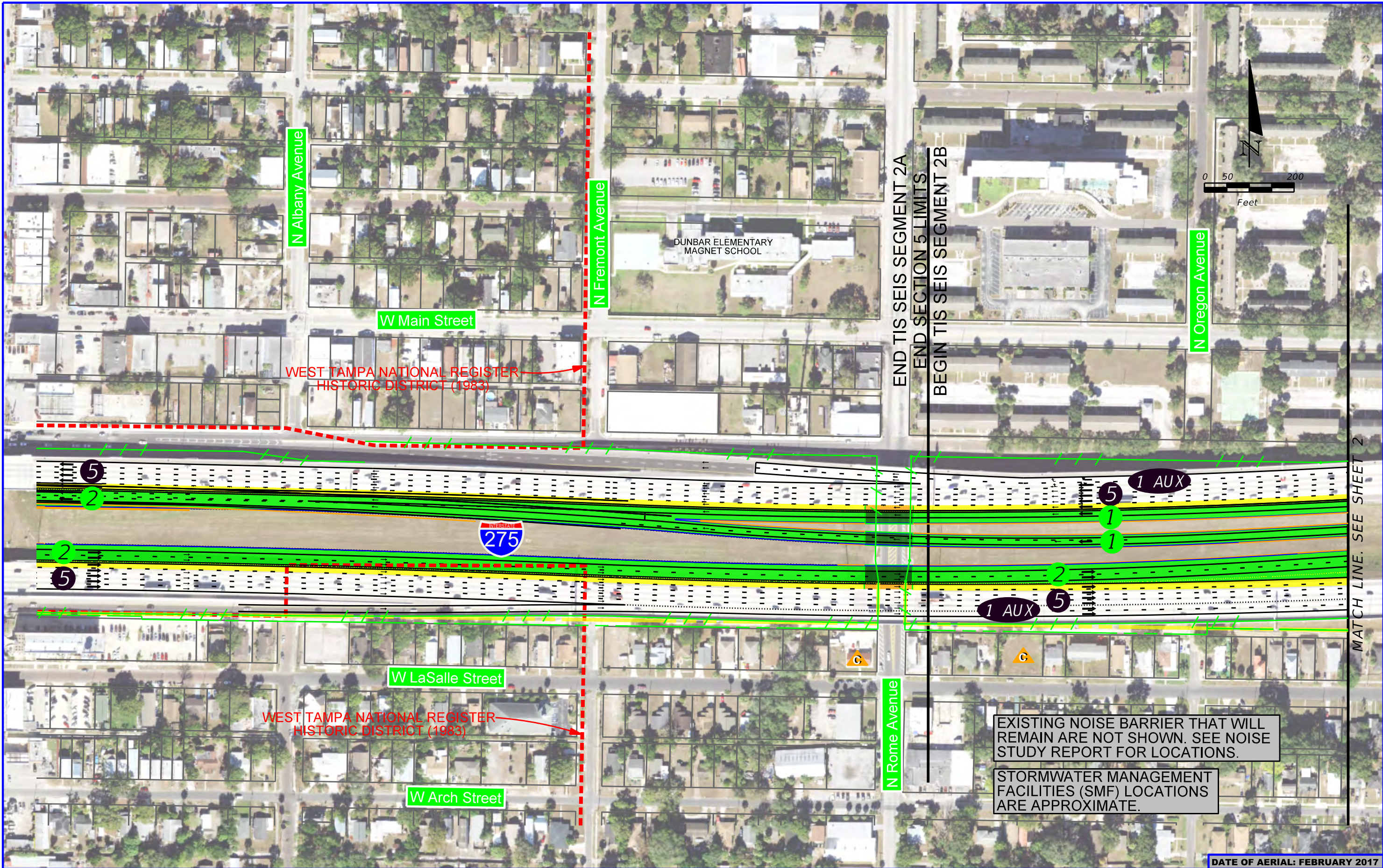


**APPENDIX A**

**Concept Plans and  
Typical Sections  
for the  
Preferred Alternative**





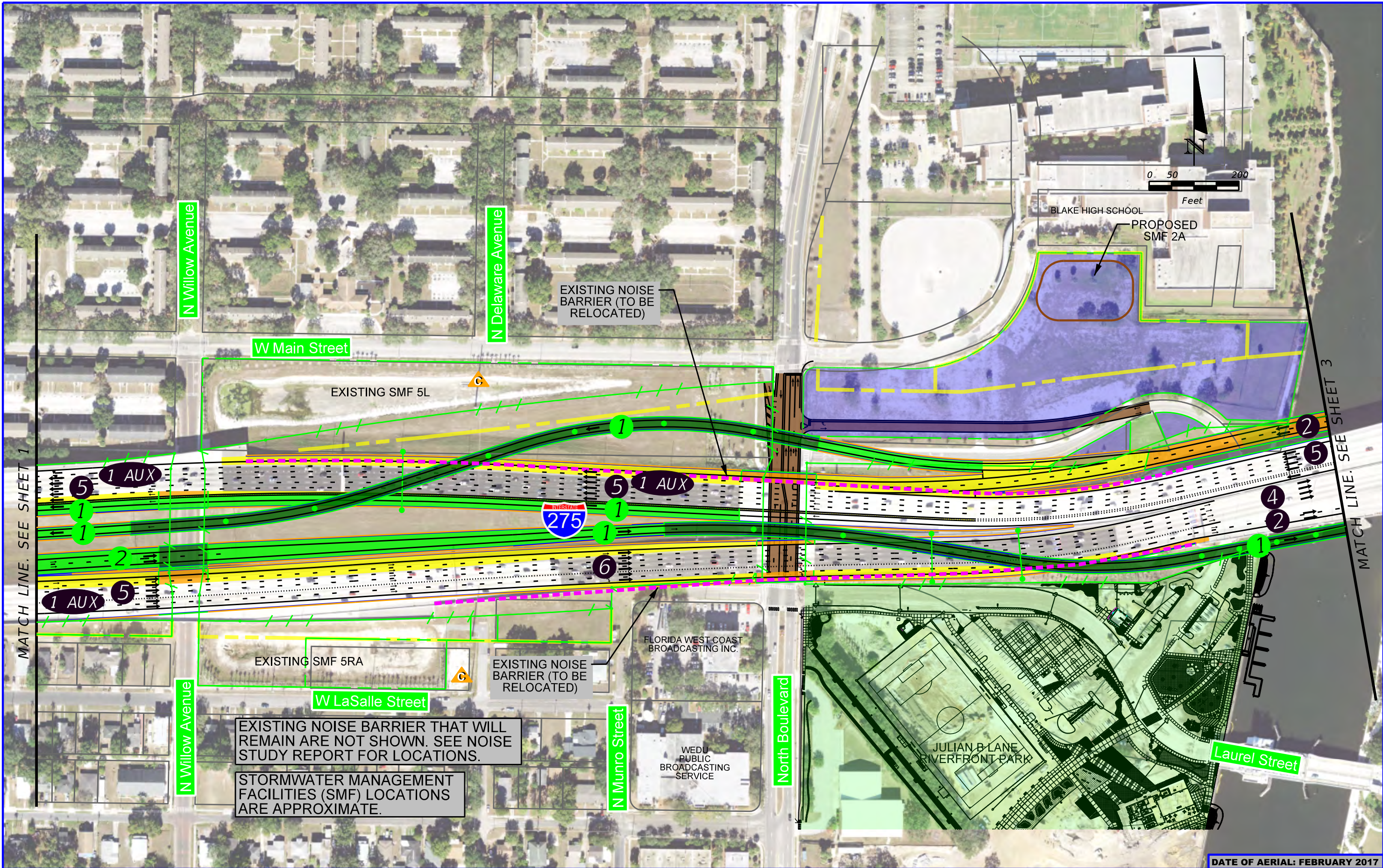
<b>LEGEND</b>	PROPOSED EXPRESS LANE	EXISTING ROADWAY REMOVAL	EXISTING RIGHT OF WAY	RESIDENTIAL RELOCATIONS	OWNED BY FDOT
	PROPOSED EXPRESS LANE - BRIDGE	NUMBER OF GENERAL USE LANES	EXISTING LIMITED ACCESS RIGHT OF WAY	BUSINESS RELOCATIONS	POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE	NUMBER OF GENERAL USE LANES	TIS/FEIS RIGHT OF WAY	PARK PROPERTIES	EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE	NUMBER OF AUXILIARY LANES	PROPOSED RIGHT OF WAY (TBD)	POTENTIAL NOISE BARRIER	
PROPOSED NON-INTERSTATE FACILITY		PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)			

DATE OF AERIAL: FEBRUARY 2017

**Tampa Interstate Study (TIS) Segments 2B, 3A & 3B**  
**PREFERRED ALTERNATIVE**  
**WPI Segment No. : 258337-2**

2A/2B SHEET NO. 1 1





**LEGEND**

PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

NUMBER OF GENERAL USE LANES

NUMBER OF GENERAL USE LANES

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

RESIDENTIAL RELOCATIONS

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

DATE OF AERIAL: FEBRUARY 2017

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

2B

SHEET NO.

2

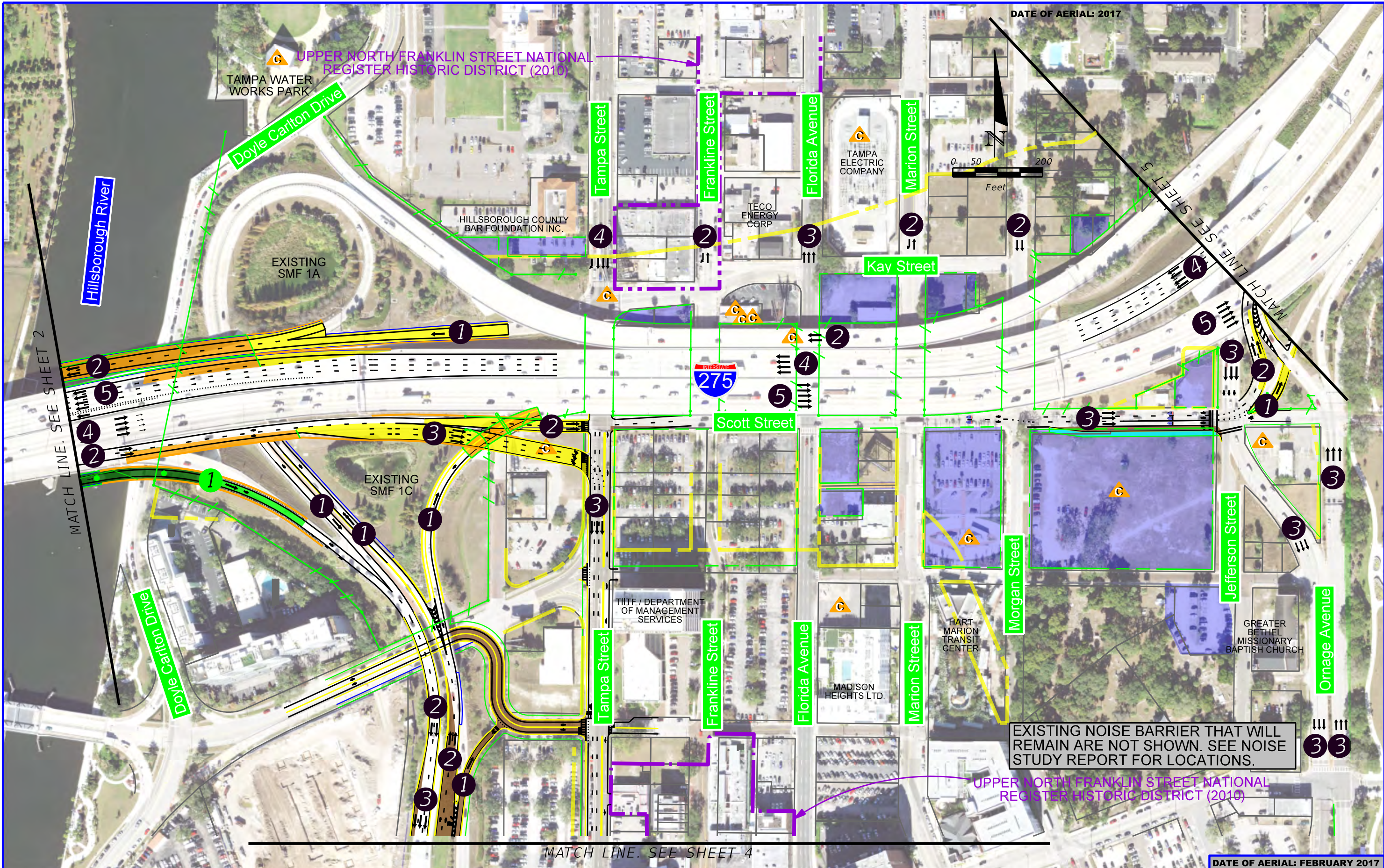
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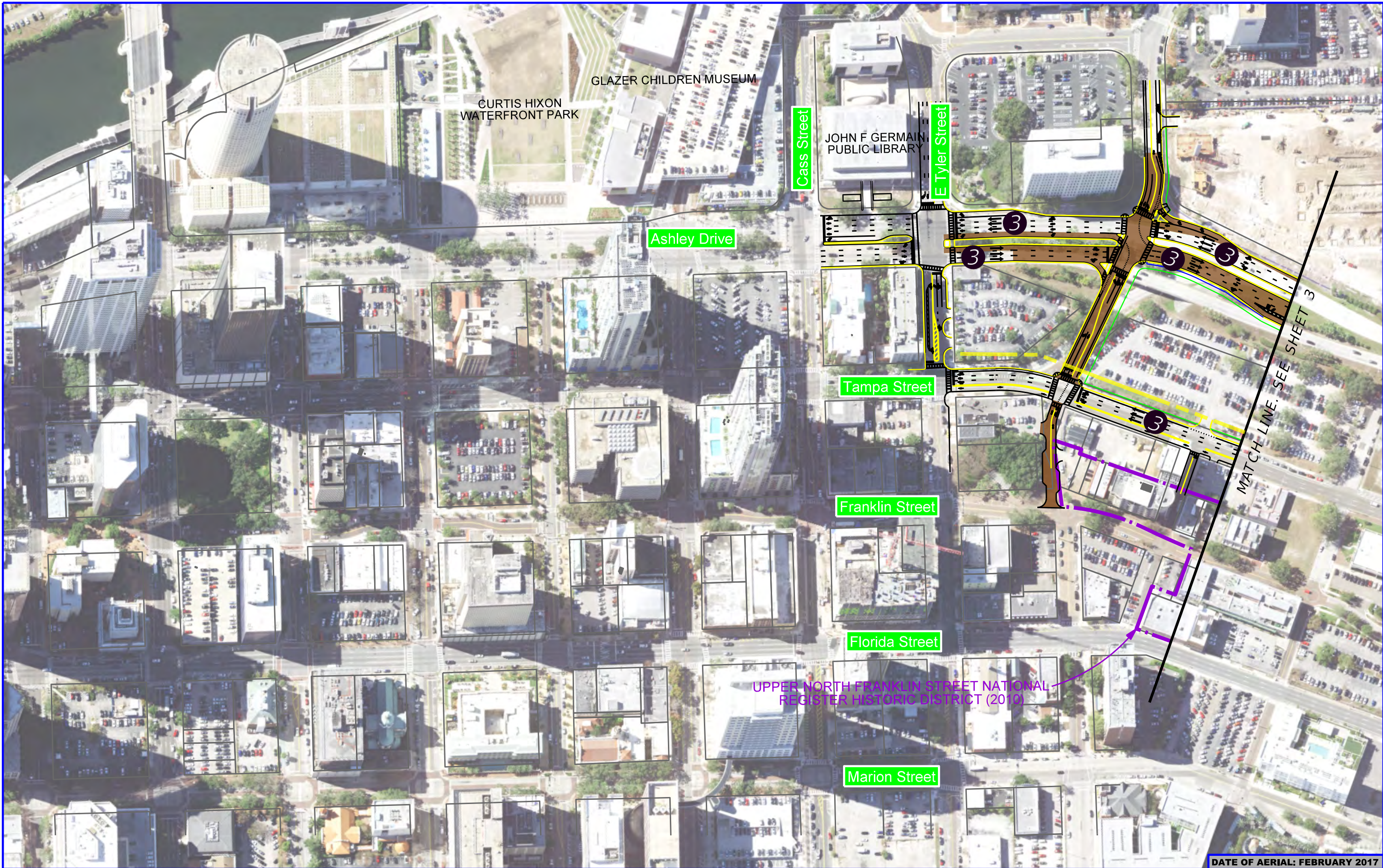


