668.54	1711.30	41.09	2179.70	-225.97	-8892.75
3	4	-640.95	1618.71	37.01	2117.77	241.01	8452.99

Combination No. 1044

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.21	1536.19	41.31	2462.20	-236.00	-8494.02
3	4	-594.62	1654.88	36.79	2422.31	230.98	7514.44

Combination No. 1045

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.98	1527.12	40.88	1938.59	-216.26	-8392.90
3	4	-588.39	1636.86	37.22	1855.35	250.71	7435.80

Combination No. 1046

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	667.22	1639.84	41.08	2180.06	-225.64	-9070.70
3	4	-639.63	1690.17	37.02	2117.41	241.33	8237.02

Combination No. 1047

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	621.28	1782.11	41.10	2179.35	-226.29	-8515.58
3	4	-626.39	1547.90	37.00	2118.13	240.68	8409.92

Combination No. 1048

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	621.28	1650.94	41.82	1949.15	-235.64	-8176.56
3	4	-593.99	1521.62	37.46	1900.53	238.43	7809.42

Combination No. 1049

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	627.77	1667.67	41.54	2519.36	-222.68	-8263.64
3	4	-600.48	1532.51	37.74	2442.28	251.39	7909.70

Combination No. 1050

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	622.22	1689.70	40.87	2484.53	-215.67	-8114.20
3	4	-594.63	1501.37	37.23	2399.98	251.30	7894.61


Combination No. 1051

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	616.08	1671.69	41.29	1917.57	-235.40	-8036.27

Units: US (English)

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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-588.49	1492.29	36.80	1876.37	231.57	7795.25

Combination No. 1052

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	617.92	1724.37	34.57	1817.34	-187.58	-7999.97
3	4	-587.06	1475.42	30.57	1758.38	201.28	7837.56

Combination No. 1053

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	594.83	1645.52	34.33	2059.96	-176.28	-7725.34
3	4	-563.97	1445.29	30.81	1976.18	212.58	7445.60

Combination No. 1054

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	617.88	1512.65	34.55	1818.42	-186.60	-8508.05
3	4	-587.02	1687.14	30.59	1757.31	202.26	7328.28

Combination No. 1055

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	594.82	1482.52	34.80	2036.22	-197.90	-8116.78
3	4	-563.97	1608.29	30.34	1999.93	190.96	7054.01


Combination No. 1056

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	632.39	1580.17	41.18	2468.63	-230.15	-8541.01
3	4	-604.80	1610.90	36.92	2415.88	236.83	7761.41

Units: US (English)

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1057
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.67	1568.53	41.00	1932.54	-221.77	-8439.01
3	4	-598.09	1595.45	37.10	1861.40	245.20	7669.46

Combination No. 1058
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.52	1622.61	41.01	2099.93	-222.19	-8859.12
3	4	-626.93	1652.05	37.09	2029.70	244.79	8082.05

Combination No. 1059
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	560.83	1431.44	25.25	1420.51	-138.93	-7581.86
3	4	-525.22	1513.55	21.04	1381.64	136.32	6539.07

Combination No. 1060
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	572.98	1445.78	25.06	1291.79	-130.37	-7796.92
3	4	-537.37	1564.59	21.23	1234.12	144.88	6674.88


Combination No. 1061
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.17	1687.56	41.06	2097.20	-224.68	-8673.33
3	4	-626.59	1587.10	37.04	2032.43	242.30	8257.82

Combination No. 1062
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	214
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.73	1546.24	41.20	2388.17	-231.07	-8644.85
3	4	-603.14	1690.66	36.90	2337.46	235.90	7609.66

Combination No. 1063
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.94	1644.08	41.18	2007.56	-229.88	-8528.54
3	4	-613.36	1575.24	36.92	1954.22	237.10	8020.75

Combination No. 1064
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.64	1781.14	41.05	2236.73	-224.29	-8511.32
3	4	-626.05	1547.41	37.04	2171.13	242.68	8404.38

Combination No. 1065
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.39	1714.89	41.18	2007.20	-230.20	-8151.37
3	4	-598.80	1504.43	36.92	1954.58	236.77	7977.68

Combination No. 1066
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.85	1614.09	41.08	2314.67	-225.66	-8898.83
3	4	-627.26	1668.64	37.02	2252.07	241.31	8051.75

Combination No. 1067
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.82	1609.87	41.20	2388.36	-230.90	-8685.85

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	215
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-616.23	1627.03	36.90	2337.27	236.07	7946.52

Combination No. 1068

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.09	1605.35	25.08	1290.97	-131.11	-7450.94
3	4	-537.48	1405.02	21.21	1234.93	144.14	7023.84

Combination No. 1069

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	558.54	1544.35	25.24	1164.43	-138.46	-7288.44
3	4	-522.93	1387.89	21.05	1124.51	136.80	6766.29

Combination No. 1070

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.27	1683.46	41.01	2318.63	-222.05	-8728.75
3	4	-628.68	1599.27	37.09	2248.11	244.92	8262.94

Combination No. 1071

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.91	1642.19	41.00	2477.59	-221.98	-8364.22
3	4	-604.32	1548.88	37.09	2406.92	244.99	7924.35


Combination No. 1072

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.11	1626.94	41.17	1924.10	-229.46	-8270.89
3	4	-597.53	1537.04	36.93	1869.84	237.51	7821.41

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	216
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1073

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.67	1723.54	34.53	1862.96	-185.46	-7997.05
3	4	-586.82	1475.10	30.61	1799.33	203.41	7833.34

Combination No. 1074

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.56	1720.40	41.09	2179.66	-226.01	-8840.62
3	4	-638.98	1609.61	37.01	2117.82	240.97	8448.18

Combination No. 1075

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.14	1581.64	45.95	2351.52	-242.82	-8970.89
3	4	-627.87	1748.37	39.59	2257.17	265.68	7951.05

Combination No. 1076

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.95	1565.78	46.45	2132.57	-241.92	-8300.43
3	4	-592.97	1606.78	40.27	2028.31	273.68	7609.83

Combination No. 1077

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.36	1577.32	46.67	2677.50	-251.98	-8398.14
3	4	-599.38	1622.87	40.06	2595.34	263.62	7697.07

Combination No. 1078

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 217	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rpt		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.44	1710.22	45.97	2350.87	-243.41	-8855.31
3	4	-642.49	1619.79	39.58	2257.82	265.09	8488.60

Combination No. 1079

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1079

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.44	1535.11	46.18	2633.37	-253.44	-8456.58
3	4	-596.16	1655.96	39.37	2562.35	255.06	7550.05

Combination No. 1080

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1080

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.21	1526.04	45.76	2109.75	-233.71	-8355.46
3	4	-589.93	1637.94	39.79	1995.39	274.79	7471.41

Combination No. 1081

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1081

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.45	1638.76	45.96	2351.23	-243.09	-9033.26
3	4	-641.17	1691.25	39.59	2257.46	265.42	8272.63

Combination No. 1082

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1082

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.20	1781.03	45.97	2350.51	-243.74	-8478.14
3	4	-627.93	1548.98	39.57	2258.18	264.76	8445.53

Combination No. 1083


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1083

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.51	1649.86	46.69	2120.31	-253.09	-8139.12

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 218	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rpt		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-595.53	1522.71	40.03	2040.57	262.52	7845.03

Combination No. 1084

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1084

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.00	1666.59	46.41	2690.52	-240.13	-8226.20
3	4	-602.02	1533.60	40.31	2582.32	275.47	7945.31

Combination No. 1085

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1085

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.45	1688.62	45.74	2655.69	-233.12	-8076.76
3	4	-596.17	1502.45	39.80	2540.03	275.38	7930.21

Combination No. 1086

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1086

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.31	1670.60	46.17	2088.73	-252.85	-7998.83
3	4	-590.03	1493.37	39.38	2016.41	255.65	7830.85

Combination No. 1087

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1087

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.15	1723.29	39.45	1988.51	-205.03	-7962.53
3	4	-588.60	1476.50	33.14	1898.42	225.37	7873.17

Combination No. 1088


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1088

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.06	1644.44	39.20	2231.12	-193.73	-7687.97
3	4	-565.51	1446.38	33.38	2116.23	236.66	7481.21

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	219
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1089			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.11	1511.57	39.43	1989.58	-204.05	-8470.61
3	4	-588.56	1688.22	33.16	1897.35	226.34	7363.89

Combination No. 1090			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.05	1481.44	39.67	2207.38	-215.35	-8079.34
3	4	-565.51	1609.37	32.92	2139.97	215.04	7089.62

Combination No. 1091			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.62	1579.09	46.06	2639.79	-247.59	-8503.57
3	4	-606.34	1611.98	39.49	2555.92	260.91	7797.02


Combination No. 1092			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.90	1567.45	45.88	2703.70	-239.22	-8401.57
3	4	-599.62	1596.53	39.67	2001.44	269.28	7705.07

Combination No. 1093			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.75	1621.53	45.89	2271.09	-239.63	-8821.68
3	4	-628.47	1653.14	39.66	2169.74	268.87	8117.66

Combination No. 1094			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	559.06	1430.35	30.12	1591.67	-156.38	-7544.42
3	4	-526.76	1514.63	23.62	1521.69	160.40	6574.68

Combination No. 1095			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.21	1444.69	29.94	1462.95	-147.82	-7759.48
3	4	-538.91	1565.67	23.80	1374.16	168.96	6710.49

Combination No. 1096			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.40	1686.48	45.94	2268.36	-242.12	-8635.89
3	4	-628.12	1588.19	39.61	2172.48	266.38	8293.43

Combination No. 1097			
Group Id: STR GP 5 Name: STRENGTH GROUP V			


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.96	1545.16	46.08	2559.33	-248.52	-8607.42
3	4	-604.68	1691.74	39.47	2477.50	259.98	7645.27

Combination No. 1098			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.17	1643.00	46.05	2178.72	-247.32	-8491.10
3	4	-614.90	1576.32	39.50	2094.27	261.18	8056.36

Combination No. 1099			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.87	1780.06	45.93	2407.89	-241.74	-8473.89

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-627.59	1548.49	39.62	2311.17	266.76	8439.99

Combination No. 1100

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.61	1713.81	46.06	2178.36	-247.65	-8713.93
3	4	-600.34	1505.51	39.49	2094.62	260.85	8013.29

Combination No. 1101

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.07	1613.01	45.96	2485.84	-243.11	-8861.39
3	4	-628.80	1669.72	39.59	2392.11	265.40	8087.36

Combination No. 1102

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.05	1608.78	46.07	2559.52	-248.35	-8648.41
3	4	-617.77	1628.12	39.48	2477.31	260.15	7982.13

Combination No. 1103

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.31	1604.26	29.95	1462.13	-148.56	-7413.51
3	4	-539.02	1406.10	23.78	1374.97	168.22	7059.45


Combination No. 1104

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	556.76	1543.26	30.11	1335.59	-155.90	-7251.01
3	4	-524.46	1388.97	23.63	1264.56	160.88	6801.90

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	222
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1105

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.50	1682.37	45.88	2489.80	-239.50	-8691.31
3	4	-630.22	1600.35	39.67	2388.15	269.00	8298.55

Combination No. 1106

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.14	1641.11	45.88	2648.76	-239.43	-8326.78
3	4	-605.86	1549.96	39.67	2546.96	269.07	7959.96

Combination No. 1107

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.34	1625.85	46.04	2095.26	-246.91	-8233.45
3	4	-599.06	1538.12	39.51	2009.88	261.59	7857.02

Combination No. 1108

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.90	1722.46	39.40	2034.12	-202.91	-7959.62
3	4	-588.36	1476.18	33.19	1939.38	227.49	7868.95

Combination No. 1109

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.79	1719.32	45.97	2350.82	-243.46	-8803.18
3	4	-640.51	1610.69	39.58	2257.86	265.05	8483.79

Combination No. 1110

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 223	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.37	1579.07	49.11	2456.51	-252.32	-8870.13
3	4	-631.82	1750.94	40.97	2338.22	280.25	8044.80

Combination No. 1111
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.52	1563.21	49.61	2237.56	-251.42	-8199.67
3	4	-596.92	1609.35	41.65	2109.37	288.25	7703.58

Combination No. 1112
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.52	1574.75	49.82	2782.49	-261.48	-8297.38
3	4	-603.32	1625.44	41.43	2676.39	278.19	7790.82

Combination No. 1113
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.93	1707.65	49.12	2455.86	-252.91	-8754.55
3	4	-646.43	1622.36	40.96	2338.87	279.66	8582.35

Combination No. 1114
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.60	1532.54	49.34	2738.36	-262.94	-8355.82
3	4	-600.11	1658.53	40.74	2643.40	269.63	7643.79

Combination No. 1115
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.38	1523.47	48.91	2214.74	-243.21	-8254.70

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 224	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-593.88	1640.51	41.17	2076.44	289.37	7565.15

Combination No. 1116
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.61	1636.19	49.11	2456.22	-252.59	-8932.50
3	4	-645.12	1693.82	40.96	2338.51	279.99	8366.38

Combination No. 1117
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.37	1778.46	49.13	2455.50	-253.24	-8377.38
3	4	-631.88	1551.55	40.95	2339.23	279.34	8539.28

Combination No. 1118
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.68	1647.29	49.85	2225.30	-262.59	-8038.36
3	4	-599.48	1525.27	41.41	2121.63	277.09	7938.77

Combination No. 1119
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.17	1664.02	49.57	2795.51	-249.63	-8125.44
3	4	-605.97	1536.16	41.69	2663.38	290.05	8039.05

Combination No. 1120
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.62	1686.05	48.90	2760.68	-242.62	-7976.00
3	4	-600.12	1505.02	41.18	2621.08	289.96	8023.96

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	225
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1121
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.47	1668.04	49.33	2193.72	-262.35	-7898.07
3	4	-593.98	1495.94	40.75	2097.47	270.22	7924.60

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.32	1720.72	42.60	2093.50	-214.53	-7861.77
3	4	-592.55	1479.07	34.51	1979.48	239.94	7966.92

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	588.22	1641.87	42.36	2336.11	-203.23	-7587.15
3	4	-569.46	1448.94	34.76	2197.28	251.24	7574.96

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.27	1509.00	42.58	2094.57	-213.55	-8369.85
3	4	-592.51	1690.79	34.54	1978.41	240.92	7457.63

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	588.22	1641.87	42.36	2336.11	-203.23	-7587.15
3	4	-569.46	1448.94	34.76	2197.28	251.24	7574.96


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.27	1509.00	42.58	2094.57	-213.55	-8369.85
3	4	-592.51	1690.79	34.54	1978.41	240.92	7457.63

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	588.22	1478.87	42.83	2312.37	-224.85	-7978.58
3	4	-569.45	1611.94	34.29	2221.02	229.62	7183.37

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	588.22	1478.87	42.83	2312.37	-224.85	-7978.58
3	4	-569.45	1611.94	34.29	2221.02	229.62	7183.37

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	226
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.79	1576.52	49.21	2744.78	-257.09	-8402.81
3	4	-610.29	1614.55	40.87	2636.98	275.48	7890.77

Combination No. 1127
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.07	1564.88	49.03	2208.69	-248.72	-8300.81
3	4	-603.57	1599.10	41.05	2082.49	283.86	7798.81

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.92	1618.96	49.04	2376.08	-249.13	-8720.92
3	4	-632.42	1655.70	41.04	2250.80	283.44	8211.41

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.92	1618.96	49.04	2376.08	-249.13	-8720.92
3	4	-632.42	1655.70	41.04	2250.80	283.44	8211.41

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.22	1427.79	33.28	1696.66	-165.88	-7443.66
3	4	-530.70	1517.20	24.99	1602.74	174.98	6668.43


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.22	1427.79	33.28	1696.66	-165.88	-7443.66
3	4	-530.70	1517.20	24.99	1602.74	174.98	6668.43

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	566.38	1442.13	33.09	1567.94	-157.32	-7658.72
3	4	-542.86	1568.24	25.17	1455.21	183.54	6804.24

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	566.38	1442.13	33.09	1567.94	-157.32	-7658.72
3	4	-542.86	1568.24	25.17	1455.21	183.54	6804.24

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	227
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-632.07	1590.76	40.98	2253.53	280.95	8387.18

Combination No. 1132
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.13	1542.59	49.23	2664.32	-258.02	-8506.65
3	4	-608.63	1694.31	40.85	2558.55	274.55	7739.01

Combination No. 1133
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.34	1640.43	49.21	2283.72	-256.82	-8390.34
3	4	-618.84	1578.89	40.87	2175.32	275.75	8150.10

Combination No. 1134
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.03	1777.49	49.09	2512.88	-251.24	-8373.13
3	4	-631.54	1551.06	40.99	2392.23	281.33	8533.73

Combination No. 1135
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.78	1711.24	49.21	2283.36	-257.15	-8013.17
3	4	-604.28	1508.08	40.86	2175.68	275.42	8107.03

Combination No. 1136
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.24	1610.44	49.12	2590.83	-252.61	-8760.63
3	4	-632.74	1672.29	40.96	2473.16	279.97	8181.11

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	228
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1137
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.22	1606.21	49.23	2664.51	-257.85	-8547.65
3	4	-621.72	1630.68	40.85	2558.37	274.72	8075.88

Combination No. 1138
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	566.48	1601.70	33.11	1567.13	-158.06	-7312.74
3	4	-542.96	1408.67	25.16	1456.03	182.80	7153.20

Combination No. 1139
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	551.93	1540.70	33.27	1440.58	-165.40	-7150.25
3	4	-528.41	1391.54	25.00	1345.61	175.46	6895.65

Combination No. 1140
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.67	1679.81	49.04	2594.79	-249.00	-8590.54
3	4	-634.17	1602.92	41.04	2469.21	283.58	8392.29


Combination No. 1141
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.31	1638.54	49.04	2753.75	-248.93	-8226.02
3	4	-609.81	1552.53	41.04	2628.01	283.65	8053.71

Combination No. 1142
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	229
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.07	1623.29	49.20	2139.12	-212.41	-8132.69
3	4	-603.01	1540.69	40.88	2090.94	276.17	7950.76

Combination No. 1143

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.07	1719.89	49.12	2139.12	-212.41	-7858.85
3	4	-592.30	1478.75	34.56	2020.43	242.06	7962.70

Combination No. 1144

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	659.96	1716.75	49.12	2455.81	-252.96	-8702.42
3	4	-644.46	1613.26	40.95	2338.92	279.62	8577.53

Combination No. 1145

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.22	1574.19	50.04	2481.91	-253.38	-8677.82
3	4	-639.62	1755.82	41.11	2353.18	283.49	8226.91

Combination No. 1146

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.03	1558.32	50.54	2262.96	-252.48	-8007.36
3	4	-604.72	1614.24	41.79	2124.32	291.49	7885.69


Combination No. 1147

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.43	1569.86	50.76	2807.89	-262.54	-8105.07

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-611.12	1630.32	41.58	2691.35	281.43	7972.93

Combination No. 1148

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.84	1702.77	50.06	2481.26	-253.97	-8562.24
3	4	-654.23	1627.24	41.10	2353.83	282.90	8764.46

Combination No. 1149

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.51	1527.65	50.27	2763.76	-264.00	-8163.52
3	4	-607.91	1663.42	40.89	2658.36	272.86	7825.90

Combination No. 1150

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.29	1518.59	49.85	2240.14	-244.26	-8062.39
3	4	-601.68	1645.39	41.31	2091.40	292.60	7747.27

Combination No. 1151

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.52	1631.31	50.05	2481.62	-253.64	-8740.19
3	4	-652.92	1698.70	41.11	2353.47	283.22	8548.49


Combination No. 1152

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.28	1773.58	50.06	2480.90	-254.30	-8185.07
3	4	-639.68	1556.43	41.09	2354.19	282.57	8721.39

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	231
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1153
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.59	1642.40	50.78	2250.70	-263.64	-7846.05
3	4	-607.28	1530.16	41.55	2136.58	280.32	8120.88

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.08	1659.14	50.50	2820.91	-250.69	-7933.14
3	4	-613.77	1541.05	41.83	2678.33	293.28	8221.17


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.52	1681.16	49.83	2786.08	-243.67	-7783.69
3	4	-607.92	1509.91	41.32	2636.04	293.19	8206.07

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.52	1681.16	49.83	2786.08	-243.67	-7783.69
3	4	-607.92	1509.91	41.32	2636.04	293.19	8206.07

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.38	1663.15	50.26	2219.12	-263.41	-7705.76
3	4	-601.78	1500.83	40.90	2112.42	273.46	8106.71

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.23	1715.83	43.54	2118.90	-215.58	-7669.46
3	4	-600.35	1483.95	34.66	1994.43	243.17	8149.03

Combination No. 1158
 Group id: STR GP 5 Name: STRENGTH GROUP V

		Sheet #	232
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	579.13	1636.99	43.29	2361.51	-204.29	-7394.84
3	4	-577.26	1453.83	34.90	2212.23	254.47	7757.07

Combination No. 1159
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.18	1473.99	43.52	2119.97	-214.61	-8177.54
3	4	-600.31	1695.67	34.68	1993.36	244.15	7639.75

Combination No. 1160
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	579.13	1473.99	43.76	2337.77	-225.91	-7786.28
3	4	-577.25	1616.83	34.44	2235.98	232.85	7365.48

Combination No. 1161
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.70	1571.64	50.15	2770.18	-258.15	-8210.51
3	4	-618.09	1619.43	41.01	2651.93	278.72	8072.88

Combination No. 1162
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.98	1560.00	49.97	2234.09	-249.77	-8108.50
3	4	-611.37	1603.98	41.19	2097.45	287.09	7980.93

Combination No. 1163
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.82	1614.08	49.97	2401.49	-250.19	-8528.61

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-640.22	1660.59	41.18	2265.75	286.67	8393.52

Combination No. 1164
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	545.13	1422.90	34.21	1722.06	-166.94	-7251.35
3	4	-538.51	1522.08	25.14	1617.70	178.21	6850.54

Combination No. 1165
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	557.29	1437.24	34.03	1593.34	-158.38	-7466.41
3	4	-550.66	1573.12	25.32	1470.17	186.77	6986.35

Combination No. 1166
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.48	1679.03	50.03	2398.75	-252.68	-8342.83
3	4	-639.87	1595.64	41.13	2268.49	284.18	8569.29

Combination No. 1167
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.04	1537.70	50.17	2689.72	-259.08	-8314.35
3	4	-616.43	1699.19	40.99	2573.51	277.79	7921.13

Combination No. 1168
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.25	1635.55	50.14	2309.12	-257.88	-8198.04
3	4	-626.64	1583.77	41.02	2190.27	278.98	8332.21

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
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		Date	

Combination No. 1169
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.94	1772.61	50.02	2538.28	-252.30	-8180.82
3	4	-639.34	1555.94	41.14	2407.18	284.57	8715.85

Combination No. 1170
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.69	1706.36	50.15	2308.76	-258.21	-7820.86
3	4	-612.08	1512.96	41.01	2190.63	278.66	8289.14

Combination No. 1171
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.15	1605.56	50.05	2616.23	-253.66	-8568.32
3	4	-640.54	1677.17	41.11	2488.12	283.20	8363.22

Combination No. 1172
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.13	1601.33	50.16	2689.91	-258.91	-8355.34
3	4	-629.52	1635.57	41.00	2573.32	277.96	8257.99


Combination No. 1173
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	557.39	1596.81	34.04	1592.53	-159.12	-7120.44
3	4	-550.76	1413.55	25.30	1470.98	186.03	7335.31

Combination No. 1174
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	542.84	1535.81	34.20	1465.98	-166.46	-6957.94
3	4	-536.21	1396.42	25.15	1360.57	178.69	7077.76

Combination No. 1175

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.57	1674.92	49.97	2620.19	-250.06	-8398.24
3	4	-641.97	1607.81	41.19	2484.16	286.81	8574.41

Combination No. 1176

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.22	1633.66	49.97	2779.15	-249.99	-8033.71
3	4	-617.61	1557.41	41.19	2642.97	286.88	8235.82

Combination No. 1177

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.42	1618.40	50.13	2225.65	-257.46	-7940.38
3	4	-610.81	1545.58	41.03	2105.89	279.40	8132.88

Combination No. 1178

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.98	1715.01	43.49	2164.52	-213.46	-7666.55
3	4	-600.10	1483.64	34.71	2035.39	245.30	8144.81


Combination No. 1179

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.87	1711.86	50.06	2481.21	-254.01	-8510.11

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-652.26	1618.14	41.10	2353.87	282.85	8759.65

Combination No. 1180

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.67	1571.49	50.58	2509.82	-258.04	-8564.24
3	4	-643.80	1758.52	42.04	2386.27	287.06	8329.60

Combination No. 1181

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.47	1555.63	51.08	2290.87	-257.14	-7893.78
3	4	-608.90	1616.93	42.72	2157.41	295.06	7988.37

Combination No. 1182

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.88	1567.17	51.30	2835.80	-267.21	-7991.49
3	4	-615.31	1633.02	42.51	2724.44	285.00	8075.62

Combination No. 1183

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.29	1700.07	50.60	2509.17	-258.63	-8448.66
3	4	-658.42	1629.94	42.03	2386.92	286.47	8867.14


Combination No. 1184

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.96	1524.96	50.81	2791.67	-268.67	-8049.93
3	4	-612.09	1666.11	41.81	2691.45	276.43	7928.59

Units: US (English)

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Combination No. 1185
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.73	1515.89	50.39	2268.05	-248.93	-7948.81
3	4	-605.86	1648.09	42.24	2124.49	296.17	7849.95

Combination No. 1186
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.97	1628.61	50.59	2509.53	-258.31	8626.61
3	4	-657.10	1701.40	42.04	2386.56	286.79	8651.17

Combination No. 1187
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.73	1770.88	50.60	2508.81	-258.96	-8071.49
3	4	-643.86	1559.13	42.02	2387.27	286.14	8824.07

Combination No. 1188
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.03	1639.71	51.32	2278.61	-268.31	-7732.47
3	4	-611.46	1532.85	42.48	2169.67	283.89	8223.57


Combination No. 1189
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.52	1656.44	51.04	2848.82	-255.35	-7819.55
3	4	-617.95	1543.74	42.76	2711.42	296.85	8323.85

Combination No. 1190
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.97	1678.47	50.37	2813.99	-248.34	-7670.11
3	4	-612.10	1512.60	42.25	2669.12	296.76	8308.76

Combination No. 1191
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1191

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.83	1660.46	50.80	2247.03	-268.07	-7592.18
3	4	-605.96	1503.52	41.83	2145.51	277.03	8209.40

Combination No. 1192

Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1192

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.67	1713.14	44.08	2146.81	-220.25	-7555.88
3	4	-604.54	1486.64	35.59	2027.52	246.74	8251.71

Combination No. 1193

Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1193

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.58	1634.29	43.83	2389.42	-208.95	-7281.25
3	4	-581.44	1456.52	35.83	2245.32	258.04	7859.75

Combination No. 1194

Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1194

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.63	1501.42	44.06	2147.88	-219.27	-8063.96
3	4	-604.50	1698.37	35.61	2026.45	247.72	7742.43

Combination No. 1195


Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1195

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.57	1471.29	44.30	2365.68	-230.57	-7672.69

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-581.44	1619.52	35.37	2269.07	236.42	7468.16

Combination No. 1196

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.14	1568.94	50.69	2798.09	-262.81	-8096.92
3	4	-622.28	1622.13	41.94	2685.02	282.28	8175.57

Combination No. 1197

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.42	1557.30	50.50	2262.00	-254.44	-7994.92
3	4	-615.56	1606.68	42.12	2130.54	290.66	8083.61

Combination No. 1198

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.27	1611.38	50.51	2429.39	-254.86	-8415.03
3	4	-644.40	1663.28	42.11	2298.84	290.24	8496.21

Combination No. 1199

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	539.58	1420.21	34.75	1749.97	-171.60	-7137.77
3	4	-542.69	1524.78	26.06	1650.78	181.78	6953.22


Combination No. 1200

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	551.73	1434.55	34.57	1621.25	-163.04	-7352.83
3	4	-554.85	1575.82	26.25	1503.26	190.34	7089.04

Units: US (English)

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Combination No. 1201

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.92	1676.33	50.57	2426.66	-257.35	-8229.24
3	4	-644.06	1598.33	42.06	2301.58	287.75	8671.97

Combination No. 1202

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.48	1535.01	50.71	2717.63	-263.74	-8200.76
3	4	-620.62	1701.89	41.92	2606.60	281.36	8023.81

Combination No. 1203

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.69	1632.85	50.68	2337.03	-262.55	-8084.45
3	4	-630.83	1586.47	41.95	2223.36	282.55	8434.90

Combination No. 1204

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.39	1769.92	50.56	2566.19	-256.96	-8067.23
3	4	-643.52	1558.64	42.07	2440.27	288.14	8818.53

Combination No. 1205

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.13	1703.67	50.69	2336.67	-262.87	-7707.28
3	4	-616.27	1515.66	41.94	2223.72	282.23	8391.83

Combination No. 1206

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.60	1602.86	50.59	2644.14	-258.33	-8454.76
3	4	-644.73	1679.86	42.04	2521.21	286.77	8465.90

Combination No. 1207

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1207

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	551.84	1598.64	50.70	2717.82	-263.57	-8241.76
3	4	-633.71	1638.26	41.92	2606.41	281.53	8360.67

Combination No. 1208

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1208

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	551.84	1594.12	34.58	1620.44	-163.78	-7006.85
3	4	-554.95	1416.25	26.23	1504.07	189.60	7437.99

Combination No. 1209

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1209

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	537.28	1533.12	34.74	1493.89	-171.12	-6844.35
3	4	-540.40	1399.12	26.08	1393.65	182.26	7180.44

Combination No. 1210

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1210

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.02	1672.23	50.51	2648.10	-254.72	-8284.65
3	4	-646.15	1610.50	42.12	2517.25	290.38	8677.09

Combination No. 1211


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1211

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.66	1630.96	50.51	2807.06	-254.65	-7920.13

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-621.80	1560.11	42.12	2676.06	290.45	8338.50

Combination No. 1212

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1212

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.86	1615.71	50.67	2253.56	-262.13	-7826.80
3	4	-615.00	1548.27	41.96	2138.98	282.97	8235.56

Combination No. 1213

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1213

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.42	1712.31	44.03	2192.43	-218.13	-7552.96
3	4	-604.29	1486.33	35.64	2068.48	248.87	8247.49

Combination No. 1214

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1214

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.31	1709.17	50.60	2509.12	-258.68	-8396.53
3	4	-656.45	1620.84	42.03	2386.96	286.42	8862.33

Combination No. 1215

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1215

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.02	1574.08	-23.56	-1346.27	147.83	-9182.95
3	4	-595.49	1691.54	-24.57	-1359.97	-143.42	7357.95

Combination No. 1216


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1216

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.11	1558.44	-24.25	-1631.53	155.78	-8518.99
3	4	-560.29	1549.74	-25.06	-1654.73	-142.58	7010.21

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1217			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.52	1569.98	-24.04	-1086.60	145.72	-8616.70
3	4	-566.70	1565.82	-25.28	-1087.71	-152.64	7097.45

Combination No. 1218			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	672.63	1702.66	-23.55	-1346.92	147.24	-9067.38
3	4	-610.11	1562.96	-24.59	-1359.32	-144.01	7895.50

Combination No. 1219			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.31	1527.55	-23.33	-1064.42	137.21	-8668.65
3	4	-563.78	1599.14	-24.80	-1054.78	-154.05	6956.95


Combination No. 1220			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.08	1518.48	-23.76	-1588.03	156.95	-8567.52
3	4	-557.55	1581.11	-24.38	-1621.75	-134.31	6878.31

Combination No. 1221			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.32	1631.21	-23.56	-1346.56	147.57	-9245.33
3	4	-608.79	1634.42	-24.58	-1359.68	-143.69	7679.53

Combination No. 1222			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

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		Date	9/10/14
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.07	1773.48	-23.54	-1347.28	146.92	-8690.20
3	4	-595.55	1492.15	-24.59	-1358.96	-144.34	7852.43

Combination No. 1223			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.67	1642.52	-24.01	-1643.79	144.61	-8357.69
3	4	-562.85	1465.66	-25.30	-1642.47	-153.75	7245.40

Combination No. 1224			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.17	1659.26	-24.29	-1073.58	157.57	-8444.77
3	4	-569.34	1476.55	-25.02	-1100.72	-140.79	7345.68

Combination No. 1225			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.32	1681.06	-23.77	-1042.10	157.54	-8288.83
3	4	-563.79	1445.63	-24.36	-1077.11	-133.72	7337.11

Combination No. 1226			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.18	1663.05	-23.35	-1609.06	137.80	-8210.89
3	4	-557.65	1436.55	-24.79	-1600.72	-153.45	7237.75


Combination No. 1227			
Group Id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.76	1713.32	-17.02	-979.87	108.15	-8103.11

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-559.50	1422.08	-18.16	-993.67	-105.00	7351.84

Combination No. 1228

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.67	1634.47	-17.26	-737.25	119.44	-7828.48
3	4	-536.41	1391.96	-17.92	-775.87	-93.71	6959.88

Combination No. 1229

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.72	1501.60	-17.04	-978.79	109.12	-8611.18
3	4	-559.46	1633.80	-18.14	-994.74	-104.03	6842.56

Combination No. 1230

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.66	1471.47	-16.79	-760.99	97.83	-8219.92
3	4	-536.40	1554.96	-18.38	-752.13	-115.33	6568.29

Combination No. 1231

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.49	1571.54	-23.46	-1057.99	143.06	-8715.64
3	4	-573.96	1555.15	-24.68	-1061.21	-148.20	7203.92


Combination No. 1232

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.77	1559.89	-23.64	-1594.08	151.44	-8613.63
3	4	-567.24	1539.70	-24.50	-1615.69	-139.82	7111.97

Units: US (English)

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Combination No. 1233

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.62	1613.98	-23.63	-1426.69	151.02	-9033.74
3	4	-596.09	1596.31	-24.50	-1447.39	-140.24	7524.56

Combination No. 1234

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	556.93	1416.88	7.36	-315.74	44.10	-7581.02
3	4	-502.42	1463.72	-8.97	-315.80	-55.44	6157.74

Combination No. 1235

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.08	1431.22	-7.54	-444.46	52.66	-7796.07
3	4	-514.58	1514.77	-8.78	-463.33	-46.88	6293.55

Combination No. 1236

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.27	1678.93	-23.58	-1429.43	148.53	-8847.96
3	4	-595.74	1531.36	-24.56	-1444.66	-142.73	7700.33

Combination No. 1237

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.83	1537.60	-23.44	-1138.46	142.13	-8819.48
3	4	-572.30	1634.91	-24.70	-1139.63	-149.12	7052.17

Combination No. 1238

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.04	1635.45	-23.47	-1519.06	143.33	-8703.17
3	4	-582.52	1519.49	-24.67	-1522.87	-147.93	7463.26

Combination No. 1239

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.48	1772.51	-23.59	-1289.90	148.91	-8685.95
3	4	-595.21	1491.66	-24.55	-1305.96	-142.34	7846.89

Combination No. 1240

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.48	1706.26	-23.46	-1519.42	143.00	-8326.00
3	4	-567.96	1448.68	-24.68	-1522.51	-148.25	7420.19

Combination No. 1241

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.94	1605.46	-23.56	-1211.95	147.55	-9073.45
3	4	-596.42	1612.89	-24.58	-1225.02	-143.71	7494.26

Combination No. 1242

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.92	1601.23	-23.44	-1138.27	142.30	-8860.47
3	4	-585.39	1571.29	-24.69	-1139.82	-148.95	7389.03


Combination No. 1243

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.19	1590.79	-17.53	-445.27	51.92	-7450.10

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-514.68	1355.19	-8.80	-462.52	-47.62	6642.51

Combination No. 1244

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.64	1529.79	-7.37	-571.82	44.57	-7287.60
3	4	-500.13	1338.06	-8.96	-572.93	-54.97	6384.96

Combination No. 1245

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.37	1674.82	-23.64	-1207.99	151.16	-8903.37
3	4	-597.84	1543.53	-24.50	-1228.98	-140.10	7705.45

Combination No. 1246

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.01	1633.56	-23.64	-1049.03	151.23	-8538.85
3	4	-573.48	1493.13	-24.50	-1070.18	-140.03	7366.86

Combination No. 1247

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.21	1618.30	-23.48	-1602.53	143.75	-8445.52
3	4	-566.68	1481.30	-24.66	-1607.25	-147.51	7263.92


Combination No. 1248

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.51	1712.49	-17.06	-934.25	110.27	-8100.19
3	4	-559.25	1421.77	-18.11	-952.72	-102.88	7347.62

Units: US (English)

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Combination No. 1249									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.66	1711.76	-23.55	-1346.97	147.20	-9015.24
3	4	-608.13	1553.86	-24.59	-1359.27	-144.06	7890.69

Combination No. 1250									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.02	1593.91	-19.43	-1201.47	133.85	-9339.77
3	4	-611.13	1736.10	-22.64	-1244.43	-123.44	7582.70

Combination No. 1251									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.12	1578.26	-20.12	-1486.73	141.79	-8675.81
3	4	-575.93	1594.30	-23.13	-1539.19	-122.60	7234.95

Combination No. 1252									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.53	1589.80	-19.90	-941.80	131.73	-8773.52
3	4	-582.34	1610.38	-23.34	-972.16	-132.66	7322.20


Combination No. 1253									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	683.64	1722.49	-19.42	-1202.12	133.26	-9224.19
3	4	-625.75	1607.52	-22.65	-1243.78	-124.03	8120.25

Combination No. 1254									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.31	1547.37	-19.20	-919.62	123.23	-8825.47
3	4	-579.42	1643.70	-22.87	-939.24	-134.06	7181.69

Combination No. 1255									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.09	1538.31	-19.63	-1443.23	142.96	-8724.34
3	4	-573.19	1625.67	-22.44	-1506.20	-114.33	7103.06

Combination No. 1256									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.32	1651.03	-19.42	-1201.76	133.59	-9402.14
3	4	-624.43	1678.98	-22.64	-1244.14	-123.70	7904.28

Combination No. 1257									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.08	1793.30	-19.41	-1202.48	132.93	-8847.02
3	4	-611.19	1536.71	-22.66	-1243.42	-124.36	8077.18

Combination No. 1258									
Group id: STR GP 5 Name: STRENGTH GROUP V									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.68	1662.34	-19.88	-1498.99	130.63	-8514.50
3	4	-578.49	1510.22	-23.37	-1526.93	-133.76	7470.15

Combination No. 1259									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.17	1679.08	-20.16	-928.78	143.59	-8601.58

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-584.99	1521.11	-23.09	-985.18	-120.80	7570.43

Combination No. 1260
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.33	1700.88	-19.64	-897.29	143.56	-8445.64
3	4	-579.43	1490.19	-22.43	-961.57	-113.73	7561.86

Combination No. 1261
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.18	1662.87	-19.21	-1464.26	123.82	-8367.71
3	4	-573.29	1481.11	-22.85	-1485.18	-133.47	7462.50

Combination No. 1262
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.77	1733.14	-12.88	-835.07	94.17	-8259.92
3	4	-575.14	1466.64	-16.22	-878.13	-85.02	7576.59

Combination No. 1263
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.68	1654.29	-13.13	-592.45	105.46	-7985.30
3	4	-552.05	1436.52	-15.98	-660.33	-73.72	7184.63

Combination No. 1264
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.73	1521.42	-12.91	-833.99	95.14	-8768.00
3	4	-575.10	1678.36	-16.20	-879.20	-84.04	7067.30

Units: US (English)

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Combination No. 1265
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.67	1491.29	-12.66	-616.19	83.84	-8376.74
3	4	-552.05	1599.52	-16.45	-636.58	-95.34	6793.04

Combination No. 1266
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.50	1591.36	-19.33	-913.19	129.08	-8872.46
3	4	-589.61	1599.71	-22.74	-945.67	-128.21	7428.67

Combination No. 1267
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.78	1579.72	-19.51	-1449.28	137.46	-8770.45
3	4	-582.89	1584.26	-22.56	-1500.15	-119.84	7336.72

Combination No. 1268
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.63	1633.80	-19.50	-1281.89	137.04	-9190.56
3	4	-611.73	1640.87	-22.57	-1331.85	-120.25	7749.31


Combination No. 1269
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	567.94	1436.70	-3.23	-170.94	30.12	-7737.83
3	4	-518.07	1508.28	-7.03	-200.26	-35.46	6382.49

Combination No. 1270
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	253
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.09	1451.04	-3.41	-299.66	38.67	-7952.89
3	4	-530.22	1559.33	-6.85	-347.79	-26.90	6518.30

Combination No. 1271

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.28	1698.75	-19.45	-1284.63	134.55	-9004.78
3	4	-611.39	1575.92	-22.62	-1329.12	-122.74	7925.08

Combination No. 1272

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.84	1557.42	-19.31	-993.65	128.15	-8976.30
3	4	-587.95	1679.47	-22.76	-1024.09	-129.14	7276.92

Combination No. 1273

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.05	1655.27	-19.33	-1374.26	129.35	-8859.99
3	4	-598.16	1564.05	-22.74	-1407.33	-127.94	7688.00

Combination No. 1274

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	668.74	1792.33	-19.45	-1145.09	134.93	-8842.77
3	4	-610.85	1536.22	-22.61	-1190.42	-122.36	8071.64


Combination No. 1275

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.49	1726.08	-19.33	-1374.62	129.02	-8482.81

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-583.60	1493.24	-22.74	-1406.97	-128.27	7644.93

Combination No. 1276

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.95	1625.28	-19.42	-1067.15	133.57	-9230.27
3	4	-612.06	1657.45	-22.64	-1109.48	-123.72	7719.01

Combination No. 1277

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.93	1621.05	-19.31	-993.47	128.32	-9017.29
3	4	-601.04	1615.85	-22.76	-1024.28	-128.97	7613.78

Combination No. 1278

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.20	1610.61	-3.40	-300.47	37.93	-7606.92
3	4	-530.33	1399.76	-6.86	-346.98	-27.64	6867.26

Combination No. 1279

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	565.64	1549.61	-3.24	-427.02	30.59	-7444.42
3	4	-515.77	1382.62	-7.02	-457.39	-34.98	6609.71


Combination No. 1280

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.38	1694.64	-19.50	-1063.19	137.17	-9060.19
3	4	-613.48	1588.09	-22.57	-1113.44	-120.12	7930.20

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 255
		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Combination No. 1281
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.02	1653.38	-19.50	-904.23	137.24	-8695.66
3	4	-589.13	1537.69	-22.56	-954.63	-120.05	7591.61

Combination No. 1282
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.22	1638.12	-19.34	-1457.73	129.77	-8602.33
3	4	-582.33	1525.86	-22.73	-1491.71	-127.52	7488.66

Combination No. 1283
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.52	1732.32	-12.93	-789.45	96.29	-8257.01
3	4	-574.90	1466.33	-16.18	-837.18	-82.90	7572.37

Combination No. 1284
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	681.67	1731.58	-19.42	-1202.16	133.22	-9172.06
3	4	-623.78	1598.42	-22.65	-1243.73	-124.07	8115.44


Combination No. 1285
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.25	1592.82	-14.55	-1030.31	116.40	-9302.33
3	4	-612.67	1737.19	-20.06	-1104.38	-99.36	7618.31

Combination No. 1286
Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
		www.bentley.com
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.35	1577.18	-15.24	-1315.56	124.35	-8638.37
3	4	-577.47	1595.38	-20.55	-1399.15	-98.52	7270.56

Combination No. 1287
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.76	1588.72	-15.03	-114.29	114.29	-8736.08
3	4	-583.88	1611.46	-20.77	-832.12	-108.58	7357.80

Combination No. 1288
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	681.87	1721.40	-14.54	-1030.96	115.81	-9186.75
3	4	-627.29	1608.60	-20.08	-1103.73	-99.95	8155.86

Combination No. 1289
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.54	1546.29	-14.33	-748.46	105.78	-8788.03
3	4	-580.96	1644.78	-20.29	-799.20	-109.98	7217.30

Combination No. 1290
Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.31	1537.22	-14.75	-1272.07	125.52	-8686.90
3	4	-574.73	1626.75	-19.87	-1366.16	-90.25	7138.66

Combination No. 1291
Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	680.55	1649.95	-14.55	-1030.60	116.14	-9364.71

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-625.97	1680.06	-20.07	-1104.09	-99.62	7939.89

Combination No. 1292

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.31	1792.22	-14.53	-1031.32	115.49	-8809.58
3	4	-612.73	1537.79	-20.08	-1103.37	-100.28	8112.79

Combination No. 1293

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.91	1661.26	-15.00	-1327.82	113.18	-8477.06
3	4	-580.03	1511.30	-20.79	-1386.89	-109.68	7505.76

Combination No. 1294

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.40	1677.99	-15.28	-757.62	126.14	-8564.15
3	4	-586.52	1522.19	-20.52	-845.14	-96.72	7606.04

Combination No. 1295

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.55	1699.80	-14.76	-726.13	126.11	-8408.21
3	4	-580.97	1491.27	-19.85	-821.52	-89.65	7597.47


Combination No. 1296

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.41	1681.79	-14.34	-1293.09	106.37	-8330.27
3	4	-574.83	1482.19	-20.28	-1345.14	-109.39	7498.11

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Combination No. 1297

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.00	1732.06	-8.01	-663.91	76.72	-8222.48
3	4	-576.68	1467.72	-13.65	-738.08	-60.94	7612.19

Combination No. 1298

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.90	1653.21	-8.25	-421.29	88.02	-7947.86
3	4	-553.59	1437.60	-13.41	-520.28	-49.64	7220.23

Combination No. 1299

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.95	1520.34	-8.03	-462.83	77.69	-8730.56
3	4	-576.64	1679.45	-13.63	-739.16	-59.96	7102.91

Combination No. 1300

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.90	1490.21	-7.79	-445.03	66.40	-8339.30
3	4	-553.59	1600.60	-13.87	-496.54	-71.26	6828.64

Combination No. 1301

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.73	1590.28	-14.45	-742.03	111.63	-8835.02
3	4	-591.15	1600.80	-20.17	-805.62	-104.13	7464.28

Combination No. 1302

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.01	1578.63	-14.63	-1278.12	120.01	-8733.01
3	4	-584.43	1585.34	-19.99	-1360.11	-95.76	7372.32

Combination No. 1303

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.85	1632.72	-14.62	-1110.73	119.59	-9153.12
3	4	-613.27	1641.95	-20.00	-1191.81	-96.17	7784.92

Combination No. 1304

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	566.17	1435.62	1.65	0.23	12.67	-7700.39
3	4	-519.61	1509.36	-4.46	-60.22	-11.38	6418.10

Combination No. 1305

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.32	1449.96	1.46	-128.50	21.23	-7915.45
3	4	-531.76	1560.41	-4.27	-207.74	2.82	6553.91

Combination No. 1306

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.51	1697.66	-14.57	-1113.47	117.10	-8967.34
3	4	-612.93	1577.00	-20.05	-1189.07	-98.66	7960.69


Combination No. 1307

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.07	1556.34	-14.43	822.49	110.70	-8938.86

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-589.49	1680.56	-20.19	-884.05	-105.06	7312.52

Combination No. 1308

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.28	1654.19	-14.46	-1203.10	111.90	-8822.55
3	4	-599.70	1565.14	-20.16	-1267.28	-103.86	7723.61

Combination No. 1309

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.97	1791.25	-14.58	-973.93	117.48	-8805.33
3	4	-612.39	1537.31	-20.04	-1050.38	-98.28	8107.24

Combination No. 1310

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.72	1725.00	-14.45	-1203.46	111.57	-8445.38
3	4	-585.14	1494.32	-20.17	-1266.93	-104.19	7680.54

Combination No. 1311

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	668.18	1624.20	-14.55	-895.99	116.12	-9192.83
3	4	-613.60	1658.53	-20.07	-969.44	-99.64	7754.62


Combination No. 1312

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.16	1619.97	-14.44	-822.31	110.88	-8979.85
3	4	-602.58	1616.93	-20.18	-884.24	-104.89	7649.39

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	261
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1313
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.42	1609.53	1.48	-129.31	20.49	-7569.48
3	4	-531.86	1400.84	-4.29	-206.93	-3.56	6902.87

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	563.87	1548.53	1.64	-255.86	13.14	-7406.98
3	4	-517.31	1383.71	-4.45	-317.35	-10.90	6645.32

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.60	1693.56	-14.63	-492.03	119.73	-9022.75
3	4	-615.02	1589.17	-19.99	-973.40	-96.04	7965.80


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.25	1652.29	-14.63	-733.07	119.80	-8668.22
3	4	-590.67	1538.78	-19.99	-814.59	-95.97	7627.22

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.45	1637.04	-14.47	-1286.56	112.32	-8564.89
3	4	-583.87	1526.94	-20.15	-1351.67	-103.44	7524.27

Combination No. 1318
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	262
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.75	1731.23	-8.05	-618.29	78.84	-8219.57
3	4	-576.44	1467.41	-13.61	-697.13	-58.81	7607.97

Combination No. 1319
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	679.90	1730.50	-14.54	-1031.00	115.77	-9134.62
3	4	-625.32	1599.51	-20.08	-1103.69	-99.99	8151.04

Combination No. 1320
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.42	1590.26	-11.40	-925.32	106.90	-9201.57
3	4	-616.62	1739.75	-18.69	-1023.33	-84.78	7712.06

Combination No. 1321
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.52	1574.61	-12.09	-1210.57	114.85	-8537.61
3	4	-581.42	1597.95	-19.18	-1318.10	83.94	7364.31

Combination No. 1322
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.93	1586.15	-11.87	-665.64	104.79	-8635.32
3	4	-587.83	1614.03	-19.40	-751.07	-94.00	7451.55

