TYPICAL SECTION PACKAGE
FOR
State Road 400
I-4 Beyond the Ultimate Project

From West of US 27/SR 25 to West of SR 535 (Kirkman Road) and from 1 Mile East of SR 434 to ½ Mile East of SR 472 (Polk, Osceola, Orange, Seminole & Volusia Counties)

PD&E Financial Project ID 201210-2-22-01 (District 1)
PD&E Financial Project ID 432100-1-22-01 (District 5)

Design Financial Project ID 201210-3 (Polk County) (Segment 5)
Design Financial Project ID 431456-1 (Osceola County) (Segment 1A)
Design Financial Project ID 242484-8 (Orange County) (Segment 1B)
Design Financial Project ID 242484-7 (Orange County) (Segment 2)
Design Financial Project ID 242592-4 (Seminole County) (Segment 3)
Design Financial Project ID 408464-2 (Volusia County) (Segment 4)

Prepared for:
Florida Department of Transportation,
District 1 & District 5

February 09, 2017

Prepared by:
HNTB Corporation
610 Crescent Executive Ct., Suite 400
Lake Mary, FL 32746
## Table of Contents

PD&E FPID: 201210-2 (Segment 5)
PD&E FPID: 432100-1 (Segment 1A, 1B, 2, 3 & 4)

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I-4 Beyond the Ultimate

Typical Sections Depicting Typical Mainline Cross Slopes
PD&E FPID: 201210-2 (Segment 5)
PD&E FPID: 432100-1 (Segment 1A, 1B, 2, 3 & 4)

| I-4 Mainline Typical Cross Slope Typical Sections |
|-----------------|------------------------------------------------|
| **T-1** | 6 General Use Lanes + 4 Express Lanes (Segment 5) |
| **T-2** | 8 General Use Lanes + 4 Express Lanes (Segment 5) |
| **T-3** | 10 General Use Lanes + 4 Express Lanes (Segment 5) |
| **T-4** | 6 General Use Lanes + 4 Express Lanes (Segment 1A, 1B, 2, 3 & 4) |
| **T-5** | 8 General Use Lanes + 4 Express Lanes (Segment 1A, 1B, 2, 3 & 4) |
| **T-6** | 10 General Use Lanes + 4 Express Lanes (Segment 1A, 1B, 2, 3 & 4) |
| **T-7** | 12 General Use Lanes + 4 Express Lanes (Segment 1A, 1B, 2, 3 & 4) |
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 201210-2-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME: POLK

SECTION NO.: 16320
ROAD DESIGNATION: SR 400 (I-4)
LIMITS/MILEPOST: MP 27.145 - 32.022
PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITH RAIL CORRIDOR
6+4 LANES

LENGTH OF 6+4 CONFIGURATION:
EB: 2.65 LANE MILES
WB: 3.42 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.

ROBERT M. DENNEY
LICENSE No. 58593
STATE OF FLORIDA

APPROVED
HRTB CORPORATION
510 CRESCENT EXEC. CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO. 6300

FDOT CONCURRENCE

BERNIE MASING, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 201210-2-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME POLK

SECTION NO. 16320   ROAD DESIGNATION SR 400 (1-4)   LIMITS/MILEPOST MP 27.145 - 32.022

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) WITH RAIL CORRIDOR
8+4 LANES

LENGTH OF 8+4 CONFIGURATION:
EB: 1.02 LANE MILES
WB: 0.71 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.

FDOT CONCURRENCE

FHWA CONCURRENCE

ROBERT M. DENNEY

STATE OF FLORIDA

No. 50653

APPROVED BY

ROBERT M. DENNEY, P.E.

HIDT CORPORATION
610 CRESCENT EXEC CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

BART M. MASONING, P.E.
FDOT District Design Engineer

Date

FHWA Transportation Engineer

Date

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PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 201210-2-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME POLK

SECTION NO. 16320
ROAD DESIGNATION SR 400 (I-4)
LIMITS/MILEPOST MP 27.145 - 32.022
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITH RAIL CORRIDOR
10+4 LANES

LENGTH OF 10+4 CONFIGURATION:
EB: 0.40 LANE MILES
WB: 0.34 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.

T-3

FDOT CONCURRENCE

B. Masing
证件号码: 59219
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date: 1/17/18

State of Florida
Professional Engineer

No. 58593

Robert M. Denney

Project Approval
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE SEMINOLE VOLUSIA

SECTION NO.  92130, 75280, 77160, 79110  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  
MP 0.000 - 7.885 (OSCEOLA)  
MP 0.000 - 9.520 (ORANGE)  
MP 4.050 - 14.135 (SEMINOLE)  
MP 0.000 - 10.227 (VOLUSIA)

PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

LENGTH OF 6+4 CONFIGURATION: 
EB: 18.07 LANE MILES  
WB: 20.43 LANE MILES

NOTE:  TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.  THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.

DESIGN SPEED = 70 MPH

SR 400 (1-4)  
6+4 LANES

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.  
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

ROBERT M. DENNENY  
APPROVED BY  
No. 58593

STATE OF FLORIDA  
Engineer of Record 85989

HNTB CORPORATION  
610 CRESCENT EXEC. CT  
SUITE 400  
LAKE MARY, FL 32746  
(407) 805-6335  
CERT OF AUTH NO 6500  

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PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME

SECTION NO.  92130, 75280, 77160, 79110  ROAD DESIGNATION  SR 400 (1-4)

PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH

LENGTH OF 8+4 CONFIGURATION:

EB: 12.18 LANE MILES
WB: 13.12 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME

SECTION NO. 92130, 75280, 77160, 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST

MP 0.000 - 7.885 (OSCEOLA)  MP 0.000 - 9.529 (ORANGE)  MP 4.050 - 14.135 (SEMINOLE)
MP 0.000 - 10.227 (VOLUSIA)

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH

LENGTH OF 10+4 CONFIGURATION:
EB: 7.56 LANE MILES
WB: 2.60 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME

OSCEOLA ORANGE SEMINOLE VOLUSIA

SECTION NO. 92130, 75280, 77160, 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST

MP 0.000 - 7.885 (OSCEOLA)  MP 0.000 - 9.528 (ORANGE)  MP 4.050 - 14.135 (SEMINOLE)  MP 0.000 - 10.227 (VOLUSIA)

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

LENGTH OF 12+4
CONFIGURATION:
EB: 0.46 LANE MILES
WB: 1.44 LANE MILES

NOTE: TYPICAL SECTION CROSS SLOPES APPLY TO 0% TO 3%.
THIS TYPICAL USED TO ONLY REPRESENT CROSS SLOPES AND CROWN POINT.

DESIGN SPEED = 70 MPH
SR 400 (1-4)
12+4 LANES

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

Date

FHWA Transportation Engineer

Date
I-4 Beyond the Ultimate
Orange County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 2)
Design FPID: 242484-7

I-4 Mainline
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2-2     I-4 Project Controls (DS = 70 mph)
2-2A    I-4 Project Controls (DS = 60 mph)
2-3     I-4 Typical Section with Rail Corridor
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2-4A    I-4 Typical Section without Rail Corridor (DS = 60 mph)
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2-6     I-4 Westbound C-D Road
2-7     I-4 Westbound C-D Road Bridge Section

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2-9     Two Lane Ramp
2-10    Three Lane Ramp
2-11    One Lane Bridge Ramp
2-12    Two Lane Bridge Ramp

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2-14    SR 528 Roadway Section (1 Express Lane Both Directions)
2-15    SR 528 Bridge Section Over West Entrance Road

SR 482 (Sand Lake Road)
2-16    SR 482 Project Controls
2-17    SR 482 Roadway Section
2-18    SR 482 Roadway Section (East of I-4)

Turkey Lake Road
2-19    Turkey Lake Road Project Controls
2-20    Turkey Lake Road Near SR 528
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Universal Boulevard
2-22    I-4 Under Universal Boulevard
**PROJECT IDENTIFICATION**

- **FINANCIAL PROJECT ID**: 432100-1-22-01
- **COUNTY (SECTION)**: ORANGE (75280)
- **WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (SR 400/I-4)**

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<th>FUNCTIONAL CLASSIFICATION</th>
<th>HIGHWAY SYSTEM</th>
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<tr>
<td>URBAN</td>
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<td>(X) FREeway/Expy.</td>
<td>(X) NATIONAL HIGHWAY SYSTEM</td>
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<td>(X) PRINCIPAL Art.</td>
<td>(X) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<tr>
<td>(X) MINOR Art.</td>
<td>(X) STRATEGIC INTERMODAL SYSTEM</td>
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<td>(X) LOCAL</td>
<td>(X) STATE HIGHWAY SYSTEM</td>
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<td>(X) OFF STATE HIGHWAY SYSTEM</td>
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**ACCESS CLASSIFICATION**

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<th>1 - FREeway</th>
<th>TRAFFIC</th>
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<tr>
<td>(X) 2 - RESTRICTIVE w/Service Roads</td>
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<tr>
<td>(X) 3 - RESTRICTIVE w/660 ft. Connection Spacing</td>
<td></td>
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<tr>
<td>(X) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing</td>
<td></td>
</tr>
<tr>
<td>(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing</td>
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<tr>
<td>(X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing</td>
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<td>(X) 7 - BOTH MEDIAN TYPES</td>
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</table>

**CRITERIA**

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- (X) RRR INTERSTATE / FREeway
- (X) RRR NON-INTERSTATE / FREeway
- (X) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- (X) TDLC / RRR
- (X) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

- BORDER WIDTH (VARIATION) - FOR THE BORDER WIDTHS LESS THAN 94-FT (94-FT REQUIRED)
- SHOULDER WIDTH (VARIATION) - FOR THE 10-FT MEDIAN GUL SHOULDER (12-FT REQUIRED)
- SHOULDER WIDTH (VARIATION) - FOR THE 4-FT MEDIAN EXPRESS LANE SHOULDER (6-FT REQUIRED)

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

- SR 528
- WEST ENTRANCE DRIVE (750087, 750180)
- SAND LAKE ROAD (754128)
- UNIVERSAL BLVD. (750335, 750336)
- UNIVERSAL BLVD. (750485)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)
- WATER (ORANGE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (ORANGE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
COUNTY (SECTION) ORANGE (75280)
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (SR 400/I-4)

FUNCTIONAL CLASSIFICATION

( ) RURAL
( ) URBAN
(X) FREEWAY/EXPWY.
( )重大收集
( ) PRINCIPAL ART.
( ) MINOR COLL.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM

Yes No
(X) ( ) NATIONAL HIGHWAY SYSTEM
(X) ( ) FLORIDA INTRASTATE HIGHWAY SYSTEM
(X) ( ) STRATEGIC INTERMODAL SYSTEM
(X) ( ) STATE HIGHWAY SYSTEM
( ) (X) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X) 1 - FREEWAY
(X) 2 - RESTRICTIVE w/Service Roads
(X) 3 - RESTRICTIVE w/660 ft. Connection Spacing
(X) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
(X) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
(X) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT
OPENING 2020 180,000
INTERIM 2030 215,000
DESIGN 2040 246,000

DISTRIBUTION

DESIGN SPEED 60 MPH K 7.4
POSTED SPEED 60 MPH D 52.92
T24 6.5%

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
(X) RRR INTERSTATE / FREEWAY
(X) RRR NON-INTERSTATE / FREEWAY
(X) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
(X) TDLC / RRR
(X) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

BORDER WIDTH (VARIATION) - FOR THE BORDER WIDTHS LESS THAN 94-FT (94-FT REQUIRED)
SHOULDER WIDTH (VARIATION) - FOR THE 10-FT MEDIAN GUL SHOULDER (12-FT REQUIRED)
SHOULDER WIDTH (VARIATION) - FOR THE 4-FT MEDIAN EXPRESS LANE SHOULDER (6-FT REQUIRED)

DISTRICT DESIGN ENGINEER DATE

DISTRICT TRAFFIC OPERATIONS ENGINEER DATE

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

SR 529
WEST ENTRANCE DRIVE (750087, 750180)
SAND LAKE ROAD (750335, 750336)
UNIVERSAL BLVD. (750485)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

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PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 – 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITHOUT RAIL CORRIDOR
STA 1365+00.00 TO 1488+80.00

FHWA CONCURRENCE  
FHWA Transportation Engineer

MARIO BIZZIO, P.E.  
FDOT District Design Engineer

12/11/17  
Date

FHWA CONCURRENCE

1/17/18  
Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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<thead>
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<td>1-4 WB EXPRESS LANE TO SR 528 EB</td>
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</tr>
<tr>
<td>1-4 EB EXPRESS LANE TO SR 528 EB</td>
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</tr>
<tr>
<td>SR 528 WB TO 1-4 WB EXPRESS LANES</td>
<td>50</td>
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<tr>
<td>SR 528 WB TO 1-4 EB EXPRESS LANES</td>
<td>50</td>
</tr>
<tr>
<td>1-4 WB GUL TO SAND LAKE ROAD</td>
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<tr>
<td>1-4 WB GUL TO TURKEY LAKE ROAD</td>
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SR 400 (1-4)
ONE LANE RAMP

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE HAVEN, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANKETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

ROBERT M. DENNEY
LICENSEE No. 58593
STATE OF FL

1/27/16
1/17/16

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PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: ORANGE

SECTION NO.: 75280
ROAD DESIGNATION: SR 400 (I-4)
LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Design Speed</th>
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<td>SEGMENT 2</td>
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<td>SR 528 WB TO I-4 EB GUL</td>
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<td>I-4 EB GUL TO SAND LAKE RD</td>
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</table>

SR 400 (I-4)
TWO LANE RAMP

FHWA CONCURRENCE

FHWA TRANSPORTATION ENGINEER

A/2 Breman
12/29/16

FHWA District Design Engineer

Annette K. Brennan, P.E.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: ORANGE

SECTION NO.: 75280
ROAD DESIGNATION: SR 400 (I-4)
LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEGMENT 2</td>
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<tr>
<td>1-4 WB EXPRESS LANE TO SR 528 EB</td>
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<tr>
<td>1-4 EB EXPRESS LANE TO SR 528 EB</td>
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</table>

SR 400 (I-4)
ONE LANE BRIDGE RAMP

HINTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

STATE OF FLORIDA

ROBERT M. DENNEY
Project Manager - 12/29/16

ROBERT M. DENNEY, P.E.

FHWA CONCURRENCE

FHWA Transportation Engineer

DATE: 1/17/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4) TWO LANE BRIDGE RAMP

<table>
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<tbody>
<tr>
<td>1-4 WB GUL TO SR 528 EB</td>
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FHWA CONCURRENCE

FHWA Transportation Engineer

Date 4/7/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT No. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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SR 400 (I-4)
THREE LANE RAMP
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4)
ONE LANE BRIDGE RAMP

FDO T CONCURRENCE

FHWA CONCURRENCE

ROBERT M. DENNEY, P.E.
Engineer of Record, 58393

HI TB CORPORATION
610 CRESCENT EXEC. CT
SUITE 400
LAKE HARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

AK Brennan 3/17/17
FHWA Transportation Engineer

Date

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (1-4)
TWO LANE BRIDGE RAMP

HNTB CORPORATION
(State)

610 CRESCENT EXEC. CT. SUITE 400
LAKE MARY, FL 32746
(407) 805-0355 CERT OF AUTH NO 6500

ANNETTE K. BRENNAN, P.E.
Foot District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Approval Date 3/17/17
Date 1/17/18
**PROJECT IDENTIFICATION**

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**PROJECT CONTROLS (SR 528)**

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| DESIGN SPEED | 70 MPH |
| POSTED SPEED | 65 MPH |

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<tr>
<td>A.K. Brennan</td>
<td>3/17/17</td>
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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

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| (754128) |

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: ORANGE

SECTION NO.: 75280
ROAD DESIGNATION: SR 400 (I-4)
LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 528 ROADWAY SECTION (1 EXPRESS LANE BOTH DIRECTIONS)

FDOT CONCURRENCE: ANNETTE K. BRENNAN, P.E.
FHWA CONCURRENCE: DATE

FHWA TRANSPORTATION ENGINEER

DATE
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 528 BRIDGE SECTION OVER WEST ENTRANCE ROAD
**PROJECT IDENTIFICATION**

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** ORANGE (75280)  
**PROJECT DESCRIPTION** WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (SR 482/SAND LAKE ROAD)**

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<th>HIGHWAY SYSTEM</th>
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<tbody>
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<td>(X) URBAN</td>
<td>(X) NATIONAL HIGHWAY SYSTEM</td>
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<td>(X) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<td>(X) STRATEGIC INTERMODAL SYSTEM</td>
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<td>( ) PRINCIPAL ART.</td>
<td>(X) STATE HIGHWAY SYSTEM</td>
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<td>( ) MINOR ART.</td>
<td>(X) OFF STATE HIGHWAY SYSTEM</td>
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**ACCESS CLASSIFICATION**

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<td>OPENING</td>
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**TRAFFIC**

**CRITERIA**

(X) NEW CONSTRUCTION / RECONSTRUCTION  
(X) RRR INTERSTATE / FREEWAY  
(X) RRR NON-INTERSTATE / FREEWAY  
(X) TDLC / NEW CONSTRUCTION / RECONSTRUCTION  
(X) TDLC / RRR  
(X) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**  
N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**  
SAND LAKE ROAD (750335, 750336)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**  
GAS (CENTRAL FLORIDA GAS)  
WATER (ORANGE COUNTY UTILITIES)  
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
WASTEWATER (ORANGE COUNTY UTILITIES)  
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**  
N/A

---

**DISTRICT DESIGN ENGINEER**  
**DATE**

**DISTRICT TRAFFIC OPERATIONS ENGINEER**  
**DATE**  

SHEET 2-16
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 – 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

PROPOSED BRIDGE STRUCTURE

16'-6" MIN. VERTICAL CLEARANCE

CONCRETE BARRIER (TYP.)