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	PROPOSED EXPRESS LANE - BRIDGE	NUMBER OF GENERAL USE LANES	EXISTING LIMITED ACCESS RIGHT OF WAY	BUSINESS RELOCATIONS	POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE	NUMBER OF GENERAL USE LANES	TIS/FEIS RIGHT OF WAY	PARK PROPERTIES	EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE	NUMBER OF AUXILIARY LANES	PROPOSED RIGHT OF WAY (TBD)	POTENTIAL NOISE BARRIER	
	PROPOSED NON-INTERSTATE FACILITY		PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)		

**Tampa Interstate Study (TIS)**  
Segments 2B, 3A & 3B  
**PREFERRED ALTERNATIVE**  
WPI Segment No. : 258337-2

2B	SHEET NO.
3	3





DATE OF AERIAL: FEBRUARY 2017

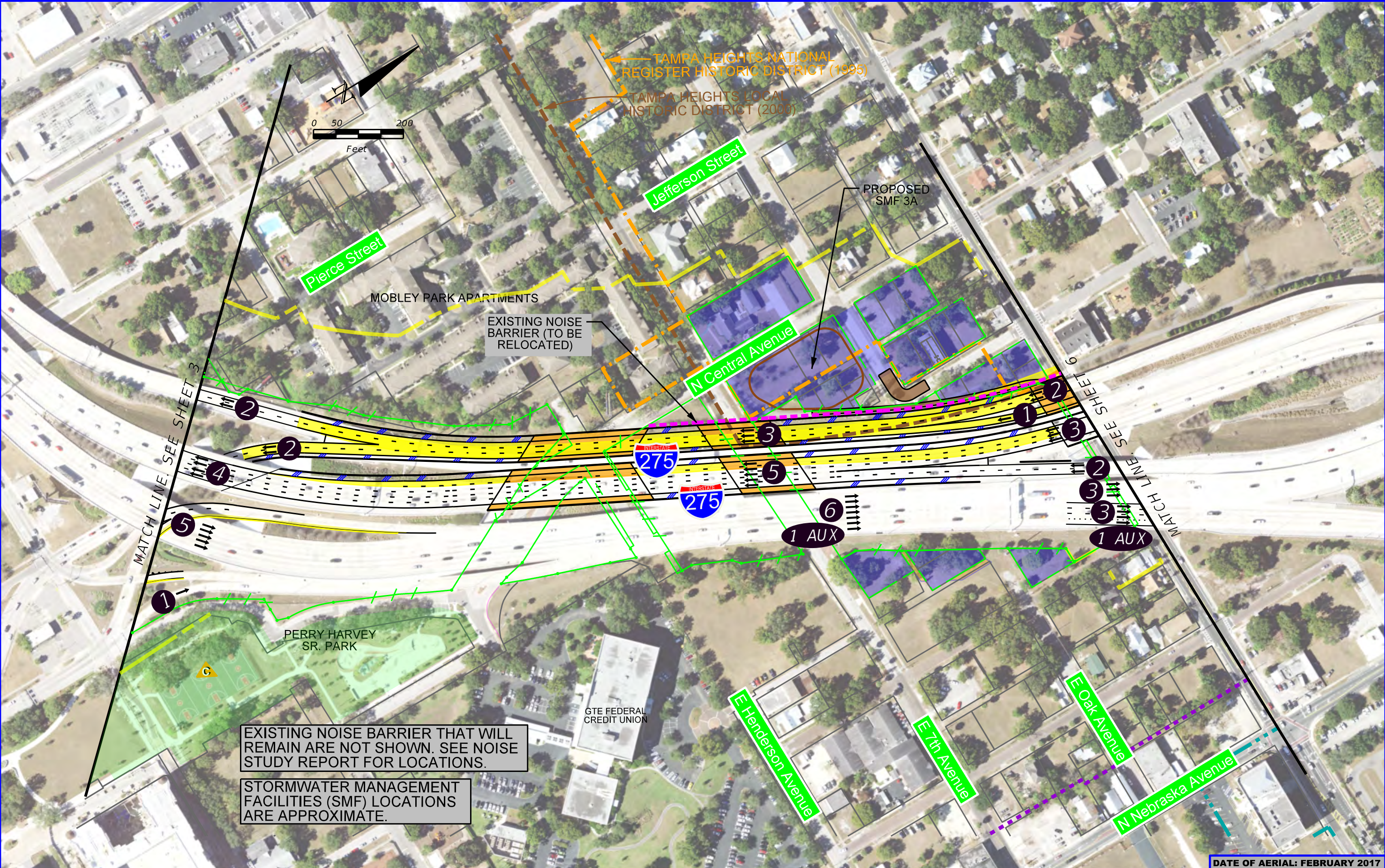
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	PROPOSED EXPRESS LANE - BRIDGE	NUMBER OF GENERAL USE LANES	EXISTING LIMITED ACCESS RIGHT OF WAY	BUSINESS RELOCATIONS	POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE	NUMBER OF GENERAL USE LANES	TIS/FEIS RIGHT OF WAY	PARK PROPERTIES	EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE	NUMBER OF AUXILIARY LANES	PROPOSED RIGHT OF WAY (TBD)		POTENTIAL NOISE BARRIER
	PROPOSED NON-INTERSTATE FACILITY		PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)		



Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

2B	SHEET NO.
4	4





EXISTING NOISE BARRIER THAT WILL REMAIN ARE NOT SHOWN. SEE NOISE STUDY REPORT FOR LOCATIONS.

STORMWATER MANAGEMENT FACILITIES (SMF) LOCATIONS ARE APPROXIMATE.