Combination No. 1323
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	677.04	1718.84	-11.39	-925.96	106.31	-9085.99

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 263	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-631.24	1611.17	-18.70	-1022.68	-85.38	8249.60

Combination No. 1324

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.71	1543.72	-11.17	-643.46	96.28	-8687.27
3	4	-584.91	1647.35	-18.92	-718.15	-95.41	7311.05

Combination No. 1325

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.48	1534.66	-11.60	-1167.08	116.02	-8586.14
3	4	-578.68	1629.32	-18.49	-1285.11	-75.67	7232.41

Combination No. 1326

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.72	1647.38	-11.39	-925.61	106.64	-9263.94
3	4	-629.92	1682.63	-18.70	-1023.04	-85.05	8033.63

Combination No. 1327

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.48	1789.65	-11.38	-926.32	105.99	-8708.82
3	4	-616.68	1540.36	-18.71	-1022.32	-85.70	8206.53


Combination No. 1328

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.08	1658.69	-11.85	-1222.83	103.68	-8376.30
3	4	-583.98	1513.87	-19.42	-1305.84	-95.11	7599.50

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1329

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.57	1675.43	-12.13	-652.62	116.64	-8463.39
3	4	-590.47	1524.76	-19.14	-764.09	-82.15	7699.78

Combination No. 1330

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.72	1697.23	-11.61	-621.14	116.61	-8307.44
3	4	-584.92	1493.84	-18.48	-740.47	-75.08	7691.22

Combination No. 1331

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.58	1679.22	-11.18	-1188.10	96.87	-8229.51
3	4	-578.78	1484.76	-18.91	-1264.08	-94.81	7591.86

Combination No. 1332

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.16	1729.49	-4.85	-558.91	67.22	-8121.72
3	4	-580.63	1470.29	-12.28	-657.03	-46.36	7705.94

Combination No. 1333

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.07	1650.64	-5.10	-316.30	78.52	-7847.10
3	4	-557.54	1440.17	-12.03	-439.23	-35.07	7313.98

Combination No. 1334

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.12	1517.77	-4.87	-557.84	68.19	-8629.80
3	4	-580.59	1682.01	-12.26	-658.10	-45.39	7196.66

Combination No. 1335

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.07	1487.64	-4.63	-340.04	56.90	-8238.54
3	4	-557.53	1603.17	-12.50	-415.49	-56.69	6922.39

Combination No. 1336

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.89	1587.71	-11.30	-637.04	102.13	-8734.26
3	4	-595.09	1603.36	-18.79	-724.57	-89.56	7558.03

Combination No. 1337

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.17	1576.07	-11.48	-1173.13	110.51	-8632.25
3	4	-588.37	1587.91	-18.61	-1279.06	-81.18	7466.07

Combination No. 1338

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.02	1630.15	-11.47	-1005.74	110.09	-9052.36
3	4	-617.22	1644.52	-18.62	-1110.75	-81.60	7878.67


Combination No. 1339

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	561.33	1433.05	4.80	105.22	3.17	-7599.63

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-523.55	1511.93	-3.09	20.83	3.20	6511.84

Combination No. 1340

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.49	1447.39	4.62	-23.51	11.73	-7814.69
3	4	-535.71	1562.98	-2.90	-126.69	11.75	6647.65

Combination No. 1341

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.68	1695.10	-11.41	-1008.47	107.60	-8866.58
3	4	-616.87	1579.57	-18.68	-1108.02	-84.09	8054.43

Combination No. 1342

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.23	1553.77	-11.28	-717.50	101.20	-8838.10
3	4	-593.43	1683.12	-18.81	-802.99	-90.48	7406.27

Combination No. 1343

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.45	1651.62	-11.30	-1098.11	102.40	-8721.79
3	4	-603.64	1567.70	-18.79	-1186.23	-89.29	7817.36


Combination No. 1344

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.14	1788.68	-11.42	-868.94	107.98	-8704.57
3	4	-616.34	1539.88	-18.67	-969.32	-83.71	8200.99

Units: US (English)

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		Job #	59219
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		Date	

Combination No. 1345
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.89	1722.43	-11.30	-1098.47	102.07	-8344.61
3	4	-589.09	1496.89	-18.79	-1185.87	-89.61	7774.29

Combination No. 1346
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.35	1621.63	-11.39	-791.00	106.62	9092.07
3	4	-617.55	1661.10	-18.70	-888.38	-85.07	7848.36

Combination No. 1347
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.32	1617.40	-11.28	-777.31	101.38	-8879.09
3	4	-606.52	1619.50	-18.81	-803.18	-90.31	7743.13

Combination No. 1348
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.59	1606.96	4.64	-24.32	10.99	-7468.72
3	4	-535.81	1403.41	-2.92	-125.88	11.01	6996.61


Combination No. 1349
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	559.04	1545.96	4.79	-150.86	3.64	-7306.22
3	4	-521.26	1386.27	-3.07	-236.30	3.67	6739.06

Combination No. 1350
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.77	1690.99	-11.47	-787.04	110.23	-8921.99
3	4	-618.97	1591.74	-18.62	-892.34	-81.46	8059.55

Combination No. 1351
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1351

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.41	1649.73	-11.47	-628.07	110.30	-8557.46
3	4	-594.61	1541.34	-18.62	-733.54	-81.39	7720.97

Combination No. 1352
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1352

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.61	1634.47	-11.31	-1181.57	102.82	-8464.13
3	4	-587.81	1529.51	-18.78	-1270.61	-88.87	7618.02

Combination No. 1353
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1353

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.92	1728.67	-4.90	-513.29	69.34	-8118.81
3	4	-580.38	1469.98	-12.23	-616.08	-44.24	7701.72

Combination No. 1354
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1354

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.07	1727.93	-11.39	-926.01	106.27	-9033.86
3	4	-629.26	1602.07	-18.70	-1022.63	-85.42	8244.79


Combination No. 1355
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1355

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.33	1585.37	-10.47	-899.92	105.85	-9009.27

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-624.42	1744.64	-18.54	-1008.37	-81.55	7894.17

Combination No. 1356

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.43	1569.73	-11.15	-1185.17	113.79	-8345.30
3	4	-589.22	1602.83	-19.03	-1303.14	-80.71	7546.42

Combination No. 1357

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.84	1581.27	-10.94	-640.24	103.73	-8443.01
3	4	-595.63	1618.92	-19.25	-736.11	-90.77	7633.66

Combination No. 1358

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.95	1713.95	-10.45	-900.56	105.26	-8893.69
3	4	-639.04	1616.06	-18.56	-1007.72	-82.14	8431.72

Combination No. 1359

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.62	1538.84	-10.24	-618.06	95.23	-8494.96
3	4	-592.71	1652.23	-18.77	-703.19	-92.17	7493.16


Combination No. 1360

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.39	1529.77	-10.66	-1141.68	114.96	-8393.83
3	4	-586.48	1634.21	-18.35	-1270.15	-72.44	7414.52

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.63	1642.49	-10.46	-900.21	105.59	-9071.64
3	4	-637.72	1687.52	-18.55	-1008.08	-81.82	8215.75

Combination No. 1361

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.39	1784.76	-10.45	-900.92	104.93	-8516.52
3	4	-624.48	1545.24	-18.56	-1007.36	-82.47	8388.65

Combination No. 1362

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.39	1784.76	-10.45	-900.92	104.93	-8516.52
3	4	-624.48	1545.24	-18.56	-1007.36	-82.47	8388.65

Combination No. 1363

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.99	1653.81	-10.91	-1197.43	102.63	-8184.00
3	4	-591.78	1518.75	-19.28	-1290.88	-91.87	7781.62

Combination No. 1364

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.48	1670.54	-11.19	-627.22	115.59	-8271.08
3	4	-598.27	1529.64	-19.00	-749.13	-78.92	7881.90

Combination No. 1365

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.63	1692.35	-10.68	-595.74	115.55	-8115.14
3	4	-592.72	1498.72	-18.34	-725.51	-71.85	7873.33

Combination No. 1366

Group Id: STR GP 5 Name: STRENGTH GROUP V

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Memb	Node	Fx	Fy	Fz	Mx	My	Mz		
1	1	614.07	1674.34	-10.25	-1162.70	95.82	-8037.20		
3	4	-586.58	1489.64	-18.76	-1249.13	-91.58	7773.97		

Combination No. 1367

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1367

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	614.07	1724.61	-3.92	-533.51	66.16	-7929.42
3	4	-588.43	1475.18	-12.13	-642.08	-43.13	7888.05

Combination No. 1368

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1368

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	590.98	1645.76	-4.16	-290.90	77.46	-7654.80
3	4	-565.34	1445.05	-11.89	-424.27	-31.83	7496.09

Combination No. 1369

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1369

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	614.03	1512.89	-3.94	-532.44	67.14	-8437.50
3	4	-588.39	1686.90	-12.11	-643.15	-42.15	7378.77

Combination No. 1370

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1370

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	590.98	1482.76	-3.70	-314.64	55.84	-8046.23
3	4	-565.33	1608.05	-12.35	-400.53	-53.45	7104.50

Combination No. 1371


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1371

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	631.80	1582.82	-10.36	-611.64	101.08	-8541.95

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
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Date		Date	

Pier 12 Straddle.rcp									
Memb	Node	Fx	Fy	Fz	Mx	My	Mz		
3	4	-602.89	1608.25	-18.65	-709.62	-86.32	7740.14		

Combination No. 1372

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1372

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	625.08	1571.18	-10.54	-1147.73	109.45	-8439.95
3	4	-596.17	1592.80	-18.47	-1264.10	-77.95	7648.18

Combination No. 1373

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1373

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	653.93	1625.26	-10.53	-980.34	109.04	-8860.05
3	4	-625.02	1649.40	-18.48	-1095.80	-78.36	8060.78

Combination No. 1374

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1374

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	552.24	1428.17	5.74	130.62	2.11	-7407.33
3	4	-531.35	1516.82	-2.94	35.79	6.43	6693.95

Combination No. 1375

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1375

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	564.40	1442.51	5.55	1.89	10.67	-7622.38
3	4	-543.51	1567.86	-2.75	-111.74	14.99	6829.77

Combination No. 1376


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1376

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	653.58	1690.21	-10.48	-983.07	106.55	-8674.27
3	4	-624.67	1594.45	-18.53	-1093.06	80.85	8236.55

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Combination No. 1377			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.14	1548.89	-10.34	-492.10	100.15	-8645.79
3	4	-601.23	1688.01	-18.67	-788.04	-87.25	7588.38

Combination No. 1378			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.36	1646.73	-10.37	-1072.71	101.35	-8529.48
3	4	-611.44	1572.59	-18.64	-1171.28	-86.05	7999.47

Combination No. 1379			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.05	1783.80	-10.49	-843.54	106.93	-8512.26
3	4	-624.14	1544.76	-18.52	-954.37	-80.47	8383.10


Combination No. 1380			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.80	1777.55	-10.36	-1073.07	101.02	-8152.31
3	4	-596.89	1501.77	-18.65	-1170.92	-86.38	7956.40

Combination No. 1381			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.26	1616.74	-10.46	-765.60	105.57	-8899.76
3	4	-625.35	1665.98	-18.55	-873.43	-81.84	8030.48

Combination No. 1382			
Group id: STR GP 5 Name: STRENGTH GROUP V			

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		Job #	59219
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		Date	9/10/14
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.23	1612.52	-10.35	-491.91	100.32	-8686.78
3	4	-614.32	1624.38	-18.66	-788.23	-87.08	7925.25

Combination No. 1383			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	564.50	1602.08	5.57	1.08	9.93	-7276.41
3	4	-543.61	1408.29	-2.77	-110.92	14.25	7118.73

Combination No. 1384			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	549.95	1541.08	5.73	-125.46	2.59	-7113.91
3	4	-529.06	1391.16	-2.93	-221.34	6.91	6921.18

Combination No. 1385			
Group id: STR GP 5 Name: STRENGTH GROUP V			


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.68	1686.11	-10.54	-761.64	109.17	-8729.68
3	4	-626.77	1596.62	-18.47	-877.39	-78.23	8241.66

Combination No. 1386			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.32	1644.84	-10.54	-602.67	109.24	-8365.16
3	4	-602.41	1546.23	-18.47	-718.58	-78.16	7903.08

Combination No. 1387			
Group id: STR GP 5 Name: STRENGTH GROUP V			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.52	1629.59	-10.38	-1156.17	101.77	-8271.83

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-595.61	1534.39	-18.63	-1255.66	-85.64	7800.13

Combination No. 1388
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.83	1723.78	-3.97	-487.89	68.29	-7926.50
3	4	-588.18	1474.86	-12.09	-601.12	-41.01	7883.83

Combination No. 1389
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.97	1723.05	-10.45	-900.61	105.22	-8841.55
3	4	-637.06	1606.96	-18.56	-1007.68	-82.18	8426.90

Combination No. 1390
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.77	1582.68	-9.93	-872.01	101.18	-8895.68
3	4	-628.60	1747.33	-17.62	-975.28	-77.98	7996.85

Combination No. 1391
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.87	1567.03	-10.61	-1157.26	109.13	-8231.72
3	4	-593.41	1605.53	-18.10	-1270.05	-77.14	7649.11

Combination No. 1392
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.28	1578.57	-10.40	-612.33	99.07	-8329.43
3	4	-599.81	1621.61	-18.32	-703.02	-87.20	7736.35

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1393
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.39	1711.26	-9.91	-872.65	100.59	-8780.10
3	4	-643.22	1618.75	-17.63	-974.63	-78.57	8534.40

Combination No. 1394
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.06	1536.15	-9.70	-590.15	90.56	-8381.38
3	4	-596.89	1654.92	-17.84	-670.10	-88.60	7595.85

Combination No. 1395
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.84	1527.08	-10.12	-1113.77	110.30	-8280.25
3	4	-590.67	1636.90	-17.42	-1237.06	-68.87	7517.21

Combination No. 1396
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.07	1639.80	-9.92	-872.30	100.92	-8958.05
3	4	-641.91	1690.21	-17.62	-974.99	-78.25	8318.43


Combination No. 1397
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.83	1782.07	-9.91	-873.01	100.27	-8402.93
3	4	-628.66	1547.94	-17.64	-974.28	-78.90	8491.33

Combination No. 1398
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.43	1651.11	-10.37	-1169.52	97.96	-8070.41
3	4	-595.97	1521.45	-18.35	-1257.79	-88.30	7884.30

Combination No. 1399

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.92	1667.85	-10.65	-599.31	110.92	-8157.50
3	4	-602.46	1532.34	-18.07	-716.04	-75.35	7994.58

Combination No. 1400

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.08	1689.65	-10.14	-567.83	110.89	-8001.55
3	4	-596.91	1501.42	-17.41	-692.42	-68.28	7976.01

Combination No. 1401

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.93	1671.64	-9.71	-1134.79	91.15	-7923.62
3	4	-590.76	1492.33	-17.83	-1216.04	88.01	7876.65

Combination No. 1402

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.52	1721.91	-3.38	-505.60	61.50	-7815.83
3	4	-592.62	1477.87	-11.20	-608.99	-39.56	7990.74


Combination No. 1403

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.43	1643.06	-3.62	-262.99	72.79	-7541.21

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-569.52	1447.75	-10.96	-391.19	-28.26	7598.78

Combination No. 1404

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.48	1510.19	-3.40	-504.53	62.47	-8323.91
3	4	-592.58	1689.59	-11.18	-610.06	-38.59	7481.46

Combination No. 1405

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.42	1480.07	-3.16	-286.73	51.17	-7932.65
3	4	-569.52	1610.75	-11.42	-367.44	-49.88	7207.19

Combination No. 1406

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.25	1580.13	-9.82	-583.73	96.41	-8428.37
3	4	-607.08	1610.94	-17.72	-676.53	-82.75	7842.82

Combination No. 1407

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.53	1568.49	-10.00	-1119.82	104.79	-8326.36
3	4	-600.36	1595.49	-17.54	-1231.01	-74.38	7750.87


Combination No. 1408

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.38	1622.57	-9.99	-952.43	104.37	-8746.47
3	4	-629.21	1652.10	-17.55	-1062.71	-74.79	8163.46

Units: US (English)

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Combination No. 1409

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	546.69	1425.47	6.28	158.53	-2.55	-7293.74
3	4	-535.54	1519.51	-2.01	68.88	10.00	6796.64

Combination No. 1410

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	558.84	1439.81	6.09	29.80	6.01	-7508.80
3	4	-547.69	1570.56	-1.83	-78.65	18.56	6932.45

Combination No. 1411

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.03	1687.52	-9.94	-955.16	101.88	-8560.69
3	4	-628.86	1587.15	-17.60	-1059.97	-77.28	8339.23

Combination No. 1412

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.59	1546.20	-9.80	-664.19	95.48	-8532.21
3	4	-605.42	1690.70	-17.74	-754.95	-83.68	7691.07

Combination No. 1413

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.80	1644.04	-9.83	-1044.80	96.68	-8415.90
3	4	-615.63	1575.28	-17.71	-1138.19	-82.48	8102.16


Combination No. 1414

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.80	1644.04	-9.83	-1044.80	96.68	-8415.90
3	4	-615.63	1575.28	-17.71	-1138.19	-82.48	8102.16

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.49	1781.10	-9.95	-815.63	102.26	-8398.68
3	4	-628.32	1547.45	-17.59	-921.28	-76.90	8485.79

Combination No. 1415

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1416

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.24	1714.85	-9.82	-1045.16	96.35	-8038.72
3	4	-601.07	1504.47	-17.72	-1137.83	-82.81	8059.09

Combination No. 1417

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1418

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.70	1614.05	-9.92	-737.69	100.90	-8786.18
3	4	-629.53	1668.68	-17.62	-840.34	-78.27	8133.16

Combination No. 1419

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1420

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.68	1609.82	-9.81	-664.00	95.65	-8573.20
3	4	-618.51	1627.08	-17.73	-755.14	-83.51	8027.93

Combination No. 1421

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1422

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	558.95	1599.38	6.11	28.99	5.27	-7162.83
3	4	-547.80	1410.98	-1.84	-77.83	17.82	7281.41

Combination No. 1423


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1424

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	544.39	1538.38	6.27	-97.55	2.08	-7000.33
3	4	-544.39	1538.38	6.27	-97.55	2.08	-7000.33

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-533.25	1393.85	-2.00	-188.25	10.48	7023.86

Combination No. 1420

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.13	1683.41	-10.00	-733.73	104.50	-8616.10
3	4	-630.96	1599.31	-17.54	-844.30	-74.66	8344.35

Combination No. 1421

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.77	1642.15	-10.00	-574.76	104.57	-8251.57
3	4	-606.60	1548.92	-17.54	-685.49	-74.59	8005.76

Combination No. 1422

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.97	1626.89	-9.84	-1128.26	97.10	-8158.24
3	4	-599.80	1537.08	-17.70	-1222.57	-82.07	7902.82

Combination No. 1423

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.27	1721.09	-3.43	-459.98	63.62	-7812.92
3	4	-592.37	1477.56	-11.16	-568.03	-37.44	7986.52


Combination No. 1424

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.42	1720.36	-9.91	-872.70	100.55	-8727.97
3	4	-641.25	1609.65	-17.63	-974.59	-78.61	8529.59

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Date	9/10/14
		Checked	
		Phone: 1-800-778-4277	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.34	1577.81	23.51	1510.44	-145.41	-8187.35
3	4	-680.87	1816.58	24.63	1518.82	145.84	9057.13

Combination No. 1425

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.34	1577.81	23.51	1510.44	-145.41	-8187.35
3	4	-680.87	1816.58	24.63	1518.82	145.84	9057.13

Combination No. 1426

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.15	1561.95	24.01	1291.50	-144.52	-7516.89
3	4	-645.97	1674.99	25.31	1289.97	153.84	8715.90

Combination No. 1427

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.55	1573.49	24.23	1836.43	-154.58	-7614.60
3	4	-652.38	1691.08	25.09	1857.00	143.78	8803.14

Combination No. 1428

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.96	1706.39	23.52	1509.79	-146.01	-8071.77
3	4	-695.49	1688.00	24.61	1519.47	145.25	9594.67

Combination No. 1429

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.63	1531.28	23.74	1792.29	-156.04	-7673.05
3	4	-649.16	1724.17	24.40	1824.01	135.22	8656.12

Combination No. 1430

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.41	1522.21	23.31	1268.68	-136.30	-7571.92
3	4	-642.93	1706.15	24.82	1257.05	154.96	8577.48

Combination No. 1431

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1431

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.64	1634.93	23.52	1510.15	-145.68	-8249.73
3	4	-694.17	1759.46	24.62	1519.11	145.58	9378.70

Combination No. 1432

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1432

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.40	1777.20	23.53	1509.43	-146.33	-7694.60
3	4	-680.93	1617.19	24.61	1519.83	144.92	9551.60

Combination No. 1433

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1433

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.71	1646.03	24.25	1279.24	-155.68	-7355.59
3	4	-648.53	1590.92	25.06	1302.23	142.68	8951.10

Combination No. 1434

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1434

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.20	1662.76	23.97	1849.44	-142.72	-7442.67
3	4	-655.02	1601.81	25.34	1843.98	155.64	9051.38

Combination No. 1435


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1435

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.64	1684.79	23.30	1814.62	-135.71	-7293.22

Units: US (English)

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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-649.17	1570.66	24.83	1807.68	155.55	9036.29

Combination No. 1436

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1436

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.50	1666.78	23.73	1247.66	-155.44	-7215.29
3	4	-643.03	1561.58	24.41	1278.07	135.81	8936.93

Combination No. 1437

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1437

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.35	1719.46	17.01	1147.43	-107.62	-7178.99
3	4	-641.60	1544.71	18.17	1160.08	105.53	8979.24

Combination No. 1438

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1438

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	559.25	1640.61	16.76	1390.05	-96.32	-6904.37
3	4	-618.51	1514.59	18.42	1377.88	116.83	8587.28

Combination No. 1439

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1439

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.30	1507.74	16.99	1148.50	-106.64	-7687.07
3	4	-641.56	1756.43	18.19	1159.01	106.51	8469.96

Combination No. 1440


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1440

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	559.25	1477.61	17.23	1366.31	-117.94	-7295.81
3	4	-618.51	1677.58	17.95	1401.63	95.21	8195.69

Units: US (English)

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		Job # 59219
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		Date

Combination No. 1441									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.82	1575.26	23.61	1798.72	-150.19	-7720.04
3	4	-659.34	1680.19	24.52	1817.58	141.07	8903.10

Combination No. 1442									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.10	1563.62	23.43	1262.63	-141.81	-7618.03
3	4	-652.62	1664.74	24.70	1263.10	149.45	8811.14

Combination No. 1443									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.94	1617.70	23.44	1430.02	-142.23	-8038.14
3	4	-681.47	1721.34	24.69	1431.40	149.03	9223.73

Combination No. 1444									
Group Id: STR GP 5 Name: STRENGTH GROUP V									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	525.25	1426.53	7.68	750.60	-58.97	-6760.89
3	4	-579.76	1582.84	8.65	783.34	40.57	7680.75

Combination No. 1445									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	537.41	1440.86	7.50	621.87	-50.41	-6975.94
3	4	-591.91	1633.88	8.83	635.82	49.13	7816.57

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.60	1682.65	23.50	1427.28	-144.72	-7852.36
3	4	-681.12	1656.40	24.64	1434.13	146.54	9399.50

Combination No. 1447									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1448									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1449									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1450									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1451									
Group Id: STR GP 5 Name: STRENGTH GROUP V									


Combination No. 1452									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1453									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1454									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-681.80	1737.93	24.62	1653.77	145.56	9193.43

Combination No. 1452

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.25	1604.95	23.63	1718.44	-150.94	-7864.87
3	4	-670.77	1696.33	24.51	1738.97	140.31	9088.20

Combination No. 1453

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	537.51	1600.44	7.51	621.06	-51.15	-6629.97
3	4	-592.02	1474.31	8.82	636.63	48.39	8165.52

Combination No. 1454

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	522.96	1539.44	7.67	494.52	-58.50	-6467.47
3	4	-577.46	1457.18	8.66	526.21	41.04	7907.97

Combination No. 1455

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.69	1678.55	23.44	1648.72	-142.09	-7907.77
3	4	-683.22	1668.56	24.70	1649.81	149.16	9404.62


Combination No. 1456

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.34	1637.28	23.44	1807.68	-142.02	-7543.24
3	4	-658.86	1618.17	24.70	1808.62	149.23	9066.03

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1457

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.54	1622.03	23.60	1254.19	-149.50	-7449.91
3	4	-652.06	1606.33	24.54	1271.54	141.76	8963.09

Combination No. 1458

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.10	1718.63	16.96	1193.05	-105.50	-7176.08
3	4	-641.36	1544.39	18.22	1201.04	107.65	8975.02

Combination No. 1459

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.99	1715.49	23.53	1509.75	-146.05	-8019.64
3	4	-693.51	1678.90	24.61	1519.52	145.21	9589.86

Combination No. 1460

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.33	1557.99	19.38	1365.64	-131.43	-8030.54
3	4	-665.23	1772.02	22.69	1403.28	125.86	8832.38

Combination No. 1461

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	572.14	1542.13	19.88	1146.69	-130.53	-7360.07
3	4	-630.33	1630.43	23.37	1174.43	133.86	8491.15

Combination No. 1462

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.54	1553.67	20.09	1691.62	-140.60	-7457.78
3	4	-636.73	1646.52	23.15	1741.46	123.80	8578.40

Combination No. 1463

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.95	1686.57	19.39	1364.99	-132.02	-7914.96
3	4	-679.84	1643.44	22.68	1403.93	125.27	9369.92

Combination No. 1464

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.62	1511.46	19.61	1647.49	-142.06	-7516.23
3	4	-633.52	1679.61	22.46	1708.47	115.24	8431.37

Combination No. 1465

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.40	1502.39	19.18	1123.88	-122.32	-7415.10
3	4	-627.29	1661.59	22.89	1141.51	134.97	8352.73

Combination No. 1466

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.63	1615.11	19.38	1365.35	-131.70	-8092.91
3	4	-678.53	1714.90	22.68	1403.57	125.59	9153.95


Combination No. 1467

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.39	1757.38	19.40	1364.63	-132.35	-7537.78

Units: US (English)

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-665.28	1572.63	22.67	1404.29	124.94	9326.85

Combination No. 1468

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	574.70	1626.21	20.12	1134.43	-141.70	-7198.77
3	4	-632.89	1546.36	23.13	1186.69	122.69	8726.35

Combination No. 1469

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.19	1642.94	19.84	1704.64	-128.74	-7285.85
3	4	-639.38	1557.24	23.41	1728.44	135.65	8826.63

Combination No. 1470

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.64	1664.97	19.17	1669.82	-121.73	-7136.41
3	4	-633.53	1526.10	22.90	1686.14	135.56	8811.54

Combination No. 1471

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.49	1646.95	19.59	1102.85	-141.46	-7058.47
3	4	-627.39	1517.02	22.47	1162.53	115.83	8712.18


Combination No. 1472

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.34	1699.64	12.87	1002.63	-93.64	-7022.18
3	4	-625.96	1500.15	16.24	1044.54	85.54	8754.49

Units: US (English)

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Combination No. 1473
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1473		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	548.24	1620.79	12.63	1245.25	-82.34	-6747.55		
3	4	-602.87	1470.02	16.48	1262.34	96.84	8362.53		

Combination No. 1474
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1474		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	571.29	1487.92	12.85	1003.70	-92.66	-7530.25		
3	4	-625.92	1711.87	16.26	1043.47	86.52	8245.21		

Combination No. 1475
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1475		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	548.24	1457.79	13.10	1221.50	-103.96	-7138.99		
3	4	-602.86	1633.02	16.01	1286.08	75.22	7970.94		

Combination No. 1476
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1476		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	585.81	1555.44	19.48	1653.92	-136.20	-7563.22		
3	4	-643.70	1635.63	22.59	1702.04	121.09	8678.35		

Combination No. 1477
Group id: STR GP 5 Name: STRENGTH GROUP V


Combination No. 1477		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	579.09	1543.80	19.30	1117.83	-127.83	-7461.22		
3	4	-636.98	1620.18	22.77	1147.56	129.46	8586.39		

Combination No. 1478
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1478		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	579.09	1543.80	19.30	1117.83	-127.83	-7461.22		
3	4	-636.98	1620.18	22.77	1147.56	129.46	8586.39		

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	292
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1479		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	607.94	1597.88	19.31	1285.22	-128.25	-7881.32		
3	4	-665.83	1676.78	22.76	1315.86	129.05	8998.99		

Combination No. 1479
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1479		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	514.24	1406.70	3.55	605.80	-44.99	-6604.07		
3	4	-564.11	1538.28	6.71	667.80	20.58	7456.00		

Combination No. 1480
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1480		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	526.40	1421.04	3.36	477.07	-36.43	-6819.12		
3	4	-576.27	1589.32	6.90	520.28	29.14	7591.82		

Combination No. 1481
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1481		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	607.59	1662.83	19.36	1282.48	-130.74	-7695.54		
3	4	-665.48	1611.84	22.71	1318.59	126.56	9174.75		

Combination No. 1482
Group id: STR GP 5 Name: STRENGTH GROUP V


Combination No. 1482		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	584.15	1521.51	19.50	1573.46	-137.13	-7667.06		
3	4	-642.04	1715.39	22.57	1623.62	120.16	8526.59		

Combination No. 1483
Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1483		Memb	Node	Fx	Fy	Fz	Mx	My	Mz
				kip	kip	kip	kft	kft	kft
1	1	594.36	1619.35	19.48	1192.85	-135.94	-7550.75		

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 283	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-652.25	1599.97	22.59	1240.38	121.36	8937.68

Combination No. 1484

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.05	1756.41	19.36	11422.02	-130.35	-7533.53
3	4	-664.95	1572.14	22.71	1457.29	126.94	9321.31

Combination No. 1485

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	579.80	1690.16	19.48	11492.49	-136.26	-7173.58
3	4	-637.69	1529.16	22.59	1240.74	121.03	8894.61

Combination No. 1486

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.26	1589.36	19.38	1499.96	-131.72	-7921.03
3	4	-666.15	1693.37	22.68	1538.23	125.57	8968.68

Combination No. 1487

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.24	1585.13	19.50	1573.64	-136.96	-7708.05
3	4	-655.13	1651.76	22.57	1623.43	120.33	8863.45


Combination No. 1488

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	526.50	1580.62	3.38	476.26	-37.17	-6473.15
3	4	-576.37	1429.75	6.88	521.09	28.40	7940.77

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 284	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Date	
		Date	

Combination No. 1489

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	511.95	1519.61	3.54	349.72	-44.51	-6310.65
3	4	-561.82	1412.62	6.72	410.67	21.06	7683.22

Combination No. 1490

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.69	1658.72	19.31	1503.92	-128.11	-7750.95
3	4	-667.58	1624.00	22.76	1534.27	129.18	9179.87

Combination No. 1491

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.33	1617.46	19.31	1662.88	-128.04	-7386.43
3	4	-643.22	1573.61	22.76	1693.08	129.25	8841.29

Combination No. 1492

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.53	1602.20	19.47	1109.38	-135.52	-7293.10
3	4	-636.42	1561.77	22.60	1156.00	121.77	8738.34

Combination No. 1493

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.09	1698.81	12.83	1048.25	-91.52	-7019.26
3	4	-625.71	1499.83	16.28	1085.49	87.67	8750.27

Combination No. 1494

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 295	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.98	1695.67	19.39	1364.95	-132.07	-7862.82
3	4	-677.87	1634.34	22.68	1403.98	125.23	9365.11

Combination No. 1495

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.11	1559.07	14.50	1194.48	-113.98	-8067.97
3	4	-663.69	1770.94	20.12	1263.24	101.78	8796.77

Combination No. 1496

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.91	1543.21	15.00	975.53	-113.09	-7397.51
3	4	-628.79	1629.35	20.80	1034.38	109.78	8455.55

Combination No. 1497

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.32	1554.75	15.22	1520.46	-123.15	-7495.22
3	4	-635.19	1645.44	20.58	1601.41	99.72	8542.79

Combination No. 1498

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.72	1687.65	14.52	1193.83	-114.58	-7952.40
3	4	-678.30	1642.36	20.10	1263.89	101.19	9334.32


Combination No. 1499

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.40	1512.54	14.73	1476.33	-124.61	-7553.67

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-631.98	1678.53	19.89	1568.42	91.16	8395.76

Combination No. 1500

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.17	1503.47	14.31	952.72	-104.87	-7452.54
3	4	-625.75	1660.51	20.31	1001.46	110.89	8317.12

Combination No. 1501

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.41	1616.19	14.51	1194.19	-114.25	-8130.35
3	4	-676.99	1713.82	20.11	1263.53	101.51	9118.34

Combination No. 1502

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.17	1758.46	14.52	1193.47	-114.90	-7575.22
3	4	-663.75	1571.55	20.10	1264.25	100.86	9291.25

Combination No. 1503

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	576.47	1627.29	15.24	963.27	-124.25	-7236.21
3	4	-631.35	1545.27	20.56	1046.64	98.61	8690.74


Combination No. 1504

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.96	1644.02	14.96	1533.48	-111.29	-7323.29
3	4	-637.84	1556.16	20.84	1588.39	111.57	8791.02


Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 287			
		Job # 59219			
		Designed CAM			
		Date 9/10/14			
		Checked			
		Date			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses			
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012			
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		Phone: 1-800-778-4277			
File Name: Pier 12 Straddle.rcp					
Combination No. 1505					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1505					
Memb	Node	Fx kip	Fy kip		
1	1	571.41	1666.05		
3	4	-631.99	1525.02		
		Mx kft	My kft		
		1498.65	-104.28		
		1546.10	111.48		
		Mz kft	Mz kft		
		-7173.85	8775.93		
Combination No. 1506					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1506					
Memb	Node	Fx kip	Fy kip		
1	1	571.27	1648.04		
3	4	-625.85	1515.94		
		Mx kft	My kft		
		931.69	-124.02		
		1022.48	91.75		
		Mz kft	Mz kft		
		-7095.91	8676.57		
Combination No. 1507					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1507					
Memb	Node	Fx kip	Fy kip		
1	1	573.11	1700.72		
3	4	-624.42	1499.07		
		Mx kft	My kft		
		831.47	-76.19		
		904.50	61.46		
		Mz kft	Mz kft		
		-7059.61	8718.88		
Combination No. 1508					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1508					
Memb	Node	Fx kip	Fy kip		
1	1	550.02	1621.87		
3	4	-601.33	1468.94		
		Mx kft	My kft		
		1074.09	-64.89		
		1122.30	72.76		
		Mz kft	Mz kft		
		-6784.99	8326.92		
Combination No. 1509					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1509					
Memb	Node	Fx kip	Fy kip		
1	1	573.07	1489.00		
3	4	-624.38	1710.79		
		Mx kft	My kft		
		832.54	-75.22		
		903.42	62.44		
		Mz kft	Mz kft		
		-7567.69	8209.60		
Combination No. 1510					
Group Id: STR GP 5 Name: STRENGTH GROUP V					


Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219			
		Designed CAM			
		Date 9/10/14			
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		Date			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses			
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File Name: Pier 12 Straddle.rcp					
Combination No. 1511					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1511					
Memb	Node	Fx kip	Fy kip		
1	1	550.01	1458.87		
3	4	-601.32	1631.94		
		Mx kft	My kft		
		1050.34	-86.51		
		1146.04	51.14		
		Mz kft	Mz kft		
		-7176.43	7935.33		
Combination No. 1512					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1512					
Memb	Node	Fx kip	Fy kip		
1	1	587.58	1556.52		
3	4	-642.16	1634.55		
		Mx kft	My kft		
		1482.76	-118.76		
		1562.00	97.01		
		Mz kft	Mz kft		
		-7600.66	8642.74		
Combination No. 1513					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1513					
Memb	Node	Fx kip	Fy kip		
1	1	580.86	1544.88		
3	4	-635.44	1619.10		
		Mx kft	My kft		
		1442	946.67		
		1007.51	105.38		
		Mz kft	Mz kft		
		-7498.65	8550.78		
Combination No. 1514					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1514					
Memb	Node	Fx kip	Fy kip		
1	1	609.71	1598.96		
3	4	-664.29	1675.70		
		Mx kft	My kft		
		1443	1114.06		
		1175.81	104.97		
		Mz kft	Mz kft		
		-7918.76	8963.38		
Combination No. 1515					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1515					
Memb	Node	Fx kip	Fy kip		
1	1	516.02	1407.79		
3	4	-562.58	1537.20		
		Mx kft	My kft		
		-1.33	434.64		
		527.76	-3.50		
		Mz kft	Mz kft		
		-6641.51	7420.40		
Combination No. 1516					
Group Id: STR GP 5 Name: STRENGTH GROUP V					
Combination No. 1516					
Memb	Node	Fx kip	Fy kip		
1	1	528.17	1422.13		
		Mx kft	My kft		
		-1.51	305.91		
		-18.98	-6856.56		

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 299	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-574.73	1588.24	4.32	380.23	5.06	7556.21

Combination No. 1516

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.36	1663.91	14.49	1111.32	-113.29	-7732.98
3	4	-663.94	1610.75	20.13	1178.55	102.48	9139.15

Combination No. 1517

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.92	1522.59	14.63	1402.29	-119.68	-7704.50
3	4	-640.50	1714.31	19.99	1483.57	96.08	8490.98

Combination No. 1518

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.13	1620.43	14.60	1021.69	-118.49	-7588.19
3	4	-650.71	1598.89	20.02	1100.34	97.28	8902.07

Combination No. 1519

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.83	1757.50	14.48	1250.85	-112.91	-7570.97
3	4	-663.41	1571.06	20.14	1317.24	102.86	9285.70


Combination No. 1520

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.57	1691.24	14.61	1021.33	-118.81	-7211.02
3	4	-636.15	1528.08	20.01	1100.70	96.95	8859.00

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 300	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 1521

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.03	1590.44	14.51	1328.80	-114.27	-7958.47
3	4	-664.62	1692.29	20.11	1398.18	101.49	8933.07

Combination No. 1522

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.01	1586.22	14.62	1402.48	-119.51	-7745.49
3	4	-653.59	1650.68	20.00	1483.39	96.25	8827.85

Combination No. 1523

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	528.28	1581.70	-1.50	305.10	-19.72	-6510.59
3	4	-574.83	1428.67	4.31	381.05	4.32	7905.17

Combination No. 1524

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	513.72	1520.70	-1.34	178.56	-27.07	-6348.09
3	4	-560.28	1411.54	4.15	270.63	-3.02	7647.62

Combination No. 1525

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.46	1659.81	14.43	1332.76	-110.66	-7788.39
3	4	-666.04	1622.92	20.19	1394.22	105.10	9144.26

Combination No. 1526

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 301	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.10	1618.54	14.43	1491.72	-110.59	-7423.87
3	4	-641.68	1572.53	20.19	1553.03	105.17	8805.68

Combination No. 1527

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.30	1603.29	14.59	938.22	-118.07	-7330.54
3	4	-634.88	1560.69	20.03	1015.95	97.69	8702.73

Combination No. 1528

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	572.86	1699.89	7.95	877.09	-74.07	-7056.70
3	4	-624.17	1498.75	13.71	945.45	63.59	8714.66

Combination No. 1529

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.75	1696.75	14.52	1193.78	-114.62	-7900.26
3	4	-676.33	1633.26	20.10	1263.93	101.15	9329.50

Combination No. 1530

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.94	1561.64	11.35	1089.49	-104.48	-8168.73
3	4	-659.74	1768.37	18.74	1182.19	87.20	8703.02


Combination No. 1531

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.74	1545.78	11.84	870.54	-103.59	-7498.27

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 302	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Phone: 1-800-778-4277			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-624.84	1626.78	19.42	953.33	95.20	8361.80

Combination No. 1532

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.15	1557.32	12.06	1415.47	-113.65	-7595.98
3	4	-631.25	1642.87	19.21	1520.36	85.14	8449.04

Combination No. 1533

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.56	1690.22	11.36	1088.84	-105.08	-8053.16
3	4	-674.36	1639.79	18.73	1182.84	86.61	9240.57

Combination No. 1534

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.23	1515.11	11.58	1371.34	-115.11	-7654.43
3	4	-628.03	1675.96	18.51	1487.37	76.58	8302.01

Combination No. 1535

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	576.00	1506.04	11.15	847.72	-95.37	-7553.30
3	4	-621.80	1657.94	18.94	920.41	96.32	8223.38


Combination No. 1536

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.24	1618.76	11.35	1089.20	-104.75	-8231.11
3	4	-673.04	1771.25	18.74	1182.48	86.94	9024.60

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 303
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Designed CAM
		Date 9/10/14
		Checked
		Date

Combination No. 1537									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.00	1761.03	11.37	1088.48	-105.40	-7675.98
3	4	-659.80	1568.98	18.72	1183.19	86.29	9197.50

Combination No. 1538									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.30	1629.86	12.09	858.28	-114.75	-7336.97
3	4	-627.40	1542.71	19.18	965.59	84.04	8596.99

Combination No. 1539									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.79	1646.59	11.81	1428.49	-101.79	-7424.05
3	4	-633.89	1553.59	19.46	1507.34	97.00	8697.27

Combination No. 1540									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.24	1668.62	11.14	1393.66	-94.78	-7274.61
3	4	-628.04	1522.45	18.95	1465.05	96.91	8682.18


Combination No. 1541									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	576.10	1650.60	11.56	826.70	-114.52	-7196.67
3	4	-621.90	1513.37	18.53	941.43	77.17	8582.82

Combination No. 1542									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 304
		Job # 59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277
		Designed CAM
		Date 9/10/14
		Checked
		Date

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.94	1703.29	4.84	726.48	-66.69	-7160.37
3	4	-620.47	1496.50	12.29	823.44	46.89	8625.14

Combination No. 1543									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.85	1624.44	4.60	969.09	-55.39	-6885.75
3	4	-597.38	1466.37	12.53	1041.24	58.19	8233.18

Combination No. 1544									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.90	1491.57	4.82	727.55	-65.72	-7668.45
3	4	-620.43	1708.22	12.31	822.37	47.87	8115.86

Combination No. 1545									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.84	1461.44	5.06	945.35	-77.01	-7277.19
3	4	-597.38	1629.37	12.07	1064.99	36.57	7841.59

Combination No. 1546									
Group Id: STR GP 5 Name: STRENGTH GROUP V									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.41	1559.09	11.45	1377.76	-109.26	-7701.42
3	4	-638.21	1631.98	18.64	1480.94	82.43	8548.99

Combination No. 1547									
Group Id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.69	1547.45	11.27	841.67	-100.88	-7599.41

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	305
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
Version: 12.01.00.57 www.bentley.com		Checked	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-631.50	1616.53	18.82	926.46	90.81	8457.03

Combination No. 1548
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.54	1601.53	11.28	1009.06	-101.30	-8019.52
3	4	-660.34	1673.13	18.81	1094.76	90.39	8869.63

Combination No. 1549
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	520.85	1410.36	-4.48	329.64	-18.04	-6742.27
3	4	-558.63	1534.63	2.76	446.71	-18.07	7326.65

Combination No. 1550
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	533.00	1424.69	-4.67	200.92	-9.48	-6957.32
3	4	-570.78	1585.67	2.95	299.18	-9.51	7462.46

Combination No. 1551
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.19	1666.48	11.33	1006.33	-103.79	-7833.74
3	4	-660.00	1608.19	18.76	1097.50	87.90	9045.40

Combination No. 1552
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.75	1525.16	11.47	1297.30	-110.18	-7805.26
3	4	-636.55	1711.74	18.62	1402.52	81.50	8397.23

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	306
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
Version: 12.01.00.57 www.bentley.com		Checked	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 1553

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1553

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.96	1623.00	11.44	916.69	-108.99	-7688.95
3	4	-646.77	1596.32	18.65	1019.28	82.70	8808.32

Combination No. 1554

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1554

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.66	1760.06	11.32	1145.86	-103.41	-7671.73
3	4	-659.46	1568.49	18.77	1236.19	88.28	9191.96

Combination No. 1555

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1555

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.41	1693.81	11.45	916.34	-109.31	-7311.78
3	4	-632.21	1525.51	18.64	1019.64	82.37	8765.25

Combination No. 1556

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1556

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.87	1593.01	11.35	1223.81	-104.77	-8059.23
3	4	-660.67	1689.72	18.74	1317.13	86.92	8839.33

Combination No. 1557

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1557


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.84	1588.78	11.47	1297.49	-110.01	-7846.25
3	4	-649.64	1648.11	18.62	1402.33	81.67	8734.10

Combination No. 1558

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	307
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	533.11	1584.27	-4.65	200.11	-10.22	-6611.35
3	4	-570.89	1426.10	2.93	299.99	-10.25	7811.42

Combination No. 1559
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	518.56	1523.26	-4.49	73.56	-17.57	-6448.85
3	4	-556.34	1408.97	2.77	189.57	-17.59	7553.87

Combination No. 1560
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.29	1662.37	11.28	1227.77	-101.16	-7889.15
3	4	-662.09	1620.35	18.81	1313.17	90.53	9050.52

Combination No. 1561
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.93	1621.11	11.27	1386.73	-101.09	-7524.63
3	4	-637.73	1569.96	18.82	1471.98	90.60	8711.93

Combination No. 1562
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.13	1605.85	11.44	833.23	-108.57	-7431.30
3	4	-630.93	1558.12	18.65	934.90	83.12	8608.98

Combination No. 1563
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.69	1702.46	4.80	772.10	-64.57	-7157.46

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-620.23	1496.18	12.33	864.40	49.01	8620.92

Combination No. 1564
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.58	1699.32	11.36	1088.79	-105.12	-8001.02
3	4	-672.39	1630.69	18.73	1182.88	86.57	9235.76

Combination No. 1565
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.03	1566.52	10.41	1064.09	-103.43	-8361.04
3	4	-651.94	1763.49	18.60	1167.23	83.97	8520.91

Combination No. 1566
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.83	1550.66	10.91	845.14	-102.53	-7690.58
3	4	-617.04	1621.90	19.28	938.38	91.97	8179.69

Combination No. 1567
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.24	1562.20	11.13	1390.07	-112.59	-7788.29
3	4	-623.45	1637.98	19.06	1505.40	81.91	8266.93

Combination No. 1568
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.65	1695.10	10.43	1063.44	-104.02	-8245.46
3	4	-666.56	1634.91	18.58	1167.88	83.38	9058.46

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	309
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1569

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.32	1519.99	10.64	1345.94	-114.05	-7846.74
3	4	-620.23	1671.08	18.37	1472.41	73.35	8119.90

Combination No. 1570

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.09	1510.92	10.22	822.32	94.32	7745.61
3	4	-614.00	1653.06	18.79	905.45	93.08	8041.26

Combination No. 1571

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.33	1623.64	10.42	1063.80	-103.69	-8423.41
3	4	-665.24	1706.36	18.59	1167.52	83.71	8842.48

Combination No. 1572

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.09	1765.92	10.43	1063.08	-104.35	-7868.29
3	4	-652.00	1564.09	18.58	1168.24	83.05	9015.39

Combination No. 1573

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.39	1634.74	11.15	832.88	-113.69	-7529.27
3	4	-619.60	1537.82	19.04	950.64	80.81	8414.88


Combination No. 1574

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.99	1496.45	3.89	702.15	-64.66	-7860.76
3	4	-589.58	1461.49	12.39	1026.29	54.95	8051.06

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.88	1651.47	10.87	1403.09	-100.74	-7616.36
3	4	-626.09	1548.71	19.32	1492.39	93.76	8515.16

Combination No. 1575

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.33	1673.50	10.20	1368.26	-93.73	-7466.91
3	4	-620.24	1517.57	18.81	1450.09	93.68	8500.07

Combination No. 1576

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.19	1655.49	10.63	801.30	-113.46	-7388.98
3	4	-614.10	1508.49	18.38	926.47	73.94	8400.71

Combination No. 1577

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.03	1708.17	3.91	701.08	-65.64	-7352.68
3	4	-612.67	1491.61	12.14	808.49	43.66	8443.02

Combination No. 1578

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	563.94	1629.32	3.66	943.69	-54.34	-7078.06
3	4	-589.58	1461.49	12.39	1026.29	54.95	8051.06


Combination No. 1579

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.99	1496.45	3.89	702.15	-64.66	-7860.76
3	4	-589.58	1461.49	12.39	1026.29	54.95	8051.06

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-612.63	1703.33	12.16	807.41	44.63	7933.74

Combination No. 1580
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	563.93	1466.32	4.13	919.95	-75.96	-7469.49
3	4	-589.58	1624.49	11.92	1050.03	33.34	7659.47

Combination No. 1581
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.50	1563.97	10.52	1352.36	-108.20	-7893.72
3	4	-630.41	1627.10	18.49	1465.99	79.20	8366.88

Combination No. 1582
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.78	1552.33	10.34	816.27	-99.83	-7791.72
3	4	-623.69	1611.65	18.67	911.50	87.57	8274.92

Combination No. 1583
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.63	1606.41	10.34	983.66	-100.24	-8211.83
3	4	-652.54	1668.25	18.67	1079.81	87.16	8687.52

Combination No. 1584
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	529.94	1415.24	-5.42	304.24	-16.99	-6934.57
3	4	-550.83	1529.74	2.62	431.75	-21.30	7144.54

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
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		Checked	
		Phone: 1-800-778-4277	

Combination No. 1585
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	542.10	1429.58	-5.60	175.52	-8.43	-7149.63
3	4	-562.98	1580.79	2.80	284.22	-12.75	7280.35

Combination No. 1586
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.28	1671.36	10.40	980.93	-102.73	8026.05
3	4	-652.20	1603.30	18.61	1082.54	84.67	8863.29