CURB & GUTTER TYPE F

SR 482 (SAND LAKE RD) ROADWAY SECTION
DIVERGING DIAMOND INTERCHANGE

SN 2-17

APPROVED BY

KTB CORPORATION
10 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNA, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
SAND LAKE RD ROADWAY SECTION (EAST OF SR 400)

FDOT CONCURRENCE

ANNETTE K. BRENNA, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Sheet 2-18
### Project Identification

**Financial Project ID:** 432100-1-22-01  
**County (Section):** ORANGE (75280)

**Project Description:** WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

### Project Controls (Turkey Lake Road)

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<tr>
<th>Functional Classification</th>
<th>Highway System</th>
<th>Traffic</th>
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<tbody>
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### Access Classification

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<td>4</td>
<td>Non-Restrictive w/2640 ft. Signal Spacing</td>
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### Criteria

- (X) New Construction / Reconstruction
- ( ) RRR Interstate / Freeway
- ( ) RRR Non-Interstate / Freeway
- ( ) TDLC / New Construction / Reconstruction
- ( ) TDLC / RRR
- ( ) Manual of Uniform Minimum Standards (Florida Greenbook) (Off-State Highway System Only)

### Design Speed Approvals

- District Design Engineer: [Signature]  
  Date: 3/17/17
- District Traffic Operations Engineer: [Signature]  
  Date: 4/10/17

### Traffic

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### Distribution

- Design Speed: 45 MPH
- K: 7.4
- D: 53.66
- T24: 3.8%

### List Any Potential Exceptions and Variations Related to Typical Section Elements:

N/A

### List Major Structures Location/Description - Requiring Independent Structure Design:

N/A

### List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)
- Water (Orange County Utilities)
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)
- Wastewater (Orange County Utilities)
- Electric (Duke Energy Distribution, Duke Energy Transmission)

### List Other Information Pertinent to Design of Project:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
TURKEY LAKE RD ROADWAY SECTION (NEAR SR 528)

FHWA CONCURRENCE
FHWA Transportation Engineer

COUNTY CONCURRENCE
County Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
TURKEY LAKE RD ROADWAY SECTION
(NEAR SAND LAKE RD)

SHEET 2-21
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

EXISTING BRIDGE STRUCTURE

16'-6" MIN. VERTICAL CLEARANCE

WORK TO BE COMPLETED OTHERS ON I-4 ULTIMATE

DESIGN SPEED = 50 MPH
WB SR 400 (I-4) UNDER UNIVERSAL BLVD

FHWA CONCURRENCE

FHWA Transportation Engineer Date

SHEET 2-22
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT ID 201210-2-22-01
(FEDERAL FUNDS)

POLK COUNTY (16320)

STATE ROAD NO. 400 (1-4)
1-4 BEYOND THE ULTIMATE
TYPICAL SECTION PACKAGE

PROJECT LOCATION

END SEGMENT 5
EXIST. SR 400
STA. 604+50.00
MP 31.607 (POLK CO.)

BEGIN PROJECT
BEGIN SEGMENT 5
EXIST. SR 400
STA. 368+58.00
MP 27.145 (POLK CO.)

PROJECT LENGTH IS BASED ON Q OF CONSTRUCTION

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FDOT PROJECT MANAGER: BEATA STYS-PALASZ, PE

SHEET 5-1
**PROJECT IDENTIFICATION**

FINANCIAL PROJECT ID: 201210-2-22-01  
COUNTY (SECTION): POLK (16320)

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF US 27/SR 25 TO WEST OF CR 532

**PROJECT CONTROLS (SR 400/I-4)**

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<th>HIGHWAY SYSTEM</th>
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<tr>
<td>( ) RURAL</td>
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<td>(X) URBAN</td>
<td>(X) NATIONAL HIGHWAY SYSTEM</td>
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<td>( ) FREeways/Expy.</td>
<td>( ) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<td>(X) Principal Art.</td>
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<td>( ) Minor Art.</td>
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<td>( ) Local</td>
<td>(X) OFF STATE HIGHWAY SYSTEM</td>
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<table>
<thead>
<tr>
<th>ACCESS CLASSIFICATION</th>
<th>TRAFFIC</th>
</tr>
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</table>
| (X) 1 - Freeway       | YEAR:  
| ( ) 2 - Restrictive w/Service Roads | AADT: |
| ( ) 3 - Restrictive w/600 ft. Connection Spacing | OPENING: 2020  |
| ( ) 4 - Non-Restrictive w/2640 ft. Signal Spacing | 140,000 |
| ( ) 5 - Restrictive w/440 ft. Connection Spacing | INTERIM: 2030  |
| ( ) 6 - Non-Restrictive w/1320 ft. Signal Spacing | 170,000 |
| ( ) 7 - Both Median Types | DESIGN: 2040  |

<table>
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<th>CRITERIA</th>
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<td>(X) NEW CONSTRUCTION / RECONSTRUCTION</td>
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<td>( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION</td>
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<tr>
<td>( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)</td>
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</table>

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

**BORDER WIDTH (VARIATION) - FOR THE BORDER WIDTHS LESS THAN 94-FT (94-FT REQUIRED)**

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

US 27/SR 25  
GRANDVIEW PARKWAY (924179) (BY OTHERS)  
CR 54  
(160320)  
(160331, 160332)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)  
WATER (POLK COUNTY UTILITIES)  
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
WASTEWATER (POLK COUNTY UTILITIES)  
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

THE PROJECT IS BEING DESIGNED UNDER CONTRACT WITH DISTRICT 5

**SHEET 5-2**
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 201210-2-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME POLK

SECTION NO. 16320  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 27.145 - 32.022

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

SR 400 (1-4) WITH RAIL CORRIDOR
STA 368+58.00 TO STA 627+20.00

SHEET 5-3

FDOT CONCURRENCE  FHWA CONCURRENCE

BERNIE MASONING, P.E.  FHWA Transportation Engineer
FDOT District Design Engineer  Date  1/17/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  201210-2-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  POLK

SECTION NO.  16320  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 27.145 - 32.022

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

SR 400 (I-4) UNDER US 27/SR 25

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FROM INSIDE FACE OF BARRIER TO INSIDE FACE OF BARRIER.
*** SINGLE PIER OR DOUBLE PIER CONFIGURATION MAY BE USED.
**** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

ROBERT M. DENNEY
LICENS No. 58593
APPROVED
STATE OF

HNTB CORPORATION
610 CRESCENT EXEC. CT SUITE 400
LAKE MARY, FL 32746
(407) 895-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

8-18-17

FHWA CONCURRENCE

4/17/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 201210-2-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME POLK

SECTION NO. 16320 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 27.145 - 32.022
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF SR 25/US 27 TO WEST OF CR 532

PROPOSED ROADWAY TYPICAL SECTION

PROPOSED BRIDGE STRUCTURE

****3'-6" MAX PIER WIDTH

23'-6" MIN. VERTICAL CLEARANCE*

20'-3" PIER HEIGHT

****3'-6" MAX PIER WIDTH

SR 400 (I-4) UNDER GRANDVIEW PARKWAY

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FROM INSIDE FACE OF BARRIER TO INSIDE FACE OF BARRIER.
*** SINGLE PIER OR DOUBLE PIER CONFIGURATION MAY BE USED.
**** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

SHEET 5-14

FDOT CONCURRENCE FDOT District Design Engineer

B. A. Masing, P.E.
August 18, 2017

FHWA CONCURRENCE FHWA Transportation Engineer

FHWA
November 17, 2018
I-4 Beyond the Ultimate
Orange County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 1B)
Design FPID: 242484-8

I-4 Mainline
1B-1 Key Sheet
1B-2 I-4 Project Controls
1B-3 I-4 Typical Section with Rail Corridor (Orange County)
1B-4 I-4 Typical Section Bridge Viaduct Between SR 536 and SR 535 (Orange County)
1B-5 I-4 Typical Section Bridge Viaduct Between SR 535 and Daryl Carter Parkway (Orange County)
1B-6 I-4 Bridge Over SR 535 (Replace)
1B-7 I-4 Bridge Over Central Florida Parkway (Replace)

Ramps
1B-8 One Lane Ramp
1B-9 Two Lane Ramp
1B-10 Three Lane Ramp
1B-11 One Lane Bridge Ramp
1B-12 Two Lane Bridge Ramp
1B-13 Three Lane Bridge Ramp

SR 536
1B-14 SR 536 Project Controls
1B-15 SR 536 Bridge Section (Replace)
1B-16 I-4 Under SR 536 Eastbound Ramp
1B-17 I-4 Under SR 536 Mainline

SR 535
1B-18 SR 535/Apopka Vineland Rd. Project Controls
1B-19 Hotel Plaza Blvd. Project Controls
1B-20 Vineland Ave. Project Controls
1B-21 Palm Parkway Project Controls
1B-22 Winter Garden Vineland Rd. Project Controls
1B-23 Grand Cypress Boulevard Project Controls
1B-24 SR 535 Roadway Section Under I-4
1B-25 SR 535 Roadway Section with Elevated SB
1B-26 Apopka Vineland Rd. Roadway Section with Elevated NB
1B-27 Apopka Vineland Rd. NB Bridge Section Over Hotel Plaza
1B-28 SR 535 SB Bridge Section Over Vineland Avenue
1B-29 Hotel Plaza Loop Ramp Under Apopka Vineland Rd. NB
1B-30 SR 400 (I-4) EB Off Ramp Under SR 535 SB
I-4 Beyond the Ultimate
Orange County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 1B)
Design FPID: 242484-8

1B-31 Hotel Plaza Boulevard – Elevated Left Turns
1B-32 Vineland Avenue Roadway Section
1B-33 Hotel Plaza Boulevard Left Turn Flyover Over Apopka Vineland Rd, SB
1B-34 Vineland Avenue Left Turn Flyover Over SR 535 NB
1B-35 Apopka Vineland Rd. SB Roadway Section Under Hotel Plaza Boulevard Bridge
1B-36 SR 535 NB Roadway Section Under Vineland Avenue Bridge
1B-37 Palm Parkway Roadway Section
1B-38 Winter Garden Vineland Rd. Roadway Section
1B-39 Grand Cypress Parkway Roadway Section
1B-40 Vinings Way Boulevard Roadway Section
1B-41 Apopka Vineland Rd./CR 435 Roadway Section

**Daryl Carter Parkway**
1B-42 Daryl Carter Parkway Project Controls
1B-43 I-4 Under Daryl Carter Parkway
1B-44 Daryl Carter Parkway Bridge Section

**Central Florida Parkway**
1B-45 Central Florida Parkway Project Controls
1B-46 I-4 Under Westbound Central Florida Parkway Ramp
1B-47 Central Florida Parkway Under I-4
**PROJECT IDENTIFICATION**

- **FINANCIAL PROJECT ID**: 432100-1-22-01
- **COUNTY (SECTION)**: ORANGE (75280)
- **PROJECT DESCRIPTION**: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (SR 400/1-4)**

- **FUNCTIONAL CLASSIFICATION**
  - (X) URBAN
  - (X) FREEWAY/EXPWY.
  - ( ) MAJOR COLL.
  - ( ) PRINCIPAL ART.
  - ( ) MINOR COLL.
  - ( ) MINOR ART.
  - ( ) LOCAL

- **HIGHWAY SYSTEM**
  - (X) NATIONAL HIGHWAY SYSTEM
  - (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
  - (X) STRATEGIC INTERMODAL SYSTEM
  - (X) STATE HIGHWAY SYSTEM
  - (X) OFF STATE HIGHWAY SYSTEM

- **ACCESS CLASSIFICATION**
  - (X) FREEWAY
  - ( ) RESTRICTIVE w/Service Roads
  - ( ) RESTRICTIVE w/660 ft. Connection Spacing
  - ( ) NON-RESTRICTIVE w/2640 ft. Signal Spacing
  - ( ) RESTRICTIVE w/440 ft. Connection Spacing
  - ( ) NON-RESTRICTIVE w/1320 ft. Connection Spacing
  - ( ) BOTH MEDIAN TYPES

- **CRITERIA**
  - (X) NEW CONSTRUCTION / RECONSTRUCTION
  - ( ) RRR INTERSTATE / FREEWAY
  - ( ) RRR NON-INTERSTATE / FREEWAY
  - ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
  - ( ) TDLC / RRR
  - ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

- **TRAFFIC**
  - **OPENING**: 2020, 202,000
  - **INTERIM**: 2030, 237,000
  - **DESIGN**: 2040, 260,000
  - **DISTRIBUTION**
    - DESIGN SPEED: 70 MPH
      - K: 7.4
      - D: 52.92
      - T 24: 10.2%

  **DESIGN SPEED APPROVALS**
  - **DATE**: 3/17/17
  - **DISTRICT DESIGN ENGINEER**
  - **DATE**: 9/10/17
  - **DISTRICT TRAFFIC OPERATIONS ENGINEER**

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

- BORDER WIDTH (VARIATION) - FOR THE BORDER WIDTHS LESS THAN 94-Ft (94-Ft REQUIRED)
- SHOULDER WIDTH (VARIATION) - FOR THE 10-Ft MEDIAN GUL SHOULDER (12-Ft REQUIRED)
- SHOULDER WIDTH (VARIATION) - FOR THE 4-Ft MEDIAN EXPRESS LANE SHOULDER (6-Ft REQUIRED)

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

- SR 536 (750324, 750323, 750322)
- SR 535 (750367, 750368)
- DARYL CARTER PARKWAY (754115)
- CENTRAL FLORIDA PARKWAY (750142, 750200, 750402)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)
- WATER (ORANGE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (ORANGE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

- N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITH RAIL CORRIDOR
STA 1042+95.00 TO STA 1121+50.00
STA 1288+00.00 TO STA 1345+48.48

APPROVED BY

ROBERT M. DENNEN P.E.
Engineer of Record 58593

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Sheet 1B-3
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 0.528
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE VIADUCT BETWEEN SR 536 AND SR 535
STA 1121+50 TO STA 1168+50

SHEETS 1B-4

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME ORANGE

SECTION NO. 75280
ROAD DESIGNATION SR 400 (1-4)
LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE VIADUCT BETWEEN SR 535 AND DARYL CARTER PARKWAY
STA 1168+50 TO STA 1288+00

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 1B-5
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH SR 400 (1-4) BRIDGE OVER SR 535

HNTB CORPORATION 610 CRESCENT EXEC. CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 6500

FDOT CONCURRENCE ANNETTE K. BRENNAN, P.E. FDOT District Design Engineer

FHWA CONCURRENCE FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE

SECTION NO.  75280  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 9.528

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

LA R/W LINE

R/W VARIES (150' MIN)

Q CONST.

R/W VARIES (150' MIN)

LA R/W LINE

272'-10"

58'-8"

10'-4"

10'-4"

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10'-4"
# PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO.: N/A  COUNTY NAME: ORANGE

SECTION NO.: 75280  ROAD DESIGNATION: SR 400 (I-4)  LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

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<th>Ramp Segment</th>
<th>Design Speed</th>
<th>Ramp</th>
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<td>WORLD DR EB</td>
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<td>1-4 WB GUL TO 1-4 GUL WB</td>
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<td>I-4 EB TO WORLD DR EB</td>
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<td>I-4 WB EXPRESS LANES RAMP TO 1-4 WB CD ROAD</td>
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<td>I-4 WB CD RAMP TO 1-4 WB CD ROAD</td>
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<td>I-4 WB CD ROAD RAMP TO 1-4 WB GUL</td>
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<td>I-4 EB RAMP TO SR 417 NB</td>
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### PROPOSED ROADWAY TYPICAL SECTION

**SR 400 (I-4)**

ONE LANE RAMP

![SR 400 (I-4) Typical Roadway Section](image)

**Sheet 1B-8**

**FDOT CONCURRENCE**: Signature of Engineer

**FHWA CONCURRENCE**: Signature of FHWA Transportation Engineer

**Date**: 3/17/17

**Date**: 1/17/18
**PROJECT IDENTIFICATION**

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<th>FINANCIAL PROJECT ID</th>
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<th>FEDERAL AID PROJECT NO.</th>
<th>N/A</th>
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| SECTION NO. | 75280 | ROAD DESIGNATION | SR 400 (I-4) | LIMITS/MILEPOST | MP 0.000 - 9.528 |

| PROJECT DESCRIPTION | WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472. |

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**PROPOSED ROADWAY TYPICAL SECTION**

**SR 400 (I-4)**

TWO LANE RAMP

---

**FDOT CONCURRENCE**

**FHWA CONCURRENCE**

**Robert M. Denney, P.E.**

Engineer of Record: Engineering Manager 2016-2018

**Cert of Auth No 6500**

---

**HNTB CORPORATION**

610 CRESTWOOD EXEC. CT.

LAKE MARY, FL 32746

(407) 805-0355

**Cert of Auth No 6500**

---

**ANNEKE K. BRENNAN, P.E.**

FDOT District Design Engineer

**FHWA Transportation Engineer**

---

**3/17/17**

**3/17/18**
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE

SECTION NO.  75280  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 9.528

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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SR 400 (I-4)
THREE LANE RAMP