LEGEND

PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

NUMBER OF GENERAL USE LANES

NUMBER OF GENERAL USE LANES

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

RESIDENTIAL RELOCATIONS

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

DATE OF AERIAL: FEBRUARY 2017

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

2B

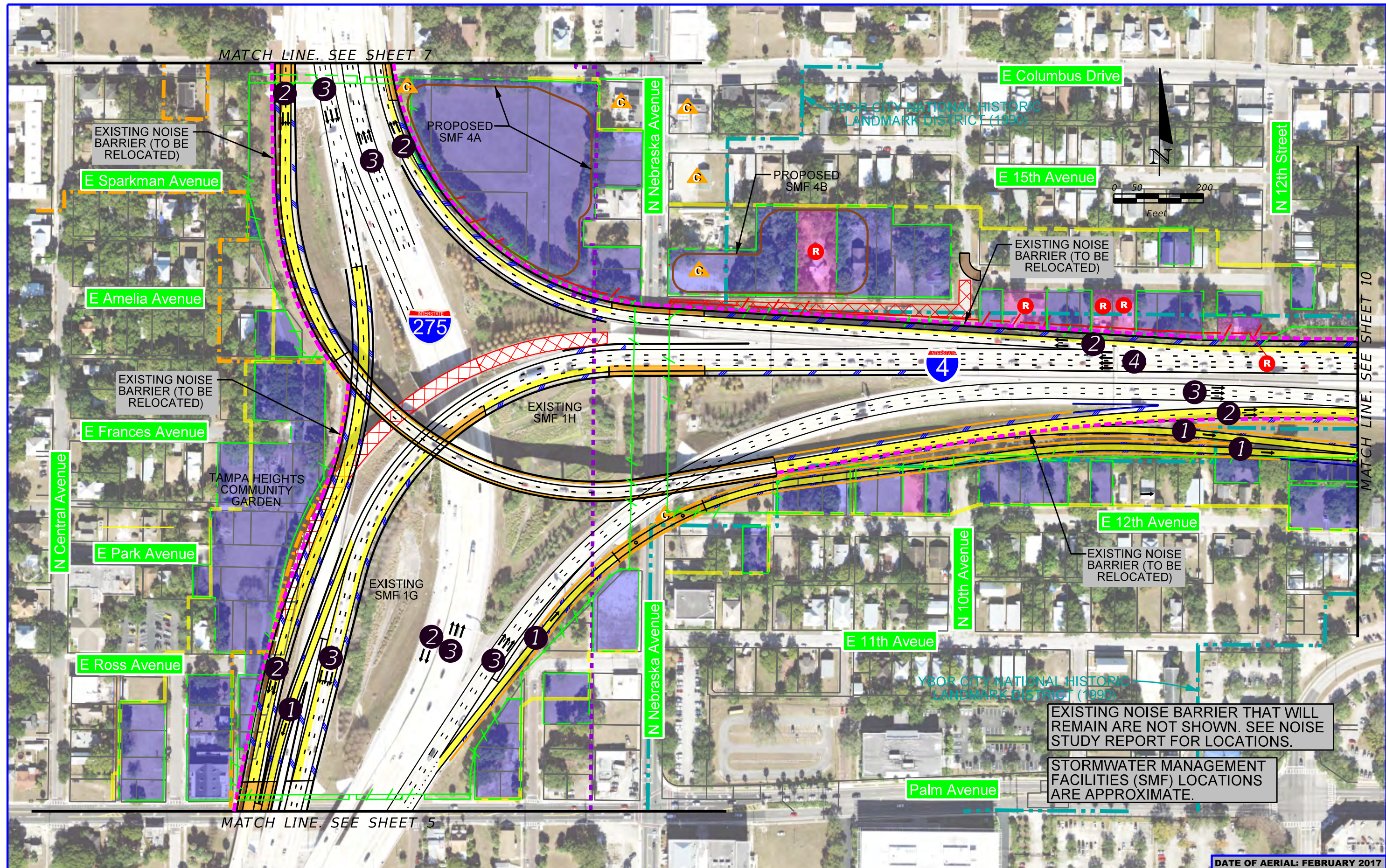
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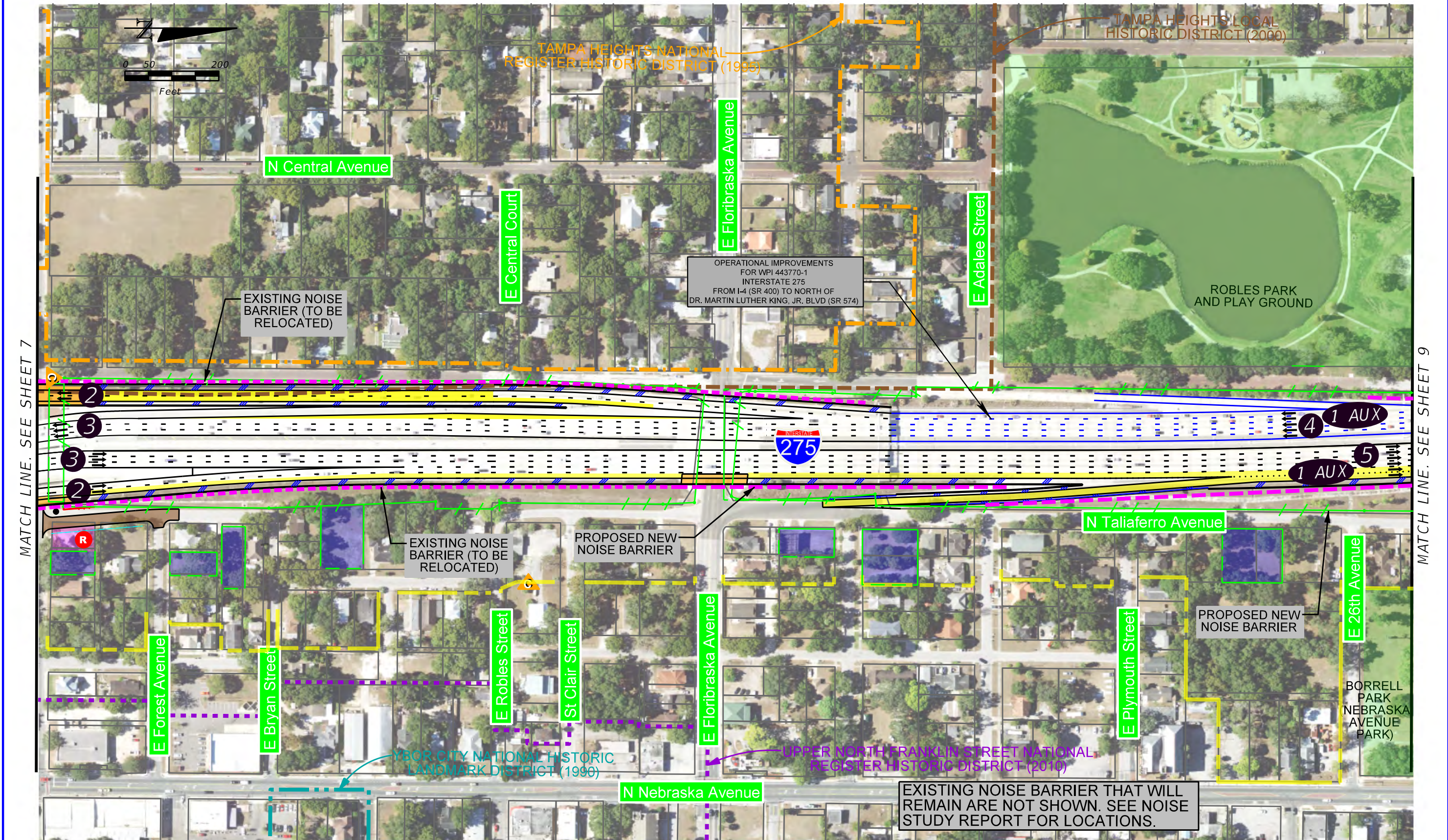
<b>LEGEND</b>		PROPOSED EXPRESS LANE		EXISTING ROADWAY REMOVAL		EXISTING RIGHT OF WAY		RESIDENTIAL RELOCATIONS		OWNED BY FDOT
		PROPOSED EXPRESS LANE - BRIDGE		NUMBER OF GENERAL USE LANES		EXISTING LIMITED ACCESS RIGHT OF WAY		BUSINESS RELOCATIONS		POTENTIALLY CONTAMINATED SITES
		PROPOSED GENERAL USE LANE		NUMBER OF GENERAL USE LANES		TIS/FEIS RIGHT OF WAY		PARK PROPERTIES		EXISTING NOISE BARRIER (TO BE RELOCATED)
		PROPOSED GENERAL USE LANE - BRIDGE		NUMBER OF AUXILIARY LANES		PROPOSED RIGHT OF WAY (TBD)				POTENTIAL NOISE BARRIER
		PROPOSED NON-INTERSTATE FACILITY				PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)				



**Tampa Interstate Study (TIS)**  
**Segments 2B, 3A & 3B**  
**PREFERRED ALTERNATIVE**  
**WPI Segment No. : 258337-2**

**SHEET NO.**  
**6**





LEGEND

PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

NUMBER OF GENERAL USE LANES

NUMBER OF GENERAL USE LANES

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

RESIDENTIAL RELOCATIONS

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

DATE OF AERIAL: FEBRUARY 2017

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

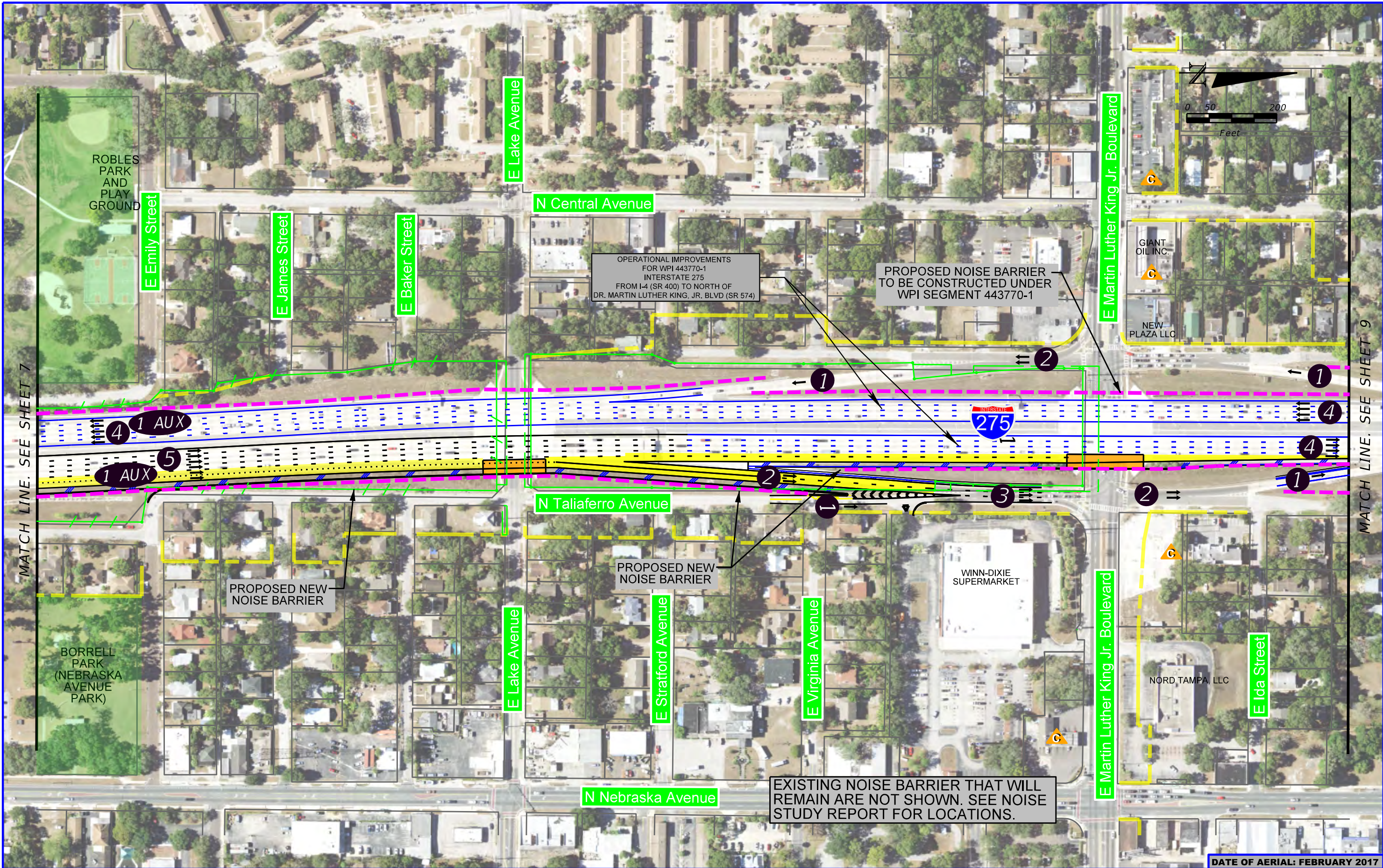
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SHEET NO.

7

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PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

3

NUMBER OF GENERAL USE LANES

2

NUMBER OF GENERAL USE LANES

1 AUX

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

Rx

RESIDENTIAL RELOCATIONS

Bx

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

C

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

FDOT

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

2B

SHEET NO.

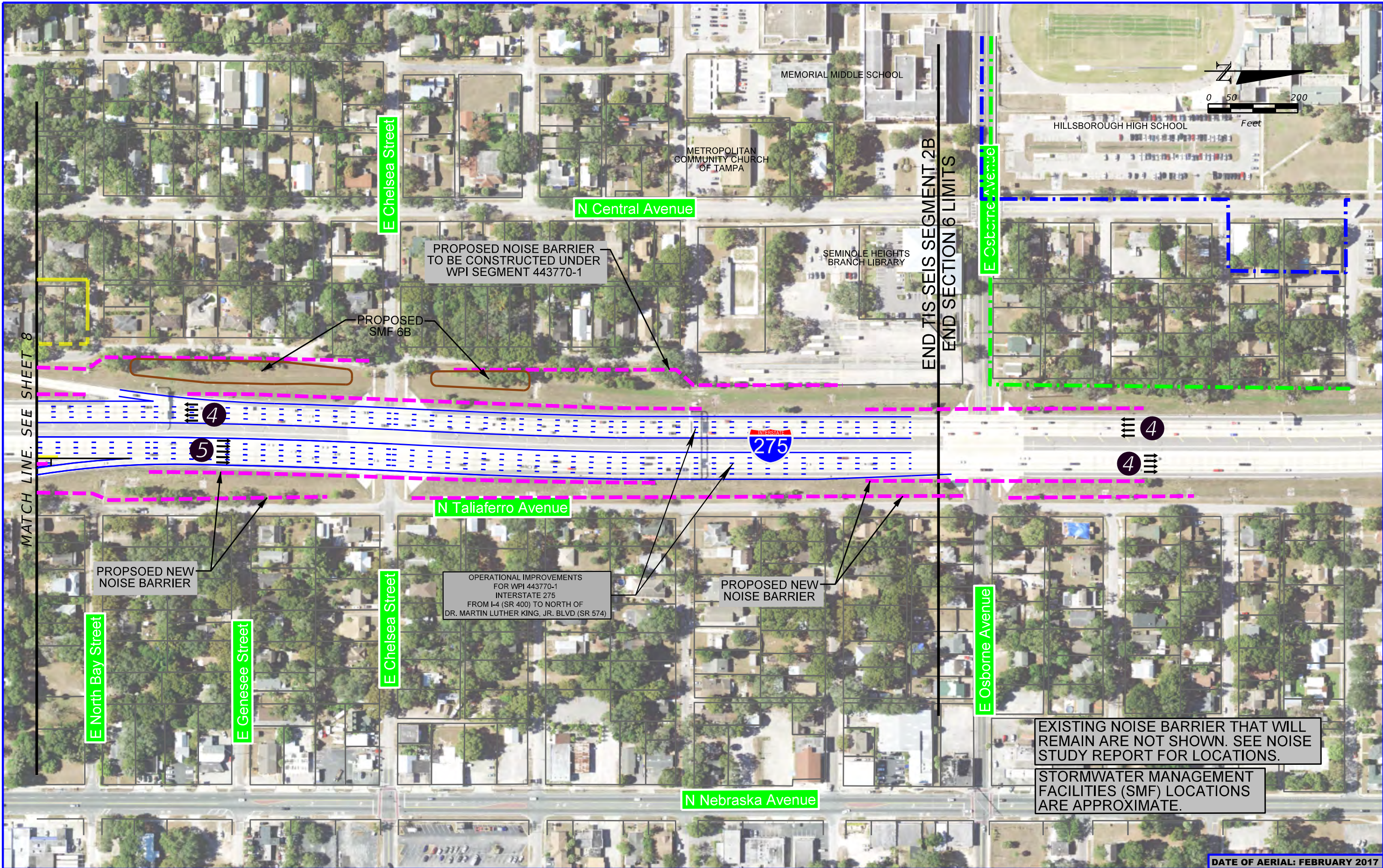
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LEGEND									
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	PROPOSED EXPRESS LANE - BRIDGE		NUMBER OF GENERAL USE LANES		EXISTING LIMITED ACCESS RIGHT OF WAY		BUSINESS RELOCATIONS		POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE		NUMBER OF GENERAL USE LANES		TIS/FEIS RIGHT OF WAY		PARK PROPERTIES		EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE		NUMBER OF AUXILIARY LANES		PROPOSED RIGHT OF WAY (TBD)				POTENTIAL NOISE BARRIER
	PROPOSED NON-INTERSTATE FACILITY				PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)				

EXISTING NOISE BARRIER THAT WILL REMAIN ARE NOT SHOWN. SEE NOISE STUDY REPORT FOR LOCATIONS.