Combination No. 1587
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.84	1530.04	10.54	1271.90	-109.13	-7997.57
3	4	-628.75	1706.86	18.47	1387.56	78.27	8215.12

Combination No. 1588
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.06	1627.88	10.51	891.29	-107.93	-7881.26
3	4	-638.97	1591.44	18.50	1004.33	79.47	8626.21


Combination No. 1589
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.75	1764.95	10.39	1120.46	-102.35	-7864.04
3	4	-651.66	1563.61	18.62	1221.23	85.05	9009.84

Combination No. 1590
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.50	1698.70	10.52	890.94	-108.26	-7504.08
3	4	-624.41	1520.62	18.49	1004.69	79.14	8583.14

Combination No. 1591

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1591

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.93	1597.89	10.42	1198.41	-103.71	-8251.54
3	4	-652.87	1684.83	18.59	1302.17	83.69	8657.21

Combination No. 1592

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1592

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.93	1593.67	10.53	1272.09	-108.96	-8038.56
3	4	-641.84	1643.23	18.48	1387.38	78.44	8551.99

Combination No. 1593

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1593

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	542.20	1589.15	-5.59	174.71	-9.17	-6803.66
3	4	-563.09	1421.22	2.79	285.04	-13.49	7629.31

Combination No. 1594

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1594

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	527.65	1528.15	-5.43	48.16	-16.51	-6641.16
3	4	-548.54	1404.09	2.63	174.62	-20.83	7371.76

Combination No. 1595


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1595

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.38	1667.26	10.34	1202.37	-100.11	-8081.46

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-654.29	1615.47	18.67	1298.21	87.29	8868.40

Combination No. 1596

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1596

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.02	1625.99	10.34	1361.33	-100.04	-7716.93
3	4	-629.93	1565.08	18.67	1457.02	87.36	8529.82

Combination No. 1597

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1597

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.22	1610.74	10.50	807.83	-107.52	-7623.60
3	4	-623.13	1553.24	18.51	919.95	79.89	8426.87

Combination No. 1598

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1598

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.78	1707.35	3.86	746.70	-63.51	-7349.77
3	4	-612.43	1491.30	12.19	849.44	45.78	8438.80

Combination No. 1599

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1599

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.67	1704.20	10.43	1063.39	-104.06	-8193.33
3	4	-664.58	1625.81	18.58	1167.93	83.34	9053.64

Combination No. 1600


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1600

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.58	1569.22	9.87	1036.18	-98.76	-8474.63
3	4	-647.75	1760.79	17.67	1134.14	80.40	8418.22

Units: US (English)

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Combination No. 1601

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1601	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	593.39	1553.35	10.37	817.23	-97.87	-7804.16
3	4	4	-612.85	1619.21	18.35	905.29	88.40	8077.00

Combination No. 1602

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1602	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	599.79	1564.89	10.59	1362.16	-107.93	-7901.87
3	4	4	-619.26	1635.29	18.13	1472.31	78.34	8164.24

Combination No. 1603

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1603	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	643.20	1697.80	9.89	1035.53	-99.36	-8359.05
3	4	4	-662.37	1632.21	17.65	1134.79	79.81	8955.77

Combination No. 1604

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1604	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	596.87	1522.69	10.10	1318.03	-109.39	-7960.32
3	4	4	-616.04	1668.38	17.44	1439.32	69.78	8017.22

Combination No. 1605

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1605	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	590.65	1513.62	9.68	794.41	-89.65	-7859.19
3	4	4	-609.82	1650.36	17.86	872.36	89.51	7938.58


Combination No. 1606

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1606	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	590.65	1513.62	9.68	794.41	-89.65	-7859.19
3	4	4	-609.82	1650.36	17.86	872.36	89.51	7938.58

Units: US (English)

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Combination No. 1607

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1607	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	641.89	1626.34	9.88	1035.89	-99.03	-8537.00
3	4	4	-661.05	1703.67	17.66	1134.43	80.14	8739.80

Combination No. 1607

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1607	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	628.64	1768.61	9.89	1035.17	-99.68	-7981.87
3	4	4	-647.81	1561.40	17.65	1135.15	79.48	8912.70

Combination No. 1608

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1608	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	595.95	1637.43	10.61	804.97	-109.03	-7642.86
3	4	4	-615.41	1535.13	18.11	917.55	77.24	8312.20

Combination No. 1609

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1609	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	602.44	1654.17	10.33	1375.18	-96.07	-7729.94
3	4	4	-621.90	1546.02	18.39	1459.30	90.19	8412.48

Combination No. 1610

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1610	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	596.89	1676.19	9.66	1340.35	-89.06	-7580.50
3	4	4	-616.06	1514.88	17.88	1417.00	90.11	8397.39


Combination No. 1611

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1611	Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	1	590.74	1658.18	10.09	773.39	-108.79	-7502.56
3	4	4	-609.82	1650.36	17.86	872.36	89.51	7938.58

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-609.91	1505.80	17.45	893.39	70.37	8298.03

Combination No. 1612
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.59	1770.87	3.37	673.17	-60.97	-7466.27
3	4	-608.49	1488.92	11.21	775.40	40.09	8340.34

Combination No. 1613
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.49	1632.02	3.13	915.78	-49.67	-7191.64
3	4	-585.40	1458.80	11.46	993.20	51.39	7948.38

Combination No. 1614
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.55	1499.14	3.35	674.24	-59.99	-7974.34
3	4	-608.45	1700.64	11.23	774.33	41.06	7831.06

Combination No. 1615
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.49	1469.02	3.59	892.04	-71.29	-7583.08
3	4	-585.39	1621.79	10.99	1016.94	29.77	7556.79

Combination No. 1616
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.06	1566.67	9.98	1324.45	-103.54	-8007.31
3	4	-626.23	1624.40	17.56	1432.90	75.63	8264.19

Units: US (English)

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Combination No. 1617
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.34	1555.03	9.80	788.36	-95.16	-7905.31
3	4	-619.51	1608.95	17.75	878.41	84.00	8172.24

Combination No. 1618
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.19	1609.11	9.81	955.75	-95.58	-8325.41
3	4	-648.36	1665.56	17.74	1046.72	83.59	8584.83

Combination No. 1619
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	535.50	1417.93	-5.96	276.33	-12.32	-7048.16
3	4	-546.64	1527.05	1.69	398.66	-24.87	7041.85

Combination No. 1620
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	547.65	1432.27	-6.14	147.61	-3.76	-7263.21
3	4	-558.80	1578.09	1.87	251.13	-16.32	7177.66


Combination No. 1621
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.84	1674.06	9.86	953.02	-98.07	-8139.63
3	4	-648.01	1600.61	17.68	1049.45	81.10	8760.60

Combination No. 1622
Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.40	1532.74	10.00	1243.99	-104.46	-8111.15
3	4	-624.57	1704.16	17.54	1354.48	74.70	8112.44

Combination No. 1623
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.61	1630.58	9.97	863.39	-103.27	-7994.84
3	4	-634.78	1588.74	17.57	971.24	75.90	8523.53

Combination No. 1624
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.30	1767.64	9.85	1092.55	-97.68	-7977.62
3	4	-647.47	1560.91	17.69	1188.15	81.48	8907.16

Combination No. 1625
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.05	1701.39	9.98	863.03	-103.59	-7617.67
3	4	-620.22	1517.93	17.56	971.60	75.57	8480.46

Combination No. 1626
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.51	1600.59	9.88	1170.50	-99.05	-8365.12
3	4	-648.68	1682.14	17.66	1269.09	80.12	8554.53

Combination No. 1627
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.49	1596.36	9.99	1244.18	-104.29	-8152.14

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-637.66	1640.54	17.55	1354.29	74.87	8449.30

Combination No. 1628
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	547.75	1591.84	-6.13	146.80	-4.50	-6917.24
3	4	-558.90	1418.52	1.86	251.95	-17.06	7526.62

Combination No. 1629
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	533.20	1530.84	-5.97	20.25	-11.85	-6754.74
3	4	-544.35	1401.39	1.70	141.53	-24.40	7269.07

Combination No. 1630
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.94	1669.95	9.80	1174.46	-95.44	-8195.04
3	4	-650.11	1612.77	17.74	1265.13	83.72	8765.72

Combination No. 1631
Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.58	1628.69	9.80	1333.42	-95.37	-7830.52
3	4	-625.75	1562.38	17.74	1423.93	83.79	8427.13

Combination No. 1632
Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.78	1613.43	9.96	779.92	-102.85	-7737.19
3	4	-618.95	1550.54	17.58	886.86	76.32	8324.19

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	321
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1633
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.34	1710.04	3.32	718.79	-58.85	-7463.35
3	4	-608.24	1488.60	11.26	816.35	42.21	8336.12

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.23	1706.90	9.89	1035.48	-99.40	-8306.91
3	4	-660.40	1623.11	17.65	1134.84	79.77	8950.96

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.23	1706.90	9.89	1035.48	-99.40	-8306.91
3	4	-660.40	1623.11	17.65	1134.84	79.77	8950.96

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.45	1588.99	-37.00	-1871.38	213.81	-8518.80
3	4	-665.67	1805.40	-35.03	-1842.73	-219.19	8724.38


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.55	1573.35	-37.69	-2156.64	221.75	-7854.83
3	4	-630.47	1663.59	-35.52	-2137.49	-218.35	8376.64

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.96	1584.89	-37.47	-1611.71	211.69	-7952.54
3	4	-636.88	1679.67	-35.74	-1570.46	-228.41	8463.88

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.96	1584.89	-37.47	-1611.71	211.69	-7952.54
3	4	-636.88	1679.67	-35.74	-1570.46	-228.41	8463.88

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	322
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.07	1717.58	-36.98	-1872.03	213.22	-8403.22
3	4	-680.29	1676.81	-35.05	-1842.08	-219.79	9261.93

Combination No. 1639
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.74	1542.46	-36.77	-1589.53	203.19	-8004.49
3	4	-633.96	1712.99	-35.26	-1537.54	-229.82	8323.38

Combination No. 1640
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.51	1533.40	-37.19	-2113.14	222.92	-7903.37
3	4	-627.73	1694.96	-34.84	-2104.50	-210.08	8244.74

Combination No. 1641
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.75	1646.12	-36.99	-1871.67	213.55	-8581.17
3	4	-678.97	1748.27	-35.04	-1842.43	-219.46	9045.96

Combination No. 1642
 Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.51	1788.39	-36.98	-1872.39	212.89	-8026.05
3	4	-665.73	1606.00	-35.05	-1841.72	-220.11	9218.86

Combination No. 1643
 Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.11	1657.43	-37.44	-2168.90	210.59	-7693.53

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 323	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-633.03	1579.51	-35.76	-2125.23	-229.52	8611.83

Combination No. 1644

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.60	1674.17	-37.72	-1598.69	223.55	-7780.61
3	4	-639.52	1590.40	-35.48	-1583.48	-216.56	8712.11

Combination No. 1645

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.75	1695.97	-37.21	-1567.21	223.52	-7624.67
3	4	-633.97	1559.48	-34.82	-1559.87	-209.49	8703.54

Combination No. 1646

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.61	1677.96	-36.78	-2134.17	203.78	-7546.74
3	4	-627.83	1550.40	-35.25	-2083.48	-229.23	8604.18

Combination No. 1647

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.19	1728.23	-30.45	-1504.98	174.12	-7438.95
3	4	-629.68	1535.93	-28.62	-1476.43	-180.78	8718.27


Combination No. 1648

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.10	1649.38	-30.70	-1262.36	185.42	-7164.33
3	4	-606.59	1505.81	-28.38	-1258.63	-169.48	8326.31

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 324	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 1649

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.15	1516.51	-30.47	-1503.91	175.10	-7947.03
3	4	-629.64	1747.66	-28.60	-1477.50	-179.80	8208.99

Combination No. 1650

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.10	1486.38	-30.23	-1286.10	163.80	-7555.76
3	4	-606.59	1668.81	-28.84	-1234.88	-191.10	7934.72

Combination No. 1651

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.92	1586.45	-36.89	-1583.10	209.04	-8051.48
3	4	-644.15	1669.01	-35.14	-1543.97	-223.97	8570.35

Combination No. 1652

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.20	1574.81	-37.08	-2119.20	217.41	-7949.48
3	4	-637.43	1653.55	-34.96	-2098.45	-215.59	8478.40

Combination No. 1653

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.05	1628.89	-37.07	-1951.80	217.00	-8369.58
3	4	-666.27	1710.16	-34.96	-1930.15	-216.01	8890.99

Combination No. 1654

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	325
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rpt		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	532.36	1431.79	-20.79	-840.85	110.08	-4916.86
3	4	-572.61	1577.57	-19.43	-798.56	-131.22	7524.17

Combination No. 1655

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	544.52	1446.13	-20.98	-969.57	118.63	-7131.92
3	4	-584.76	1628.62	-19.24	-946.09	-122.66	7659.98

Combination No. 1656

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.70	1693.84	-37.01	-1954.54	214.51	-8183.80
3	4	-665.93	1645.21	-35.02	-1927.41	-218.50	9066.76

Combination No. 1657

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.26	1552.51	-36.87	-1663.57	208.11	-8155.32
3	4	-642.49	1748.77	-35.16	-1622.39	-224.89	8418.60

Combination No. 1658

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.48	1650.36	-36.90	-2044.17	209.31	-8039.01
3	4	-652.70	1633.35	-35.13	-2005.63	-223.70	8829.69


Combination No. 1659

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.17	1787.42	-37.02	-1815.01	214.89	-8021.79

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	326
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-665.39	1605.52	-35.01	-1788.72	-218.12	9213.32

Combination No. 1660

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.92	1721.17	-36.89	-2044.53	208.98	-7661.84
3	4	-638.14	1562.53	-35.14	-2005.27	-224.02	8786.61

Combination No. 1661

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.38	1620.37	-36.99	-1737.06	213.53	-8409.29
3	4	-666.60	1726.74	-35.04	-1707.78	-219.48	8860.69

Combination No. 1662

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.35	1616.14	-36.88	-1663.38	208.28	-8196.32
3	4	-655.58	1685.14	-35.15	-1622.58	-224.72	8755.46

Combination No. 1663

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	544.62	1605.70	-20.96	-970.39	117.89	-6785.94
3	4	-584.86	1469.05	-19.26	-945.27	-123.40	8008.94


Combination No. 1664

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	530.07	1544.70	-20.80	-1096.93	110.55	-6623.44
3	4	-570.31	1451.92	-19.42	-1055.69	-130.74	7751.39

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1665									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1665							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.80	1689.73	-37.07	-1733.10	217.13	-8239.21
3	4	-668.02	1657.38	-34.96	-1771.74	-215.87	9071.88

Combination No. 1666									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1666							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.44	1648.47	37.07	-1574.14	217.20	-7874.69
3	4	-643.67	1606.99	-34.96	-1552.93	-215.80	8733.29

Combination No. 1667									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1667							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.64	1633.21	-36.91	-2127.64	209.73	-7781.36
3	4	-636.87	1595.15	-35.12	-2090.01	-223.28	8630.35


Combination No. 1668									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1668							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.95	1727.41	-30.50	-1459.36	176.25	-7436.04
3	4	-629.44	1535.62	-28.57	-1435.47	-178.65	8714.05

Combination No. 1669									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1669							
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.09	1726.67	-36.98	-1872.08	213.18	-8351.08
3	4	-678.32	1667.72	-35.05	-1842.03	-219.83	9257.12

Combination No. 1670									
Group id: STR GP 5 Name: STRENGTH GROUP V									

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1671									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1671

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	622.44	1569.17	-41.13	-2016.18	227.79	-8361.98
3	4	-650.03	1760.84	-36.97	-1958.27	239.18	8499.63

Combination No. 1672									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1672

Group Id: STR GP 5 Name: STRENGTH GROUP VI

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	587.54	1553.63	-41.82	-2301.44	235.74	-7698.02
3	4	-614.83	1619.03	-37.46	-2253.03	238.34	8151.89

Combination No. 1672

Combination No. 1673									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1673

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.95	1565.07	-41.60	-1756.51	225.68	-7795.73
3	4	-621.24	1635.11	-37.68	-1686.01	248.40	8239.13

Combination No. 1674									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Combination No. 1674

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.06	1697.75	-41.12	-2016.83	227.20	-8246.40
3	4	-664.65	1632.25	-36.98	-1957.62	239.77	9037.18

Combination No. 1675									
Group id: STR GP 5 Name: STRENGTH GROUP V									


Combination No. 1675

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.73	1522.64	-40.90	-1734.33	217.17	-7847.67
3	4	-618.32	1668.43	-37.20	-1653.08	249.80	8098.63

Combination No. 1675									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Units: US (English)	Design Code: AASHTO LRFD
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		Sheet # 329	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-612.09	1650.40	-36.77	-2220.04	-230.07	8019.99

Combination No. 1676

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.74	1626.30	-41.12	-2016.47	227.53	-8424.35
3	4	-663.33	1703.71	-36.97	-1957.98	-239.44	8821.21

Combination No. 1677

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.50	1768.57	-41.11	-2017.19	226.88	-7869.23
3	4	-650.09	1561.44	-36.99	-1957.26	-240.10	8994.11

Combination No. 1678

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.10	1637.61	-41.58	-2313.70	224.57	-7536.71
3	4	-617.39	1534.95	-37.70	-2240.77	-249.50	8387.08

Combination No. 1679

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.59	1654.35	-41.86	-1743.49	237.53	-7623.79
3	4	-623.88	1545.84	-37.42	-1699.02	-236.54	8487.36


Combination No. 1680

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.74	1676.15	-41.34	-1712.01	237.50	-7467.85
3	4	-618.33	1514.92	-36.76	-1675.41	-229.48	8478.79

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 330	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
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Combination No. 1681

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	584.60	1658.14	-40.91	-2278.97	217.76	-7389.92
3	4	-612.19	1505.84	-37.19	-2199.02	-249.21	8379.43

Combination No. 1682

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.18	1708.41	-34.58	-1649.78	188.11	-7282.13
3	4	-614.04	1491.37	-30.56	-1591.97	-200.76	8493.52

Combination No. 1683

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	560.09	1629.56	-34.83	-1407.16	199.40	-7007.51
3	4	-590.95	1461.25	-30.31	-1374.17	-189.46	8101.56

Combination No. 1684

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.14	1496.69	-34.61	-1648.71	189.08	-7790.21
3	4	-614.00	1703.10	-30.53	-1593.04	-199.78	7984.24

Combination No. 1685

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	560.09	1466.56	-34.36	-1430.91	177.78	-7398.95
3	4	-590.94	1624.25	-30.78	-1350.42	-211.08	7709.97

Combination No. 1686

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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		Designed CAM	
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File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	600.91	1556.63	-41.03	-1727.91	223.02	-7792.66
3	4	-628.50	1624.44	-37.07	-1659.51	-243.95	8345.60

Combination No. 1687

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	594.20	1554.98	-41.21	-2264.00	231.40	-7792.66
3	4	-621.78	1608.99	-36.89	-2213.99	-235.58	8253.65

Combination No. 1688

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	623.04	1609.07	-41.20	-2096.60	230.98	-8212.77
3	4	-650.63	1665.60	-36.90	-2045.69	-235.99	8666.24

Combination No. 1689

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	521.35	1411.97	-24.93	-985.65	124.06	-6760.04
3	4	-556.96	1533.01	-21.36	-914.10	-151.20	7299.42

Combination No. 1690

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	533.51	1426.37	-25.11	-1114.37	132.62	-6975.10
3	4	-569.12	1584.06	-21.18	-1061.63	-142.64	7435.23


Combination No. 1691

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	622.70	1674.02	-41.15	-2099.34	228.49	-8026.98

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
		Designed CAM	
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		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-650.28	1600.65	-36.95	-2042.96	-238.48	8842.01

Combination No. 1692

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	599.25	1532.69	-41.01	-1808.37	222.09	-7998.51
3	4	-626.84	1704.21	-37.09	-1737.93	-244.88	8193.85

Combination No. 1693

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	609.47	1630.54	-41.03	-2188.97	223.29	-7882.20
3	4	-637.05	1588.78	-37.07	-2121.17	-243.68	8604.94

Combination No. 1694

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	622.16	1767.60	-41.15	-1959.81	228.87	-7864.98
3	4	-649.75	1560.96	-36.95	-1904.26	-238.10	8988.57

Combination No. 1695

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	594.91	1701.35	-41.03	-2189.33	222.96	-7505.02
3	4	-622.50	1517.97	-37.07	-2120.81	-244.01	8561.87


Combination No. 1696

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	623.37	1600.55	-41.12	-1881.86	227.51	-8252.48
3	4	-650.96	1682.18	-36.98	-1823.32	-239.46	8635.94

Units: US (English)

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		Job # 59219	
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Combination No. 1697	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.34	1596.32	-41.01	-1808.18	222.26	-8039.50
3	4	-639.93	1640.58	-37.09	-1738.12	-244.71	8530.71

Combination No. 1698	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	533.61	1585.88	-25.10	-1115.19	131.88	-6469.13
3	4	-569.22	1424.49	-21.19	-1060.82	-143.38	7784.19

Combination No. 1699	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	519.06	1524.88	-24.94	-1241.73	124.53	-6466.63
3	4	-554.67	1407.36	-21.35	-1171.23	-150.72	7526.64

Combination No. 1700	
Group id: STR GP 5 Name: STRENGTH GROUP V	


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.79	1669.91	-41.20	-1877.90	231.11	-8082.40
3	4	-652.38	1612.82	-36.90	-1827.28	-235.86	8847.13

Combination No. 1701	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.43	1628.65	-41.20	-1718.94	231.18	-7717.87
3	4	-628.02	1562.43	-36.90	-1668.47	-235.79	8508.54

Combination No. 1702	
Group id: STR GP 5 Name: STRENGTH GROUP V	

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.64	1613.39	-41.04	-2272.44	223.71	-7624.54
3	4	-621.22	1550.59	-37.06	-2205.55	-243.26	8405.60

Combination No. 1703	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.94	1707.58	-34.63	-1604.16	190.23	-7279.22
3	4	-613.79	1491.06	-30.51	-1551.02	-198.64	8489.30

Combination No. 1704	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.09	1706.85	-41.12	-2016.88	227.16	-8194.27
3	4	-662.67	1623.16	-36.98	-1957.57	-239.81	9032.37

Combination No. 1705	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.21	1570.26	-46.01	-2187.34	245.24	-8399.42
3	4	-648.49	1759.75	-39.54	-2098.31	-263.26	8464.02


Combination No. 1706	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.31	1554.61	-46.69	-2472.60	253.18	-7735.46
3	4	-613.29	1617.95	-40.03	-2393.08	-262.42	8116.28

Combination No. 1707	
Group id: STR GP 5 Name: STRENGTH GROUP V	

Combination No. 1707	
Group id: STR GP 5 Name: STRENGTH GROUP V	

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-619.70	1634.03	-40.25	-1826.05	-272.48	8203.52

Combination No. 1708

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.83	1698.84	-45.99	-2181.99	244.65	-8283.84
3	4	-663.11	1631.17	-39.56	-2097.66	-263.85	9001.57

Combination No. 1709

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.50	1523.73	-45.78	-1905.49	234.62	-7885.11
3	4	-616.78	1667.35	-39.77	-1793.13	-273.88	8063.02

Combination No. 1710

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.28	1514.66	-46.20	-2429.11	254.35	-7783.99
3	4	-610.55	1649.32	-39.35	-2360.09	-254.15	7984.38

Combination No. 1711

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.51	1627.38	-46.00	-2187.63	244.98	-8461.79
3	4	-661.79	1702.63	-39.55	-2098.02	-263.52	8785.60


Combination No. 1712

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.27	1769.65	-45.99	-2188.35	244.32	-7906.67
3	4	-648.55	1560.36	-39.56	-2097.30	-264.18	8958.50

Units: US (English)

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Combination No. 1713

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.87	1638.69	-46.45	-2484.86	242.02	-7574.15
3	4	-615.85	1533.87	-40.27	-2380.82	-273.58	8351.47

Combination No. 1714

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.36	1655.43	-46.73	-1914.65	254.98	-7661.23
3	4	-622.34	1544.76	-39.99	-1839.07	-260.63	8451.75

Combination No. 1715

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.51	1677.23	-46.22	-1883.17	254.95	-7505.29
3	4	-616.79	1513.84	-39.33	-1815.45	-253.56	8443.19

Combination No. 1716

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.37	1659.22	-45.79	-2450.13	235.21	-7427.36
3	4	-610.65	1504.76	-39.76	-2339.07	-273.29	8343.83

Combination No. 1717

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	584.96	1709.49	-39.46	-1820.94	205.55	-7319.57
3	4	-612.50	1490.29	-33.13	-1732.01	-224.84	8457.91

Combination No. 1718

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	561.86	1630.64	-39.70	-1578.32	216.85	-7044.95
3	4	-589.41	1460.17	-32.89	-1514.21	-213.54	8065.95

Combination No. 1719

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	584.92	1497.77	-39.48	-1819.87	206.53	-7827.65
3	4	-612.46	1702.01	-33.11	-1733.09	-223.86	7948.63

Combination No. 1720

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	561.86	1467.64	-39.24	-1602.07	195.23	-7436.38
3	4	-589.40	1623.17	-33.35	-1490.47	-235.16	7674.36

Combination No. 1721

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.69	1567.71	-45.90	-1899.07	240.47	-7932.10
3	4	-626.96	1623.36	-39.65	-1799.55	-268.03	8310.00

Combination No. 1722

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.97	1556.07	-46.08	-2435.16	248.84	-7830.10
3	4	-620.24	1607.91	-39.46	-2354.04	-259.66	8218.04


Combination No. 1723

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.81	1610.15	-46.07	-2267.77	248.43	-8250.21

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-649.09	1664.52	-39.47	-2185.73	-260.07	8630.63

Combination No. 1724

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	523.13	1473.05	-29.80	-1156.81	141.50	-6797.48
3	4	-555.42	1531.93	-23.94	-1054.15	-175.28	7263.81

Combination No. 1725

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	535.28	1427.39	-29.99	-1285.54	150.06	-7012.54
3	4	-567.58	1582.98	-23.75	-1201.67	-166.72	7399.62

Combination No. 1726

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.47	1675.10	-46.02	-2270.50	245.94	-8064.42
3	4	-648.74	1599.57	-39.53	-2183.00	-262.56	8806.40

Combination No. 1727

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.03	1533.77	-45.88	-1979.53	239.54	-8035.94
3	4	-625.30	1703.12	-39.67	-1877.98	-268.96	8158.24


Combination No. 1728

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.24	1631.62	-45.91	-2360.14	240.74	-7919.63
3	4	-635.52	1587.70	-39.64	-2261.21	-267.76	8569.33

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-661.13	1622.07	-39.56	-2097.62	-263.89	8996.76

Combination No. 1740

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.04	1572.82	-49.16	-2292.34	254.74	-8500.18
3	4	-644.54	1757.18	-40.92	-2179.36	-277.83	8370.28

Combination No. 1741

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.14	1557.18	-49.85	-2577.59	262.68	-7836.22
3	4	-609.34	1615.38	-41.41	-2474.13	-276.99	8022.53

Combination No. 1742

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.55	1568.72	-49.63	-2032.66	252.62	-7933.93
3	4	-615.75	1631.46	-41.62	-1907.10	-287.05	8109.77

Combination No. 1743

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.66	1701.40	-49.15	-2292.99	254.15	-8384.60
3	4	-659.16	1628.60	-40.93	-2178.71	-278.43	8907.83


Combination No. 1744

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.33	1526.29	-48.93	-2010.49	244.12	-7985.87
3	4	-612.83	1664.78	-41.15	-1874.18	-288.46	7969.27

Units: US (English)

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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Date	
		Date	

Combination No. 1745

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.11	1517.22	-49.36	-2534.10	263.85	-7884.75
3	4	-606.60	1646.75	-40.72	-2441.14	-268.72	7890.63

Combination No. 1746

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.35	1629.95	-49.16	-2292.63	254.48	-8562.55
3	4	-657.84	1700.06	-40.92	-2179.07	-278.10	8691.85

Combination No. 1747

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.10	1772.22	-49.14	-2293.34	253.82	-8007.43
3	4	-644.60	1557.79	-40.94	-2178.35	-278.75	8864.75

Combination No. 1748

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.70	1641.26	-49.61	-2589.85	251.52	-7674.91
3	4	-611.90	1531.30	-41.65	-2461.87	-288.16	8257.73

Combination No. 1749

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.19	1658.00	-49.89	-2019.64	264.48	-7761.99
3	4	-618.40	1542.19	-41.37	-1920.12	-275.20	8358.01

Combination No. 1750

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	343
		Job #	59219
		Designed	CAM
		Date	9/10/14
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	
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		Phone: 1-800-778-4277	
File Name:	Pier 12 Straddle.rcp		

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	597.35	1679.80	-49.37	-1988.16	264.45	-7606.05
3	4	-612.84	1511.27	-40.71	-1896.50	-268.13	8349.44

Combination No. 1751

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1751

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	597.79	1661.79	-48.95	-2555.12	244.71	-7528.12
3	4	-606.70	1502.19	-41.13	-2420.12	-287.86	8250.08

Combination No. 1752

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1752

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	589.79	1712.06	-42.62	-1925.93	215.05	-7145.71
3	4	-608.55	1487.72	-34.50	-1813.07	-239.41	8364.16

Combination No. 1753

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1753

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	566.70	1633.21	-42.86	-1683.32	226.35	-7928.41
3	4	-585.46	1457.60	-34.26	-1595.27	-228.12	7972.20

Combination No. 1754

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1754

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	589.75	1500.34	-42.64	-1924.86	216.03	-7928.41
3	4	-608.51	1699.45	-34.48	-1814.14	-238.44	7854.88

Combination No. 1755


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1755

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	566.69	1470.21	-42.39	-1707.06	204.73	-7537.14

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
		Designed	CAM
		Date	9/10/14
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	
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		Phone: 1-800-778-4277	
File Name:	Pier 12 Straddle.rcp		

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
3	4	-585.46	1620.60	-34.73	-1571.52	-249.74	7580.61

Combination No. 1756

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1756

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	607.52	1570.28	-49.06	-2004.06	249.97	-8032.86
3	4	-623.02	1620.79	-41.02	-1880.61	-282.61	8216.25

Combination No. 1757

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1757

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	600.80	1558.63	-49.24	-2540.15	258.34	-7930.86
3	4	-616.30	1605.34	-40.84	-2435.09	-274.23	8124.29

Combination No. 1758

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1758

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	629.65	1612.72	-49.23	-2372.76	257.93	-8350.97
3	4	-645.14	1661.95	-40.85	-2266.79	-274.65	8536.89

Combination No. 1759

Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1759

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	527.96	1415.62	-32.96	-1261.80	151.00	-6898.24
3	4	-551.48	1529.36	-25.31	-1135.20	-189.85	7170.06

Combination No. 1760


Group Id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1760

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
		kip	kip	kip	kft	kft	kft
1	1	540.11	1429.96	-33.14	-1390.53	159.56	-7113.30
3	4	-563.63	1580.41	-25.13	-1282.73	-181.30	7305.88

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	345
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Combination No. 1761
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.30	1677.67	-49.18	-2375.49	255.44	-8165.18
3	4	-644.80	1597.00	-40.90	-2264.05	-277.14	8712.66

Combination No. 1762
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.86	1536.34	-49.04	-2084.52	249.04	-8136.71
3	4	-621.36	1700.56	-41.04	-1959.03	-283.53	8064.49

Combination No. 1763
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.07	1634.19	-49.06	-2465.13	250.24	-8020.39
3	4	-631.57	1585.13	-41.01	-2342.27	-282.34	8475.58

Combination No. 1764
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.76	1771.25	-49.18	-2235.96	255.82	-8003.18
3	4	-644.26	1557.31	-40.89	-2125.36	-276.76	8859.21


Combination No. 1765
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	601.51	1705.00	-49.06	-2465.49	249.91	-7643.22
3	4	-617.01	1514.32	-41.02	-2341.91	-282.66	8432.51

Combination No. 1766
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.97	1604.20	-49.16	-2158.02	254.46	-8390.68
3	4	-645.47	1678.53	-40.92	-2044.42	-278.12	8506.58

Combination No. 1767
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.95	1599.97	-49.04	-2084.33	249.21	-8177.70
3	4	-634.45	1636.93	-41.04	-1959.22	-283.36	8401.36

Combination No. 1768
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	540.22	1589.53	-33.13	-1391.34	158.82	-6767.32
3	4	-563.74	1420.84	-25.14	-1281.91	-182.04	7654.83

Combination No. 1769
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	525.66	1528.53	-32.97	-1151.88	151.48	-6604.83
3	4	-549.18	1403.71	-25.30	-1392.33	-189.38	7397.28

Combination No. 1770
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.40	1673.56	-49.23	-2154.06	258.06	-8220.60
3	4	-646.89	1609.17	-40.84	-2048.38	-274.51	8717.77

Combination No. 1771
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.04	1632.30	-49.23	-1995.09	258.13	-7856.07

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-622.54	1558.78	-40.84	-1889.57	-274.44	8379.19

Combination No. 1772

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.24	1611.04	-49.07	-2548.59	250.66	-7762.74
3	4	-615.74	1546.94	-41.00	-2426.65	-281.92	8276.24

Combination No. 1773

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.54	1711.23	-42.66	-1880.31	217.18	-7417.42
3	4	-608.31	1487.41	-34.46	-1772.11	-237.29	8359.94

Combination No. 1774

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.69	1710.50	-49.15	-2293.03	254.11	-8332.47
3	4	-657.19	1619.51	-40.93	-2178.67	-278.47	8903.01

Combination No. 1775

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.14	1577.71	-50.10	-2317.74	255.80	-8692.48
3	4	-636.74	1752.30	-41.06	-2194.32	-281.07	8188.17


Combination No. 1776

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.23	1562.07	-50.78	-2602.99	263.74	-8028.52
3	4	-601.54	1610.50	-41.55	-2489.09	-280.23	7840.42

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Checked	
		Date	

Combination No. 1777

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.64	1573.61	-50.57	-2058.06	253.68	-8126.23
3	4	-607.95	1626.58	-41.77	-1922.06	-290.29	7927.66

Combination No. 1778

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.75	1706.29	-50.08	-2318.39	255.21	-8576.91
3	4	-651.36	1623.72	-41.07	-2193.67	-281.66	8725.71

Combination No. 1779

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.43	1531.18	-49.87	-2035.89	245.17	-8178.18
3	4	-605.03	1659.89	-41.29	-1889.14	-291.69	7787.16

Combination No. 1780

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.20	1522.11	-50.29	-2559.50	264.91	-8077.05
3	4	-598.80	1641.87	-40.87	-2456.10	-271.96	7708.52

Combination No. 1781

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.44	1634.83	-50.09	-2318.03	255.53	-8754.86
3	4	-650.04	1695.18	-41.07	-2194.03	-281.33	8509.74

Combination No. 1782

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.19	1777.10	-50.08	-2318.74	254.88	-8199.73
3	4	-636.80	1552.91	-41.08	-2193.31	-281.99	8682.64

Combination No. 1783

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.79	1646.14	-50.54	-2615.25	252.58	-7867.22
3	4	-604.10	1526.42	-41.79	-2476.83	-291.39	8075.61

Combination No. 1784

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.29	1662.88	-50.82	-2045.04	265.53	-7954.30
3	4	-610.59	1537.31	-41.51	-1935.08	-278.43	8175.89

Combination No. 1785

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.44	1664.69	-50.30	-2013.56	265.50	-7798.36
3	4	-605.04	1506.38	-40.85	-1911.46	-271.36	8167.33

Combination No. 1786

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.30	1666.67	-49.88	-2580.52	245.77	-7720.42
3	4	-598.90	1497.30	-41.28	-2435.07	-291.10	8067.97


Combination No. 1787

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.88	1716.94	-43.55	-1951.33	216.11	-7612.64

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-600.75	1482.84	-34.65	-1828.02	-242.65	8182.05

Combination No. 1788

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.79	1638.09	-43.79	-1708.72	227.41	-7338.01
3	4	-577.66	1452.72	-34.40	-1610.22	-231.35	7790.09

Combination No. 1789

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.84	1505.22	-43.57	-1950.26	217.09	-8120.72
3	4	-600.71	1694.56	-34.63	-1829.09	-241.67	7672.77

Combination No. 1790

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.78	1475.10	-43.33	-1732.46	205.79	-7729.45
3	4	-577.66	1615.72	-34.87	-1586.48	-252.97	7398.50

Combination No. 1791

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.61	1575.16	-49.99	-2029.46	251.02	-8225.17
3	4	-615.22	1615.91	-41.17	-1895.56	-285.84	8034.14


Combination No. 1792

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.89	1563.52	-50.17	-2565.55	259.40	-8123.16
3	4	-608.50	1600.46	-40.98	-2450.05	-277.47	7942.18

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 351
		Job # 59219
		Designed CAM
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012
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		Checked
		Date

Combination No. 1793									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.74	1617.60	-50.16	-2398.16	258.98	-8543.27
3	4	-637.34	1657.06	-40.99	-2281.74	-277.88	8354.77

Combination No. 1794									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	537.05	1420.50	-33.89	-1287.20	152.06	-7090.55
3	4	-543.68	1524.48	-25.46	-1150.16	-193.09	6987.95

Combination No. 1795									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	549.20	1434.84	-34.08	-1415.93	160.62	-7305.60
3	4	-555.83	1575.52	-25.27	-1297.68	-184.53	7123.76


Combination No. 1796									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.39	1682.55	-50.11	-2400.89	256.49	-8357.49
3	4	-637.00	1592.12	-41.05	-2279.01	-280.37	8530.54

Combination No. 1797									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.95	1541.23	-49.97	-2109.92	250.10	-8329.01
3	4	-613.56	1695.67	-41.19	-1973.99	-286.77	7882.38

Combination No. 1798									
Group id: STR GP 5 Name: STRENGTH GROUP V									

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		Checked
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.16	1639.07	-50.00	-2490.53	251.29	-8212.70
3	4	-623.77	1580.25	-41.16	-2357.22	-285.57	8293.47

Combination No. 1799									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.86	1776.13	-50.12	-2261.36	256.88	-8195.48
3	4	-636.46	1552.42	-41.04	-2140.31	-279.99	8677.10

Combination No. 1800									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.60	1709.88	-49.99	-2490.89	250.97	-7835.53
3	4	-609.21	1509.44	-41.17	-2356.86	-285.90	8250.40

Combination No. 1801									
Group id: STR GP 5 Name: STRENGTH GROUP V									


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.06	1609.08	-50.09	-2183.42	255.51	-8582.98
3	4	-637.67	1673.65	-41.07	-2059.38	-281.35	8324.47

Combination No. 1802									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.04	1604.85	-49.98	-2109.73	250.27	-8370.00
3	4	-626.65	1632.04	-41.18	-1974.17	-286.60	8219.24

Combination No. 1803									
Group id: STR GP 5 Name: STRENGTH GROUP V									

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	549.31	1594.41	-34.06	-1416.74	159.88	-6959.63

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-555.94	1415.95	-25.29	-1296.87	-185.27	7472.72

Combination No. 1804

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	534.76	1533.41	-33.90	-1543.28	152.54	-6797.13
3	4	-541.38	1398.82	-25.45	-1407.29	-192.61	7215.17

Combination No. 1805

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.49	1678.44	-50.17	-2179.46	259.12	-8412.90
3	4	-639.09	1604.28	-40.99	-2063.33	-277.75	8535.66

Combination No. 1806

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.13	1637.18	-50.17	-2020.49	259.19	-8048.38
3	4	-614.74	1553.89	-40.99	-1904.53	-277.68	8197.07

Combination No. 1807

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.33	1621.92	-50.01	-2573.99	251.71	-7955.05
3	4	-607.94	1542.05	-41.15	-2441.60	-285.15	8094.13


Combination No. 1808

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.63	1716.12	-43.60	-1905.71	218.23	-7609.72
3	4	-600.51	1482.53	-34.60	-1787.07	-240.52	8177.83

Units: US (English)

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Combination No. 1809

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.78	1715.39	-50.08	-2318.43	255.16	-8524.77
3	4	-649.39	1614.62	-41.08	-2193.62	-281.70	8720.90

Combination No. 1810

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.69	1580.40	-50.63	-2345.65	260.46	-8806.07
3	4	-632.56	1749.61	-41.99	-2227.41	-284.64	8085.48

Combination No. 1811

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.79	1564.76	-51.32	-2630.90	268.41	-8142.11
3	4	-597.36	1607.80	-42.48	-2522.18	-283.80	7737.73

Combination No. 1812

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.20	1576.30	-51.11	-2085.97	258.34	-8239.82
3	4	-603.77	1623.88	-42.70	-1955.15	-293.86	7824.98

Combination No. 1813

Group Id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.31	1708.98	-50.62	-2346.29	259.87	-8690.49
3	4	-647.17	1621.03	-42.00	-2226.76	-285.23	8623.03

Combination No. 1814

Group Id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.98	1533.87	-50.41	-2063.79	249.84	-8291.76
3	4	-600.85	1657.20	-42.22	-1922.23	-295.26	7684.47

Combination No. 1815

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.75	1524.80	-50.83	-2587.41	269.57	-8190.64
3	4	-594.62	1639.17	-41.79	-2489.19	-275.52	7605.84

Combination No. 1816

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.99	1637.52	-50.63	-2345.94	260.20	-8868.44
3	4	-645.86	1692.48	-42.00	-2227.12	-284.90	8407.06

Combination No. 1817

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.75	1779.80	-50.61	-2346.65	259.54	-8313.32
3	4	-632.62	1550.21	-42.01	-2226.40	-285.56	8579.96

Combination No. 1818

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.35	1648.84	-51.08	-2643.16	257.24	-7980.80
3	4	-599.92	1523.72	-42.72	-2509.92	-294.96	7972.93


Combination No. 1819

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.84	1665.57	-51.36	-2072.95	270.20	-8067.88

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-606.41	1534.61	-42.44	-1968.17	-282.00	8073.21

Combination No. 1820

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.99	1687.38	-50.84	-2041.47	270.17	-7911.94
3	4	-600.86	1503.69	-41.78	-1944.55	-274.93	8064.64

Combination No. 1821

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.85	1669.37	-50.42	-2608.43	250.43	-7834.01
3	4	-594.72	1494.61	-42.21	-2468.16	-294.67	7965.28

Combination No. 1822

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.44	1719.64	-44.09	-1979.24	220.78	-7726.22
3	4	-596.57	1480.15	-35.58	-1861.11	-246.22	8079.37

Combination No. 1823

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.34	1640.79	-44.33	-1736.63	232.07	-7451.60
3	4	-573.48	1450.02	-35.33	-1643.31	-234.92	7687.41


Combination No. 1824

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.39	1507.92	-44.11	-1978.17	221.75	-8234.30
3	4	-596.53	1691.87	-35.56	-1862.18	-245.24	7570.08

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1825
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.34	1477.79	-43.87	-1760.37	210.45	-7843.04
3	4	-573.47	1613.02	-35.80	-1619.57	-256.54	7295.82

Combination No. 1826
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.17	1577.85	-50.53	-2057.37	255.69	-8338.75
3	4	-611.03	1613.22	-42.09	-1928.65	-289.41	7931.45

Combination No. 1827
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.45	1566.21	-50.71	-2593.46	264.07	-8236.75
3	4	-604.31	1597.76	-41.91	-2483.14	-281.03	7839.50

Combination No. 1828
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.29	1620.29	-50.70	-2426.07	263.65	-8656.86
3	4	-633.16	1654.37	-41.92	-2314.83	-281.45	8252.09


Combination No. 1829
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	542.60	1423.20	-34.43	-1315.11	156.73	-7204.13
3	4	-539.49	1521.79	-26.39	-1183.25	-196.66	6885.27

Combination No. 1830
 Group id: STR GP 5 Name: STRENGTH GROUP V

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.76	1437.54	-34.62	-1443.84	165.28	-7419.19
3	4	-551.65	1572.83	-26.20	-1330.77	-188.10	7021.08

Combination No. 1831
 Group id: STR GP 5 Name: STRENGTH GROUP V

Combination No. 1832
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.95	1685.24	-50.65	-2428.80	261.16	-8471.07
3	4	-632.81	1589.42	-41.98	-2312.10	-283.94	8427.86

Combination No. 1833
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.51	1543.92	-50.51	-2137.83	254.76	-8442.60
3	4	-609.37	1692.98	-42.11	-2007.07	-290.34	7779.70

Combination No. 1833
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.72	1641.76	-50.54	-2518.44	255.96	-8326.29
3	4	-619.58	1577.56	-42.09	-2390.31	-289.14	8190.78

Combination No. 1834
 Group id: STR GP 5 Name: STRENGTH GROUP V


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.41	1778.83	-50.66	-2289.27	261.54	-8309.07
3	4	-632.28	1549.73	-41.97	-2173.40	-283.56	8574.42

Combination No. 1835
 Group id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.16	1712.58	-50.53	-2518.80	255.63	-7949.11

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-605.02	1506.74	-42.10	-2389.95	-289.47	8147.71

Combination No. 1836

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.62	1611.77	-50.63	-2211.33	260.18	-8696.57
3	4	-633.48	1670.95	-42.00	-2092.46	-284.92	8221.79

Combination No. 1837

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.60	1607.55	-50.52	-2137.64	254.93	-8483.59
3	4	-622.46	1629.35	-42.11	-2007.26	-290.17	8116.56

Combination No. 1838

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	554.86	1597.11	-34.60	-1444.65	164.54	-7073.22
3	4	-551.75	1413.26	-26.22	-1329.96	-188.84	7370.04

Combination No. 1839

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	540.31	1536.11	-34.44	-1571.19	157.20	-6910.72
3	4	-537.20	1396.13	-26.38	-1440.38	-196.18	7112.49


Combination No. 1840

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.04	1681.14	-50.71	-2207.37	263.78	-8526.49
3	4	-634.91	1601.59	-41.92	-2096.42	-281.32	8432.98

Units: US (English)

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Combination No. 1841

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.69	1639.87	-50.71	-2048.40	263.85	-8161.96
3	4	-610.55	1551.20	-41.92	-1937.62	-281.25	8091.39

Combination No. 1842

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.89	1624.62	-50.55	-2601.90	256.38	-8068.63
3	4	-603.75	1539.36	-42.08	-2474.69	-288.72	7991.44

Combination No. 1843

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	604.19	1718.81	-44.13	-1933.62	222.90	-7723.31
3	4	-596.32	1479.83	-35.53	-1820.16	-244.09	8075.15

Combination No. 1844

Group Id: STR GP 5 Name: STRENGTH GROUP V

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.34	1718.08	-50.62	-2346.34	259.83	-8638.36
3	4	-645.20	1611.93	-42.01	-2226.71	-285.27	8618.22

Combination No. 1845

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.23	1667.61	-27.83	1562.51	-159.02	-8982.97
3	4	-635.73	1760.50	26.44	1536.40	167.24	8049.49

Combination No. 1846

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.15	1655.86	28.20	1400.33	-158.35	-8486.33
3	4	-609.87	1655.62	26.95	1366.88	173.16	7796.73

Combination No. 1847

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.90	1664.41	28.36	1803.98	-165.81	-8558.71
3	4	-614.62	1667.53	26.79	1786.90	165.71	7861.35

Combination No. 1848

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.05	1762.86	27.84	1562.03	-159.46	-8897.35
3	4	-646.55	1665.25	26.43	1536.88	166.80	8447.67

Combination No. 1849

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.74	1633.14	28.00	1771.29	-166.89	-8602.00
3	4	-612.24	1692.05	26.27	1762.46	159.37	7752.45

Combination No. 1850

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.12	1626.43	27.68	1383.43	-152.27	-8527.09
3	4	-607.62	1678.69	26.59	1342.49	173.99	7694.19


Combination No. 1851

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	673.08	1709.92	27.83	1562.30	-159.21	-9029.17

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-645.58	1718.18	26.44	1536.62	167.04	8287.69

Combination No. 1852

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.27	1815.31	27.84	1561.76	-159.70	-8617.96
3	4	-635.77	1612.80	26.43	1537.15	166.56	8415.77

Combination No. 1853

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.05	1718.14	28.38	1391.25	-166.62	-8366.84
3	4	-611.77	1593.34	26.77	1375.96	164.89	7970.95

Combination No. 1854

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.86	1730.54	28.17	1813.62	-157.02	-8431.35
3	4	-616.58	1601.40	26.98	1777.26	174.49	8045.23

Combination No. 1855

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.75	1746.85	27.67	1787.83	-151.83	-8320.65
3	4	-612.25	1578.34	26.60	1745.93	174.43	8034.05


Combination No. 1856

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.20	1733.51	27.99	1367.85	-166.45	-8262.92
3	4	-607.70	1571.61	26.28	1358.07	159.81	7960.45

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Combination No. 1857

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1857

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.56	1772.54	23.01	1293.62	-131.02	-8236.03
3	4	-606.64	1559.11	21.66	1270.67	137.38	7991.46

Combination No. 1858

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1858

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.46	1714.13	22.83	1473.33	-122.66	-8032.61
3	4	-589.53	1536.79	21.84	1432.00	145.74	7701.46

Combination No. 1859

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1859

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.53	1615.70	22.99	1294.41	-130.30	-8612.39
3	4	-606.61	1715.94	21.68	1269.87	138.10	7614.55

Combination No. 1860

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1860

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.45	1593.39	23.17	1455.74	-138.67	-8322.56
3	4	-589.53	1657.53	21.50	1449.59	129.73	7411.39

Combination No. 1861


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1861

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.28	1665.72	27.90	1776.05	-162.55	-8636.81
3	4	-619.78	1659.47	26.37	1757.70	163.70	7935.39