FHWA CONCURRENCE

Date

FHWA Transportation Engineer

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE

SECTION NO.  75280  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 9.528

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

Ramp                  Design Speed
SEGMENT IB
I-4 EXPRESS LANES EB TO SR 417 WB    50
SR 417 SB TO I-4 EXPRESS LANES WB    50
SR 530 EB RAMP TO I-4 WB             50
I-4 EB RAMP TO SR 530 WB             50
I-4 EB EXPRESS LANES TO SR 536/SR 535 50
SR 536 TO I-4 EB GUL                50
I-4 WB CD ROAD RAMP TO I-4 WB GUL   50
I-4 WB GUL TO SR 535 SB             50
DARYL CARTER PKWY RAMP TO I-4 WB    50
CENTRAL FL PKWY WB TO I-4 WB CD ROAD 50
I-4 WB TO CENTRAL FL PKWY            50

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4)  ONE LANE BRIDGE RAMP

FHWA CONCURRENCE

FHWA Transportation Engineer  Date

APPROVED BY

HNTB CORPORATION  610 CRESSENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355

EDWARD W. MORRIS, P.E. ENGINEER OF RECORD  NO. 58225

FHWA CONCURRENCE

FHWA Transportation Engineer  Date

AK BRENNAN  3/17/17  FDOT District Design Engineer

HNTB CORPORATION  610 CRESENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355

EDWARD W. MORRIS, P.E. ENGINEER OF RECORD  NO. 58225
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

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<td>DARYL CARTER PKWY RAMP TO I-4 EB</td>
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<td>HOTEL PLAZA BLVD TO SR 535 NB</td>
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<td>I-4 WB TO CENTRAL FL PKWY</td>
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SR 400 (I-4)
TWO LANE BRIDGE RAMP

HNTB CORPORATION
610 CRESCENT EXEC. CT., SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

SHEET 1B-12

ROBERT M. DENNIS
State of Florida
Engineer Of Record 58593

CERTIFICATE OF AUTHORIZATION

FHWA CONCURRENCE

3/17/17

FHWA Transportation Engineer

5/17/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4) THREE LANE BRIDGE RAMP
**PROJECT IDENTIFICATION**

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** ORANGE (75280)  
**PROJECT DESCRIPTION** WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

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**FUNCTIONAL CLASSIFICATION**

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**PROJECT CONTROLS (SR 536)**

**HIGHWAY SYSTEM**

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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

---

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

SR 536  
(750324, 750323, 750322)

---

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)  
WATER (ORANGE COUNTY UTILITIES)  
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
WASTEWATER (ORANGE COUNTY UTILITIES)  
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

---

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A

---

**DESIGN SPEED APPROVALS**

[Signatures]

DISTRICT DESIGN ENGINEER: 3/17/17  
DISTRICT TRAFFIC OPERATIONS ENGINEER: 4/10/17

---

**SHEET 1B-14**

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PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 60 MPH
SR 536 BRIDGE SECTION

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 1B-15
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER SR 536 EASTBOUND RAMP

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

FOOT CONCURRENCE

FHWA CONCURRENCE

DATE

HNTB CORPORATION
610 CRESCENT EXEC. CT.
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

AK Brennan  3/12/17
Annette K. Brennan, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer  11/12/18

Sheet 18-16
PROJET IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER SR 536 MAINLINE

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 18-17

APPROVED

Date

\LKM\16\pmwork\3\Jobs\59219 - 14 SARTECH\prod\Typical Section Package\typdor001-seg-1.dgn

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### PROJECT IDENTIFICATION

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** ORANGE (75280)  
**PROJECT DESCRIPTION** WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

### PROJECT CONTROLS (SR 535/APOPKA VINELAND ROAD)

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<th>5 - RESTRICTIVE w/440 ft. Connection Spacing</th>
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### DESIGN SPEED APPROVALS

- **DISTRICT DESIGN ENGINEER** 3/17/17
- **DISTRICT TRAFFIC OPERATIONS ENGINEER** 4/10/17

### LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

### LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

SR 535  
(750367, 750368)

### LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)
- WATER (ORANGE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (ORANGE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

### LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

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**PROJECT IDENTIFICATION**

**FUNCTIONAL CLASSIFICATION**

| ( ) RURAL | ( ) FREEWAY/EXPWY. | ( ) PRINCIPAL ART. | ( ) MINOR ART. |
| (X) URBAN | (X) MAJOR COLL. | ( ) MINOR COLL. | ( ) LOCAL |

**HIGHWAY SYSTEM**

<table>
<thead>
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<tr>
<td>( )</td>
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<tr>
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**ACCESS CLASSIFICATION**

| ( ) 1 - FREEWAY |
| ( ) 2 - RESTRICTIVE w/Service Roads |
| ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing |
| ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing |
| (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing |
| ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing |
| ( ) 7 - BOTH MEDIAN TYPES |

**TRAFFIC**

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**CRITERIA**

| (X) NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) RRR INTERSTATE / FREEWAY |
| ( ) RRR NON-INTERSTATE / FREEWAY |
| ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) TDLC / RRR |
| ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY) |

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

HOTEL PLAZA BOULEVARD (PROPOSED)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
COUNTY (SECTION) ORANGE (75280)
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (VINELAND AVENUE)

FUNCTIONAL CLASSIFICATION
( ) RURAL
(X) URBAN
( ) FREEWAY/EXPWY. ( ) MAJOR COLL.
( ) PRINCIPAL ART. ( ) MINOR COLL.
(X) MINOR ART. ( ) LOCAL

HIGHWAY SYSTEM
Yes No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) (X) STATE HIGHWAY SYSTEM
( ) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
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( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

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CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

VINELAND AVENUE (PROPOSED)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:
GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTMOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
 ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
**PROJECT IDENTIFICATION**

FINANCIAL PROJECT ID: 432100-1-22-01  
COUNTY (SECTION): ORANGE (75280)  
PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**FUNCTIONAL CLASSIFICATION**

- ( ) RURAL  
- ( ) URBAN  
- ( ) FREEWAY/EXPWY.  MAJOR COLL.  
- ( ) MINOR COLL.  
- (X) MINOR ART.  LOCAL

**HIGHWAY SYSTEM**

- Yes  
- No  
- ( ) NATIONAL HIGHWAY SYSTEM  
- ( ) FLORIDA INTRASTATE HIGHWAY SYSTEM  
- ( ) STRATEGIC INTERMODAL SYSTEM  
- ( ) STATE HIGHWAY SYSTEM  
- (X) OFF STATE HIGHWAY SYSTEM

**ACCESS CLASSIFICATION**

- ( ) 1 - FREEWAY  
- ( ) 2 - RESTRICTIVE w/Service Roads  
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing  
- ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing  
- (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing  
- ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing  
- ( ) 7 - BOTH MEDIAN TYPES

**TRAFFIC**

- OPENING: 2020 - 32,000  
- INTERIM: 2030 - 42,000  
- DESIGN: 2040 - 52,000

**CRITERIA**

- (X) NEW CONSTRUCTION / RECONSTRUCTION  
- ( ) RRR INTERSTATE / FREEWAY  
- ( ) RRR NON-INTERSTATE / FREEWAY  
- ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION  
- ( ) TDLC / RRR  
- ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

N/A

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)  
- WATER (ORANGE COUNTY UTILITIES)  
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
- WASTEWATER (ORANGE COUNTY UTILITIES)  
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A

---

AK Brennan  
District Design Engineer  
3/17/17

J. James  
District Traffic Operations Engineer  
4/10/17

Sheet 1B-21
**PROJECT IDENTIFICATION**

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**PROJECT DESCRIPTION**

WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (WINTER GARDEN VINELAND ROAD)**

**FUNCTIONAL CLASSIFICATION**

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**HIGHWAY SYSTEM**

- (X) NATIONAL HIGHWAY SYSTEM
- (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
- (X) STRATEGIC INTERMODAL SYSTEM
- (X) STATE HIGHWAY SYSTEM
- ( ) OFF STATE HIGHWAY SYSTEM

**ACCESS CLASSIFICATION**

- ( ) 1 - FREEWAY
- ( ) 2 - RESTRICTIVE w/Service Roads
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**TRAFFIC**

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**CRITERIA**

- (X) NEW CONSTRUCTION / RECONSTRUCTION
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- ( ) RRR NON-INTERSTATE / FREEWAY
- ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- ( ) TDLC / RRR
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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

N/A

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)
- WATER (ORANGE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTMOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (ORANGE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

FUNCTIONAL CLASSIFICATION
( ) RURAL
( ) URBAN
( ) FREEWAY/EXPWY.
( ) MAJOR COLL.
( ) PRINCIPAL ART.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM
Yes No
( ) NATIONAL HIGHWAY SYSTEM
( ) FLORIDA INTRASTATE HIGHWAY SYSTEM
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CRITERIA
( ) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
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( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

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LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

N/A

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:
GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

SHEET 1B-23
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 – 9.528
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

PROPOSED BRIDGE STRUCTURE

16'-6" MIN. VERTICAL CLEARANCE

DESIGN SPEED = 45 MPH
SR 535 ROADWAY SECTION UNDER SR 400 (I-4)

<table>
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<tr>
<th>FDOT CONCURRENCE</th>
<th>FHWA CONCURRENCE</th>
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<tr>
<td>AK Brennan</td>
<td>Date</td>
</tr>
<tr>
<td>ANNETTE K. BRENNAN, P.E.</td>
<td>Date</td>
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</tbody>
</table>

FHWA Transportation Engineer

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF JUTH NO 6500

DATE 3/17/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

DESIGN SPEED = 45 MPH
SR 535 ROADWAY SECTION WITH ELEVATED SB
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
APOPKA VINELAND ROAD ROADWAY SECTION WITH ELEVATED NB

HNTB CORPORATION
610 CRESCENT EXEC. CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO 6500

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE
FHWA Transportation Engineer

COUNTY CONCURRENCE
County Engineer

SHEET 1B-26
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 45 MPH

APOPKA VINELAND ROAD NB BRIDGE SECTION OVER HOTEL PLAZA

| SHEET 1B-27 |
|--------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| APPROVED BY  | FDOT CONCURRENCE                  | FHWA CONCURRENCE                  | COUNTY CONCURRENCE                  |
| HTB CORPORATION  | ANETTE K. BRENNAN, P.E.        | FHWA Transportation Engineer    | Joseph C.  |
| ROBERT M. DENNEY, P.E. | JDOT District Design Engineer |                           | County Engineer |
| DATE  | DATE  | DATE  | DATE  |
| 3/17/17 | 11/18/18 | 8-14-19 | 8-14-19 |
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

R/W LINE

51'-8"

1'-4"

2'-6"

SHLDR.

11'

SHLDR.

11'

11'

SHLDR.

1'-4"

CONCRETE BARRIER (TYP.)

2'-6"

0.02 0.02 0.02 0.02

DESIGN SPEED = 45 MPH
SR 535 SB BRIDGE SECTION OVER VINE LAND AVENUE

SHEET 1B-28
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE

SECTION NO. 75280  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 9.528

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

PROPOSED BRIDGE STRUCTURE

16'-6" MIN. VERTICAL CLEARANCE

Q CONST.

14' BORDER

5' 3" 12" 12" 3' 5" VARYING

CURB & GUTTER TYPE F

DESIGN SPEED = 45 MPH
HOTEL PLAZA LOOP RAMP UNDER APOPKA VINELAND ROAD NB

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 1B-29
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.328

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
SR 400 (I-4) EB OFF RAMP UNDER SR 535 SB

SHEET 1B-30

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

3/17/17  1/17/18

Date  Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 35 MPH
HOTEL PLAZA BOULEVARD - ELEVATED LEFT TURNS

HNTB CORPORATION
610 CRESCENT EXEC. CT., SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO 6500

FDOT CONCURRENCE

DATE

FHWA CONCURRENCE

DATE
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 35 MPH

VINELAND AVENUE ROADWAY SECTION

Sheet 1B-32

STATE OF FLORIDA

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

Joseph C. [Signature]
County Engineer

Date: 8-14-77
PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 35 MPH
HOTEL PLAZA BOULEVARD LEFT TURN
FLYOVER OVER APOPKA VINELAND ROAD SB

SHEET 1B-33

FDOT CONCURRENCE 3/17/17
ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE 1/17/18
FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 35 MPH
VINELAND AVENUE LEFT TURN
FLYOVER OVER SR 535 NB

CONCRETE BARRIER (TYP.)
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: ORANGE

SECTION NO.: 75280
ROAD DESIGNATION: SR 400 (1-4)
LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH

ROPKA VINELAND ROAD SB ROADWAY SECTION UNDER HOTEL PLAZA BOULEVARD BRIDGE
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  ORANGE

SECTION NO.  75280  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 0.000 - 9.528
PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

PROPOSED BRIDGE STRUCTURE

18'-6" MIN. VERTICAL CLEARANCE

Q CONST.  16 MIN.  17" BORDERS VARIES  S/W  VARIES

BIKE LANE  0.02  0.02  0.03  0.03
CURB & GUTTER TYPE F

DESIGN SPEED = 45 MPH
SR 535 NB ROADWAY UNDER VINELAND AVENUE BRIDGE

FHWA CONCURRENCE

FHWA Transportation Engineer  1/17/18

DATE

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

DATE

3/17/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID    432100-1-22-01    FEDERAL AID PROJECT NO.  N/A    COUNTY NAME  ORANGE

SECTION NO. 75280  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 0.000 - 9.528
PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
PALM PARKWAY ROADWAY SECTION
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

R/W LINE  Q. CONST.  R/W LINE

R/W VARIES (60 MIN.)

Curb & Gutter Type F

Curb & Gutter Type E

Curb & Gutter Type E

Curb & Gutter Type F

EXISTING SIDEWALK

DESIGN SPEED = 35 MPH

WINTER GARDEN VINELAND ROAD ROADWAY SECTION

SHEET 1B-38

FHWA CONCURRENCE  

FHWA Transportation Engineer  

COUNTY CONCURRENCE  

County Engineer

DATE  

11/4/17  

DATE  

11/4/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

R/W LINE
Q. CONST.
R/W VARIES (80' MIN.)
R/W LINE

12
36
12
5.7
12
12
12
16
12
12
12
12
12
12
12
3.5
2

CURB & GUTTER
CURB & GUTTER TYPE E
CURB & GUTTER TYPE E
CURB & GUTTER TYPE E

EXISTING SIDEWALK

DESIGN SPEED = 35 MPH
WINTER GARDEN VINELAND ROAD ROADWAY SECTION
(WEST OF GRAND CYPRESS BOULEVARD)

FHWA CONCURRENCE
FHWA Transportation Engineer
1/12/17

COUNTY CONCURRENCE
County Engineer
11-14-17

HNTB CORPORATION
510 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE
MARIO BIZZIO, P.E.
FDOT District Design Engineer
1/9/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO: N/A  COUNTY NAME: ORANGE

SECTION NO: 75280  ROAD DESIGNATION: SR 400 (1-4)  LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
GRAND CYPRESS BOULEVARD ROADWAY SECTION

FDOT CONCURRENCE: AK Brennan  3/17/17
FHWA CONCURRENCE: N/A  1/17/18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME ORANGE

SECTION NO. 75280   ROAD DESIGNATION SR 400 (1-4)   LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
VININGS WAY BOULEVARD ROADWAY SECTION
(EAST OF APOPKA VINELAND ROAD/CR 435)

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

COUNTY ENGINEER

9/32/12 Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME ORANGE

SECTION NO. 75280
ROAD DESIGNATION SR 400 (1-4)
LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
VININGS WAY BOULEVARD ROADWAY SECTION
(WEST OF APOPKA VINELAND ROAD/CR 435)

FHWA CONCURRENCE

COUNTY CONCURRENCE

FHWA Transportation Engineer

Date

County Engineer

Date
**PROJECT IDENTIFICATION**

<table>
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<th>PROJECT DESCRIPTION</th>
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<td>ORANGE (75280)</td>
<td>WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.</td>
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**PROJECT CONTROLS (DARYL CARTER PARKWAY)**

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<td>( ) NATIONAL HIGHWAY SYSTEM</td>
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<td>( ) FREEWAY/EXPWY.</td>
<td>(X) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<td>( ) PRINCIPAL ART.</td>
<td>( ) STRATEGIC INTERMODAL SYSTEM</td>
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<td>( ) MINOR COLL.</td>
<td>(X) STATE HIGHWAY SYSTEM</td>
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<td>(X) MINOR ART.</td>
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**ACCESS CLASSIFICATION**

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<td>2030</td>
<td>30,000</td>
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<td>4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing</td>
<td>DESIGN</td>
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<td>34,000</td>
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<td>6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing</td>
<td>DESIGN SPEED</td>
<td>40 MPH</td>
<td>7.4</td>
</tr>
<tr>
<td>7 - BOTH MEDIAN TYPES</td>
<td>POSTED SPEED</td>
<td>40 MPH</td>
<td>53.66</td>
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**CRITERIA**

| (X) NEW CONSTRUCTION / RECONSTRUCTION | DISTRIBUTION |
| ( ) RRR INTERSTATE / FREEWAY |
| ( ) RRR NON-INTERSTATE / FREEWAY |
| ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) TDLC / RRR |
| ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY) |

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

DARYL CARTER PARKWAY (754115)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

DESIGN SPEED = 70 MPH

SR 400 (1-4) UNDER DARYL CARTER PARKWAY

SHEET 1B-43

ROBERT M. DENNEY P.E.
Engineer of Record 56593

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE mary, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNEtTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME ORANGE

SECTION NO. 75280 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DARYL CARTER PARKWAY STRUCTURE SECTION
DIVERGING DIAMOND INTERCHANGE

SHEET 1B-44
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
COUNTY (SECTION) ORANGE (75280)
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (CENTRAL FLORIDA PARKWAY)

FUNCTIONAL CLASSIFICATION

( ) RURAL
( ) URBAN
( ) FREEWAY/EXPWY.
( ) MAJOR COLL.
( ) PRINCIPAL ART.
( ) MINOR COLL.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM

Yes No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) (X) STATE HIGHWAY SYSTEM
( ) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT
OPENING 2020 44,000
INTERIM 2030 53,000
DESIGN 2040 60,000

DISTRIBUTION
DESIGN SPEED 45 MPH
POSTED SPEED 45 MPH

K 7.4
D 53.66
T24 3.8%

CRITERIA

( ) (X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

CENTRAL FLORIDA PARKWAY (750142, 750200, 750402)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:
GAS (CENTRAL FLORIDA GAS)
WATER (ORANGE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (ORANGE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

SHEET 1B-45
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME ORANGE

SECTION NO. 75280  ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 9.528

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER WESTBOUND CENTRAL FLORIDA PARKWAY RAMP

* 25-FT REQUIRED FROM INSIDE FACE OF BARRIER TO INSIDE FACE OF BARRIER (HIGH SPEED RAIL ELEVATED IN THIS AREA).
** 10-FT WIDE SHOULDER USED IN LIEU OF 4-FT SHOULDER TO MEET STOPPING SIGHT DISTANCE.