STORMWATER MANAGEMENT FACILITIES (SMF) LOCATIONS ARE APPROXIMATE.

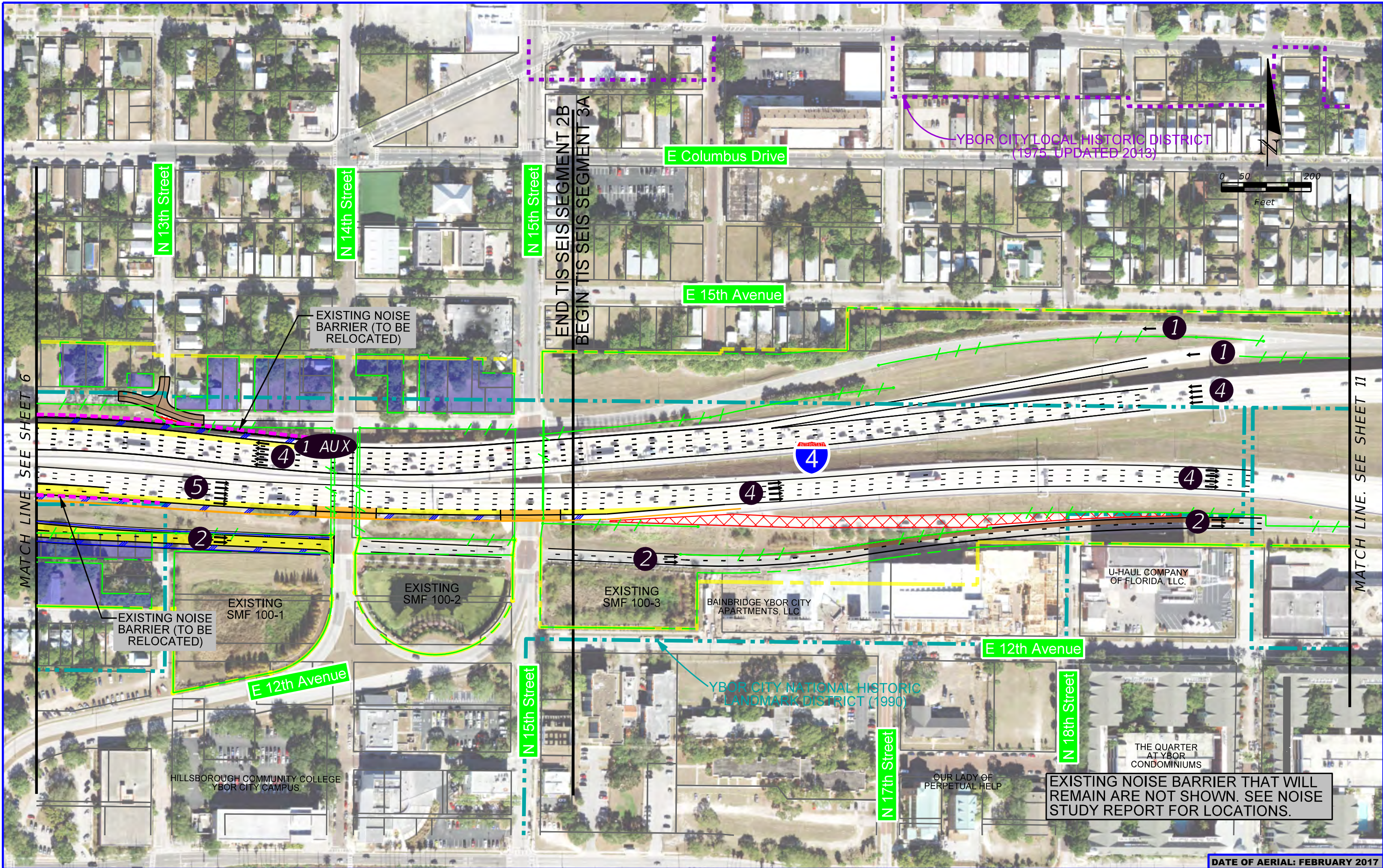
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Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

2B	SHEET NO.
9	9





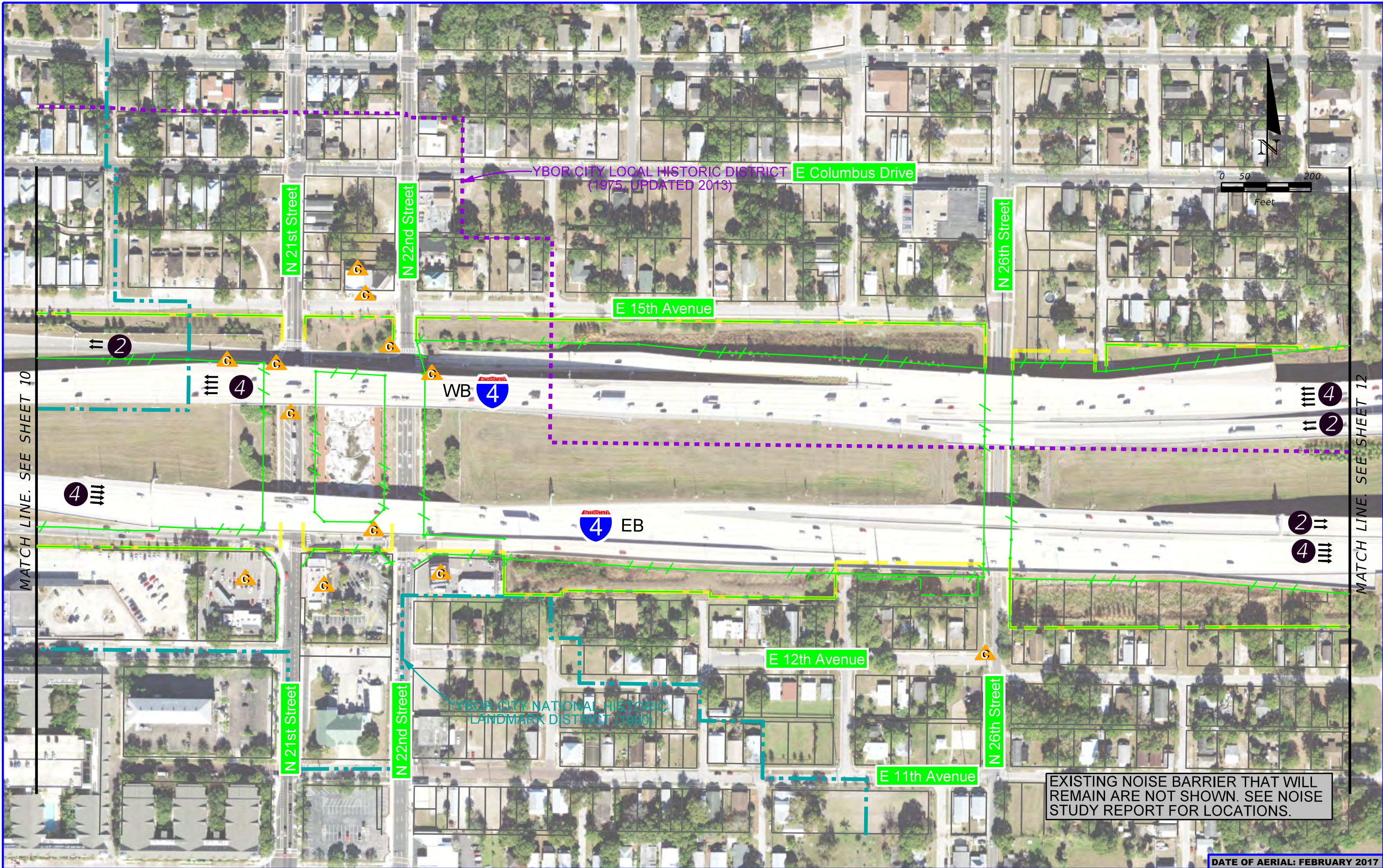
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	PROPOSED EXPRESS LANE - BRIDGE	NUMBER OF GENERAL USE LANES	EXISTING LIMITED ACCESS RIGHT OF WAY	BUSINESS RELOCATIONS	POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE	NUMBER OF GENERAL USE LANES	TIS/FEIS RIGHT OF WAY	PARK PROPERTIES	EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE	NUMBER OF AUXILIARY LANES	PROPOSED RIGHT OF WAY (TBD)		POTENTIAL NOISE BARRIER
PROPOSED NON-INTERSTATE FACILITY		PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)			

**Tampa Interstate Study (TIS)**  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

DATE OF AERIAL: FEBRUARY 2017

3A/2B	SHEET NO.
10	10





EXISTING NOISE BARRIER THAT WILL REMAIN ARE NOT SHOWN. SEE NOISE STUDY REPORT FOR LOCATIONS.

DATE OF AERIAL: FEBRUARY 2017

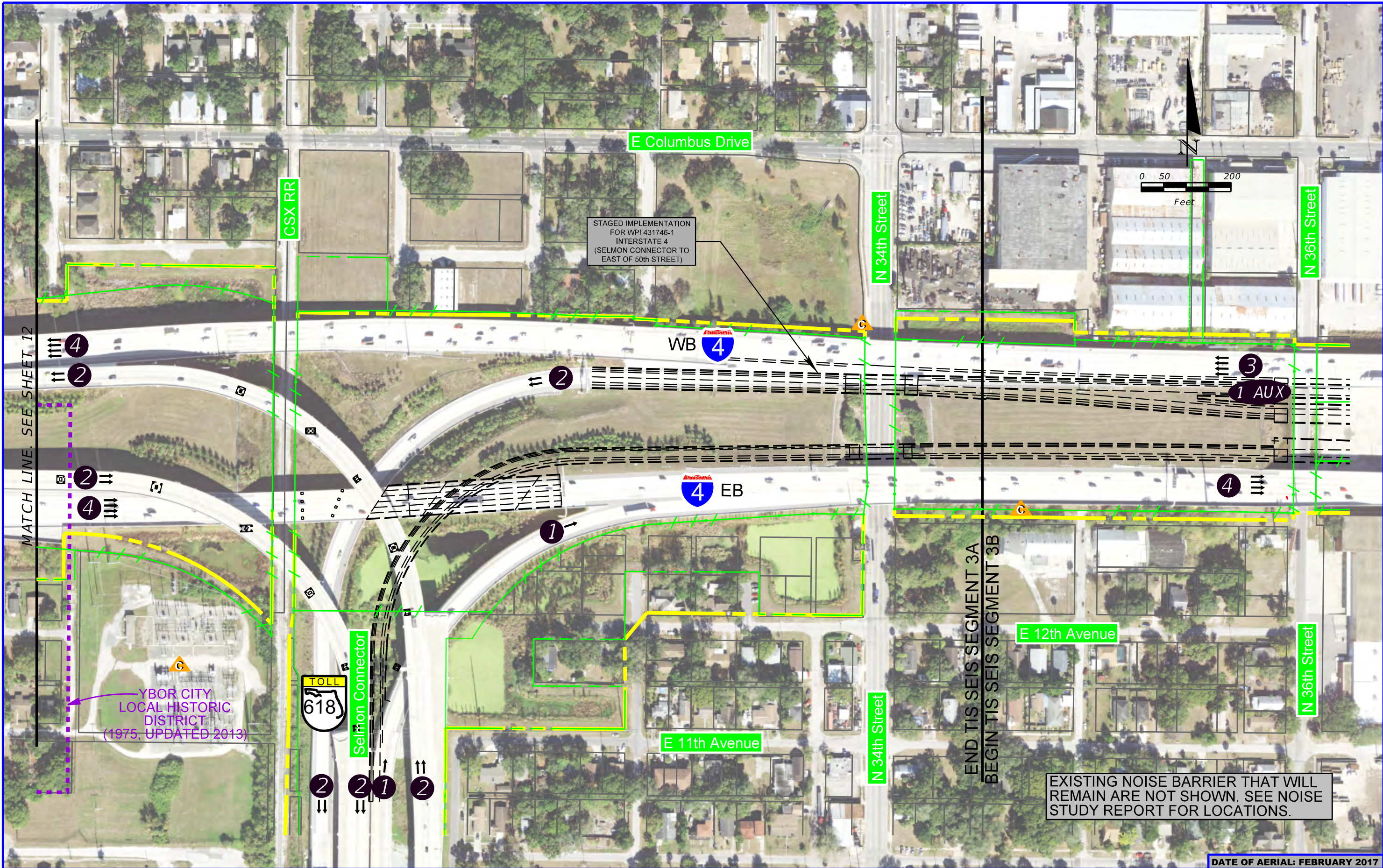
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	PROPOSED EXPRESS LANE - BRIDGE	NUMBER OF GENERAL USE LANES	EXISTING LIMITED ACCESS RIGHT OF WAY	BUSINESS RELOCATIONS	POTENTIALLY CONTAMINATED SITES
	PROPOSED GENERAL USE LANE	NUMBER OF GENERAL USE LANES	TIS/FEIS RIGHT OF WAY	PARK PROPERTIES	EXISTING NOISE BARRIER (TO BE RELOCATED)
	PROPOSED GENERAL USE LANE - BRIDGE	NUMBER OF AUXILIARY LANES	PROPOSED RIGHT OF WAY (TBD)		POTENTIAL NOISE BARRIER
	PROPOSED NON-INTERSTATE FACILITY		PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)		



Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

3A	SHEET NO.
2	11





LEGEND

PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

NUMBER OF GENERAL USE LANES

NUMBER OF GENERAL USE LANES

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

RESIDENTIAL RELOCATIONS

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

3

2

1 AUX

DATE OF AERIAL: FEBRUARY 2017

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

3A/3B SHEET NO.  
31 12

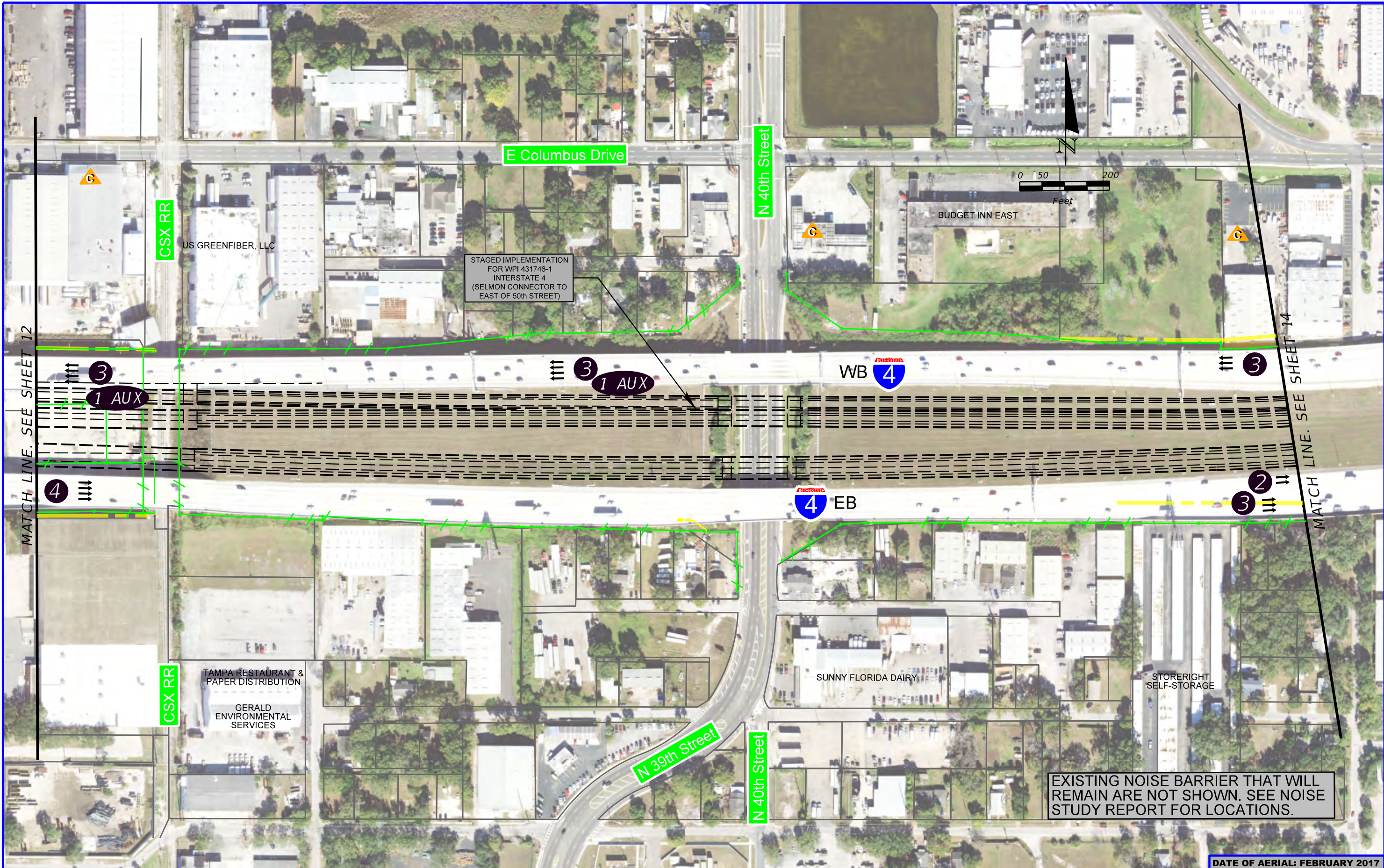
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EXISTING NOISE BARRIER THAT WILL REMAIN ARE NOT SHOWN. SEE NOISE STUDY REPORT FOR LOCATIONS.

DATE OF AERIAL: FEBRUARY 2017

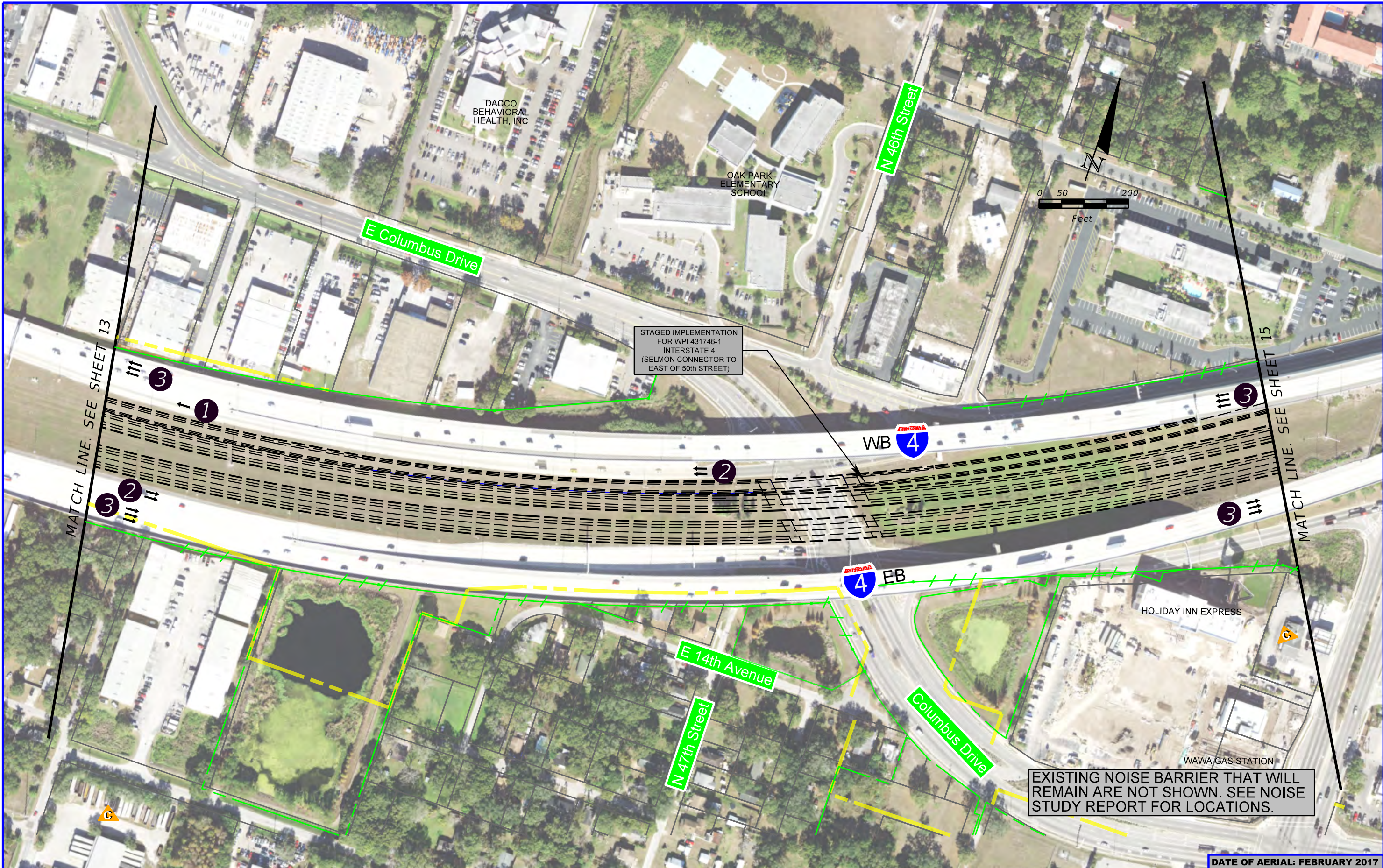
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		PROPOSED EXPRESS LANE - BRIDGE		NUMBER OF GENERAL USE LANES		EXISTING LIMITED ACCESS RIGHT OF WAY		BUSINESS RELOCATIONS		POTENTIALLY CONTAMINATED SITES
		PROPOSED GENERAL USE LANE		NUMBER OF GENERAL USE LANES		TIS/FEIS RIGHT OF WAY		PARK PROPERTIES		EXISTING NOISE BARRIER (TO BE RELOCATED)
		PROPOSED GENERAL USE LANE - BRIDGE		NUMBER OF AUXILIARY LANES		PROPOSED RIGHT OF WAY (TBD)				POTENTIAL NOISE BARRIER
		PROPOSED NON-INTERSTATE FACILITY				PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)				



Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

3B	SHEET NO.
2	13





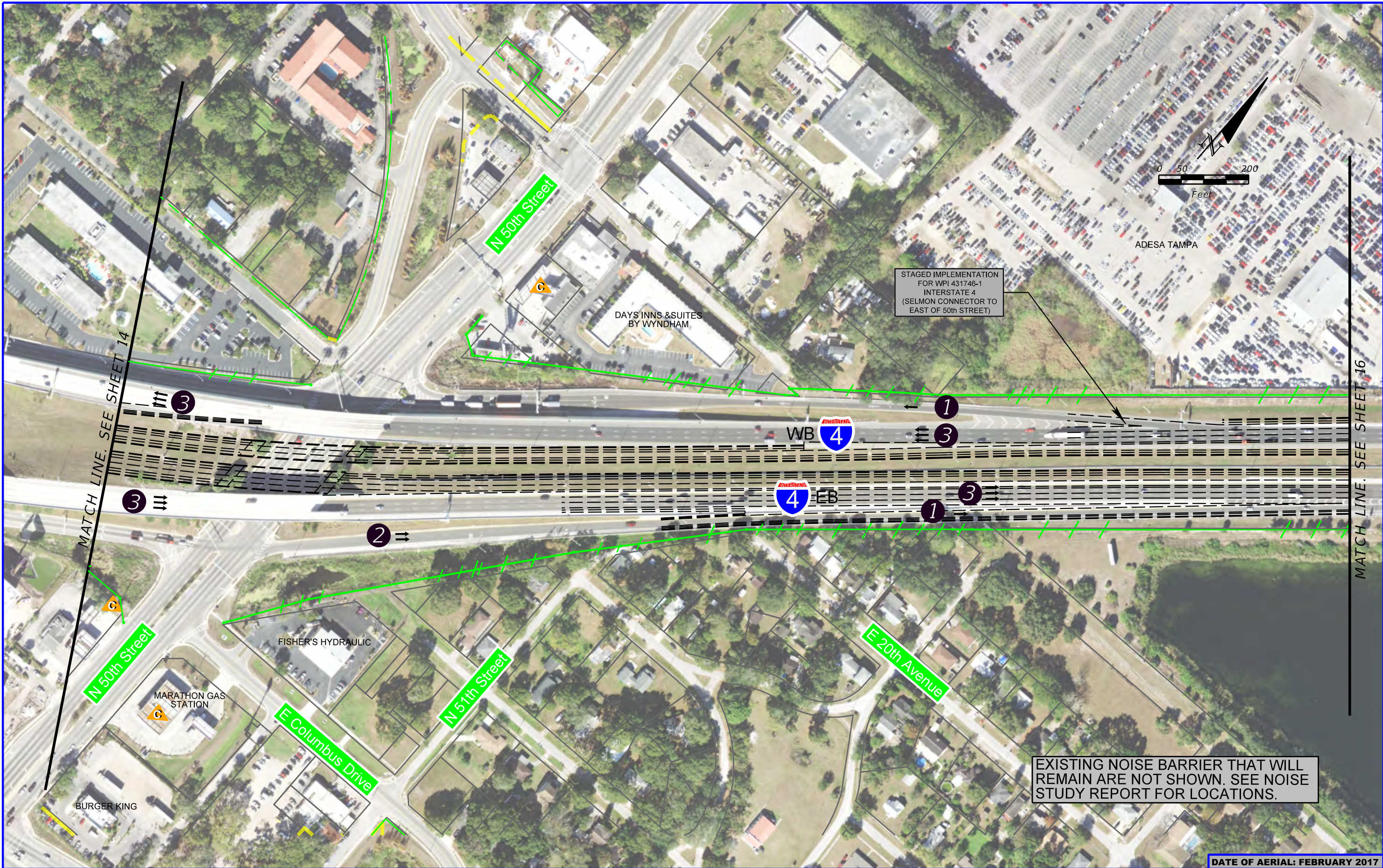
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		PROPOSED EXPRESS LANE - BRIDGE		NUMBER OF GENERAL USE LANES		EXISTING LIMITED ACCESS RIGHT OF WAY		BUSINESS RELOCATIONS		POTENTIALLY CONTAMINATED SITES
		PROPOSED GENERAL USE LANE		NUMBER OF GENERAL USE LANES		TIS/FEIS RIGHT OF WAY		PARK PROPERTIES		EXISTING NOISE BARRIER (TO BE RELOCATED)
		PROPOSED GENERAL USE LANE - BRIDGE		NUMBER OF AUXILIARY LANES		PROPOSED RIGHT OF WAY (TBD)				POTENTIAL NOISE BARRIER
		PROPOSED NON-INTERSTATE FACILITY				PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)				