Combination No. 1862

Group Id: SER GP 1 Name: SERVICE GROUP I

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		Date	

Combination No. 1863

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1863

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.30	1657.10	27.77	1378.95	-156.35	-8561.25
3	4	-614.80	1648.02	26.50	1346.98	169.91	7867.28

Combination No. 1864

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1864

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.67	1697.16	27.78	1502.94	-156.66	-8872.44
3	4	-636.17	1689.95	26.50	1471.64	169.60	8172.90

Combination No. 1865

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1865

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.27	1555.55	16.10	999.67	-94.99	-7926.32
3	4	-560.83	1587.35	14.61	991.60	89.26	7029.95

Combination No. 1866

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1866

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.28	1566.17	15.97	904.31	-88.65	-8085.62
3	4	-569.83	1625.16	14.74	882.32	95.60	7130.56

Combination No. 1867

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1867


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.42	1745.27	27.82	1500.91	-158.50	-8734.82
3	4	-635.91	1641.84	26.46	1473.67	167.76	8303.10

Combination No. 1867

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1867

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.05	1640.59	27.92	1776.45	-163.24	-8713.73

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-618.55	1718.55	26.35	1699.61	163.02	7822.98

Combination No. 1868

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.62	1713.06	27.90	1434.52	-162.35	-8627.57
3	4	-626.12	1633.05	26.37	1415.73	163.90	8127.49

Combination No. 1869

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.02	1814.59	27.81	1604.27	-158.22	-8614.82
3	4	-635.52	1612.44	26.46	1576.41	168.04	8411.66

Combination No. 1870

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.83	1765.52	27.91	1434.25	-162.60	-8348.18
3	4	-615.33	1580.60	26.37	1416.00	163.66	8095.59

Combination No. 1871

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.91	1690.85	27.83	1662.01	-159.23	-8901.85
3	4	-636.41	1702.23	26.44	1636.36	167.03	8150.46


Combination No. 1872

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.75	1687.72	27.92	1716.59	-163.11	-8744.09
3	4	-628.25	1671.42	26.36	1699.47	163.14	8072.51

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1873

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.35	1684.37	15.98	903.71	89.20	-7829.35
3	4	-569.91	1506.96	14.73	882.93	95.05	7389.04

Combination No. 1874

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	592.57	1639.19	16.09	809.97	94.63	-7708.98
3	4	-559.13	1494.27	14.62	801.14	89.61	7198.27

Combination No. 1875

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.97	1742.23	27.78	1664.94	-156.56	-8775.87
3	4	-637.47	1650.85	26.50	1633.43	169.70	8306.89

Combination No. 1876

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.93	1711.66	27.77	1782.69	-156.51	-8505.85
3	4	-619.42	1613.53	26.50	1751.06	169.75	8056.09

Combination No. 1877

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.89	1700.36	27.89	1372.69	-162.04	-8436.71
3	4	-614.39	1604.76	26.38	1353.23	164.21	7979.83

Combination No. 1878

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.38	1771.92	22.98	1327.41	-129.45	-8233.87
3	4	-606.46	1558.87	21.70	1301.00	138.95	7988.67

Combination No. 1879
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	672.59	1769.59	27.84	1562.00	-159.49	-8858.73
3	4	-645.09	1658.51	26.43	1536.92	166.77	8444.11

Combination No. 1880
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.24	1682.30	31.07	1677.28	-170.36	-9095.33
3	4	-647.70	1794.09	28.04	1629.19	183.10	8223.32

Combination No. 1881
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.17	1670.55	31.44	1515.10	-169.70	-8598.69
3	4	-621.85	1689.21	28.54	1459.66	189.02	7970.56

Combination No. 1882
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.92	1679.10	31.60	1918.75	-177.15	-8671.07
3	4	-626.59	1701.13	28.38	1879.69	181.57	8035.18

Combination No. 1883
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.07	1777.54	31.08	1676.80	-170.80	-9009.72

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-658.53	1698.85	28.03	1629.67	182.66	8621.50

Combination No. 1884
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.75	1647.83	31.24	1886.06	-178.23	-8714.36
3	4	-624.21	1725.64	27.87	1855.25	175.23	7926.28

Combination No. 1885
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.14	1641.11	30.93	1498.20	-163.61	-8639.45
3	4	-619.60	1712.29	28.18	1435.28	189.85	7868.02

Combination No. 1886
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	681.10	1724.61	31.08	1677.07	-170.56	-9141.53
3	4	-657.55	1751.78	28.03	1629.40	182.90	8461.52

Combination No. 1887
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.29	1830.00	31.09	1676.54	-171.04	-8730.33
3	4	-647.74	1646.39	28.02	1629.93	182.42	8589.60

Combination No. 1888
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.07	1732.83	31.62	1506.02	-177.97	-8479.21
3	4	-623.74	1626.93	28.36	1468.75	180.75	8144.78

Units: US (English)

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Combination No. 1889

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.88	1745.23	31.41	1928.40	-168.37	-8543.71
3	4	-628.55	1635.00	28.57	1870.04	190.35	8219.06

Combination No. 1890

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.76	1761.54	30.92	1902.60	-163.17	-8433.01
3	4	-624.22	1611.93	28.19	1838.71	190.28	8207.88

Combination No. 1891

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.21	1748.20	31.23	1482.63	-177.79	-8375.28
3	4	-619.67	1605.21	27.88	1450.85	175.67	8134.28

Combination No. 1892

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.58	1787.22	26.25	1408.39	-142.37	-8348.40
3	4	-618.61	1592.70	23.26	1363.45	153.23	8165.63

Combination No. 1893

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.47	1728.82	26.07	1588.10	-134.00	-8144.97
3	4	-601.51	1570.39	23.44	1524.78	161.60	7875.29

Combination No. 1894

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

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Combination No. 1895

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.55	1630.39	26.24	1409.18	-141.64	-8724.75
3	4	-618.58	1749.54	23.27	1362.66	153.96	7788.38

Combination No. 1895

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.47	1608.08	26.42	1570.52	-150.01	-8434.93
3	4	-601.50	1691.13	23.09	1542.37	145.59	7585.22

Combination No. 1896

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.30	1680.41	31.15	1890.82	-173.90	-8749.17
3	4	-631.75	1693.06	27.96	1850.49	179.56	8109.22

Combination No. 1897

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.32	1671.79	31.01	1493.72	-167.69	-8673.61
3	4	-626.78	1681.62	28.10	1439.76	185.76	8041.11

Combination No. 1898

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.69	1711.85	31.02	1617.71	-168.00	-8984.80
3	4	-648.14	1723.55	28.09	1564.43	185.46	8346.73


Combination No. 1899

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.29	1570.24	19.35	1114.44	-106.33	-8038.69

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-572.80	1620.95	16.20	1084.39	105.11	7203.78

Combination No. 1900

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.29	1580.86	19.21	1019.08	-99.99	-8197.99
3	4	-581.81	1658.76	16.34	975.11	111.45	7304.39

Combination No. 1901

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.43	1759.96	31.06	1615.68	-169.85	-8847.19
3	4	-647.89	1675.44	28.05	1566.45	183.61	8476.93

Combination No. 1902

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.07	1655.28	31.16	1831.22	-174.58	-8826.09
3	4	-630.52	1752.15	27.95	1792.40	178.87	7996.81

Combination No. 1903

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.63	1727.75	31.14	1549.29	-173.70	-8739.93
3	4	-638.09	1666.65	27.97	1508.52	179.76	8301.32


Combination No. 1904

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.04	1829.28	31.05	1719.04	-169.56	-8727.18
3	4	-647.49	1646.03	28.06	1669.19	183.90	8585.49

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Combination No. 1905

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.85	1780.21	31.15	1549.02	-173.94	-8460.55
3	4	-627.30	1614.19	27.96	1508.78	179.52	8269.42

Combination No. 1906

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.93	1705.54	31.08	1776.78	-170.57	-9014.22
3	4	-648.39	1735.83	28.03	1729.15	182.89	8324.29

Combination No. 1907

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.77	1702.41	31.16	1831.36	-174.46	-8856.46
3	4	-640.22	1705.01	27.95	1792.26	179.00	8246.34

Combination No. 1908

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.37	1699.06	19.22	1018.48	-100.54	-7941.71
3	4	-581.88	1540.56	16.33	975.71	110.91	7562.87

Combination No. 1909

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.59	1653.87	19.34	924.75	-105.98	-7821.34
3	4	-571.10	1527.87	16.21	893.92	105.47	7372.10

Combination No. 1910

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	672.99	1756.92	31.02	1779.71	-167.90	-8888.23
3	4	-649.44	1684.45	28.09	1726.21	185.56	8480.72

Combination No. 1911
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	654.94	1726.35	31.14	1897.46	-167.85	-8618.21
3	4	-631.40	1647.12	28.09	1843.85	185.61	8229.92

Combination No. 1912
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	644.40	1715.05	31.14	1487.46	-173.39	-8549.08
3	4	-626.36	1638.35	27.97	1446.01	180.07	8153.66

Combination No. 1913
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	644.40	1786.61	26.22	1442.18	-140.79	-8346.24
3	4	-618.43	1592.47	23.29	1393.79	154.81	8162.50

Combination No. 1914
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	680.61	1784.28	31.08	1676.77	-170.83	-8971.10
3	4	-657.07	1692.11	28.03	1629.70	182.63	8617.94

Combination No. 1915
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	669.77	1681.38	34.90	1812.87	-184.45	-9064.10

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-649.00	1795.01	30.13	1741.38	202.17	8253.19

Combination No. 1916
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	643.70	1669.63	35.27	1650.68	-183.79	-8567.46
3	4	-623.15	1690.13	30.64	1571.86	208.10	8000.43

Combination No. 1917
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	648.44	1678.18	35.43	2054.33	-191.24	-8639.84
3	4	-627.89	1702.05	30.48	1991.88	200.65	8065.06

Combination No. 1918
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	680.60	1776.63	34.91	1812.38	-184.89	-8978.48
3	4	-659.83	1699.77	30.12	1741.86	201.73	8651.37

Combination No. 1919
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	646.28	1646.91	35.07	2021.64	-192.32	-8683.13
3	4	-625.51	1726.56	29.96	1967.44	194.30	7956.15

Combination No. 1920
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	641.67	1640.20	34.75	1633.78	-177.70	-8608.22
3	4	-620.90	1713.21	30.28	1547.47	208.92	7897.90

Units: US (English)

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Combination No. 1921

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	679.62	1723.69	34.90	1812.65	-184.65	-9110.30
3	4	-658.85	1752.70	30.13	1741.59	201.98	8491.40

Combination No. 1922

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.81	1829.08	34.91	1812.12	-185.13	-8699.10
3	4	-649.04	1647.31	30.12	1742.13	201.49	8619.47

Combination No. 1923

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.59	1731.91	35.44	1641.60	-192.05	-8447.97
3	4	-625.04	1627.85	30.46	1580.94	199.83	8174.65

Combination No. 1924

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.40	1744.31	35.24	2063.98	-182.46	-8512.48
3	4	-629.85	1635.92	30.67	1982.23	209.43	8248.93

Combination No. 1925

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.29	1760.62	34.74	2038.18	-177.26	-8401.78
3	4	-625.52	1612.85	30.29	1950.90	209.36	8237.75


Combination No. 1926

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.29	1760.62	34.74	2038.18	-177.26	-8401.78
3	4	-625.52	1612.85	30.29	1950.90	209.36	8237.75

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 1927

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.74	1747.28	35.06	1618.21	-191.88	-8344.05
3	4	-620.97	1606.12	29.97	1563.04	194.74	8164.15

Combination No. 1927

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.11	1786.31	30.08	1543.97	-156.46	-8317.16
3	4	-619.91	1593.62	25.35	1475.64	172.31	8195.50

Combination No. 1928

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.00	1727.90	29.90	1723.69	-148.09	-8113.74
3	4	-602.81	1571.31	25.53	1636.98	180.68	7905.16

Combination No. 1929

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.07	1629.48	30.06	1544.76	-155.73	-8693.52
3	4	-619.88	1750.45	25.37	1474.85	173.03	7818.25

Combination No. 1930

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.00	1607.16	30.24	1706.10	-164.10	-8403.69
3	4	-602.80	1692.05	25.19	1654.57	164.67	7615.09


Combination No. 1931

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.83	1679.49	34.97	2026.40	-187.99	-8717.94

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-633.05	1693.98	30.06	1962.68	198.64	8139.09

Combination No. 1932

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.85	1670.87	34.84	1629.30	-181.78	-8642.38
3	4	-628.08	1682.54	30.19	1551.95	204.84	8070.98

Combination No. 1933

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.22	1710.93	34.85	1753.29	-182.09	-8953.57
3	4	-649.44	1724.47	30.19	1676.62	204.53	8376.60

Combination No. 1934

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.82	1569.32	23.17	1250.02	-120.42	-8007.45
3	4	-574.10	1621.87	18.30	1196.58	124.19	7233.66

Combination No. 1935

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.82	1579.94	23.03	1154.67	-114.08	-8166.76
3	4	-583.10	1659.68	18.44	1087.30	130.53	7334.26


Combination No. 1936

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.96	1759.04	34.89	1751.27	-183.93	-8815.95
3	4	-649.19	1676.36	30.15	1678.65	202.69	8506.80

Units: US (English)

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Combination No. 1937

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.60	1654.36	34.99	1966.80	-188.67	-8794.86
3	4	-631.82	1753.06	30.04	1904.59	197.95	8026.68

Combination No. 1938

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.16	1726.83	34.97	1684.87	-187.79	-8708.70
3	4	-639.39	1667.57	30.06	1620.71	198.84	8331.19

Combination No. 1939

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.56	1828.36	34.88	1854.62	-183.65	-8695.95
3	4	-648.79	1646.95	30.15	1781.38	202.97	8615.36

Combination No. 1940

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.38	1779.29	34.97	1684.61	-188.03	-8429.31
3	4	-628.60	1615.11	30.06	1620.98	198.60	8299.29

Combination No. 1941

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.46	1704.62	34.90	1912.36	-184.66	-8982.98
3	4	-649.68	1736.75	30.13	1841.34	201.96	8354.16

Combination No. 1942

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.29	1701.49	34.99	1966.94	-188.55	-8825.22
3	4	-641.52	1705.93	30.05	1904.45	198.08	8276.21

Combination No. 1943

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1943

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.12	1698.14	23.05	1154.06	-114.63	-7910.48
3	4	-583.18	1541.48	18.42	1087.90	129.98	7592.74

Combination No. 1944

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1944

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.12	1652.96	23.16	1060.33	-120.07	-7790.11
3	4	-572.40	1528.79	18.31	1006.11	124.54	7401.97

Combination No. 1945

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1945

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.51	1756.00	34.84	1915.29	-181.99	-8857.00
3	4	-650.74	1685.37	30.19	1838.40	204.63	8510.59

Combination No. 1946

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1946

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.47	1725.43	34.84	2033.04	-181.94	-8586.98
3	4	-632.70	1648.04	30.19	1956.04	204.68	8259.79

Combination No. 1947


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1947

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.43	1714.13	34.96	1623.05	-187.48	-8517.85

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-627.66	1639.27	30.07	1558.20	199.15	8183.53

Combination No. 1948

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1948

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.92	1785.69	30.05	1577.76	-154.88	-8315.00
3	4	-619.73	1593.39	25.39	1505.98	173.88	8192.37

Combination No. 1949

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1949

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	679.14	1783.37	34.91	1812.35	-184.92	-8939.87
3	4	-658.36	1693.03	30.12	1741.89	201.70	8647.81

Combination No. 1950

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1950

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.86	1679.24	37.33	1894.34	-191.96	-8982.23
3	4	-652.25	1797.15	31.23	1804.88	213.49	8329.82

Combination No. 1951

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1951

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.79	1667.49	37.70	1732.15	-191.29	-8485.60
3	4	-626.39	1692.27	31.73	1635.35	219.41	8077.06

Combination No. 1952


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1952

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.53	1676.04	37.86	2135.80	-198.74	-8557.97
3	4	-631.14	1704.18	31.57	2055.38	211.96	8141.68


Units: US (English)

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Combination No. 1953			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1953			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1774.49	1774.49
		37.34	37.34
		31.22	31.22
		1893.85	1893.85
		1905.36	1905.36
		-192.39	-192.39
		213.05	213.05
		-8896.62	-8896.62
		8728.00	8728.00
Combination No. 1954			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1954			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1644.78	1644.78
		37.50	37.50
		31.06	31.06
		2103.11	2103.11
		2030.94	2030.94
		-199.82	-199.82
		205.62	205.62
		-8601.27	-8601.27
		8032.77	8032.77
Combination No. 1955			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1955			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1638.06	1638.06
		37.18	37.18
		31.37	31.37
		1715.35	1715.35
		1610.97	1610.97
		-185.21	-185.21
		220.24	220.24
		-8526.36	-8526.36
		7974.52	7974.52
Combination No. 1956			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1956			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1721.56	1721.56
		37.33	37.33
		31.22	31.22
		1894.12	1894.12
		1805.09	1805.09
		-192.15	-192.15
		213.29	213.29
		-9028.43	-9028.43
		8568.02	8568.02
Combination No. 1957			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1957			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1826.94	1826.94
		37.34	37.34
		31.21	31.21
		1893.59	1893.59
		1805.62	1805.62
		-192.64	-192.64
		212.81	212.81
		-8617.23	-8617.23
		8696.10	8696.10
Combination No. 1958			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1958			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1649.45	1649.45
		32.33	32.33
		1805.16	1805.16
		-155.59	-155.59
		8031.87	8031.87


Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	382
		Job #	59219
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	Date
Combination No. 1959			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1959			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1723.07	1723.07
		37.88	37.88
		31.55	31.55
		1723.07	1723.07
		1629.99	1629.99
		-199.56	-199.56
		211.14	211.14
		-8366.11	-8366.11
		8251.28	8251.28
Combination No. 1960			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1960			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1758.49	1758.49
		37.17	37.17
		31.38	31.38
		2119.65	2119.65
		2014.40	2014.40
		-184.77	-184.77
		220.68	220.68
		-8319.92	-8319.92
		8314.38	8314.38
Combination No. 1961			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1961			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1745.14	1745.14
		37.49	37.49
		31.07	31.07
		1699.68	1699.68
		1626.54	1626.54
		-199.39	-199.39
		206.06	206.06
		-8262.19	-8262.19
		8240.78	8240.78
Combination No. 1962			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1962			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1784.17	1784.17
		32.51	32.51
		26.45	26.45
		1625.44	1625.44
		1539.14	1539.14
		-163.96	-163.96
		183.62	183.62
		-8235.30	-8235.30
		8272.13	8272.13
Combination No. 1963			
Group Id: SER GP 1 Name: SERVICE GROUP I			
Combination No. 1963			
Memb	Node	Fx	Fy
1	1	kip	kip
3	4	kip	kip
		Mx	My
		kft	kft
		Mz	Mz
		kft	kft
		1725.76	1725.76
		32.33	32.33
		1805.16	1805.16
		-155.59	-155.59
		8031.87	8031.87

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	383
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-606.05	1573.45	26.63	1700.48	191.99	7981.79

Combination No. 1964

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.16	1627.34	32.49	1626.23	-163.24	-8611.65
3	4	-623.13	1752.59	26.46	1538.35	184.35	7894.88

Combination No. 1965

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.09	1605.02	32.67	1787.57	-171.61	-8321.83
3	4	-606.05	1694.19	26.28	1718.06	175.98	7691.72

Combination No. 1966

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.91	1677.35	37.40	1710.77	-195.49	-8636.07
3	4	-636.30	1696.12	31.15	2026.18	209.95	8215.72

Combination No. 1967

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.94	1668.73	37.27	1710.77	-189.29	-8560.51
3	4	-631.32	1684.67	31.29	1615.45	216.16	8147.60


Combination No. 1968

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.31	1708.79	37.28	1834.76	-189.59	-8871.71
3	4	-652.69	1726.60	31.28	1740.12	215.85	8453.23

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	384
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 1969

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.90	1567.18	25.60	1331.49	-127.92	-7925.59
3	4	-577.35	1624.01	19.39	1260.08	135.51	7310.28

Combination No. 1970

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.91	1577.80	25.46	1236.14	-121.58	-8084.89
3	4	-586.35	1661.82	19.53	1150.80	141.85	7410.88

Combination No. 1971

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.05	1756.90	37.32	1832.74	-191.44	-8734.09
3	4	-652.43	1678.49	31.24	1742.14	214.00	8583.43

Combination No. 1972

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.69	1652.22	37.42	2048.27	-196.18	-8712.99
3	4	-635.07	1755.20	31.14	1968.09	209.27	8103.31

Combination No. 1973

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.25	1724.70	37.40	1766.34	-195.29	-8626.84
3	4	-642.64	1669.70	31.16	1684.21	210.15	8407.82

Combination No. 1974

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 385	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rpt		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.65	1826.22	37.31	1936.09	-191.16	-8614.08
3	4	-652.04	1649.09	31.25	1844.88	214.29	8691.99

Combination No. 1975

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1975

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.47	1777.15	37.41	1766.07	-195.53	-8347.45
3	4	-631.85	1617.25	31.15	1684.47	209.91	8375.92

Combination No. 1976

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1976

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.55	1702.48	37.33	1993.83	-192.17	-8901.12
3	4	-652.93	1738.89	31.22	1904.84	213.28	8430.79

Combination No. 1977

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1977

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.38	1699.35	37.42	2048.41	-196.05	-8743.36
3	4	-644.77	1708.07	31.14	1967.95	209.39	8352.84

Combination No. 1978

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1978

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.99	1696.00	25.48	1235.53	-122.13	-7828.62
3	4	-586.43	1543.62	19.52	1151.40	141.30	7669.37

Combination No. 1979


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1979

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.21	1650.82	25.59	1141.80	-127.57	-7708.25

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 386	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rpt		Phone: 1-800-778-4277	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-575.65	1530.93	19.40	1069.61	135.86	7478.59

Combination No. 1980

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1980

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	667.60	1753.86	37.27	1996.76	-189.50	-8775.13
3	4	-653.99	1687.51	31.28	1901.90	215.95	8587.22

Combination No. 1981

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1981

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.56	1723.30	37.27	2114.51	-189.44	-8505.11
3	4	-635.95	1650.18	31.28	2019.54	216.00	8336.42

Combination No. 1982

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1982

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.52	1712.00	37.39	1704.52	-194.98	-8435.98
3	4	-630.91	1641.41	31.16	1621.70	210.46	8260.16

Combination No. 1983

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1983

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.01	1783.56	32.48	1659.23	-162.39	-8233.14
3	4	-622.98	1595.53	26.48	1569.48	185.20	8269.00

Combination No. 1984


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 1984

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.23	1781.23	37.34	1893.82	-192.42	-8858.00
3	4	-661.61	1695.16	31.22	1805.39	213.02	8724.44

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	387
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
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Combination No. 1985
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.51	1675.18	37.99	1911.96	-192.55	-8826.29
3	4	-658.63	1801.21	31.30	1814.68	215.71	8478.15

Combination No. 1986
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.44	1663.44	38.36	1749.78	-191.88	-8329.66
3	4	-632.78	1696.33	31.81	1645.16	221.63	8275.40

Combination No. 1987
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.18	1671.98	38.52	2153.43	-199.34	-8402.03
3	4	-637.53	1708.24	31.65	2065.18	214.18	8290.02

Combination No. 1988
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.34	1770.43	38.00	1911.48	-192.99	-8740.68
3	4	-669.46	1705.96	31.29	1815.16	215.27	8876.34

Combination No. 1989
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.02	1640.72	38.16	2120.74	-200.42	-8445.33
3	4	-635.14	1732.76	31.13	2040.74	207.84	8181.11

Combination No. 1990
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
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Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	388
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.41	1634.00	37.85	1732.88	-185.80	-8370.42
3	4	-630.53	1719.41	31.45	1620.77	222.46	8122.86

Combination No. 1991
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	668.36	1717.50	38.00	1911.75	-192.75	-8872.50
3	4	-668.49	1758.89	31.30	1814.90	215.51	8716.36

Combination No. 1992
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.55	1822.88	38.01	1911.21	-193.23	-8461.29
3	4	-658.68	1653.51	31.29	1815.43	215.03	8844.43

Combination No. 1993
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.33	1725.72	38.54	1740.70	-200.15	-8210.17
3	4	-634.68	1634.05	31.63	1654.24	213.37	8399.61

Combination No. 1994
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.14	1738.11	38.34	2163.07	-190.56	-8274.68
3	4	-639.49	1642.11	31.84	2055.54	222.96	8473.90

Combination No. 1995
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.03	1754.43	37.84	2137.27	-185.36	-8163.98

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-635.15	1619.05	31.46	2024.21	222.90	8462.72

Combination No. 1996

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.48	1741.09	38.16	1717.30	-199.98	-8106.25
3	4	-630.60	1612.32	31.14	1636.34	208.28	8389.12

Combination No. 1997

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.84	1780.11	33.18	1643.06	-164.56	-8079.36
3	4	-629.55	1599.82	26.52	1548.95	185.85	8420.46

Combination No. 1998

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.74	1721.70	33.00	1822.78	-156.19	-7875.94
3	4	-612.44	1577.51	26.70	1710.28	194.22	8130.12

Combination No. 1999

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.81	1623.28	33.16	1643.86	-163.83	-8455.72
3	4	-629.52	1756.65	26.54	1548.15	186.57	8043.22


Combination No. 2000

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.73	1600.96	33.34	1805.19	-172.20	-8165.89
3	4	-612.44	1698.25	26.36	1727.87	178.20	7840.05

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	380
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2001

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.56	1673.30	38.07	2125.50	-196.09	-8480.14
3	4	-642.69	1700.18	31.23	2035.98	212.18	8364.06

Combination No. 2002

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.59	1664.67	37.94	1728.39	-189.88	-8404.58
3	4	-637.71	1688.73	31.36	1625.25	218.38	8295.94

Combination No. 2003

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.95	1704.73	37.94	1852.39	-190.19	-8715.77
3	4	-659.08	1730.66	31.36	1749.92	218.07	8601.57

Combination No. 2004

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.55	1563.12	26.21	1349.11	-128.52	-7769.65
3	4	-583.74	1628.06	19.47	1269.88	137.73	7458.62

Combination No. 2005

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.56	1573.74	26.13	1253.76	-122.18	-7928.95
3	4	-592.74	1665.87	19.60	1160.60	144.07	7559.22

Combination No. 2006

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.70	1752.84	37.98	1850.36	-192.03	-8578.15
3	4	-658.82	1682.55	31.32	1751.95	216.23	8731.77

Combination No. 2007

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2007

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.33	1648.16	38.09	2065.90	-196.77	-8557.06
3	4	-641.46	1759.26	31.21	1977.89	211.49	8251.64

Combination No. 2008

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2008

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.90	1720.64	38.07	1783.97	-195.89	-8470.90
3	4	-649.02	1673.76	31.23	1694.01	212.37	8556.15

Combination No. 2009

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2009

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.30	1822.17	37.98	1953.72	-191.75	-8458.14
3	4	-658.43	1653.15	31.32	1854.69	216.51	8840.33

Combination No. 2010

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2010

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.11	1773.09	38.07	1783.70	-196.13	-8191.51
3	4	-638.24	1621.31	31.23	1694.28	212.13	8524.25

Combination No. 2011


Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2011

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	659.20	1698.42	38.00	2011.46	-192.76	-8745.18

Units: US (English)

Design Code: AASHTO LRFD

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-659.32	1742.95	31.30	1914.64	215.50	8579.12

Combination No. 2012

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2012

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.03	1695.29	38.08	2066.04	-196.65	-8581.42
3	4	-651.15	1712.13	31.22	1977.75	211.61	8501.17

Combination No. 2013

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2013

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.63	1691.95	26.14	1253.16	-122.73	-7672.68
3	4	-592.82	1547.67	19.59	1161.21	143.52	7817.71

Combination No. 2014

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2014

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.85	1646.76	26.26	1159.42	-128.17	-7552.31
3	4	-582.04	1534.98	19.48	1079.41	138.08	7626.93

Combination No. 2015

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2015

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.25	1749.80	37.94	2014.39	-190.09	-8619.20
3	4	-660.38	1691.56	31.36	1911.71	218.17	8735.56

Combination No. 2016


Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2016

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.21	1719.24	37.94	2132.14	-190.04	-8349.18
3	4	-642.33	1654.24	31.36	2029.34	218.22	8484.75

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-662.15	1655.78	31.97	1839.53	217.60	8928.81

Combination No. 2028

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.83	1723.45	38.93	1760.91	-203.56	-8117.64
3	4	-638.15	1636.32	32.31	1678.35	215.94	8483.99

Combination No. 2029

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.64	1735.84	38.72	2183.29	-193.96	-8182.15
3	4	-642.96	1644.38	32.52	2079.64	225.54	8558.28

Combination No. 2030

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.53	1752.16	38.23	2157.49	-188.76	-8071.45
3	4	-638.63	1621.32	32.14	2048.31	225.47	8547.10

Combination No. 2031

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.98	1738.82	38.54	1737.52	-203.38	-8013.72
3	4	-634.08	1614.59	31.82	1660.45	210.85	8473.50


Combination No. 2032

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.34	1777.84	33.56	1663.28	-167.96	-7986.83
3	4	-633.02	1602.09	27.20	1573.05	188.42	8504.84

Units: US (English)

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Combination No. 2033

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.24	1719.43	33.38	1842.99	-159.59	-7783.41
3	4	-615.92	1579.77	27.38	1734.39	196.79	8214.50

Combination No. 2034

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.31	1621.01	33.55	1664.07	-167.23	-8363.19
3	4	-632.99	1758.92	27.22	1572.26	189.15	8127.59

Combination No. 2035

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.23	1598.70	33.73	1825.41	-175.60	-8073.36
3	4	-615.91	1700.51	27.04	1751.97	180.78	7924.43

Combination No. 2036

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.06	1671.03	38.46	2145.71	-199.49	-8387.61
3	4	-646.16	1702.45	31.91	2060.09	214.75	8448.44

Combination No. 2037

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.08	1662.41	38.33	1748.61	-193.28	-8312.05
3	4	-641.19	1691.00	32.04	1649.36	220.95	8380.32

Combination No. 2038

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.45	1702.47	38.33	1872.60	-193.59	-8623.24
3	4	-662.56	1732.93	32.04	1774.03	220.65	8685.95

Combination No. 2039

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2039

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.05	1560.85	26.66	1369.33	-131.92	-7677.12
3	4	-587.21	1630.33	20.15	1293.99	140.30	7543.00

Combination No. 2040

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2040

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.06	1571.48	26.52	1273.97	-125.58	-7836.43
3	4	-596.22	1668.14	20.29	1184.71	146.64	7643.60

Combination No. 2041

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2041

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.20	1750.58	38.37	1870.58	-195.43	-8485.62
3	4	-662.30	1684.82	32.00	1776.05	218.80	8816.15

Combination No. 2042

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2042

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.83	1645.89	38.47	2086.11	-200.17	-8464.53
3	4	-644.93	1761.53	31.89	2002.00	214.06	8336.02

Combination No. 2043


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2043

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.40	1718.37	38.45	1804.18	-199.29	-8378.37

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-652.50	1676.03	31.91	1718.12	214.95	8640.53

Combination No. 2044

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2044

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.80	1819.90	38.37	1973.93	-195.15	-8365.62
3	4	-661.90	1655.42	32.00	1878.79	219.08	8924.71

Combination No. 2045

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2045

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.61	1770.82	38.46	1803.91	-199.53	-8098.98
3	4	-641.71	1623.58	31.91	1718.39	214.71	8608.63

Combination No. 2046

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2046

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.69	1696.15	38.39	2031.67	-196.16	-8652.65
3	4	-662.80	1745.21	31.98	1938.75	218.07	8663.50

Combination No. 2047

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2047

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.53	1693.02	38.47	2086.25	-200.05	-8494.89
3	4	-654.63	1714.40	31.90	2001.86	214.19	8585.55

Combination No. 2048

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2048

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.13	1689.68	26.53	1273.37	-126.13	-7580.15
3	4	-596.29	1549.94	20.27	1185.31	146.09	7902.09

Units: US (English)

Design Code: AASHTO LRFD

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Sheet # 399

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Combination No. 2049

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	583.35	1644.49	26.65	1179.64	-131.57	-7459.78
3	4	-585.51	1537.25	20.16	1103.52	140.66	7711.31

Combination No. 2050

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.75	1747.54	38.33	2034.60	-193.49	-8526.67
3	4	-663.85	1693.83	32.04	1935.81	220.74	8819.93

Combination No. 2051

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.71	1716.97	38.33	2152.35	-193.44	-8256.65
3	4	-645.81	1656.51	32.04	2053.45	220.80	8569.13

Combination No. 2052

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.67	1705.67	38.45	1742.35	-198.98	-8187.52
3	4	-640.77	1647.74	31.92	1655.61	215.26	8492.88

Combination No. 2053

Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.16	1777.23	33.53	1697.07	-166.38	-7984.68
3	4	-632.84	1601.85	27.24	1603.39	190.00	8501.71

Combination No. 2054

Group Id: SER GP 1 Name: SERVICE GROUP 1

Units: US (English)

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Combination No. 2055

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.37	1774.90	38.39	1931.66	-196.42	-8609.54
3	4	-671.48	1701.49	31.97	1839.30	217.82	8957.15

Combination No. 2055

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.42	1675.90	-16.99	-942.54	107.08	-9228.48
3	4	-624.47	1752.21	-17.75	-953.63	-103.16	7803.01

Combination No. 2056

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.56	1664.31	-17.50	-1153.84	112.96	-8736.66
3	4	-598.40	1647.17	-18.11	-1171.98	-102.54	7545.42

Combination No. 2057

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.31	1672.86	-17.34	-750.19	105.51	-8809.03
3	4	-603.14	1659.08	-18.27	-751.96	-109.99	7610.05

Combination No. 2058

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	685.24	1771.14	-16.98	-943.02	106.64	-9142.87
3	4	-635.30	1656.96	-17.76	-953.15	-103.60	8201.20


Combination No. 2059

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.93	1641.43	-16.82	-733.76	99.21	-8847.51

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-600.98	1683.76	-17.92	-727.57	-111.03	7505.97

Combination No. 2060

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.31	1634.71	-17.14	-1121.63	113.82	-8772.60
3	4	-596.37	1670.41	-17.60	-1147.54	-96.41	7447.72

Combination No. 2061

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	684.27	1718.21	-16.99	-942.76	106.88	-8974.68
3	4	-634.32	1709.90	-17.75	-953.42	-103.36	8041.22

Combination No. 2062

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.46	1823.59	-16.98	-943.29	106.40	-8863.48
3	4	-624.51	1604.51	-17.76	-952.89	-103.84	8169.29

Combination No. 2063

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.46	1726.59	-17.32	-1162.93	104.69	-8617.17
3	4	-600.29	1584.89	-18.29	-1162.90	-110.81	7719.64


Combination No. 2064

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.27	1738.99	-17.53	-740.55	114.29	-8681.68
3	4	-605.10	1592.95	-18.08	-761.60	-101.21	7793.92

Units: US (English)

Design Code: AASHTO LRFD

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Combination No. 2065

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.94	1755.14	-17.15	-717.23	114.26	-8566.16
3	4	-600.99	1570.05	-17.59	-744.11	-95.97	7787.58

Combination No. 2066

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.39	1741.80	-16.83	-1137.20	99.65	-8508.43
3	4	-596.44	1563.32	-17.91	-1131.97	-110.59	7713.98

Combination No. 2067

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.34	1779.03	-12.14	-671.13	77.68	-8428.59
3	4	-597.81	1552.61	-13.00	-682.30	-74.70	7798.48

Combination No. 2068

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.23	1720.63	-12.32	-491.42	86.05	-8225.17
3	4	-580.70	1530.30	-12.82	-520.97	-66.33	7508.14

Combination No. 2069

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.31	1622.20	-12.16	-670.34	78.40	-8804.95
3	4	-597.78	1709.44	-12.98	-683.10	-73.98	7421.24

Combination No. 2070

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	403
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.23	1599.89	-11.98	-509.00	70.03	-8515.12
3	4	-580.70	1651.04	-13.16	-503.38	-82.35	7218.07

Combination No. 2071

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2071

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.49	1674.01	-16.92	-729.00	103.54	-8882.32
3	4	-608.52	1651.18	-17.82	-732.33	-106.69	7688.92

Combination No. 2072

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2072

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.49	1665.39	-17.05	-1126.11	109.74	-8806.76
3	4	-603.55	1639.73	-17.69	-1143.06	-100.49	7620.80

Combination No. 2073

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2073

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.86	1705.45	-17.04	-1002.11	109.44	-9117.95
3	4	-624.91	1681.66	-17.70	-1018.39	-100.80	7926.43

Combination No. 2074

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2074

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.54	1559.45	-4.99	-179.18	30.23	-8041.86
3	4	-555.53	1583.45	-6.19	-180.18	-37.99	6913.96

Combination No. 2075


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2075

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.54	1570.07	-5.13	-274.54	36.57	-8201.16

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	404
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-564.53	1621.26	-6.05	-289.46	-31.65	7014.57

Combination No. 2076

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2076

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.61	1753.56	-17.00	-1004.14	107.59	-8980.34
3	4	-624.66	1633.55	-17.74	-1016.37	-102.64	8056.63

Combination No. 2077

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2077

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.24	1648.87	-16.90	-788.61	102.85	-8959.24
3	4	-607.29	1710.26	-17.84	-790.42	-107.38	7576.50

Combination No. 2078

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2078

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.81	1721.35	-16.92	-1070.54	103.74	-8873.08
3	4	-614.86	1624.77	-17.82	-1074.30	-106.50	7881.01

Combination No. 2079

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2079

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.21	1822.88	-17.01	-900.78	107.87	-8860.33
3	4	-624.26	1604.15	-17.73	-913.63	-102.36	8165.19

Combination No. 2080


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2080

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.02	1773.80	-16.92	-1070.80	103.50	-8593.70
3	4	-604.07	1572.31	-17.83	-1074.04	-106.74	7849.11

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Combination No. 2081
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.10	1699.13	-16.99	-843.05	106.86	-9147.37
3	4	-625.16	1693.95	-17.75	-853.67	-103.37	7903.98

Combination No. 2082
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.94	1696.00	-16.90	-788.47	102.98	-9899.61
3	4	-616.99	1663.13	-17.84	-790.56	-107.26	7826.03

Combination No. 2083
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.62	1688.27	-5.12	-275.14	36.02	-7944.88
3	4	-564.61	1503.06	-6.06	-288.86	-32.20	7273.05

Combination No. 2084
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.84	1643.08	-5.00	-368.87	30.59	-7824.51
3	4	-553.83	1490.37	-6.18	-370.65	-37.64	7082.28


Combination No. 2085
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	676.16	1750.52	-17.05	-840.11	109.54	-9021.38
3	4	-626.21	1642.57	-17.69	-856.61	-100.70	8060.42

Combination No. 2086
 Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.12	1719.95	-17.05	-722.36	109.59	-8751.36
3	4	-608.17	1605.24	-17.69	-738.97	-100.65	7809.61

Combination No. 2087
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.08	1708.65	-16.93	-1132.36	104.05	-8682.23
3	4	-603.13	1596.47	-17.81	-1136.81	-106.19	7733.36

Combination No. 2088
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.15	1778.42	-12.18	-637.34	79.25	-8426.43
3	4	-597.63	1552.38	-12.96	-651.97	-73.13	7795.36

Combination No. 2089
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	683.78	1777.88	-16.98	-943.06	106.61	-9104.25
3	4	-633.83	1650.23	-17.76	-953.12	-103.63	8197.63

Combination No. 2090
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.43	1690.58	-13.75	-827.77	95.73	-9340.84
3	4	-636.44	1785.81	-16.15	-860.85	-87.30	7976.84

Combination No. 2091
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.58	1679.00	-14.26	-1039.07	101.61	-8849.02

Units: US (English)

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		Date	9/10/14
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-610.37	1680.77	-16.52	-1079.20	-86.68	7719.25

Combination No. 2092

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2092

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.33	1687.55	-14.10	-635.42	94.16	-8921.40
3	4	-615.11	1692.68	-16.68	-659.18	-94.13	7783.88

Combination No. 2093

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2093

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	693.26	1785.83	-13.74	-828.25	95.29	-9255.23
3	4	-647.27	1690.56	-16.16	-860.37	-87.74	8375.03

Combination No. 2094

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2094

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.94	1656.12	-13.58	-618.99	87.86	-8959.88
3	4	-612.95	1717.36	-16.32	-634.79	-95.17	7679.80

Combination No. 2095

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2095

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.33	1649.40	-13.89	-1006.86	102.48	-8884.97
3	4	-608.34	1704.01	-16.01	-1054.76	-80.55	7621.55

Combination No. 2096


[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2096

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	692.29	1732.90	-13.74	-827.99	95.54	-9387.05
3	4	-646.29	1743.49	-16.16	-860.64	-87.50	8215.05

Units: US (English)

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Combination No. 2097

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2097

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.48	1838.28	-13.73	-828.52	95.05	-8975.84
3	4	-636.49	1638.11	-16.17	-860.10	-87.98	8343.12

Combination No. 2098

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2098

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.48	1741.28	-14.08	-1048.15	93.35	-8729.53
3	4	-612.26	1618.48	-16.70	-1070.11	-94.95	7893.47

Combination No. 2099

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2099

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.28	1753.67	-14.29	-625.78	102.94	-8794.04
3	4	-617.07	1626.55	-16.49	-668.82	-85.35	7967.75

Combination No. 2100

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2100

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.95	1769.83	-13.90	-602.46	102.92	-8678.53
3	4	-612.96	1603.65	-16.00	-651.33	-80.11	7961.41

Combination No. 2101

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Combination No. 2101


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.40	1756.49	-13.59	-1022.43	88.30	-8620.80
3	4	-608.41	1596.92	-16.31	-1039.19	-94.73	7887.81

Combination No. 2102

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.35	1793.72	-9.08	-556.36	66.33	-8540.96
3	4	-609.78	1586.21	-11.40	-589.52	-58.84	7972.31

Combination No. 2103

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2103

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.25	1735.32	-9.08	-376.65	74.70	-8337.53
3	4	-592.68	1563.89	-11.22	-428.18	-50.47	7681.97

Combination No. 2104

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2104

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.32	1636.89	-8.92	-555.57	67.06	-8917.31
3	4	-609.75	1743.04	-11.39	-590.31	-58.12	7595.07

Combination No. 2105

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2105

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.25	1614.58	-8.74	-394.23	58.69	-8627.49
3	4	-592.67	1684.63	-11.57	-410.60	-66.49	7391.90

Combination No. 2106

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2106

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.49	1688.70	-13.67	-614.23	92.20	-8994.68
3	4	-620.50	1684.78	-16.23	-639.55	-90.84	7862.75

Combination No. 2107


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2107

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.51	1680.07	-13.81	-1011.34	98.40	-8919.13

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-615.52	1673.33	-16.10	-1050.28	-84.63	7794.63

Combination No. 2108

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2108

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.88	1720.14	-13.80	-887.34	98.09	-9230.32
3	4	-636.89	1715.26	-16.10	-925.61	-84.94	8100.26

Combination No. 2109

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2109

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.55	1574.14	-1.75	-64.41	18.89	-8154.22
3	4	-567.50	1617.05	-4.59	-87.40	-22.13	7087.79

Combination No. 2110

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2110

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.56	1584.76	-1.88	-159.77	25.23	-8313.52
3	4	-576.51	1654.86	-4.46	-196.67	-15.79	7188.40

Combination No. 2111

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2111

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	682.62	1768.24	-13.76	-889.37	96.25	-9092.70
3	4	-636.63	1667.15	-16.14	-923.58	-86.79	8230.46

Combination No. 2112


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2112

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.26	1663.56	-13.66	-673.83	91.51	-9071.60
3	4	-619.27	1743.86	-16.25	-697.64	-91.52	7750.33

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-609.60	1585.97	-11.37	-559.18	-57.27	7969.19

Combination No. 2124

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	691.80	1792.57	-13.74	-828.29	95.26	-9216.61
3	4	-645.81	1683.82	-16.16	-860.34	-87.77	8371.46

Combination No. 2125

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	680.96	1689.67	-9.92	-692.19	81.64	-9309.61
3	4	-637.74	1786.72	-14.06	-748.66	-68.23	8006.71

Combination No. 2126

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.11	1678.08	-10.43	-903.49	87.53	-8817.79
3	4	-611.67	1681.68	-14.42	-967.00	-67.60	7749.12

Combination No. 2127

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	659.85	1686.63	-10.27	-499.84	80.07	-8890.16
3	4	-616.41	1693.60	-14.58	-546.98	-75.05	7813.75


Combination No. 2128

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	691.79	1784.91	-9.91	-692.67	81.21	-9224.00
3	4	-648.57	1691.48	-14.07	-748.18	-68.66	8404.90

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 414	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Combination No. 2129

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.47	1655.20	-9.75	-483.41	73.77	-8928.64
3	4	-614.25	1718.27	-14.23	-522.60	-76.09	7709.67

Combination No. 2130

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.86	1648.48	-10.07	-871.27	88.39	-8853.74
3	4	-609.64	1704.92	-13.91	-942.57	-61.48	7651.42

Combination No. 2131

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	690.81	1731.98	-9.92	-492.40	81.45	-9355.81
3	4	-647.59	1744.41	-14.06	-748.44	-68.42	8244.92

Combination No. 2132

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	681.00	1837.37	-9.91	-492.94	80.96	-8944.61
3	4	-637.78	1639.03	-14.07	-747.91	-68.91	8372.99

Combination No. 2133

[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.00	1740.36	-10.26	-912.57	79.26	-8698.30
3	4	-613.56	1619.40	-14.60	-957.92	-75.87	7923.34

Combination No. 2134

[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	415
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.81	1752.76	-10.46	-490.19	88.85	-8762.81
3	4	-618.37	1627.47	-14.39	-556.63	-66.27	7997.62

Combination No. 2135
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.48	1768.91	-10.08	-466.87	88.83	-8647.29
3	4	-614.26	1604.56	-13.90	-539.13	-61.04	7991.28

Combination No. 2136
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.93	1755.57	-9.76	-886.85	74.21	-8589.57
3	4	-609.71	1597.84	-14.22	-927.00	-75.66	7917.68

Combination No. 2137
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.88	1792.81	-5.07	-420.78	52.24	-8509.72
3	4	-611.08	1587.12	-9.31	-477.33	-39.77	8002.18

Combination No. 2138
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.78	1734.40	-5.26	-241.06	60.61	-8306.30
3	4	-593.98	1564.81	-9.13	-315.99	-31.40	7711.84

Combination No. 2139
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.85	1635.97	-5.09	-419.98	52.97	-8886.08

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	416
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-611.05	1743.95	-9.29	-478.12	-39.04	7624.94

Combination No. 2140
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.77	1613.66	-4.91	-238.65	44.60	-8596.25
3	4	-593.97	1685.55	-9.47	-298.40	-47.41	7421.78

Combination No. 2141
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.02	1687.78	-9.85	-478.65	78.11	-8963.45
3	4	-621.79	1685.69	-14.13	-527.36	-71.76	7892.62

Combination No. 2142
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.04	1679.16	-9.98	-875.75	84.31	-8887.89
3	4	-616.82	1674.25	-14.00	-938.09	-65.56	7824.50

Combination No. 2143
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	681.41	1719.22	-9.97	-751.76	84.00	-9199.08
3	4	-638.19	1716.18	-14.01	-813.42	-65.86	8130.13

Combination No. 2144
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.08	1573.22	-2.08	-71.17	4.80	-8122.99
3	4	-568.80	1617.97	-2.50	-24.80	-3.06	7117.67

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 419	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-639.48	1677.08	-14.00	-657.63	-65.71	8264.12

Combination No. 2156

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.66	1733.72	-9.98	-472.01	84.16	-8832.49
3	4	-621.44	1639.75	-14.00	-534.00	-65.71	8013.31

Combination No. 2157

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	659.62	1722.42	-9.86	-882.01	78.62	-8763.36
3	4	-616.40	1630.99	-14.12	-931.83	-71.25	7937.06

Combination No. 2158

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.70	1792.19	-5.11	-386.99	53.82	-8507.57
3	4	-610.90	1586.89	-9.27	-446.99	-38.19	7999.06

Combination No. 2159

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	690.33	1791.65	-9.91	-692.70	81.17	-9185.38
3	4	-647.11	1684.74	-14.07	-748.14	-68.69	8401.33


Combination No. 2160

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	677.05	1687.53	-7.49	-610.72	74.14	-9227.75
3	4	-640.99	1798.86	-12.96	-685.16	-56.91	8083.34

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 420	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date 9/10/14	
File Name: Pier 12 Straddle.rcp		Date	

Combination No. 2161

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.20	1675.94	-8.00	-822.02	80.02	-8735.92
3	4	-614.92	1683.82	-13.33	-903.51	-56.29	7825.75

Combination No. 2162

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.94	1684.49	-7.84	-418.37	72.57	-8808.30
3	4	-619.66	1695.74	-13.49	-483.49	-63.74	7890.37

Combination No. 2163

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	687.88	1782.77	-7.48	-611.20	73.70	-9142.13
3	4	-651.82	1693.62	-12.97	-684.68	-57.35	8481.52

Combination No. 2164

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.56	1653.06	-7.32	-401.94	66.27	-8846.78
3	4	-617.50	1720.41	-13.13	-459.10	-64.78	7786.30

Combination No. 2165

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.95	1646.34	-7.64	-789.80	80.89	-8771.87
3	4	-612.89	1707.06	-12.82	-879.07	-50.16	7728.05