FDOT CONCURRENCE  FHWA CONCURRENCE

AL Brennan 3/17/17  VALID
ANNETTE K. BRENNAN, P.E. 1/17/18
FDOT District Design Engineer

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-0-22-01  FEDERAL AID PROJECT NO.: N/A  COUNTY NAME: ORANGE

SECTION NO.: 75280  ROAD DESIGNATION: SR 400 (1-4)  LIMITS/MILEPOST: MP 0.000 - 9.528

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
CENTRAL FLORIDA PARKWAY UNDER SR 400 (1-4)

SHEET 1B-47

APPROVED BY:

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE: AK Brennan
FHWA CONCURRENCE:
COUNTY CONCURRENCE: Joseph C. Wild

Date: 3/17/17  Date: 11/17/17  Date: 8-14-17
**I-4 Beyond the Ultimate**  
**Osceola County Typical Section Package Index**  
PD&E FPID: 432100-1 (Segment 1A)  
Design FPID: 431456-1

**I-4 Mainline**
- 1A-1 Key Sheet
- 1A-2 I-4 Project Controls
- 1A-3 I-4 Typical Section with Rail Corridor (Osceola County)
- 1A-4 I-4 Typical Section Bridge Viaduct Between SR 429 and World Drive (Orange County)
- 1A-5 I-4 Bridge Over CR 532 (Replace)
- 1A-6 I-4 Bridge Over Reedy Creek (Replace)
- 1A-7 I-4 Bridge Over Bonnet Creek (Replace)

**Ramps**
- 1A-8 One Lane Ramp
- 1A-9 Two Lane Ramp
- 1A-10 Three Lane Ramp
- 1A-11 One Lane Bridge Ramp

**CR 532**
- 1A-12 CR 532 Project Controls
- 1A-13 CR 532 Roadway Section Under I-4
- 1A-14 CR 532 Roadway Section

**Tradition Boulevard**
- 1A-15 I-4 Under Tradition Blvd

**SR 429**
- 1A-16 I-4 Under SR 429 Northbound Ramp
- 1A-17 I-4 Under SR 429 Southbound to Eastbound I-4

**Old Lake Wilson Road**
- 1A-18 Old Lake Wilson Project Controls
- 1A-19 I-4 Under Old Lake Wilson Road
- 1A-20 Old Lake Wilson Road Bridge Section (Replace)
- 1A-21 Old Lake Wilson Road Section
I-4 Beyond the Ultimate
Osceola County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 1A)
Design FPID: 431456-1

World Drive
1A-22 World Drive Project Controls
1A-23 World Drive Bridge Section (Replace)
1A-24 I-4 Under Eastbound and Westbound World Drive
1A-25 World Drive Roadway Section

SR 417
1A-26 SR 417 Project Controls
1A-27 SR 417 Bridge Section (Southbound) (Replace)
1A-28 I-4 Under SR 417 (Southbound)
1A-29 SR 417 Bridge Section (Northbound)

US 192 / SR 530
1A-30 US 192 Project Controls
1A-31 US 192 Bridge Section (Replace)
1A-32 I-4 Under US 192 Eastbound Ramp
1A-33 US 192 Bridge Section (Replace)
1A-34 I-4 Under US 192
1A-35 I-4 Under Westbound Ramp to Westbound I-4
1A-36 US 192 Bridge Section (Eastbound I-4 to Westbound US 192)
1A-37 I-4 Under Westbound Ramp

Osceola Parkway
1A-38 Osceola Parkway Project Controls
1A-39 Osceola Parkway Bridge Section (Replace)
1A-40 Osceola Parkway Roadway Section (West of SR 400)
1A-41 Osceola Parkway Roadway Section (East of SR 400)
1A-42 I-4 Under Osceola Parkway
**PROJECT IDENTIFICATION**

FINANCIAL PROJECT ID: 432100-1-22-01  
COUNTY (SECTION): OSCEOLA (92130)  

**PROJECT DESCRIPTION**  
WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (SR 400/I-4)**

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<td>( ) URBAN</td>
<td>NATIONAL HIGHWAY SYSTEM</td>
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<td>(X) FREEWAY/EXPWY.</td>
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<td>(X) PRINCIPAL ART.</td>
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**ACCESS CLASSIFICATION**

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**CRITERIA**

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<tr>
<td>D</td>
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<tr>
<td>T24</td>
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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

BORDER WIDTH (VARIATION) - FOR THE BORDER WIDTHS LESS THAN 94-FT (94-FT REQUIRED)  
SHOULDER WIDTH (VARIATION) - FOR THE 10-FT MEDIAN GUL. SHOULDER (12-FT REQUIRED)  
SHOULDER WIDTH (VARIATION) - FOR THE 4-FT MEDIAN EXPRESS LANE SHOULDER (6-FT REQUIRED)

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

| CR 532  | (920094, 920095) |
| DAVENPORT CREEK | (920097) |
| REUNION ACCESS RD | (925500) |
| DITCH CULVERT | (920203) |
| SR 429  | (920601, 920602) |
| CR 545  | (924179) |
| REEDY CREEK | (920098, 920099) |
| WORLD DRIVE | (920176, 920170) |
| SR 417  | (920169) |
| US 192  | (920083, 920193, 920192, 920195, 920194) |
| BONNET CREEK | (920100, 920101) |
| OSCEOLA PARKWAY | (920180) |

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)  
WATER (OSCEOLA COUNTY UTILITIES)  
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
WASTEWATER (OSCEOLA COUNTY UTILITIES)  
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITH RAIL CORRIDOR
STA 627+20.00 TO STA 759+00.00
STA 828+00.00 TO STA 1042+95.00

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME OSCEOLA

SECTION NO. 92130   ROAD DESIGNATION SR 400 (I-4)   LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE VIADUCT BETWEEN SR 429 AND WORLD DRIVE
STA 759+00 TO STA 828+00

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FDOT CONCURRENCE

ANNETTE K. BRENNAN
FIND District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

ROBERT M. DEMPSTER
P.E.
Engineer Of Record 58593

APPROVED BY

Date

3/17/17

7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) BRIDGE OVER CR 532

FHWA CONCURRENCE 7/25/17
FHWA Transportation Engineer

Sheet 1A-5

FDOT CONCURRENCE 3/17/17
ANNETTE K. BRENNAN, P.E. FDOT District Design Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE OVER REEDY CREEK

FDOT CONCURRENCE  FHWA CONCURRENCE

HMTB CORPORATION  FHWA Transportation Engineer
610 CRESCENT EXEC. CT.,  Date
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

AK Brennan  Date
ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

Date

SHEET 1A-6
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE OVER BONNET CREEK

HNTB CORPORATION
610 CRESCENT EXEC. CT.
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

APPROVED BY

ROBERT M. DENNEY, P.E.
Engineer of Record 88553

DATE 3/17/17

DATE 7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4 EB GUL TO CR 532</td>
<td>50</td>
</tr>
<tr>
<td>CR 532 TO 1-4 WB GUL</td>
<td>50</td>
</tr>
<tr>
<td>CR 532 TO 1-4 EB GUL</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB GUL TO SR 429</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB EXPRESS LANE TO SR 429</td>
<td>50</td>
</tr>
<tr>
<td>SR 429 TO 1-4 WB EXPRESS LANE</td>
<td>30</td>
</tr>
<tr>
<td>1-4 WB EXPRESS LANE TO SR 429</td>
<td>50</td>
</tr>
<tr>
<td>1-4 WB GUL TO SR 429</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB RAMP TO OSCEOLA PKWY</td>
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<tr>
<td>OSCEOLA PKWY TO 1-4 WB GUL</td>
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</tr>
<tr>
<td>1-4 EB GUL TO OSCEOLA PKWY WB</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB GUL TO OSCEOLA PKWY WB</td>
<td>30</td>
</tr>
<tr>
<td>1-4 WB GUL TO OSCEOLA PKWY WB</td>
<td>30</td>
</tr>
<tr>
<td>1-4 EB EXPRESS LANE TO OSCEOLA PKWY EB</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB RAMP TO WB OSCEOLA PKWY</td>
<td>30</td>
</tr>
</tbody>
</table>

PROPOSED ROADWAY TYPICAL SECTION

SR 400 (I-4)
ONE LANE RAMP

SHEET 1A-8

APPROVED BY

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

AL BRENAN 3/17/17
ANNETTE K. BRENAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer 7/25/17
**PROJECT IDENTIFICATION**

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO.: N/A  COUNTY NAME: OSCEOLA

SECTION NO.: 92130  ROAD DESIGNATION: SR 400 (I-4)  LIMITS/MILEPOST: MP 0.000 - 7.885

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

<table>
<thead>
<tr>
<th>Ramp Description</th>
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<tr>
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<tr>
<td>I-4 WB GUL TO CR 532</td>
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<tr>
<td>I-4 EB RAMP TO SR 429 WB</td>
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<td>SR 429 TO I-4 WB GUL</td>
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<tr>
<td>SR 429 TO I-4 EB GUL</td>
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<tr>
<td>I-4 WB RAMP TO OSCEOLA PKWY WB</td>
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<tr>
<td>OSCEOLA PKWY TO I-4 EB GUL</td>
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</tbody>
</table>

**PROPOSED ROADWAY TYPICAL SECTION**

SR 400 (I-4)  TWO LANE RAMP

---

**FDOT CONCURRENCE**  **FHWA CONCURRENCE**

AK Brennan  3/17/17  FHWA Transportation Engineer
ANNETTE K. BRENNAN, P.E.  Date  Date
FDOT District Design Engineer

---

ROBERT M. DENNEY, P.E.  Date
Engineer, Of Record  5/23/17

HNTB CORPORATION  610 CRESCENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 6500
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

Ramp Design Speed
SEGMENT 1A
1-4 TO SR 429 50

SR 400 (1-4)
THREE LANE RAMP

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 1A-10
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

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<td>I-4 EB EXPRESS LANE TO SR 429</td>
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<td>SR 429 TO I-4 WB EXPRESS LANE</td>
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<tr>
<td>I-4 WB EXPRESS LANE TO SR 429</td>
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<tr>
<td>I-4 EB EXPRESS LANE TO OSCEOLA PKWY EB</td>
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</tr>
<tr>
<td>OSCEOLA PKWY EB RAMP TO I-4 EXPRESS LANES EB</td>
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<tr>
<td>I-4 EB RAMP TO WB OSCEOLA PKWY</td>
<td>30</td>
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</tbody>
</table>

SR 400 (I-4)
ONE LANE BRIDGE RAMP

CONCRETE BARRIER (TYP.)

SHLD: 6'-0"  15'-0"

SHLD: 6'-0"  1'-0"

HMTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CBRT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNA
P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 1A-11
### PROJECT IDENTIFICATION

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<td>OSCOLA (92130)</td>
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**WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.**

### FUNCTIONAL CLASSIFICATION

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<th>6 - Non-Restrictive w/1320 ft. Signal Spacing</th>
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<th>( )</th>
<th>7 - Both Median Types</th>
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### CRITERIA

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### TRAFFIC

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<tr>
<td>INTERIM</td>
<td>2030</td>
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<tr>
<td>DESIGN</td>
<td>2040</td>
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<td>35 MPH</td>
<td>D 53.66</td>
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<tr>
<td>T 24</td>
<td>28.5%</td>
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</table>

### Criteria Approval

- **Design Speed Approvals**
  - District Design Engineer: [Signature] 3/11/17
  - District Traffic Operations Engineer: [Signature] 4/10/17

### List Any Potential Exceptions and Variations Related to Typical Section Elements:

**N/A**

### List Major Structures Location/Description - Requiring Independent Structure Design:

- **CR 532** (920094, 920095)

### List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)
- Water (Osceola County Utilities)
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)
- Wastewater (Osceola County Utilities)
- Electric (Duke Energy Distribution, Duke Energy Transmission)

### List Other Information Pertinent to Design of Project:

**N/A**
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: OSCEOLA

SECTION NO.: 92130
ROAD DESIGNATION: SR 400 (1-4)
LIMITS/MILEPOST: MP 0.000 - 7.885

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

CR 532 ROADWAY SECTION UNDER SR 400 (1-4)
DIVERGING DIAMOND INTERCHANGE

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

County Engineer

SHEET 1A-13
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
CR 532 ROADWAY SECTION
STA 53+00 TO STA 78+00

FHWA Concordance: FDOT District Design Engineer

COUNTY CONCURRENCE: County Engineer

SHEET 1A-14

[Diagram with typical section details]

[Signatures and dates from approved parties]
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

EXISTING BRIDGE STRUCTURE

G. CONST.

EXISTING PIER

23'-0" MIN. VERTICAL CLEARANCE*

167'-0"

12' 12'

12' 12'

12' 12'

10' 10'

12' 12'

12' 12'

8' 8'

SHLD. PAVT.

SINGLE FACED GUARDRAIL (TYP.)

2" MISC. ASPHALT PAVT.

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER TRADITION BOULEVARD

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

APPROVED BY

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 0500

FHWA CONCURRENCE

FHWA Transportation Engineer

DATE

7/25/17

 SHEET 1A-15

AL Brennan 3/17/17

ANNEtte K. BreenNaN, P.E.
FDOt District Design Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

EXISTING BRIDGE STRUCTURE

EXISTING PIER

EXISTING PIER

23'-6" MIN. VERTICAL CLEARANCE*

99'-3"

22'

44'**

12'

10'

10'

10'

12'

8' SHLDR.

8' SHLDR.

4' SHLDR.

4' SHLDR.

12'

12'

12'

12'

12'

SHLDR.

SHLDR.

SHLDR.

SHLDR.

SHLDR.

SHLDR.

CONCRETE BARRIER (TYP.)

SINGLE FACED GUARDRAIL (TYP.)

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

2'-0"

DESIGN SPEED = 70 MPH

SR 400 (I-4) UNDER SR 429 NORTHBOUND RAMP

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.

** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

EXISTING BRIDGE STRUCTURE

Q CONST.

128'-0''

23'-6'' MIN. VERTICAL CLEARANCE*

44''

EXISTING PIER

149'-0''

EXISTING PIER

12''

SHLDR

PAVT.

12''

10''

SHLDR

PAVT.

8'' SHLDR

PAVT.

SHLDR

PAVT.

SINGLE FACED GUARDRAIL (TYP.)

2'' MISC. ASPHALT PAVT.

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 70 MPH

SR 400 (I-4) UNDER SR 429 SOUTHBOUND TO EASTBOUND I-4

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.

** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
FINANCIAL PROJECT ID 432100-1-22-01

COUNTY (SECTION) OSCEOLA (92130)

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT IDENTIFICATION

PROJECT CONTROLS (OLD LAKE WILSON ROAD)

FUNCTIONAL CLASSIFICATION

(x) RURAL
(x) URBAN
(x) FREEWAY/EXPWY.
( ) MAJOR COLL.
( ) PRINCIPAL ART.
( ) MINOR COLL.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM

Yes No

(x) NATIONAL HIGHWAY SYSTEM
(x) FLORIDA INTRASTATE HIGHWAY SYSTEM
(x) STRATEGIC INTERMODAL SYSTEM
(x) STATE HIGHWAY SYSTEM
(x) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(x) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
(x) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT

OPENING 2020 15,949
INTERIM 2030 25,979
DESIGN 2040 43,317

DISTRIBUTION

DESIGN SPEED 45 MPH K 7.4
POSTED SPEED 45 MPH D 53.66
T 24 5.0%

CRITERIA

(x) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

OLD LAKE WILSON ROAD (924179)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (OSCEOLA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (OSCEOLA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

District Design Engineer

Date

District Traffic Operations Engineer

Date

Sheet 1A-18
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

[Diagram of road layout with dimensions and notes]

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER OLD LAKE WILSON ROAD

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

ROBERT M. DENNEY, P.E.
Engineer of Record 58593

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

AL Berman
Date

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date

Sheet 1A-19
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 45 MPH
OLD LAKE WILSON ROAD BRIDGE OVER SR 400 (I-4)
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01    FEDERAL AID PROJECT NO. N/A       COUNTY NAME OSCEOLA

SECTION NO. 92130    ROAD DESIGNATION SR 400 (1-4)    LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
                  FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

R/W VARIIES (80' MIN.)

R/W LINE

R/W LINE

12'
5'
5'
5'
11'
11'
26'-0'
26'-0'
40'-0'
19 MIN.
10 MIN.
6 MIN.

