

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

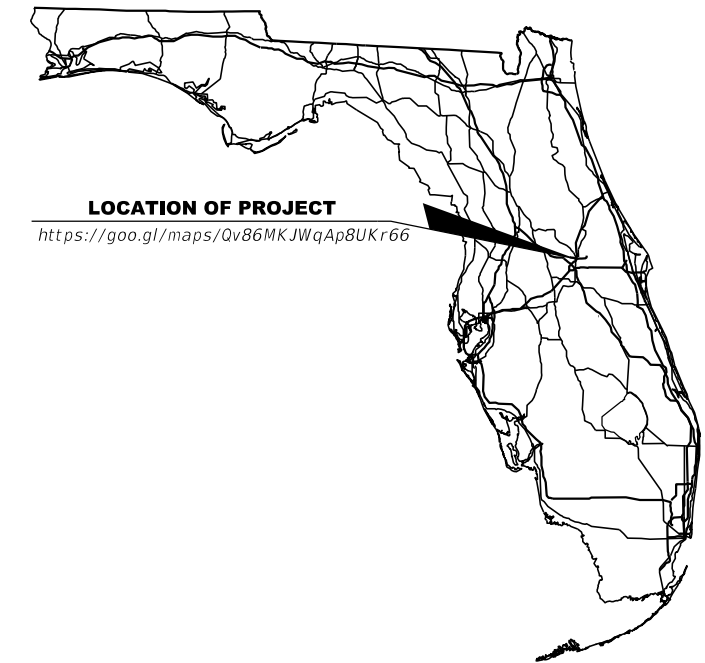
CONTRACT PLANS

FINANCIAL PROJECT ID 441113-1-52-01
(FEDERAL FUNDS)

ORANGE COUNTY (75280)

STATE ROAD NO. 400 (I-4)

LIGHTING PLANS

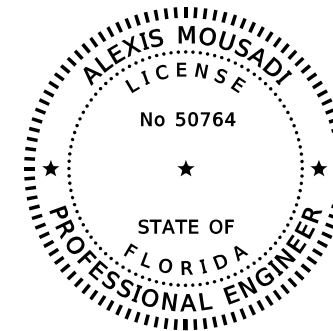


LOCATION OF PROJECT

<https://goo.gl/maps/Qv86MKJWqAp8UKr66>

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THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL.

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100% (PHASE IV)
APRIL 2020

LIGHTING PLANS
ENGINEER OF RECORD:

ALEX MOUSADI, P.E.
P.E. NO.: 50764
AECOM Technical Services, Inc.
150 North Orange Avenue, Suite 200
Orlando, FL. 32801
T 407.843.6552 F 407.839.1789

FDOT PROJECT MANAGER:

Su Hao, PE

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	21	L-1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-11		L-12		L-13		L-14		L-15		L-16		L-17		L-18		L-19		L-20		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF					620		625		30				804		380		1936		4210		8605				
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF					190		190						497		400		240		65		1582				
630-2-15	CONDUIT (F&I) (BRIDGE MOUNT)	LF																					0				
635-2-11	PULL BOX (F&I) (13X24)	EA					5		4		2				9		11		20		28		79				
635-3-11	JUNCTION BOX, F&I, AERIAL	EA																									
635-3-13	JUNCTION BOX (F&I), EMBEDDED EJB 'A'	EA															7		18				25				
635-3-13	JUNCTION BOX (F&I), EMBEDDED EJB 'B'	EA																					0				
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS																					0				
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF																	300				300				
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF																					0				
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 to NO. 6	LF					2790		2757		162				4551		5937		10974		8544		35715				
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 to NO. 2	LF																	300		5508		5808				
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF					808		810		30				1298		635		1385		2694		7660				
715-4-13	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 40' MH	EA					4		5		1				2								12				
715-4-70	LIGHT POLE COMPLETE (REMOVE)	EA					4		3		1				8		8		10		13		47				
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA																					0				
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA					1																1				
715-7-41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA																					0				
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA																					0				
715-11-211	LUMINAIRE, F&I-REPLACE EXIST LUMINAIRE ON EXIST POLE/ARM, ROADWAY, COBRA HEAD	EA					4		2						1								7				
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA					4		5		1				9		9		16		28		72				
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNTED	EA															6		9				15				
715-511-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 40' MH	EA													6		8		15		28		57				
715-511-145	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 45' MH	EA													1								1				
715-512-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, AL, 40' MH	EA															1		1				2				
715-513-135	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 35'	EA																					0				
715-513-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 40' MH	EA															6		5				11				
715-515-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT, AL, 40' MH	EA																	4				4				

PAY ITEM NOTES:

- 635-3-13 BRIDGE MOUNTED EMBEDDED JUNCTION BOXES FOR THIS PROJECT USE BOTH EJB 'A' AND EJB 'B' TYPE BOXES AS INDICATED ON PLANS.
- 715-1-60 INCLUDES ALL CABLES INSIDE EXISTING CONDUIT (BUNDLED NOT PER CABLE), SLACK INSIDE EXISTING PULL BOXES AND CABLE RUN FROM EXISTING PULL BOX TO LIGHT POLE BASE.
- 715-4-13 & 715-4-14 SHALL INCLUDE NEW AESTHETIC DAVIT STYLE POLE AS INDICATED ON POLE DATA TABLE.
- 715-7-21 INCLUDES COST OF NEW POLE ID TAG AS INDICATED ON PLANS.
- 715-7-41 SHALL NOT BE REMOVED UNTIL NEW LOAD CENTER TO INSTALLED CONNECTED AND OPERATIONAL.
- 715-11-211 ITEM SHALL INCLUDE NEW INTERNAL VIBRATION DAMPING DEVICE.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

TABULATION OF QUANTITIES

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET			
			L-21		L-22		L-23		L-24		L-25		L-26										PLAN	FINAL		PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL								
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF	3747		1464				445		240														5896		14501	
630-2-12	CONDUIT (F&I) (DIRECTIONAL BORE)	LF	350		190		180		824																1544		3126	
630-2-15	CONDUIT (F&I) (BRIDGE MOUNT)	LF							165				225												390		390	
635-2-11	PULL BOX (F&I) (13X24)	EA	23		12				6		13														54		133	
635-3-11	JUNCTION BOX, F&I, AERIAL	EA											9												9		9	
635-3-13	JUNCTION BOX (F&I), EMBEDDED EJB 'A'	EA							7		13														20		45	
635-3-13	JUNCTION BOX (F&I), EMBEDDED EJB 'B'	EA							14		16														30		30	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS							1																1		1	
639-2-1	ELECTRICAL SERVICE WIRE, F&I	LF							36																36		336	
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF							500				765												1265		1265	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 to NO. 6	LF	4677		2856		588		4924		2619														15664		51379	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 to NO. 2	LF	8985		2904																				11889		17697	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	3372		1639				800																5811		13471	
715-4-13	LIGHT POLE COMPLETE (F&I) (STD POLE, STD FOUNDATION), 40' MH	EA	3		11																				14		26	
715-4-70	LIGHT POLE COMPLETE (REMOVE)	EA	18		9				7																34		81	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA							1																1		1	
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA																							0		1	
715-7-41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA							1																1		1	
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA							2				6												8		8	
715-11-211	LUMINAIRE, F&I-REPLACE EXIST LUMINAIRE ON EXIST POLE/ARM, ROADWAY, COBRA HEAD	EA																							0		7	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	23		11				8																42		114	
715-500-3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNTED	EA							4		7														11		26	
715-511-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 40' MH	EA	19						8																27		84	
715-511-145	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, AL, 45' MH	EA																							0		1	
715-512-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, AL, 40' MH	EA	1																						1		3	
715-513-135	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 35'	EA							1																1		1	
715-513-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, AL, 40' MH	EA							3		7														10		21	
715-515-140	LIGHT POLE COMP-SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT, AL, 40' MH	EA																							0		4	

PAY ITEM NOTES:

- 635-3-13 BRIDGE MOUNTED EMBEDDED JUNCTION BOXES FOR THIS PROJECT USE BOTH EJB 'A' AND EJB 'B' TYPE BOXES AS INDICATED ON PLANS.
- 715-1-60 INCLUDES ALL CABLES INSIDE EXISTING CONDUIT (BUNDLED NOT PER CABLE), SLACK INSIDE EXISTING PULL BOXES AND CABLE RUN FROM EXISTING PULL BOX TO LIGHT POLE BASE.
- 715-4-13 & 715-4-14 SHALL INCLUDE NEW AESTHETIC DAVIT STYLE POLE AS INDICATED ON POLE DATA TABLE.
- 715-7-21 INCLUDES COST OF NEW POLE ID TAG AS INDICATED ON PLANS.
- 715-7-41 SHALL NOT BE REMOVED UNTIL NEW LOAD CENTER TO INSTALLED CONNECTED AND OPERATIONAL.
- 715-11-211 ITEM SHALL INCLUDE NEW INTERNAL VIBRATION DAMPING DEVICE.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

TABULATION OF QUANTITIES

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GENERAL NOTES

1. EXISTING CIRCUITS TO REMAIN UNLESS OTHERWISE NOTED.
2. EXISTING PULL BOXES TO BE REPLACED IF CONDUIT IS BEING ADDED.
3. LIGHT POLE CONCRETE PAD DIMENSIONS TO BE MODIFIED AS NEEDED TO AVOID CONFLICTS WITH EXISTING AND PROPOSED STRUCTURES AND/OR SIDEWALK.
4. REFER TO ROADWAY PLANS FOR LIST OF UTILITY OWNERS AND SPECIAL EVENT DAYS FOR THIS PROJECT.
5. ALL NEW POLE FOUNDATIONS FOR LIGHTING SHALL BE CYLINDRICAL UNLESS OTHERWISE NOTED.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

LEGEND

SYMBOLS	DESCRIPTION
	SINGLE ARM/DOUBLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX.
	REPLACE EXISTING LUMINAIRE WITH NEW LED DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY).
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE IV OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-80BLEDE15-480-R4, 480 VOLT OPERATION, 388 WATT, MOUNTING HEIGHT 45', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGIBLE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, BRIDGE MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX. REFER TO POLE DATA TABLE FOR MORE INFORMATION.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, WALL MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE13-480-R3, 480 VOLT OPERATION, 254 WATT, MOUNTING HEIGHT 35'/40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX. REFER TO POLE DATA TABLE FOR MORE INFORMATION.
	SINGLE 12' ARM LIGHTING STANDARD ALUMINUM POLE, MAST ARM MOUNT, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE14-R3, 120 VOLT OPERATION, 280 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY), PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE PER FDOT STANDARD INDEX. REFER TO SIGNAL PLANS FOR PAYMENT.
	SINGLE ARM LIGHTING STANDARD ALUMINUM LIGHT POLE PEDESTAL, IDENTIFICATION TAG AND LED LUMINAIRES DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE14-R3, 280 WATT, MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM ALUMINUM POLE WITH INTERNAL VIBRATION DAMPERS, PULL BOX, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX. POLES TO BE F&I BY DUKE ENERGY.
	SINGLE ARM LIGHTING STANDARD ALUMINUM POLE, SHOULDER MOUNT, IDENTIFICATION TAG AND LED LUMINAIRE DESIGNED FOR TYPE III OPTICS, AMERICAN ELECTRIC CATALOG NUMBER ATB2-60BLEDE14-R3, 280 WATT, MOUNTING HEIGHT 35'/40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM, ALUMINUM POLE WITH FRANGIBLE, PULL BOX AND GROUNDING SHALL BE PER FDOT STANDARD INDEX. POLE TO BE F&I BY DUKE ENERGY. REFER TO POLE DATA TABLE FOR MORE INFORMATION.
	EXISTING LIGHT POLE AND LUMINAIRE TO REMAIN.
	EXISTING LIGHT POLE AND LUMINAIRE TO BE REMOVED.
	EXISTING ROADWAY LIGHTING LOAD CENTER TO REMAIN UNLESS OTHERWISE NOTED.
	EXISTING PIER CAP UNDERDECK LUMINAIRE TO REMAIN UNLESS OTHERWISE NOTED.

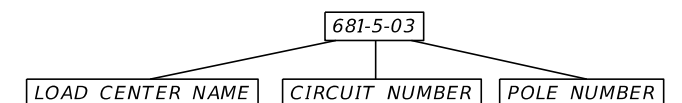
LEGEND

SYMBOLS	DESCRIPTION
----○○----	EXISTING EMBEDDED CONDUIT TO REMAIN UNLESS OTHERWISE NOTED.
...-BE(B)-...	EXISTING UNDERGROUND LIGHTING CONDUIT AND CONDUCTORS TO REMAIN UNLESS OTHERWISE NOTED.
—●—	2" SCHEDULE 40 PVC CONDUIT, UNLESS OTHERWISE NOTED ON PLANS, DIRECT BURIED, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER, GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS.
—●●—	THREE (3) 2" SCHEDULE 80 PVC CONDUITS, UNLESS OTHERWISE NOTED ON PLANS, EMBEDDED IN WALL (TRAFFIC RAILING BARRIER), BRIDGE TRAFFIC RAILING BARRIER AND IN BRIDGE DECK, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS.
—●●—	TWO (2) 2" SCHEDULE 40 PVC CONDUITS, ONE ACTIVE AND ONE SPARE, DIRECTIONAL BORE, TERMINATE IN PULL BOXES. THE ACTIVE CONDUIT SHALL CONTAIN CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE ACTIVE CONDUIT WITH OTHER CONDUCTORS.
—●—	RIGID GALVANIZED STEEL (RGS) CONDUIT 1" OR SIZE AS SPECIFIED IN THE PLANS, EXPOSED SURFACE MOUNT CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STANDARD COPPER. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT W/ OTHER CONDUCTORS.
□	SERVICE POINT LOAD CENTER. SEE F.D.O.T. INDEX 17504. PROVIDE LOAD CENTER, CONCRETE PAD, SERVICE DROP/LATERAL, FUSED DISCONNECT SWITCH, GROUND ROD AND MISCELLANEOUS APPURTENANCES AS DETAILED ON LOAD CENTER DETAIL SHEETS. THE LOAD CENTER, CONCRETE PAD, SERVICE LATERAL CONDUIT AND CONDUCTORS, DISCONNECT SWITCH, ALL UTILITY COMPANY FEES AND MISCELLANEOUS APPURTENANCES ARE INCIDENTAL TO THE LOAD CENTER.
□	PULL BOX WITH CONCRETE PAD AND A 5/8" X 20 FT. GROUND ROD. PROVIDE PULL BOXES WHERE SHOWN ON PLANS, AT BOTH ENDS OF CONDUIT AT ROADWAY CROSSINGS AND ELSEWHERE AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
⊠	JUNCTION BOX EMBEDDED IN WALL (TRAFFIC RAILING BARRIER) OR BRIDGE TRAFFIC RAILING BARRIER. TYPE EJB 'A'.
⊠	JUNCTION BOX EMBEDDED IN WALL (TRAFFIC RAILING BARRIER) OR BRIDGE TRAFFIC RAILING BARRIER. TYPE EJB 'B'.
■	JUNCTION BOX SURFACE MOUNTED ON BRIDGE STRUCTURE, TYPE RGS MATERIAL. SEE PLANS FOR SIZES AND LOCATION.
◐	PIER CAP MOUNTED UNDERDECK LUMINAIRE - LED WALL PACK, HOLOPHANE CATALOG NUMBER W4LED-30C-1000-40K-T3M-480, WIRED FOR 480V OPERATION, 104W, WALL MOUNT.
⊞	EXISTING UTILITY TRANSFORMER TO REMAIN UNLESS OTHERWISE NOTED ON PLANS
▼	NEW UTILITY TRANSFORMER BY POWER COMPANY

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity (Roadway)	1.5 H.F.C.
Uniformity Ratio Avg./Min.	4:1 OR LESS
Uniformity Ratio Max./Min.	10:1 OR LESS
Veiling Luminance Ratio	0.3:1 OR LESS
Wind Speed (Orange County)	140 MPH
Average Initial Intensity (Intersection)	3.0 H.F.C.
Average Initial Intensity (Intersection)	2.3 V.F.C.

POLE ID NAMING CONVENTION



REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

LEGEND

POLE NO.	CIRCUIT	STATION	POLE SETBACK	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	ARM LENGHT (FT)	TILT	PAY ITEM	NOTE
404	B-2-13	111+82	48.9	BL RAMP ISLIP1	254	40	12	0	715-511-140	3
405	B-2-14	113+26	39.0	BL RAMP ISLIP1	254	40	12	0	715-511-140	3
500	B-2-15	7068+71	59.9	BL CONST IWBCD2	254	40	12	0	715-511-140	3
501	B-2-16	7070+16	57.7	BL CONST IWBCD2	254	40	12	0	715-511-140	3
502	B-2-17	7071+60	57.5	BL CONST IWBCD2	254	40	12	0	715-511-140	3
503	B-2-18	7073+03	57.6	BL CONST IWBCD2	254	40	12	0	715-511-140	3
504	B-2-19	7074+46	57.6	BL CONST IWBCD2	254	40	12	0	715-511-140	3
505	B-2-20	7075+87	57.5	BL CONST IWBCD2	254	40	12	0	715-511-140	3
506	B-2-21	7077+31	57.5	BL CONST IWBCD2	254	40	12	0	715-511-140	3
507	B-2-22	7078+76	57.3	BL CONST IWBCD2	254	40	12	0	715-511-140	3
508	B-2-23	7080+19	51.6	BL CONST IWBCD2	254	40	12	0	715-511-140	3
509	B-2-24	7081+63	46.1	BL CONST IWBCD2	254	40	12	0	715-511-140	3
510	B2-1-25	7083+08	45.4	BL CONST IWBCD2	254	40	12	0	715-511-140	3
511	B2-1-24	7084+52	45.6	BL CONST IWBCD2	254	40	12	0	715-511-140	3
512	B2-1-23	7085+96	45.3	BL CONST IWBCD2	254	40	12	0	715-511-140	3
513	B2-1-22	7087+41	45.7	BL CONST IWBCD2	254	40	12	0	715-511-140	3
514	B2-1-21	7088+85	45.4	BL CONST IWBCD2	254	40	12	0	715-511-140	3
515	B2-1-20	7090+31	45.8	BL CONST IWBCD2	254	40	12	0	715-511-140	3
516	B2-1-19	7091+75	45.3	BL CONST IWBCD2	254	40	12	0	715-511-140	3
517	B2-1-18	7093+21	45.3	BL CONST IWBCD2	254	40	12	0	715-511-140	3
518	B2-1-17	7094+60	45.5	BL CONST IWBCD2	254	40	12	0	715-4-13	
519	B2-1-16	7095+01	46.4	BL CONST IWBCD2	254	40	12	0	715-4-13	
600	B2-1-15	302+44	21.8	BL RAMP IA_CFP	254	40	12	0	715-4-13	
601	B2-1-14	303+85	21.7	BL RAMP IA_CFP	254	40	12	0	715-4-13	
602	B2-1-13	305+39	21.4	BL RAMP IA_CFP	254	40	12	0	715-4-13	
603	B2-1-12	306+68	21.3	BL RAMP IA_CFP	254	40	12	0	715-4-13	
604	B2-1-11	308+07	21.7	BL RAMP IA_CFP	254	40	12	0	715-4-13	
605	B2-1-10	309+46	21.6	BL RAMP IA_CFP	254	40	12	0	715-4-13	
700	B2-2-12	212+86	20.3	BL RAMP ISLIP2	388	40	15	0	715-511-140	3
701	B2-2-11	214+75	19.6	BL RAMP ISLIP2	388	40	15	0	715-4-13	
702	B2-2-10	216+64	20.3	BL RAMP ISLIP2	388	40	15	0	715-4-13	
703	B2-2-9	218+54	14.7	BL RAMP ISLIP2	388	40	15	0	715-4-13	
800		201+35	WALL MOUNT	BL EB DCP	280	40	12	0	BY OTHERS	3, 5
801		301+31	WALL MOUNT	BL WB DCP	280	40	12	0	BY OTHERS	3, 5
802		203+41	WALL MOUNT	BL EB DCP	280	40	12	0	BY OTHERS	3, 5
803		304+63	17.4	BL WB DCP	280	35	12	0	BY OTHERS	3, 4
804		305+67	31.4	BL WB DCP	280	35	12	0	BY OTHERS	3, 4
805		307+94	BRIDGE MOUNT	BL WB DCP	280	40	12	0	BY OTHERS	3, 5
806		207+91	BRIDGE MOUNT	BL EB DCP	280	40	12	0	BY OTHERS	3, 5
807		210+03	30	BL EB DCP	280	35	12	0	BY OTHERS	3, 4
808		211+10	7.8	BL EB DCP	280	35	12	0	BY OTHERS	3
809		211+98	91.8	BL EB DCP	280	35	12	0	BY OTHERS	3, 4
810		312+36	WALL MOUNT	BL WB DCP	280	35	8	0	BY OTHERS	3, 6