Combination No. 2166

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 421	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	686.90	1729.84	-7.49	-610.93	73.94	-9273.95
3	4	-650.84	1746.55	-12.97	-684.95	-57.11	8321.55

Combination No. 2167
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	677.09	1835.23	-7.48	-611.47	73.46	-8862.75
3	4	-641.03	1641.16	-12.98	-684.41	-57.59	8449.62

Combination No. 2168
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	653.09	1738.22	-7.82	-831.10	71.75	-8616.44
3	4	-616.81	1621.54	-13.51	-894.42	-64.56	7999.97

Combination No. 2169
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	657.90	1750.62	-8.03	-408.72	81.35	-8680.94
3	4	-621.62	1629.61	-13.30	-493.13	-54.96	8074.25

Combination No. 2170
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	653.57	1766.77	-7.65	-385.40	81.33	-8565.43
3	4	-617.51	1606.70	-12.81	-475.64	-49.72	8067.90

Combination No. 2171
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	649.02	1753.43	-7.33	-805.38	66.71	-8507.70

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 422	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-612.96	1599.98	-13.12	-863.50	-64.34	7994.30

Combination No. 2172
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	647.97	1790.67	-2.64	-339.31	44.74	-8427.86
3	4	-614.33	1589.26	-8.21	-413.83	-28.45	8078.81

Combination No. 2173
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	630.87	1732.26	-2.83	-159.59	53.11	-8224.43
3	4	-597.23	1566.95	-8.03	-252.49	-20.08	7788.47

Combination No. 2174
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	647.94	1633.84	-2.66	-338.51	45.46	-8804.21
3	4	-614.30	1746.09	-8.20	-414.62	-27.73	7701.57

Combination No. 2175
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	630.86	1611.52	-2.48	-177.18	37.09	-8514.39
3	4	-597.22	1687.69	-8.38	-234.91	-36.10	7498.40

Combination No. 2176
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	661.10	1685.64	-7.42	-397.18	70.60	-8881.59
3	4	-625.04	1687.83	-13.04	-463.86	-60.45	7969.25

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 425	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-633.51	1699.78	-13.05	-522.09	-61.01	8106.36

Combination No. 2188

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.25	1699.90	4.38	56.69	3.09	-7944.15
3	4	-581.13	1539.72	-1.28	-20.38	14.05	7553.38

Combination No. 2189

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.47	1654.72	4.50	-37.05	-2.35	-7823.78
3	4	-570.35	1527.03	-1.40	-102.17	8.61	7362.60

Combination No. 2190

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	678.79	1762.15	-7.55	-508.29	76.60	-9020.65
3	4	-642.73	1679.22	-12.91	-588.13	-54.45	8340.74

Combination No. 2191

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.75	1731.58	-7.55	-390.54	76.65	-8750.63
3	4	-624.69	1641.89	-12.91	-470.50	-54.40	8089.94


Combination No. 2192

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.71	1720.28	-7.43	-800.54	71.11	-8681.50
3	4	-619.65	1633.12	-13.03	-868.33	-59.94	8013.68

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 426	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Combination No. 2193

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2193

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.79	1790.05	-2.68	-305.52	46.31	-8425.70
3	4	-614.15	1589.03	-8.18	-383.49	-26.88	8075.68

Combination No. 2194

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2194

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	686.42	1789.51	-7.48	-611.23	73.67	-9103.52
3	4	-650.35	1686.88	-12.97	-684.65	-57.38	8477.96

Combination No. 2195

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2195

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.70	1683.47	-6.83	-593.09	73.54	-9071.81
3	4	-647.37	1792.92	-12.89	-675.35	-54.69	8231.68

Combination No. 2196

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2196

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.85	1671.88	-7.34	-804.40	79.43	-8579.99
3	4	-621.30	1687.88	-13.25	-893.70	-54.07	7974.09

Combination No. 2197

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2197


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.59	1680.43	-7.18	-400.74	71.97	-8652.36
3	4	-626.05	1699.79	-13.41	-473.68	-61.52	8038.71

Combination No. 2198

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 427	
		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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Phone: 1-800-778-4277			
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	680.53	1778.72	-6.82	-593.57	73.11	-8986.20
3	4	-658.20	1697.68	-12.90	-674.87	-55.13	8629.86

Combination No. 2199

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2199

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.21	1649.00	-6.66	-384.32	65.67	-8690.84
3	4	-623.89	1724.47	-13.06	-449.29	-62.56	7934.63

Combination No. 2200

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2200

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.60	1642.29	-6.97	-772.18	80.29	-8615.93
3	4	-619.27	1711.12	-12.74	-869.26	-47.94	7876.38

Combination No. 2201

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2201

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	679.55	1725.78	-6.82	-593.31	73.35	-9118.01
3	4	-657.23	1750.61	-12.89	-675.14	-54.88	8469.98

Combination No. 2202

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2202

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.74	1831.17	-6.81	-593.84	72.86	-8706.81
3	4	-647.42	1645.22	-12.90	-674.61	-55.37	8597.96

Combination No. 2203


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2203

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.74	1734.16	-7.16	-813.48	71.16	-8460.50

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 428	
		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
Phone: 1-800-778-4277		Checked	
File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-623.20	1625.60	-13.43	-884.62	-62.33	8148.30

Combination No. 2204

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2204

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.55	1746.56	-7.37	-391.10	80.75	-8525.00
3	4	-628.01	1633.67	-13.22	-483.32	-52.74	8222.59

Combination No. 2205

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2205

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.22	1762.71	-6.98	-367.78	80.73	-8409.49
3	4	-623.90	1610.76	-12.73	-465.83	-47.50	8216.24

Combination No. 2206

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2206

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.67	1749.37	-6.67	-787.75	66.11	-8351.76
3	4	-619.35	1604.03	-13.05	-853.69	-62.12	8142.64

Combination No. 2207

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2207

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.62	1786.61	-1.98	-321.68	44.15	-8271.92
3	4	-620.72	1593.32	-8.14	-404.02	-26.23	8227.15

Combination No. 2208


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2208

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.51	1728.20	-2.16	-141.97	52.51	-8068.50
3	4	-603.61	1571.01	-7.96	-242.69	-17.86	7936.81

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	429
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2209
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.59	1629.78	-1.99	-320.89	44.87	-8648.28
3	4	-620.69	1750.15	-8.12	-404.82	-25.51	7849.90

Combination No. 2210
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.51	1607.46	-1.81	-159.56	36.50	-8358.45
3	4	-603.61	1691.75	-8.30	-225.10	-33.88	7646.74

Combination No. 2211
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.75	1681.58	-6.75	-379.56	70.01	-8725.65
3	4	-631.43	1691.89	-12.96	-454.05	-58.22	8117.58

Combination No. 2212
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.78	1672.96	-6.88	-776.66	76.21	-8650.09
3	4	-626.45	1680.45	-12.83	-864.78	-52.02	8049.46

Combination No. 2213
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.14	1713.02	-6.88	-652.67	75.90	-8961.28
3	4	-647.82	1722.38	-12.84	-740.11	-52.33	8355.09

Combination No. 2214
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.14	1713.02	-6.88	-652.67	75.90	-8961.28
3	4	-647.82	1722.38	-12.84	-740.11	-52.33	8355.09

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	430
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	594.82	1567.02	5.18	170.26	-3.30	-7885.19
3	4	-578.44	1624.17	-1.33	98.10	10.48	7342.63

Combination No. 2215
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.82	1571.64	5.04	74.91	3.04	-8044.49
3	4	-587.44	1661.98	-1.19	-11.18	16.82	7443.23

Combination No. 2216
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.89	1761.13	-6.84	-654.69	74.06	-8823.67
3	4	-647.56	1674.27	-12.88	-738.09	-54.17	8485.29

Combination No. 2217
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.52	1656.45	-6.74	-439.16	69.32	-8802.57
3	4	-630.20	1750.97	-12.98	-512.14	-58.91	8005.17

Combination No. 2218
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.09	1728.92	-6.75	-721.09	70.21	-8716.41
3	4	-637.76	1665.48	-12.96	-796.02	-58.02	8309.68

Combination No. 2219
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	669.49	1830.45	-6.84	-551.33	74.34	-8703.66

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	431
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-647.17	1644.86	-12.87	-635.35	-53.89	8593.85

Combination No. 2220

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.30	1781.38	-6.75	-721.35	69.97	-8437.03
3	4	-626.98	1613.02	-12.96	-795.76	-58.27	8277.77

Combination No. 2221

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	670.39	1706.71	-6.82	-493.60	73.33	-8990.70
3	4	-648.06	1734.66	-12.89	-575.40	-54.90	8332.64

Combination No. 2222

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.22	1703.58	-6.74	-439.02	69.45	-8832.93
3	4	-639.90	1703.84	-12.98	-512.28	-58.78	8254.70

Combination No. 2223

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.90	1695.84	5.05	74.31	2.49	-7788.21
3	4	-587.52	1543.77	-1.20	-10.58	16.27	7701.72


Combination No. 2224

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	593.12	1650.66	5.17	-19.43	-2.95	-7667.84
3	4	-576.74	1531.08	-1.32	-92.37	10.83	7510.94

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	432
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2225

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.44	1758.09	-6.88	-490.66	76.00	-8864.71
3	4	-649.12	1683.28	-12.83	-578.33	-52.23	8489.08

Combination No. 2226

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.40	1727.52	-6.88	-372.92	76.06	-8594.69
3	4	-631.07	1645.95	-12.83	-460.69	-52.18	8238.28

Combination No. 2227

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.36	1716.22	-6.76	-782.91	70.52	-8525.56
3	4	-626.04	1637.18	-12.95	-858.53	-57.71	8162.02

Combination No. 2228

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.44	1786.00	-2.01	-287.89	45.72	-8269.76
3	4	-620.53	1593.09	-8.10	-373.69	-24.66	8224.02

Combination No. 2229

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	679.06	1785.46	-6.82	-593.61	73.07	-8947.58
3	4	-656.74	1690.94	-12.90	-674.84	-55.16	8626.29

Combination No. 2230

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 433	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed CAM	
Version: 12.01.00.57		Date 9/10/14	
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File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.20	1681.20	-6.44	-572.88	70.14	-8979.28
3	4	-650.85	1795.19	-12.21	-651.25	-52.11	8316.06

Combination No. 2231

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2231

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.34	1669.62	-6.95	-784.18	76.03	-8487.46
3	4	-624.78	1690.15	-12.57	-869.59	-51.49	8058.47

Combination No. 2232

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2232

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.09	1678.16	-6.79	-380.53	68.57	-8559.83
3	4	-629.52	1702.06	-12.73	-449.57	-58.94	8123.09

Combination No. 2233

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2233

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	676.02	1776.45	-6.43	-573.36	69.70	-8893.67
3	4	-661.68	1699.94	-12.22	-650.77	-52.55	8714.24

Combination No. 2234

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2234

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.71	1646.73	-6.27	-364.10	62.27	-8598.31
3	4	-627.36	1726.74	-12.38	-425.19	-59.98	8019.01

Combination No. 2235


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2235

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.09	1640.02	-6.58	-751.96	76.89	-8523.41

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 434	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		Designed CAM	
Version: 12.01.00.57		Date 9/10/14	
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File Name: Pier 12 Straddle.rcp		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-622.75	1713.39	-12.06	-845.16	-45.36	7960.76

Combination No. 2236

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2236

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	675.05	1723.52	-6.43	-573.10	69.95	-9025.48
3	4	-660.70	1752.88	-12.21	-651.03	-52.31	8554.26

Combination No. 2237

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2237

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.24	1828.90	-6.42	-573.63	69.46	-8614.28
3	4	-650.90	1647.49	-12.22	-650.50	-52.79	8682.33

Combination No. 2238

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2238

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.24	1731.90	-6.77	-793.26	67.76	-8367.97
3	4	-626.67	1627.87	-12.75	-860.51	-59.76	8232.68

Combination No. 2239

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2239

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.05	1744.29	-6.98	-370.89	77.35	-8432.48
3	4	-631.48	1635.93	-12.54	-459.22	-50.16	8306.97

Combination No. 2240


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2240

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.72	1760.44	-6.59	-347.57	77.33	-8316.96
3	4	-627.37	1613.03	-12.05	-441.72	-44.93	8300.62

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 435
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		
Version: 12.01.00.57		
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Phone: 1-800-778-4277		
File Name: Pier 12 Straddle.rcp		

Combination No. 2241

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2241

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.17	1747.10	-6.28	-767.54	62.71	-8259.24
3	4	-622.82	1606.30	-12.37	-829.59	-59.54	8227.02

Combination No. 2242

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2242

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.12	1784.34	-1.59	-301.47	40.74	-8179.39
3	4	-624.19	1595.59	-7.46	-379.92	-23.66	8311.53

Combination No. 2243

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2243

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.01	1725.93	-1.77	-121.75	49.11	-7975.97
3	4	-607.09	1573.28	-7.28	-218.58	-15.29	8021.19

Combination No. 2244

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2244

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.09	1627.51	-1.61	-300.68	41.47	-8555.75
3	4	-624.16	1752.42	-7.44	-380.71	-22.93	7934.28

Combination No. 2245

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2245


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.01	1605.19	-1.42	-139.34	33.10	-8265.92
3	4	-607.08	1694.02	-7.62	-201.00	-31.30	7731.12

Combination No. 2246

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 436
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		
Version: 12.01.00.57		
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File Name: Pier 12 Straddle.rcp		

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.25	1679.31	-6.36	-359.34	66.61	-8633.12
3	4	-634.91	1694.16	-12.28	-429.95	-55.65	8201.96

Combination No. 2247

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2247

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.27	1670.69	-6.50	-756.45	72.81	-8557.56
3	4	-629.93	1682.71	-12.15	-840.68	-49.45	8133.84

Combination No. 2248

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2248

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.64	1710.75	-6.49	-632.45	72.50	-8868.75
3	4	-651.30	1724.64	-12.16	-716.01	-49.75	8439.47

Combination No. 2249

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2249

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	590.32	1564.75	5.56	190.48	-6.70	-7792.66
3	4	-581.91	1626.43	-0.65	122.21	13.06	7427.01

Combination No. 2250

[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2250

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.32	1575.38	5.43	95.13	-0.36	-7951.96
3	4	-590.92	1664.24	-0.51	12.93	19.40	7527.61

Combination No. 2251


[Group Id: SER GP 1 Name: SERVICE GROUP 1]

Combination No. 2251

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.39	1758.86	6.45	-434.48	70.66	-8731.14

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	437
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-651.04	1676.53	-12.20	-713.98	-51.60	8569.67

Combination No. 2252
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.02	1654.18	-6.35	-418.94	65.92	-8710.04
3	4	-633.68	1753.24	-12.30	-488.04	-56.34	8089.55

Combination No. 2253
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.59	1726.66	-6.37	-700.87	66.81	-8623.89
3	4	-641.24	1667.75	-12.28	-771.92	-55.45	8394.06

Combination No. 2254
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	664.99	1828.18	-6.46	-531.12	70.94	-8611.13
3	4	-650.64	1647.13	-12.19	-611.25	-51.31	8678.23

Combination No. 2255
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.80	1779.11	-6.36	-701.14	66.56	-8344.50
3	4	-630.46	1615.29	-12.28	-771.65	-55.69	8362.15

Combination No. 2256
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	665.88	1704.44	-6.43	-473.38	69.93	-8898.17
3	4	-651.54	1736.93	-12.21	-551.29	-52.32	8417.02

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Combination No. 2257
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.72	1701.31	-6.35	-418.80	66.05	-8740.41
3	4	-643.37	1706.11	-12.30	-488.18	-56.21	8339.08

Combination No. 2258
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	599.40	1693.58	5.44	94.52	-0.91	-7695.69
3	4	-590.99	1546.04	-0.52	13.53	18.85	7786.10

Combination No. 2259
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	588.62	1648.39	5.56	0.79	-6.35	-7575.32
3	4	-580.22	1533.35	-0.64	-68.26	13.41	7595.32

Combination No. 2260
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.94	1755.82	-6.49	-470.45	72.60	-8772.18
3	4	-652.59	1685.55	-12.15	-554.22	-49.65	8573.46


Combination No. 2261
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.90	1725.25	-6.49	-352.70	72.65	-8502.16
3	4	-634.55	1648.22	-12.15	-436.59	-49.60	8322.65

Combination No. 2262
 Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
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		Date	
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File Name: Pier 12 Straddle.rcp			

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.86	1713.96	-6.37	-762.70	67.12	-8433.03
3	4	-629.51	1639.45	-12.27	-834.42	-55.14	8246.40

Combination No. 2263

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2263

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.94	1783.73	-1.62	-267.68	42.32	-8177.24
3	4	-624.01	1595.36	-7.42	-349.58	-22.08	8308.40

Combination No. 2264

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2264

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	674.56	1783.19	-6.43	-573.40	69.67	-8855.05
3	4	-660.22	1693.21	-12.22	-650.73	-52.58	8710.67

Combination No. 2265

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2265

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.62	1676.44	16.94	1133.98	-104.73	-8414.98
3	4	-691.56	1848.24	17.80	1139.91	105.51	9144.44

Combination No. 2266

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2266

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.54	1664.69	17.31	971.80	-104.06	-7918.34
3	4	-665.71	1743.36	18.30	970.39	111.43	8891.68

Combination No. 2267


Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2267

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.29	1673.23	17.47	1375.45	-111.51	-7990.72

Units: US (English)

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		Phone: 1-800-778-4277	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-670.46	1755.28	18.14	1390.41	103.98	8956.30

Combination No. 2268

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2268

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.44	1771.68	16.95	1133.50	-105.16	-8329.36
3	4	-702.39	1753.00	17.79	1140.40	105.07	9542.62

Combination No. 2269

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2269

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.13	1641.97	17.11	1342.76	-112.60	-8034.01
3	4	-668.08	1779.79	17.63	1365.98	97.64	8847.39

Combination No. 2270

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2270

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.51	1635.25	16.80	954.90	-97.98	-7959.10
3	4	-663.46	1766.44	17.94	946.00	112.26	8789.14

Combination No. 2271

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2271

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.47	1718.75	16.95	1133.77	-104.92	-8461.18
3	4	-701.42	1805.93	17.79	1140.13	105.31	9382.64

Combination No. 2272

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2272

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.66	1824.13	16.96	1133.23	-105.41	-8049.98
3	4	-691.61	1700.54	17.78	1140.66	104.83	9510.72


Units: US (English)

Design Code: AASHTO LRFD

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Units: US (English)

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Sheet # 442

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Combination No. 2279

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.85	1722.95	11.94	1044.80	-68.36	-7464.62
3	4	-645.37	1624.54	13.20	1035.51	84.02	8796.40

Combination No. 2279

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.92	1624.53	12.11	865.88	-76.01	-8044.40
3	4	-662.45	1803.68	13.03	873.38	76.37	8709.50

Combination No. 2280

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	597.84	1602.21	12.29	1027.21	-84.38	-7754.57
3	4	-645.37	1745.28	12.85	1053.10	68.00	8506.34

Combination No. 2281

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.67	1674.55	17.02	1347.52	-108.26	-8068.82
3	4	-675.62	1747.21	17.72	1361.22	101.97	9030.34

Combination No. 2282

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.69	1665.93	16.88	950.42	-102.06	-7993.26
3	4	-670.64	1735.77	17.86	950.49	108.18	8962.22


Combination No. 2283

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.06	1705.99	16.89	1074.41	-102.37	-8304.45

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-692.01	1777.70	17.85	1075.16	107.87	9267.85

Combination No. 2284
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	572.66	1564.37	5.22	571.14	-40.70	-7358.34
3	4	-616.67	1675.10	5.96	595.11	27.53	8124.90

Combination No. 2285
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.67	1575.00	5.08	475.78	-34.36	-7517.64
3	4	-625.67	1712.91	6.10	485.84	33.87	8225.50

Combination No. 2286
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.81	1754.10	16.93	1072.38	-104.21	-8166.83
3	4	-691.75	1729.59	17.81	1077.18	106.03	9398.05

Combination No. 2287
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.44	1649.41	17.03	1287.92	-108.95	-8145.74
3	4	-674.39	1806.29	17.71	1303.13	101.29	8917.93

Combination No. 2288
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.01	1721.89	17.01	1005.99	-108.06	-8059.58
3	4	-681.95	1720.80	17.73	1019.25	102.17	9222.44

Units: US (English)

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Combination No. 2289
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.41	1823.42	16.93	1175.74	-103.93	-8046.83
3	4	-691.36	1700.18	17.82	1179.92	106.31	9506.61

Combination No. 2290
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.22	1774.34	17.02	1005.72	-108.30	-7780.19
3	4	-671.17	1668.34	17.72	1019.51	101.93	9190.54

Combination No. 2291
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.30	1699.67	16.95	1233.48	-104.94	-8333.86
3	4	-692.25	1789.98	17.79	1239.87	105.30	9245.40

Combination No. 2292
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.14	1696.54	17.03	1288.06	-108.82	-8176.10
3	4	-684.09	1759.16	17.71	1302.99	101.41	9167.46


Combination No. 2293
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	581.74	1693.20	5.09	475.18	-34.90	-7261.36
3	4	-625.75	1594.71	6.09	486.44	33.32	8483.99

Combination No. 2294
Group Id: SER GP 1 Name: SERVICE GROUP I

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	570.96	1648.01	5.21	381.44	-40.34	-7140.99
3	4	-614.97	1582.02	5.97	404.65	27.88	8293.21

Combination No. 2295
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.36	1751.05	16.89	1236.41	-102.27	-8207.88
3	4	-693.31	1738.60	17.85	1236.94	107.97	9401.84

Combination No. 2296
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.32	1720.49	16.89	1354.16	-102.21	-7937.86
3	4	-675.26	1701.27	17.85	1354.58	108.02	9151.04

Combination No. 2297
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.28	1709.19	17.01	944.16	-107.75	-7868.73
3	4	-670.23	1692.50	17.73	956.74	102.48	9074.78

Combination No. 2298
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.77	1780.75	12.09	898.88	-75.16	-7665.89
3	4	-662.30	1646.62	13.05	904.51	77.22	9083.62

Combination No. 2299
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.98	1778.42	16.95	1133.47	-105.20	-8290.75

Units: US (English)

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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-700.93	1746.26	17.79	1140.43	105.04	9539.05

Combination No. 2300
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.60	1661.75	13.70	1019.21	-93.38	-8302.61
3	4	-679.59	1814.65	16.20	1047.13	89.65	8970.61

Combination No. 2301
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.53	1650.00	14.07	857.03	-92.72	-7805.98
3	4	-653.74	1709.77	16.71	877.61	95.58	8717.85

Combination No. 2302
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.27	1658.55	14.23	1260.68	-100.17	-7878.35
3	4	-658.49	1721.68	16.55	1297.63	88.12	8782.47

Combination No. 2303
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.43	1756.99	13.71	1018.73	-93.82	-8217.00
3	4	-690.42	1719.40	16.20	1047.61	89.21	9368.79

Combination No. 2304
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.11	1627.28	13.87	1227.99	-101.25	-7921.65
3	4	-656.10	1746.19	16.03	1273.19	81.78	8673.56

Units: US (English)

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Combination No. 2305
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.50	1620.56	13.55	840.13	-86.63	-7846.74
3	4	-651.49	1732.84	16.35	853.22	96.40	8615.31

Combination No. 2306
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.45	1704.06	13.70	1019.00	-93.58	-8348.82
3	4	-689.44	1772.33	16.20	1047.35	89.46	9208.81

Combination No. 2307
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.64	1809.45	13.71	1018.46	-94.06	-7937.61
3	4	-679.64	1666.95	16.19	1047.88	88.97	9336.89

Combination No. 2308
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.42	1712.28	14.25	847.95	-100.99	-7686.49
3	4	-655.64	1647.49	16.53	886.69	87.31	8892.07


Combination No. 2309
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.23	1724.67	14.04	1270.32	-91.39	-7751.00
3	4	-660.44	1655.55	16.74	1287.99	96.90	8966.35

Combination No. 2310
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

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		Phone: 1-800-778-4277	

Combination No. 2311
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.12	1740.99	13.54	1244.52	-86.19	-7640.30
3	4	-656.11	1632.48	16.36	1256.66	96.84	8955.17

Combination No. 2312
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	605.57	1727.65	13.86	824.55	-100.81	-7582.57
3	4	-651.56	1625.76	16.04	868.79	82.22	8881.57

Combination No. 2313
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.93	1766.67	8.88	750.31	-65.39	-7555.68
3	4	-650.51	1613.26	11.42	781.40	59.79	8912.92

Combination No. 2314
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	589.83	1708.27	8.70	930.03	-57.02	-7352.26
3	4	-633.40	1590.94	11.60	942.73	68.16	8622.57

Combination No. 2315
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.90	1609.84	8.86	751.11	-64.66	-7932.03
3	4	-650.48	1770.09	11.44	780.60	60.51	8535.67

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-633.40	1711.68	11.26	960.32	52.14	8332.51

Combination No. 2316

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.65	1659.86	13.77	1232.75	-96.92	-7956.45
3	4	-663.65	1713.62	16.13	1268.43	86.12	8856.51

Combination No. 2317

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.68	1651.24	13.64	835.64	-90.71	-7880.90
3	4	-658.67	1702.17	16.26	857.70	92.32	8788.39

Combination No. 2318

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.05	1691.30	13.65	959.64	-91.02	-8192.09
3	4	-680.04	1744.10	16.26	982.37	92.01	9094.02

Combination No. 2319

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	564.64	1549.69	1.97	456.36	-29.35	-7245.97
3	4	-604.69	1641.50	4.37	502.33	11.67	7951.07


Combination No. 2320

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.65	1560.31	1.84	361.01	-23.01	-7405.27
3	4	-613.70	1679.31	4.51	393.05	18.01	8051.67

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	450
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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2321

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.79	1739.41	13.69	957.61	-92.87	-8054.47
3	4	-679.78	1695.99	16.22	984.40	90.17	9224.22

Combination No. 2322

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.42	1634.72	13.79	1173.15	-97.61	-8033.37
3	4	-662.42	1772.70	16.11	1210.34	85.43	8744.10

Combination No. 2323

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.99	1707.20	13.77	891.22	-96.72	-7947.22
3	4	-669.98	1687.20	16.13	926.46	86.32	9048.61

Combination No. 2324

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.39	1808.73	13.68	1060.97	-92.58	-7934.46
3	4	-679.38	1666.59	16.22	1087.13	90.45	9332.78

Combination No. 2325

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.21	1759.65	13.78	890.95	-96.96	-7667.83
3	4	-659.20	1634.75	16.13	926.73	86.07	9016.71

Combination No. 2326

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	CAM
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.29	1684.99	13.70	1118.71	-93.59	-8221.50
3	4	-680.28	1756.38	16.20	1147.09	89.44	9071.57

Combination No. 2327

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2327

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.12	1681.85	13.79	1173.29	-97.48	-8063.74
3	4	-672.11	1725.57	16.12	1210.20	85.56	8993.63

Combination No. 2328

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2328

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.73	1678.51	1.85	360.41	-23.56	-7149.00
3	4	-613.78	1561.11	4.49	393.65	17.46	8310.16

Combination No. 2329

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2329

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	562.95	1633.32	1.96	266.67	-29.00	-7028.63
3	4	-603.00	1548.42	4.38	311.86	12.02	8119.38

Combination No. 2330

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2330

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.34	1736.37	13.65	1121.64	-90.92	-8095.51
3	4	-681.33	1705.00	16.26	1144.16	92.11	9228.01

Combination No. 2331


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2331

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.30	1705.80	13.64	1239.39	-90.87	-7825.50

Units: US (English)

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed	CAM
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-663.29	1667.67	16.26	1261.79	92.16	8977.21

Combination No. 2332

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2332

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.26	1694.50	13.76	829.39	-96.41	-7756.36
3	4	-658.25	1658.91	16.14	863.96	86.63	8900.95

Combination No. 2333

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2333

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.75	1766.06	8.85	784.11	-63.81	-7553.52
3	4	-650.32	1613.02	11.46	811.73	61.36	8909.79

Combination No. 2334

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2334

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.97	1763.73	13.71	1018.70	-93.85	-8178.38
3	4	-688.96	1712.66	16.19	1047.65	89.18	9365.22

Combination No. 2335

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2335

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.07	1662.66	9.87	883.63	-79.29	-8333.85
3	4	-678.29	1813.73	14.11	934.94	70.57	8940.73

Combination No. 2336


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2336

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	609.00	1650.92	10.24	721.45	-78.63	-7837.21
3	4	-652.44	1708.85	14.61	765.42	76.50	8687.98

Units: US (English)

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Combination No. 2337

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2337

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.75	1659.46	10.40	1125.10	-86.08	-7909.59
3	4	-657.19	1720.76	14.45	1185.44	69.05	8752.60

Combination No. 2338

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2338

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.90	1757.91	9.88	883.15	-79.73	8248.23
3	4	-689.12	1718.48	14.10	935.42	70.14	9338.92

Combination No. 2339

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2339

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.58	1628.20	10.04	1092.41	-87.16	-7952.88
3	4	-654.80	1745.28	13.94	1161.00	62.71	8643.69

Combination No. 2340

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2340

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.97	1621.48	9.73	704.54	-72.55	-7877.97
3	4	-650.19	1731.93	14.25	741.03	77.32	8585.44

Combination No. 2341

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2341


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.92	1704.98	9.88	883.41	-79.49	-8380.05
3	4	-688.15	1771.41	14.10	935.15	70.38	9178.94

Combination No. 2342

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Combination No. 2343

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2343

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.12	1810.36	9.89	882.88	-79.97	-7968.85
3	4	-678.34	1666.03	14.09	935.69	69.89	9307.01

Combination No. 2344

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2344

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.90	1713.20	10.42	712.36	-86.90	-7717.72
3	4	-654.34	1646.57	14.43	774.50	68.23	8862.20

Combination No. 2345

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2345

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.70	1725.59	10.21	1134.74	-77.30	-7782.23
3	4	-659.15	1654.63	14.64	1175.79	77.83	8936.48

Combination No. 2346

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2346

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.59	1741.91	9.72	1108.94	-72.11	-7671.53
3	4	-654.81	1631.57	14.26	1144.46	77.76	8925.30

Combination No. 2347

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2347

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.04	1728.57	10.03	688.97	-86.72	-7613.80
3	4	-650.26	1624.84	13.95	756.60	63.14	8851.70

Combination No. 2348


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2348

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.41	1767.59	5.05	614.73	-51.30	-7586.91

Units: US (English)

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		Job # 59219	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-649.21	1612.34	9.33	669.20	40.71	8883.04

Combination No. 2348

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.30	1709.18	4.87	794.45	-42.93	-7383.49
3	4	-632.10	1590.03	9.51	830.54	49.08	8592.70

Combination No. 2349

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.38	1610.76	5.04	615.53	-50.58	-7963.27
3	4	-649.18	1769.17	9.34	668.41	41.44	8505.80

Combination No. 2350

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.30	1588.44	5.22	776.86	-58.95	-7673.44
3	4	-632.10	1710.77	9.16	848.13	33.07	8302.64

Combination No. 2351

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.13	1660.78	9.95	1097.17	-82.83	-7987.69
3	4	-662.35	1712.70	14.03	1156.24	67.04	8826.64


Combination No. 2352

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.15	1652.15	9.82	700.06	-76.63	-7912.13
3	4	-657.37	1701.25	14.17	745.51	73.24	8758.52

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 456	
		Job # 59219	
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		Date	

Combination No. 2353

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.52	1692.21	9.82	824.06	-76.93	-8223.32
3	4	-678.74	1743.18	14.16	870.18	72.94	9064.15

Combination No. 2354

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	566.12	1550.60	1.85	320.78	-15.26	-7277.20
3	4	-603.40	1640.58	2.27	390.14	-7.41	7921.20

Combination No. 2355

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.12	1561.22	-1.99	225.43	-8.92	-7436.50
3	4	-612.40	1678.39	2.41	280.86	-1.07	8021.80

Combination No. 2356

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.26	1740.32	9.86	822.03	-78.78	-8085.70
3	4	-678.48	1695.07	14.12	872.21	71.09	9194.35

Combination No. 2357

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.90	1635.64	9.96	1037.56	-83.52	-8064.61
3	4	-661.12	1771.78	14.02	1098.15	66.35	8714.23

Combination No. 2358

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.46	1708.12	9.94	755.63	-82.63	-7978.45
3	4	-668.68	1686.28	14.04	814.27	67.24	9018.74

Combination No. 2359

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.86	1809.65	9.86	925.39	-78.50	-7965.70
3	4	-678.09	1665.67	14.13	974.94	71.37	9302.91

Combination No. 2360

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	614.68	1760.57	9.95	755.37	-82.87	-7699.06
3	4	-657.90	1633.83	14.03	814.54	67.00	8986.83

Combination No. 2361

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.76	1685.90	9.88	983.12	-79.51	-8252.73
3	4	-678.98	1755.47	14.10	1034.90	70.36	9041.70

Combination No. 2362

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.59	1682.77	9.96	1037.70	-83.39	-8094.97
3	4	-670.81	1724.65	14.02	1098.01	66.48	8963.75


Combination No. 2363

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.20	1679.43	1.98	224.83	-9.47	-7180.23

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 488	
		Job # 59219	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-612.48	1560.19	2.40	281.46	-1.62	8280.29

Combination No. 2364

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	564.42	1634.24	-1.86	131.09	-14.91	-7059.86
3	4	-601.70	1547.50	2.28	199.67	-7.05	8089.51

Combination No. 2365

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.81	1737.28	9.82	986.06	-76.83	-8126.75
3	4	-680.04	1704.08	14.16	1031.96	73.03	9198.14

Combination No. 2366

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.77	1706.72	9.82	1103.81	-76.78	-7856.73
3	4	-661.99	1666.76	14.16	1149.60	73.09	8947.33

Combination No. 2367

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	613.73	1695.42	9.94	693.81	-82.32	-7787.60
3	4	-656.96	1657.99	14.04	751.76	67.55	8871.08


Combination No. 2368

Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	608.22	1766.98	5.02	648.52	-49.73	-7584.75
3	4	-649.02	1612.11	9.36	699.54	42.29	8879.92


Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 459
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
File Name: Pier 12 Straddle.rcp		
Combination No. 2369		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2369		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 644.44 1764.65 9.88 883.11 -79.76 -8209.61		
3 4 -687.66 1711.74 14.10 935.45 70.11 9335.35		
Combination No. 2370		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2370		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 638.98 1664.80 7.44 802.16 -71.79 -8415.71		
3 4 -675.04 1811.59 13.01 871.44 59.26 8864.11		
Combination No. 2371		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2371		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 612.91 1653.05 7.81 639.98 -71.12 -7919.07		
3 4 -649.19 1706.71 13.52 701.92 65.19 8611.35		
Combination No. 2372		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2372		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 617.66 1661.60 7.97 1043.63 -78.58 -7991.45		
3 4 -653.94 1718.62 13.36 1121.94 57.73 8675.97		
Combination No. 2373		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2373		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 649.81 1760.05 7.45 801.68 -72.23 -8330.10		
3 4 -685.87 1716.34 13.01 871.92 58.82 9262.29		
Combination No. 2374		
Group Id: SER GP 1 Name: SERVICE GROUP I		


Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 460
		Job # 59219
		Designed CAM
		Date 9/10/14
		Checked
		Date
File Name: Pier 12 Straddle.rcp		
Combination No. 2375		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2375		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 615.49 1630.34 7.61 1010.94 -79.66 -8034.74		
3 4 -651.56 1743.14 12.85 1097.50 51.39 8567.07		
Combination No. 2376		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2376		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 610.88 1623.62 7.30 623.07 -65.04 -7959.84		
3 4 -646.94 1729.79 13.16 677.53 66.01 8508.81		
Combination No. 2377		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2377		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 648.84 1707.12 7.45 801.94 -71.99 -8461.91		
3 4 -684.90 1769.28 13.01 871.66 59.06 9102.31		
Combination No. 2378		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2378		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 639.03 1812.50 7.46 801.41 -72.47 -8050.71		
3 4 -675.09 1663.89 13.00 872.19 58.58 9230.39		
Combination No. 2379		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2379		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 614.81 1715.33 7.99 630.89 -79.39 -7799.59		
3 4 -651.09 1644.43 13.34 771.00 56.92 8785.57		
Combination No. 2380		
Group Id: SER GP 1 Name: SERVICE GROUP I		
Combination No. 2380		
Memb Node Fx kip Fy kip Fz kip Mx kft My kft Mz kft		
1 1 619.62 1727.73 7.78 1053.27 -69.80 -7864.09		

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	461
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-655.90	1652.50	13.55	1112.30	66.51	8859.85

Combination No. 2380

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2380

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.50	1744.05	7.29	1027.47	-64.60	-7753.39
3	4	-651.56	1629.43	13.17	1080.97	66.45	8848.67

Combination No. 2381

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2381

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	610.95	1730.70	7.60	607.50	-79.22	-7695.67
3	4	-647.02	1622.70	12.85	693.10	51.83	8775.07

Combination No. 2382

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2382

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.32	1769.73	2.62	533.26	-43.80	-7668.78
3	4	-645.96	1610.20	8.23	605.71	29.40	8806.42

Combination No. 2383

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2383

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.21	1711.32	2.44	712.98	-35.43	-7465.35
3	4	-628.85	1587.89	8.41	767.04	37.77	8516.08

Combination No. 2384


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2384

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.29	1612.90	2.61	534.06	-43.07	-8045.13
3	4	-645.93	1767.03	8.25	604.91	30.12	8429.17

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	462
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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		Date	

Combination No. 2385

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2385

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	595.21	1590.58	2.79	695.39	-51.44	-7755.31
3	4	-628.85	1708.63	8.07	784.63	21.75	8226.01

Combination No. 2386

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2386

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.04	1662.92	7.52	1015.70	-75.32	-8069.55
3	4	-659.10	1710.56	12.94	1092.74	55.73	8750.01

Combination No. 2387

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2387

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.06	1654.29	7.38	618.59	-69.12	-7993.99
3	4	-654.12	1699.11	13.07	682.01	61.93	8681.90

Combination No. 2388

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2388

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.43	1694.35	7.39	742.59	-69.43	-8305.18
3	4	-675.49	1741.04	13.07	806.68	61.62	8987.52

Combination No. 2389

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2389


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	570.03	1552.74	-4.28	239.31	-7.76	-7359.07
3	4	-600.15	1638.45	1.18	326.64	-18.72	7844.57

Combination No. 2390

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 463	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	579.03	1563.36	-4.42	143.96	-1.42	-7518.37
3	4	-609.15	1676.26	1.32	217.36	-12.38	7945.17

Combination No. 2391
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.17	1742.46	7.43	740.56	-71.27	-8167.57
3	4	-675.23	1692.93	13.03	808.71	59.78	9117.72

Combination No. 2392
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.81	1637.78	7.53	956.09	-76.01	-8146.47
3	4	-657.87	1769.64	12.92	1034.65	55.04	8637.60

Combination No. 2393
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.37	1710.26	7.51	674.16	-75.13	-8060.31
3	4	-665.43	1684.14	12.94	750.77	55.92	8942.11

Combination No. 2394
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.78	1811.78	7.43	843.92	-70.99	-8047.56
3	4	-674.84	1663.53	13.03	911.44	60.06	9226.28

Combination No. 2395
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.59	1762.71	7.52	673.90	-75.37	-7780.93

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 464	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-654.65	1631.69	12.94	751.04	55.68	8910.21

Combination No. 2396
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	639.67	1688.04	7.45	901.65	-72.00	-8334.60
3	4	-675.73	1753.33	13.01	971.40	59.05	8965.08

Combination No. 2397
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.50	1684.91	7.53	956.23	-75.89	-8176.84
3	4	-667.57	1722.51	12.93	1034.51	55.16	8887.13

Combination No. 2398
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	579.11	1681.56	-4.41	143.36	-1.97	-7262.09
3	4	-609.23	1558.06	1.30	217.96	-12.93	8203.66

Combination No. 2399
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	568.33	1636.38	-4.29	49.62	-7.41	-7141.72
3	4	-598.45	1545.37	1.19	136.17	-18.37	8012.88

Combination No. 2400
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.73	1739.42	7.39	904.59	-69.33	-8208.61
3	4	-676.79	1701.95	13.07	968.47	61.72	9121.51

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	465
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2401
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.68	1708.86	7.39	1022.34	-69.28	-7938.59
3	4	-658.74	1664.62	13.07	1086.10	61.77	8870.71

Combination No. 2402
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.65	1697.56	7.51	612.34	-74.82	-7869.46
3	4	-653.71	1655.88	12.95	688.27	56.23	8794.45

Combination No. 2403
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	612.14	1769.12	2.59	567.05	-42.22	-7666.62
3	4	-645.78	1609.97	8.27	636.04	30.97	8803.29

Combination No. 2404
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.35	1766.79	7.45	801.64	-72.26	-8291.48
3	4	-684.41	1709.60	13.00	871.96	58.79	9258.73


Combination No. 2405
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.33	1668.86	6.78	784.53	-71.19	-8571.65
3	4	-668.66	1807.53	12.94	861.63	57.04	8715.77

Combination No. 2406
 Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	466
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.26	1657.11	7.14	622.35	-70.53	-8075.01
3	4	-642.81	1702.65	13.44	692.11	62.96	8463.02

Combination No. 2407
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.01	1665.66	7.31	1026.00	-77.98	-8147.39
3	4	-647.55	1714.57	13.28	1112.13	55.51	8527.64

Combination No. 2408
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.16	1764.11	6.78	784.05	-71.63	-8486.04
3	4	-679.49	1712.29	12.93	862.12	56.60	9113.96

Combination No. 2409
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.85	1634.39	6.95	993.31	-79.06	-8190.68
3	4	-645.17	1739.08	12.77	1087.70	49.17	8418.73

Combination No. 2410
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.23	1627.68	6.63	605.45	-64.45	-8115.77
3	4	-640.56	1725.73	13.08	667.73	63.79	8360.48

Combination No. 2411
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.19	1711.17	6.78	784.32	-71.39	-8617.85

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-678.51	1765.22	12.93	861.85	56.84	8953.98

Combination No. 2412

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.38	1816.56	6.79	783.79	-71.88	-8206.65
3	4	-668.70	1659.83	12.92	862.38	56.36	9082.05

Combination No. 2413

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.16	1719.39	7.32	613.27	-78.80	-7955.52
3	4	-644.70	1640.37	13.26	701.19	54.69	8637.23

Combination No. 2414

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.97	1731.79	7.12	1035.65	-69.20	-8020.03
3	4	-649.51	1648.44	13.47	1102.49	64.29	8711.52

Combination No. 2415

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.86	1748.10	6.62	1009.85	-64.01	-7909.33
3	4	-645.18	1625.37	13.09	1071.16	64.23	8700.34


Combination No. 2416

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.31	1734.76	6.94	589.88	-78.62	-7851.60
3	4	-640.63	1618.64	12.78	683.30	49.61	8626.74

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Date	

Combination No. 2417

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.67	1773.79	1.96	515.64	-43.20	-7824.71
3	4	-639.57	1606.14	8.16	595.90	27.17	8658.08

Combination No. 2418

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.56	1715.38	1.78	695.35	-34.83	-7621.29
3	4	-622.47	1583.83	8.34	757.23	35.54	8367.74

Combination No. 2419

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.64	1616.96	1.94	516.43	-42.48	-8201.07
3	4	-639.54	1762.97	8.17	595.11	27.90	8280.83

Combination No. 2420

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	602.56	1594.64	2.12	677.77	-50.85	-7911.24
3	4	-622.46	1704.57	7.99	774.82	19.53	8077.67

Combination No. 2421

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.39	1666.97	6.85	998.07	-74.73	-8225.49
3	4	-652.71	1706.50	12.86	1082.94	53.50	8601.68

Combination No. 2422

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 469	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.41	1658.35	6.72	600.97	-68.53	-8149.93
3	4	-647.74	1695.06	13.00	672.21	59.71	8533.56

Combination No. 2423

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2423

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.78	1658.41	-4.95	724.96	-68.83	-8461.12
3	4	-669.10	1736.99	12.99	796.88	59.40	8839.19

Combination No. 2424

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2424

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.38	1556.80	-4.95	221.69	-7.16	-7515.01
3	4	-593.76	1634.39	1.10	316.83	-20.94	7696.24

Combination No. 2425

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2425

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.38	1567.42	-5.09	126.33	-0.82	-7674.31
3	4	-602.76	1672.20	1.24	207.56	-14.60	7796.84

Combination No. 2426

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2426

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.52	1746.52	6.76	722.93	-70.68	-8323.50
3	4	-668.85	1688.88	12.95	798.90	57.55	8969.39

Combination No. 2427


Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2427

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.16	1641.84	6.87	938.47	-75.42	-8302.41

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 470	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-651.48	1765.58	12.85	1024.85	52.82	8489.26

Combination No. 2428

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2428

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.72	1714.31	6.85	656.54	-74.53	-8216.25
3	4	-659.05	1680.09	12.87	740.97	53.70	8793.77

Combination No. 2429

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2429

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.13	1815.84	6.76	826.29	-70.40	-8203.50
3	4	-668.45	1659.47	12.96	901.64	57.84	9077.95

Combination No. 2430

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2430

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.94	1766.77	6.85	656.27	-74.77	-7936.87
3	4	-648.26	1627.63	12.86	741.23	53.46	8761.87

Combination No. 2431

Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2431

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.02	1692.10	6.78	884.03	-71.41	-8490.54
3	4	-669.35	1749.27	12.93	961.59	56.83	8816.74

Combination No. 2432


Group Id: SER GP 1 Name: SERVICE GROUP 1

Combination No. 2432

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.86	1688.97	6.86	938.61	-75.29	-8332.77
3	4	-661.18	1718.45	12.85	1024.71	52.94	8738.79

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 471	
		Job # 59219	
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		Date	

Combination No. 2433
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.46	1685.62	5.08	125.73	-1.37	-7418.03
3	4	-602.84	1554.00	1.23	208.16	-15.15	8055.33

Combination No. 2434
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.68	1640.44	4.96	32.00	6.81	-7297.66
3	4	-592.06	1541.31	1.11	126.37	-20.59	7864.55

Combination No. 2435
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.08	1743.48	6.72	886.96	-68.73	-8364.55
3	4	-670.40	1697.89	12.99	958.66	59.50	8973.18

Combination No. 2436
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.03	1772.91	6.72	1004.71	-68.68	-8094.53
3	4	-652.36	1660.56	12.99	1076.30	59.55	8722.37


Combination No. 2437
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.00	1701.61	6.84	594.71	-74.22	-8025.40
3	4	-647.32	1651.79	12.87	678.46	54.01	8646.12

Combination No. 2438
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

Design Code: AASHTO LRFD

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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	619.49	1773.17	1.92	549.43	-41.63	-7822.56
3	4	-639.39	1605.91	8.19	626.24	28.75	8654.96

Combination No. 2439
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.70	1770.85	6.79	784.02	-71.66	-8447.42
3	4	-678.02	1705.55	12.93	862.15	56.57	9110.39

Combination No. 2440
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.84	1671.13	6.39	764.32	-67.79	-8664.18
3	4	-665.18	1805.26	12.26	837.53	54.46	8631.39

Combination No. 2441
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.76	1659.38	6.76	602.14	-67.13	-8167.54
3	4	-639.33	1700.38	12.76	668.01	60.39	8378.64

Combination No. 2442
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.51	1667.93	6.92	1005.79	-74.58	-8239.92
3	4	-644.08	1772.30	12.60	1088.03	52.94	8443.26

Combination No. 2443
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.66	1766.37	6.40	763.84	-68.23	-8578.56

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-676.01	1710.02	12.25	838.01	54.02	9029.58

Combination No. 2444

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.35	1636.66	6.56	973.10	-75.66	-8283.21
3	4	-641.69	1736.81	12.09	1063.59	46.59	8334.35

Combination No. 2445

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.73	1629.94	6.24	585.24	-61.04	-8208.30
3	4	-637.08	1723.46	12.40	643.62	61.21	8276.10

Combination No. 2446

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.69	1713.44	6.39	764.10	-67.99	-8710.38
3	4	-675.03	1762.95	12.25	837.74	54.27	8869.60

Combination No. 2447

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.88	1818.83	6.40	763.57	-68.47	-8299.18
3	4	-665.23	1657.56	12.24	838.28	53.78	8997.67


Combination No. 2448

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.66	1721.66	6.93	593.06	-75.40	-8048.05
3	4	-641.23	1638.10	12.58	677.09	52.12	8552.85

Units: US (English)

Design Code: AASHTO LRFD

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		Date	

Combination No. 2449

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.47	1734.06	6.73	1015.43	-65.80	-8112.56
3	4	-646.03	1646.17	12.79	1078.39	61.72	8627.14

Combination No. 2450

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.36	1750.37	6.23	989.63	-60.61	-8001.86
3	4	-641.70	1623.10	12.41	1047.05	61.65	8615.96

Combination No. 2451

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.81	1737.03	6.55	569.66	-75.22	-7944.13
3	4	-637.15	1616.38	12.10	659.19	47.03	8542.36

Combination No. 2452

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.17	1776.05	1.57	495.42	-39.80	-7917.24
3	4	-636.10	1603.87	7.48	571.79	24.60	8573.70

Combination No. 2453

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	607.07	1717.65	1.39	675.14	-31.43	-7713.82
3	4	-618.99	1581.56	7.66	733.13	32.97	8283.36

Combination No. 2454

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	475
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	624.14	1619.22	1.55	496.22	-39.08	-8293.60
3	4	-636.07	1760.70	7.49	571.00	25.32	8196.46

Combination No. 2455
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	607.06	1596.91	1.73	657.55	-47.44	-8003.77
3	4	-618.99	1702.30	7.31	750.72	16.95	7993.29