DATE OF AERIAL: FEBRUARY 2017

**Tampa Interstate Study (TIS)**  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

3B	SHEET NO.
3	14





LEGEND

PROPOSED EXPRESS LANE

PROPOSED EXPRESS LANE - BRIDGE

PROPOSED GENERAL USE LANE

PROPOSED GENERAL USE LANE - BRIDGE

PROPOSED NON-INTERSTATE FACILITY

EXISTING ROADWAY REMOVAL

NUMBER OF GENERAL USE LANES

NUMBER OF GENERAL USE LANES

NUMBER OF AUXILIARY LANES

EXISTING RIGHT OF WAY

EXISTING LIMITED ACCESS RIGHT OF WAY

TIS/FEIS RIGHT OF WAY

PROPOSED RIGHT OF WAY (TBD)

PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)

RESIDENTIAL RELOCATIONS

BUSINESS RELOCATIONS

PARK PROPERTIES

OWNED BY FDOT

POTENTIALLY CONTAMINATED SITES

EXISTING NOISE BARRIER (TO BE RELOCATED)

POTENTIAL NOISE BARRIER

DATE OF AERIAL: FEBRUARY 2017

Tampa Interstate Study (TIS)  
Segments 2B, 3A & 3B  
PREFERRED ALTERNATIVE  
WPI Segment No. : 258337-2

3B  
SHEET NO.

4  
15

USER: 5devorm

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<b>LEGEND</b>		PROPOSED EXPRESS LANE		EXISTING ROADWAY REMOVAL		EXISTING RIGHT OF WAY		RESIDENTIAL RELOCATIONS		OWNED BY FDOT
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		PROPOSED GENERAL USE LANE - BRIDGE		NUMBER OF AUXILIARY LANES		PROPOSED RIGHT OF WAY (TBD)				POTENTIAL NOISE BARRIER
		PROPOSED NON-INTERSTATE FACILITY				PROPOSED LIMITED ACCESS RIGHT OF WAY (TBD)				

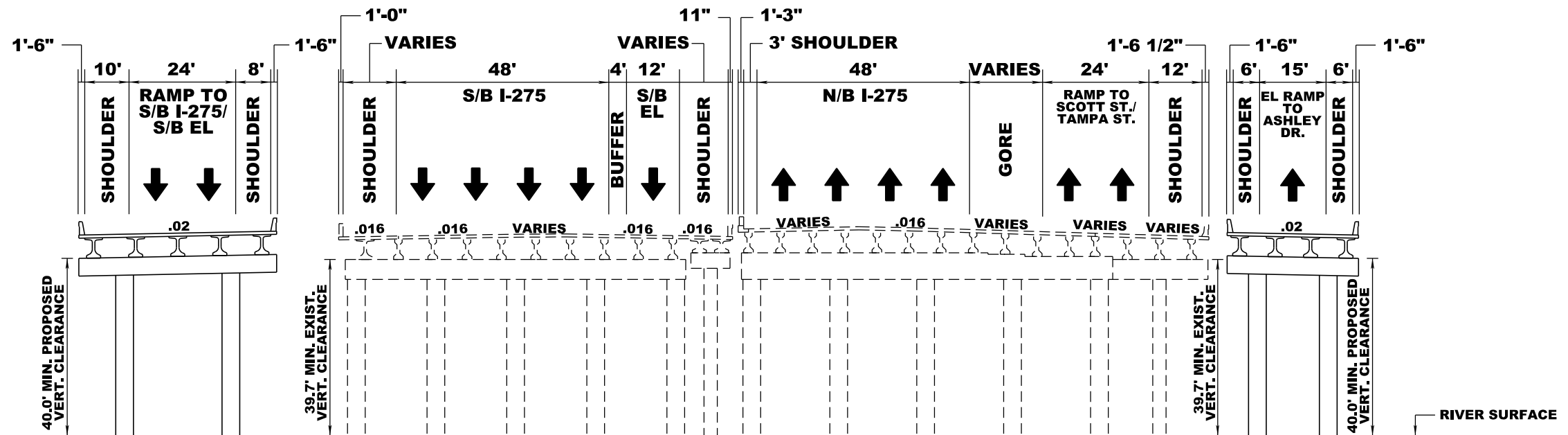
DATE OF AERIAL: FEBRUARY 2017

**Tampa Interstate Study (TIS)**  
Segments 2B, 3A & 3B  
**PREFERRED ALTERNATIVE**  
WPI Segment No. : 258337-2

3B	SHEET NO.
5	16



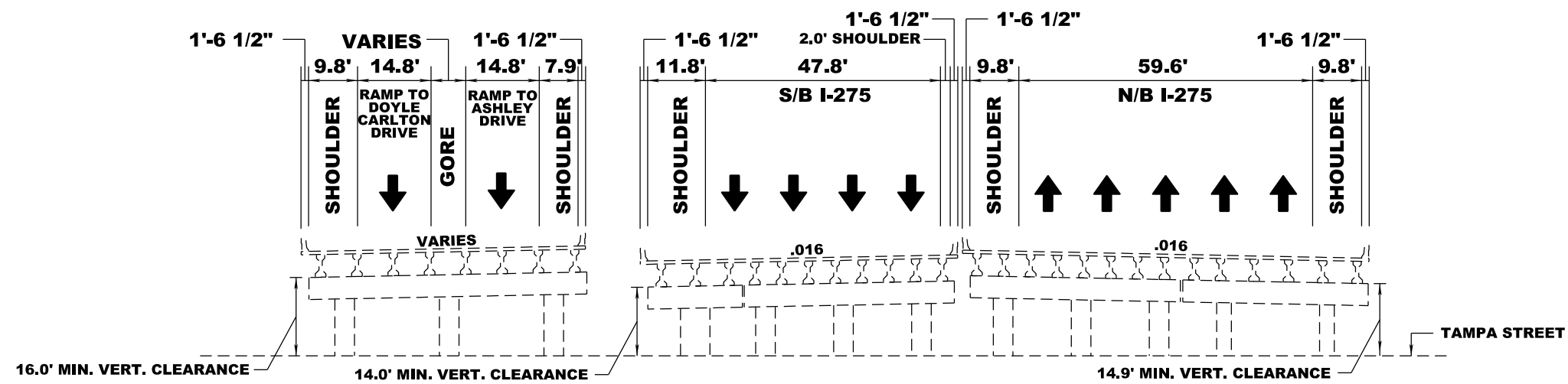
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40'  
30'  
20'  
10'  
0'



50'  
40'  
30'  
20'  
10'  
0'

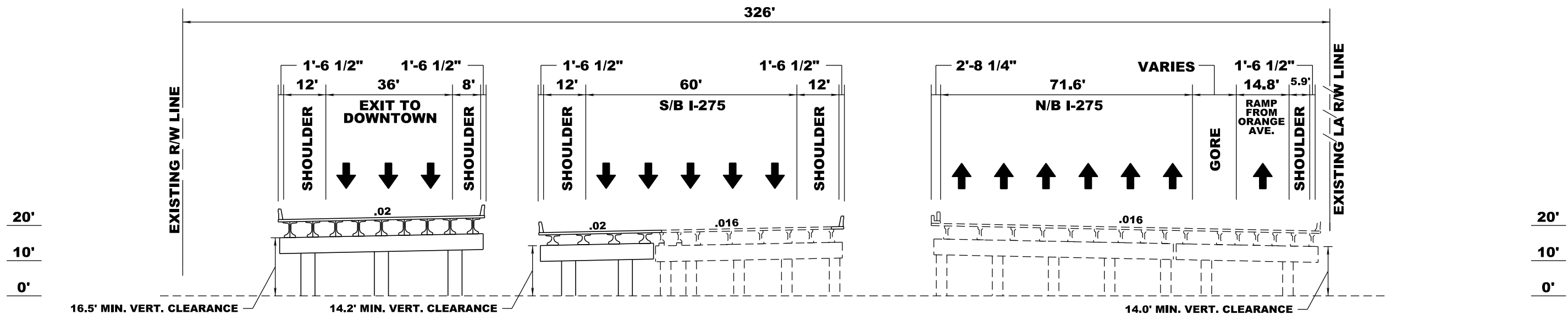
**TYPICAL SECTION  
I-275 AT HILLSBOROUGH RIVER**





**TYPICAL SECTION  
I-275 AT TAMPA STREET**

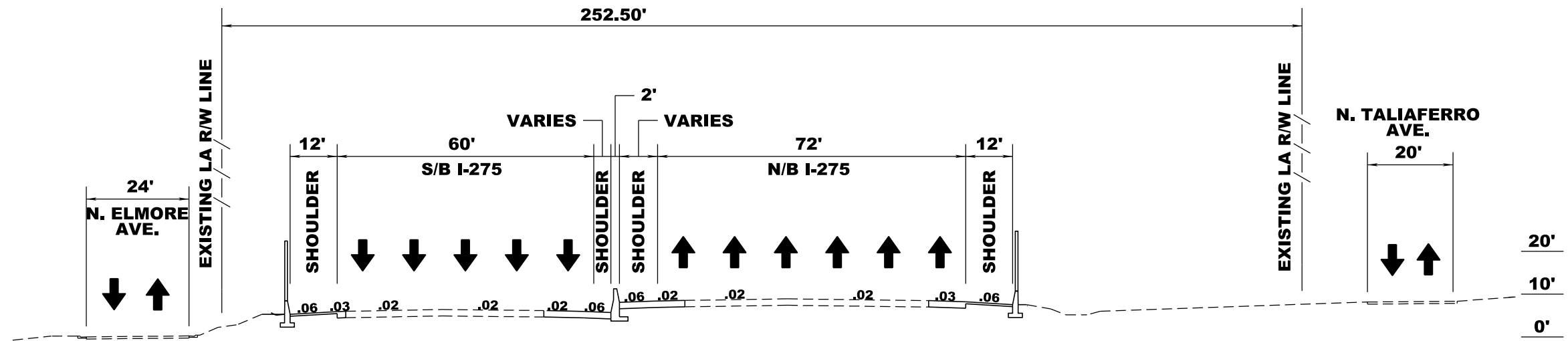




**TYPICAL SECTION  
I-275 AT HENDERSON AVENUE**



20'  
10'  
0'