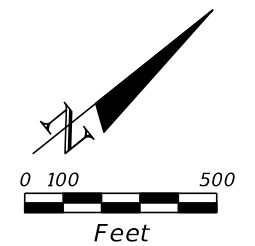
POLE NO.	CIRCUIT	STATION	POLE SETBACK	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	ARM LENGHT (FT)	TILT	PAY ITEM	NOTE
811		212+46	WALL MOUNT	BL EB DCP	280	40	12	0	BY OTHERS	3, 5
812		313+64	47.4	BL WB DCP	280	40	12	0	BY OTHERS	3, 4
813		213+61	44.7	BL EB DCP	280	40	12	0	BY OTHERS	3, 4
814		314+95	47.6	BL WB DCP	280	40	12	0	BY OTHERS	3, 4
815		214+91	46.8	BL EB DCP	280	40	12	0	BY OTHERS	3, 6
816		316+39	57.5	BL WB DCP	280	40	12	0	BY OTHERS	3
817		120+42	77	BL DCP	280	40	12	0	BY OTHERS	3
818		121+87	60.1	BL DCP	280	40	12	0	BY OTHERS	3
819		121+88	73.3	BL DCP	280	40	12	0	BY OTHERS	3
15B	A2-3-10	597+56	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-4-13	
40A	A2-2-5	625+87	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
42A	A2-2-6	628+06	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
44A	A2-2-7	630+27	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
46A	A2-2-8	632+46	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
48A	B-1-9	634+67	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
49A	B-3-8	634+43	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
50A	B-1-8	636+87	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
51A	B-3-7	636+87	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
53A	B-3-6	639+06	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
55A	B-3-5	641+26	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
57	B-3-4	643+46	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
59	B-3-2	645+76	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
61	B-3-1	647+87	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
63	B-4-1	650+06	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
65	B-4-2	652+27	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
67	B-4-3	654+47	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
69	B-4-4	656+67	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
71	B-4-5	658+87	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3
73	B-4-6	661+07	20' EOTL	BL SURVEY SR 400 (I-4)	388	40	15	0	715-511-140	3

LUMINAIRE NO.	CIRCUIT	STATION	OFFSET	ALIGNMENT	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	PAY ITEM	NOTE
UD1	B-4-17a	606+10	3.26	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD2	B-4-17b	606+10	50.86	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD3	B-4-15a	607+00	22.41	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD4	B-4-15b	607+00	30.91	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD5	B-4-14a	607+88	39.41	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT
UD6	B-4-14b	607+88	19.01	BL RAMP IC_DCP	104	16	715-11-125	WALL MOUNT

1. ALL POLES LOCATED ON SLOPES GREATER THAN 1:4 UP TO 1:2 HAVE BEEN FLAGGED ON THE POLE DATA SHEETS. FOUNDATIONS SHALL BE DESIGNED PER INDEX 17515. IF FIELD CONDITION CHANGES DURING CONSTRUCTION AFFECT A SIDE SLOPE, USE THE APPROPRIATE FOUNDATION FOR THE ACTUAL CONDITION.
2. MOUNTING HEIGHT FOR UNDERDECK LUMINAIRE DEFINED AS CENTER OF PIER.
3. NEW AESTHETIC DAVIT STYLE POLE.
4. POLES THAT REQUIRE SPREAD FOOTER OPTION 1.
5. MOUNT POLE TO EXISTING PILASTER.
6. POLES THAT REQUIRE SPREAD FOOTER OPTION 2.

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING DATA TABLE	SHEET NO. L-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BEGIN PROJECT 441113-1-52-01
 BEGIN CONSTRUCTION 441113-1-52-01
 @ SURVEY SR 400 (I-4) STA 546+00.00

@ SURVEY SR 400 (I-4)

STA 556+34.35 @ SURVEY SR 400 =
 STA 675+35.92 @ SURVEY SR 535

BEGIN LIGHTING LIMITS
 STA 555+66

BEGIN @ RAMP IC1_535 STA 900+00.00 =
 STA 667+97.61 @ SURVEY SR 535

END @ RAMP IC1_535 STA 918+10.33 =
 STA 568+72.58 @ SURVEY SR 400 (I-4)

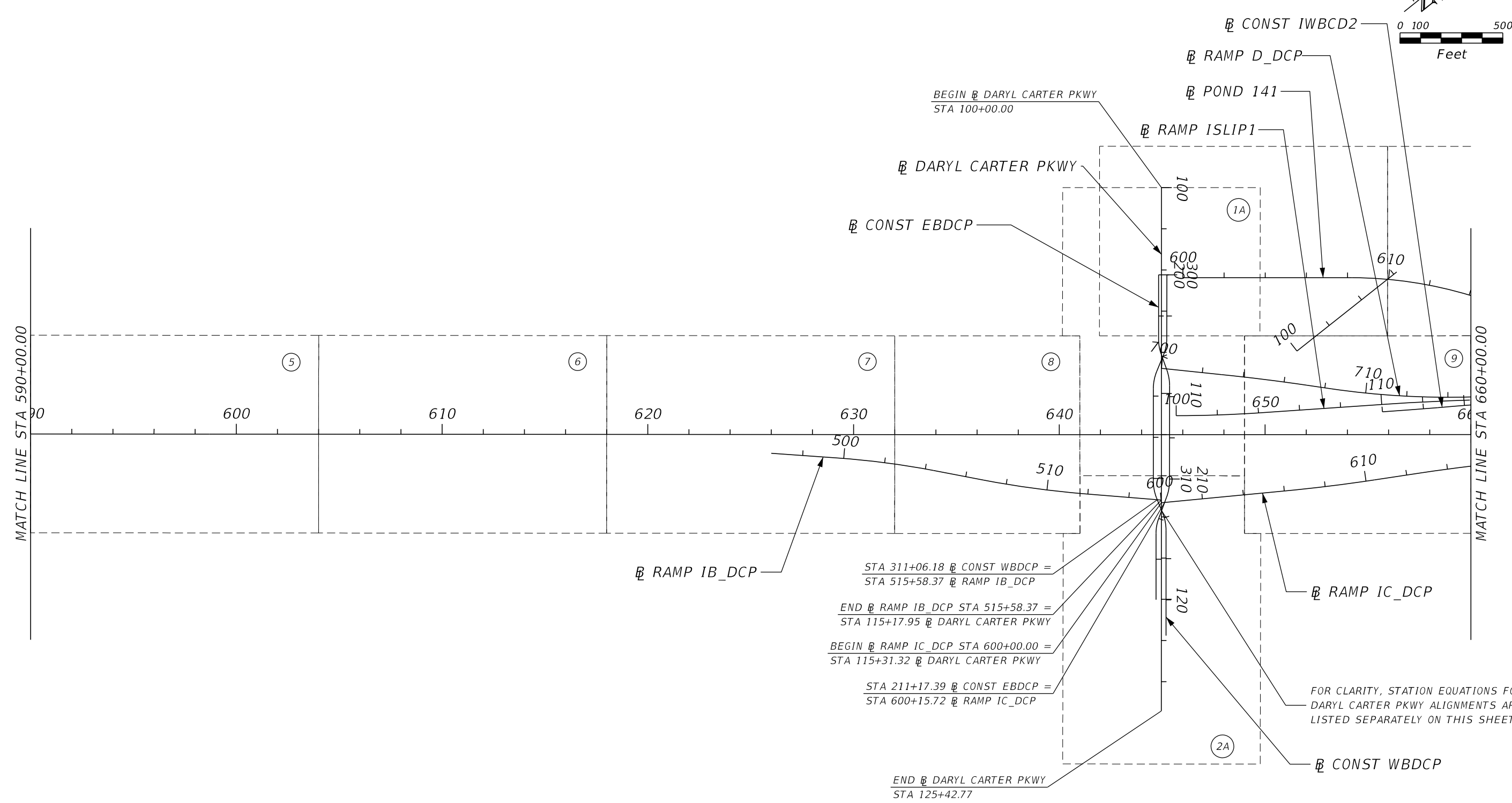
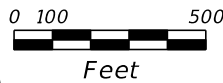
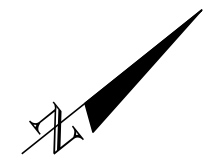
@ RAMP IC1_535

MATCH LINE STA 590+00.00

LEGEND
 PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (1)	SHEET NO. L-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



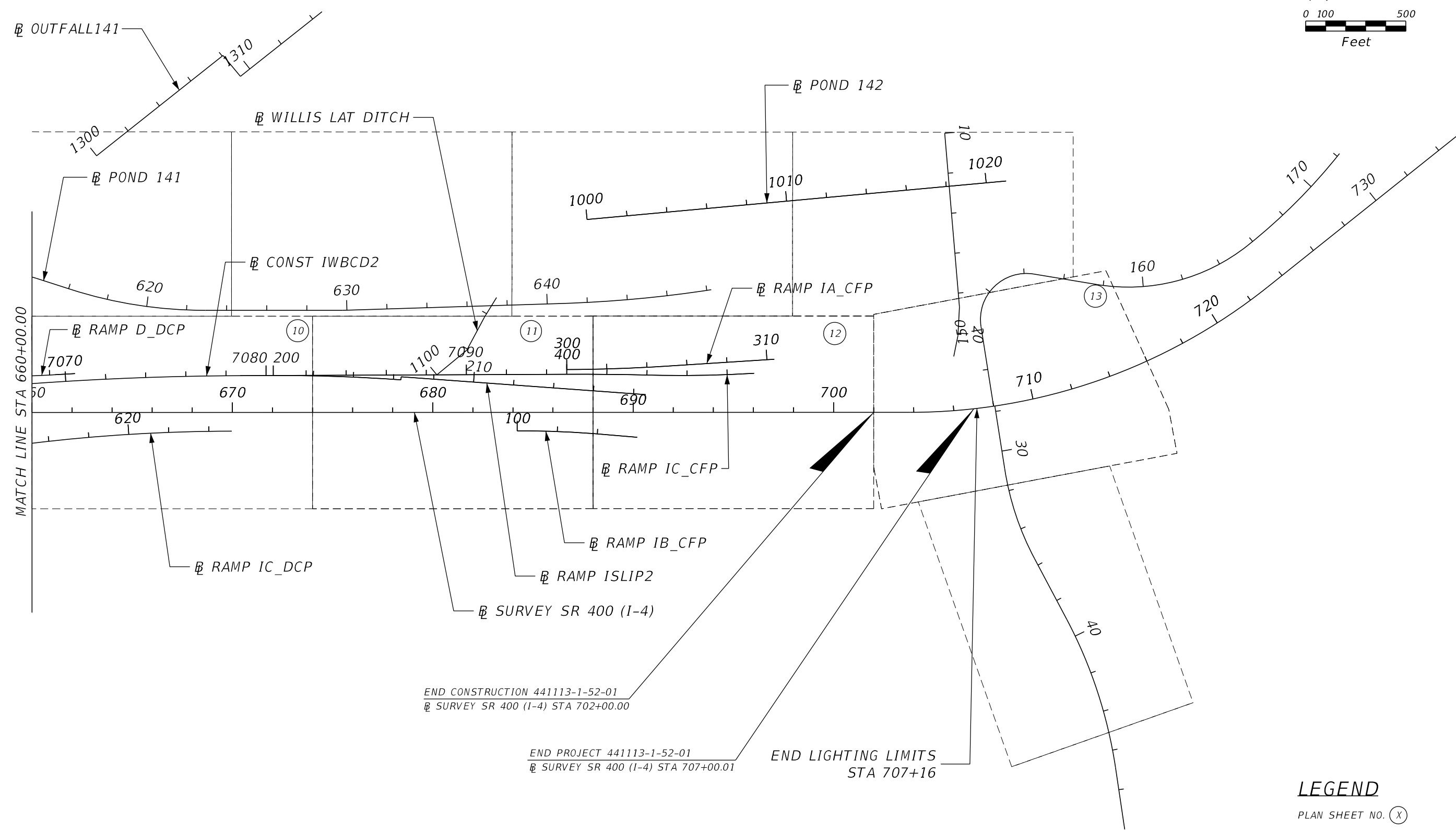
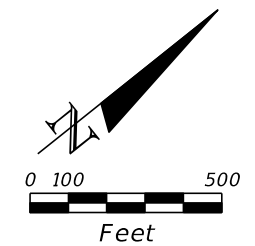
STA 311+06.18 CONST WBCD =
 STA 515+58.37 RAMP IB_DCP
 END RAMP IB_DCP STA 515+58.37 =
 STA 115+17.95 DARYL CARTER PKWY
 BEGIN RAMP IC_DCP STA 600+00.00 =
 STA 115+31.32 DARYL CARTER PKWY
 STA 211+17.39 CONST EBDP =
 STA 600+15.72 RAMP IC_DCP

FOR CLARITY, STATION EQUATIONS FOR DARYL CARTER PKWY ALIGNMENTS ARE LISTED SEPARATELY ON THIS SHEET

LEGEND
PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	ORANGE		441113-1-52-01

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



END CONSTRUCTION 441113-1-52-01
 SURVEY SR 400 (I-4) STA 702+00.00

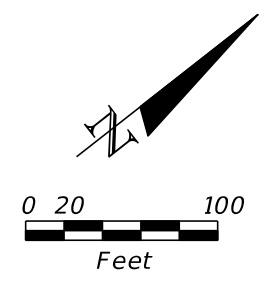
END PROJECT 441113-1-52-01
 SURVEY SR 400 (I-4) STA 707+00.01

END LIGHTING LIMITS
 STA 707+16

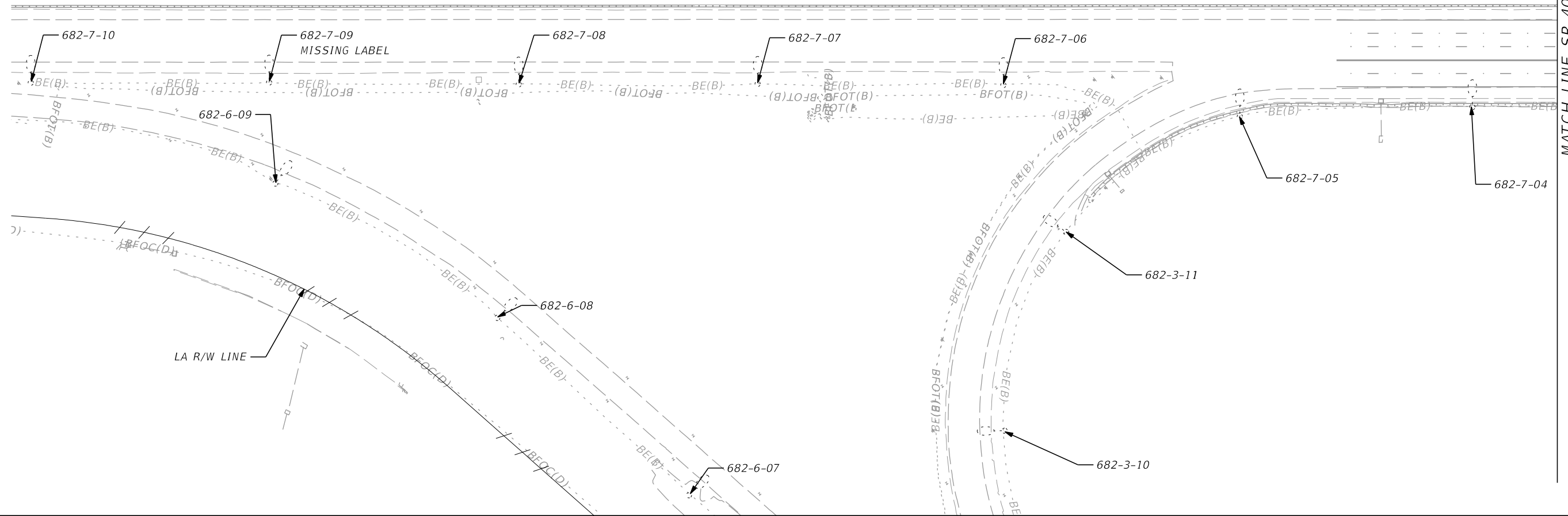
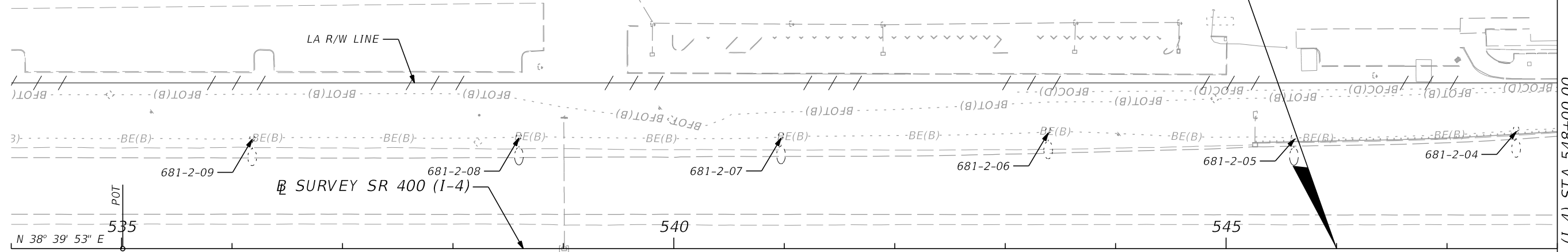
LEGEND
 PLAN SHEET NO. (X)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT (3)	SHEET NO. L-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



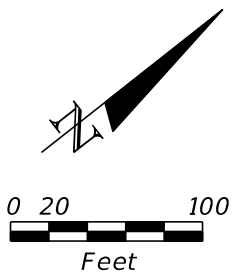
BEGIN PROJECT 441113-1-52-01
 BEGIN CONSTRUCTION 441113-1-52-01
 @ SURVEY SR 400 (I-4) STA 546+00.00