Combination No. 2456
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	634.89	1669.24	6.46	977.86	-71.33	-8318.02
3	4	-649.24	1704.23	12.18	1058.83	50.93	8517.30

Combination No. 2457
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	629.91	1660.62	6.33	580.75	-65.13	-8242.46
3	4	-644.26	1692.79	12.32	648.10	57.13	8449.18

Combination No. 2458
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	651.28	1700.68	6.34	704.75	-65.43	-8553.65
3	4	-665.63	1734.72	12.31	772.77	56.82	8754.81

Combination No. 2459
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	581.88	1559.07	5.34	201.47	-3.76	-7607.53

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-590.28	1632.12	0.42	292.73	-23.52	7611.86

Combination No. 2460
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	590.89	1569.69	-5.48	106.12	2.58	-7766.83
3	4	-599.29	1669.93	0.56	183.45	-17.18	7712.46

Combination No. 2461
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	651.03	1748.79	6.38	702.72	-67.28	-8416.03
3	4	-665.37	1686.61	12.27	774.80	54.98	8885.01

Combination No. 2462
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	633.66	1644.11	6.48	918.26	-72.02	-8394.94
3	4	-648.01	1763.31	12.17	1000.74	50.24	8404.88

Combination No. 2463
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	641.23	1716.58	6.46	636.33	-71.13	-8308.78
3	4	-655.57	1677.82	12.19	716.86	51.13	8709.40

Combination No. 2464
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	650.63	1818.11	6.37	806.08	-66.99	-8296.03
3	4	-664.97	1657.20	12.28	877.53	55.26	8993.57

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp Combination No. 2465 Group Id: SER GP 1 Name: SERVICE GROUP I		Date	9/10/14
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		Phone: 1-800-778-4277	

Combination No. 2465						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	630.44	1769.04	6.46	636.06	-71.37
3	4	-644.79	1625.36	12.18	717.13	8029.39

Combination No. 2466						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	651.52	1694.37	6.39	863.82	-68.00
3	4	-665.87	1747.00	12.25	937.49	8583.06

Combination No. 2467						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	651.52	1694.37	6.39	863.82	-68.00
3	4	-665.87	1747.00	12.25	937.49	8583.06

Combination No. 2468						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	643.36	1691.24	6.48	918.40	-71.89
3	4	-657.70	1716.18	12.17	1000.60	8425.30

Combination No. 2469						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	590.96	1687.89	-5.46	105.52	2.03
3	4	-599.37	1551.73	0.55	184.05	-17.73

Combination No. 2470						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	580.18	1642.70	-5.35	117.8	-3.41
3	4	-588.59	1539.04	0.43	102.26	-23.17

Combination No. 2471						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	652.58	1745.75	6.33	866.75	-65.33
3	4	-666.92	1695.62	12.31	934.56	8888.80

Combination No. 2472						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	629.50	1703.88	6.45	574.50	-70.82
3	4	-643.84	1649.52	12.19	654.36	8561.74


Combination No. 2473						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	623.99	1775.44	1.54	529.22	-38.23
3	4	-635.91	1603.64	7.51	602.13	8570.58

Combination No. 2474						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	660.20	1773.11	6.40	763.80	-68.26
3	4	-674.55	1703.28	12.25	838.04	9026.01

Combination No. 2475						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	652.81	1684.72	27.88	-1371.07	161.37
						-8660.49

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
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		Designed CAM	
File Name: Pier 12 Straddle.rcp Combination No. 2471 Group Id: SER GP 1 Name: SERVICE GROUP I		Date	9/10/14
		Checked	
		Phone: 1-800-778-4277	

Combination No. 2471						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	652.58	1745.75	6.33	866.75	-65.33
3	4	-666.92	1695.62	12.31	934.56	8888.80

Combination No. 2472						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	634.54	1715.18	6.33	984.50	-65.28
3	4	-648.88	1658.29	12.31	1052.19	8637.99

Combination No. 2473						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	629.50	1703.88	6.45	574.50	-70.82
3	4	-643.84	1649.52	12.19	654.36	8561.74


Combination No. 2474						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	623.99	1775.44	1.54	529.22	-38.23
3	4	-635.91	1603.64	7.51	602.13	8570.58

Combination No. 2475						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	660.20	1773.11	6.40	763.80	-68.26
3	4	-674.55	1703.28	12.25	838.04	9026.01

Combination No. 2476						
Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	Mz kft
1	1	652.81	1684.72	27.88	-1371.07	161.37
						-8660.49

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 479	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-680.31	1839.96	-26.39	-1350.12	-164.89	8897.96

Combination No. 2476

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.95	1673.13	-28.39	-1582.37	167.25	-8168.67
3	4	-654.23	1734.91	-26.76	-1568.47	-164.27	8640.37

Combination No. 2477

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.70	1681.68	-28.23	-1178.72	159.80	-8241.04
3	4	-658.98	1746.83	-26.92	-1148.45	-171.72	8704.99

Combination No. 2478

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.63	1779.97	-27.87	-1371.55	160.93	-8574.88
3	4	-691.14	1744.71	-26.40	-1349.64	-165.33	9296.14

Combination No. 2479

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.32	1650.25	-27.71	-1162.29	153.50	-8279.53
3	4	-656.82	1771.51	-26.56	-1124.06	-172.76	8600.92


Combination No. 2480

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.70	1643.54	-28.02	-1550.16	168.12	-8204.62
3	4	-652.21	1758.16	-26.25	-1544.03	-158.14	8542.67

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 480	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Combination No. 2481

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.66	1727.03	-27.87	-1371.29	161.17	-8706.69
3	4	-690.16	1797.64	-26.40	-1349.91	-165.09	9136.17

Combination No. 2482

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.85	1832.42	-27.86	-1371.82	160.69	-8295.49
3	4	-680.35	1692.26	-26.41	-1349.38	-165.57	9264.24

Combination No. 2483

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.85	1735.42	-28.21	-1591.46	158.98	-8049.18
3	4	-656.13	1672.63	-26.93	-1559.39	-172.54	8814.59

Combination No. 2484

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.66	1747.81	-28.42	-1169.08	168.58	-8113.69
3	4	-660.94	1680.70	-26.73	-1158.09	-162.94	8888.87

Combination No. 2485

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.33	1763.96	-28.03	-1145.76	168.56	-7998.18
3	4	-656.83	1657.80	-26.24	-1140.60	-157.70	8882.52

Combination No. 2486

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.73	1750.62	-27.72	-1565.73	153.94	-7940.45
3	4	-652.28	1651.07	-26.55	-1528.46	-172.32	8808.92

Combination No. 2487

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.73	1750.62	-23.03	-1099.66	131.97	-7860.60
3	4	-653.65	1640.36	-21.64	-1078.79	-136.43	8893.43

Combination No. 2488

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.62	1729.45	-23.21	-919.95	140.34	-7657.18
3	4	-636.54	1618.04	-21.46	-917.46	-128.06	8603.09

Combination No. 2489

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.70	1631.03	-23.05	-1098.87	132.69	-8236.96
3	4	-653.62	1797.19	-21.63	-1079.59	-135.71	8516.18

Combination No. 2490

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	606.62	1608.71	-22.86	-937.53	124.32	-7947.13
3	4	-636.54	1738.78	-21.81	-899.87	-144.08	8313.02


Combination No. 2491

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.86	1682.83	-27.80	-1157.53	157.83	-8314.33

Units: US (English)

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		Job # 59219	
		Designed CAM	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-664.36	1738.93	-26.47	-1128.82	-168.42	8783.86

Combination No. 2492

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.88	1674.21	-27.94	-1554.64	164.04	-8238.77
3	4	-659.38	1727.48	-26.34	-1539.55	-162.22	8715.75

Combination No. 2493

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.25	1714.27	-27.93	-1430.64	163.73	-8549.96
3	4	-680.75	1769.41	-26.34	-1414.88	-162.53	9021.38

Combination No. 2494

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	577.93	1568.27	-15.88	-607.71	84.52	-7473.87
3	4	-611.37	1671.20	-14.83	-576.67	-99.72	8008.91

Combination No. 2495

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	586.93	1578.89	-16.01	-703.07	90.86	-7633.17
3	4	-620.37	1709.01	-14.70	-685.95	-93.38	8109.51


Combination No. 2496

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.00	1762.38	-27.89	-1432.67	161.88	-8412.35
3	4	-680.50	1721.30	-26.38	-1412.86	-164.37	9151.57

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	483
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Combination No. 2497
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.63	1657.70	-27.79	-1217.14	157.15	-8391.25
3	4	-663.13	1798.01	-26.48	-1186.91	-169.11	8671.45

Combination No. 2498
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	643.20	1730.18	-27.81	-1499.07	158.03	-8305.10
3	4	-670.70	1712.51	-26.47	-1470.79	-168.23	8915.96

Combination No. 2499
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.60	1831.70	-27.90	-1329.31	162.17	-8292.34
3	4	-680.10	1691.90	-26.38	-1310.12	-164.09	9260.13

Combination No. 2500
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.41	1782.63	-27.80	-1499.33	157.79	-8025.71
3	4	-659.91	1660.06	-26.47	-1470.52	-168.47	8944.06


Combination No. 2501
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	653.49	1707.96	-27.87	-1271.58	161.16	-8579.38
3	4	-680.99	1781.69	-26.40	-1250.16	-165.10	8998.93

Combination No. 2502
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	484
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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.33	1704.83	-27.79	-1217.00	157.27	-8421.62
3	4	-672.83	1750.88	-26.48	-1187.05	-168.99	8920.98

Combination No. 2503
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.01	1697.10	-16.00	-703.67	90.32	-7376.90
3	4	-620.45	1590.81	-14.71	-685.34	-93.93	8368.00

Combination No. 2504
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	576.23	1651.91	-15.88	-797.40	84.88	-7256.53
3	4	-609.67	1578.12	-14.83	-767.14	-99.37	8177.22

Combination No. 2505
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.55	1759.34	-27.93	-1268.64	163.83	-8453.39
3	4	-682.05	1730.31	-26.34	-1253.10	-162.43	9155.36

Combination No. 2506
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.51	1728.77	-27.93	-1150.89	163.88	-8183.37
3	4	-664.01	1692.99	-26.34	-1135.46	-162.38	8904.56

Combination No. 2507
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.47	1717.47	-27.81	-1560.89	158.34	-8114.24

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
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		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-658.97	1684.22	-26.46	-1533.30	-167.92	8828.30

Combination No. 2508

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.55	1787.25	-23.06	-1065.87	133.54	-7858.45
3	4	-653.47	1640.12	-21.61	-1048.46	-134.86	8890.30

Combination No. 2509

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.17	1786.71	-27.87	-1371.59	160.90	-8536.26
3	4	-689.67	1737.97	-26.40	-1349.61	-165.36	9292.58

Combination No. 2510

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.79	1670.03	-31.12	-1485.84	172.71	-8548.13
3	4	-668.33	1806.36	-27.99	-1442.91	-180.75	8724.13

Combination No. 2511

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.94	1658.45	-31.63	-1697.15	178.59	-8056.30
3	4	-642.26	1701.32	-28.35	-1661.25	-180.12	8466.54


Combination No. 2512

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.68	1666.99	-31.47	-1293.49	171.14	-8128.68
3	4	-647.01	1713.23	-28.51	-1241.23	-187.58	8531.16

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
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		Checked	
		Date	

Combination No. 2513

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.62	1765.28	-31.11	-1486.32	172.27	-8462.52
3	4	-679.16	1711.11	-28.00	-1442.42	-181.19	9122.31

Combination No. 2514

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.30	1635.57	-30.95	-1277.07	164.84	-8167.16
3	4	-644.85	1737.91	-28.16	-1216.84	-188.62	8427.09

Combination No. 2515

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.69	1628.85	-31.27	-1664.93	179.46	-8092.25
3	4	-640.23	1724.56	-27.84	-1636.82	-174.00	8368.84

Combination No. 2516

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.64	1712.35	-31.12	-1486.06	172.52	-8594.33
3	4	-678.19	1764.05	-27.99	-1442.69	-180.94	8962.33

Combination No. 2517

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.83	1817.73	-31.11	-1486.59	172.03	-8183.13
3	4	-668.38	1658.66	-28.00	-1442.16	-181.43	9090.41

Combination No. 2518

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.83	1720.73	-31.45	-1706.23	170.32	-7936.82
3	4	-644.16	1639.04	-28.53	-1652.17	-188.39	8640.76

Combination No. 2519
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.64	1733.12	-31.66	-1283.85	179.92	-8001.32
3	4	-648.97	1647.10	-28.32	-1250.87	-178.80	8715.04

Combination No. 2520
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.31	1749.28	-31.28	-1260.53	179.90	-7885.81
3	4	-644.85	1624.20	-27.83	-1233.38	-173.56	8708.69

Combination No. 2521
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	616.76	1735.93	-30.96	-1680.50	165.28	-7828.08
3	4	-640.30	1617.47	-28.15	-1621.24	-188.18	8635.09

Combination No. 2522
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.71	1773.17	-26.27	-1214.43	143.31	-7748.24
3	4	-641.68	1606.76	-23.24	-1171.57	-152.29	8719.60

Combination No. 2523
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.61	1714.76	-26.45	-1034.72	151.68	-7544.82

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	488
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-624.57	1584.45	-23.06	-1010.24	-143.92	8429.26

Combination No. 2524
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.68	1616.34	-26.29	-1213.64	144.04	-8124.59
3	4	-641.65	1763.99	-23.22	-1172.37	-151.57	8342.35

Combination No. 2525
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	598.60	1594.02	-26.11	-1052.31	135.67	-7834.77
3	4	-624.57	1705.18	-23.40	-992.65	-159.93	8139.19

Combination No. 2526
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.84	1668.15	-31.05	-1272.31	169.18	-8201.97
3	4	-652.39	1705.33	-28.06	-1221.60	-184.28	8610.03

Combination No. 2527
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.87	1659.52	-31.18	-1669.41	175.38	-8126.41
3	4	-647.41	1693.88	-27.93	-1632.33	-178.08	8541.92

Combination No. 2528
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.24	1699.58	-31.17	-1545.42	175.07	-8437.60
3	4	-668.78	1735.81	-27.94	-1507.66	-178.39	8847.54

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	489
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2529

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.91	1553.58	-19.12	-722.49	95.87	-7361.51
3	4	-599.40	1637.60	-16.43	-669.45	-115.58	7835.08

Combination No. 2530

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.91	1564.21	-19.26	-817.84	102.21	-7520.81
3	4	-608.40	1675.41	-16.29	-778.73	-109.24	7935.68

Combination No. 2531

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.98	1747.69	-31.13	-1547.44	173.23	-8299.98
3	4	-668.52	1687.70	-27.98	-1505.64	-180.23	8977.74

Combination No. 2532

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.61	1643.01	-31.03	-1331.91	168.49	-8278.89
3	4	-651.16	1764.41	-28.08	-1279.70	-184.97	8497.62

Combination No. 2533

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.18	1715.49	-31.05	-1613.84	169.38	-8192.73
3	4	-658.72	1678.91	-28.06	-1563.57	-184.08	8802.13


Combination No. 2534

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	635.18	1715.49	-31.05	-1613.84	169.38	-8192.73
3	4	-658.72	1678.91	-28.06	-1563.57	-184.08	8802.13

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	490
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2535

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.58	1817.01	-31.14	-1444.08	173.51	-8179.98
3	4	-668.13	1658.30	-27.97	-1402.90	-179.95	9086.30

Combination No. 2535

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.40	1767.94	-31.05	-1614.10	169.13	-7913.35
3	4	-647.94	1626.46	-28.06	-1563.31	-184.33	8770.23

Combination No. 2536

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.48	1693.27	-31.12	-1386.35	172.50	-8467.02
3	4	-669.02	1748.10	-27.99	-1342.95	-180.96	8825.10

Combination No. 2537

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.31	1690.14	-31.03	-1331.77	168.62	-8309.25
3	4	-660.86	1717.28	-28.08	-1279.83	-184.94	8747.15

Combination No. 2538

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	578.99	1682.41	-19.25	-818.44	101.66	-7264.53
3	4	-608.48	1557.21	-16.30	-778.13	-109.79	8194.17


Combination No. 2539

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	568.21	1637.22	-19.13	-912.18	96.22	-7144.16
3	4	-599.40	1637.60	-16.43	-669.45	-115.58	7835.08

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 491	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
		www.bentley.com	
File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-597.70	1544.52	-16.42	-859.92	-115.22	8003.39

Combination No. 2540

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.53	1744.65	-31.18	-1383.41	175.17	-8341.03
3	4	-670.08	1696.72	-27.93	-1345.88	-178.29	8981.53

Combination No. 2541

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.49	1714.09	-31.18	-1265.67	175.22	-8071.01
3	4	-652.03	1659.39	-27.93	-1228.24	-178.24	8730.73

Combination No. 2542

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	623.45	1702.79	-31.06	-1675.66	169.69	-8001.88
3	4	-647.00	1650.62	-28.05	-1626.08	-183.77	8654.47

Combination No. 2543

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.53	1772.56	-26.31	-1180.64	144.89	-7746.08
3	4	-641.49	1606.53	-23.20	-1141.24	-150.72	8716.47


Combination No. 2544

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.16	1772.02	-31.11	-1486.36	172.24	-8423.90
3	4	-677.70	1704.37	-28.00	-1442.39	-181.22	9118.75

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 492	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
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		Date	

Combination No. 2545

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.26	1670.95	-34.95	-1621.43	186.80	-8579.36
3	4	-667.04	1805.44	-30.08	-1555.10	-199.82	8694.26

Combination No. 2546

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.41	1659.36	-35.46	-1832.73	192.68	-8087.54
3	4	-640.96	1700.40	-30.45	-1773.44	-199.20	8436.67

Combination No. 2547

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.16	1667.91	-35.30	-1429.08	185.23	-8159.91
3	4	-645.71	1712.31	-30.61	-1353.42	-206.65	8501.29

Combination No. 2548

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.09	1766.20	-34.94	-1621.91	186.36	-8493.75
3	4	-677.86	1710.20	-30.09	-1554.62	-200.26	9092.44

Combination No. 2549

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.77	1636.48	-34.78	-1412.65	178.93	-8198.39
3	4	-643.55	1736.99	-30.25	-1329.04	-207.69	8397.22

Combination No. 2550

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 493	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
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		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.16	1629.77	-35.09	-1800.51	193.55	-8123.49
3	4	-638.93	1723.64	-29.94	-1749.01	-193.07	8338.96

Combination No. 2551
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	656.11	1713.26	-34.94	-1621.64	186.60	-8625.56
3	4	-676.89	1763.13	-30.09	-1554.88	-200.02	8932.46

Combination No. 2552
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.31	1818.65	-34.93	-1622.17	184.41	-8214.36
3	4	-667.08	1657.74	-30.10	-1554.35	-200.50	9060.54

Combination No. 2553
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.31	1721.64	-35.28	-1841.81	184.41	-7968.05
3	4	-642.86	1638.12	-30.62	-1764.36	-207.47	8610.89

Combination No. 2554
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	627.11	1734.04	-35.49	-1419.43	194.01	-8032.56
3	4	-647.67	1646.19	-30.42	-1363.07	-197.87	8685.17

Combination No. 2555
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.78	1750.19	-35.10	-1396.11	193.99	-7917.04

Units: US (English)

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Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-643.56	1623.28	-29.93	-1345.57	-192.64	8678.82

Combination No. 2556
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	618.23	1736.85	-34.79	-1816.08	179.37	-7859.32
3	4	-639.01	1616.55	-30.24	-1733.44	-207.25	8605.22

Combination No. 2557
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.18	1774.09	-30.10	-1350.02	157.40	-7779.47
3	4	-640.38	1605.84	-25.33	-1283.77	-171.37	8689.73

Combination No. 2558
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.08	1715.68	-30.28	-1170.30	165.77	-7576.05
3	4	-623.27	1583.53	-25.15	-1122.43	-163.00	8399.39

Combination No. 2559
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.15	1617.26	-30.12	-1349.22	158.12	-8155.83
3	4	-640.35	1762.67	-25.32	-1284.56	-170.64	8312.48

Combination No. 2560
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	600.07	1594.94	-29.93	-1187.89	149.76	-7866.00
3	4	-623.27	1704.27	-25.50	-1104.84	-179.01	8109.32

Units: US (English)

Design Code: AASHTO LRFD

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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Combination No. 2561
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.32	1669.06	-34.87	-1407.89	183.26	-8233.20
3	4	-651.09	1704.41	-30.16	-1333.80	-203.36	8580.16

Combination No. 2562
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.34	1660.44	-35.01	-1804.99	189.47	-8157.64
3	4	-646.11	1692.97	-30.03	-1744.53	-197.16	8512.05

Combination No. 2563
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.71	1700.50	-35.00	-1681.00	189.16	-8468.83
3	4	-667.48	1734.90	-30.03	-1619.86	-197.46	8817.67

Combination No. 2564
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	571.38	1554.50	-22.95	-858.07	109.96	-7392.74
3	4	-598.10	1636.69	-18.52	-781.64	-134.65	7805.21

Combination No. 2565
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.39	1565.12	-23.08	-953.42	116.30	-7552.04
3	4	-607.10	1674.50	-18.39	-890.92	-128.31	7905.81

Combination No. 2566
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	630.32	1669.06	-34.87	-1407.89	183.26	-8233.20
3	4	-651.09	1704.41	-30.16	-1333.80	-203.36	8580.16

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.45	1748.61	-34.96	-1683.02	187.32	-8331.22
3	4	-667.22	1686.79	-30.07	-1617.83	-199.31	8947.87

Combination No. 2567
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.09	1643.93	-34.86	-1467.49	182.58	-8310.12
3	4	-649.86	1763.49	-30.17	-1391.89	-204.05	8467.75

Combination No. 2568
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.65	1716.40	-34.88	-1749.42	183.46	-8223.96
3	4	-657.43	1678.00	-30.16	-1675.77	-203.16	8772.26

Combination No. 2569
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.05	1817.93	-34.97	-1579.67	187.60	-8211.21
3	4	-666.83	1657.38	-30.07	-1515.09	-199.03	9056.43

Combination No. 2570
 Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	625.87	1768.86	-34.87	-1749.69	183.22	-7944.58
3	4	-646.64	1625.54	-30.16	-1675.50	-203.40	8740.36

Combination No. 2571
 Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.95	1694.19	-34.94	-1521.93	186.59	-8498.25

Units: US (English)

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
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File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-667.72	1747.18	-30.09	-1455.14	-200.03	8795.23

Combination No. 2572

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.78	1691.06	-34.86	-1467.35	182.70	-8340.49
3	4	-659.56	1716.36	-30.17	-1392.03	-203.92	8717.28

Combination No. 2573

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.46	1683.32	-23.07	-954.02	115.75	-7295.77
3	4	-607.18	1556.29	-18.40	-890.32	-128.86	8164.30

Combination No. 2574

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	569.68	1638.14	-22.95	-1047.76	110.31	-7175.40
3	4	-596.40	1543.60	-18.52	-972.11	-134.30	7973.52

Combination No. 2575

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	648.00	1745.57	-35.00	-1519.00	189.26	-8372.26
3	4	-668.78	1695.80	-30.03	-1458.07	-197.36	8951.66


Combination No. 2576

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.96	1715.00	-35.00	-1401.25	189.31	-8102.24
3	4	-650.73	1658.47	-30.03	-1340.44	-197.31	8700.86

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	498
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2577

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.92	1703.70	-34.88	-1811.25	183.77	-8033.11
3	4	-645.70	1649.70	-30.15	-1738.27	-202.85	8624.60

Combination No. 2578

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	617.00	1773.48	-30.13	-1316.22	158.97	-7777.31
3	4	-640.19	1605.61	-25.30	-1253.43	-169.79	8686.60

Combination No. 2579

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	655.63	1772.94	-34.94	-1621.94	186.33	-8455.13
3	4	-676.40	1703.46	-30.09	-1554.58	-200.29	9088.88

Combination No. 2580

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.17	1673.09	-37.38	-1702.90	194.30	-8661.23
3	4	-663.79	1803.30	-31.18	-1618.60	-211.14	8617.63

Combination No. 2581

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	624.32	1661.50	-37.89	-1914.20	200.19	-8169.40
3	4	-637.71	1698.26	-31.54	-1836.94	-210.52	8360.04

Combination No. 2582

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	499
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.07	1670.05	-37.73	-1510.55	192.73	-8241.78
3	4	-642.46	1710.18	-31.70	-1416.92	-217.97	8424.67

Combination No. 2583

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2583

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.00	1768.33	-37.37	-1703.38	193.87	-8575.61
3	4	-674.62	1708.06	-31.19	-1618.11	-211.58	9015.82

Combination No. 2584

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2584

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.68	1638.62	-37.21	-1494.12	186.44	-8280.26
3	4	-640.30	1734.85	-31.35	-1392.53	-219.01	8320.59

Combination No. 2585

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2585

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.07	1631.90	-37.52	-1881.98	201.05	-8205.35
3	4	-635.69	1721.50	-31.03	-1812.51	-204.39	8262.34

Combination No. 2586

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2586

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	660.03	1715.40	-37.37	-1703.11	194.11	-8707.43
3	4	-673.64	1760.99	-31.18	-1618.38	-211.33	8855.84

Combination No. 2587


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2587

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.22	1820.79	-37.36	-1703.64	193.62	-8296.22

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	500
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-663.83	1655.60	-31.19	-1617.85	-211.82	8983.91

Combination No. 2588

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2588

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.22	1723.78	-37.71	-1923.28	191.92	-8049.92
3	4	-639.61	1635.98	-31.72	-1827.86	-218.78	8534.26

Combination No. 2589

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2589

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	631.02	1736.18	-37.92	-1500.90	201.52	-8114.42
3	4	-644.42	1644.05	-31.51	-1426.56	-209.19	8608.54

Combination No. 2590

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2590

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	626.69	1752.33	-37.53	-1477.58	201.49	-7998.91
3	4	-640.31	1621.14	-31.02	-1409.07	-203.95	8602.20

Combination No. 2591

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2591

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	622.14	1738.99	-37.22	-1897.55	186.87	-7941.18
3	4	-635.76	1614.42	-31.34	-1796.93	-218.57	8528.60

Combination No. 2592


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2592

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.09	1776.23	-32.53	-1431.49	164.91	-7861.34
3	4	-637.13	1603.70	-26.43	-1347.26	-182.68	8613.10

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	501
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2593

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.99	1717.82	-32.71	-1251.77	173.27	-7657.91
3	4	-620.02	1581.39	-26.25	-1185.93	-174.31	8322.76

Combination No. 2594

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	621.06	1619.40	-32.55	-1430.69	165.63	-8237.69
3	4	-637.10	1760.53	-26.41	-1348.06	-181.96	8235.86

Combination No. 2595

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.99	1597.08	-32.36	-1269.36	157.26	-7947.87
3	4	-620.02	1702.13	-26.59	-1168.34	-190.33	8032.69

Combination No. 2596

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.23	1671.20	-37.30	-1489.36	190.77	-8315.07
3	4	-647.84	1702.27	-31.25	-1397.29	-214.67	8503.54

Combination No. 2597

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.25	1662.58	-37.44	-1486.46	196.97	-8239.51
3	4	-642.86	1690.83	-31.12	-1808.02	-208.47	8435.42


Combination No. 2598

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	603.99	1717.82	-32.71	-1251.77	173.27	-7657.91
3	4	-620.02	1581.39	-26.25	-1185.93	-174.31	8322.76

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	502
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.62	1702.64	-37.43	-1762.47	196.67	-8550.70
3	4	-664.23	1732.76	-31.13	-1683.35	-208.78	8741.05

Combination No. 2599

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	575.29	1556.64	-25.38	-939.54	117.46	-7474.60
3	4	-594.85	1634.55	-19.62	-845.14	-145.97	7728.58

Combination No. 2600

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	584.30	1567.26	-25.51	-1034.89	123.80	-7633.91
3	4	-603.85	1672.36	-19.48	-954.42	-139.63	7829.19

Combination No. 2601

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.36	1750.75	-37.39	-1764.49	194.82	-8413.08
3	4	-663.98	1684.65	-31.17	-1681.33	-210.62	8871.25

Combination No. 2602

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.00	1646.07	-37.29	-1548.96	190.08	-8391.99
3	4	-646.61	1761.35	-31.27	-1455.39	-215.36	8391.12


Combination No. 2603

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.56	1718.54	-37.31	-1830.89	190.97	-8305.83

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 503	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-654.18	1675.86	-31.25	-1739.26	-214.47	8695.63

Combination No. 2604

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	649.97	1820.07	-37.40	-1661.14	195.10	-8293.08
3	4	-663.58	1655.24	-31.16	-1578.59	-210.34	8979.81

Combination No. 2605

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.78	1771.00	-37.30	-1831.16	190.73	-8026.44
3	4	-643.39	1623.40	-31.25	-1739.00	-214.72	8663.73

Combination No. 2606

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.86	1696.33	-37.37	-1603.40	194.09	-8580.11
3	4	-664.47	1745.04	-31.18	-1518.64	-211.35	8718.60

Combination No. 2607

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.69	1693.20	-37.29	-1548.82	190.21	-8422.35
3	4	-656.31	1714.22	-31.27	-1455.52	-215.23	8640.65


Combination No. 2608

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	584.37	1685.46	-25.50	-1035.49	123.25	-7377.63
3	4	-603.93	1554.16	-19.49	-953.82	-140.18	8087.67

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 504	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Combination No. 2609

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	573.60	1640.28	-25.38	-1129.23	117.81	-7257.26
3	4	-593.15	1541.47	-19.61	-1035.61	-145.61	7896.90

Combination No. 2610

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	651.92	1747.71	-37.43	-1600.47	196.76	-8454.13
3	4	-665.53	1693.66	-31.12	-1521.57	-208.68	8875.04

Combination No. 2611

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.87	1717.14	-37.43	-1482.72	196.82	-8184.11
3	4	-647.49	1656.33	-31.12	-1403.93	-208.63	8624.23

Combination No. 2612

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.84	1705.84	-37.31	-1892.72	191.28	-8114.98
3	4	-642.45	1647.56	-31.24	-1801.77	-214.16	8547.97

Combination No. 2613

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	620.91	1775.62	-32.56	-1397.69	166.48	-7859.18
3	4	-636.95	1603.47	-26.39	-1316.93	-181.11	8609.98

Combination No. 2614

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 505	
		Job # 59219	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
Version: 12.01.00.57			
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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	659.54	1775.07	-37.37	-1703.41	193.84	-8536.99
3	4	-673.15	1701.32	-31.19	-1618.08	-211.61	9012.25

Combination No. 2615

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	657.52	1677.15	-38.05	-1720.52	194.90	-8877.16
3	4	-657.40	1799.24	-31.25	-1628.40	-213.36	8469.30

Combination No. 2616

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	631.67	1665.56	-38.56	-1931.82	200.78	-8325.34
3	4	-631.33	1694.20	-31.62	-1846.75	-212.74	8211.71

Combination No. 2617

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	636.42	1674.11	-38.39	-1528.17	193.33	-8397.71
3	4	-636.07	1706.12	-31.78	-1426.73	-220.19	8276.33

Combination No. 2618

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	668.35	1772.39	-38.04	-1721.00	194.46	-8731.55
3	4	-668.23	1704.00	-31.26	-1627.92	-213.80	8667.48


Combination No. 2619

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	634.04	1642.68	-37.88	-1511.74	187.03	-8436.20

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 506	
		Job # 59219	
		Designed CAM	
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		Checked	
		Date	
File Name: Pier 12 Straddle.rpt			
Program: LEAP® RC-PIER® V8i (SELECTseries 5)			
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Memb	Node	Fx	Fy	Fz	Mx	My	Mz
3	4	-633.91	1730.79	-31.42	-1402.34	-221.23	8172.25

Combination No. 2620

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	629.42	1635.96	-38.19	-1899.60	201.65	-8361.29
3	4	-629.30	1717.44	-31.11	-1822.31	-206.61	8114.00

Combination No. 2621

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	667.38	1719.46	-38.04	-1720.74	194.70	-8863.36
3	4	-667.25	1756.93	-31.26	-1628.19	-213.56	8707.50

Combination No. 2622

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	657.57	1824.85	-38.03	-1721.27	194.22	-8452.16
3	4	-657.44	1651.55	-31.27	-1627.65	-214.04	8835.58

Combination No. 2623

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	633.57	1727.84	-38.38	-1940.90	192.51	-8205.85
3	4	-633.22	1631.92	-31.79	-1837.67	-221.01	8385.92


Combination No. 2624

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx	Fy	Fz	Mx	My	Mz
1	1	638.38	1740.24	-38.58	-1518.53	202.11	-8270.36
3	4	-638.03	1639.99	-31.59	-1436.37	-211.41	8460.21

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 507	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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		Checked	
		Date	

Combination No. 2625
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.05	1756.39	-38.20	-1495.21	202.09	-8154.85
3	4	-633.92	1617.08	-31.10	-1418.88	-206.17	8453.86

Combination No. 2626
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	629.50	1743.05	-37.89	-1915.18	187.47	-8097.12
3	4	-629.37	1610.36	-31.41	-1806.74	-220.79	8380.26

Combination No. 2627
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.45	1780.29	-33.20	-1449.11	165.50	-8017.27
3	4	-630.74	1599.64	-26.50	-1357.07	-184.90	8464.77

Combination No. 2628
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.34	1721.88	-33.38	-1269.40	173.87	-7813.85
3	4	-613.64	1577.33	-26.32	-1195.74	-176.53	8174.43


Combination No. 2629
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.42	1623.45	-33.21	-1448.32	166.22	-8393.63
3	4	-630.71	1756.47	-26.49	-1357.86	-184.18	8087.52

Combination No. 2630
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 508	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	611.34	1601.14	-33.03	-1286.98	157.86	-8103.80
3	4	-613.63	1698.07	-26.67	-1178.15	-192.55	7884.36

Combination No. 2631
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.58	1675.26	-37.97	-1506.98	191.36	-8471.00
3	4	-641.45	1698.21	-31.33	-1407.10	-216.90	8355.20

Combination No. 2632
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.60	1666.64	-38.10	-1904.09	197.57	-8395.44
3	4	-636.48	1686.77	-31.20	-1817.83	-210.69	8287.08

Combination No. 2633
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.97	1706.70	-38.10	-1780.09	197.26	-8706.64
3	4	-657.85	1728.70	-31.20	-1693.16	-211.00	8592.71

Combination No. 2634
[Group Id: SER GP 1 Name: SERVICE GROUP I]


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	582.65	1560.70	-26.04	-957.16	118.06	-7630.54
3	4	-588.46	1630.49	-19.69	-854.95	-148.19	7580.25

Combination No. 2635
[Group Id: SER GP 1 Name: SERVICE GROUP I]

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.65	1571.32	-26.18	-1052.51	124.40	-7789.84

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 509	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
Version: 12.01.00.57		Copyright © Bentley Systems, Inc. 2012	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
		Date 9/10/14	
		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-597.47	1668.30	-19.56	-964.23	-141.85	7680.85

Combination No. 2636

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.71	1754.81	-38.06	-1782.12	195.42	-8569.02
3	4	-657.59	1680.59	-31.24	-1691.13	-212.84	8722.91

Combination No. 2637

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.35	1650.12	-37.95	-1566.58	190.68	-8547.92
3	4	-640.23	1757.30	-31.34	-1465.19	-217.58	8242.79

Combination No. 2638

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	647.91	1722.60	-37.97	-1848.52	191.56	-8461.77
3	4	-647.79	1671.80	-31.33	-1749.07	-216.70	8547.30

Combination No. 2639

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	657.32	1824.13	-38.06	-1678.76	195.70	-8449.01
3	4	-657.19	1651.19	-31.24	-1588.40	-212.56	8831.47


Combination No. 2640

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	637.13	1775.05	-37.97	-1848.78	191.32	-8182.38
3	4	-637.01	1619.35	-31.33	-1748.80	-216.94	8515.39

Units: US (English)

Design Code: AASHTO LRFD

		Sheet # 510	
		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5)		SE Client Licenses	
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File Name: Pier 12 Straddle.rcp		Phone: 1-800-778-4277	
		Designed CAM	
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		Checked	
		Date	

Combination No. 2641

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	658.21	1700.39	-38.04	-1621.02	194.69	-8736.05
3	4	-658.09	1740.98	-31.26	-1528.44	-213.57	8570.26

Combination No. 2642

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	650.05	1697.26	-37.96	-1566.45	190.80	-8578.29
3	4	-649.92	1710.17	-31.34	-1465.33	-217.46	8492.32

Combination No. 2643

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	591.73	1689.52	-26.17	-1053.12	123.85	-7533.57
3	4	-591.54	1550.10	-19.57	-963.62	-142.40	7939.34

Combination No. 2644

Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	580.95	1644.34	-26.05	-1146.85	118.41	-7413.20
3	4	-586.76	1537.41	-19.69	-1045.41	-147.84	7748.56

Combination No. 2645

Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	659.27	1751.77	-38.10	-1618.09	197.36	-8610.06
3	4	-659.14	1689.60	-31.20	-1531.38	-210.90	8726.70

Combination No. 2646

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	511
		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.22	1721.20	-38.10	-1500.34	197.41	-8340.04
3	4	-641.10	1652.27	-31.20	-1413.74	-210.85	8475.90

Combination No. 2647

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2647

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.19	1709.90	-37.98	-1910.34	197.87	-8270.91
3	4	-636.06	1643.51	-31.32	-1811.58	-216.39	8399.64

Combination No. 2648

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2648

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	628.26	1779.67	-33.23	-1415.32	167.07	-8015.12
3	4	-630.56	1599.41	-26.47	-1326.73	-183.33	8461.64

Combination No. 2649

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2649

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	666.89	1779.13	-38.04	-1721.04	194.43	-8692.93
3	4	-666.77	1697.26	-31.26	-1627.89	-213.83	8863.92

Combination No. 2650

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2650

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.03	1679.42	-38.43	-1740.73	198.30	-8909.69
3	4	-663.92	1796.98	-31.93	-1652.51	-215.94	8384.92

Combination No. 2651


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2651

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	636.17	1667.83	-38.94	-1952.04	204.18	-8417.87

Units: US (English)

Design Code: AASHTO LRFD

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		Job #	59219
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
		Date	9/10/14
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		Date	

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-627.85	1691.93	-32.30	-1870.85	-215.31	8127.33

Combination No. 2652

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2652

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.92	1676.38	-38.78	-1548.38	196.73	-8490.24
3	4	-632.60	1703.85	-32.46	-1450.83	-222.77	8191.95

Combination No. 2653

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2653

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	672.85	1774.66	-38.42	-1741.22	197.86	-8824.08
3	4	-664.75	1701.73	-31.94	-1652.03	-216.37	8783.10

Combination No. 2654

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2654

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.54	1644.95	-38.26	-1531.96	190.43	-8528.72
3	4	-630.44	1728.53	-32.10	-1426.45	-223.80	8087.87

Combination No. 2655

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2655

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	633.92	1638.23	-38.58	-1919.82	205.05	-8453.82
3	4	-625.82	1715.17	-31.79	-1846.42	-209.19	8029.62

Combination No. 2656


Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2656

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.88	1721.73	-38.43	-1740.95	198.10	-8955.89
3	4	-663.78	1754.66	-31.94	-1652.29	-216.13	8623.12

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	513
		Job #	59219
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		Date	9/10/14
File Name: Pier 12 Straddle.rcp		Checked	
		Date	

Combination No. 2657

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2657

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.07	1827.11	-38.42	-1741.48	197.62	-8544.69
3	4	-653.97	1649.28	-31.95	-1651.76	216.62	8751.20

Combination No. 2658

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2658

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.07	1730.11	-38.77	-1961.12	195.91	-8298.38
3	4	-629.75	1629.65	-32.47	-1861.77	223.58	8301.54

Combination No. 2659

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2659

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	642.88	1742.51	-38.97	-1538.74	205.51	-8362.89
3	4	-634.56	1637.72	-32.27	-1440.48	213.98	8375.83

Combination No. 2660

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2660

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	638.55	1738.66	-38.59	-1515.42	205.49	-8247.37
3	4	-630.44	1614.82	-31.78	-1442.98	208.75	8369.48

Combination No. 2661

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2661


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	634.00	1745.32	-38.27	-1935.39	190.87	-8189.65
3	4	-625.89	1608.09	-32.09	-1830.84	223.37	8295.88

Combination No. 2662

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	514
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Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Combination No. 2663

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2663

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.95	1782.55	-33.58	-1469.33	168.90	-8109.80
3	4	-627.27	1597.38	-27.18	-1381.18	-187.48	8380.39

Combination No. 2663

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2663

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.84	1724.15	-33.77	-1289.61	177.27	-7906.38
3	4	-610.16	1575.06	-27.00	-1219.84	-179.11	8090.05

Combination No. 2664

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2664

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.92	1625.72	-33.60	-1468.53	169.63	-8486.16
3	4	-627.24	1754.21	-27.17	-1381.97	-186.75	8003.14

Combination No. 2665

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2665

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	615.84	1603.41	-33.42	-1307.20	161.26	-8196.33
3	4	-610.16	1695.80	-27.35	-1202.25	-195.12	7799.98

Combination No. 2666

Group Id: SER GP 1 Name: SERVICE GROUP I

Combination No. 2666


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	646.08	1677.53	-38.36	-1527.20	194.77	-8563.53
3	4	-637.98	1695.95	-32.01	-1431.21	-219.47	8270.82

Combination No. 2667

Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-633.00	1684.50	-31.88	-1841.93	-213.27	8202.71

Combination No. 2668
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.47	1708.97	-38.48	-1800.31	200.66	-8799.16
3	4	-654.37	1726.43	-31.88	-1717.27	-213.57	8508.33

Combination No. 2669
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	587.15	1562.97	-26.43	-972.38	121.46	-7723.07
3	4	-584.99	1628.22	-20.37	-879.05	-150.77	7495.87

Combination No. 2670
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.15	1573.59	-26.57	-1072.73	127.80	-7882.37
3	4	-593.99	1666.03	-20.24	-988.33	-144.43	7596.47

Combination No. 2671
Group Id: SER GP 1 Name: SERVICE GROUP I


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.22	1757.08	-38.44	-1802.33	198.82	-8661.55
3	4	-654.11	1678.32	-31.92	-1715.24	-215.42	8638.53

Combination No. 2672
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	644.85	1652.39	-38.34	-1586.80	194.08	-8640.45
3	4	-636.75	1755.03	-32.02	-1489.30	-220.16	8158.41

Units: US (English)

Design Code: AASHTO LRFD

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		Job # 59219	
Program: LEAP® RC-PIER® V8i (SELECTseries 5) Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 www.bentley.com Phone: 1-800-778-4277		Designed CAM	
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Combination No. 2673
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	652.42	1724.87	-38.36	-1868.73	194.96	-8554.29
3	4	-644.31	1669.53	-32.01	-1773.18	-219.27	8462.92

Combination No. 2674
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	661.82	1826.40	-38.45	-1698.98	199.10	-8541.54
3	4	-653.72	1648.92	-31.92	-1612.50	-215.14	8747.09

Combination No. 2675
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	641.63	1777.32	-38.36	-1868.99	194.72	-8274.91
3	4	-633.53	1617.08	-32.01	-1772.91	-219.51	8431.02

Combination No. 2676
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	662.71	1702.65	-38.43	-1641.24	198.09	-8828.58
3	4	-654.61	1738.71	-31.94	-1552.55	-216.15	8485.89


Combination No. 2677
Group Id: SER GP 1 Name: SERVICE GROUP I

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	654.55	1699.52	-38.35	-1586.66	194.20	-8670.82
3	4	-646.45	1707.90	-32.02	-1489.44	-220.03	8407.94

Combination No. 2678
Group Id: SER GP 1 Name: SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD



Sheet #
Job #

517
59219

Program:
Version:

LEAP® RC-PIER® V8i (SELECTseries 5)
12.01.00.57

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Designed CAM
Date
Checked
Date

File Name:

Pier 12 Straddle.rcp

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	596.23	1691.79	-26.56	-1073.33	121.25	-7626.10
3	4	-594.07	1547.83	-20.25	-987.73	-144.97	7854.96

Combination No. 2679
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	585.45	1646.60	-26.44	-1167.07	121.81	-7505.73
3	4	-583.29	1535.14	-20.37	-1069.52	-150.41	7664.18

Combination No. 2680
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	663.77	1754.03	-38.49	-1638.31	200.76	-8702.59
3	4	-655.67	1687.33	-31.88	-1555.48	-213.48	8642.32

Combination No. 2681
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	645.73	1723.47	-38.49	-1520.56	200.81	-8432.57
3	4	-637.62	1650.01	-31.88	-1437.85	-213.42	8391.52

Combination No. 2682
Group Id: SER GP 1 Name: SERVICE GROUP 1


Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	640.69	1712.17	-38.37	-1930.55	195.27	-8363.44
3	4	-632.59	1641.24	-32.00	-1835.68	-218.96	8315.26

Combination No. 2683
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	632.76	1781.94	-33.62	-1435.53	170.48	-8107.64

Units: US (English)

Design Code: AASHTO LRFD



Sheet #
Job #

518
59219

Program:
Version:

LEAP® RC-PIER® V8i (SELECTseries 5)
12.01.00.57

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Designed CAM
Date
Checked
Date

File Name:

Pier 12 Straddle.rcp

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
3	4	-627.08	1597.14	-27.15	-1350.84	-185.90	8377.26

Combination No. 2684
Group Id: SER GP 1 Name: SERVICE GROUP 1

Memb	Node	Fx kip	Fy kip	Fz kip	Mx kft	My kft	Mz kft
1	1	671.39	1781.40	-38.42	-1741.25	197.83	-8785.46
3	4	-663.29	1694.99	-31.94	-1651.99	-216.40	8779.54

Units: US (English)

Design Code: AASHTO LRFD

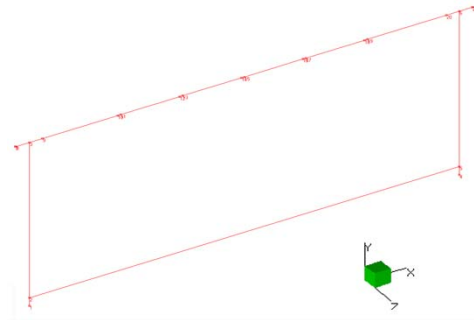
FOR:	I-4 PD&E	JOB NO.:	59219
	St. Johns River Veterans Memorial Bridge	SHEET NO.:	
MADE BY:	CAM	CHECKED BY:	
DATE:	9/20/2013	DATE:	



REVERSIBLE LANE ALTERNATIVE

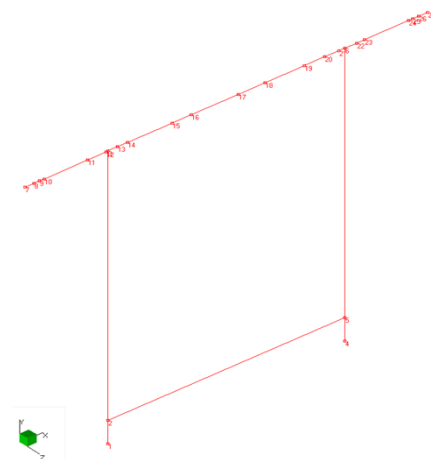
STRADDLE PIER FOOTING LOAD SUMMARY

STRENGTH ENVELOPE						
NODE	FX (kip)	FY (kip)	FZ (kip)	MX (kip-ft)	MY (kip-ft)	MZ (kip-ft)
1	438	1344	-30	-1002	120	-5153
1	877	2289	-39	-2069	234	-11570
1	860	2369	-39	-2069	234	-11140
1	521	1331	18	770	-81	-7122
1	507	1377	61	2235	-217	-6589
1	689	1905	-61	-2010	219	-8816
1	593	1602	-51	-2595	258	-7738
1	783	2143	51	2837	-256	-10080
1	794	2153	-51	-2085	269	-10330
1	582	1593	51	2326	-267	-7490
1	438	1344	-30	-1002	120	-5153
1	875	2208	-39	-2069	234	-11770
4	-877	2194	39	2300	238	11770
4	-400	1170	13	697	99	4564
4	-860	2339	39	2299	238	11160
4	-400	1170	13	697	99	4564
4	-794	2039	43	2702	296	10550
4	-582	1493	-43	-2465	-294	7691
4	-580	1563	-43	-2475	-285	7496
4	-792	2114	43	2712	286	10340
4	-689	1875	33	1885	301	8839
4	-506	1356	-33	-1663	-299	6602
4	-870	2179	25	1562	146	11810
4	-400	1170	13	697	99	4564



PIER 12 EB EXISTING FOOTING LOAD SUMMARY

STRENGTH ENVELOPE						
NODE	FX (kip)	FY (kip)	FZ (kip)	MX (kip-ft)	MY (kip-ft)	MZ (kip-ft)
1	126	-2403	-74	-3993	19	-3768
1	-126	2417	74	4247	-19	4198
1	-19	3590	-105	-6089	23	894
1	19	-3576	105	5729	-23	-831
1	-10	3253	-109	-5487	84	744
1	60	-1305	-109	-6151	82	-2283
1	-62	1279	108	6625	-78	2530
1	-11	1948	-108	-6724	77	1697
1	-10	3253	-109	-5487	84	744
1	10	-3239	109	5116	-84	-708
1	-125	2641	105	5883	-23	4427
1	58	1629	18	673	7	-808
4	125	2686	-109	-6175	35	-4414
4	-47	2071	-14	-706	-6	693
4	18	3635	109	5970	-30	-883
4	-18	-3621	-109	-5596	30	819
4	10	2029	113	6592	26	-1657
4	-10	-2014	-113	-6207	-26	1622
4	7	1426	112	6712	22	-1434
4	65	1878	-112	-6810	-18	-2776
4	64	1914	-106	-5552	93	-2741
4	-64	-1900	106	5191	-93	2521
4	-47	2071	-14	-706	-6	693
4	125	2686	-109	-6175	35	-4414



