**Background/Purpose:** In February of 2017, a PD&E Typical Section Package was submitted to the Department for I-4 Beyond the Ultimate. The purpose of this memo is to identify revisions made to the I-4 Beyond the Ultimate Typical Section Package within the Orange County project area. Revisions and proposed typicals are listed as follows.

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Revisions/Updates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1B-3 R1</td>
<td>Updated the station limits using PD&amp;E Stationing, to omit the portion of I-4 that is covered by the new typical section Sheet 1B-3A R1 and Sheet 1B-5A R1.</td>
</tr>
<tr>
<td>1B-3A R1</td>
<td>A new section was developed to show the omitted station range from Sheet 1B-3 R1. It shows EB GUL on fill and 2-lane CD’s on both EB and WB through the SR 536 interchange.</td>
</tr>
<tr>
<td>1B-5 R1</td>
<td>The section was revised to separate the DCP ramp and the EB GUL onto their own hammerhead piers.</td>
</tr>
<tr>
<td>1B-5A R1</td>
<td>A new section was developed (similar to Sheet 1B-3A R1) to show the WBCD, WB GUL on fill, and EB off ramp B CFP.</td>
</tr>
<tr>
<td>1B-6 R1</td>
<td>The section was revised to show the EB GUL and the EB XL on a single structure.</td>
</tr>
<tr>
<td>1B-8 R1</td>
<td>The ramps, design speeds and movement descriptions in the typical section were updated based on the Line &amp; Grade typical sections.</td>
</tr>
<tr>
<td>1B-9 R1</td>
<td>The ramps, design speeds and movement descriptions in the typical section were updated based on the Line &amp; Grade typical sections.</td>
</tr>
<tr>
<td>1B-10 R1</td>
<td>The ramps, design speeds and movement descriptions in the typical section were updated based on the Line &amp; Grade typical sections.</td>
</tr>
<tr>
<td>1B-11 R1</td>
<td>The ramps, design speeds and movement descriptions in the typical section were updated based on the Line &amp; Grade typical sections.</td>
</tr>
<tr>
<td>1B-12 R1</td>
<td>The ramps, design speeds and movement descriptions in the typical section were updated based on the Line &amp; Grade typical sections.</td>
</tr>
<tr>
<td>1B-17 R1</td>
<td>The inside CD shoulders (EB and WB) were reduced to an 8-foot width. The outside CD lanes (EB and WB) were labeled as “AUX”.</td>
</tr>
<tr>
<td>1B-24 R1</td>
<td>The section was revised to a single span bridge, the median width was reduced to 30-feet, and the bike lane was removed in the SB direction and replaced with a 10-foot Multi-Use Trail.</td>
</tr>
<tr>
<td>1B-25 R1</td>
<td>The bike lane in the SB direction was removed and replaced with a 10-foot Multi-Use Trail. The inside barrier wall was removed on SB lefts and replaced with curb &amp; gutter.</td>
</tr>
<tr>
<td>1B-26 R1</td>
<td>The NB and SB sidewalks were revised to 10-foot Multi-Use Trails. The SB turn lane was revised to a 3.5% slope.</td>
</tr>
<tr>
<td>Table Row</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
</tr>
<tr>
<td>1B-28 R1</td>
<td>An additional 11-foot lane was added to the inside. The outside lane was labeled as &quot;AUX&quot;.</td>
</tr>
<tr>
<td>1B-29 R1</td>
<td>The right sidewalk was adjusted to a 10-foot Multi-Use Trail. The left sidewalk was removed. Both sides have a 16-foot minimum from the curb &amp; gutter.</td>
</tr>
<tr>
<td>1B-30 R1</td>
<td>The right sidewalk was adjusted to a 10-foot Multi-Use Trail, with 4 feet between the curb &amp; gutter and the trail. The left sidewalk was removed.</td>
</tr>
<tr>
<td>1B-31 R1</td>
<td>The outside shoulder on the elevated turn lanes was adjusted to a 6-foot width.</td>
</tr>
<tr>
<td>1B-44 R1</td>
<td>The section was revised to match the Interim DCP typical. This includes 12-foot lanes, 4-foot inside bike lanes, 5-foot inside shoulders, and ±10.3-foot outside shoulders.</td>
</tr>
</tbody>
</table>
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 1095+00.00
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 1095+00.00 TO STA 1121+50.00
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) WITH RAUX, EQR, BDR
STA 1288+00.00 TO STA 1345+48.48

FDOH CONCURRENCE

FIWHA CONCURRENCE

MARIO BIZZIO, P.E.
FDOH District Design Engineer

Date

FIWHA Transportation Engineer

Date

STATE OF

VACLILOS G. LIATSOS
LICENSE
NO. 67440
APPROVED BY

VACLILOS G. LIATSOS
ENGINEER
NO. 67440
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>MOVEMENT</th>
<th>DESIGN SPEED (MPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1 OP</td>
<td>WB 14 GULTO WB OP</td>
<td>50</td>
</tr>
<tr>
<td>A2 536</td>
<td>EB 536 TO C1 536</td>
<td>50</td>
</tr>
</tbody>
</table>

SR 400 (I-4) THREE LANE RAMP

[Diagram of a three lane ramp with dimensions and details]

SHEET 1B-10 RI

APPROVED BY

[Signatures and details]

AECOM
150 N. ORANGE AVE.
SUITE 200
ORLANDO, FL 32801
(407) 422-6353
CERT OF AUTH NO 9115

FDOT CONCURRENCE

[Signature]

MARIO BIZZIO, R.E.
FDOT District Design Engineer

FHWA CONCURRENCE

[Signature]

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-LANE EAST OF SR 434 TO 1/8-MILE EAST OF SR 432.