MATCH LINE SR 400 (I-4) STA 548+00.00

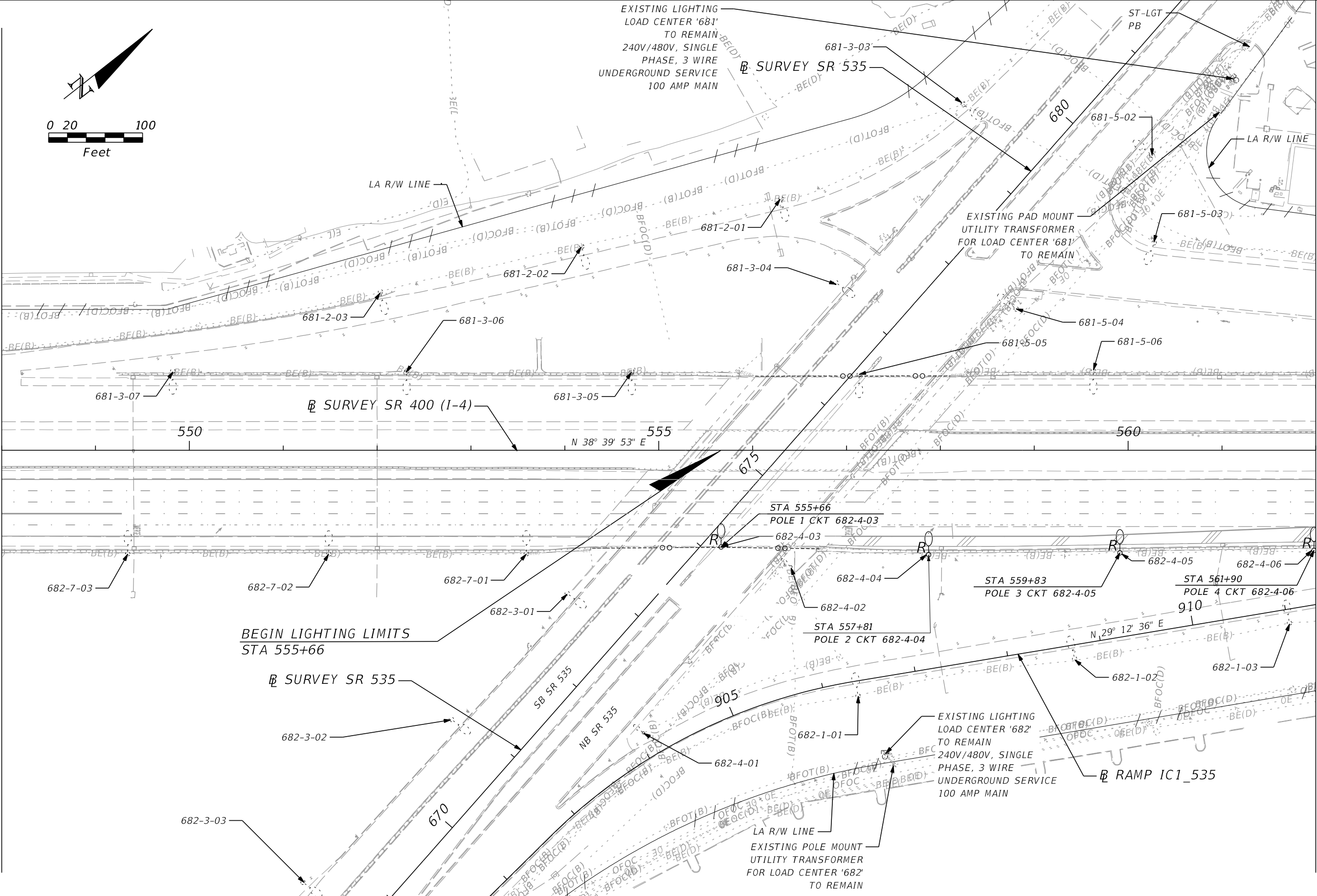
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 1	SHEET NO. L-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 548+00.00

MATCH LINE SR 400 (I-4) STA 562+00.00



BEGIN LIGHTING LIMITS
STA 555+66

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

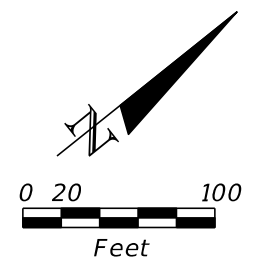
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 2

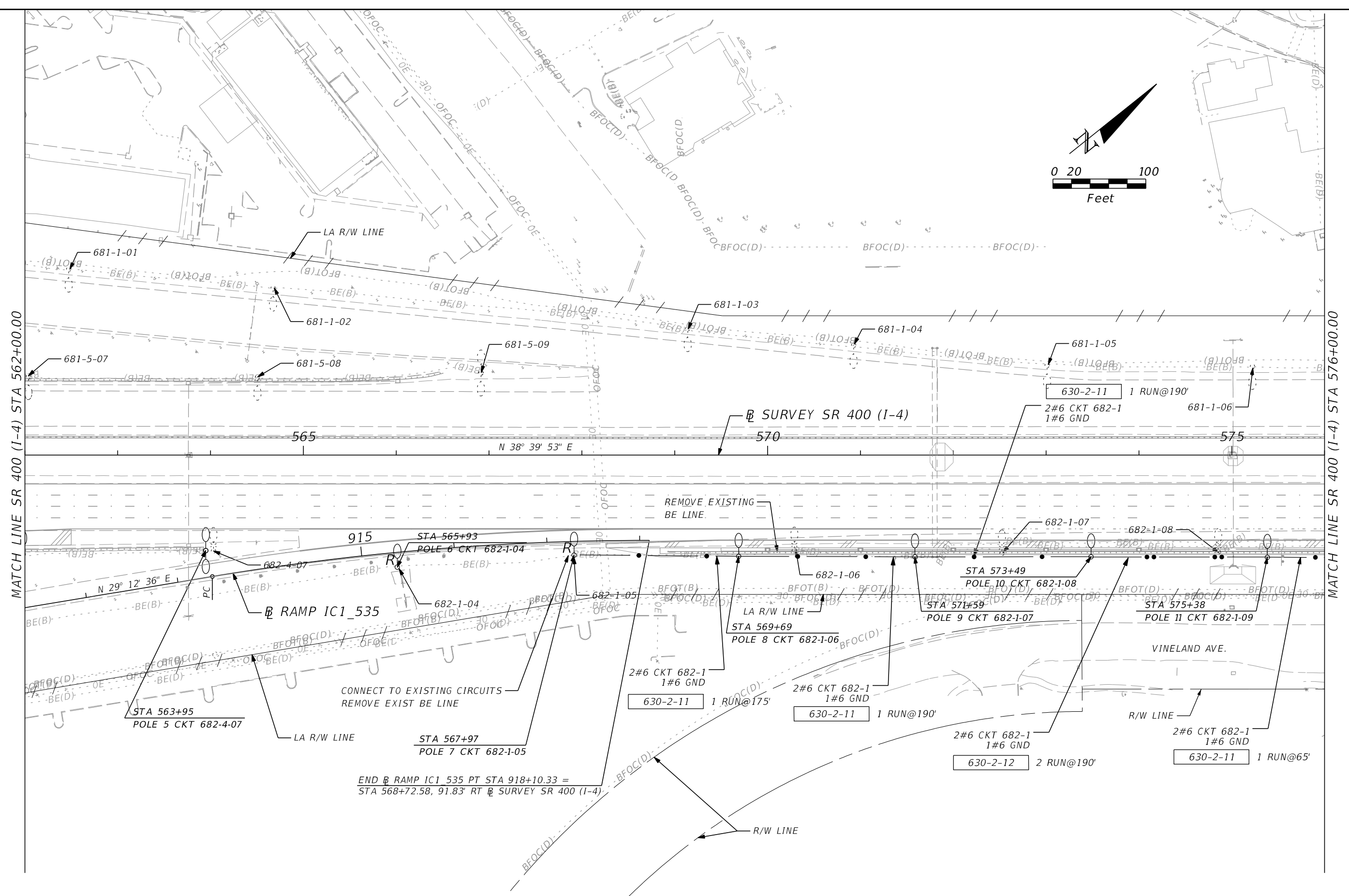
SHEET NO.
L-12

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 562+00.00

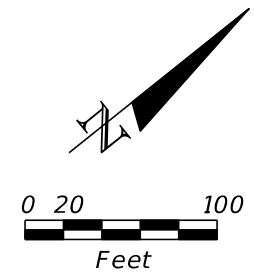
MATCH LINE SR 400 (I-4) STA 576+00.00



END RAMP IC1_535 PT STA 918+10.33 =
 STA 568+72.58, 91.83' RT R SURVEY SR 400 (I-4)

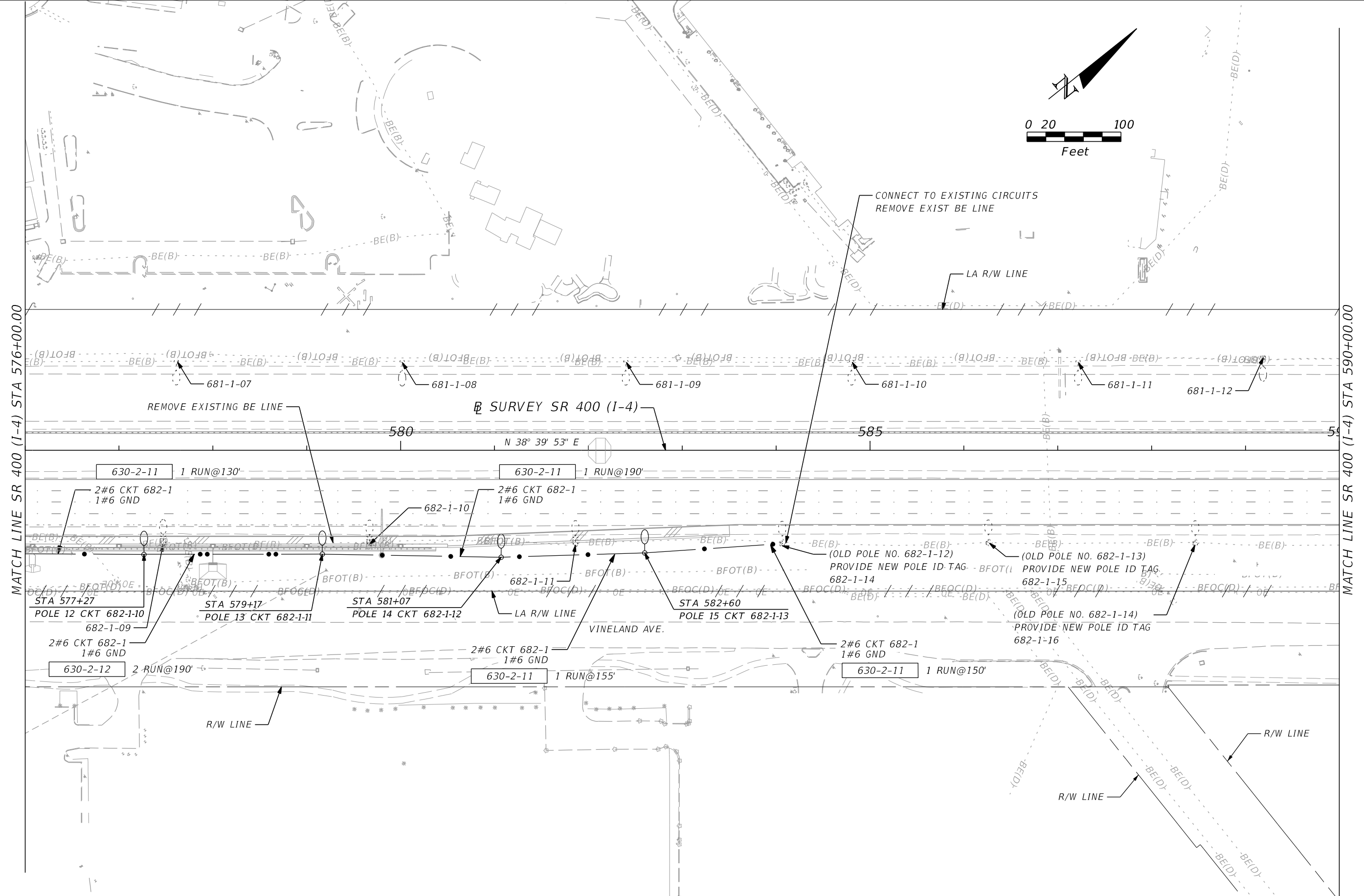
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 3	SHEET NO. L-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 576+00.00

MATCH LINE SR 400 (I-4) STA 590+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

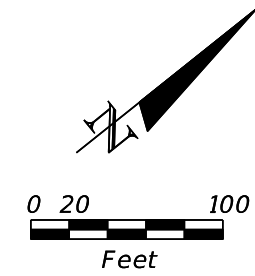
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 4

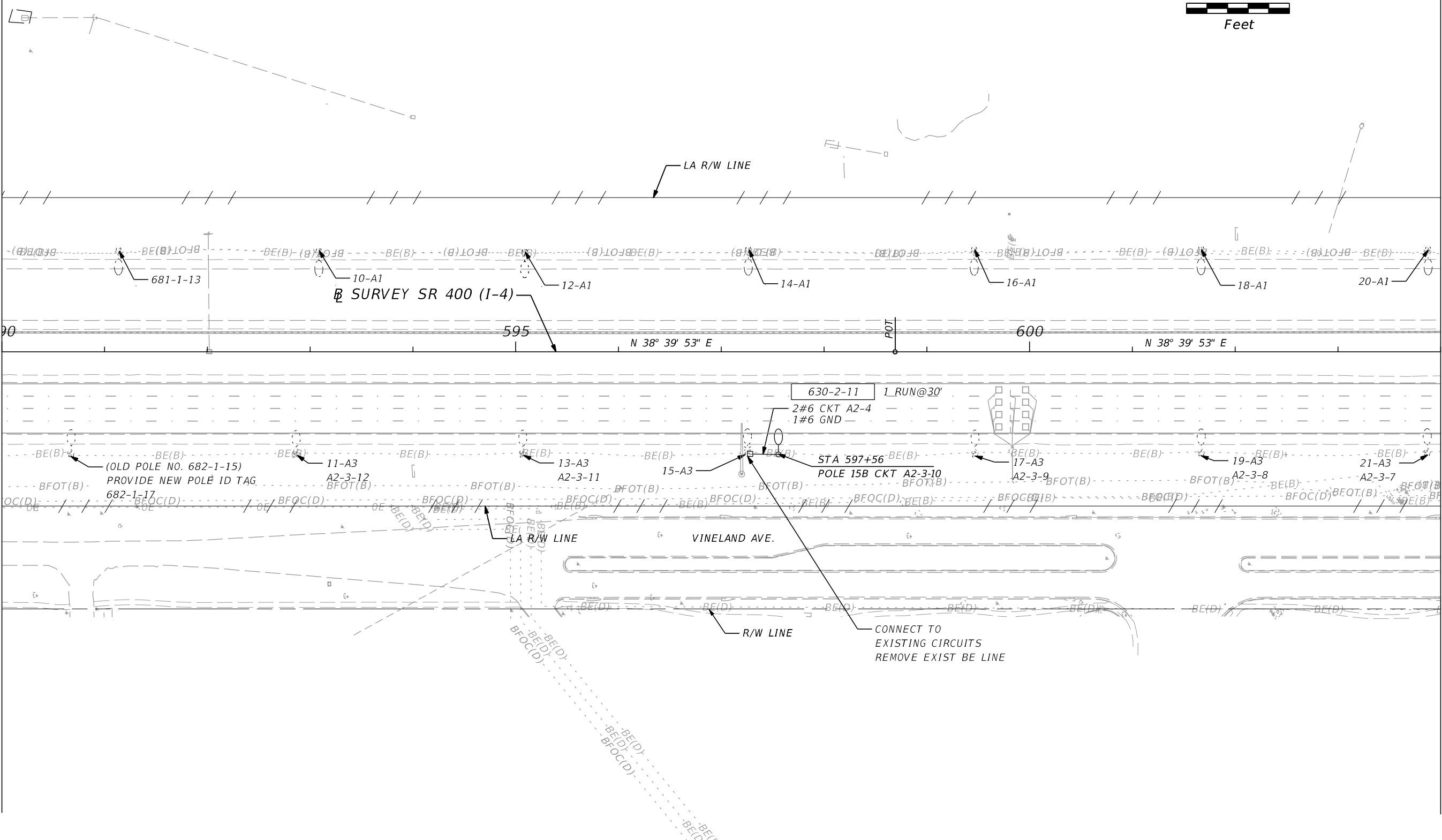
SHEET NO.
L-14

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 590+00.00

MATCH LINE SR 400 (I-4) STA 604+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

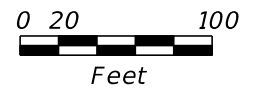
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 5

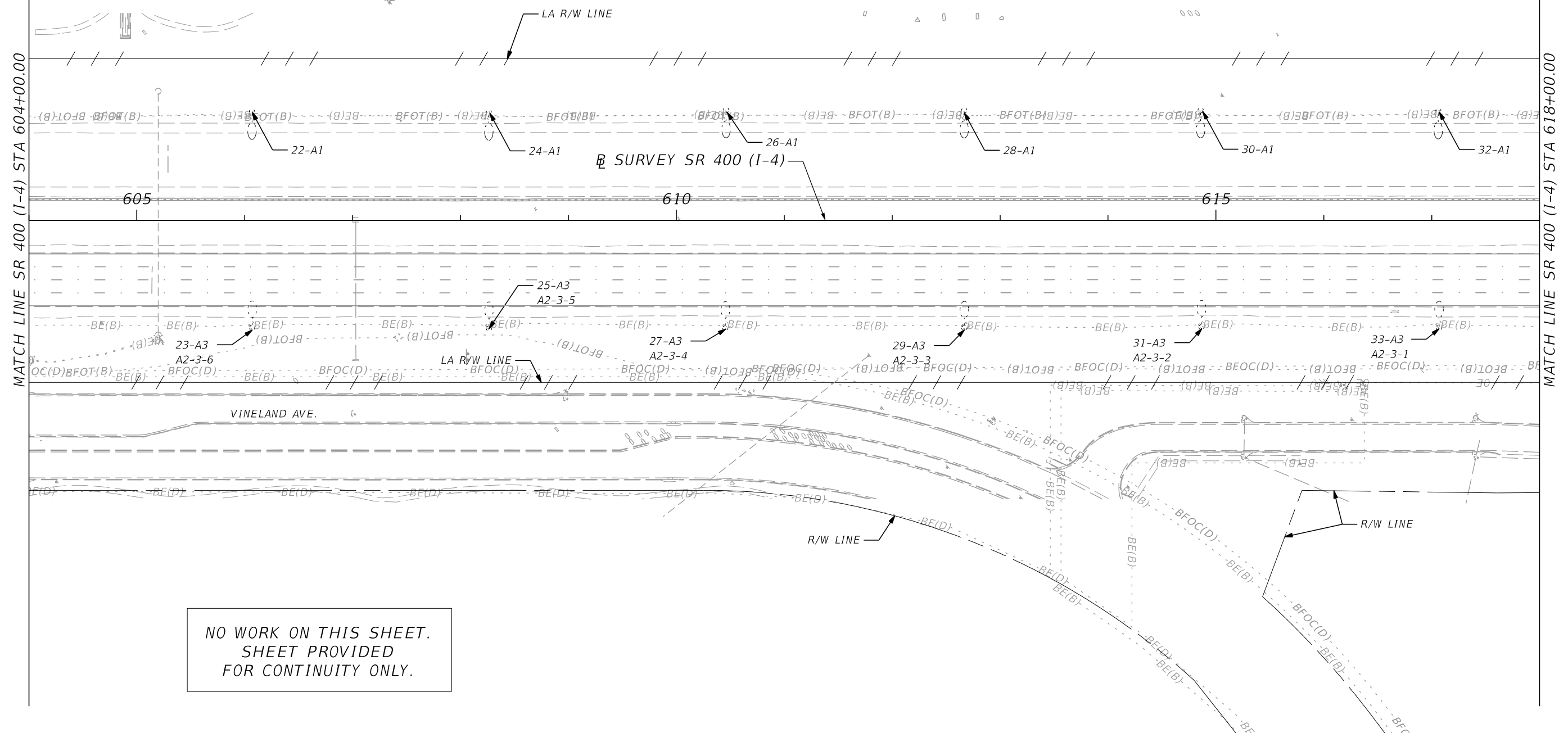
SHEET NO.
L-15

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 604+00.00

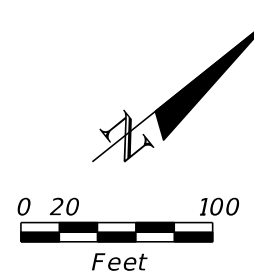
MATCH LINE SR 400 (I-4) STA 618+00.00



NO WORK ON THIS SHEET.
SHEET PROVIDED
FOR CONTINUITY ONLY.