FOR:	I-4 PD&E	JOB NO.:	59219
	St. Johns River Veterans Memorial Bridge	SHEET NO.:	
MADE BY:	CAM	CHECKED BY:	BACKCHECKED BY:
DATE:	9/20/2013	DATE:	DATE:



COMBINED LOADS ENVELOPE

COLUMN	LOAD CASE	FX (kip)	FY (kip)	FZ (kip)	MX (kip-ft)	MY (kip-ft)	MZ (kip-ft)
1	1	-877	2194	39	2300	238	11770
1	2	-400	1170	13	697	99	4564
1	3	-860	2339	39	2299	238	11160
1	4	-400	1170	13	697	99	4564
1	5	-794	2039	43	2702	296	10550
1	6	-582	1493	-43	-2465	-294	7691
1	7	-580	1563	-43	-2475	-285	7496
1	8	-792	2114	43	2712	286	10340
1	9	-689	1875	33	1885	301	8839
1	10	-506	1356	-33	-1663	-299	6602
1	11	-870	2179	25	1562	146	11810
1	12	-400	1170	13	697	99	4564
2	1	126	-2403	-74	-3993	19	-3768
2	2	-126	2417	74	4247	-19	4198
2	3	-19	3590	-105	-6089	23	894
2	4	19	-3576	105	5729	-23	-831
2	5	-10	3253	-109	-5487	84	744
2	6	60	-1305	-109	-6151	82	-2283
2	7	-62	1279	108	6625	-78	2530
2	8	-11	1948	-108	-6724	77	1697
2	9	-10	3253	-109	-5487	84	744
2	10	10	-3239	109	5116	-84	-708
2	11	-125	2641	105	5883	-23	4427
2	12	58	1629	18	673	7	-808
3	1	125	2686	-109	-6175	35	-4414
3	2	-47	2071	-14	-706	-6	693
3	3	18	3635	109	5970	-30	-883
3	4	-18	-3621	-109	-5596	30	819
3	5	10	2029	113	6592	26	-1657
3	6	-10	-2014	-113	-6207	-26	1622
3	7	7	1426	112	6712	22	-1434
3	8	65	1878	-112	-6810	-18	-2776
3	9	64	1914	-106	-5552	93	-2741
3	10	-64	-1900	106	5191	-93	2521
3	11	-47	2071	-14	-706	-6	693
3	12	125	2686	-109	-6175	35	-4414

Max **-626** **9564** **47** **10862** **478** **16930** ←-Max Controls
Min **-574** **-6027** **-264** **-10822** **-476** **-658**

FOR:	I-4 PD&E	JOB NO.:	59219
	St. Johns River Veterans Memorial Bridge	SHEET NO.:	
MADE BY:	CAM	CHECKED BY:	BACKCHECKED BY:
DATE:	9/20/2013	DATE:	DATE:



L = 87.5 ft
 B = 22 ft
 H = 6 ft
 n = 14
 m = 4
 a1 = 6 ft
 a2 = 6.5 ft
 b = 6 ft

Footing length
Footing width
Footing height
Number of pile columns
Number of pile rows
Column spacing
Column spacing
Row spacing

30.9375

Footing Self-Weight (kips)

Notes:

1. This analysis assumes a rigid footing
2. Loads are based on summation of enveloped column reactions
3. Assumed straddle pier strut similarly sized to existing strut may not work for vessel collision. Separate vessel collision analysis needs to be carried out.
4. Pile reactions include self-weight of footing and strut between existing and proposed column

$$\sum(x)^2 = 133,390 \text{ ft}^2$$

$$\sum(y)^2 = 2,520 \text{ ft}^2$$

Pile X-Coordinates (ft)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	41.75	35.75	29.25	22.75	16.25	9.75	3.25	-3.25	-9.75	-16.25	-22.75	-29.25	-35.75	-41.75
2	41.75	35.75	29.25	22.75	16.25	9.75	3.25	-3.25	-9.75	-16.25	-22.75	-29.25	-35.75	-41.75
3	41.75	35.75	29.25	22.75	16.25	9.75	3.25	-3.25	-9.75	-16.25	-22.75	-29.25	-35.75	-41.75
4	41.75	35.75	29.25	22.75	16.25	9.75	3.25	-3.25	-9.75	-16.25	-22.75	-29.25	-35.75	-41.75

Pile Y-Coordinates (ft)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9
2	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	9	9	9	9	9	9	9	9	9	9	9	9	9	9

Pile Reactions (kip)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	169	168	167	166	166	165	164	163	162	162	161	160	159	159
2	195	194	193	192	192	191	190	189	189	188	187	186	185	185
3	221	220	219	218	218	217	216	215	215	214	213	212	212	211
4	247	246	245	245	244	243	242	241	241	240	239	238	238	237

Max Pile Reaction	247 kip
Min Pile Reaction	159 kip

FOR: 1-4 PD: E	JOB NO: 59219	SHEET NO: 1
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

HNTB

VESSEL COLLISION ON PIERS

- ORIGINAL DESIGN INCLUDES EQUIVALENT STATIC FORCE APPLIED AT NEAR HIGH WATER LEVEL

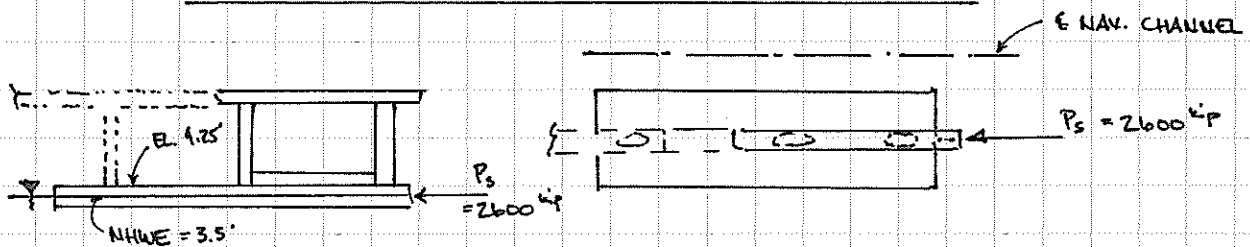
- "TRANSVERSE" = 2600 kip
 - "LONGITUDINAL" = 1300 kip
- BASED ON LRFD 3.14.14, "TRANSVERSE" MUST REFER TO ALONG/PARALLEL TO NAVIGATION CHANNEL
 "LONGITUDINAL" MUST REFER TO NORMAL TO NAVIGATION CHANNEL. ONLY APPLY 1 DIRECTION AT A TIME

- PER AASHTO LRFD 3.14.8, EQUIVALENT STATIC FORCE IS COMPUTED BY:

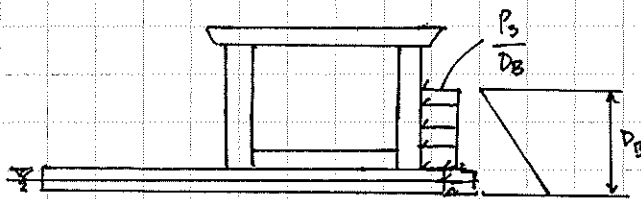
$$P_s = 8.15 \sqrt{DWT}$$

- ORIGINAL DESIGN CASES: ("SHIP" IMPACT)

- CASE 1A: "TRANSVERSE" FOR OVERALL STABILITY



- CASE 1B: "TRANSVERSE" FOR LOCAL COMPONENTS



NO INFORMATION IS GIVEN IN PLANS ON BOW DEPTH USED FOR THIS LOAD.

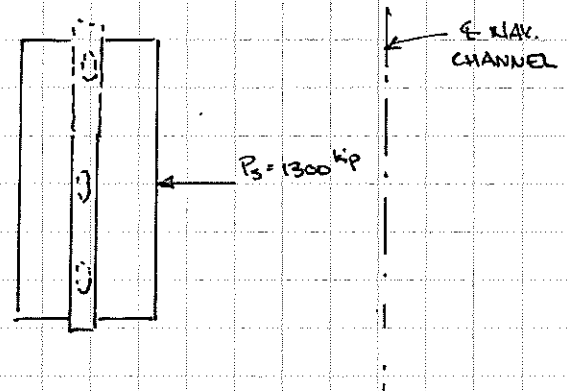
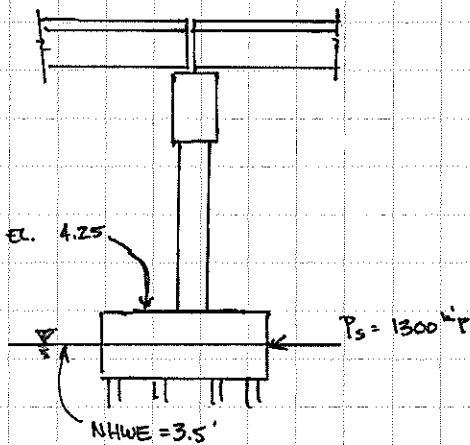
IT IS ASSUMED ONLY CASE FOR OVERALL STABILITY IS INCLUDED IN ORIGINAL DESIGN

FOR: 1-4 PD IE	JOB NO: 59219	SHEET NO: 2
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

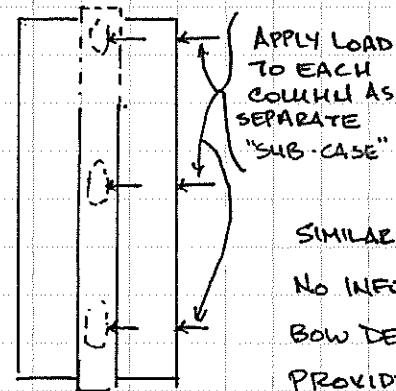
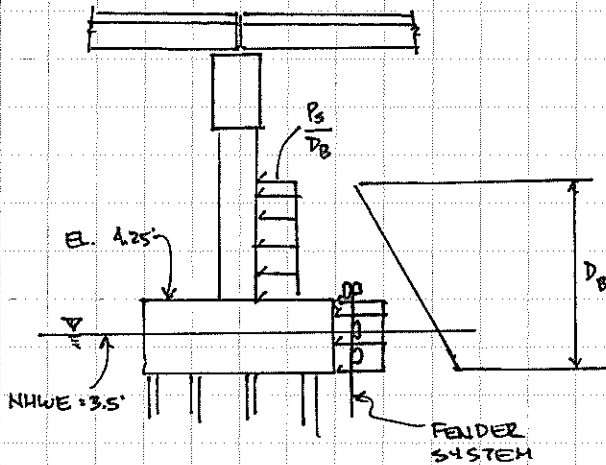
HNTB

ORIGINAL DESIGN CASES: (CONT'D)

CASE 2A: "LONGITUDINAL" FOR OVERALL STABILITY



CASE 2B: "LONGITUDINAL" FOR LOCAL COMPONENTS



SIMILAR TO CASE 1B, NO INFORMATION FOR BOW DEPTH IS PROVIDED IN ORIGINAL DOCUMENTS. IT IS ASSUMED THAT ONLY THE CASE FOR OVERALL STABILITY IS INCLUDED IN ORIGINAL DESIGN.

FOR: 1-4 TDI E	JOB NO: 59219	SHEET NO: 3
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

• APPLICATION OF VESSEL COLLISION FORCES TO PROPOSED PIERS

ALTERNATIVE 1: WIDENING

- THIS OPTION ONLY REQUIRES CHANGES ABOVE POINTS OF SHIP IMPACT. \therefore NO NEED FOR FURTHER ANALYSIS FOR THIS CONDITION IS REQUIRED. IN FACT, ADDITIONAL GRAVITY LOADS WILL TEND TO PROVIDE INCREASED STABILITY TO THE SYSTEM THEREBY MITIGATING ANTICIPATED UNDESIRABLE EFFECTS FROM VESSEL COLLISION.

ALTERNATIVE 2: REVERSIBLE LANES ON STRADDLE PIER

- SINCE THE STRADDLE PIER WILL CHANGE THE WAY THE PREVIOUSLY SEPARATED PIERS BEHAVE BY FORMING A PORTAL FRAME CONNECTING THE FOOTINGS, VESSEL COLLISION NEEDS TO BE INVESTIGATED.
- POTENTIAL FAILURE MODES TO BE INVESTIGATED:
 - SHEAR INTERFACE FAILURE BETWEEN PROPOSED COLUMN & FOOTING
 - FLEXURAL & SHEAR CAPACITY OF STRUT SPANNING BETWEEN EB & WB FOOTINGS
 - OVERALL SYSTEM STABILITY
 - LATERAL PILE LOADING
- FOR MORE COMPLETE ANALYSIS, A SHIP BOW DEPTH SHOULD BE ESTABLISHED. BASED ON GIVEN STATIC FORCE & EQUATION 8.3.14.8-1, & FIGURE 3.9-1 FROM "AASHTO GUIDE SPECIFICATIONS, ^{COMMENTARY} FOR VESSEL COLLISION DESIGN OF HIGHWAY BRIDGES", A 3,000 DWT SHIP TRAVELING AT 5.8 ft/s WILL PRODUCE AN EQUIVALENT STATIC FORCE OF 2600 kip. A 3,000 DWT SHIP HAS A BOW DEPTH OF 39.0 ft. (TABLE 3.5.2-3 OF "VESSEL COLLISION GUIDE SPECIFICATION").

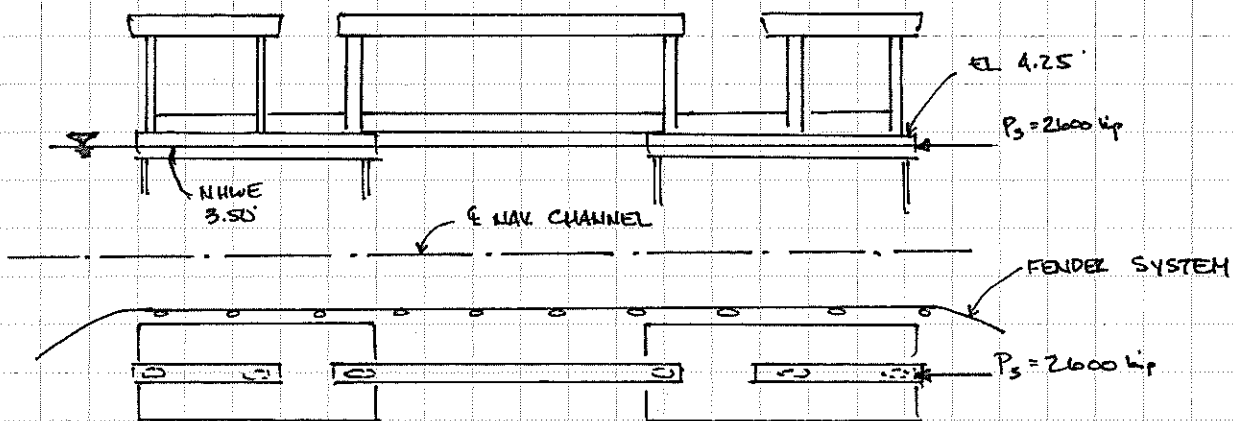
FOR: 1-4 PDIE	JOB NO: 59219	SHEET NO: 4.
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

HNTB

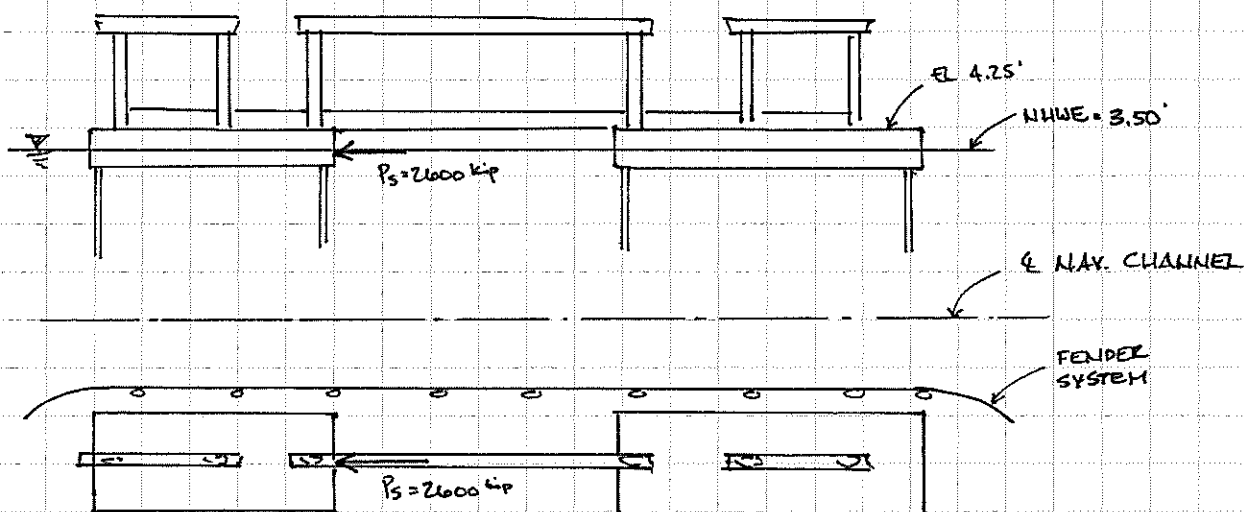
ALTERNATIVE 2: REVERSIBLE LANES ON STRADDLE PIER (CONT'D)

CASE 1A: "TRANSVERSE" FOR OVERALL STABILITY

- LOAD APPLIED TO EXISTING-PIER-COLUMN-SIDE OF FOOTING



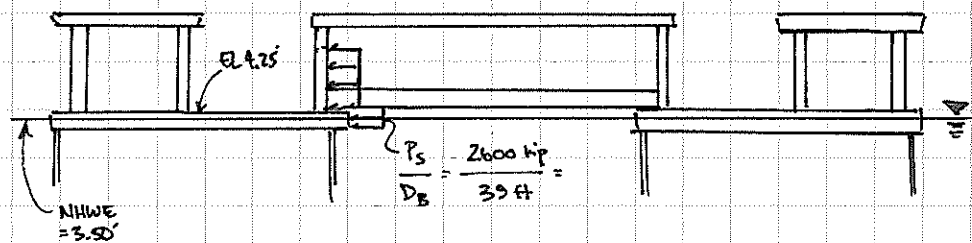
- LOAD APPLIED TO PROPOSED-COLUMN-SIDE OF FOOTING (BASED ON VESSEL APPROACH OUTSIDE OF NAVIGATION CHANNEL)



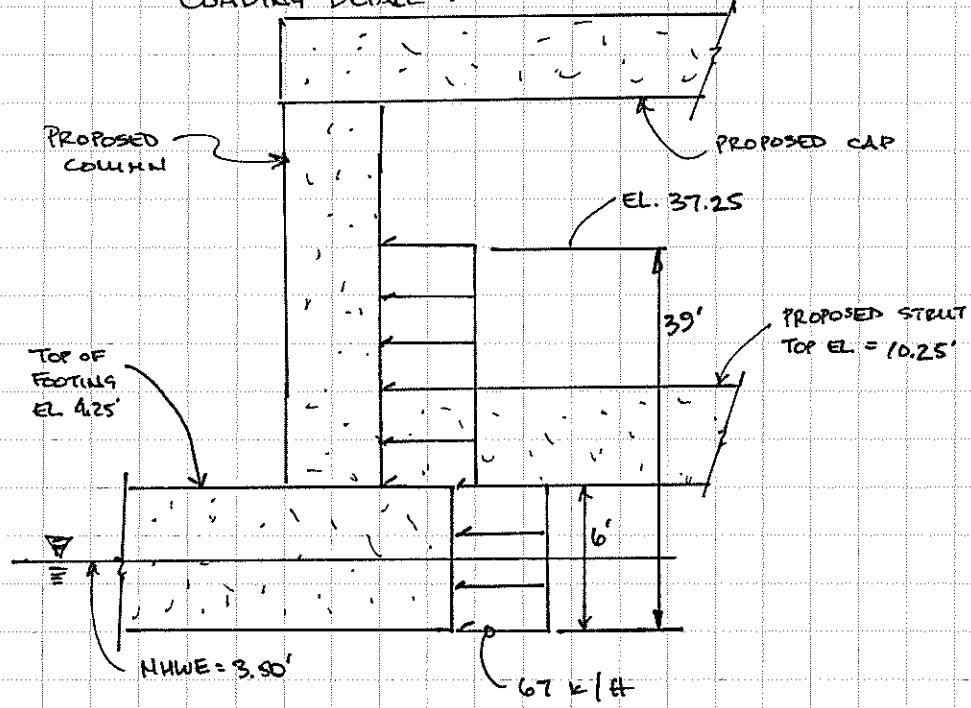
FOR: 1-4 PD IE	JOB NO: 59219	SHEET NO: 5
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY: #
DATE: 11/7/13	DATE:	DATE:

HNTB

CASE 1B: "TRANSVERSE" FOR LOCAL COMPONENTS
 ONLY APPLY THIS LOAD TO PROPOSED
~~EXISTING COLUMNS HAVE ALREADY~~ PIER COLUMNS



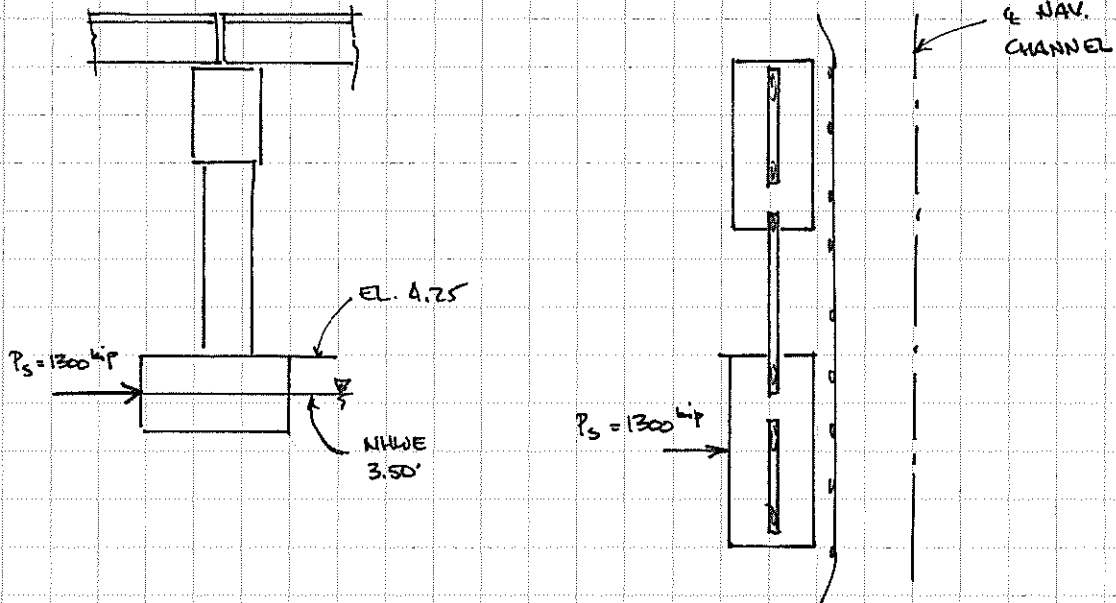
- LOADING DETAIL:



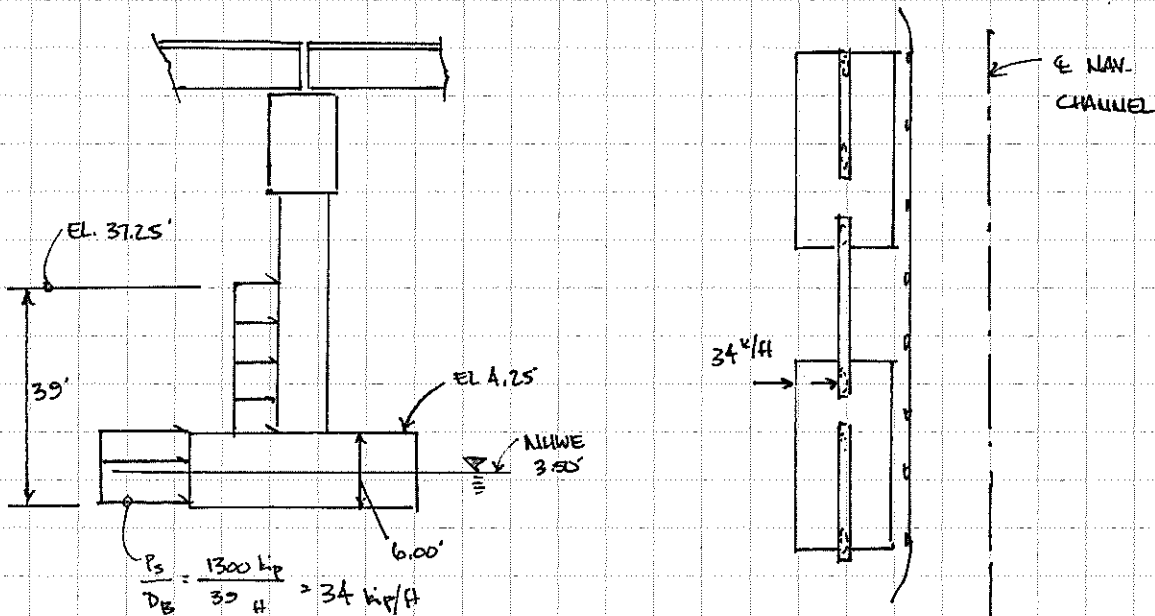
FOR: 1-4 PDIE	JOB NO: 59219	SHEET NO: 6
MADE BY: CAH	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

HNTB

CASE 2A: "LONGITUDINAL" FOR OVERALL STABILITY



CASE 2B: "LONGITUDINAL" FOR LOCAL COMPONENTS
 - APPLY TO ~~EXISTING~~ PROPOSED COMBIS

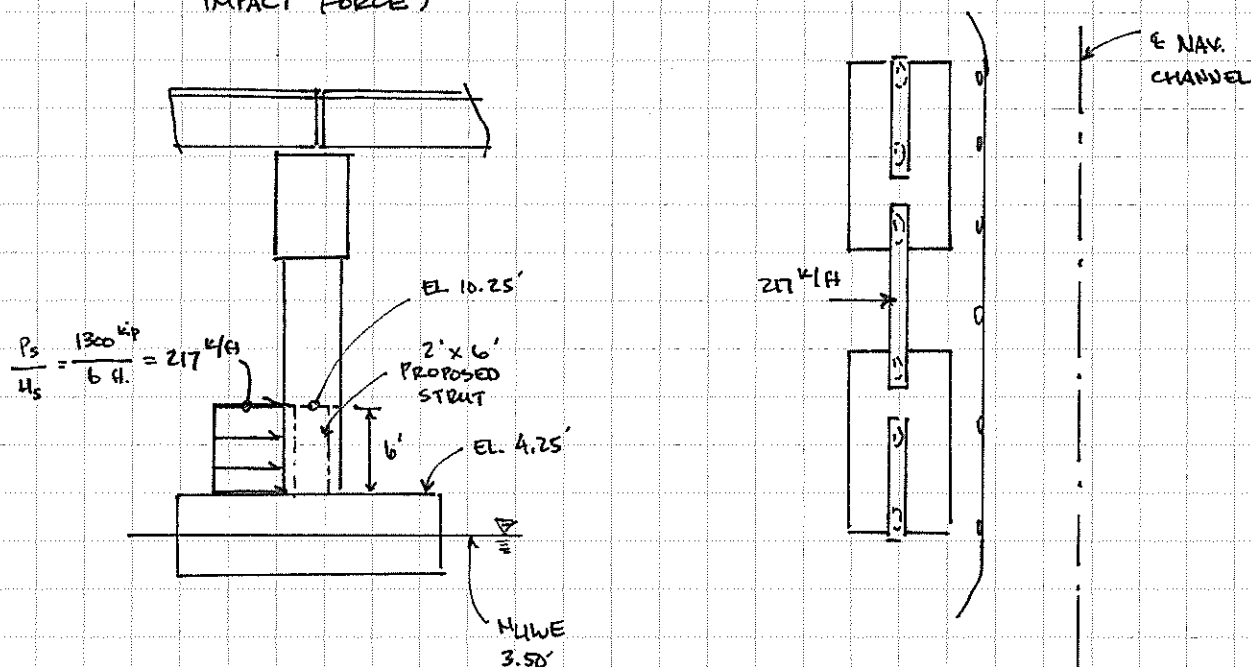


FOR: 1-4 PDSE	JOB NO: 59219	SHEET NO: 7
MADE BY: CAM	CHECKED BY:	BACKCHECKED BY:
DATE: 11/7/13	DATE:	DATE:

HNTB

CASE 2B: "LONGITUDINAL" FOR LOCAL COMPONENTS (CONT'D)

- APPLY TO PROPOSED STRUT (ASSUME STRUT TAKES ALL OF IMPACT FORCE)



SUMMARY INDEX OF VESSEL COLLISION CASES

CV 1	-	CASE 1A - APPLIED TO EXISTING COLUMN - FACE OF FOOTING
CV 2	-	CASE 1A - APPLIED TO PROPOSED COLUMN - FACE OF FOOTING
CV 3	-	CASE 1B - "TRANSVERSE" APPLIED TO PROPOSED COLUMN
CV 4	-	CASE 2A - "LONGITUDINAL" APPLIED TO FOOTING
CV 5	-	CASE 2B - "LONGITUDINAL" APPLIED TO PROPOSED STRUT ^{COLUMN}
CV 6	-	CASE 2B - "LONGITUDINAL" APPLIED TO PROPOSED STRUT

APPENDIX C-5

QUANTITIES AND COST ESTIMATE

BRIDGE QUANTITY COMPUTATIONS

I-4 OVER ST. JOHNS RIVER

Bridge NoS.

Financial Project Number:
Seminole/Volusia Counties, Florida

Prepared for:
FDOT DISTRICT 5

Engineer of Record:



HNTB Corporation

610 Crescent Executive Court, Suite 400
Lake Mary, Florida 32746
(407) 805-0355 (Phone)
(407) 805-0227 (Fax)

	SUMMARY OF QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by:	Date:
		Backchecked by:	Date:
		Item No.	Page No. <i>i</i>

JOB NAME *I-4 PD&E*

JOB NO. *HNTB 59219*

BRIDGE NO. _____

ITEM NAME *Table of Contents*

ESTIMATED QUANTITIES		
0		
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400-2-10	Concrete Class II (Approach Slabs)	<i>3</i>
400-4-5	Concrete Class IV (Substructure)	<i>4</i>
400-4-25	Concrete Class IV (Mass-Substructure)	<i>5</i>
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400-147	Composite Neoprene Pads	<i>7</i>
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415-1-5	Reinforcing Steel (Substructure)	<i>4</i>
415-1-9	Reinforcing Steel (Approach Slabs)	<i>3</i>
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466-2-13	Post Tensioning Tendons (Substructure)	<i>12</i>
521-5-4	Concrete Traffic Railing Barrier - Bridge (32" Vertical-shape)	<i>13</i>

h \\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St

Printed: #####

**SUMMARY OF QUANTITY
CALCULATIONS**

Made by:	CAM	Date:	11/7/2013
Checked by:	0	Date:	1/0/1900
Backchecked by:	0	Date:	1/0/1900
Item No.		Page No.	ii

JOB NAME I-4 PD&EJOB NO. HNTB 59219BRIDGE NO. 0ITEM NAME Summary of Bridge Pay Items

ESTIMATED QUANTITIES			
0			
ITEM No.	ITEM DESCRIPTION	UNITS	TOTAL
400-2-4	Concrete Class II (Superstructure)	CY	5,312.7
400-2-10	Concrete Class II (Approach Slabs)	CY	199.0
400-4-5	Concrete Class IV (Substructure)	CY	340.3
400-4-25	Concrete Class IV (Mass-Substructure)	CY	3,899.1
400-9	Bridge Deck Grooving and Planning (Deck Thickness >= 8.5")	SY	21,442
400-147	Composite Neoprene Pads	CF	119.6
415-1-4	Reinforcing Steel (Superstructure)	LB	1,089,109
415-1-5	Reinforcing Steel (Substructure)	LB	707,415
415-1-9	Reinforcing Steel (Approach Slabs)	LB	40,795
455-34-5	Prestressed Concrete Piling (24" Sq.)	LF	15,200
455-143-5	Test Piles - Prestressed Concrete (24" Sq.)	LF	880
458-1-11	Bridge Deck Expansion Joint (New Construction F&I) (Poured Joint with Backer Rod)	LF	1,556
466-2-13	Post Tensioning Tendons (Substructure)	LB	23,372
521-5-4	Concrete Traffic Railing Barrier - Bridge (32" Vertical-shape)	LF	5,253


Filename: \\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St

Printed: #####

HNTB <i>Companies</i>	QUANTITY CALCULATIONS	Made by:	CAM	Date:	11/7/2013
		Checked by:	0	Date:	1/0/1900
		Backchecked by:	0	Date:	1/0/1900
		Item No.		Page No.	1

JOB NAME <u>I-4 PD&E</u>	JOB NO. <u>HNTB 59219</u>
BRIDGE NO. <u>0</u>	ITEM NAME <u>Plan and Elevation Sheet</u>

DRAWING PROVIDED FOR REFERENCE ONLY -- NOT FOR CONSTRUCTION

 <i>The HNTB Companies</i>	QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>0</i>	Date: <i>1-00-00</i>
		Backchecked by <i>0</i>	Date: <i>1-00-00</i>
		Item No. <i>400-2-4</i>	Page No. 2A

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0

ITEM NAME Concrete Class II (Superstructure)


LOCATION	CY
<div> <div>Superstructure</div> <div>Entire Bridge</div> <div>5312.7</div> </div>	<div>5,312.7</div>
<div>Total</div>	<div>5,312.7</div>

Filename: \\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\engPrinted: #####

HNTB The HNTB Companies	QUANTITY CALCULATIONS	Made by: CAM	Date: 11-07-13
		Checked by: 0	Date: 1-00-00
		Backchecked by: 0	Date: 1-00-00
		Item No. 400-2-4	Page No. 28

JOB NAME I-4 PD&E	JOB NO. HNTB 59219
BRIDGE NO. 0	ITEM NAME Concrete Class II (Superstructure)
LOCATION Deck, Build-up & Sidewalk	

		CF	CY																																																																																		
TOTAL BRIDGE DECK Span Length = 2566.25 ft Skew = 0.00 degrees Deck Width = 74.08 ft Slab Area = 190107.80 ft ² Slab Thickness = 8.50 in Deck Vol = 134659.7 ft³		134,659.7	4987.4																																																																																		
BUILD-UP FOR CREST VERTICAL CURVE SPANS (CASE 3) <table border="1"> <thead> <tr> <th>Beam</th> <th>L (ft)</th> <th>B (in)</th> <th>C (in)</th> <th>D (in)</th> <th>Area (ft²)</th> <th>Width of Build-Up (ft)</th> <th>Volume ft³</th> </tr> </thead> <tbody> <tr><td>1-1</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>284.93</td><td>4.00</td><td>1139.70</td></tr> <tr><td>1-2</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>285.07</td><td>4.00</td><td>1140.27</td></tr> <tr><td>1-3</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>285.07</td><td>4.00</td><td>1140.27</td></tr> <tr><td>1-4</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>284.93</td><td>4.00</td><td>1139.70</td></tr> <tr><td>1-5</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>284.93</td><td>4.00</td><td>1139.70</td></tr> <tr><td>1-6</td><td>2566.25</td><td>2.00</td><td>1.00</td><td>2.00</td><td>284.93</td><td>4.00</td><td>1139.70</td></tr> <tr> <td colspan="5">Total Volume =</td> <td>6839.3</td> <td></td> <td></td> </tr> </tbody> </table> BUILD-UP BETWEEN BEAMS (Thickened End Slab) Build Up = 4.00 in Beam Width = 4.00 ft Beam Spacing = 13.11 ft Haunch (Dim "B") = 2.00 in Length of Thickened End Slab = 2.50 ft Number of Bays = 5 <table border="1"> <thead> <tr> <th>Bay</th> <th>Area =</th> <th>Volume =</th> </tr> </thead> <tbody> <tr><td>Bay 1</td><td>0.89 ft²</td><td>8.10 ft³</td></tr> <tr><td>Bay 2</td><td>0.89 ft²</td><td>8.10 ft³</td></tr> <tr><td>Bay 3</td><td>0.89 ft²</td><td>8.10 ft³</td></tr> <tr><td>Bay 4</td><td>0.89 ft²</td><td>8.10 ft³</td></tr> <tr><td>Bay 5</td><td>0.89 ft²</td><td>8.10 ft³</td></tr> </tbody> </table> 		Beam	L (ft)	B (in)	C (in)	D (in)	Area (ft ²)	Width of Build-Up (ft)	Volume ft ³	1-1	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70	1-2	2566.25	2.00	1.00	2.00	285.07	4.00	1140.27	1-3	2566.25	2.00	1.00	2.00	285.07	4.00	1140.27	1-4	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70	1-5	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70	1-6	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70	Total Volume =					6839.3			Bay	Area =	Volume =	Bay 1	0.89 ft ²	8.10 ft ³	Bay 2	0.89 ft ²	8.10 ft ³	Bay 3	0.89 ft ²	8.10 ft ³	Bay 4	0.89 ft ²	8.10 ft ³	Bay 5	0.89 ft ²	8.10 ft ³	6,839.3	253.3
Beam	L (ft)	B (in)	C (in)	D (in)	Area (ft ²)	Width of Build-Up (ft)	Volume ft ³																																																																														
1-1	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70																																																																														
1-2	2566.25	2.00	1.00	2.00	285.07	4.00	1140.27																																																																														
1-3	2566.25	2.00	1.00	2.00	285.07	4.00	1140.27																																																																														
1-4	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70																																																																														
1-5	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70																																																																														
1-6	2566.25	2.00	1.00	2.00	284.93	4.00	1139.70																																																																														
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Bay 5	0.89 ft ²	8.10 ft ³																																																																																			
SIDEWALK VOLUME Span Length = 0.00 ft Side Walk Width = 0 ft Cross Sectional Area = 0 ft ² Total Volume = 0 ft ³		0.0	0.0																																																																																		
TOTAL =		143,443.5	5,312.7																																																																																		

 <i>The HNTB Companies</i>	SUMMARY OF QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>0</i>	Date: <i>1-00-00</i>
		Backchecked by: <i>0</i>	Date: <i>1-00-00</i>
		Item No. <i>415-1-4</i>	Page No. 2D

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0

ITEM NAME Reinforcing Steel (Superstructure)

MEMBER	LBS
<div> <div>Superstructure</div> <div>Based on FDOT SDG BDR Table 9.2.3</div> <div> <div>Bridge</div> <div>1,089,109</div> </div> <div> <div>Total</div> <div>1,089,109</div> </div> </div>	
<div>Total</div>	1,089,109



Made by:	CAM	Date:	11-07-13
Checked by:	O	Date:	1-00-00
Backchecked by	O	Date:	1-00-00
Item No.	400-2-10	Page No	3A

JOB NO. HNTB 59219

ITEM NAME Concrete Class II (Approach Slabs)199.0

Filename: \\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\ePrinted: #####



QUANTITY
CALCULATIONS

Made by:	CAM	Date:	11-07-13
Checked by:	0	Date:	1-00-00
Backchecked	0	Date:	1-00-00
Item No.	400-2-10	Page No	3B


JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0

ITEM NAME Concrete Class II (Approach Slabs)

		CY																																										
<p>Skew = 15.656 deg</p> <p>Approach Slab No.1</p> <p>No. of Locations = 1</p> <p>Length 1 (ft)= 30.00 Length for Approach Slabs beyond the backwall of end bent</p> <p>Length 2 (ft)= 2.00 Length for Approach Slabs on backwall of end bent</p> <p>Width (ft)= 74.08 Width of widening for Approach Slabs</p> <p>Thickness 1 (ft)= 1.00 Thickness of approach slab beyond end bent backwall</p> <p>Thickness 2 (ft)= 1.146 Thickness of approach slab on end bent backwall</p> <p>volume = width * (length 1 * thickness 1 + length 2 /cos(Skew)* thickness 2) * number of locations</p> <p>SIDEWALK VOLUME</p> <table><tr><td>Span Length =</td><td>32.00 ft</td><td rowspan="3">Sidewalks are located at end limits of deck (See Detail)</td></tr><tr><td>Side Walk Width =</td><td>7.08 ft</td></tr><tr><td>ss Sectional Area =</td><td>4.5 ft²</td></tr><tr><td colspan="2">Total Volume=</td><td>288 ft³</td></tr><tr><td>Volume =</td><td>2686.71 CF</td><td></td></tr><tr><td>Volume =</td><td>99.5 CY</td><td></td></tr><tr><td colspan="2">Approach Slab No.1</td><td>99.5</td></tr><tr><td colspan="2"><p>Approach Slab No. 2</p><p>No. of Locations = 1</p><p>Length 1 (ft)= 30.00 Length for Approach Slabs beyond the backwall of end bent</p><p>Length 2 (ft)= 2.00 Length for Approach Slabs on backwall of end bent</p><p>Width (ft)= 74.08 Width of widening for Approach Slabs</p><p>Thickness 1 (ft)= 1.00 Thickness of approach slab beyond end bent backwall</p><p>Thickness 2 (ft)= 1.146 Thickness of approach slab on end bent backwall</p><p>volume = width * (length 1 * thickness 1 + length 2 /cos(Skew)* thickness 2) * number of locations</p><p>SIDEWALK VOLUME</p><table><tr><td>Span Length =</td><td>32.00 ft</td><td rowspan="3">Sidewalks are located at end limits of deck (See Detail)</td></tr><tr><td>Side Walk Width =</td><td>7.08 ft</td></tr><tr><td>ss Sectional Area =</td><td>4.5 ft²</td></tr><tr><td colspan="2">Total Volume=</td><td>288 ft³</td></tr><tr><td>Volume =</td><td>2686.71 CF</td><td></td></tr><tr><td>Volume =</td><td>99.5 CY</td><td></td></tr><tr><td colspan="2">Approach Slab No. 2</td><td>99.5</td></tr><tr><td colspan="2">TOTAL =</td><td>199.0</td></tr></table></td></tr></table>		Span Length =	32.00 ft	Sidewalks are located at end limits of deck (See Detail)	Side Walk Width =	7.08 ft	ss Sectional Area =	4.5 ft ²	Total Volume=		288 ft ³	Volume =	2686.71 CF		Volume =	99.5 CY		Approach Slab No.1		99.5	<p>Approach Slab No. 2</p> <p>No. of Locations = 1</p> <p>Length 1 (ft)= 30.00 Length for Approach Slabs beyond the backwall of end bent</p> <p>Length 2 (ft)= 2.00 Length for Approach Slabs on backwall of end bent</p> <p>Width (ft)= 74.08 Width of widening for Approach Slabs</p> <p>Thickness 1 (ft)= 1.00 Thickness of approach slab beyond end bent backwall</p> <p>Thickness 2 (ft)= 1.146 Thickness of approach slab on end bent backwall</p> <p>volume = width * (length 1 * thickness 1 + length 2 /cos(Skew)* thickness 2) * number of locations</p> <p>SIDEWALK VOLUME</p> <table><tr><td>Span Length =</td><td>32.00 ft</td><td rowspan="3">Sidewalks are located at end limits of deck (See Detail)</td></tr><tr><td>Side Walk Width =</td><td>7.08 ft</td></tr><tr><td>ss Sectional Area =</td><td>4.5 ft²</td></tr><tr><td colspan="2">Total Volume=</td><td>288 ft³</td></tr><tr><td>Volume =</td><td>2686.71 CF</td><td></td></tr><tr><td>Volume =</td><td>99.5 CY</td><td></td></tr><tr><td colspan="2">Approach Slab No. 2</td><td>99.5</td></tr><tr><td colspan="2">TOTAL =</td><td>199.0</td></tr></table>		Span Length =	32.00 ft	Sidewalks are located at end limits of deck (See Detail)	Side Walk Width =	7.08 ft	ss Sectional Area =	4.5 ft ²	Total Volume=		288 ft ³	Volume =	2686.71 CF		Volume =	99.5 CY		Approach Slab No. 2		99.5	TOTAL =		199.0
Span Length =	32.00 ft	Sidewalks are located at end limits of deck (See Detail)																																										
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Approach Slab No. 2		99.5																																										
TOTAL =		199.0																																										

 <i>The HNTB Companies</i>	SUMMARY OF QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>0</i>	Date: <i>1-00-00</i>
		Backchecked by: <i>0</i>	Date: <i>1-00-00</i>
		Item No. <i>415-1-9</i>	Page No. 3C

JOB NAME
I-4 PD&E

JOB NO.
HNTB 59219

BRIDGE NO.
0

ITEM NAME
Reinforcing Steel (Approach Slab)

MEMBER	LBS
<div> <div> Reinforcing Steel (Approach Slab) Based on FDOT SDG BDR Table 9.2.3 </div> <div> <div>Approach Slab 1</div> <div>Approach Slab 2</div> <div>Total</div> </div> <div> <div>20398</div> <div>20398</div> <div></div> </div> </div>	<div>40795</div>
<div>Total</div>	<div>40,795</div>

COMPONENT NAME	NO. OF E	Class IV Concrete (Substructure)			Reinforcing Steel (Substructure)		
		PAY ITEM DESCRIPTION	DESIGN ORIGINAL	VOLUME (CY)	CONSTRUCTION FINAL	PAY ITEM DESCRIPTION	DESIGN ORIGINAL
			REFERENCE/REMARKS		VOLUME (CY)		REFERENCE/REMARKS
End Bent No.1	0	45.1				WEIGHT (LB)	OVER/UNDER RUN
Pier No. 2	0.4					6,089	
Pier No. 3	0.4					46,867	
Pier No. 4	0.4					46,867	
Pier No. 5	0.4					46,867	
Pier No. 6	27.1					27,224	
Pier No. 7	27.1					27,224	
Pier No. 8	27.1					27,224	
Pier No. 9	27.1					27,224	
Pier No. 10	27.1					27,224	
Pier No. 11	27.1					27,224	
Pier No. 12	28.1					27,890	
Pier No. 13	28.1					27,890	
Pier No. 14	27.1					27,224	
Pier No. 15	0.4					46,867	
Pier No. 16	0.4					46,867	
Pier No. 17	0.4					46,867	
Pier No. 18	0.4					46,867	
Pier No. 19	0.4					46,867	
Pier No. 20	0.4					46,867	
End Bent No.21	45.1					6,089	
		340.3	<PAGE TOTAL> <PROJECT GRAND> <TOTAL>			707,415	<PAGE TOTAL> <PROJECT GRAND> <TOTAL>

If the above item is under the Plan Quantity Concept, then the block below must be appropriately filled out

Plan Quantity Concept Signature Block
Design Engineer's Responsibility for Calculations: Signature: Print name:
Plan Quantity Item.