BORDER

BIKE LANE

BIKE LANE

S/W

O.02

O.02

O.02

O.02

S/W

CURB & GUTTER TYPE E

CURB & GUTTER TYPE F

CURB & GUTTER TYPE F

CURB & GUTTER TYPE F

Natural Ground

Natural Ground

DESIGN SPEED = 45 MPH

OLD LAKE WILSON ROAD

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT DISTRICT DESIGN ENGINEER

FHWA CONCURRENCE

FHWA TRANSPORTATION ENGINEER

COUNTY CONCURRENCE

COUNTY ENGINEER

SHEET 1A-21

ROBERT M. DENVER, P.E.
ENGINEER OF RECORD 58593

R.N. BRIASSON, P.E.
CONSULTING ENGINEER 58593

K. L. BARRON, P.E.
CONSULTING ENGINEER 58593

SHEET 1A-21

APPROVED

DATE

CERTIFICATE OF AUTHORIZATION

DATE

APPROVED

DATE

CERTIFICATE OF AUTHORIZATION

DATE
### Project Identification

- **Financial Project ID:** 432100-1-22-01
- **County (Section):** Osceola (92130)
- **Project Description:** Widening SR 400 (I-4) from west of CR 532 to west of SR 435 (Kirkman Rd.) and from 1 mile east of SR 434 to 1/2 mile east of SR 472.

### Functional Classification

<table>
<thead>
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<th>Type</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Rural</td>
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<tr>
<td>Urban</td>
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<tr>
<td>Freeway/Expwy</td>
<td>Major Coll.</td>
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<tr>
<td>Principal Art.</td>
<td>Minor Coll.</td>
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<td>Minor Art.</td>
<td>Local</td>
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### Highway System

- Yes
- No

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<tr>
<td>National Highway System</td>
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<tr>
<td>Florida Intrastate Highway System</td>
<td>(X)</td>
</tr>
<tr>
<td>Strategic Intermodal System</td>
<td>(X)</td>
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<tr>
<td>State Highway System</td>
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<tr>
<td>Off State Highway System</td>
<td>(X)</td>
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### Access Classification

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1 - Freeway</td>
<td>2 - Restrictive w/Service Roads</td>
</tr>
<tr>
<td>3 - Freeway</td>
<td>6/60 ft. Connection Spacing</td>
</tr>
<tr>
<td>4 - Non-Restrictive</td>
<td>w/2640 ft. Signal Spacing</td>
</tr>
<tr>
<td>5 - Freeway</td>
<td>4/40 ft. Connection Spacing</td>
</tr>
<tr>
<td>6 - Non-Restrictive</td>
<td>w/1320 ft. Signal Spacing</td>
</tr>
<tr>
<td>7 - Both Median Types</td>
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</tr>
</tbody>
</table>

### Criteria

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Construction</td>
<td>/ Reconstruction</td>
</tr>
<tr>
<td>RRR Interstate</td>
<td>/ Freeway</td>
</tr>
<tr>
<td>RRR Non-Interstate</td>
<td>/ Freeway</td>
</tr>
<tr>
<td>TDLC / New Construction</td>
<td>/ Reconstruction</td>
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<tr>
<td>TDLC / RRR</td>
<td>Manual of Uniform Minimum Standards (Florida Greenbook) (Off-State Highway System Only)</td>
</tr>
</tbody>
</table>

### Traffic

- **Year AADT**
  - Opening: 2020, 29,000
  - Interim: 2030, 34,000
  - Design: 2040, 39,000

### Design Speed Approvals

- **Design Speed:** 40 MPH
- **Distribution:**
  - K: 7.4
  - D: 53.66
  - T24: 3.2%

### List Any Potential Exceptions and Variations Related to Typical Section Elements:

N/A

### List Major Structures Location/Description - Requiring Independent Structure Design:

World Drive (920176, 920170)

### List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)
- Water (Osceola County Utilities)
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)
- Wastewater (Osceola County Utilities)
- Electric (Duke Energy Distribution, Duke Energy Transmission)

### List Other Information Pertinent to Design of Project:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 40 MPH
WORLD DRIVE BRIDGE OVER SR 400 (1-4)

Sheet 1A-23
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER EASTBOUND AND WESTBOUND WORLD DRIVE

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

SHEET 1A-24

APPROVED BY

ROBERT M. DANLEY, P.E.
Engineer of Design

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date
PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
WORLD DRIVE ROADWAY SECTION

Sheet 1A-25
## PROJECT IDENTIFICATION

<table>
<thead>
<tr>
<th>FINANCIAL PROJECT ID</th>
<th>COUNTY (SECTION)</th>
<th>PROJECT DESCRIPTION</th>
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<tbody>
<tr>
<td>432100-1-22-01</td>
<td>OSCEOLA (92130)</td>
<td>WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.</td>
</tr>
</tbody>
</table>

## PROJECT CONTROLS (SR 417)

### FUNCTIONAL CLASSIFICATION

- ( ) RURAL
- ( ) URBAN
- ( ) FREeway/EXPWY.
- ( ) MAJOR COLL.
- ( ) PRINCIPAL ART.
- ( ) MINOR COLL.
- ( ) MINOR ART.
- ( ) LOCAL

### HIGHWAY SYSTEM

- Yes No
  - (X) NATIONAL HIGHWAY SYSTEM
  - ( ) FLORIDA INTRASTATE HIGHWAY SYSTEM
  - (X) STRATEGIC INTERMODAL SYSTEM
  - (X) STATE HIGHWAY SYSTEM
  - (X) OFF STATE HIGHWAY SYSTEM

### ACCESS CLASSIFICATION

- (X) 1 - FREeway
- ( ) 2 - RESTRICTIVE w/Service Roads
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
- ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- ( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
- ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- ( ) 7 - BOTH MEDIAN TYPES

### TRAFFIC

<table>
<thead>
<tr>
<th>YEAR</th>
<th>AADT</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPENING</td>
<td>2020</td>
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<tr>
<td>INTERIM</td>
<td>2030</td>
</tr>
<tr>
<td>DESIGN</td>
<td>2040</td>
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### DISTRIBUTION

- DESIGN SPEED 55 MPH
- POSTED SPEED 50 MPH

### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION
- ( ) RRR INTERSTATE / FREeway
- ( ) RRR NON-INTERSTATE / FREeway
- ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- ( ) TDLC / RRR
- ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

### DESIGN SPEED APPROVALS

- DISTRICT DESIGN ENGINEER: AK Burrell 3/17/17
- DISTRICT TRAFFIC OPERATIONS ENGINEER: 4/11/17

## LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

## LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

SR 417 (920169)

## LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)
- WATER (OSCEOLA COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (OSCEOLA COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

## LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  
FEDERAL AID PROJECT NO. N/A  
COUNTY NAME OSCEOLA

SECTION NO. 92130  
ROAD DESIGNATION SR 400 (I-4)  
LIMITS/MILEPOST MP 0.000 - 7.885  
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND  
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 55 MPH  
SR 417 SOUTHBOUND BRIDGE SECTION

[Diagram with dimensions and markings]

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.  
FDOT District Design Engineer  
Date  3/17/17

FHWA CONCURRENCE

FHWA Transportation Engineer  
Date  7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

\[
\text{\begin{tabular}{c}
\text{DESIGN SPEED = 70 MPH} \\
\text{SR 400 (1-4) UNDER SR 417 SOUTHBOUND} \\
\text{* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.} \\
\text{** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.} \\
\end{tabular}}
\]

SHEET 1A-28

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 COUNTY (SECTION) OSCEOLA (92130)
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1/2 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (US 192/SR 530)

FUNCTIONAL CLASSIFICATION

( ) RURAL
(X) URBAN
( ) FREEWAY/EXPWAY
( ) MAJOR COLL.
(X) PRINCIPAL ART.
( ) MINOR COLL.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM

Yes No
(X) NATIONAL HIGHWAY SYSTEM
( ) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) STRATEGIC INTERMODAL SYSTEM
( ) STATE HIGHWAY SYSTEM
( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT
OPENING 2020 55,000
INTERIM 2030 64,000
DESIGN 2040 74,000

DISTRIBUTION

DESIGN SPEED 50 MPH K 7.4
POSTED SPEED 50 MPH D 53.66
T 24 3.9%

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS
   (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

US 192 (920083, 920193, 920192, 920195, 920194)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (OSCEOLA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUS NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (OSCEOLA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

ACKNOWLEDGED

DATE

DISTRICT DESIGN ENGINEER

DATE

DISTRICT TRAFFIC OPERATIONS ENGINEER

SHEET 1A-30
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 50 MPH
US 192/SR 530 EASTBOUND RAMP BRIDGE SECTION
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 424 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

23'-6" MIN. VERTICAL CLEARANCE*

SINGLE FACED GUARDRAIL (TYP.)  ***3'-6" MAX PIER WIDTH

DESIGN SPEED = 70 MPH

SR 400 (1-4) UNDER US 192/SR 530 EASTBOUND RAMP

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.

** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

R/W LINE

R/W VARIES (116' MIN.)

230'-5"

R/W VARIES (116' MIN.)

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 50 MPH
US 192/SR 530 BRIDGE SECTION

SHEET 1A-33

ROBERT M. DENNIS, P.E.    Date
Engineer of Record 58593

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

2/3/13 PM \SAMP\TECHPUDO\Typical Section Package\YORD01-SEG-1.DGN
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME OSCEOLA

SECTION NO. 92130
ROAD DESIGNATION SR 400 (1-4)
LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER US 192/SR 530

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

SHEET 1A-34
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID _____432100-1-22-01_____
FEDERAL AID PROJECT NO. ______N/A______
COUNTY NAME ______OSCEOLA_____

SECTION NO. 92130
ROAD DESIGNATION SR 400 (I-4)
LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

CONCRETE BARRIER (TYP.)
SINGLE FACED GUARDRAIL (TYP.)
EXISTING PIER
6' CONST.
EXISTING BRIDGE STRUCTURE

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER US 192/SR 530 WESTBOUND RAMP TO WESTBOUND SR 400 (I-4)

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF
FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

SHEET 1A-35

APPROVED BY

ROBERT M. DENNIS, P.E.
P.O. Box 12985
Tallahassee, FL 32308
(904) 545-8918
FHWA Transportation Engineer

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
310 CRESCENT CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FHWA CONCURRENCE

3/17/17

7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 50 MPH
SR US 192/SR 530 BRIDGE SECTION
EASTBOUND SR 400 (1-4) TO WESTBOUND SR US 192/SR 530 RAMP

SHEET 1A-36

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01    FEDERAL AID PROJECT NO. N/A    COUNTY NAME OSCEOLA

SECTION NO. 92130    ROAD DESIGNATION SR 400 (I-4)    LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

CONCRETE BARRIER (TYP.)

SINGLE FACED GUARDRAIL (TYP.)

3-6" MAX PIER WIDTH

23'-6" MIN. VERTICAL CLEARANCE*

DESIGN SPEED = 70 MPH

SR 400 (I-4) UNDER EASTBOUND SR 400 (I-4) RAMP TO US 192/SR 530 WESTBOUND

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
COUNTY (SECTION) OSCEOLA (92130)
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (OSCEOLA PARKWAY)

FUNCTIONAL CLASSIFICATION

( ) RURAL
(X) URBAN
( ) FREEWAY/EXPWY.
( ) MAJOR COLL.
(X) PRINCIPAL ART.
( ) MINOR COLL.
( ) MINOR ART.
( ) LOCAL

HIGHWAY SYSTEM

Yes No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) (X) STATE HIGHWAY SYSTEM
( ) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

(X) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT
OPENING 2020 53,000
INTERIM 2030 61,000
DESIGN 2040 69,000

DISTRIBUTION

DESIGN SPEED 45 MPH
POSTED SPEED 45 MPH

K 7.4
D 53.66
T 5.0%

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

OSCEOLA PARKWAY (920180)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (OSCEOLA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (OSCEOLA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 45 MPH
OSCEOLA PARKWAY BRIDGE OVER SR 400 (1-4)
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME OSCEOLA

SECTION NO. 92130 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH

OSCEOLA PARKWAY ROADWAY SECTION (WEST OF SR 400)

FHWA CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FHWA Transportation Engineer

COUNTY CONCURRENCE

County Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 7.885

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
OSCEOLA PARKWAY ROADWAY SECTION (EAST OF SR 400)
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME: OSCEOLA

SECTION NO. 92130  ROAD DESIGNATION: SR 400 (I-4)  LIMITS/MILEPOST: MP 0.000 - 7.885

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

CONCRETE BARRIER (TYP.) *** 3'-6" MAX PIER WIDTH

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER OSCEOLA PARKWAY

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER (SPECIAL VERTICAL CLEARANCE REQUIRED FOR THE CONSTRUCTION OF THE I-4 BRIDGES UNDER OSCEOLA PARKWAY).

** 44" REQUIRED FOR FUTURE RAIL CORRIDOR. FUTURE RAIL CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

FROM: HNTB CORPORATION
610 CRESTED EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

APPROVED BY

ROBERT M. DAWIE, P.E.
Engineer 14, Class 10

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FOOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

DATE: 7/25/17
I-4 Beyond the Ultimate
Seminole County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 3)
Design FPID: 242592-4

I-4 Mainline
3-1 Key Sheet
3-2 I-4 Project Controls
3-3 I-4 Typical Section Without Transit Corridor & 3 General Use Lanes
3-4 I-4 Typical Section Without Transit Corridor & 4 General Use Lanes
3-5 I-4 Bridge Over Wekiva Parkway
3-6 I-4 Bridge Over SR 46 (Widen)
3-7 I-4 Bridge Over CR 431 (Orange Boulevard) And Sunrail Corridor (Widen)

Ramps
3-8 One Lane Ramp
3-9 Two Lane Ramp
3-10 Three Lane Ramp
3-11 One Lane Bridge Ramp
3-12 Two Lane Bridge Ramp
3-13 Three Lane Bridge Ramp

EE Williamson Road
3-14 EE Williamson Road Project Controls
3-15 EE Williamson Road Bridge Section (Replace)
3-16 EE Williamson Road Roadway Section
3-17 I-4 Under EE Williamson Road

Lake Mary Boulevard
3-18 Lake Mary Boulevard Project Controls
3-19 Lake Mary Boulevard Bridge Section (Replace)
3-20 Lake Mary Boulevard Roadway Section
3-21 I-4 Under Lake Mary Boulevard

Lake Emma Road
3-22 Lake Emma Road Project Controls
3-23 Lake Emma Road Roadway Section

Rinehart Road
3-24 Rinehart Road Project Controls
3-25 Rinehart Road Roadway Section
Cross Seminole Trail
3-26  I-4 Under Cross Seminole Trail

CR 46A
3-27  CR 46A Project Controls
3-28  CR 46A Bridge Section (Replace)
3-29  CR 46A Roadway Section
3-30  I-4 Under CR 46A

SR 46
3-31  SR 46 Project Controls
3-32  SR 46 under I-4

CR 431 (Orange Blvd)
3-33  CR 431 (Orange Blvd) Roadway Section

US 17/92
3-34  US 17/92 Project Controls
3-35  US 17/92 Bridge Section (New Bridge)
3-36  US 17/92 (CR 15, Monroe Rd.) Roadway Section
3-37  US 17/92 Bridge Section (Tie-To Existing Bridge Over St. Johns River)
3-38  I-4 Under US 17/92
3-39  Old US 17/92 Roadway Section Under I-4
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT ID 432100-1-22-01
(FEDERAL FUNDS)

SEMINOLE COUNTY (77160)

STATE ROAD NO. 400 (I-4)
1-4 BEYOND THE ULTIMATE
TYPICAL SECTION PACKAGE

BEGIN SEGMENT 3
@ EXIST. SR 400
STA. 2043+71.32
MP 4.050 (SEMINOLE CO.)

END SEGMENT 3
@ EXIST. SR 400
STA. 2583+00.00
MP 0.086 (VOLUSIA CO.)