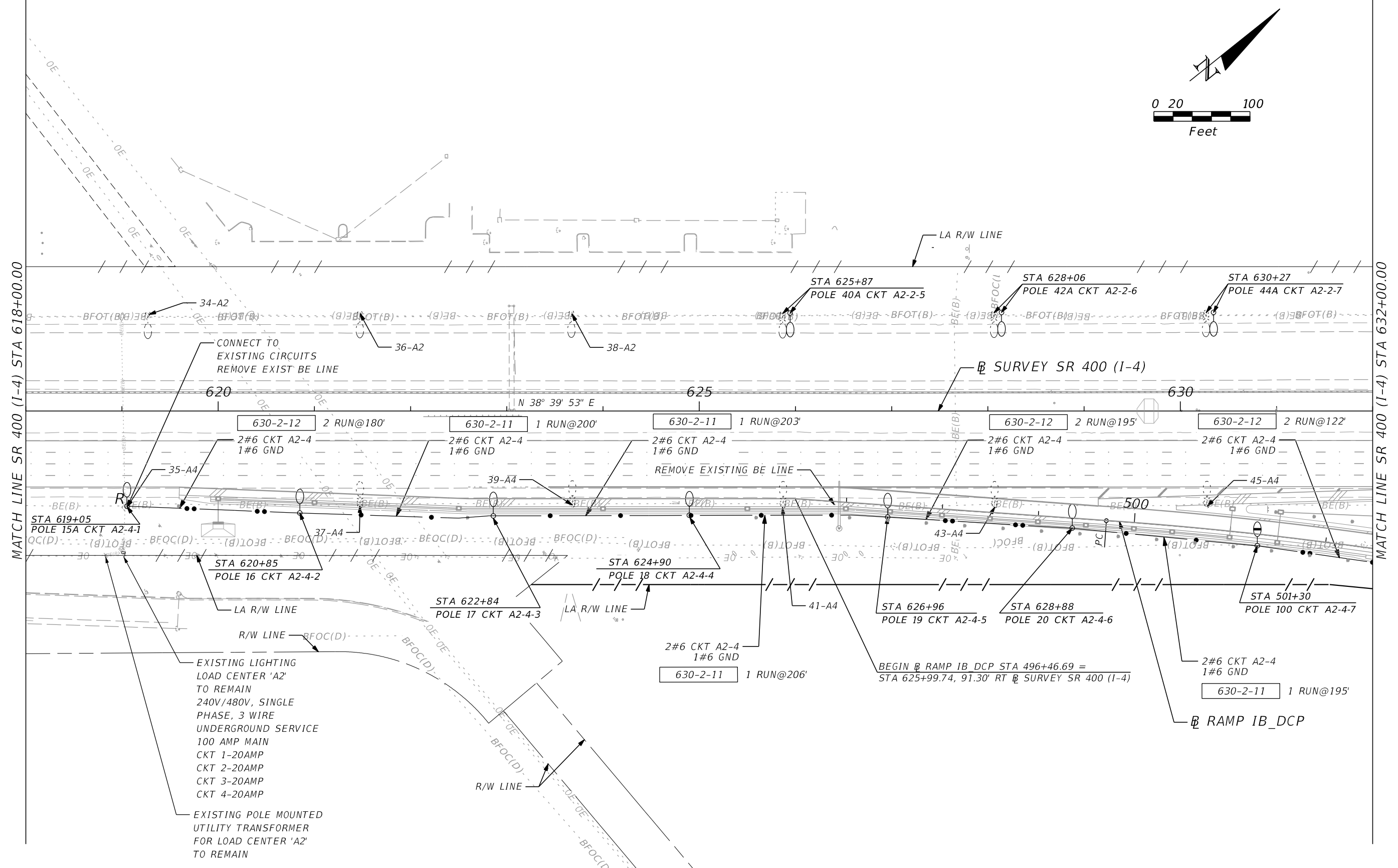
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 6	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-16
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 618+00.00

MATCH LINE SR 400 (I-4) STA 632+00.00



EXISTING LIGHTING
LOAD CENTER 'A2'
TO REMAIN
240V/480V, SINGLE
PHASE, 3 WIRE
UNDERGROUND SERVICE
100 AMP MAIN
CKT 1-20AMP
CKT 2-20AMP
CKT 3-20AMP
CKT 4-20AMP

EXISTING POLE MOUNTED
UTILITY TRANSFORMER
FOR LOAD CENTER 'A2'
TO REMAIN

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

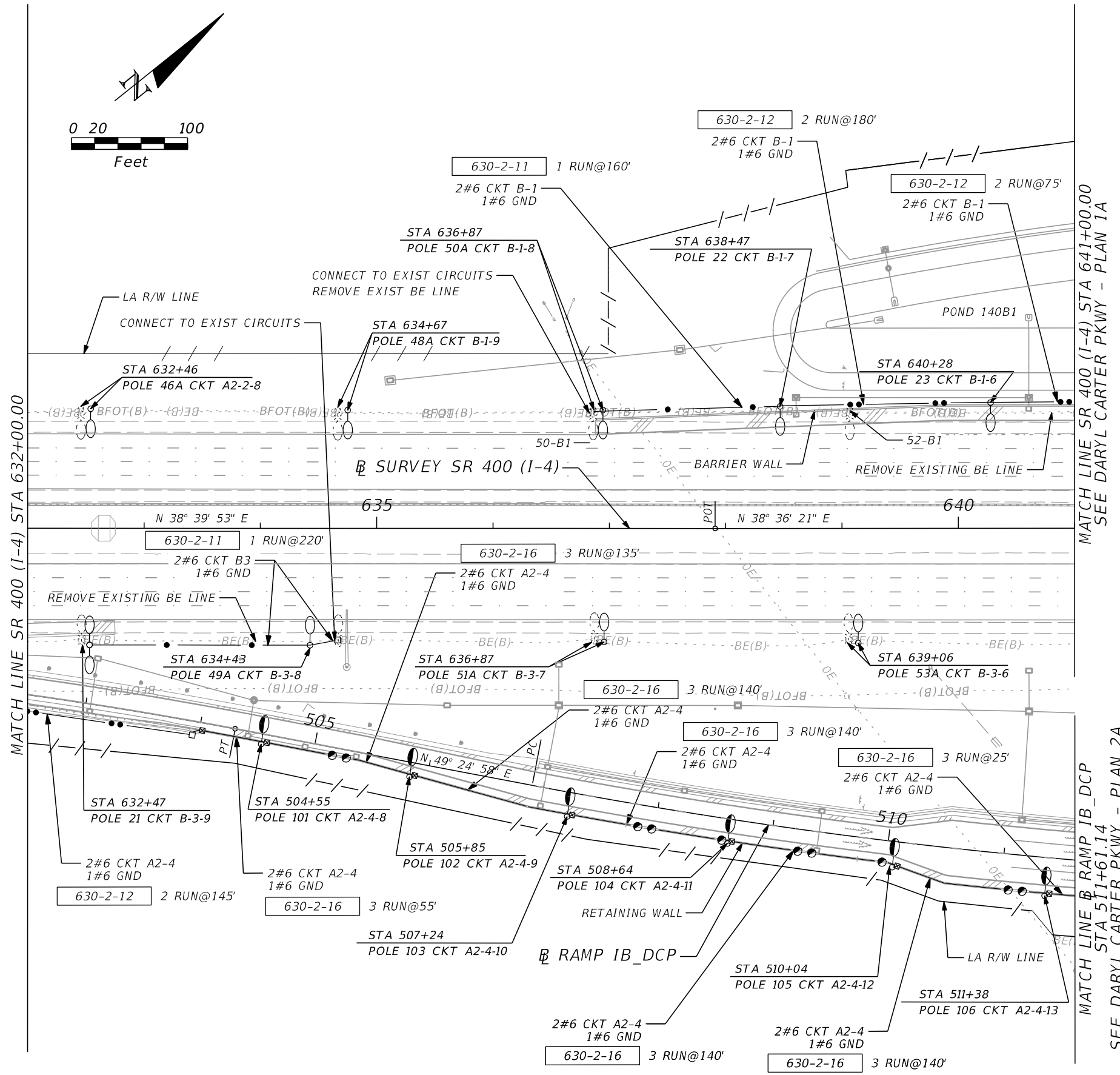
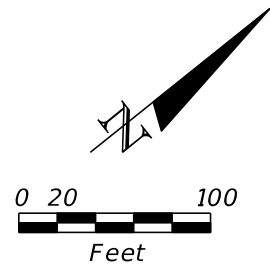
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 7

SHEET NO.
L-17

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 641+00.00
SEE DARYL CARTER PKWY - PLAN 1A

MATCH LINE RAMP IB_DCP STA 511+61.14
SEE DARYL CARTER PKWY - PLAN 2A

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

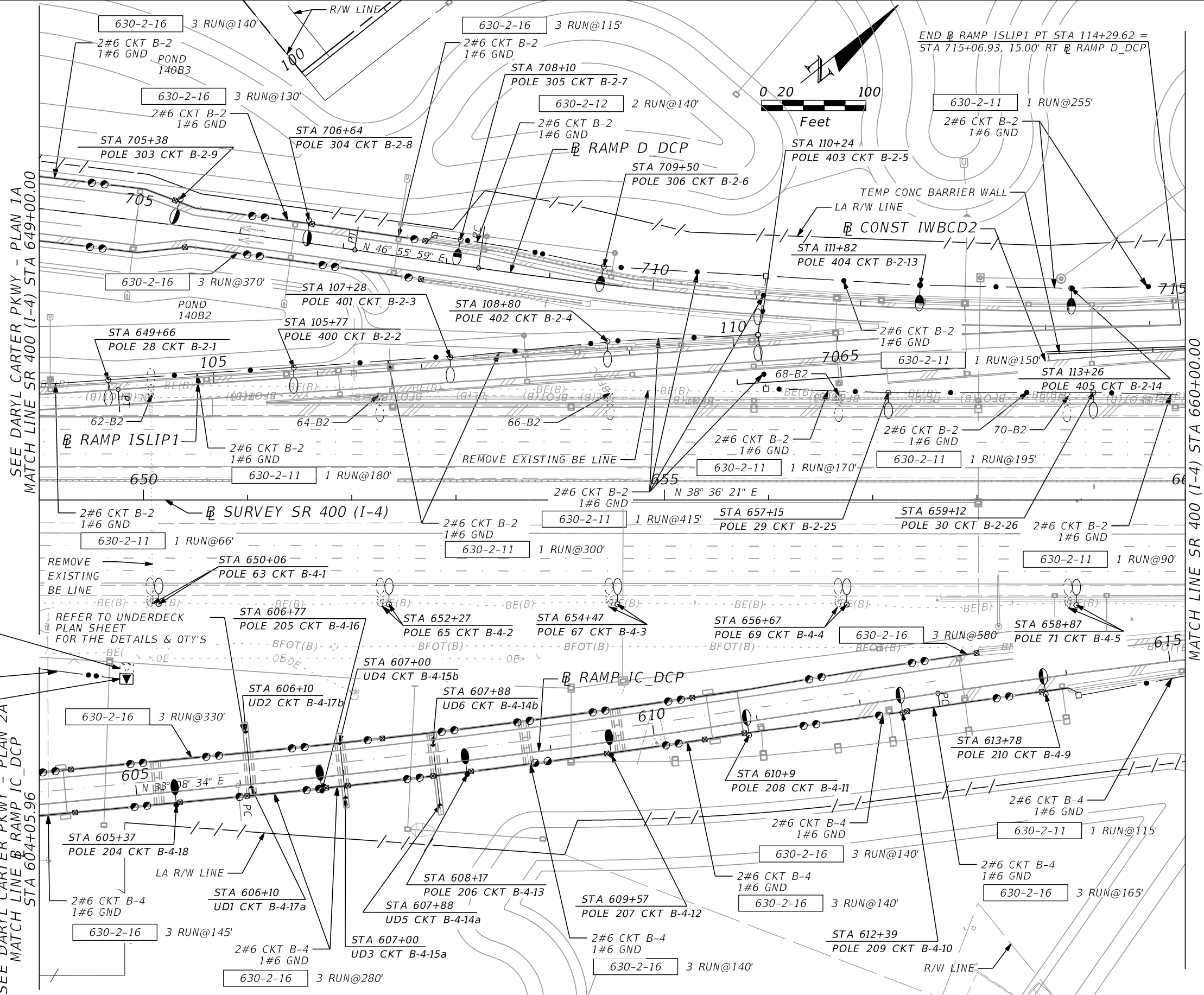
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 8

SHEET NO.
L-18

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SEE DARYL CARTER PKWY - PLAN 1A
MATCH LINE SR 400 (I-4) STA 649+00.00

SEE DARYL CARTER PKWY - PLAN 2A
MATCH LINE RAMP IC_DCP
STA 604+05.96

MATCH LINE SR 400 (I-4) STA 660+00.00

EXISTING PAD MOUNT UTILITY
TRANSFORMER FOR LOAD CENTER 'B'.
TO BE REMOVED. BY DUKE ENERGY.

630-2-12 2 RUN@100'
639-2-1 3 RUN@100'
2#2 FEEDER CKT
1#2 GND

NEW 25KVA PAD MOUNT UTILITY
TRANSFORMER FOR LOAD CENTER 'B'
TO BE PROVIDED. BY DUKE ENERGY.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

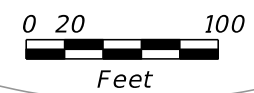
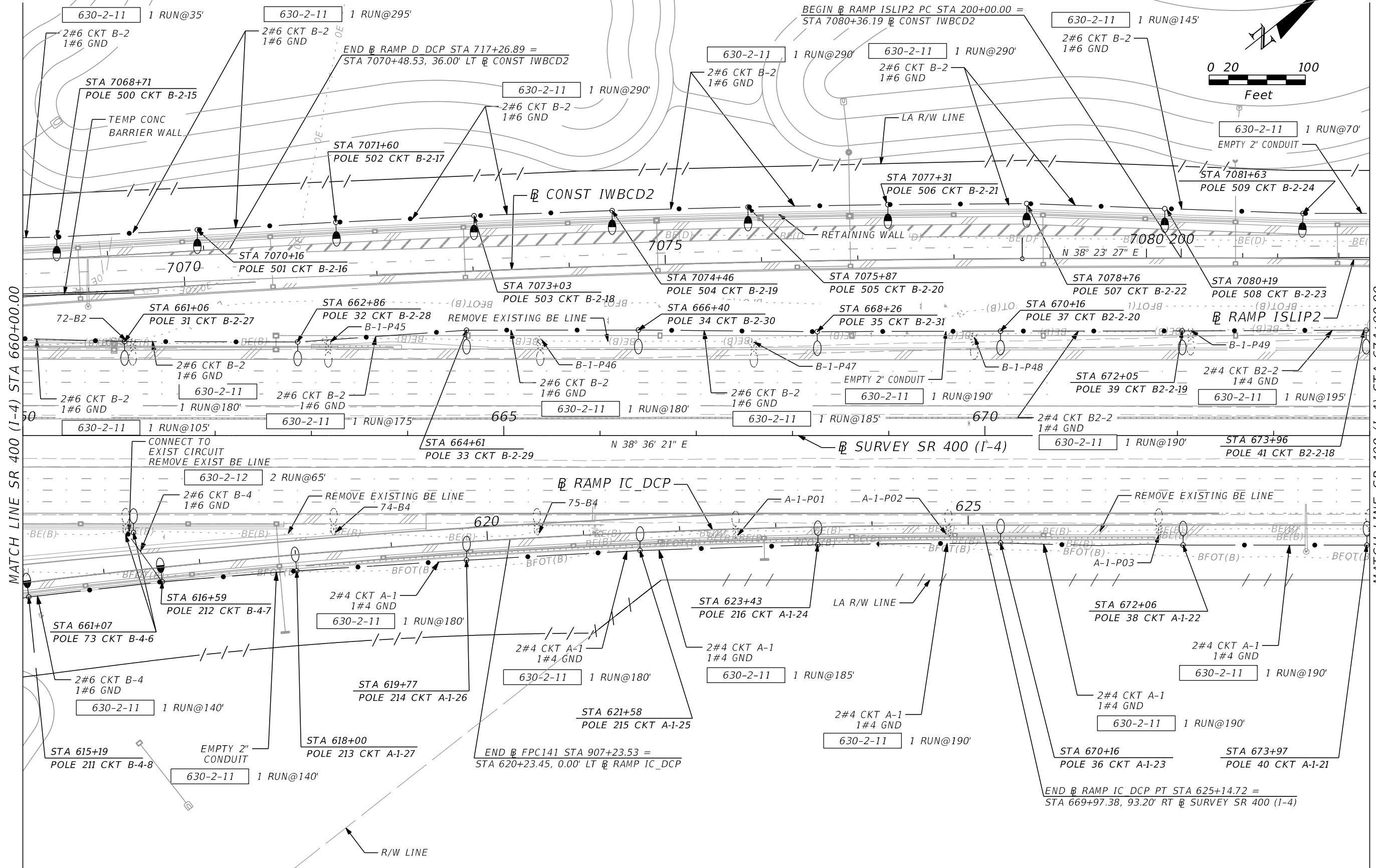
SR 400 (I-4) - PLAN 9

SHEET NO.
L-19

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

MATCH LINE SR 400 (I-4) STA 660+00.00

MATCH LINE SR 400 (I-4) STA 674+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