NOTES FOR EXPLANATION OF OVER/UNDER RUN

CONCRETE: STEEL:

EXTRA NOTES / REMARK:

HNTB <i>The HNTB Companies</i>	SUMMARY OF QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>O</i>	Date: <i>1-00-00</i>
		Backchecked by: <i>O</i>	Date: <i>1-00-00</i>
		Item No. <i>400-4-5</i>	Page No. 4A

JOB NAME I-4 PD&E JOB NO. HNTB 59219

BRIDGE NO. 0.00 ITEM NAME Concrete Class IV (Substructure)

LOCATION	CY
<u>Substructure</u> (Does not include Mass Concrete. See Sheets 5-5A for Mass Concrete Quantities)	
<i>End Bent No.1</i>	<i>45.1</i>
<i>Note: Old piles still in place at Piers 2 & 3</i>	<i>Pier No. 2 0.4</i>
<i>Note: Old piles still in place at Piers 2 & 3</i>	<i>Pier No. 3 0.4</i>
	<i>Pier No. 4 0.4</i>
	<i>Pier No. 5 0.4</i>
	<i>Pier No. 6 27.1</i>
	<i>Pier No. 7 27.1</i>
	<i>Pier No. 8 27.1</i>
	<i>Pier No. 9 27.1</i>
	<i>Pier No. 10 27.1</i>
	<i>Pier No. 11 27.1</i>
	<i>Pier No. 12 28.1</i>
	<i>Pier No. 13 28.1</i>
	<i>Pier No. 14 27.1</i>
	<i>Pier No. 15 0.4</i>
	<i>Pier No. 16 0.4</i>
	<i>Pier No. 17 0.4</i>
	<i>Pier No. 18 0.4</i>
	<i>Pier No. 19 0.4</i>
	<i>Pier No. 20 0.4</i>
<i>End Bent No.21</i>	<i>45.1</i>
<i>Total =</i>	<i>340.3</i>
<i>Total</i>	340.3

 <i>The HNTB Companies</i>	QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>0</i>	Date: <i>1-00-00</i>
		Backchecked: <i>0</i>	Date: <i>1-00-00</i>
		Item No. <i>400-4-5</i>	Page No. 48

JOB NAME <i>I-4 PD&E</i>	JOB NO. <i>HNTB 59219</i>
BRIDGE NO. <i>0</i>	ITEM NAME <i>Concrete Class IV (Substructure)</i>
	LOCATION <i>End Bent No.1</i>

	CF	CY												
END BENT NO.1														
<p><u>End Bent Cap</u></p> <p>Cap Width = <i>4.000</i> ft Cap Depth = <i>3.000</i> ft Cap Length = <i>61.083</i> ft</p> <p>Cap Volume = Width * Depth * [Cap Length] = <i>733.000</i> ft³</p> <p>No. of Piles in Bent = <i>5</i> Square Pile Size = <i>24</i> in Embed = <i>12</i> in</p> <p>Deduct Volume = No. Piles * [Size^2] * Embed = <i>-20.000</i> ft³</p> <p>End Bent Cap</p>	713.00	26.4												
<p>Check Cap for Mass Concrete:</p> <p>Minimum Dimension = <i>3.00</i> ft Surface Area = <i>879.17</i> ft² Surface Area = 2 * (width * depth + depth * cap length + width * cap length) Volume = <i>713.00</i> ft³ V/A Ratio = <i>0.81</i> ft Mass Concrete? No</p>														
<p><u>End Bent Backwall</u></p> <p>T_{Backwall} = <i>1.000</i> ft L_{Backwall} = <i>61.083</i> ft</p> <p>T_{BkwallCoping} (Thickness Btwn Coping & Gutter) = <i>0.000</i> ft L_{BkwallCoping} (Length Btwn Coping & Gutter) = <i>0.000</i> ft</p> <p>Angle = <i>90</i> deg</p> <p>Area = <i>61.083</i> ft²</p> <p>Area = T_{Backwall} * L_{Backwall} + T_{BkwallCoping} * L_{BkwallCoping} + 1/2 * T_{Backwall}² * tan(angle-90°)</p> <p>Backwall Height</p> <table border="1"> <tr> <td>Elev at Top of Wall (Pt. 1)</td> <td>Elev at Top of Wall (Pt. 2)</td> <td>Elev at Top of Wall (Pt. 3)</td> <td>Elev at Top of Cap (Pt. 1)</td> <td>Elev at Top of Cap (Pt. 2)</td> <td>Elev at Top of Cap (Pt. 3)</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p>Backwall Height (Avg.) = <i>8.000</i> ft</p> <p>Backwall Volume = Area * average height of backwall = <i>488.666</i> ft³</p> <p>End Bent Backwall</p>	Elev at Top of Wall (Pt. 1)	Elev at Top of Wall (Pt. 2)	Elev at Top of Wall (Pt. 3)	Elev at Top of Cap (Pt. 1)	Elev at Top of Cap (Pt. 2)	Elev at Top of Cap (Pt. 3)	-	-	-	-	-	-	488.67	18.1
Elev at Top of Wall (Pt. 1)	Elev at Top of Wall (Pt. 2)	Elev at Top of Wall (Pt. 3)	Elev at Top of Cap (Pt. 1)	Elev at Top of Cap (Pt. 2)	Elev at Top of Cap (Pt. 3)									
-	-	-	-	-	-									

End Bent Pedestals

Pedestal @ Beam	Avg. Top of Ped. EL.	Cap EL.	PED (ft)
1-1	-	-	
1-2	-	-	
1-3	-	-	
1-4	-	-	
1-5	-	-	
TOTAL			0.000

W= 3.000 Pedestal width (ft)
L= 2.750 Pedestal length (ft)
H= 1.875 Total Pedestal Height (ft)

$$W \times L \times H = 15.47 \text{ ft}^3$$

End Bent Pedestals

Cheekwall

Cap Width = 0.000 ft
Cap Depth = 0.000 ft
L1 (Average cheekwall Length) = 6.184 ft
L2 (Length from Back face of Backwall to Front of cap) = 0.000 ft

$$\text{Vol.} = 0.000 \text{ ft}^3$$

$$\text{Vol.} = [\text{Width} \times (L1 - L2) + T_{\text{wingwall}} \times L2 + 1/2 \times L2^2 \tan(\text{Angle} - 90^\circ)] \times \text{Depth}$$

$$\text{No. of Piles in Bent} = 0$$

$$\text{Deduct Volume} = \text{No. Piles} \times [\text{Size}^2] \times \text{Embed} = 0.000 \text{ ft}^3$$

T_{Cheekwall} = 0.000 ft
L_{Cheekwall} = 0.000 ft

	Elev at Top of Wall (Pt. 1)	Elev at Top of Wall (Pt. 2)	Elev at Bot of Cap (Pt. 1)	Elev at Top of Cap (Pt. 2)	Backwall Height (Avg.)
South	0.000	0.000	0.000	0.000	0.000 ft
North	0.000	0.000	0.000	0.000	0.000 ft

$$\text{Backwall Height (Avg.)} = 0.000 \text{ ft}$$

$$\text{Cheekwall Volume} = T_{\text{cheekwall}} \times L_{\text{Cheekwall}} \times \text{average height of backwall} = 0.000 \text{ ft}^3$$

2 Cheek walls

Total = 1217.13 45.1

Footings
(Footings already existing)

Number of Footings=
0
per pier

Lftg=
0
Length, (ft)

Wftg=
0
Width, (ft)

Dftg=
0
Depth, (ft)

Npiles=
0
Number of Piles in Footing

Pile Size=
0
Pile Size (Square), (ft.)

Embed=
0
Pile Embedment, (ft.)

Total =
0
ft³

Volume = ((Lftg * Wftg * Dftg) - [Npiles * Pile Size * Pile Size * Embed]) * number of footings

Check for Mass Concrete

Segment	Min Dimension (FT)	Surface Area (SF)	V/A Ratio (FT)	Mass Concrete?
Cap	4.50	2125.66	1.25	YES
Column	4.00	651.10	1.30	YES
Strut 1	2.00	521.33	0.72	NO
Strut 2	2.00	394.60	2.64	YES
Footings	6.00	7964.00	1.45	YES

Footings
0.00

0.0

Total =
6157.23

228.0

Filename:
\\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\02 Alt print :
2:34:02 PM

	CONCRETE QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11/7/2013</i>
		Checked by: <i>0</i>	Date: <i>1/0/1900</i>
		Backchecked By: <i>0</i>	Date: <i>1/0/1900</i>
		Item No. <i>400-4-5</i>	Page No. 4C

JOB NAME <i>I-4 PD&E</i>	JOB NO. <i>HNTB 59219</i>
BRIDGE NO. <i>0</i>	ITEM NAME <i>Concrete Class IV (Substructure)</i>
	LOCATION <i>Pier No. 2</i>

		CF	CY																																			
Typical River Piers																																						
<u>Pier Pedestals</u>																																						
	<table border="1"> <thead> <tr> <th>Location</th> <th>Pedestal</th> <th>AVG EL.</th> <th>CAP EL</th> <th>PED (ft)</th> </tr> </thead> <tbody> <tr><td>Pier</td><td>1</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier</td><td>2</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier</td><td>3</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier</td><td>4</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier</td><td>5</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td colspan="2"></td><td>TOTAL</td><td></td><td>1.875</td></tr> </tbody> </table>	Location	Pedestal	AVG EL.	CAP EL	PED (ft)	Pier	1	-	-	0.375	Pier	2	-	-	0.375	Pier	3	-	-	0.375	Pier	4	-	-	0.375	Pier	5	-	-	0.375			TOTAL		1.875		
Location	Pedestal	AVG EL.	CAP EL	PED (ft)																																		
Pier	1	-	-	0.375																																		
Pier	2	-	-	0.375																																		
Pier	3	-	-	0.375																																		
Pier	4	-	-	0.375																																		
Pier	5	-	-	0.375																																		
		TOTAL		1.875																																		
	W= <i>2.750</i> Pedestal width (ft) L= <i>2.250</i> Pedestal length (ft) H= <i>1.875</i> Total Pedestal Height (ft)																																					
<u>Pier Cap</u>	W= <i>4.5</i> ft L= <i>94.583</i> ft Depth 1= <i>6</i> ft Volume 1= <i>2553.74</i> ft ³ Total= <i>2553.74</i> ft ³	<i>Pedestals</i> 11.60	0.4																																			
		<i>Cap</i> 2553.74	94.6																																			
<u>Cheek Walls</u>	No. of walls = <i>0</i> Angle = <i>0.000</i> deg Thickness = <i>0</i> in L = <i>0.000</i> ft																																					
	<table border="1"> <thead> <tr> <th>Elev at Top of wall (Pt. 1)</th> <th>Elev at Top of wall (Pt. 2)</th> <th>Elev at Top of Flange (Pt. 1)</th> <th>Elev at Top of Flange (Pt. 2)</th> <th>Wall Height (Avg.)</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> <td>0.000</td> </tr> </tbody> </table>	Elev at Top of wall (Pt. 1)	Elev at Top of wall (Pt. 2)	Elev at Top of Flange (Pt. 1)	Elev at Top of Flange (Pt. 2)	Wall Height (Avg.)	0.000	0.000	0.000	0.000	0.000	<i>Cheekwall</i> 0.00	0.0																									
Elev at Top of wall (Pt. 1)	Elev at Top of wall (Pt. 2)	Elev at Top of Flange (Pt. 1)	Elev at Top of Flange (Pt. 2)	Wall Height (Avg.)																																		
0.000	0.000	0.000	0.000	0.000																																		
<u>Column</u>	Number of Columns = <i>2</i> per pier Length of Column = <i>6</i> Length, (ft) Width of Column = <i>4</i> Width, (ft) Top Elevation = <i>41.125</i> ft Bottom Elevation = <i>4.25</i> ft Length Column = <i>36.875</i> Height, (ft) Initial Total = <i>1770</i> ft ³																																					
Volume = Number of Columns * Width of Column* Length column* Height of Column * Note: Chamfer edges on column																																						
	Deductions Chamfer = <i>73.75</i> ft ³ New Total = <i>1696.25</i> ft ³	<i>Column</i> 1696.25	62.8																																			
<u>Strut</u>	Strut 1 L = <i>30</i> ft Strut 1 W = <i>2</i> ft Strut 1 H = <i>6</i> ft Strut 1 Volume = <i>360</i> ft ³ (per strut)	<i>Strut 1</i> 720.00	26.7																																			
	Strut 2 L = <i>82.583</i> ft Strut 2 W = <i>2</i> ft Strut 2 H = <i>6</i> ft Strut 2 Volume = <i>990.996</i> ft ³	<i>Strut 2</i> 991.00	36.7																																			
	Total = <i>1710.996</i> ft ³																																					

Footings
(Footings already existing)

Number of Footings=

0

per pier

Lftg=

0

Length, (ft)

Wftg=

0

Width, (ft)

Dftg=

0

Depth, (ft)

Npile=

0

Number of Piles in Footing

Pile Size=

0

Pile Size (Square), (ft.)

Embed=

0

Pile Embedment, (ft.)

Total =

0

ft³

Volume = ((Lftg * Wftg * Dftg) - [Npiles * Pile Size * Pile Size * Embed]) * number of footings

Footings

0.00

0.0

Check for Mass Concrete

Segment	Min Dimension (FT)	Surface Area (SF)	V/A Ratio (FT)	Mass Concrete?
Cap	4.50	2040.24	1.25	YES
Column	4.00	651.10	1.30	YES
Strut 1	2.00	504.00	0.71	NO
Strut 2	2.00	378.33	2.62	YES
Footings	6.00	7964.00	1.45	YES

per column

per strut

Total =

5972.59

221.2

	CONCRETE QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11/7/2013</i>
		Checked by: <i>0</i>	Date: <i>1/0/1900</i>
		Backchecked By: <i>0</i>	Date: <i>1/0/1900</i>
		Item No. <i>400-4-5</i>	Page No. 4C

JOB NAME <i>I-4 PD&E</i>	JOB NO. <i>HNTB 59219</i>
BRIDGE NO. <i>0</i>	ITEM NAME <i>Concrete Class IV (Substructure)</i>
	LOCATION <i>Pier No. 2</i>

		CF	CY																																			
Typical Land Piers																																						
Pier Pedestals																																						
	<table border="1"> <thead> <tr> <th>Location</th> <th>Pedestal</th> <th>AVG EL.</th> <th>CAP EL</th> <th>PED (ft)</th> </tr> </thead> <tbody> <tr><td>Pier 1</td><td>1</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier 2</td><td>2</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier 3</td><td>3</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier 4</td><td>4</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td>Pier 5</td><td>5</td><td>-</td><td>-</td><td>0.375</td></tr> <tr><td colspan="2"></td><td>TOTAL</td><td></td><td>1.875</td></tr> </tbody> </table>	Location	Pedestal	AVG EL.	CAP EL	PED (ft)	Pier 1	1	-	-	0.375	Pier 2	2	-	-	0.375	Pier 3	3	-	-	0.375	Pier 4	4	-	-	0.375	Pier 5	5	-	-	0.375			TOTAL		1.875		
Location	Pedestal	AVG EL.	CAP EL	PED (ft)																																		
Pier 1	1	-	-	0.375																																		
Pier 2	2	-	-	0.375																																		
Pier 3	3	-	-	0.375																																		
Pier 4	4	-	-	0.375																																		
Pier 5	5	-	-	0.375																																		
		TOTAL		1.875																																		
	W= <i>2.750</i> Pedestal width (ft) L= <i>2.250</i> Pedestal length (ft) H= <i>1.875</i> Total Pedestal Height (ft)																																					
Pier Cap	W= <i>4.5</i> ft L= <i>41.41666667</i> ft Depth 1= <i>6</i> ft Volume 1= <i>1118.25</i> ft ³ Total= <i>1118.25</i> ft ³	<i>Pedestals</i> <i>11.60</i>	<i>0.4</i>																																			
	<i>(Based on existing pier caps)</i>																																					
Cheek Walls	No. of walls = <i>0</i> Angle = <i>0.000</i> deg Thickness = <i>0</i> in L = <i>0.000</i> ft																																					
	<table border="1"> <thead> <tr> <th>Elev at Top of wall (Pt. 1)</th> <th>Elev at Top of wall (Pt. 2)</th> <th>Elev at Top of Flange (Pt. 1)</th> <th>Elev at Top of Flange (Pt. 2)</th> <th>Wall Height (Avg.)</th> </tr> </thead> <tbody> <tr> <td><i>0.000</i></td> <td><i>0.000</i></td> <td><i>0.000</i></td> <td><i>0.000</i></td> <td><i>0.000</i> ft</td> </tr> </tbody> </table>	Elev at Top of wall (Pt. 1)	Elev at Top of wall (Pt. 2)	Elev at Top of Flange (Pt. 1)	Elev at Top of Flange (Pt. 2)	Wall Height (Avg.)	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i> ft																											
Elev at Top of wall (Pt. 1)	Elev at Top of wall (Pt. 2)	Elev at Top of Flange (Pt. 1)	Elev at Top of Flange (Pt. 2)	Wall Height (Avg.)																																		
<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i> ft																																		
Column	Number of Columns = <i>2</i> per pier Length of Column = <i>6</i> Length, (ft) Width of Column = <i>4</i> Width, (ft) Top Elevation = <i>38.387</i> ft (assume max. land pier elevation, Bottom Elevation = <i>1</i> ft (assume min. land pier elevation, Length Column = <i>37.387</i> Height, (ft) Initial Total = <i>1794.576</i> ft ³																																					
	Volume = Number of Columns * Width of Column* Length column* Height of Column * Note: Chamfer edges on column																																					
	Deductions Chamfer = <i>74.774</i> ft ³ New Total = <i>1719.802</i> ft ³	<i>Column</i> <i>1719.80</i>	<i>63.7</i>																																			
Strut	Struts not required on land piers																																					
	Strut 1 L = <i>0</i> ft Strut 1 W = <i>0</i> ft Strut 1 H = <i>0</i> ft Strut 1 Volume = <i>0</i> ft ³ (per strut)	<i>Strut 1</i> <i>0.00</i>	<i>0.0</i>																																			
	Strut 2 L = <i>0</i> ft Strut 2 W = <i>0</i> ft Strut 2 H = <i>0</i> ft Strut 2 Volume = <i>0</i> ft ³	<i>Strut 2</i> <i>0.00</i>	<i>0.0</i>																																			
	Total = <i>0</i> ft ³																																					

Footing

Number of Footings= 2 per pier
Lftg= 16 Length, (ft)
Wftg= 16 Width, (ft)
Dftg= 6 Depth, (ft)
Npile= 9 Number of Piles in Footing
Pile Size= 2 Pile Size (Square), (ft.)
Embed= 1 Pile Embedment, (ft.)
Total = 3036 ft³

Volume = ((Lftg * Wftg * Dftg) - [Npiles * Pile Size * Pile Size * Embed]) * number of footing

*Footing**3036.00**112.4***Check for Mass Concrete**

Segment	Min Dimension (FT)	Surface Area (SF)	V/A Ratio (FT)	Mass Concrete?
Cap	4.50	923.75	1.21	YES
Column	4.00	660.14	1.30	YES
Strut 1	0.00	0.00	#DIV/0!	#DIV/0!
Strut 2	0.00	0.00	#DIV/0!	#DIV/0!
Footing	6.00	896.00	3.39	YES

per column
per strut

Total =**5885.65****218.0**

Filename: \\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\02 Alt print :

2:34:02 PM



The HNTB Companies

SUMMARY OF QUANTITY
CALCULATIONS

Made by:	CAM	Date:	11-07-13
Checked by:	0	Date:	1-00-00
Backchecked By	0	Date:	1-00-00
Item No.	415-1-5	Page No.	4E

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0

ITEM NAME Reinforcing Steel (Substructure)

MEMBER	LBS
End Bent No.1	6,089
Pier No. 2	46,867
Pier No. 3	46,867
Pier No. 4	46,867
Pier No. 5	46,867
Pier No. 6	27,224
Pier No. 7	27,224
Pier No. 8	27,224
Pier No. 9	27,224
Pier No. 10	27,224
Pier No. 11	27,224
Pier No. 12	27,820
Pier No. 13	27,820
Pier No. 14	27,224
Pier No. 15	27,224
Pier No. 16	46,867
Pier No. 17	46,867
Pier No. 18	46,867
Pier No. 19	46,867
Pier No. 20	46,867
End Bent No.21	6,089
Total	707,415

Filename: \\Lkmw00\pmwork3\Jobs\59219 - 14 SAMR\TECHPROD\43210012201\Segment 4\struct\enc Printed: #####

COMPONENT NAME	NO. E	PAY ITEM DESCRIPTION			Class IV Concrete (Mass-Substructure)			PAY ITEM DESCRIPTION			CONSTRUCTION FINAL			CONSTRUCTION FINAL		
		DESIGN ORIGINAL	VOLUME (CY)	REFERENCE/REMARKS	VOLUME (CY)	OVER/UNDER	REF.	REMARKS	WEIGHT (LB)	REFERENCE/REMARKS	WEIGHT (LB)	OVER/UNDER	REF.	REMARKS	WEIGHT (LB)	OVER/UNDER
End Bent No.1	0		0.0													
Pier No. 2			217.6													
Pier No. 3			217.6													
Pier No. 4			217.6													
Pier No. 5			217.6													
Pier No. 6			194.1													
Pier No. 7			194.1													
Pier No. 8			194.1													
Pier No. 9			194.1													
Pier No. 10			194.1													
Pier No. 11			194.1													
Pier No. 12			194.1													
Pier No. 13			194.1													
Pier No. 14			194.1													
Pier No. 15			217.6													
Pier No. 16			217.6													
Pier No. 17			217.6													
Pier No. 18			217.6													
Pier No. 19			217.6													
Pier No. 20			217.6													
End Bent No.21			0.0													
			3.899.1	<PAGE TOTAL> <PROJECT GRAND> <TOTAL>						<PAGE TOTAL> <PROJECT GRAND> <TOTAL>						

If the above item is under the Plan Quantity Concept , then the block below must be appropriately filled out

Plan Quantity Concept Signature Block
Design Engineer's Responsibility for Calculations: Signature: Print name:

Plan Quantity Item.

NOTES FOR EXPLANATION OF OVER/UNDER RUN

CONCRETE: STEEL:

EXTRA NOTES / REMARK:



Made by:	CAM	Date:	11/7/2013
Checked by:	O	Date:	1/0/1900
Backchecked	O	Date:	1/0/1900
Item No.	400-425	Page No.	5A

JOB NO. HNTB 59219

ITEM NAME Concrete Class IV (Mass-Substructure)

See Conc. Class IV (Substructure) for Calculations.

Filename: \\Lkmw00\pmwork3\Jobs\59219 - 14 SAMR\TECHPROD\43210012201\Segment 4\struct\eng Printed: #####

[illegible]

	<p>If the above item is under the Plan Quantity Concept, then the block below must be appropriate _____</p> <hr/> <p>Plan Quantity Concept Signature Block Design Engineers Responsible for Calculations: All support measurements and computations: Signature: _____ included for this Plan Quantity Item.</p> <hr/> <p>NOTES FOR EXPLANATION OF OVER/UNDER R_____</p> <p>_____ _____ _____</p> <p>:EXTRA NOTES / REJ _____</p>	<p>Print Name: _____</p>
--	---	---------------------------------

Made by:	CAM	Date:	11-07-13
Checked by:	O	Date:	1-00-00
Backchecked by:	O	Date:	1-00-00
Item No.	400-9	Page Nc	6A

JOB NO. HNTB 59219

ITEM NAME Bridge Deck Grooving and Planning (Deck Thickness $\geq 8.5"$)

				SF	SY
Bridge Grooving Area					
<i>Approach Slabs:</i>					
	Length (ft)	Width (ft)	Area (ft ²)		
Approach Slab @ EB No. 1 =	2.00	75.08	150.2		
Approach Slab @ EB No. 21 =	2.00	75.08	150.2		
			300.3		
<i>width for grooving = width of bridge - width of barrier - width of sidewalk</i>					
<i>Area of Approach Slab for grooving =</i>				300.3	33
<i>area of grooving = width for grooving * length for grooving</i>					
<i>Bridge:</i>					
	Length (ft)	Width (ft)	Area (ft ²)		
Bridge =	2566.25	75.08	192674.1		
			192674.1		
<i>width for grooving = width of bridge - width of barrier - width of sidewalk</i>					
<i>Area of Bridge for grooving =</i>				192674.1	21408
<i>area of grooving = width for grooving * length for grooving</i>					
Total Grooving Area =				192,974.4	21,442

LOCATION	Composite Neoprene Pads			
	VOLUME MEASURE (CF)	DESIGN ORIGINAL	VOLUME MEASURE (CF)	REMARKS
End Bent No.1	5.7	REMARKS (No. of Pads)	12	CONSTRUCTION FINAL
Pier No. 2	5.7	REMARKS (No. of Pads)	12	OVER/UNDER RUN
Pier No. 3	5.7	REMARKS (No. of Pads)	12	REMARKS
Pier No. 4	5.7	REMARKS (No. of Pads)	12	
Pier No. 5	5.7	REMARKS (No. of Pads)	12	
Pier No. 6	5.7	REMARKS (No. of Pads)	12	
Pier No. 7	5.7	REMARKS (No. of Pads)	12	
Pier No. 8	5.7	REMARKS (No. of Pads)	12	
Pier No. 9	5.7	REMARKS (No. of Pads)	12	
Pier No. 10	5.7	REMARKS (No. of Pads)	12	
Pier No. 11	5.7	REMARKS (No. of Pads)	12	
Pier No. 12	5.7	REMARKS (No. of Pads)	12	
Pier No. 13	5.7	REMARKS (No. of Pads)	12	
Pier No. 14	5.7	REMARKS (No. of Pads)	12	
Pier No. 15	5.7	REMARKS (No. of Pads)	12	
Pier No. 16	5.7	REMARKS (No. of Pads)	12	
Pier No. 17	5.7	REMARKS (No. of Pads)	12	
Pier No. 18	5.7	REMARKS (No. of Pads)	12	
Pier No. 19	5.7	REMARKS (No. of Pads)	12	
Pier No. 20	5.7	REMARKS (No. of Pads)	12	
End Bent No.21	5.7	REMARKS (No. of Pads)	12	

119.6

< PAGE TOTAL >

< PROJECT GRAND TOTAL >

If the above item is under the Plan Quantity Concept, then the block below must be appropriately filled out

Plan Quantity Concept Signature Block

Design Engineers Responsible for Calculations:

Signature:

Print Name:

NOTES FOR EXPLANATION OF OVER/UNDER RU

EXTRA NOTES / REMARKS:

HNTB <i>the h n t b Companies</i>	SUMMARY OF QUANTITY CALCULATIONS	Made by:	CAM	Date:	11-07-13
		Checked by:	0	Date:	1-00-00
		Backchecked by:	0	Date:	1-00-00
		Item No.	400-147	Page No.	7A

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0

ITEM NAME Composite Neoprene Bearing Pad

FDOT Standard Bearing Pad Type G

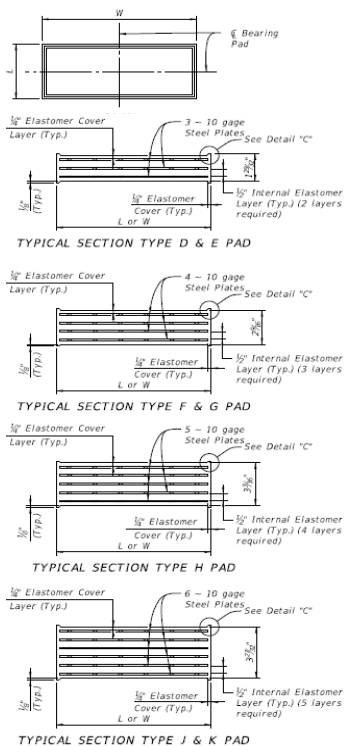
L = 10.00 Length (in)
W = 32.00 Width (in)
H = 2.56 Height (in)
V = 0.47 Volume (ft³) (EACH)

Composite Neoprene Bearing Pad

Unit	No. of Pads	Volume (CF)
End Bent No. 1	12	5.69
Pier No. 2	12	5.69
Pier No. 3	12	5.69
Pier No. 4	12	5.69
Pier No. 5	12	5.69
Pier No. 6	12	5.69
Pier No. 7	12	5.69
Pier No. 8	12	5.69
Pier No. 9	12	5.69
Pier No. 10	12	5.69
Pier No. 11	12	5.69
Pier No. 12	12	5.69
Pier No. 13	12	5.69
Pier No. 14	12	5.69
Pier No. 15	12	5.69
Pier No. 16	12	5.69
Pier No. 17	12	5.69
Pier No. 18	12	5.69
Pier No. 19	12	5.69
Pier No. 20	12	5.69
End Bent No. 21	12	5.69
Sub-Totals	252	119.58

TOTALS

Volume (cf) = 119.6



PAD TYPE (See Note 1)	BEARING PAD DIMENSIONS		*BEVELED BEARING PLATE DIMENSIONS	
	L	W	C	D
D (G=110psi)	8"	2'-8"	1'-0"	3'-0"
E (G=110psi)	10"	2'-8"	1'-0"	3'-0"
F (G=110psi)	10"	2'-8"	1'-0"	3'-0"
G (G=150psi)	10"	2'-8"	1'-0"	3'-0"
H (G=150psi)	10"	2'-8"	1'-0"	3'-0"
J (G=150psi)	10"	2'-8"	1'-0"	3'-0"
K (G=150psi)	1'-0"	2'-8"	1'-1 1/2"	3'-0"

PAY ITEM DESCRIPTION		Prestressed Concrete Piling (18" Sq.)				PAY ITEM DESCRIPTION				
DESIGN ORIGINAL QUANTITY				CONSTRUCTION FINAL QUANTITY						
STRUCTURE COMPONENT IDENTIFICATION	NO. REOD	LENGTH EACH LINEAR*	TOTAL LENGTH LINEAR*	REFERENCE/REMARKS	AUTHORIZED LENGTH*	FURNISHED*	PAY LENGTH DRIVEN*	REFERENCE	OVER OR UNDER RUN FROM DESIGN ORIGINAL FURNISHED*	REMARKS
	EA	FT	400		FT	FT	FT		FT	
End Bent No. 1	5	80.00	400							
Pier No. 2	18	80.00	1,440							
Pier No. 3	18	80.00	1,440							
Pier No. 4	18	80.00	1,440							
Pier No. 5	18	80.00	1,440							
Pier No. 6										
Pier No. 7										
Pier No. 8										
Pier No. 9										
Pier No. 10										
Pier No. 11										
Pier No. 12										
Pier No. 13										
Pier No. 14										
Pier No. 15	18	80.00	1,440							
Pier No. 16	18	80.00	1,440							
Pier No. 17	18	80.00	1,440							
Pier No. 18	18	80.00	1,440							
Pier No. 19	18	80.00	1,440							
Pier No. 20	18	80.00	1,440							
End Bent No. 21	5	80.00	400							
*PROVIDE APPROPRIATE UNITS FOR THIS ITEM					< PAGE TOTAL >					
IN CONTRACT (i.e. LF, MD)					< PROJECT GRAND TOTAL >					

EXPLANATION OF OVER/UNDER RUN (DESIGN ORIGINAL/FINAL PAY LENGTH)

PILING FURNISHED:

PILING DRIVEN:

EXTRA NOTES / REMARKS:



**QUANTITY
CALCULATIONS**

Made by:	CAM	Date:	11/7/2013
Checked by:	0	Date:	1/0/1900
Backchecked By:	0	Date:	1/0/1900
Item No.	455-34-3	Page No.	9A

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE 0

ITEM NAME Prestr. Concr. Piling (18" Sq.)

Bent	Total Number of Piles *	Top of Pile Elev. (ft)	Estimated Tip Elev. (ft)	Pile Length (LF)	Subtotal Pile Length (LF)	Total Pile Length (LF)
	<i>Pile Batter =</i>	0.00	in per ft			
<i>End Bent No. 1</i>						
<i>Plumb</i>	5			80.0	400.0	400.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 2</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 3</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 4</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 5</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 15</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 16</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 17</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 18</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 19</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>Pier No. 20</i>						
<i>Plumb</i>	18			80.0	1440.0	1440.0
<i>Battered</i>	0			0.0	0.0	0.0
<i>End Bent No. 21</i>						
<i>Plumb</i>	5			80.0	400.0	400.0
<i>Battered</i>	0			0.0	0.0	0.0
*Not Including Test Piles					SUB-TOTAL =	15200
					TOTAL =	15200

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PAY ITEM DESCRIPTION	Test Pile (Prestressed Concrete) (18" Sq.)				PAY ITEM DESCRIPTION			
	DESIGN ORIGINAL QUANTITY				CONSTRUCTION FINAL QUANTITY			
STRUCTURE COMPONENT IDENTIFICATION	NO. RECD.	LENGTH EACH LINEAR ¹	TOTAL LENGTH ²	REFERENCE/REMARKS	AUTHORIZED LENGTH ³	PAY LENGTH		OVER OR UNDER RUN FROM DESIGN ⁴
						FURNISHED ⁵	DRIVEN ⁶	
	EA	FT	FT		FT	FT	FT	FT
End Bent No.1	1	80	80					
Pier No. 2	1	80	80					
Pier No. 3	1	80	80					
Pier No. 4	1	80	80					
Pier No. 5	1	80	80					
Pier No. 6								
Pier No. 7								
Pier No. 8								
Pier No. 9								
Pier No. 10								
Pier No. 11								
Pier No. 12								
Pier No. 14								
Pier No. 15								
Pier No. 16	1	80	80					
Pier No. 17	1	80	80					
Pier No. 18	1	80	80					
Pier No. 19	1	80	80					
Pier No. 20	1	80	80					
End Bent No.21	1	80	80					
*PROVIDE APPROPRIATE UNITS FOR THIS ITEM IN CONTRACT (i.e. LF, MD).				< PAGE TOTAL >		0	0	0
				< PROJECT GRAND TOTAL >		0	0	0

NATION OF OVER/UNDER RUN (DESIGN ORIGINAL/FINAL PAY LE

PILING FURNISHED:

PILING DRIVEN:

EXTRA NOTES / REMARKS:

 <i>The HNTB Company</i>	QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11/7/2013</i>
		Checked by: <i>0</i>	Date: <i>1/0/1900</i>
		Backchecked <i>0</i>	Date: <i>1/0/1900</i>
		Item No. <i>455-143-3</i>	Page No. 10A

JOB NAME	<i>I-4 PD&E</i>	JOB NO.	<i>HNTB 59219</i>
BRIDGE	<i>0</i>	ITEM NAME	<i>Test Piles (Prestr. Concr) (18" SQ.)</i>

Bent	Total Number of Test Piles	Test Pile Length (LF)		Total Test Pile Length (LF)
<i>End Bent No. 1</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 2</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 3</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 4</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 5</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 16</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 17</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 18</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 19</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>Pier No. 20</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
<i>End Bent No. 21</i>	<i>1</i>	<i>80.0</i>		<i>80</i>
Total =	9		SUBTOTAL =	720

\\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\02 Alternative 2 - Reversible Lan

PAY ITEM DESCRIPTION		Bridge Deck Expansion Joint (F&J) (Poured Joint with Backer Rod)			
		DESIGN ORIGINAL	CONSTRUCTION FINAL		
LOCATION	SIDE	NGTH* COMPONENT WEIGHT+ NUMBER PER HOUR, DAY, EACH	REFERENCES/REMARKS	NGTH* COMPONENT WEIGHT+ NUMBER PER HOUR, DAY, EACH	REMARKS
End Bent No.1		74 LF			
Pier No. 2		74 LF			
Pier No. 3		74 LF			
Pier No. 4		74 LF			
Pier No. 5		74 LF			
Pier No. 6		74 LF			
Pier No. 7		74 LF			
Pier No. 8		74 LF			
Pier No. 9		74 LF			
Pier No. 10		74 LF			
Pier No. 11		74 LF			
Pier No. 12		74 LF			
Pier No. 13		74 LF			
Pier No. 14		74 LF			
Pier No. 15		74 LF			
Pier No. 16		74 LF			
Pier No. 17		74 LF			
Pier No. 18		74 LF			
Pier No. 19		74 LF			
Pier No. 20		74 LF			
End Bent No.21		74 LF			
*PROVIDE APPROPRIATE UNITS FOR THIS SHOW IN CONTRACT (i.e. LF, MI, LB, KG)		1556 LF	< PAGE TOTAL >		
If the above item is under the Plan Quantity Concept, then the block below must be appropriately filled out.			< PROJECT GRAND TOTAL >		

Plan Quantity Concept Signature Block
Design Engineers Responsible for Calculations: _____ Signature: _____ Print Name: _____

NOTES FOR EXPLANATION OF OVER/UNDER RUN:

EXTRA NOTES / REMARKS:

 <i>The HNTB Companies</i>	QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by: <i>0</i>	Date: <i>1-00-00</i>
		Backchecked <i>0</i>	Date: <i>1-00-00</i>
		Item No. <i>458-1-11</i>	Page No. <i>11A</i>

JOB NAME I-4 PD&E JOB NO. HNTB 59219

BRIDGE NO. 0 ITEM NAME Bridge Deck Exp Joint (F&I) (Poured Joint w Backer Rod)

<i>Span</i>	<i>Expansion Joint Length (LF)</i>	<i>Total Expansion Joint Length (LF)</i>
End Bent No.1	74.14	74.1
Pier No.2	74.14	74.1
Pier No.3	74.14	74.1
Pier No.4	74.14	74.1
Pier No.5	74.14	74.1
Pier No.6	74.14	74.1
Pier No.7	74.14	74.1
Pier No.8	74.14	74.1
Pier No.9	74.14	74.1
Pier No.10	74.14	74.1
Pier No.11	74.14	74.1
Pier No.12	74.14	74.1
Pier No.13	74.14	74.1
Pier No.14	74.14	74.1
Pier No.15	74.14	74.1
Pier No.16	74.14	74.1
Pier No.17	74.14	74.1
Pier No.18	74.14	74.1
Pier No.19	74.14	74.1
Pier No.20	74.14	74.1
End Bent No. 21	74.14	74.1
Total	1556.89	1556.1
	Total Length =	1557



QUANTITY CALCULATIONS

Made by:	CAM	Date:	11-07-13
Checked by:	O	Date:	1-00-00
Backchecked by:	O	Date:	1-00-00
Item No.	#VALUE!	Page No.	12A

JOB NAME I-4 PD&E

JOB NO. HNTB 59219

BRIDGE NO. 0ITEM NAME Bridge Deck Exp Joint (F&I) (Poured Joint w Backer Rod)

Span	Area of Prestressing Steel (in ²)	Pier Cap Length (LF)	Volume of Prestressing Steel (CF)	Weight of Prestressing Steel (LB)
End Bent No.1	0.00	0.0	0.0	0.0
Pier No.2	0.00	0.0	0.0	0.0
Pier No.3	0.00	0.0	0.0	0.0
Pier No.4	0.00	0.0	0.0	0.0
Pier No.5	0.00	0.0	0.0	0.0
Pier No.6	7.20	94.6	4.7	2317.3
Pier No.7	7.20	94.6	4.7	2317.3
Pier No.8	7.20	94.6	4.7	2317.3
Pier No.9	7.20	94.6	4.7	2317.3
Pier No.10	7.20	94.6	4.7	2317.3
Pier No.11	7.20	94.6	4.7	2317.3
Pier No.12	7.20	98.7	4.9	2416.9
Pier No.13	7.20	98.7	4.9	2416.9
Pier No.14	7.20	94.6	4.7	2317.3
Pier No.15	7.20	94.6	4.7	2317.3
Pier No.16	0.00	0.0	0.0	0.0
Pier No.17	0.00	0.0	0.0	0.0
Pier No.18	0.00	0.0	0.0	0.0
Pier No.19	0.00	0.0	0.0	0.0
Pier No.20	0.00	0.0	0.0	0.0
End Bent No. 21	0.00	0.0	0.0	0.0
Total	72.00	954.0	47.7	23372.2
	Total Weight =	23372		

 <i>The HNTB Companies</i>	QUANTITY CALCULATIONS	Made by: <i>CAM</i>	Date: <i>11-07-13</i>
		Checked by:	Date:
		Backchecked by:	Date:
		Item No. <i>521-5-4</i>	Page No <i>13A</i>

JOB NAME <i>I-4 PD&E</i>	JOB NO. <i>HNTB 59219</i>
BRIDGE NO. <i>0</i>	ITEM NAME <i>Conc Traffic Rlg Barr (Bridge) (32" Vertical-Shape)</i>

			LF

Bridge Development Report Cost Estimating

Effective 7/01/2013

Step One: Estimate Component Items

Utilizing the cost provided herein, develop the cost estimate for each bridge type under consideration.

A. Bridge Substructure

1. Prestressed Concrete Piling, (furnished and installed)			
Size of Piling	Cost per Lin. Foot ¹	Quantity	Cost
18" (Driven Plumb or 1" Batter)	\$65		
18" (Driven Battered)	\$75		
24" (Driven Plumb or 1" Batter)	\$85	15200	\$1,292,000
24" (Driven Battered)	\$95	880	\$83,600
30" (Driven Plumb or 1" Batter)	\$120		
30" (Driven Battered)	\$140		
Heavy mild steel reinforcing in pile head (each)	\$250		
Subtotal			\$1,375,600

¹ When silica fume, metakaolin or ultrafine fly ash is used add \$6/LF to the piling cost.

2. Steel Piling, (furnished and installed)			
Size of Piling	Cost per Lin. Foot	Quantity	Cost
14 x 73 H Section	\$70		
14 x 89 H Section	\$90		
20" Pipe Pile	\$105		
24" Pipe Pile	\$114		
30" Pipe Pile	\$160		
Subtotal			

3. Drilled Shaft (Total in-place cost)			
Dia. (on land, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$300		
4 ft	\$430		
5 ft	\$510		
6 ft	\$630		
7 ft	\$750		
8 ft	\$1,550		
9 ft	\$1,800		
Dia. (in water, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$320		
4 ft	\$500		
5 ft	\$600		
6 ft	\$690		
7 ft	\$900		
8 ft	\$1,650		
9 ft	\$1,900		
Dia. (in water, permanent casing)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$460		
4 ft	\$625		
5 ft	\$750		
6 ft	\$990		
7 ft	\$1,250		
8 ft	\$2,200		
9 ft	\$2,400		

Subtotal

A. Bridge Substructure (continued)

4. Sheet Piling Walls			
Size (Prestressed Concrete)	Cost per Lin. Foot	Quantity	Cost
10" x 30"	\$100		
12" x 30"	\$110		
Type (Steel)	Cost per Sq. Foot	Quantity	Cost
Permanent Cantilever Wall	\$24		
Permanent Anchored Wall ¹	\$36		
Temporary Cantilever Wall	\$14		
Temporary Anchored Wall ¹	\$22		
Soil Anchors	Cost per Anchor	Quantity	Cost
Permanent	\$3,200		
Temporary	\$2,800		
¹ Includes the cost of waler steel, miscellaneous steel for permanent/temporary walls and concrete face for permanent walls.		Subtotal	

5. Cofferdam Footing (Cofferdam and Seal Concrete ¹)			
Prorate the cost provided herein based on area and depth of water. A cofferdam footing having the following attributes cost \$600,000: Area 63 ft x 37.25 ft; Depth of seal 5 ft; Depth of water over footing 16 ft			
Type	Cost per Footing	Quantity	Cost
Cofferdam Footing			
¹ Cost of seal concrete included in pay item 400-3-20 or 400-4-200.		Subtotal	

6. Substructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Concrete ¹	\$575	340.3	\$195,673
Mass Concrete ¹	\$512	3899.1	\$1,996,339
Seal Concrete ¹	\$412		
Bulkhead Concrete ¹	\$925		
Shell Fill ¹	\$30		
¹ Admixtures: For Calcium Nitrite add \$40/cy (@4.5 gal/cy) and for silica fume, metakaolin or ultrafine fly ash add \$40/cy (@ 60 lb./cy)		Subtotal	\$2,192,012

7. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.90	707415	\$636,674
		Subtotal	\$636,674

Substructure Subtotal **\$4,204,285**

B. Bridge Superstructure

1. Bearing Material			
Type	Cost per Cubic Foot	Quantity	Cost
Neoprene Bearing Pads	\$900	119.6	\$107,640
Multitrotational Bearings (Capacity in kips)	Cost per Each	Quantity	Cost
1- 250	\$6,000		
251- 500	\$7,000		
501- 750	\$8,000		
751-1000	\$9,500		
1001-1250	\$9,900		
1251-1500	\$10,000		
1501-1750	\$11,000		
1751-2000	\$12,500		
>2000	\$15,000		
Subtotal			\$107,640

2. Bridge Girders			
Structural Steel (includes coating)	Cost per Pound	Quantity	Cost
Rolled Wide Flange Sections, straight ¹	\$1.70		
Rolled Wide Flange Sections, curved ¹	\$1.85		
Plate Girders, Straight ¹	\$1.70		
Plate Girders, Curved ¹	\$1.90		
Box Girders, Straight ¹	\$1.95		
Box Girders, Curved ¹	\$2.05		
Prestressed Concrete Girders	Cost per Lin. Foot	Quantity	Cost
Fl. Inverted Tee 16" ²	\$80		
Fl. Inverted Tee 20"	\$90		
Fl. Inverted Tee 24" ²	\$105		
Fl. Tub (U-Beam) 48" ²	\$700		
Fl. Tub (U-Beam) 54"	\$750		
Fl. Tub (U-Beam) 63"	\$800		
Fl. Tub (U-Beam) 72"	\$900		
Solid Flat Slab (<48"x12")	\$150		
Solid Flat Slab (<48"x15")	\$160		
Solid Flat Slab (48"x12")	\$160		
Solid Flat Slab (48"x15")	\$170		
Solid Flat Slab (60"x12")	\$170		
Solid Flat Slab (60"x15")	\$180		
AASHTO Type II	\$98		
Florida-I; 36	\$165		
Florida-I; 45	\$180		
Florida-I; 54	\$190		
Florida-I; 63	\$200		
Florida-I; 72	\$230		
Florida-I; 78	\$250	15397.5	\$3,849,375
Florida-I; 84	\$320		
Florida-I; 96	\$400		
Haunched Florida-I; 78	\$700		
Haunched Florida-I; 84	\$800		
Subtotal			\$3,849,375

1 When weathering steel (uncoated) is used reduce the price by \$0.04 per pound. Inorganic zinc coating systems have an expected life cycle of 20 years.

2 Price is based on ability to furnish products without any conversions of

casting beds and without purchasing of forms. If these conditions do not exist,
add the following cost: Inverted Tee - \$202,000: Fl. Tub - \$403,000

B. Bridge Superstructure (continued)

3. Cast-in-Place Superstructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Box Girder Concrete, Straight	\$950	5511.7	\$3,307,020
Box Girder Concrete, Curved	\$1,100		
Deck Concrete	\$600		
Precast Deck Overlay Concrete Class IV	\$600		
		Subtotal	\$3,307,020

4. Concrete for Precast Segmental Box Girders, Cantilever Construction				
Concrete Cost by Deck Area		Cost per Cubic Yard	Quantity	Cost
≤ 300,000 SF		\$1,250		
> 300,000 SF AND ≤ 500,000 SF		\$1,200		
> 500,000 SF		\$1,150		
			Subtotal	

5. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.60	1089109	\$653,465
Subtotal			\$653,465

6. Post-Tensioning Steel			
Type	Cost per Pound	Quantity	Cost
Strand, Longitudinal	\$2.50	23372	\$93,488
Strand, Transverse	\$4.00		
Bars	\$6.00		
		Subtotal	\$93,488

7. Railings and Barriers			
Type	Cost per Lin. Foot	Quantity	Cost
Traffic Railing ¹	\$70	5253	\$367,710
Pedestrian/Bicycle Railings:			
Concrete Parapet (27") ¹	\$65		
Single Bullet Railing ¹	\$27		
Double Bullet Railing ¹	\$36		
Triple Bullet Railing ¹	\$45		
Picket Railing (42") steel	\$65		
Picket Railing (42") aluminum	\$50		
Picket Railing (54") steel	\$95		
Picket Railing (54") aluminum	\$60		
1 Combine cost of Bullet Railings with Concrete Parapet or Traffic Railing, as appropriate.				Subtotal	$367,710

8. Expansion Joints			
Type	Cost per Lin. Foot	Quantity	Cost
Strip Seal	\$360	1556	\$560,160
Finger Joint <6"	\$850		
Finger Joint >6"	\$1,500		
Modular 6"	\$500		
Modular 8"	\$700		
Modular 12"	\$900		
		Subtotal	\$560,160

Superstructure Subtotal **\$8,938,858**

C. Miscellaneous Items

1. MSE Walls

Type	Cost per Sq. Foot	Quantity	Cost
Permanent	\$26		
Temporary	\$14		
		Walls Subtotal	

2. Sound Barriers

Type	Cost per Sq. Foot	Quantity	Cost
Post and Panel Sound Barriers	\$25		
		Sound Barrier Subtotal	

3. Detour Bridges

Type	Cost per Sq. Foot	Quantity	Cost
Acrow Detour Bridge ¹	\$55		
		Detour Bridge Subtotal	

¹ Using FDOT supplied components. The cost is for the bridge proper and does not include approach work, surfacing, or guardrail.

Unadjusted Total **\$13,143,144**

Step Two: Estimate Conditional Variables and Cost per Square Foot

After developing the total cost estimate utilizing the unit cost, modify the cost to account for site condition variables. If appropriate, the cost will be modified by the following variables:

Conditional Variables	% Increase/ Decrease	Cost (+/-)
For construction over water, increase cost by 3 %.	15%	\$1,971,472
Phased construction, increase by 20 %.	20%	\$2,628,629
1 Phased construction is defined as construction over traffic or construction requiring multiple phases to complete the construction of the entire cross section of the bridge. The 20 percent premium is applied to the affected units of the superstructure and/or substructure.	35%	\$4,600,100

Substructure Subtotal	\$4,204,285
Superstructure Subtotal	\$8,938,858
Walls Subtotal	
Sound Barrier Subtotal	
Detour Bridge Subtotal	
Conditional Variables	\$4,600,100
Total Cost	\$17,743,244

Total Square Feet of Deck **190116.2686**

Cost per Square Foot \$93

Design Aid for Determination of Reinforcing Steel

In the absence of better information, use the following quantities of reinforcing steel per cubic yard of concrete.

Location	Pounds of Steel	Cubic Yds.	Tot. Pounds
Pile Abutments	135		
Pile Bents	145		
Single Column Piers >25'	210		
Single Column Piers <25'	150		
Multiple Column Piers >25'	215		
Multiple Column Piers <25'	195		
Bascule Piers	110		
Standard Deck Slabs	205		
Isotropic Deck Slabs	125		
Concrete Box Girders, Pier Seg	225		
Concrete Box Girders, Typ. Seg	165		
Flat Slabs @ 30ft & 15" Deep	220		

Step Three: Cost Estimate Comparison to Historical Bridge Cost

The final step is a comparison of the cost estimate by comparison with historic bridge cost based on a cost per square foot. These total cost numbers are calculated exclusively for the bridge cost as defined in the General Section of this chapter. Price computed by Steps 1 and 2 should be generally within the range of cost as supplied herein. If the cost falls outside the provided range, good justification must be provided.

Bridge Superstructure Type	Total Cost per Square Foot	
	Low	High
Short Span Bridges:		
Reinforced Concrete Flat Slab- Simple Span ¹	\$92	\$160
Pre-cast Concrete Slab - Simple Span ¹	\$81	\$200
Medium Span Bridges:		
Concrete Deck / Steel Girder - Simple Span ¹	\$125	\$142
Concrete Deck / Steel Girder - Continuous Span ¹	\$135	\$170
Concrete Deck / Prestressed Girder - Simple Span ¹	\$66	\$145
Concrete Deck / Prestressed Girder - Continuous Span ¹	\$83	\$211
Concrete Deck / Steel Box Girder ¹ - Span range from 150' to 280' (for curvature, add 15% premium)	\$100	\$165
Segmental Concrete Box Girders - Cantilever Construction Span range from 150' to 280'	\$130	\$160
Movable Bridge - Bascule Spans & Piers	\$1,800	\$2,000
Demolition Costs:		
Typical	\$35	\$60
Bascule	\$60	\$70
Project Type		
Widening (Construction Only)	\$85	\$160

¹ Increase the cost by twenty percent for phased construction

Estimated Cost per Square Foot \$93