PROJECT LENGTH IS BASED ON Q OF CONSTRUCTION

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FDOT PROJECT MANAGER: BEATA STYŚ-PALASZ, PE
### PROJECT IDENTIFICATION

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** SEMINOLE (77160)

**PROJECT DESCRIPTION** WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

### FUNCTIONAL CLASSIFICATION

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### HIGHWAY SYSTEM

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<th>MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)</th>
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### TRAFFIC

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### DESIGN SPEED APPROVALS

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<th>DISTRICT TRAFFIC OPERATIONS ENGINEER</th>
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### LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

- **BORDER WIDTH (VARIATION)** - FOR THE BORDER WIDTHS LESS THAN 94-FT (94-FT REQUIRED)
- **SHOULDER WIDTH (VARIATION)** - FOR THE 10-FT MEDIAN GUL SHOULDER (12-FT REQUIRED)
- **SHOULDER WIDTH (VARIATION)** - FOR THE 4-FT MEDIAN EXPRESS LANE SHOULDER (6-FT REQUIRED)

### LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

- **EE WILLIAMSON RD.** (770018)
- **PEDESTRIAN BRIDGE** (774051)
- **LAKE MARY BLVD.** (770040, 770039)
- **PEDESTRIAN BRIDGE** (774049)
- **CR 46A** (770077)
- **SR 417** (770008, 770910)
- **SR 46** (770084, 770085)
- **OUTFALL DITCH** (770029)
- **ORANGE BLVD & CSX RR** (770082, 770087)
- **US 17-92** (PROPOSED)

### LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- **GAS** (CENTRAL FLORIDA GAS)
- **WATER** (SEMINOLE COUNTY UTILITIES, VOLUSIA COUNTY UTILITIES)
- **COMMUNICATIONS** (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- **WASTEWATER** (SEMINOLE COUNTY UTILITIES, VOLUSIA COUNTY UTILITIES)
- **ELECTRIC** (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

### LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME  SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 4.050 – 14.135

PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) WITHOUT TRANSIT CORRIDOR
STA 2244+00.00 TO 2578+48.33

FHWA CONCURRENCE

FHWA Transportation Engineer
Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) WITHOUT TRANSIT CORRIDOR
STA 2079+37.95 TO 2244+00.00

SHEET 3-4

FDOT CONCURRENCE

FHWA CONCURRENCE
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE OVER WEKIVA PARKWAY

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 3-5
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH SR 400 (I-4) BRIDGE OVER SR 46

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E. FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

STATE OF

ROBERT M. DENNEY, P.E. Engineering Manager

HNTB CORPORATION 610 CRESCENT EXEC. CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 65500

mbacel

2:36:34 PM \1\LMunDp\pymwork\3\job#95219 - 14 SAMI-TECHPROD\Typical Section Package\TPRD01-I-4 TYPICALS.DSR
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 4.050 - 14.135

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE OVER CR 431 (ORANGE BLVD.) AND SUNRAIL CORRIDOR

FDOT CONCURRENCE  ANNETTE K. BRENNAN, P.E.
FHWA CONCURRENCE  FHWA Transportation Engineer

Date  3/17/17  7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01
FEDERAL AID PROJECT NO.  N/A
COUNTY NAME  SEMINOLE

SECTION NO.  77160
ROAD DESIGNATION  SR 400 (I-4)
LIMITS/MILEPOST  MP 4.050 - 14.135
PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

SR 400 (I-4)
ONE LANE RAMP

ROBERT M. DENNEY, P.E.
Engineer

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date

3-17-17

Date

3-25-17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME SEMINOLE

SECTION NO. 77160   ROAD DESIGNATION SR 400 (I-4)   LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

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PROPOSED ROADWAY TYPICAL SECTION

SR 400 (I-4) TWO LANE RAMP

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEGMENT 3</td>
<td></td>
</tr>
<tr>
<td>LAKE MARY BLVD TO 1-4 WB GUL</td>
<td>50</td>
</tr>
<tr>
<td>1-4 EB TO LAKE MARY BLVD</td>
<td>50</td>
</tr>
<tr>
<td>CR 46A TO 1-4 EB</td>
<td>50</td>
</tr>
<tr>
<td>SR 417 GUL RAMP TO 1-4 EB GUL</td>
<td>50</td>
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</tbody>
</table>

SR 400 (I-4) THREE LANE RAMP

FHWA CONCURRENCE

FHWA Transportation Engineer 7/25/17

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E. Date
FDOT District Design Engineer
# PROJECT IDENTIFICATION

- **FINANCIAL PROJECT ID**: 432100-1-22-01
- **FEDERAL AID PROJECT NO.**: N/A
- **COUNTY NAME**: SEMINOLE

**SECTION NO.**: 77160  
**ROAD DESIGNATION**: SR 400 (1-4)  
**LIMITS/MILEPOST**: MP 4.050 - 14.135

**PROJECT DESCRIPTION**: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

## PROPOSED STRUCTURE TYPICAL SECTION

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<thead>
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<td>LAKE EMMA RD TO 1-4 EB GUL</td>
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<tr>
<td>CR 46A RAMP TO 1-4 EB GUL</td>
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<tr>
<td>SR 429 NB RAMP TO 1-4 EB</td>
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<td>1-4 EB GUL TO SR 429</td>
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**SR 400 (1-4)**  
**ONE LANE BRIDGE RAMP**

---

**FDOT CONCURRENCE**

- **AL BRENNAN**: Date: 3/17/17  
- **ANNETTE K. BRENNAN**, P.E.: FDOT District Design Engineer

**FHWA CONCURRENCE**

- **FHWA**: Date: 7/25/17  
- FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

<table>
<thead>
<tr>
<th>Ramp</th>
<th>Design Speed</th>
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<tbody>
<tr>
<td>SEGMENT 3</td>
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<td>US 17/92 GUL RAMP TO I-4 WB GUL</td>
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<td>MONROE RD GUL RAMP TO I-4 EB GUL</td>
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SR 400 (I-4) TWO LANE BRIDGE RAMP

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01       FEDERAL AID PROJECT NO. N/A       COUNTY NAME SEMINOLE

SECTION NO. 77160       ROAD DESIGNATION SR 400 (I-4)       LIMITS/MILEPOST MP 4.050 - 14.135
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4)
THREE LANE BRIDGE RAMP

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

ROBERT M. DENNETT, P.E.

License No. 58593

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

3/17/17

7/25/17

Date

Date
WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

FUNCTIONAL CLASSIFICATION

- RURAL
- URAN
- FREEWAY/EXPWY.
- MAJOR COLL.
- PRINCIPAL ART.
- MINOR COLL.
- MINOR ART.
- LOCAL

HIGHWAY SYSTEM

- NATIONAL HIGHWAY SYSTEM
- FLORIDA INTRASTATE HIGHWAY SYSTEM
- STRATEGIC INTERMODAL SYSTEM
- STATE HIGHWAY SYSTEM
- OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

- 1 - FREEWAY
- 2 - RESTRICTIVE w/Service Roads
- 3 - RESTRICTIVE w/660 ft. Connection Spacing
- 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
- 5 - RESTRICTIVE w/440 ft. Connection Spacing
- 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
- 7 - BOTH MEDIAN TYPES

TRAFFIC

- OPENING: 2020, AADT: 10,983
- INTERIM: 2030, AADT: 11,093
- DESIGN: 2040, AADT: 11,205

CRITERIA

- NEW CONSTRUCTION / RECONSTRUCTION
- RRR INTERSTATE / FREEWAY
- RRR NON-INTERSTATE / FREEWAY
- TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- TDLC / RRR
- MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

EE WILLIAMSON ROAD (770018)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)
- WATER (SEMINOLE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (SEMINOLE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 40 MPH
EE WILLIAMSON BRIDGE SECTION
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
EE WILLIAMSON ROADWAY SECTION

[Diagram of a typical roadway section with annotations]

R/W LINE
R/W VARIES (46' MIN)
R/W VARIES (34' MIN.)
10' BORDER VARIES
24' MIN.
10' BORDER VARIES
5' S/W
12'/12'
BIKE LANE
BIKE LANE
11'/11'
5/5'
CURB & GUTTER TYPE F
CURB & GUTTER TYPE F
Natural Ground
Natural Ground

SHEET 3-16

[Signatures and dates from various parties involved in the project]
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER EE WILLIAMSON ROAD
**PROJECT IDENTIFICATION**

FINANCIAL PROJECT ID: 432100-1-22-01

COUNTRY (SECTION): SEMINOLE (77160)

PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**FUNCTIONAL CLASSIFICATION**

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**HIGHWAY SYSTEM**

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**ACCESS CLASSIFICATION**

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<th>7 - BOTH MEDIAN TYPES</th>
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**TRAFFIC**

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**CRITERIA**

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<tr>
<th>(OFF-STATE HIGHWAY SYSTEM ONLY)</th>
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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

LAKE MARY BOULEVARD (770040, 770039)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)
WATER (SEMINOLE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (SEMINOLE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

LAKE MARY BOULEVARD BRIDGE SECTION
DIVERGING DIAMOND INTERCHANGE

SHEET 3-19

FDOT CONCURRENCE ANNETTE K. BRENNAN, P.E. FDOT District Design Engineer

FHWA CONCURRENCE FHWA Transportation Engineer

COUNTY CONCURRENCE County Engineer

Date 06-05-17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
LAKE MARY BOULEVARD ROADWAY SECTION (EAST OF SR 400)

Sheet 3-20

ROBERT M. DENNEY, P.E.
Project Engineer

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

Date

Date

Date
**PROJECT IDENTIFICATION**

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**PROJECT CONTROLS (LAKE EMMA ROAD)**

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<th>FUNCTIONAL CLASSIFICATION</th>
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<td>( ) OFF STATE HIGHWAY SYSTEM</td>
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**ACCESS CLASSIFICATION**

| ( ) 1 - FREEWAY |
| ( ) 2 - RESTRICTIVE w/Service Roads |
| ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing |
| ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing |
| (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing |
| ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing |
| ( ) 7 - BOTH MEDIAN TYPES |

**TRAFFIC**

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**CRITERIA**

| (X) NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) RRR INTERSTATE / FREEWAY |
| ( ) RRR NON-INTERSTATE / FREEWAY |
| ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) TDLC / RRR |
| ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY) |

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

N/A

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)
- WATER (SEMINOLE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (SEMINOLE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
FEDERAL AID PROJECT NO.: N/A
COUNTY NAME: SEMINOLE
SECTION NO.: 77160
ROAD DESIGNATION: SR 400 (I-4)
LIMITS/MILEPOST: MP 4.050 - 14.135
PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
LAKE EMMA ROAD ROADWAY SECTION

FOOT CONCURRENCE: 3/17/17
FHWA CONCURRENCE: 7/25/17

FHWA Transportation Engineer

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01
COUNTY (SECTION): SEMINOLE (77160)
PROJECT DESCRIPTION:
WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.)
AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (RINEHART ROAD)

FUNCTIONAL CLASSIFICATION
( ) RURAL
( ) URBAN
( ) FREEWAY/EXPWY.
( ) PRINCIPAL ART.
( ) MINOR ART.
( ) MAJOR COLL.
( ) MINOR COLL.
( ) LOCAL

HIGHWAY SYSTEM
Yes No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) (X) STATE HIGHWAY SYSTEM
( ) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION
( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/600 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR AADT
OPENING 2020 44,000
INTERIM 2030 48,900
DESIGN 2040 53,600

DISTRIBUTION
DESIGN SPEED 45 MPH
K 9.0
POSTED SPEED 45 MPH
D 53.10
T 10.2%

CRITERIA
( ) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS
(FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

N/A

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

N/A

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:
GAS (CENTRAL FLORIDA GAS)
WATER (SEMINOLE COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (SEMINOLE COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 4.050 - 14.135
PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
RINEHART ROAD ROADWAY SECTION

SHEET 3-25

ROBERT M. DENNEY
LICENSE No. 58593

FDOT CONCURRENCE
MARIO BIZZI, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE
FLA2012FHWA

COUNTY CONCURRENCE

06-05-17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-12-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME SEMINOLE

SECTION NO. 77160   ROAD DESIGNATION SR 400 (1-4)   LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER CROSS SEMINOLE TRAIL
## PROJECT IDENTIFICATION

**FINANCIAL PROJECT ID**: 432100-1-22-01  
**COUNTY (SECTION)**: SEMINOLE (77160)

**PROJECT DESCRIPTION**: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

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|   | T24 12.2% |

### LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

### LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

CR 46A  (770077)

### LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)
- WATER (SEMINOLE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTMOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (SEMINOLE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

### LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 30 MPH
CR 46A BRIDGE SECTION
DIVERGING DIAMOND INTERCHANGE

ROBERT M. DENNE
LICENSE NO. 589203
State of Florida

Approved By

FDOT CONCURRENCE

FHWA CONCURRENCE

COUNTY CONCURRENCE

Annette K. Brennan, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

County Engineer

Date

Date

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 4.050 - 14.135
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH CR 46A ROADWAY SECTION

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

County Engineer

SHEET 3-29

DATE: 06-05-17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER CR 46A

FDOT CONCURRENCE

ANNETTE K. BRENNAN
P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 3-30
**PROJECT IDENTIFICATION**

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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

SR 46 (770084, 770085)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

- GAS (CENTRAL FLORIDA GAS)
- WATER (SEMINOLE COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (SEMINOLE COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
SR 46 UNDER SR 400 (1-4)

SHEET 3-32

FHWA CONCURRENCE

FHWA Transportation Engineer  Date

EFFECTIVE

FHWA CONCURRENCE

FHWA Transportation Engineer  Date

EFFECTIVE

EFFECTIVE

EFFECTIVE

EFFECTIVE

EFFECTIVE

EFFECTIVE

EFFECTIVE
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 35 MPH CR 431 (ORANGE BOULEVARD) ROADWAY SECTION (WEST OF MONROE RD.)

Sheet 3-33A

NO. 55593

APPROVED BY

STATE OF

ROBERT M. DENNEY
LICENSE

FHWA CORPORATION
110 CRESCENT EXEC. CT.
SUITE 400
LAKE NAY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6300

FDOT CONCURRENCE

MARIO BIZZIO, P.E.
FDOT District Design Engineer

EHPA CONCURRENCE

FHWA TRANSPORTATION ENGINEER

COUNTY CONCURRENCE

Date

Date

Date

06-05-17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME SEMINOLE

SECTION NO. 77160 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 35 MPH CR 431 (ORANGE BOULEVARD) ROADWAY SECTION (EAST OF MONROE RD.)
**PROJECT IDENTIFICATION**

**FINANCIAL PROJECT ID**

432100-1-22-01

**COUNTY (SECTION)**

SEMINOLE (77160)

**PROJECT DESCRIPTION**

WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**FUNCTIONAL CLASSIFICATION**

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<td>A. L. Brennan</td>
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<th>District Traffic Operations Engineer</th>
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<td>James M. Stell</td>
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**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

US 17-92

(Proposed)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)
WATER (SEMINOLE COUNTY UTILITIES, VOLUSIA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (SEMINOLE COUNTY UTILITIES, VOLUSIA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND 
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 45 MPH 
US 17/92 BRIDGE SECTION

CONCRETE BARRIER (TYP.)

CONCRETE TRAFFIC SEPARATOR

FHWA CONCURRENCE

FHWA Transportation Engineer 
Date

STATE OF FL

APPROVED BY

ROBERT M. DENNEY, P.E.
Engineer of Record 98503

HNTB CORPORATION
510 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

Date

SHEET 3-35
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID    432100-1-22-01   FEDERAL AID PROJECT NO.    N/A   COUNTY NAME    SEMINOLE

SECTION NO. 77160    ROAD DESIGNATION    SR 400 (1-4)    LIMITS/MILEPOST    MP 4.050 - 14.135
PROJECT DESCRIPTION    WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 35 MPH
US 17/92 (CR 15, MONROE ROAD) ROADWAY SECTION

SHEET 3-36

[Diagram of road design with typical section details]

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE
ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE
FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME SEMINOLE

SECTION NO. 77160   ROAD DESIGNATION SR 400 (I-4)   LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 45 MPH
US 17/92 BRIDGE SECTION
(TIE-TO EXISTING BRIDGE OVER ST. JOHNS RIVER)

FDOT CONCURRENCE

AK Brennan 3/17/17

FHWA CONCURRENCE

FHWA Transportation Engineer

7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

CONCRETE BARRIER (TYP.)

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER US 17/92

HNTB CORPORATION
630 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE  FHWA CONCURRENCE

AK Brennan  Date  Charles H. Date

FHWA Transportation Engineer

SHEET 3-38
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME SEMINOLE

SECTION NO. 77160  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 4.050 - 14.135

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 30 MPH
OLD US 17/92 ROADWAY SECTION UNDER SR 400 (1-4)

SHEET 3-39

ROBERT M. DENNE

LICENSE No. 58592

STATE OF

R. M. DENNEY

PROFESSIONAL ENGINEER

HNTB CORPORATION
630 CRESCENT EXEC. CT., SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNA, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date

Date
I-4 Beyond the Ultimate
Volusia County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 4)
Design FPID: 408464-2

I-4 Mainline
4-1  Key Sheet
4-2  I-4 Project Controls
4-3  I-4 typical Section with Transit Corridor & 2 Express Lanes
4-4  I-4 typical Section with Transit Corridor & 1 Express Lane
4-5  I-4 typical Section with Transit Corridor & No Express Lane
4-6  I-4 Bridge Over St. Johns River (Widen)
4-7  I-4 Bridge on the Debary Causeway (New Bridge)
4-8  I-4 Bridge Over Padgett Creek (Replace)
4-9  I-4 Bridge Over Dirksen Drive/Debary Avenue (Replace)

Ramps
4-10 One Lane Ramp
4-11 One Lane Express Lane Ramp
4-12 Two Lane Ramp
4-13 Three Lane Ramp

Dirksen Drive
4-14 Dirksen Drive Project Controls
4-15 Dirksen Drive Under I-4 Roadway Section
4-16 Dirksen Drive Roadway Section (West of I-4)
4-17 Dirksen Drive Roadway Section (East of I-4)

Enterprise Road
4-18 Enterprise Road Project Controls
4-19 Enterprise Road Bridge Section
4-20 Enterprise Road Roadway Section
4-21 I-4 Under Enterprise Road

Saxon Boulevard
4-22 Saxon Blvd Project Controls (West of I-4)
4-23 Saxon Blvd Project Controls (East of I-4)
4-24 Saxon Blvd Bridge Section (Replace)
4-25 Saxon Blvd Roadway Section (West of I-4)
4-26 Saxon Blvd Roadway Section (East of I-4)
4-27 Saxon Blvd Roadway Section (East of Normandy Blvd)
4-28 I-4 Under Saxon Boulevard
## I-4 Beyond the Ultimate

Volusia County Typical Section Package Index
PD&E FPID: 432100-1 (Segment 4)
Design FPID: 408464-2

### Rhode Island Avenue

- 4-29 Rhode Island Avenue Project Controls
- 4-30 Rhode Island Bridge Section (New Bridge)
- 4-31 Rhode Island Roadway Section
- 4-32 I-4 Under Rhode Island Avenue

### Graves Avenue

- 4-33 I-4 Under Graves Avenue

### SR 472

- 4-34 SR 472 Project Controls (West of I-4)
- 4-35 SR 472 Project Controls (East of I-4)
- 4-36 Howland Boulevard Project Controls (East of I-4)
- 4-37 SR 472 Bridge Section (Replace)
- 4-38 SR 472 Roadway Section (West of I-4)
- 4-39 SR 472 Roadway Section (East of I-4)
- 4-40 Howland Boulevard Roadway Section (East of Graves Ave)
- 4-41 I-4 Under SR 472
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINANCIAL PROJECT ID 432100-1-22-01
(FEDERAL FUNDS)

VOLUSIA COUNTY (79110)

STATE ROAD NO. 400 (1-4)
1-4 BEYOND THE ULTIMATE
TYPICAL SECTION PACKAGE

BEGIN SEGMENT 4
@ EXIST. SR 400
STA. 2583+00.00
MP 0.086 (VOLUSIA CO.)