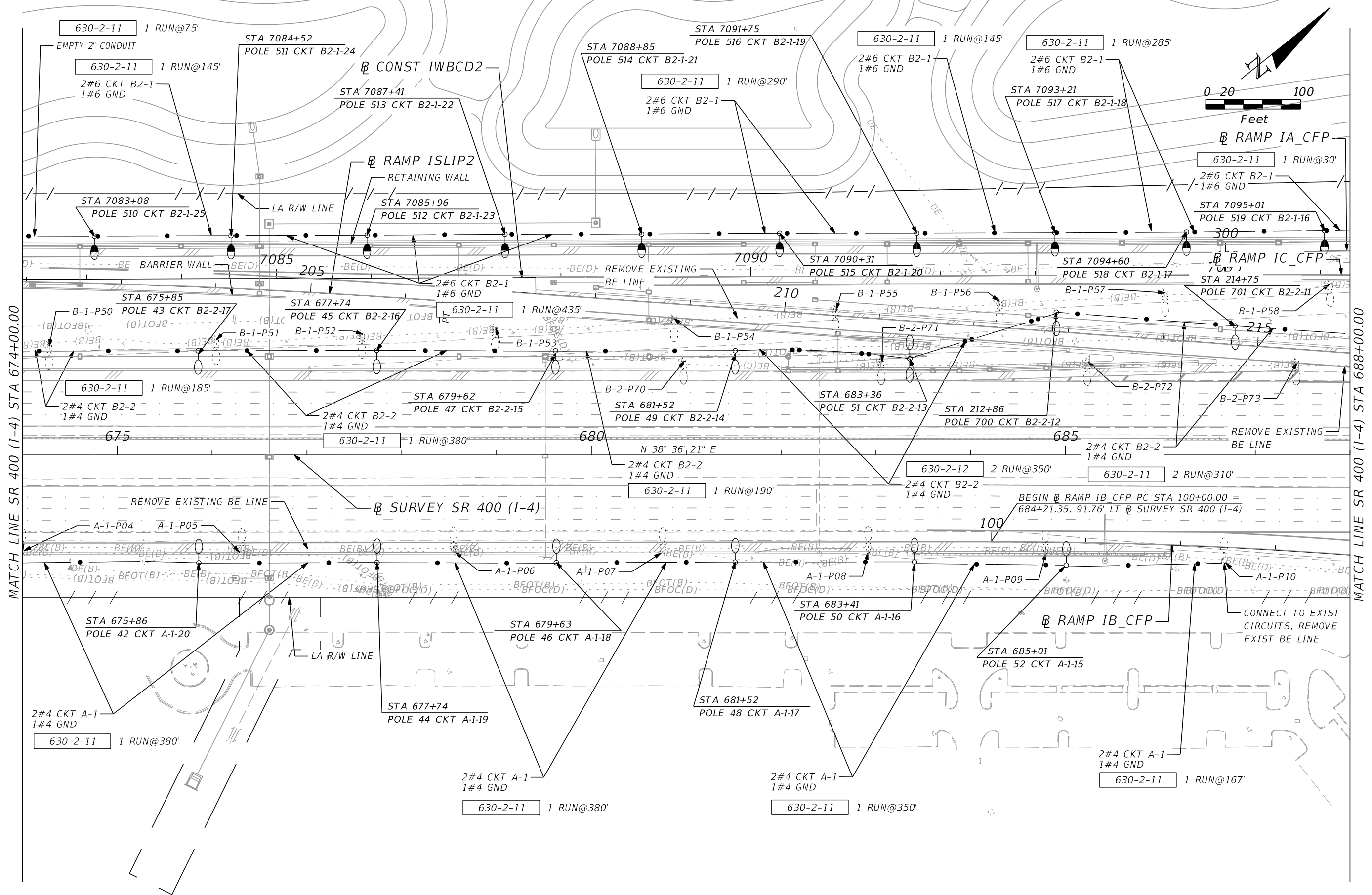
ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 10

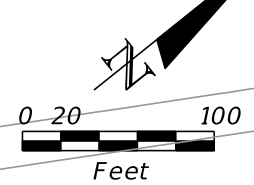
SHEET NO.
L-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



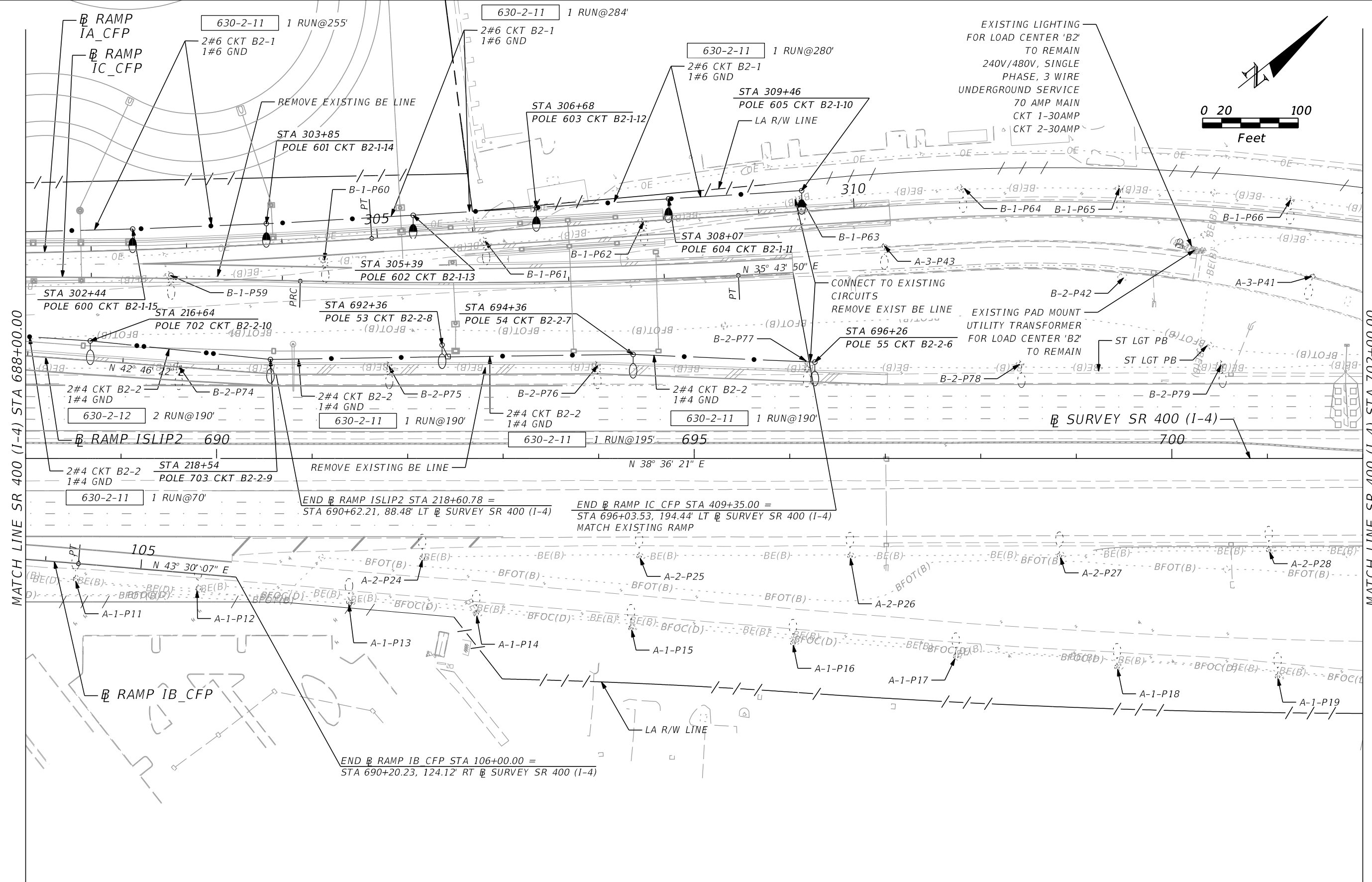
MATCH LINE SR 400 (I-4) STA 674+00.00

MATCH LINE SR 400 (I-4) STA 688+00.00



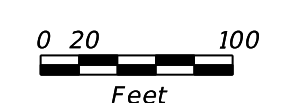
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SR 400 (I-4) - PLAN 11	SHEET NO. L-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE SR 400 (I-4) STA 688+00.00

MATCH LINE SR 400 (I-4) STA 702+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

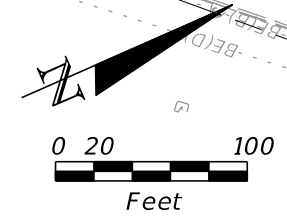
ALEXIS MOUSADI, P.E.
P.E. LICENSE NUMBER 50764
AECOM TECHNICAL SERVICES, INC.
150 N. ORANGE AVENUE, SUITE 200
ORLANDO, FL 32801

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 12

SHEET NO.
L-22

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

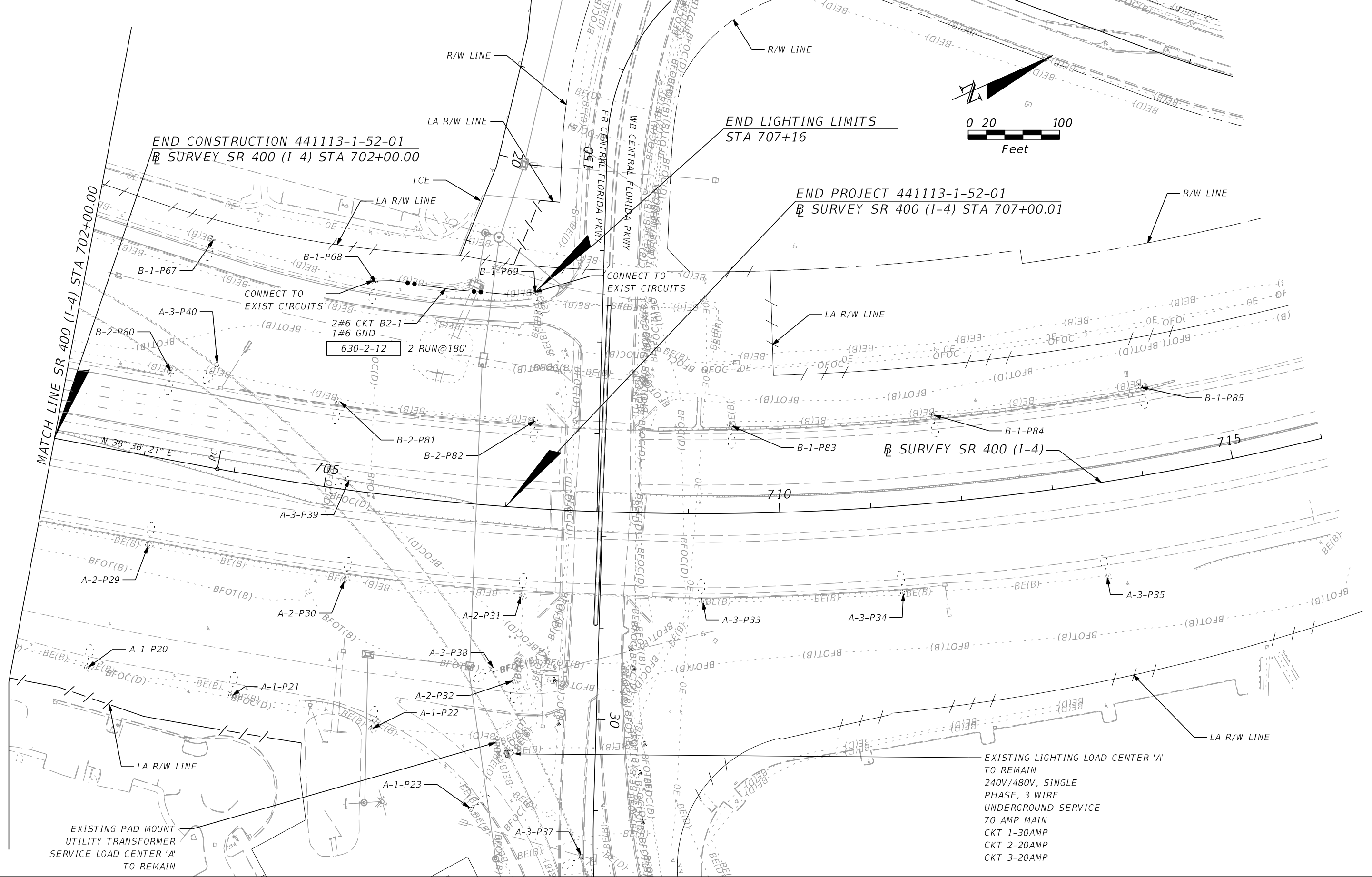


END CONSTRUCTION 441113-1-52-01
 SURVEY SR 400 (I-4) STA 702+00.00

END LIGHTING LIMITS
 STA 707+16

END PROJECT 441113-1-52-01
 SURVEY SR 400 (I-4) STA 707+00.01

MATCH LINE SR 400 (I-4) STA 702+00.00



EXISTING LIGHTING LOAD CENTER 'A'
 TO REMAIN
 240V/480V, SINGLE
 PHASE, 3 WIRE
 UNDERGROUND SERVICE
 70 AMP MAIN
 CKT 1-30AMP
 CKT 2-20AMP
 CKT 3-20AMP

REVISIONS	
DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801

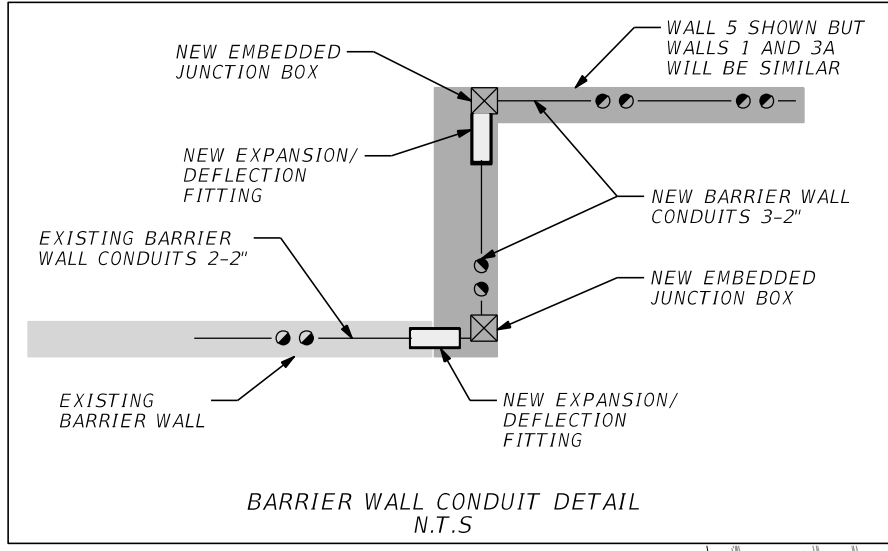
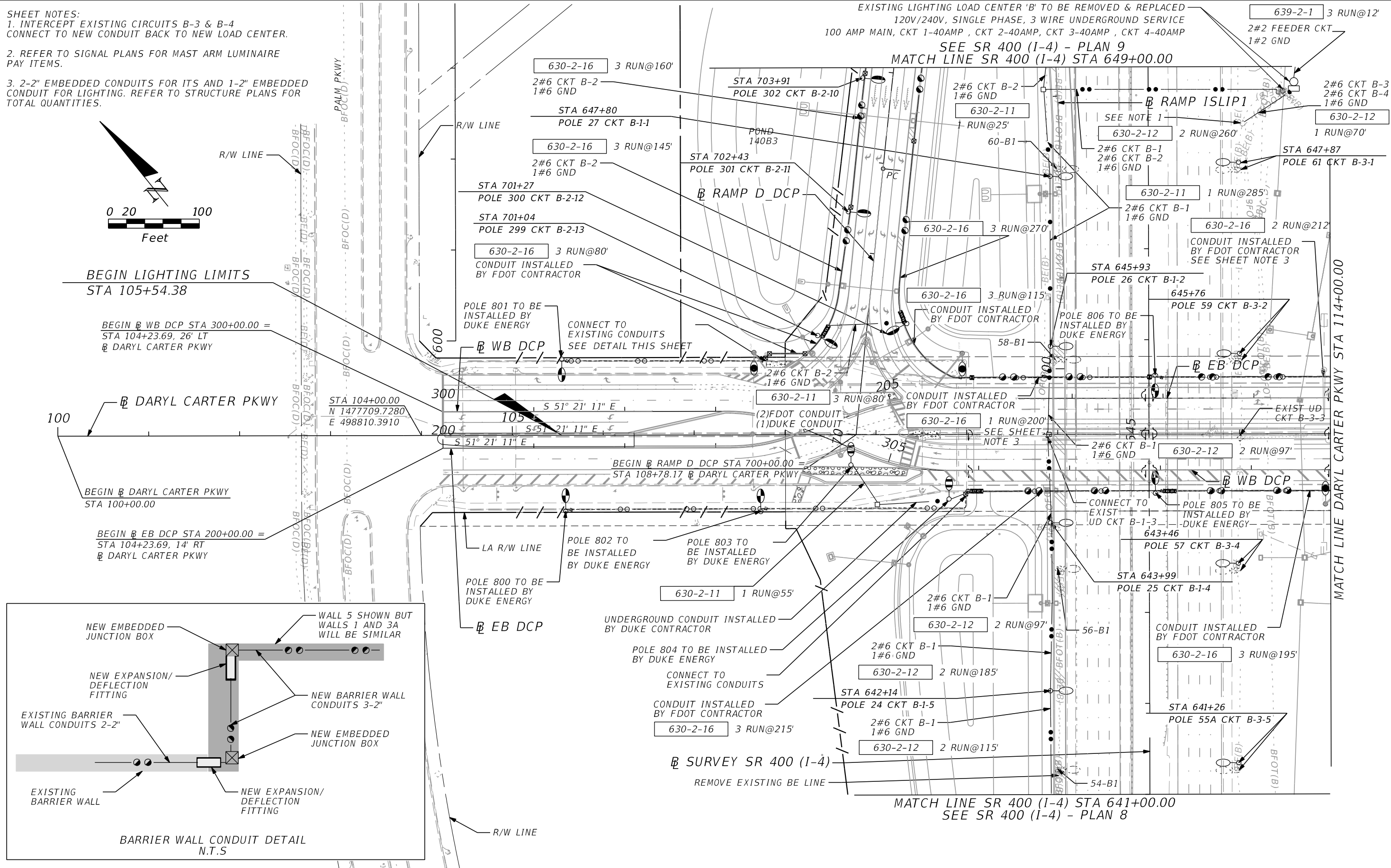
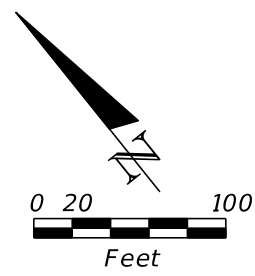
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

SR 400 (I-4) - PLAN 13

SHEET NO.
 L-23

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SHEET NOTES:
 1. INTERCEPT EXISTING CIRCUITS B-3 & B-4 CONNECT TO NEW CONDUIT BACK TO NEW LOAD CENTER.
 2. REFER TO SIGNAL PLANS FOR MAST ARM LUMINAIRE PAY ITEMS.
 3. 2-2" EMBEDDED CONDUITS FOR ITS AND 1-2" EMBEDDED CONDUIT FOR LIGHTING. REFER TO STRUCTURE PLANS FOR TOTAL QUANTITIES.



REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ALEXIS MOUSADI, P.E.
 P.E. LICENSE NUMBER 50764
 AECOM TECHNICAL SERVICES, INC.
 150 N. ORANGE AVENUE, SUITE 200
 ORLANDO, FL 32801

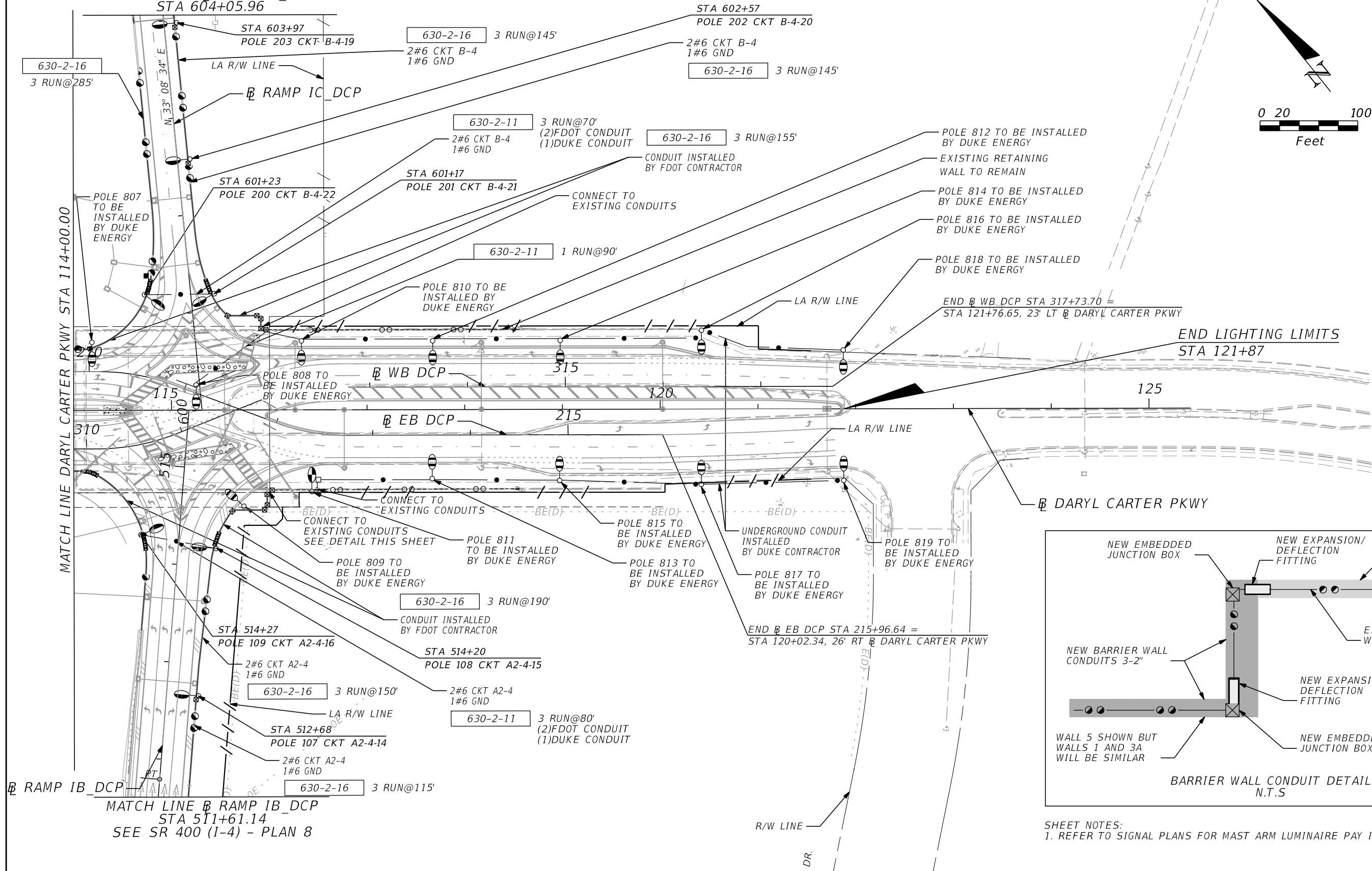
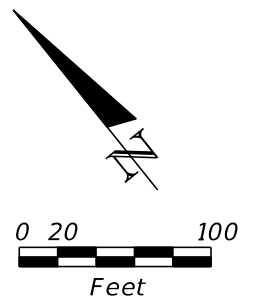
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

DARYL CARTER PKWY - PLAN 1A

SHEET NO.
L-24

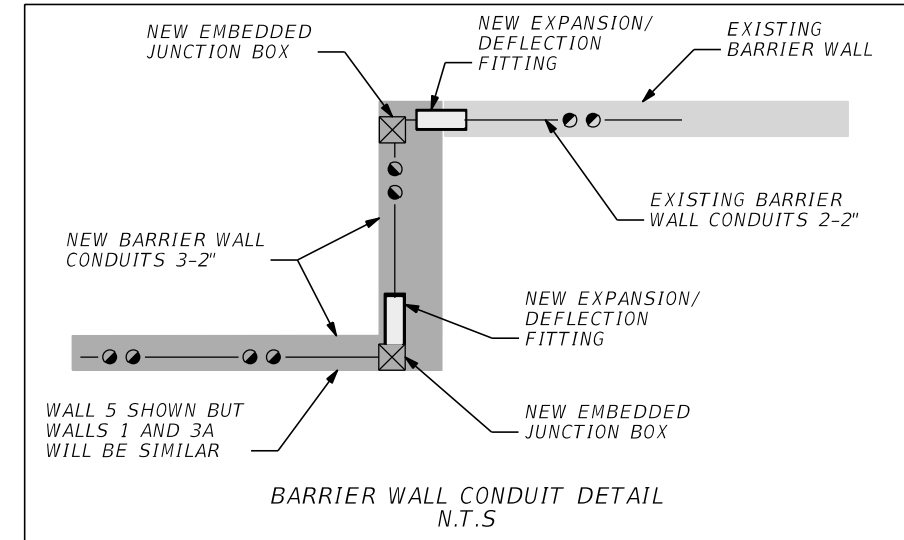
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SEE SR 400 (I-4) - PLAN 9
MATCH LINE @ RAMP IC_DCP
STA 604+05.96



MATCH LINE DARYL CARTER PKWY STA 114+00.00

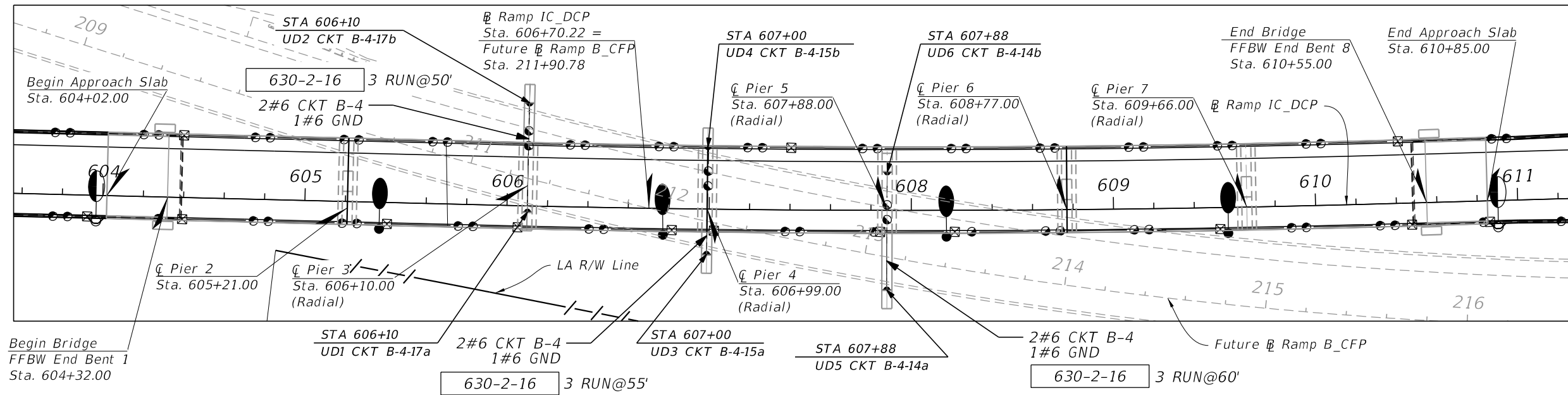
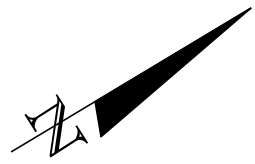
MATCH LINE @ RAMP IB_DCP
STA 511+61.14
SEE SR 400 (I-4) - PLAN 8



SHEET NOTES:
1. REFER TO SIGNAL PLANS FOR MAST ARM LUMINAIRE PAY ITEMS.

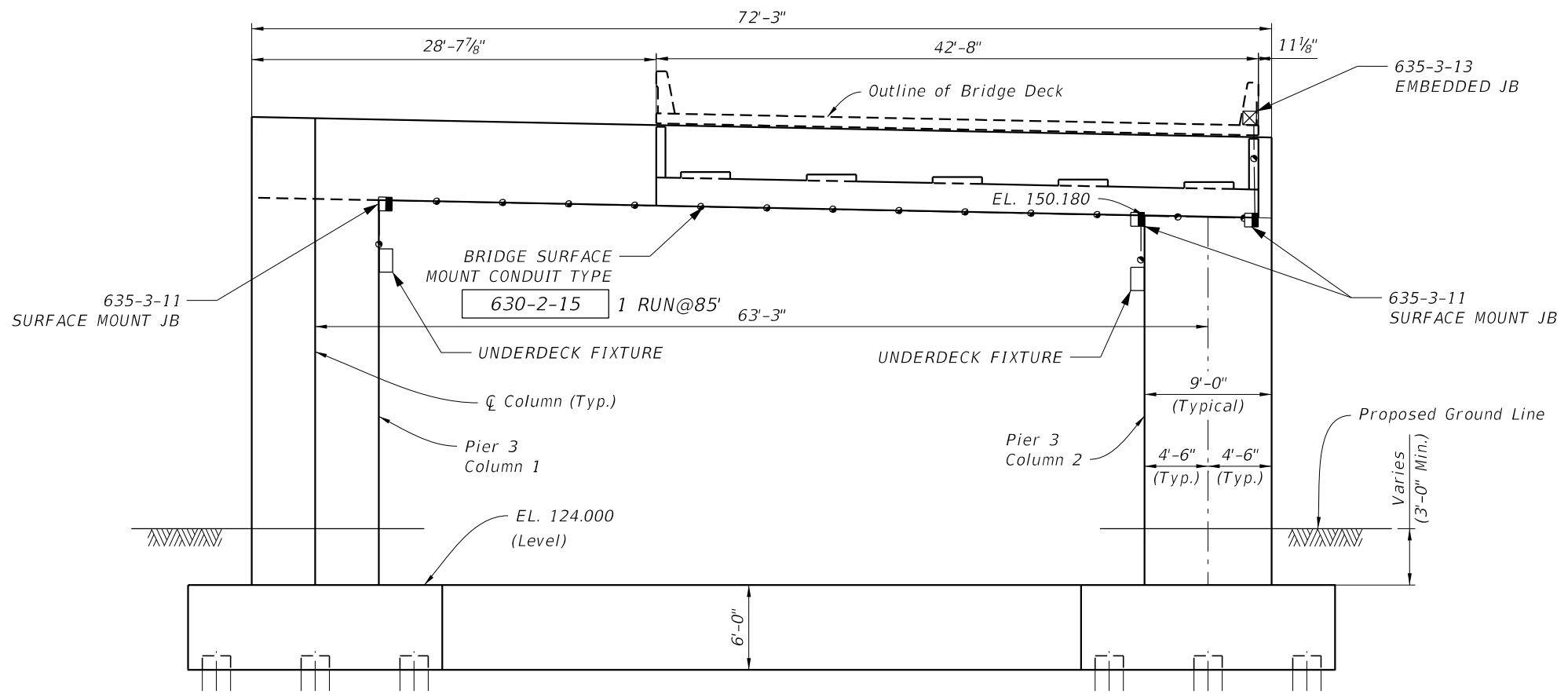
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DARYL CARTER PKWY - PLAN 2A	SHEET NO. L-25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



PLAN VIEW
SCALE: 1" = 60'

SHEET NOTES:
1. REFER TO SHEET L-19 AND L-25 FOR BRIDGE MOUNT AND WALL MOUNT POLE QTY'S.
2. PIER 3 SHOWN ELEVATION VIEW, FOR PIER 4 AND 5 SIMILAR INSTALLATION REQUIRED.



ELEVATION VIEW (PIER 3)

REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UNDERDECK LIGHTING PLAN	SHEET NO. L-26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	441113-1-52-01		

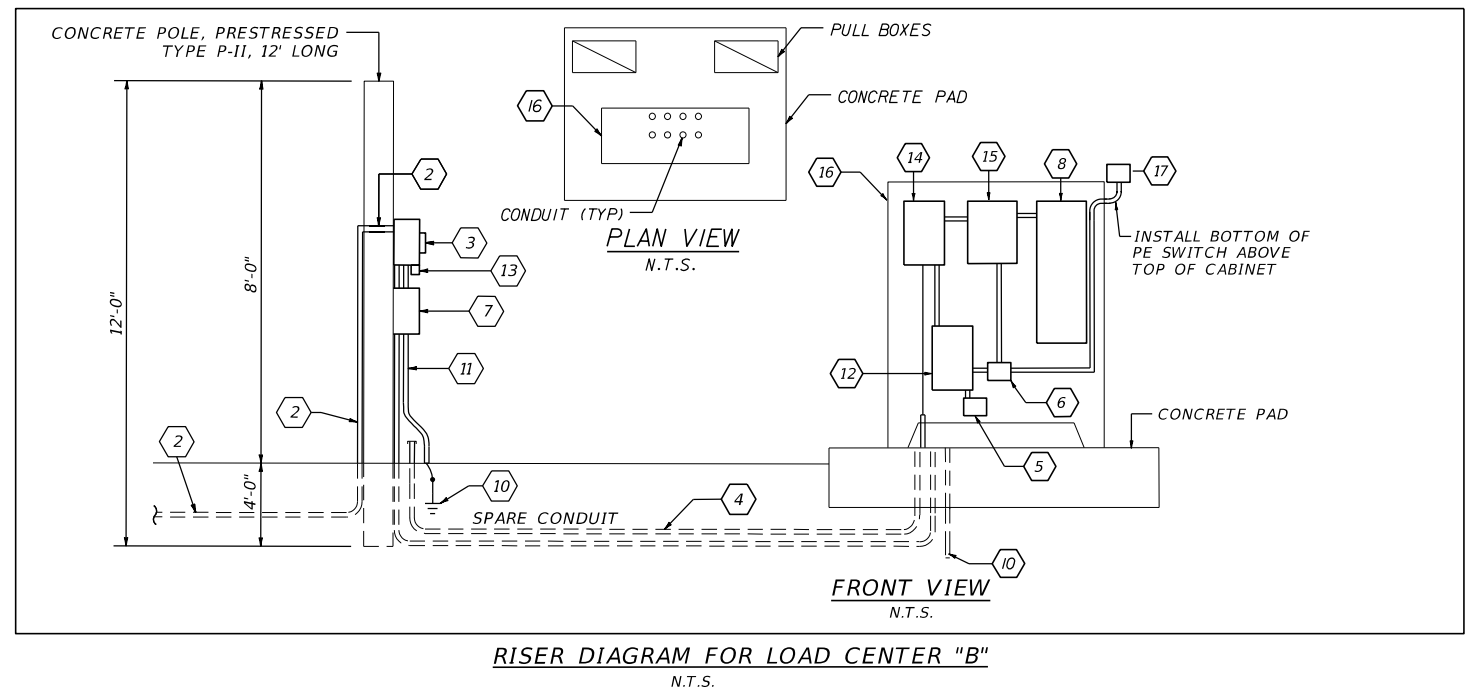
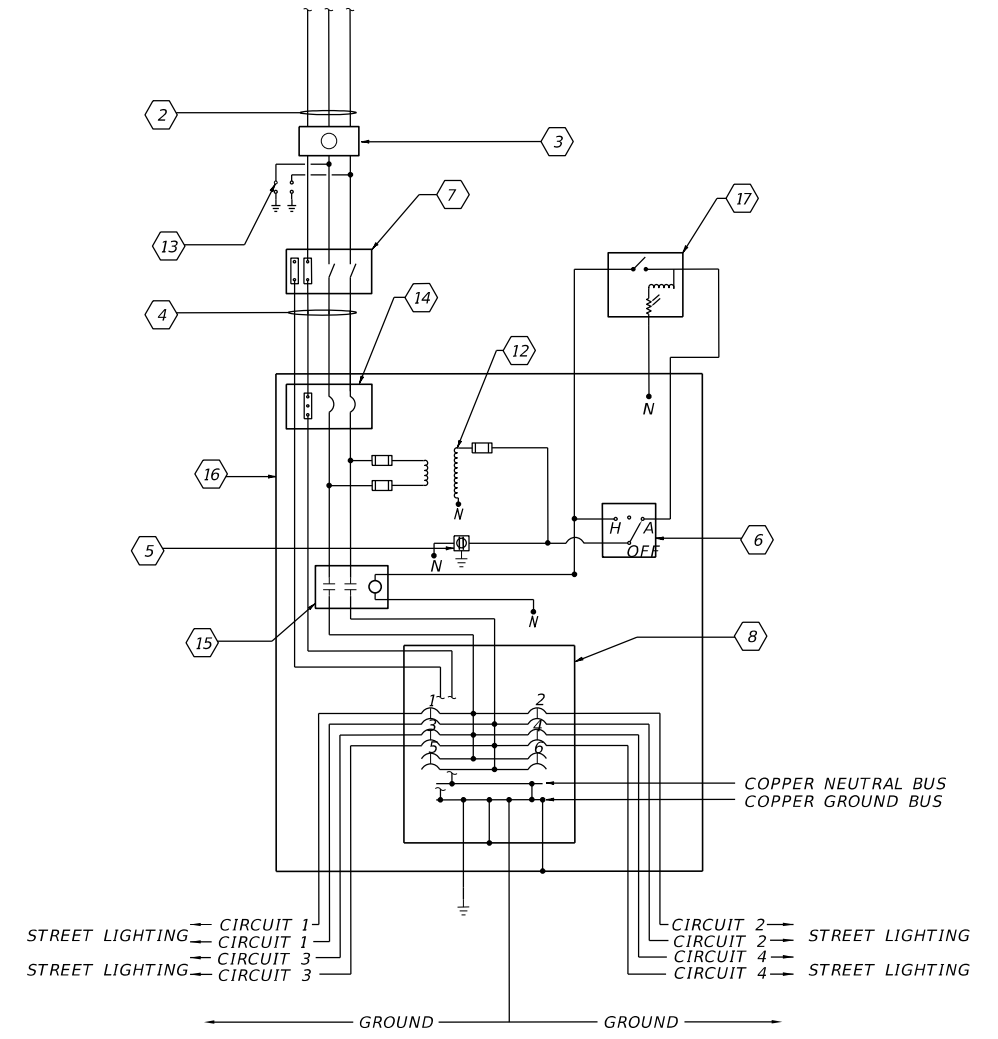
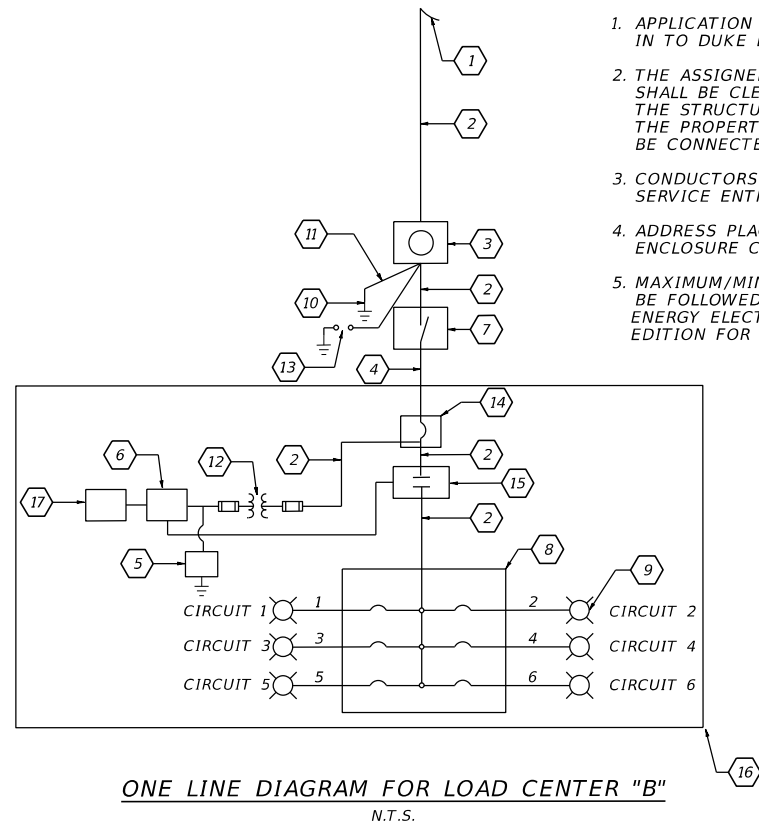
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