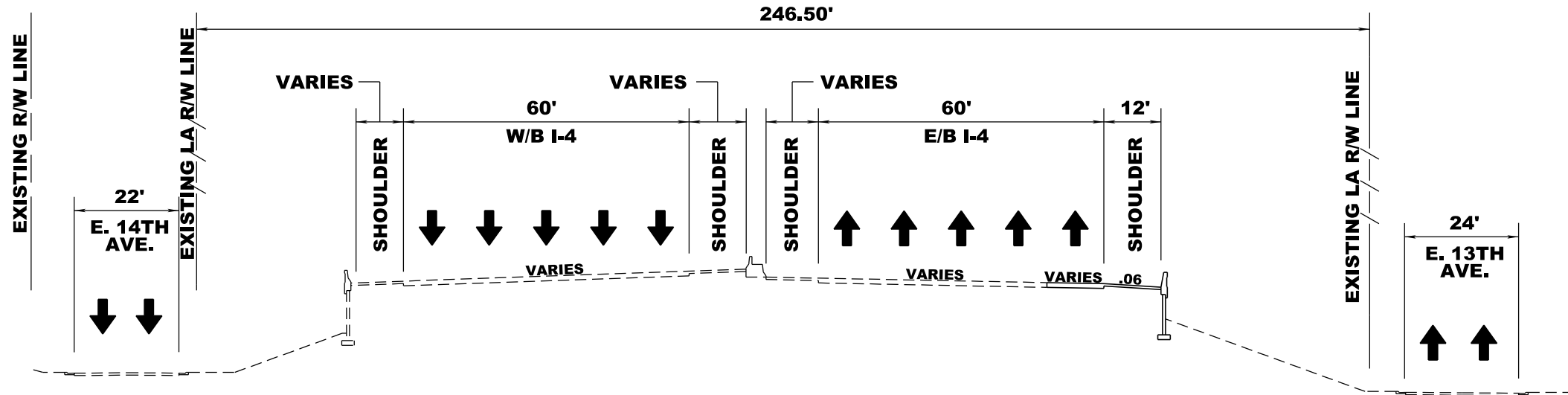


20'  
10'  
0'

**TYPICAL SECTION  
I-275 AT ROBLES PARK**



20'  
10'  
0'



20'  
10'  
0'

**TYPICAL SECTION  
I-4 AT 14TH AND 15TH STREETS**







**APPENDIX B**

**Existing Roadway**

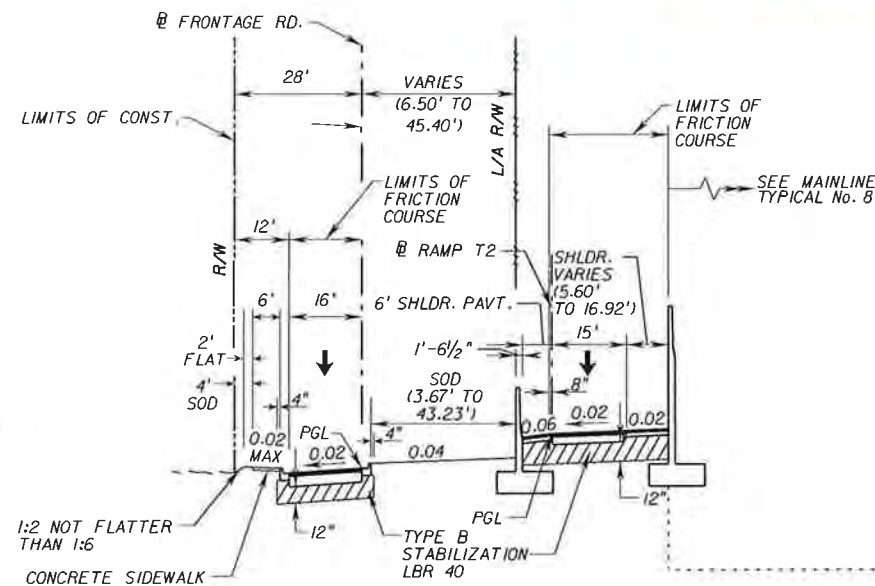
**Typical Sections**



# Typicals on I-275 West of I-4/Downtown Tampa



Released  
For  
Construction  
Date: 2-19-2014  
Production PM: *As Neely*  
Construction PA: *[Signature]*



### TYPICAL SECTION No. 9

RAMP AREA WEST OF ARMENIA AVENUE (AT PHYSICAL NOSE)  
STA 20074+05.62 TO STA 20086+48.79 (@ SB)

STA. 20061+33.45 TO 20113+55.51 (@ SB)

NEW CONSTRUCTION  
PLAIN CEMENT CONCRETE PAVEMENT (14")  
OPTIONAL BASE GROUP 1 (TYPE B-12.5 ONLY)

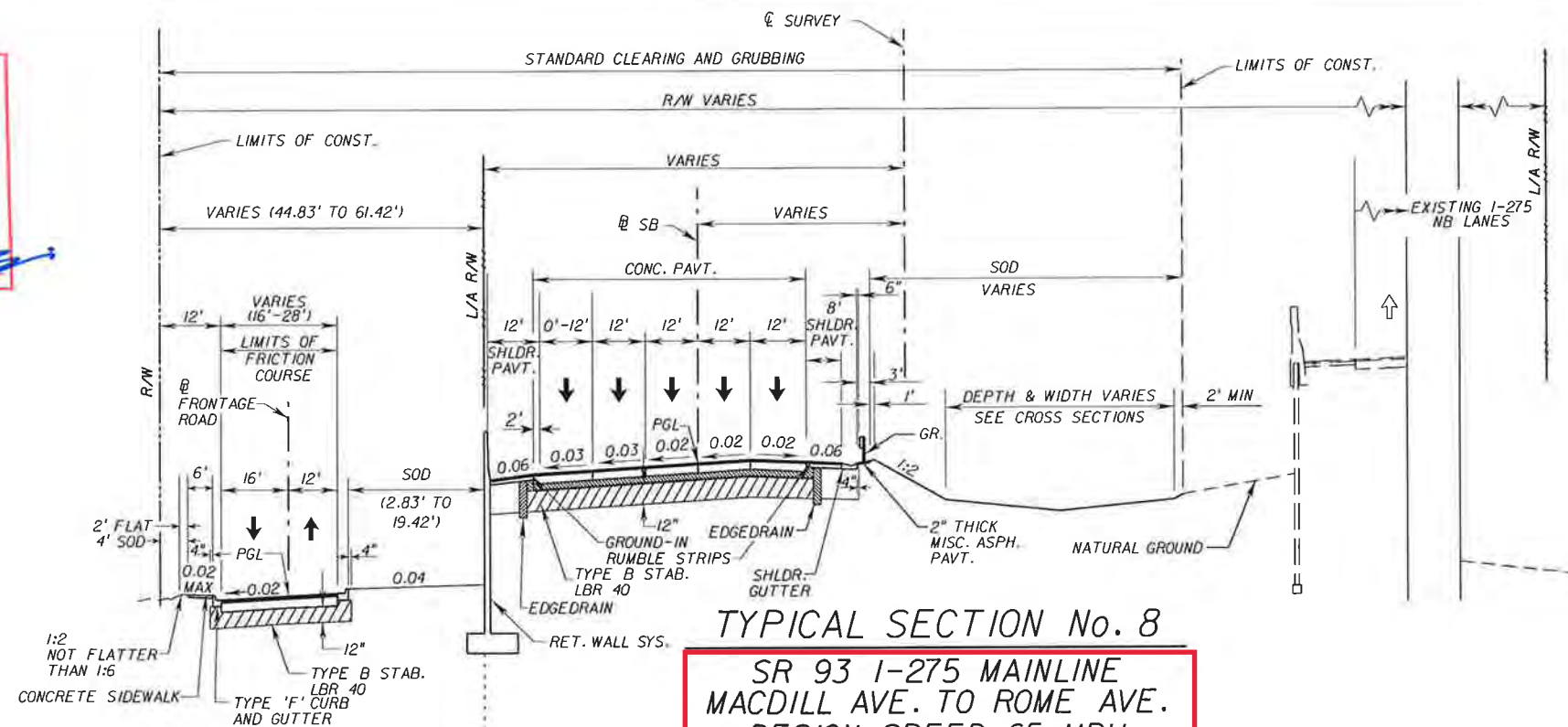
SHOULDER PAVEMENT  
OPTIONAL BASE GROUP 6 WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")

STA. 1760+57.71 TO 1813+40.00 (@ FRONTAGE RD)

DESIGN SPEED 45 MPH

FRONTAGE ROAD PAVEMENT

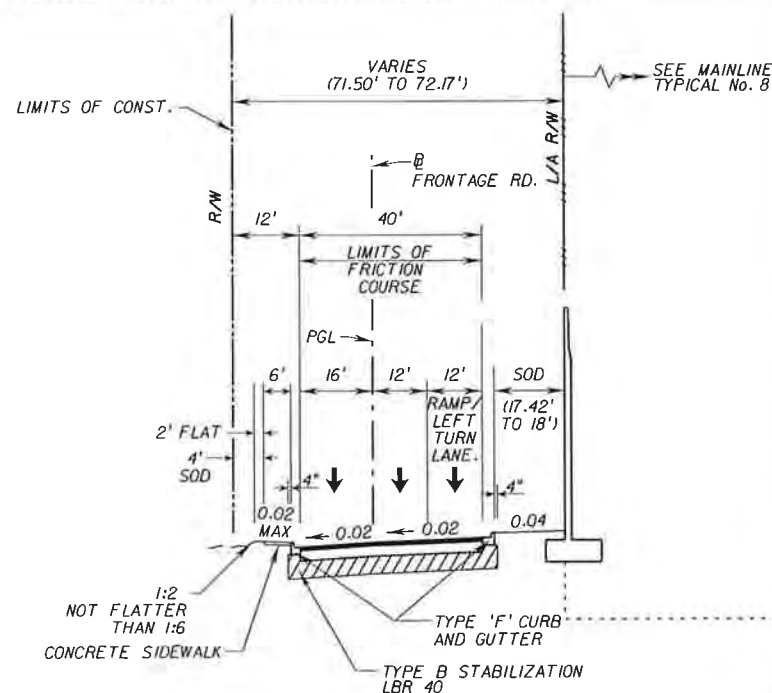
OPTIONAL BASE GROUP 12  
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (3")  
FRICTION COURSE FC-12.5 (1/2") (RUBBER)



### TYPICAL SECTION No. 8

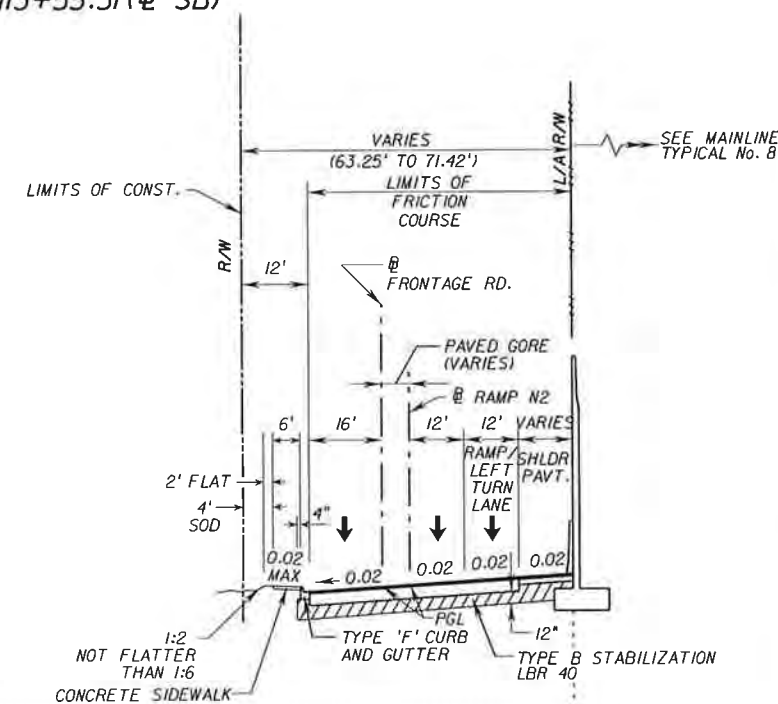
SR 93 I-275 MAINLINE  
MACDILL AVE. TO ROME AVE.  
DESIGN SPEED 65 MPH

STA 20061+33.45 TO STA 20086+48.79 (@ SB)  
STA. 20087+86.29 TO STA. 20093+18.15 (@ SB)  
STA. 20094+55.65 TO STA. 20113+55.51 (@ SB)



### TYPICAL SECTION No. 10

FRONTAGE RD.  
ARMENIA AVE. TO HOWARD AVE.  
STA 20087+86.29 TO STA 20093+18.15 (@ SB)