<table>
<thead>
<tr>
<th>RAMP</th>
<th>MOVEMENT</th>
<th>DESIGN SPEED (MPH)</th>
<th>RAMP</th>
<th>MOVEMENT</th>
<th>DESIGN SPEED (MPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4 536</td>
<td>EB 14, XL TO EB,CD 536</td>
<td>50</td>
<td>D1 535</td>
<td>WB CD TO SB 535</td>
<td>60-35</td>
</tr>
<tr>
<td>A6 536</td>
<td>A1 536 TO WB 14, XL</td>
<td>50</td>
<td>A DCP</td>
<td>DCP TO WB 14 GUL</td>
<td>50</td>
</tr>
<tr>
<td>A1 536</td>
<td>EB 536 TO WB 14 GUL</td>
<td>50</td>
<td>C CFP</td>
<td>WB CFP TO WB 14 GUL</td>
<td>45-50</td>
</tr>
<tr>
<td>A2 536</td>
<td>EB 536 TO C1 536</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2 536</td>
<td>A2 536 TO C7 536</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B3 536</td>
<td>A2 536 TO C7 536</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D4 536</td>
<td>WB,CD 1 TO E1 536</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D5 536</td>
<td>WB,CD 1 TO WB 14 GUL</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (1-4)
ONE LANE BRIDGE 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 CR 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>MOVEMENT</th>
<th>DESIGN SPEED (MPH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1 536</td>
<td>EB 536 TO WB 14 GUL</td>
<td>50</td>
</tr>
<tr>
<td>A2 536</td>
<td>EB 536 TO C1 536</td>
<td>50</td>
</tr>
<tr>
<td>C3 536</td>
<td>WB 536 TO B3 536</td>
<td>50</td>
</tr>
<tr>
<td>B2 536</td>
<td>A2 536 TO C2 536</td>
<td>50</td>
</tr>
<tr>
<td>B3 536</td>
<td>A2 536 TO C2 536</td>
<td>50</td>
</tr>
<tr>
<td>C DCP</td>
<td>DCP TO EB 14 GUL</td>
<td>50</td>
</tr>
</tbody>
</table>

PROPOSED STRUCTURE TYPICAL SECTION

SR 400 (I-4) TWO LANE BRIDGE RAMP

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 (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

23'-6" MIN. VERTICAL CLEARANCE

PROPOSED BRIDGE STRUCTURE

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

* VERTICAL CLEARANCE MEASURED FROM EXPRESS LANE INSIDE EDGE OF TRAVEL TO LOW MEMBER
** 4'-0" 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

CONCRETE BARRIER (TYP.)

SINGLE FACED GUARDRAIL (TYP.)

*** 3'-5" MAX PIER WIDTH

FHWA CONCURRENCE

FHWA Transportation Engineer Date 12/14/15
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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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

STATE OF FLORIDA

CONCERNED AGENCIES:

FHWA CONCURRENCE

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

12/14/18

12/5/18
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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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

APPROVED BY:

STATE OF FLORIDA

VACILIOS G. LIATSOS
LICENSE NO. 67440

ALLEN H. KIJADA, PE
CIVIL ENGINEER

APRIL 18, 2018

ORANGE COUNTY CONCURRENCE: MARK HARRISON, P.E.
PUBLIC WORKS DIRECTOR

FDOT CONCURRENCE: MARIO RIZZIO, P.E.
District Design Engineer

FHWA CONCURRENCE: DAVE L. BURGESS
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 (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 SR 535 SB BRIDGE SECTION OVER VINELAND AVENUE

STATE OF FL

SECON

330 N. ORANGE AVE.
SUITE 200
ORLANDO, FL 32801
(407) 422-3353
CERT OF AUTH NO 8115

ENGINEER

VACLIO G. LIATSOS

FDOT CONCURRENCE

FHWA CONCURRENCE

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA Transportation Engineer

12/5/17 12-14-18
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 - 9.520

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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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

SHEET 18-29 RI

STATE OF FLORIDA
VACIUS G. LIATOS
NO. 67440
LICENSE

DECOM
150 N. ORANGE AVE.
SUITE 200
ORLANDO, FL 32801
(407) 422-0353
CERT OF AUTH NO 6115

MARIO BIZZIO, P.E.
FDOT District Design Engineer

FHWA Concurrence

FHWA Transportation Engineer

12/5/18

12/14/18
PROPOSED ROADWAY TYPICAL SECTION

DESIGN SPEED = 45 MPH
SR 400 (1-4) EB OFF RAMP UNDER SR 535 SB

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 EAST OF SR 472.
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 EAST OF SR 472.

PROPOSED ROADWAY TYPICAL SECTION

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

[Diagram of proposed roadway typical section]

FDOT CONCURRENCE 12/5/18

FHWA CONCURRENCE 12/4/18

MARIO BIZZIO, P.E.
FDOT District Design Engineer

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 EAST OF SR 472.

EXISTING STRUCTURE TYPICAL SECTION

DESIGN SPEED = 40 MPH
DARYL CARTER PARKWAY
DIVERGING DIAMOND INTERCHANGE

EXISTING RAISED CONCRETE SIDEWALK AND BRIDGE RAILING TO BE REMOVED AND A NEW BRIDGE RAILING TO BE CONSTRUCTED.

PROPOSED CONC BARRIER
EXIST TRAFFIC SEPARATOR TO BE REMOVED
BRIDGE DECKS TO BE CONNECTED IN ORDER TO ACCOMODATE PROPOSED S/W

EXISTING RAISED CONCRETE SIDEWALK AND BRIDGE RAILING TO BE REMOVED AND A NEW BRIDGE RAILING TO BE CONSTRUCTED.

PROPOSED CONC BARRIER
EXIST BIDGE

SHEET 1B-44 RI