KEYED NOTES: APPLY FOR LOAD CENTER "B"

- 1 SINGLE PHASE, 240/480V, 3-WIRE UNDERGROUND SERVICE, COORDINATE WITH DUKE ENERGY.
- 2 2#2 AWG SERVICE-ENTRANCE PHASE CONDUCTORS AND 1#2 AWG GROUNDED SERVICE CONDUCTOR IN 2-1/2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS.
- 3 METER SOCKET BY CONTRACTOR, METER BY DUKE ENERGY.
- 4 2#2 AWG SERVICE-ENTRANCE PHASE CONDUCTORS, 1#2 AWG GROUNDED SERVICE CONDUCTOR AND 1#2 AWG EQUIPMENT GROUND CONDUCTOR IN 2-1/2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS.
- 5 NEMA 5-15R GFI DUPLEX RECEPTACLE WITH WP BOX & COVER
- 6 HAND-OFF AUTO SELECTOR SWITCH PART OF LIGHTING CONTACTOR
- 7 100A, 480V, 2-POLE S/N HEAVY DUTY NEMA 3R FUSED SAFETY SWITCH, RK5 TYPE FUSED AT 100A.
- 8 240/480V, 3 WIRE, M.L.O. 100 AMP PANEL WITH 2 POLE, 35,000 A.I.C. BRANCH CIRCUIT BREAKERS IN A NEMA 1 ENCLOSURE.
- 9 ROADWAY LUMINAIRE CONNECTED TO CIRCUIT.
- 10 GROUND IN ACCORDANCE WITH THE NEC AND LOCAL CODES WHICH EXCEED THE DOT SPECS. USE AN APPROVED COPPER CLAD GROUND ROD, 40' IN LENGTH AND AT LEAST 3/8" IN DIAMETER.
- 11 #6 INSULATED COPPER GROUND WIRE IN SIZE 1" RIGID GALVANIZED STEEL.
- 12 CONTROL TRANSFORMER 1 KVA, SINGLE PHASE, 480V PRIMARY 120V SECONDARY.
- 13 TYPE 1 SPD (LIGHTNING ARRESTER) SUITABLE FOR SERVICE ENTRANCE TO BE MOUNTED ON THE OUTSIDE OF METER.
- 14 MAIN MOLDED CASE CIRCUIT BREAKER 480V, 100 AMP, 2P, SN 60HZ SERVICE ENTRANCE RATED. 35,000 A.I.C. IN A NEMA 1 ENCLOSURE
- 15 ELECTRICALLY HELD LIGHTING CONTACTOR 480V, 100 AMP, 2P, 60HZ, 120V COIL IN A NEMA 1 ENCLOSURE.
- 16 FREE STANDING NEMA 4X STAINLESS STEEL ENCLOSURE WITH TWO DOORS AND BACK PANEL.
- 17 120V PHOTO-ELECTRIC CELL TORK MODEL 2101, 2000VA RATED.

ADDITIONAL DUKE ENERGY ELECTRICAL SERVICE REQUIREMENTS:

1. APPLICATION FOR SERVICE NEEDS TO BE CALLED IN TO DUKE ENERGY. CUSTOMER SERVICE CENTER.
2. THE ASSIGNED (PERMITTED) SERVICE ADDRESS SHALL BE CLEARLY AND PERMANENTLY MARKED ON THE STRUCTURE AND VISIBLE FROM THE FRONT OF THE PROPERTY BEFORE THE METER/SERVICE WILL BE CONNECTED.
3. CONDUCTORS MARKED 12" FROM THE END OF A SERVICE ENTRANCE.
4. ADDRESS PLACARD POP RIVETED TO THE METER ENCLOSURE COVER.
5. MAXIMUM/MINIMUM HEIGHT REQUIREMENTS SHALL BE FOLLOWED. REFER TO LATEST EDITION OF DUKE ENERGY ELECTRIC METERING SERVICE REQUIREMENTS EDITION FOR ADDITIONAL REQUIREMENTS.



REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-27
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	

240/480V.,1Ø,3W WITH GROUND BUS		EXISTING LOAD CENTER "682" PANEL "682" SCHEDULE						100A., M.L.O. NEMA 1 ENCLOSURE	
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD
1	6.81	14.18	20/2	STREET LIGHTING	2	1.44	3.0	20/2	STREET LIGHTING
3	4.4	9.2	20/2	STREET LIGHTING	4	3.71	7.73	30/2	STREET LIGHTING
5	2.1	4.4	20/2	STREET LIGHTING	6	7.48	15.6	30/2	STREET LIGHTING
7	4.8	10.0	30/2	STREET LIGHTING	8	-	-	30/2	SPARE
9	-	-	30/2	SPARE	10	-	-	-	SPACE
11	-	-	-	SPACE	12	-	-	-	SPACE
CONTINUOUS LOAD:				30.77 KVA	(64.11 AMPS)				
TOTAL LOAD:				38.47 KVA	(80.14 AMPS)				

NOTES:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS		EXISTING LOAD CENTER "A2" PANEL "A2" SCHEDULE						100A., M.L.O. NEMA 1 ENCLOSURE	
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD
1	5.76	12.0	30/2	STREET LIGHTING	2	4.05	8.43	30/2	STREET LIGHTING
3	5.67	11.81	30/2	STREET LIGHTING	4	5.1	10.61	30/2	STREET LIGHTING
5	-	-	30/2	SPARE	6	-	-	30/2	SPARE
7	-	-	-	SPACE	8	-	-	-	SPACE
CONTINUOUS LOAD:				20.06 KVA	(42.85 AMPS)				
TOTAL LOAD:				25.71 KVA	(53.57 AMPS)				

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS		LOAD CENTER "B" PANEL "B" SCHEDULE						100A., M.L.O. NEMA 1 ENCLOSURE	
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD
1	5.0	10.42	40/2	STREET LIGHTING	2	9.48	19.75	40/2	STREET LIGHTING
3	4.1	8.59	40/2	STREET LIGHTING	4	6.4	13.3	40/2	STREET LIGHTING
5	-	-	40/2	SPARE	6	-	-	40/2	SPARE
7	-	-	-	SPACE	8	-	-	-	SPACE
CONTINUOUS LOAD:				25.00 KVA	(52.09 AMPS)				
TOTAL LOAD:				31.25 KVA	(65.11 AMPS)				

NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS		EXISTING LOAD CENTER "B2" PANEL "B2" SCHEDULE						100A., M.L.O. NEMA 1 ENCLOSURE	
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD
1	7.5	15.67	30/2	STREET LIGHTING	2	8.6	17.93	30/2	STREET LIGHTING
3	-	-	30/2	SPARE	4	-	-	30/2	SPARE
5	-	-	30/2	SPARE	6	-	-	30/2	SPARE
7	-	-	-	SPACE	8	-	-	-	SPACE
CONTINUOUS LOAD:				16.1 KVA	(33.60 AMPS)				
TOTAL LOAD:				20.2 KVA	(42.00 AMPS)				

NOTE:

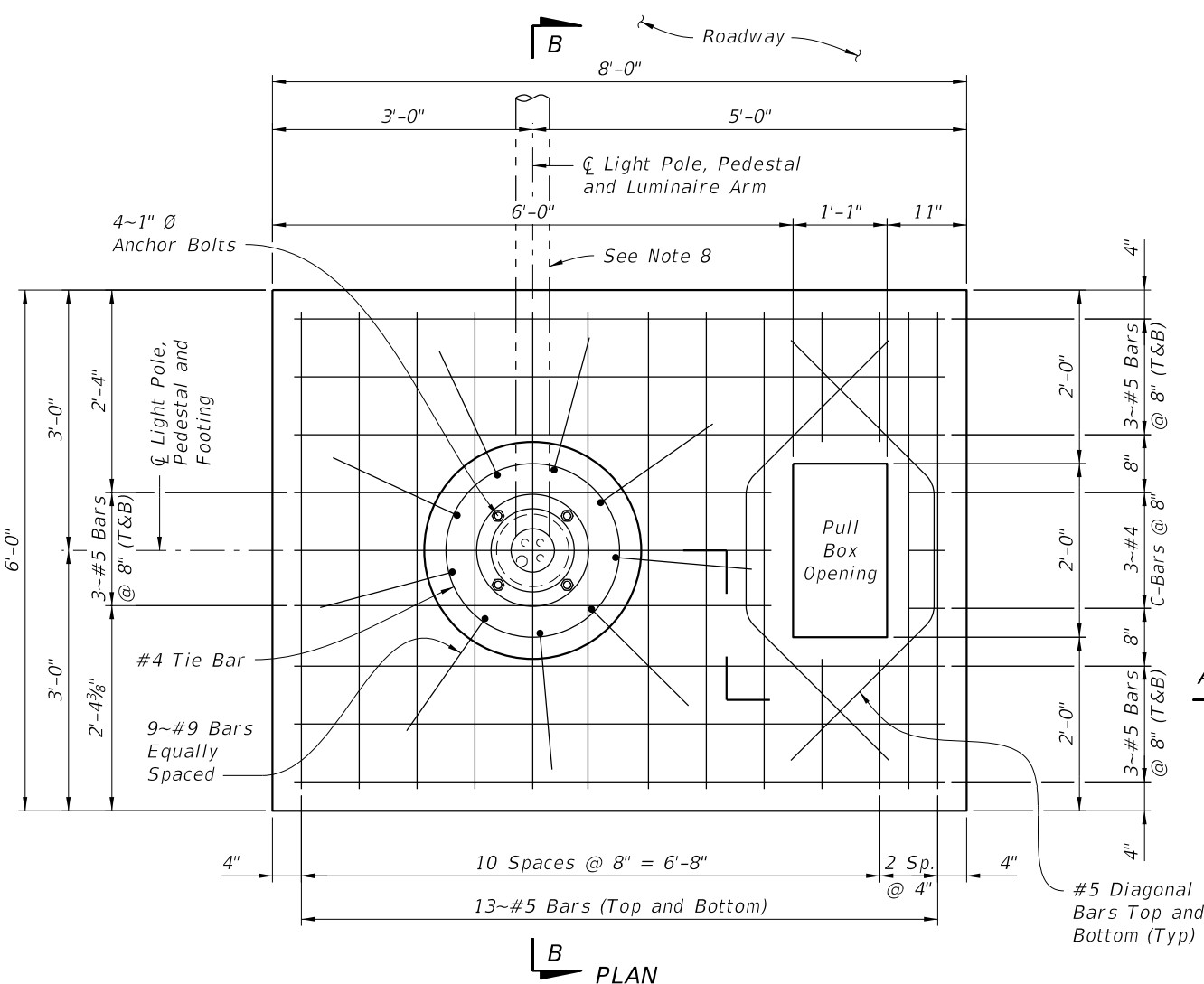
1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

240/480V.,1Ø,3W WITH GROUND BUS		EXISTING LOAD CENTER "A" PANEL "A" SCHEDULE						100A., M.L.O. NEMA 1 ENCLOSURE	
CKT. NO.	KVA	AMP	BKR	LOAD	CKT. NO.	KVA	AMP	BKR	LOAD
1	10.3	21.51	30/2	STREET LIGHTING	2	4.18	8.7	30/2	STREET LIGHTING
3	3.8	7.9	30/2	STREET LIGHTING	4	-	-	30/2	SPARE
5	-	-	30/2	SPARE	6	-	-	-	SPACE
7	-	-	-	SPACE	8	-	-	-	SPACE
CONTINUOUS LOAD:				18.3 KVA	(38.11 AMPS)				
TOTAL LOAD:				22.8 KVA	(47.64 AMPS)				

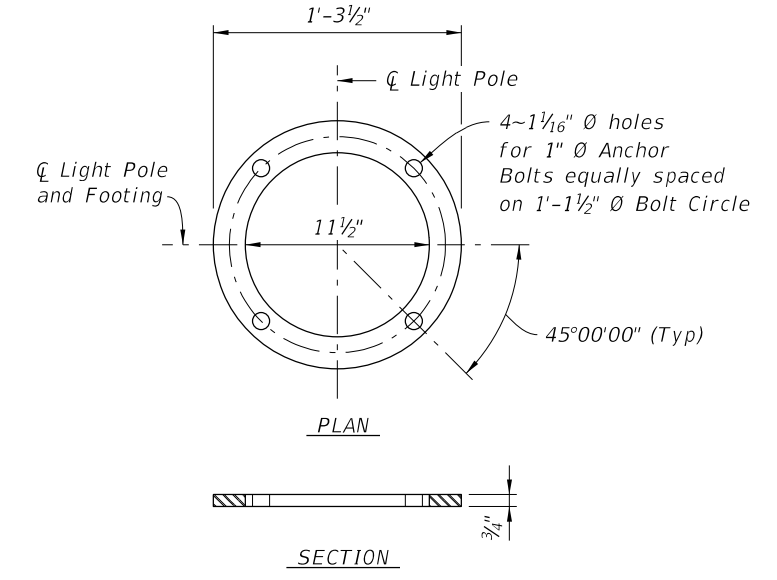
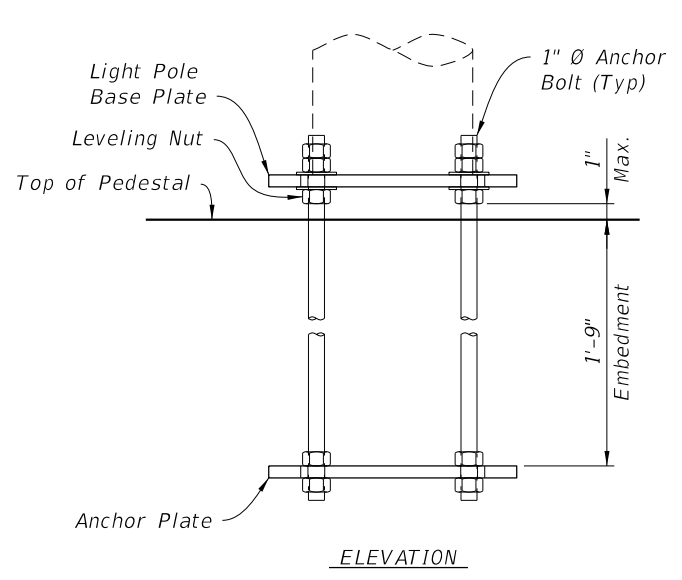
NOTE:

1. ALL CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 14,000 AMPS SYMMETRICAL.

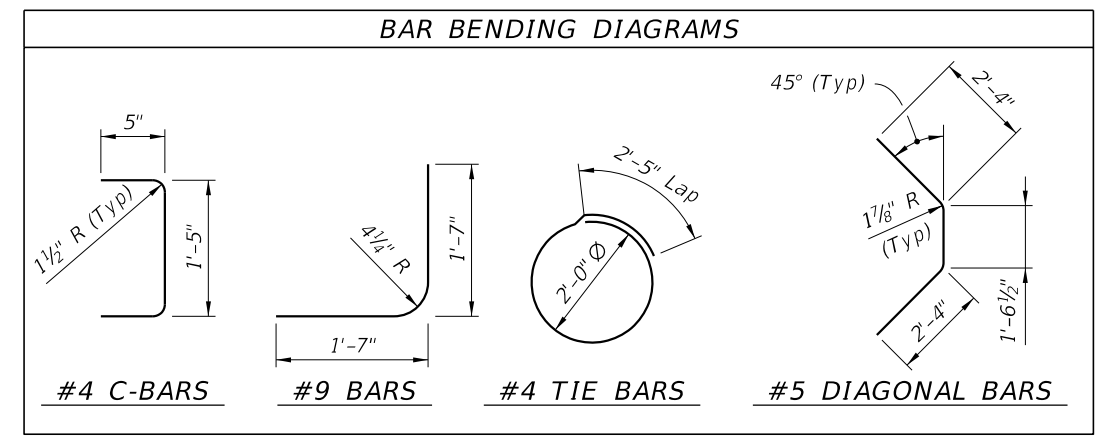
REVISIONS				ALEXIS MOUSADI, P.E. P.E. LICENSE NUMBER 50764 AECOM TECHNICAL SERVICES, INC. 150 N. ORANGE AVENUE, SUITE 200 ORLANDO, FL 32801	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. L-28
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	441113-1-52-01	