END SEGMENT 4
@ EXIST. SR 400
STA. 3118+46.00
MP 10.227 (VOLUSIA CO.)

PROJECT LOCATION

PROJECT LENGTH IS BASED ON Q. OF CONSTRUCTION

<table>
<thead>
<tr>
<th>LENGTH OF PROJECT</th>
<th>LINEAR FEET</th>
<th>MILES</th>
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<tr>
<td>ROADWAY</td>
<td>50925.53</td>
<td>9.645</td>
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<td>BRIDGES</td>
<td>2618.95</td>
<td>0.496</td>
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<td>NET LENGTH OF PROJECT</td>
<td>53544.48</td>
<td>10.141</td>
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<td>EXCEPTIONS</td>
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<tr>
<td>GROSS LENGTH OF PROJECT</td>
<td>53544.48</td>
<td>10.141</td>
</tr>
</tbody>
</table>

FDOT PROJECT MANAGER: BEATA STYS-PALASZ, PE

SHEET 4-1
# Project Identification

**Financial Project ID:** 432100-1-22-01  
**County (Section):** Volusia (79110)  
**Project Description:** Widening SR 400 (I-4) from West of CR 532 to West of SR 435 (Kirkman Rd.) and from 1 mile East of SR 434 to 1/2 mile East of SR 472.

## Project Controls (SR 400/I-4)

<table>
<thead>
<tr>
<th>Functional Classification</th>
<th>Highway System</th>
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<tbody>
<tr>
<td>( ) Rural</td>
<td>Yes No</td>
</tr>
<tr>
<td>(X) Freeway/Expy.</td>
<td>(X) National Highway System</td>
</tr>
<tr>
<td>( ) Major Coll.</td>
<td>(X) Florida Intrastate Highway System</td>
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<tr>
<td>(X) Principal Art.</td>
<td>(X) Strategic Intermodal System</td>
</tr>
<tr>
<td>( ) Minor Coll.</td>
<td>(X) State Highway System</td>
</tr>
<tr>
<td>( ) Local</td>
<td>(X) Off State Highway System</td>
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</tbody>
</table>

## Access Classification

<table>
<thead>
<tr>
<th>(X) 1 - Freeway</th>
</tr>
</thead>
<tbody>
<tr>
<td>( ) 2 - Restrictive w/Service Roads</td>
</tr>
<tr>
<td>( ) 3 - Restrictive w/660 ft. Connection Spacing</td>
</tr>
<tr>
<td>( ) 4 - Non-Restrictive w/2640 ft. Signal Spacing</td>
</tr>
<tr>
<td>( ) 5 - Restrictive w/440 ft. Connection Spacing</td>
</tr>
<tr>
<td>( ) 6 - Non-Restrictive w/1320 ft. Signal Spacing</td>
</tr>
<tr>
<td>( ) 7 - Both Median Types</td>
</tr>
</tbody>
</table>

## Traffic

- **Opening:** 2020  
- **AADT:** 135,000  
- **Interim:** 2030  
- **AADT:** 162,000  
- **Design:** 2040  
  
## Criteria

- (X) New Construction / Reconstruction  
- ( ) RR Inter-state / Freeway  
- ( ) RR Non-Interstate / Freeway  
- ( ) TDLC / New Construction / Reconstruction  
- ( ) TDLC / RR  
- ( ) Manual of Uniform Minimum Standards (Florida Greenbook) (Off-State Highway System Only)

## Design Speed Approvals

**District Design Engineer:** 3/17/17  
**District Traffic Operations Engineer:** 4/10/17

## List Any Potential Exceptions and Variations Related to Typical Section Elements:

- Border width (variation) - For the border widths less than 94-ft (94-ft required)  
- Shoulder width (variation) - For the 10-ft median gul shoulder (12-ft required)  
- Shoulder width (variation) - For the 4-ft median express lane shoulder (6-ft required)

## List Major Structures Location/Description - Requiring Independent Structure Design:

- St. Johns River  
  - 790196, 790197  
- DeBary Causeway  
  - Proposed  
- Padgett Creek  
  - 790941, 790099  
- Dirkson Drive  
  - 790042, 790100  
- Enterprise Rd.  
  - 790191  
- Saxon Blvd.  
  - 790167, 790166  
- Graves Ave.  
  - 790210  
- Rhode Island Ave.  
  - Proposed  
  - 790053, 790190  
- SR 472

## List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)  
- Water (Volusia County Utilities)  
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)  
- Wastewater (Volusia County Utilities)  
- Electric (Duke Energy Distribution, Duke Energy Transmission)

## List Other Information Pertinent to Design of Project:

N/A

---

Sheet 4-2
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO.: N/A  COUNTY NAME: VOLUSIA

SECTION NO.: 79110  ROAD DESIGNATION: SR 400 (I-4)  LIMITS/MILEPOST: MP 0.000 - 10.227
PROJECT DESCRIPTION: WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) WITH TRANSIT CORRIDOR & 2 EXPRESS LANES
STA 2578+48.33 TO 3118+46.00

SHEET 4-3

FDOT CONCURRENCE  FHWA CONCURRENCE

ROBERT M. DENNEY, P.E.
HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 409
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO: 6500

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

AL Brennan  3/17/17

FHWA Transportation Engineer

Date  7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) WITH TRANSIT CORRIDOR & 1 EXPRESS LANE
STA 2578+48.33 TO 3090+91.24

FDOT CONCURRENCE  FHWA CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

Date  Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION  SR 400 (1-4)  LIMITS/MILEPOST  MP 0.000 - 10.227

PROJECT DESCRIPTION  WIDENING SR 400 (1-4) FROM WEST OF CR 332 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) WITH TRANSIT CORRIDOR & NO EXPRESS LANES
STA 3090+91.24 TO 3118+46.00

APPROVED BY

ROBERT M. DENNEY, P.E.  Date
Engineer  CRB No. 58593

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.  Date
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer  Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) BRIDGE OVER ST. JOHNS RIVER

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 4-6
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE ON THE DEBARY CAUSEWAY

FDOT CONCURRENCE

FHWA CONCURRENCE

HNTB CORPORATION 610 CRESCENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 6500

Annette K. Brennan, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

Robert M. Denney, P.E.

Annette K. Brennan, P.E.

FHWA Transportation Engineer

A.K. Brennan 3/17/17

FHWA Transportation Engineer

Date

Date

Sheet 4-7
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) BRIDGE OVER PADGETT CREEK

* 7-FT WIDE SHOULDER USED IN LIEU OF 4-FT SHOULDER TO MEET STOPPING SIGHT DISTANCE.

SHEET 4-8

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

ROBERT M. DENNEY, P.E.
Engineer of Record No. 58593

STATE OF FLORIDA LEON COUNTY

HNTB CORPORATION
610 CRESCENT EXEC. CT.
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

ALBRENNAN 3/17/17

Date

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) BRIDGE OVER DIRKSEN DRIVE/DEBARY AVENUE

* 7-FT WIDE SHOULDER USED IN LIEU OF 4-FT SHOULDER TO MEET STOPPING SIGHT DISTANCE.

FDOT CONCURRENCE  FHWA CONCURRENCE

[Signatures and dates]

HNTB CORPORATION
610 CRESCENT EXEC. CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

[Signature]  3/17/17

FHWA TRANSPORTATION ENGINEER

[Signature]  7/25/17

ROBERT M. DENNETT, PE
[Signatures and dates]
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

<table>
<thead>
<tr>
<th>Ramp Description</th>
<th>Design Speed</th>
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<tbody>
<tr>
<td>SEGMENT 4</td>
<td></td>
</tr>
<tr>
<td>I-4 EB GUL RAMP TO DIRKSEN EB</td>
<td>40</td>
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<tr>
<td>I-4 EB GUL RAMP TO DIRKSEN WB</td>
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<tr>
<td>I-4 WB GUL RAMP TO DIRKSEN</td>
<td>30</td>
</tr>
<tr>
<td>DIRKSEN TO I-4 EB</td>
<td>30-40</td>
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<tr>
<td>DIRKSEN TO I-4 WB</td>
<td>30-65</td>
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<tr>
<td>I-4 EB GUL RAMP TO SAXON BLVD EB</td>
<td>40-50</td>
</tr>
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<td>I-4 EB GUL RAMP TO SAXON BLVD WB</td>
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<tr>
<td>SAXON BLVD RAMP TO I-4 WB GUL</td>
<td>20-30</td>
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<tr>
<td>SAXON BLVD RAMP TO I-4 WB GUL</td>
<td>30</td>
</tr>
<tr>
<td>I-4 WB GUL RAMP TO SAXON BLVD WB</td>
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<tr>
<td>SR 472 WB TO I-4 EB GUL RAMP</td>
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<tr>
<td>SR 472 EB TO I-4 WB GUL RAMP</td>
<td>40</td>
</tr>
</tbody>
</table>

Natural Ground

SR 400 (I-4)
ONE LANE RAMP

FHWA CONCURRENCE

FHWA Transportation Engineer

Date: 7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 - 10.227
PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

<table>
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<th>Design Speed</th>
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<td>RHODE ISLAND RAMP TO I-4 WB EL</td>
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SR 400 (I-4)
ONE LANE EXPRESS LANE RAMP

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 4-11

 APPROVED

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

A. L. Brennan 3/17/17
Annette K. Brennan, P.E.
FDOT District Design Engineer

J. E. L.
FHWA Transportation Engineer

7/25/17
Date

Date
PROPOSED ROADWAY TYPICAL SECTION

<table>
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<th>Ramp</th>
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<td>I-4 EB GUL RAMP TO SAXON EB</td>
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<td>SAXON TO I-4 EB GUL</td>
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<tr>
<td>I-4 EB GUL RAMP TO SR 472</td>
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<tr>
<td>I-4 WB GUL RAMP TO SR 472</td>
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<td>SR 472 EB RAMP TO I-4 EB GUL</td>
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<tr>
<td>SR 472 WB RAMP TO I-4 WB GUL</td>
<td>25-50</td>
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</tbody>
</table>

SR 400 (I-4)
TWO LANE RAMP
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

SR 400 (I-4) THREE LANE RAMP

HNTB CORPORATION
610 CRESCENT EXEC CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE
ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE
FHWA Transportation Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 COUNTY (SECTION) VOLUSIA (79110)
WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.)
AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (DIRKSEN DRIVE)

FUNCTIONAL CLASSIFICATION

( ) RURAL
(X) URBAN

FREeways/EXPWY.  ( ) MAJOR COLL.
PRINCIPAL ART.  ( ) MINOR COLL.
MINOR ART.  ( ) LOCAL

HIGHWAY SYSTEM

Yes  No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) (X) STATE HIGHWAY SYSTEM
(X) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR  AADT
OPENING  2020  21,000
INTERIM  2030  26,000
DESIGN  2040  30,000

DISTRIBUTION

DESIGN SPEED  40 MPH
POSTED SPEED  35 MPH
D  62.50
T 24  7.7%

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS
(FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

DIRKSEN DRIVE  (790042, 790100)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (VOLUSIA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (VOLUSIA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A

SHEET 4-14
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

Q CONST.

PROPOSED BRIDGE STRUCTURE

16-6" MIN. VERTICAL CLEARANCE

52'-0"

108'-0"

56'-0"

22 MIN.

CURB & GUTTER TYPE E

CURB & GUTTER TYPE E

CURB & GUTTER TYPE F

CURB & GUTTER TYPE F

RELOCATED TRAIL

DESIGN SPEED = 40 MPH

DIRKSEN DRIVE UNDER SR 400 (I-4) ROADWAY SECTION
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01  FEDERAL AID PROJECT NO.: N/A  COUNTY NAME: VOLUSIA

SECTION NO.: 79110  ROAD DESIGNATION: SR 400 (1-4)  LIMITS/MILEPOST: MP 0.000 - 10.227

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

R/W LINE

R/W VARIES (36' MIN.)

1/6 FOR FILLS TO 5
1/6 TO EDGE OF CLEAR ZONE & 1/4 FOR FILLS 6 TO 10
1/6 TO EDGE OF CLEAR ZONE & 1/3 FOR FILLS 10 TO 20
1/2 (WITH GUARDRAIL) FILLS OVER 20

EXISTING CURB & GUTTER TYPE E TO REMAIN

DESIGN SPEED = 40 MPH

DIRKSEN DRIVE ROADWAY SECTION (WEST OF I-4)

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 803-0335
CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

COUNTY CONCURRENCE

County Engineer
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (I-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
DIRKSEN DRIVE ROADWAY SECTION (EAST OF I-4)

HNTB CORPORATION 610 CRESCENT EXEC. CT SUITE 400 LAKE MARY, FL 32746 (407) 809-0355 CERT OF AUTH NO 6500

FDOT CONCURRENCE
AK BURNAM
FOOT District Design Engineer

FHWA CONCURRENCE
FHWA Transportation Engineer

COUNTY CONCURRENCE
A. County Engineer

Date 3/17/17
Date 7/17/17
Date 6/17/17
<table>
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<tr>
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<tr>
<th>PROJECT CONTROLS (ENTERPRISE ROAD)</th>
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<tbody>
<tr>
<td>( ) NATIONAL HIGHWAY SYSTEM</td>
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<tr>
<td>(X) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<th>ACCESS CLASSIFICATION</th>
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<td>( ) 1 - FREEWAY</td>
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<td>( ) 2 - RESTRICTIVE w/Service Roads</td>
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<td>( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing</td>
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<td>( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing</td>
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<td>(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing</td>
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<td>( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing</td>
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<td>( ) 7 - BOTH MEDIAN TYPES</td>
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<td>( ) TDLC / RRR</td>
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<tr>
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<tr>
<th>DESIGN SPEED APPROVALS</th>
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<tr>
<td>DISTRICT DESIGN ENGINEER</td>
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<tr>
<td>3/17/17</td>
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<tr>
<td>DISTRICT TRAFFIC OPERATIONS ENGINEER</td>
</tr>
<tr>
<td>4/10/17</td>
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LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS: N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN: ENTERPRISE ROAD (790191)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR: GAS (CENTRAL FLORIDA GAS) WATER (VOLUSIA COUNTY UTILITIES) COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON) WASTEWATER (VOLUSIA COUNTY UTILITIES) ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT: N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 10.227
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

CONCRETE BARRIER (TYP.)

CONCRETE TRAFFIC SEPARATOR

CONCRETE PARAPET (TYP.)

DESIGN SPEED = 40 MPH
ENTERPRISE RD. BRIDGE SECTION

FHWA CONCURRENCE

DATE: 7/25/17

DATE: 6/1/12

FHWA Transportation Engineer

Design Engineer

COUNTY CONCURRENCE

DATE: 6/1/17

County Engineer

ROBERT M. DENNEY, P.E.

STATE OF FLORIDA

LICENSE No. 56503

SEAL OF THE STATE ENGINEER

PNTB CORPORATION

510 CRESCENT EXEC. CT.

SUITE 400

LAKE MARY, FL 32746

(407) 905-0355

CERT OF AUTH NO 6500

MARIO BIZZIO, P.E.

FOOT District

Design Engineer

JULIO R. SANCHEZ

COUNTY DISTRICT ENGINEER

Date

7/25/17

Date

FHWA Transportation Engineer

County Engineer

6/1/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER ENTERPRISE RD.

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE TRANSIT CORRIDOR. FUTURE TRANSIT CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

SHEET 4-21

APPROVED BY

FHWA CONCURRENCE

FHWA Transportation Engineer 7/25/17

FDOT CONCURRENCE

Date

ANNETTE K. BRENNA, P.E.
FDOT District Design Engineer

Date
### PROJECT IDENTIFICATION

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<th>FINANCIAL PROJECT ID</th>
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<td>VOLUSIA (79110)</td>
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WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.)
AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

### PROJECT CONTROLS (SAXON BOULEVARD WEST OF SR 400)

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<th>FUNCTIONAL CLASSIFICATION</th>
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<td>(X) MINOR ART.</td>
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### ACCESS CLASSIFICATION

<table>
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<tbody>
<tr>
<td>2 - RESTRICTIVE w/Service Roads</td>
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<td>3 - RESTRICTIVE w/660 ft. Connection Spacing</td>
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<td>4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing</td>
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<tr>
<td>(X) 5 - RESTRICTIVE w/440 ft. Connection Spacing</td>
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<td>7 - BOTH MEDIAN TYPES</td>
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### TRAFFIC

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DISTRIBUTION

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### CRITERIA

- NEW CONSTRUCTION / RECONSTRUCTION
- RRR INTERSTATE / FREEWAY
- RRR NON-INTERSTATE / FREEWAY
- TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- TDLC / RRR
- MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

### DESIGN SPEED APPROVALS

**DISTRICT DESIGN ENGINEER**

[Signature]

**DATE**

3/17/17

**DISTRICT TRAFFIC OPERATIONS ENGINEER**

[Signature]

**DATE**

4/10/17

### LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

### LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

SAXON BOULEVARD (790167, 790166)

### LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)
- WATER (VOLUSIA COUNTY UTILITIES)
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)
- WASTEWATER (VOLUSIA COUNTY UTILITIES)
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

### LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
# Project Identification

**Financial Project ID:** 432100-1-22-01  
**County (Section):** Volusia (79110)  
**Project Description:** Widening SR 400 (I-4) from west of CR 532 to west of SR 435 (Kirkman Rd.) and from 1 mile east of SR 434 to 1/2 mile east of SR 472.