PLAN

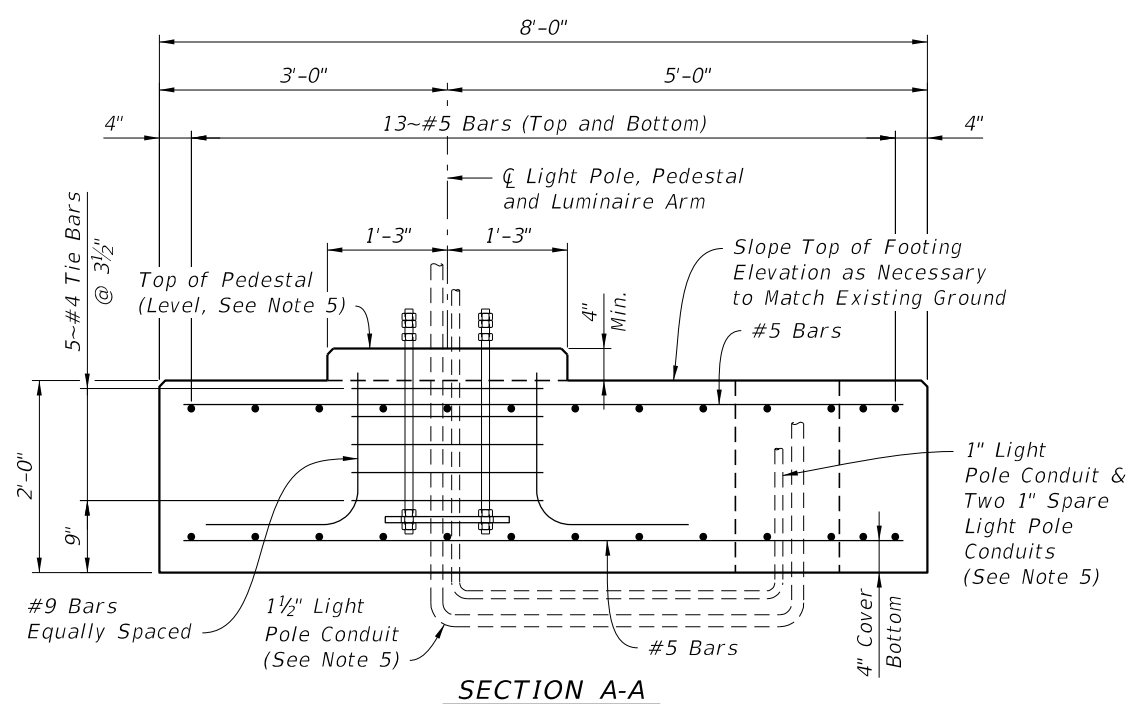


ANCHOR PLATE/BOLT DETAIL

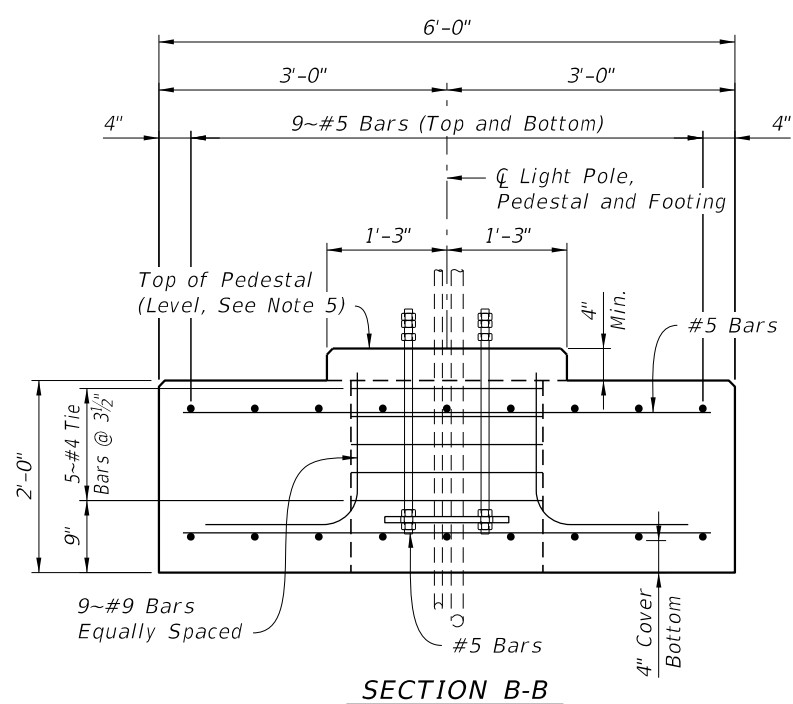


NOTES

- Concrete shall be Class IV with a minimum 28-day compressive strength of 5.5 ksi.
- Reinforcing steel shall be ASTM A615, Grade 60.
- Anchor Bolts:
Anchor Bolt Diameter: 1 inch
Anchor Bolts: ASTM F1554 Grade 55
Nuts: ASTM A563 Grade A, Heavy Hex
Washers: ASTM F436 Type 1
Anchor Plate: ASTM A709 (Grade 36) or ASTM A36
Coating: Galvanize all Nuts, Bolts, and Washers, in accordance with ASTM F2329. Galvanize plates in accordance with ASTM A123.
- Install Anchor Bolts plumb. The Contractor is responsible for ensuring the anchor bolt configuration is compatible with the light pole base plate. Submit modifications of the anchor bolt design to the Engineer for approval.
- For conduit, pull boxes, and elevations, refer to light pole data tables and utility conduit detail sheets.
- The following soil data was used in the design of these Light Pole Spread Footing foundations:
Effective Soil Unit Weight = 42.0 pcf
Internal Angle of Friction = 28 degrees
Allowable Bearing Capacity = 2500 psf
- All reinforcement shall have 3" cover unless noted otherwise.
- The footing, pedestal and luminaire arm shall be constructed in the orientation shown relative to the adjacent roadway.



SECTION A-A



SECTION B-B

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

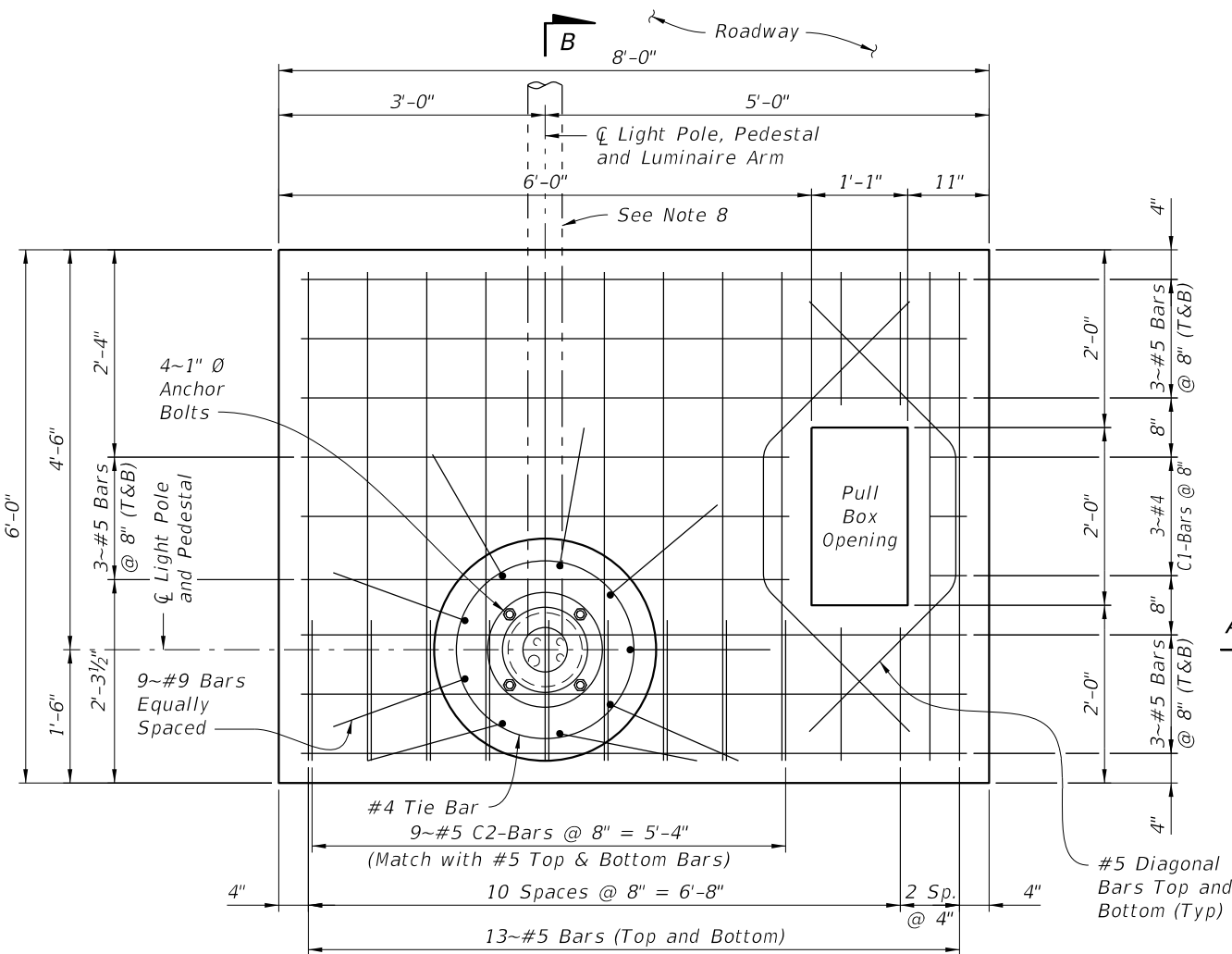
AECOM Technical Services, Inc.
150 North Orange Avenue
Suite 200
Orlando, FL 32801
Brian T. Chunn, P.E. No. 56769

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

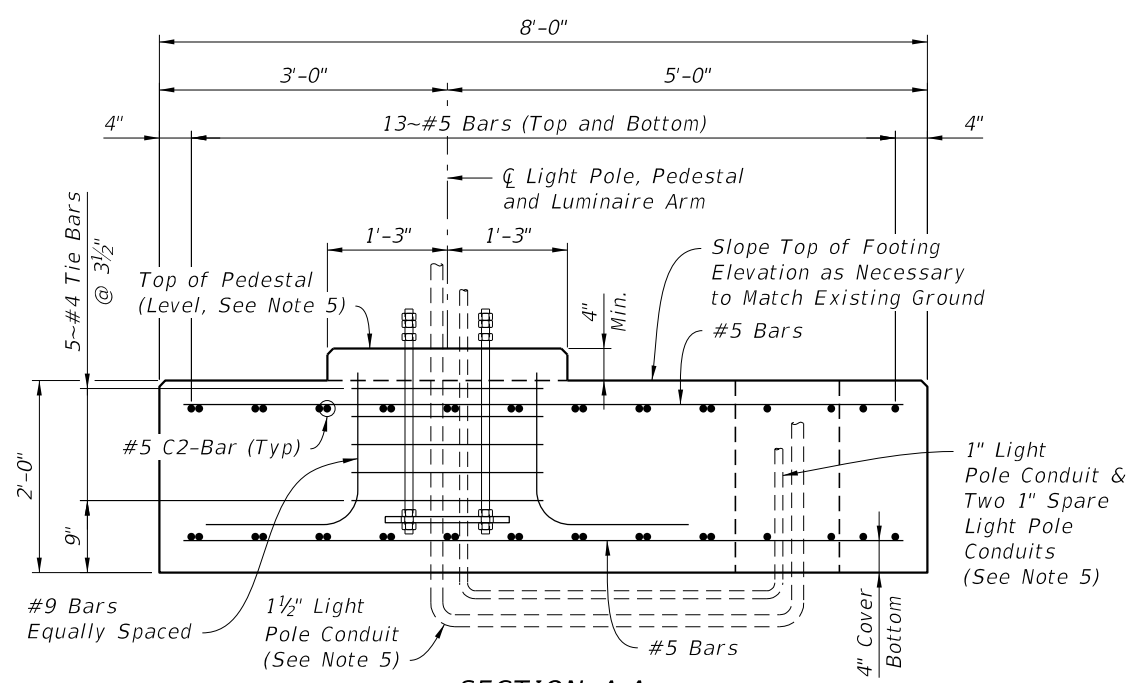
**LUMINAIRE SPREAD
FOOTING OPTION 1**

SHEET NO.
L-29

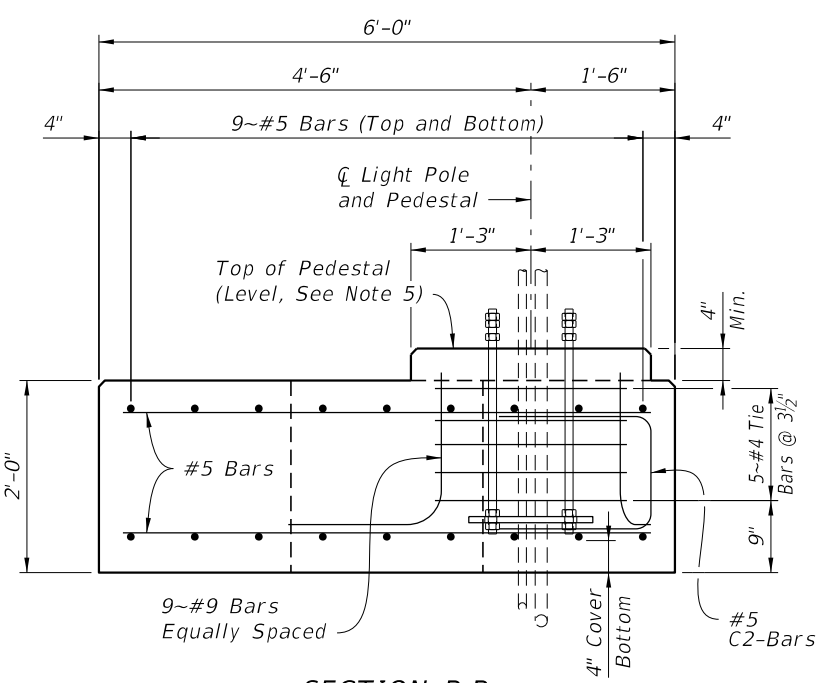
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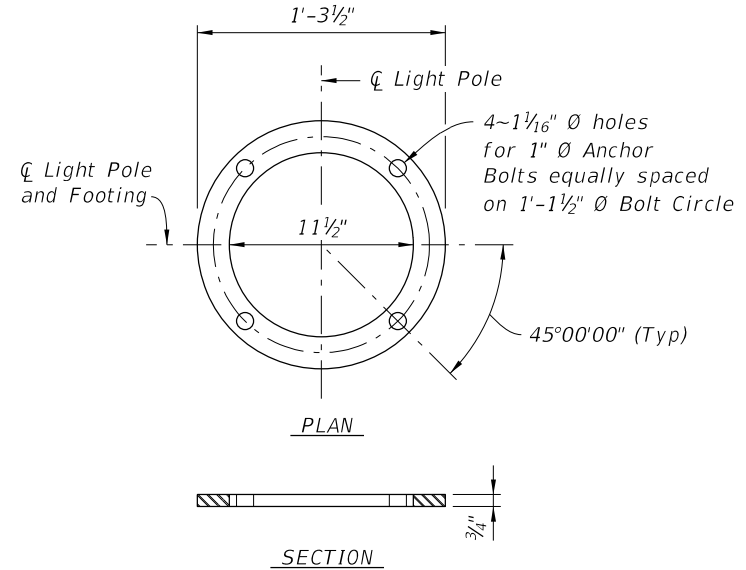
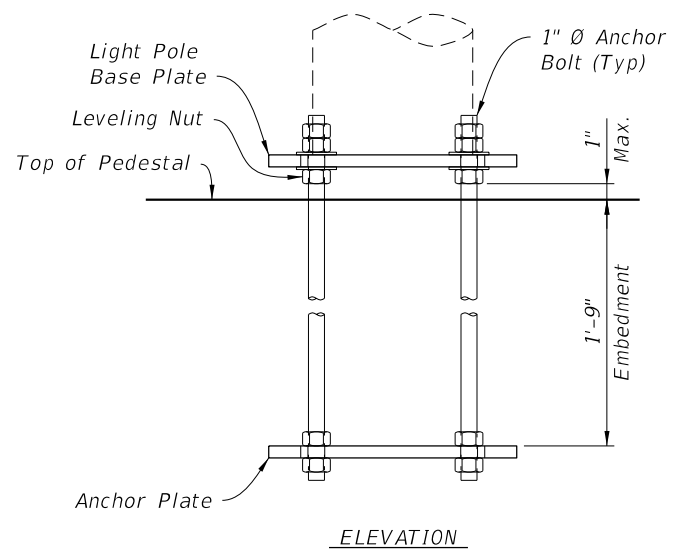
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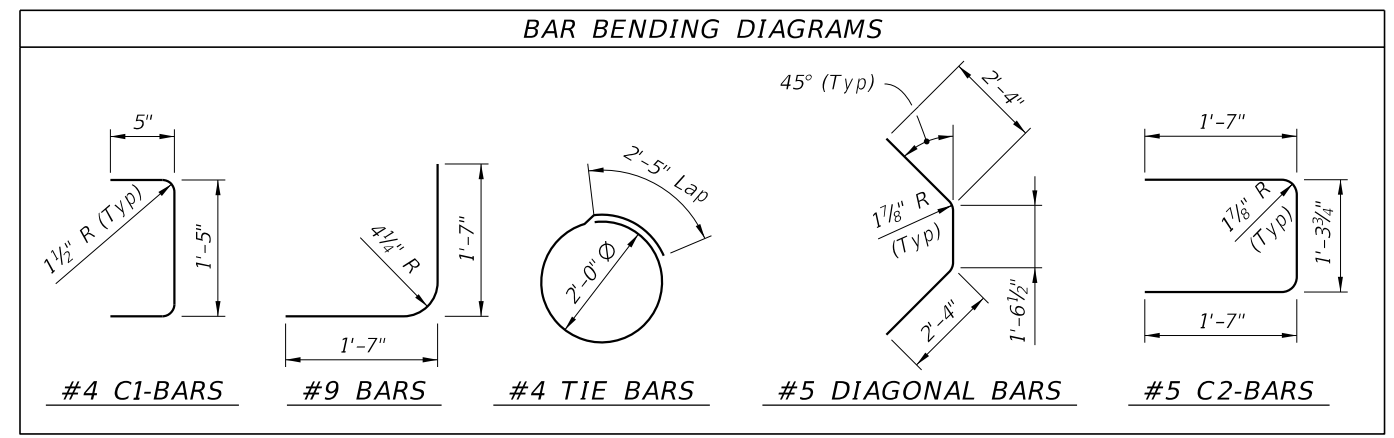
SECTION A-A



SECTION B-B



ANCHOR PLATE/BOLT DETAIL



NOTES

- Concrete shall be Class IV with a minimum 28-day compressive strength of 5.5 ksi.
- Reinforcing steel shall be ASTM A615, Grade 60.
- Anchor Bolts:
Anchor Bolt Diameter: 1 inch
Anchor Bolts: ASTM F1554 Grade 55
Nuts: ASTM A563 Grade A, Heavy Hex
Washers: ASTM F436 Type 1
Anchor Plate: ASTM A709 (Grade 36) or ASTM A36
Coating: Galvanize all Nuts, Bolts, and Washers, in accordance with ASTM F2329. Galvanize plates in accordance with ASTM A123.
- Install Anchor Bolts plumb. The Contractor is responsible for ensuring the anchor bolt configuration is compatible with the light pole base plate. Submit modifications of the anchor bolt design to the Engineer for approval.
- For conduit, pull boxes, and elevations, refer to light pole data tables and utility conduit detail sheets.
- The following soil data was used in the design of these Light Pole Spread Footing foundations:
Effective Soil Unit Weight = 42.0 pcf
Internal Angle of Friction = 28 degrees
Allowable Bearing Capacity = 2500 psf
- All reinforcement shall have 3" cover unless noted otherwise.
- The footing, pedestal and luminaire arm shall be constructed in the orientation shown relative to the adjacent roadway.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

AECOM Technical Services, Inc.
150 North Orange Avenue
Suite 200
Orlando, FL 32801
Brian T. Chunn, P.E. No. 56769

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	441113-1-52-01

LUMINAIRE SPREAD FOOTING OPTION 2	SHEET NO. L-30
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