## Project Controls (Saxon Boulevard East of SR 400)

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## Highway System

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<td>3.</td>
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<td>4.</td>
<td>Non-Restricted w/2640 ft. Signal Spacing</td>
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## Traffic

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## Criteria

- New Construction / Reconstruction
- RRR Interstate / Freeway
- RRR Non-Interstate / Freeway
- TDLC / New Construction / Reconstruction
- TDLC / RRR
- Manual of Uniform Minimum Standards (Florida Greenbook) (Off-State Highway System Only)

## Design Speed Approvals

- District Design Engineer: [Signature]  3/17/17
- District Traffic Operations Engineer: [Signature]  4/17/17

## List Any Potential Exceptions and Variations Related to Typical Section Elements:

N/A

## List Major Structures Location/Description - Requiring Independent Structure Design:

- Saxon Boulevard (790167, 790166)

## List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)
- Water (Volusia County Utilities)
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)
- Wastewater (Volusia County Utilities)
- Electric (Duke Energy Distribution, Duke Energy Transmission)

## List Other Information Pertinent to Design of Project:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 45 MPH
SAXON BOULEVARD BRIDGE SECTION

CONCRETE TRAFFIC SEPARATOR
CONCRETE BARRIER (TYP.)

SHEAR (TYP.)

R/W Varies (82' MIN.)

R/W Varies (82' MIN.)

Q CONST.

R/W LINE

R/W LINE

SHEET 4-24

STATE OF

APPROVED BY

Robert M. Denney, P.E.

County Engineer

Financial Project ID: 432100-1-22-01

FEDOT CONCURRENCE

FHWA CONCURRENCE

COUNTY CONCURRENCE

Mario Bizzio, P.E.

FHWA Transportation Engineer

Date

Date

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (I-4) LIMITS/MILEPOST MP 0.000 – 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
SAXON BOULEVARD ROADWAY SECTION (EAST OF SR 400)

DATE: [Signature] 1/1/17

MARIO BIZZI, P.E.
FHWA Transportation Engineer

COUNTY CONCURRENCE

[Signature] 1/1/17

HNTB CORPORATION
510 CRESCENT EXEC. CT.
SUITE 400
LAKE HARRIS, FL 32746
(407) 303-0355
CERT OF AUTH NO. 6250

ROBERT M. DENNEY, P.E.
FHWA Transportation Engineer

COUNTRY CONCURRENCE

[Signature] 1/1/17

 sheets: 4-26

amoured 2:40:34 PM

\\KRM\9Session\Jobs59219 - 14 SAMR-TECHPROD-Typical Section Package\YPDX001-SEC-4.DGN
PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
SAXON BOULEVARD ROADWAY SECTION (EAST OF NORMANDY BOULEVARD)

STATE OF FLORIDA

FHWA CONCURRENCE
FHWA Transportation Engineer
Date
12/17

COUNTY CONCURRENCE
County Engineer
Date
6/1/12

MARIO BIZZIO, P.E.
FDOT District Design Engineer
Date
6/1/12

HNTB CORPORATION
610 CRESCENT EXEC. CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA
SECTION NO. 79110 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 10.227
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PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER SAXON BOULEVARD

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE TRANSIT CORRIDOR. FUTURE TRANSIT CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAX PIER WIDTH ALLOWED.

HNTB CORPORATION 610 CRESCENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 6500

FDOT CONCURRENCE   FHWA CONCURRENCE

ANNETTE K. BRENNAN, P.E.  FHWA Transportation Engineer
FDOT District Design Engineer

AK Brennan 3/17/17
Date

FHWA Date

Sheet 4-28
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  COUNTY (SECTION)  VOLUSIA (79110)
WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.)
AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROJECT CONTROLS (RHODE ISLAND AVENUE)

FUNCTIONAL CLASSIFICATION

( ) RURAL ( ) MAJOR COLL.
(X) URBAN ( ) MINOR COLL.
( ) FREEWAY/EXPWY. ( ) LOCAL
( ) PRINCIPAL ART. ( ) MINOR ART.

HIGHWAY SYSTEM

Yes No
( ) (X) NATIONAL HIGHWAY SYSTEM
( ) (X) FLORIDA INTRASTATE HIGHWAY SYSTEM
( ) (X) STRATEGIC INTERMODAL SYSTEM
( ) ( ) STATE HIGHWAY SYSTEM
( ) ( ) OFF STATE HIGHWAY SYSTEM

ACCESS CLASSIFICATION

( ) 1 - FREEWAY
( ) 2 - RESTRICTIVE w/Service Roads
( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing
(X) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing
( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing
( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing
( ) 7 - BOTH MEDIAN TYPES

TRAFFIC

YEAR  AADT
OPENING  2020  18,000
INTERIM  2030  20,000
DESIGN  2040  22,000

CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
( ) RRR INTERSTATE / FREEWAY
( ) RRR NON-INTERSTATE / FREEWAY
( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION
( ) TDLC / RRR
( ) MANUAL OF UNIFORM MINIMUM STANDARDS
   (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

DISTRIBUTION

DESIGN SPEED  40 MPH
POSTED SPEED  40 MPH

DISTRIBUTION

K  9.0
D  62.50
T  6.4%

DESIGN SPEED APPROVALS

A K Brennan  3/17/17
DISTRICT DESIGN ENGINEER  DATE

DISTRICT TRAFFIC OPERATIONS ENGINEER  DATE

LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

RHODE ISLAND AVENUE  (PROPOSED)

LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

GAS (CENTRAL FLORIDA GAS)
WATER (VOLUSIA COUNTY UTILITIES)
COMMUNICATIONS (BRIGHTMINE NETWORKS, COMCAST, LEVEL 3, VERIZON)
WASTEWATER (VOLUSIA COUNTY UTILITIES)
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME  VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 10.227

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

DESIGN SPEED = 40 MPH
RHODE ISLAND AVENUE BRIDGE SECTION

MTB CORPORATION
510 CRESCENT EXEC. CT
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

FHWA CONCURRENCE

COUNTY CONCURRENCE

6/1/17

FHWA Transportation Engineer

County Engineer

amador  3:01:54 PM  \SYSTEM\prod\comp\13-Jobs\59219 - 14 SANK\TECHPROD\Typical Section Package\TYP03D-SEG-4-05X
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID: 432100-1-22-01   FEDERAL AID PROJECT NO. N/A   COUNTY NAME: VOLUSIA

SECTION NO. 79110   ROAD DESIGNATION: SR 400 (1-4)   LIMITS/MILEPOST: MP 0.000 - 10.227

PROJECT DESCRIPTION: WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 40 MPH
RHODE ISLAND AVENUE ROADWAY SECTION

FHWA CONCURRENCE: [Signature] Date: 7/28/17
COUNTY CONCURRENCE: [Signature] Date: 6/1/17

ROBERT M. DENNEY, P.E.
Engineer

FHWA TRANSPORTATION ENGINEER

MARIO BIZZIO, P.E.
FOOT DISTRICT DESIGN ENGINEER

P: 805-9355

FHWA CORPORATION
120 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
CERT OF AUTH NO 6500

DATE: 6/1/12
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01 FEDERAL AID PROJECT NO. N/A COUNTY NAME VOLUSIA

SECTION NO. 79110 ROAD DESIGNATION SR 400 (1-4) LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (1-4) UNDER RHODE ISLAND AVENUE

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE TRANSIT CORRIDOR. FUTURE TRANSIT CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

FHWA CONCURRENCE

FHWA Transportation Engineer  7/25/17
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID  432100-1-22-01  FEDERAL AID PROJECT NO.  N/A  COUNTY NAME  VOLUSIA

SECTION NO.  79110  ROAD DESIGNATION  SR 400 (I-4)  LIMITS/MILEPOST  MP 0.000 - 10.227

PROJECT DESCRIPTION  WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH
SR 400 (I-4) UNDER GRAVES AVENUE

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44" REQUIRED FOR FUTURE TRANSIT CORRIDOR. FUTURE TRANSIT CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.

ROBERT M. DENNEY
LICENSE No. 58593
APPROVED BY
3/14/17

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

FDOT CONCURRENCE

AK Brennan  3/17/17

FHWA CONCURRENCE

Date

FHWA Transportation Engineer

Date
**PROJECT IDENTIFICATION**

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** VOLUSIA (79110)  
**PROJECT DESCRIPTION** WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

**PROJECT CONTROLS (SR 472 WEST OF SR 400)**

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<tr>
<th>FUNCTIONAL CLASSIFICATION</th>
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<tr>
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<td>( ) FLORIDA INTRASTATE HIGHWAY SYSTEM</td>
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<td>(X) PRINCIPAL ART.</td>
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<td>( ) MINOR ART.</td>
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<td>( ) LOCAL</td>
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**ACCESS CLASSIFICATION**

| ( ) 1 - FREEWAY |
| ( ) 2 - RESTRICTIVE w/Service Roads |
| (X) 3 - RESTRICTIVE w/660 ft. Connection Spacing |
| ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing |
| ( ) 5 - RESTRICTIVE w/440 ft. Connection Spacing |
| ( ) 6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing |
| ( ) 7 - BOTH MEDIAN TYPES |

**TRAFFIC**

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**CRITERIA**

| (X) NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) RRR INTERSTATE / FREEWAY |
| ( ) RRR NON-INTERSTATE / FREEWAY |
| ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION |
| ( ) TDLC / RRR |
| ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY) |

**LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:**

N/A

**LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:**

SR 472  
(790053, 790190)

**LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:**

GAS (CENTRAL FLORIDA GAS)  
WATER (VOLUSIA COUNTY UTILITIES)  
COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
WASTEWATER (VOLUSIA COUNTY UTILITIES)  
ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

**LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:**

N/A
### Project Identification

**Financial Project ID:** 432100-1-22-01  
**County (Section):** Volusia (79110)  
**Project Description:** Widening SR 400 (I-4) from west of CR 532 to west of SR 435 (Kirkman Rd.) and from 1 mile east of SR 434 to 1/2 mile east of SR 472.

### Project Controls (SR 472 East of SR 400)

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<td>PRINCIPAL ART.</td>
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<td>MINOR COLL.</td>
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<tr>
<td>5 - RESTRICTIVE w/440 ft. Connection Spacing</td>
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<tr>
<td>6 - NON-RESTRICTIVE w/1320 ft. Signal Spacing</td>
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<td>7 - BOTH MEDIAN TYPES</td>
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<table>
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<tr>
<th>Traffic</th>
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<td>DESIGN</td>
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<th>Distribution</th>
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<td>DESIGN SPEED</td>
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### Criteria

- NEW CONSTRUCTION / RECONSTRUCTION
- RRR INTERSTATE / FREEWAY
- RRR NON-INTERSTATE / FREEWAY
- TDLC / NEW CONSTRUCTION / RECONSTRUCTION
- TDLC / RRR
- MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

### Design Speed Approvals

- District Design Engineer: [Signature]  
  Date: 3/17/17

- District Traffic Operations Engineer: [Signature]  
  Date: 4/10/17

### List Any Potential Exceptions and Variations Related to Typical Section Elements:

N/A

### List Major Structures Location/Description - Requiring Independent Structure Design:

- SR 472 (790053, 790190)

### List Major Utilities Within Project Corridor:

- Gas (Central Florida Gas)
- Water (Volusia County Utilities)
- Communications (BrightHouse Networks, Comcast, Level 3, Verizon)
- Wastewater (Volusia County Utilities)
- Electric (Duke Energy Distribution, Duke Energy Transmission)

### List Other Information Pertinent to Design of Project:

N/A

---

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\W:\Jobs\SRPM\Projects\29219 - 14 \SAHR\TECHPDL\Typical Section Package\Typical Section Package 03.xlsx
### PROJECT IDENTIFICATION

**FINANCIAL PROJECT ID** 432100-1-22-01  
**COUNTY (SECTION)** VOLUSIA (79110)  
**PROJECT DESCRIPTION** WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 (KIRKMAN RD.) AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

### PROJECT CONTROLS (HOWLAND BOULEVARD)

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<td>( ) MINOR COLL.</td>
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### HIGHWAY SYSTEM

- (X) NATIONAL HIGHWAY SYSTEM  
- (X) FLORIDA INTRASTATE HIGHWAY SYSTEM  
- (X) STRATEGIC INTERMODAL SYSTEM  
- (X) STATE HIGHWAY SYSTEM  
- (X) OFF STATE HIGHWAY SYSTEM

### ACCESS CLASSIFICATION

- ( ) 1 - FREEWAY  
- ( ) 2 - RESTRICTIVE w/Service Roads  
- ( ) 3 - RESTRICTIVE w/660 ft. Connection Spacing  
- ( ) 4 - NON-RESTRICTIVE w/2640 ft. Signal Spacing  
- (X) 5 - RESTRICTIVE w/440 ft. Connection Spacing  
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### TRAFFIC

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<td>T24 6.4%</td>
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### CRITERIA

- (X) NEW CONSTRUCTION / RECONSTRUCTION  
- ( ) RRR INTERSTATE / FREEWAY  
- ( ) RRR NON-INTERSTATE / FREEWAY  
- ( ) TDLC / NEW CONSTRUCTION / RECONSTRUCTION  
- ( ) TDLC / RRR  
- ( ) MANUAL OF UNIFORM MINIMUM STANDARDS (FLORIDA GREENBOOK) (OFF-STATE HIGHWAY SYSTEM ONLY)

### DESIGN SPEED APPROVALS

- **DISTRICT DESIGN ENGINEER** 3/17/17  
- **DISTRICT TRAFFIC OPERATIONS ENGINEER** 4/1/17

### LIST ANY POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION ELEMENTS:

N/A

### LIST MAJOR STRUCTURES LOCATION/DESCRIPTION - REQUIRING INDEPENDENT STRUCTURE DESIGN:

- **SR 472**  
  790053, 790190

### LIST MAJOR UTILITIES WITHIN PROJECT CORRIDOR:

- GAS (CENTRAL FLORIDA GAS)  
- WATER (VOLUSIA COUNTY UTILITIES)  
- COMMUNICATIONS (BRIGHTHOUSE NETWORKS, COMCAST, LEVEL 3, VERIZON)  
- WASTEWATER (VOLUSIA COUNTY UTILITIES)  
- ELECTRIC (DUKE ENERGY DISTRIBUTION, DUKE ENERGY TRANSMISSION)

### LIST OTHER INFORMATION PERTINENT TO DESIGN OF PROJECT:

N/A
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED STRUCTURE TYPICAL SECTION

SR 472 BRIDGE SECTION
DIVERGING DIAMOND INTERCHANGE

FDOT CONCURRENCE

ANNETTE K. BRENNA, P.E.
FDOT District Design Engineer

Date

FHWA CONCURRENCE

FHWA Transportation Engineer

Date

No. 58593

APPROVED BY

ROBERT M. DENNEY

HNTB CORPORATION
610 CRESCEINT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355
CERT OF AUTH NO 6500

7/25/17

7:02:13 PM
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME VOLUSIA

SECTION NO. 79110
ROAD DESIGNATION SR 400 (I-4)
LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (I-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND
FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 55 MPH
SR 472 ROADWAY SECTION (WEST OF SR 400)

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

Date

FHWA Transportation Engineer

Date
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 10.227
PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
SR 472 ROADWAY SECTION (EAST OF SR 400)

HNTB CORPORATION
610 CRESCENT EXEC. CT.
SUITE 400
LAKE MARY, FL 32746
(407) 805-0355

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

Date

SHEET 4-39

ROBERT M. DENNEY LICENCE No. 58536
State of Florida

Engineer of Record 93597

2/40/18 PM ~\lkh\w00\onwork\J\Jobs\59219 - 14 SamuraiTechProd\Typical Section Package\TPORD01-SSG-ADD
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01  FEDERAL AID PROJECT NO. N/A  COUNTY NAME VOLUSIA

SECTION NO. 79110  ROAD DESIGNATION SR 400 (1-4)  LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH

HOWLAND BOULEVARD ROADWAY SECTION (EAST OF GRAVES AVENUE)

SHEET 4-40
PROJECT IDENTIFICATION

FINANCIAL PROJECT ID 432100-1-22-01
FEDERAL AID PROJECT NO. N/A
COUNTY NAME VOLUSIA

SECTION NO. 79110
ROAD DESIGNATION SR 400 (1-4)
LIMITS/MILEPOST MP 0.000 - 10.227

PROJECT DESCRIPTION WIDENING SR 400 (1-4) FROM WEST OF CR 532 TO WEST OF SR 435 KIRKMAN ROAD AND FROM 1 MILE EAST OF SR 434 TO 1/2 MILE EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 70 MPH SR 400 (1-4) UNDER SR 472 EB & WB

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER.
** 44' REQUIRED FOR FUTURE TRANSIT CORRIDOR. FUTURE TRANSIT CORRIDOR IS MEASURED FROM FACE OF FUTURE INSIDE BARRIER TO FACE OF FUTURE INSIDE BARRIER.
*** 3'-6" MAXIMUM PIER WIDTH ALLOWED.

HNTB CORPORATION 610 CRESCENT EXEC. CT. SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT OF AUTH NO 6500

FDOT CONCURRENCE

ANNETTE K. BRENNAN, P.E.
FDOT District Design Engineer

FHWA CONCURRENCE

FHWA Transportation Engineer

SHEET 4-41

ROBERT M. DENNEY, P.E.
State of Florida Board of Professional Engineers

R. DEVLIN, P.E.
FHWA Transportation Engineer

3/17/17

7/25/17