### TYPICAL SECTION No. 11

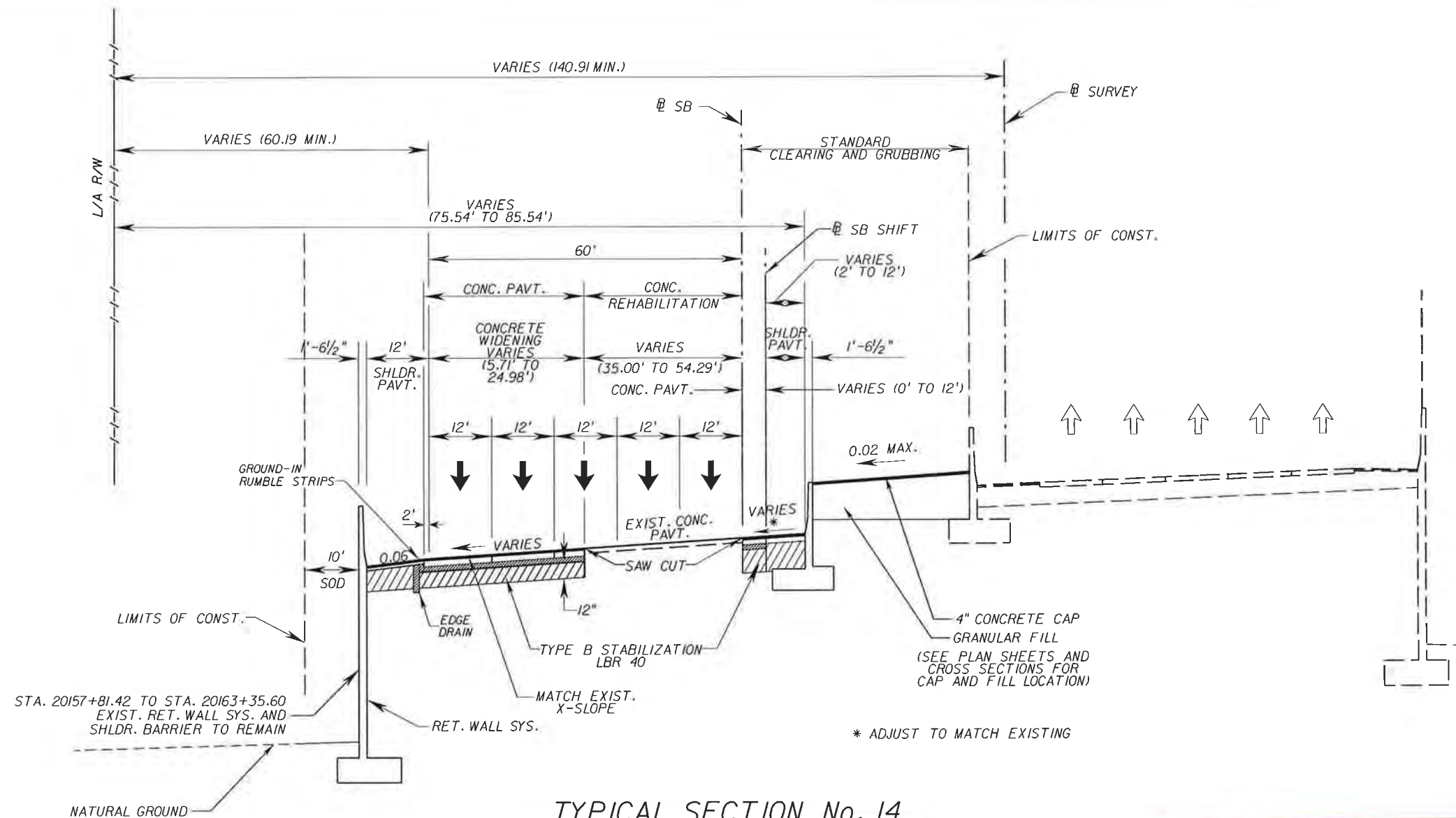
HOWARD AVE. TO ROME AVE.  
STA 20094+55.65 TO STA 20113+55.51 (@ SB)

NOTE: SEE RAMP TYPICAL SECTIONS FOR PAVEMENT STRUCTURE.



REVISIONS				PARSONS BRINCKERHOFF 2202 North West Shore Blvd, Suite 300 Tampa, Florida 33607 (813) 520-4444 Cert. of Auth. No. 01462 EOR: Charles J. Dewey, P.E. No. 68563	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS I-275	SHEET NO. 25
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 93	HILLSBOROUGH	258398-5-52-01 258399-2-52-01		





### TYPICAL SECTION No. 14

SR 93 (I-275) MAINLINE  
NORTH BOULEVARD TO HILLSBOROUGH RIVER

STA 20141+72.89 TO STA 20148+88.69 ( @ SB )  
STA 20157+95.82 TO STA. 20163+35.60 ( @ SB )

DESIGN SPEED = 50 mph

#### WIDENING

PLAIN CEMENT CONCRETE PAVEMENT (9") (MATCH EXIST. PAVT.)  
OPTIONAL BASE GROUP 1 (TYPE B-12.5 ONLY)

#### SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6 WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")

#### SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6  
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2.5")

Released  
For  
Construction  
Date: 2-19-2014  
Production PM: *[Signature]*  
Construction PA: *[Signature]*

NOTE:  
TRAFFIC AS SHOWN IN RFP.



**PARSONS  
BRINCKERHOFF**

2202 North West Shore Blvd, Suite 300  
Tampa, Florida 33607  
(813) 520-4444  
Cert. of Auth. No. 01462  
EOR: Charles J. Dewey, P.E. No. 68563

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

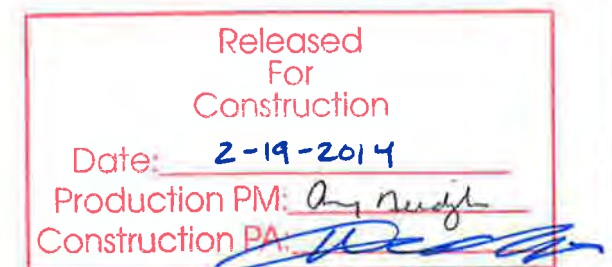
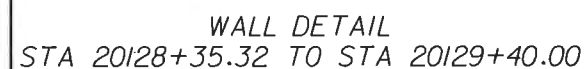
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	HILLSBOROUGH	258398-5-52-01 258399-2-52-01

**TYPICAL SECTIONS**  
**I-275**

SHEET  
NO.

26





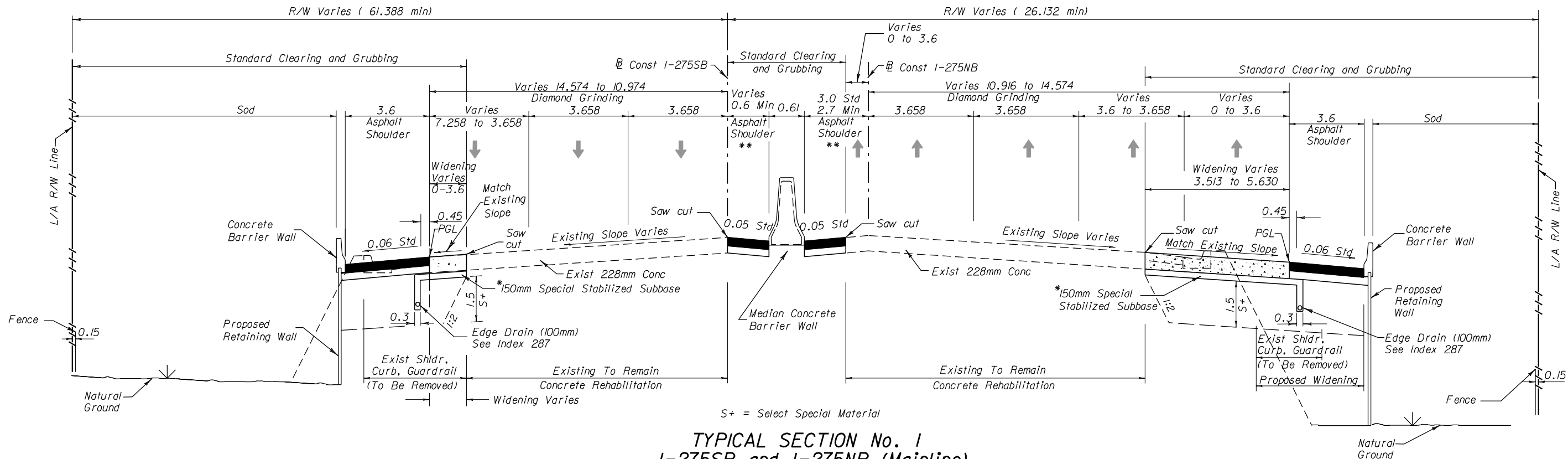
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# Typicals within the 2006 Downtown Interchange Improvements Project

Note: This was a  
metric job;  
to convert  
meters to feet  
multiply by 3.28;  
to convert Km/hr  
to MPH multiply  
by 0.621





TYPICAL SECTION No. 1  
I-275SB and I-275NB (Mainline)  
From Begin Project To Downtown Viaduct And  
From Palm Ave. To Columbus Dr.

\* See Technical Special Provisions - Embankment Material Under Concrete Pavement

NTS  
Typical Section Station Limits Do Not Include Bridges  
See Structural Plans For Bridge Typical Sections

Typical Section Notes

1. Proposed shoulder material type shown is standard. Shoulders are to be constructed of asphaltic concrete unless otherwise noted in the plans. In areas where existing shoulders are being reconstructed with no widening, reconstructed shoulders should match locations and dimensions of existing shoulders.
2. Refer to Index No. 305 for concrete pavement joints.
3. Connect only down stream ends of edge drain pipe into inlets and manholes.
4. Concrete pavement joints shall be constructed in accordance to Index No. 305. In areas where the concrete slab is in taper, the cutoff width shall be at least 1.00m unless otherwise noted, and the remaining tapered shall be completed with asphalt pavement.
5. Widened concrete pavement longitudinal joints shall not be tied to existing concrete pavement.
6. Actual width of base widening may vary due to actual existing pavement width. Contractor may elect to place uniform width base widening strip at no additional cost to the department.
7. Concrete rehabilitation includes diamond grinding, slab replacement, crack and spall repairs, joint resealing and other measures identified in the plans. See the pavement rehabilitation section in these plans for additional construction details.
8. A standard shoulder cross slope transition length of 25m is used to transition from normal shoulder cross slopes to approach slab cross slopes.
9. Sod on all slopes steeper than 1:3 shall be staked.

TRAFFIC DATA

CURRENT YEAR ESTIMATE= 1995 A.D.T. = 182,000  
OPENING YEAR ESTIMATE= 2003 A.D.T. = 182,000  
DESIGN YEAR ESTIMATE= 2010 A.D.T. = 200,000  
K = 6.9% D = 55% T = 7.3%  
Design Speed: Mainline I-275, I-4 80 KPH  
Ramps 60 KPH

Sta 313+43.865 to Sta 318+34.488 I-275NB  
Sta 211+58.765 to Sta 216+50.270 I-275SB

Roadway Widening  
Plain Cement Concrete (230mm)

Shoulders  
Optional Base Group 5 (Type B - 12.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C) or  
Plain Cement Concrete (230mm)  
150mm Special Stabilized Subbase  
See plans for specific locations

Sta 299+93.150 to Sta 301+89.975 I-275NB  
Sta 198+27.467 to Sta 200+31.315 I-275SB

Roadway Widening  
Plain Cement Concrete (350mm)

Shoulders  
Optional Base Group 15 (Type B - 12.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C)

\$DATE\$ \$TIME\$ \$FILE\$

R E V I S I O N S											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



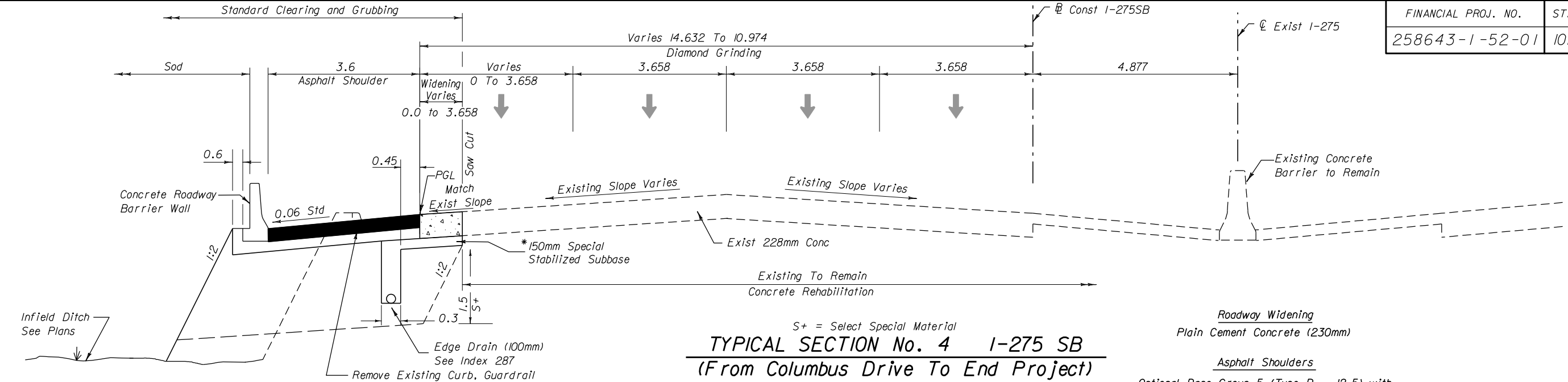
Kisinger Campo & Associates Corp.  
2203 N. Lois Avenue, Suite 1200  
Tampa, Florida 33607  
FL Certificate of Authorization No. 02317

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION









**TRAFFIC DATA**

CURRENT YEAR ESTIMATE= 1995 A.D.T. = 182,000  
OPENING YEAR ESTIMATE= 2003 A.D.T. = 182,000  
DESIGN YEAR ESTIMATE= 2010 A.D.T. = 200,000  
K = 6.9% D = 55% T = 7.3%  
Design Speed: Mainline I-275, I-4 80 KPH  
Ramps 60 KPH

Const I-275NB

S+ = Select Special Material

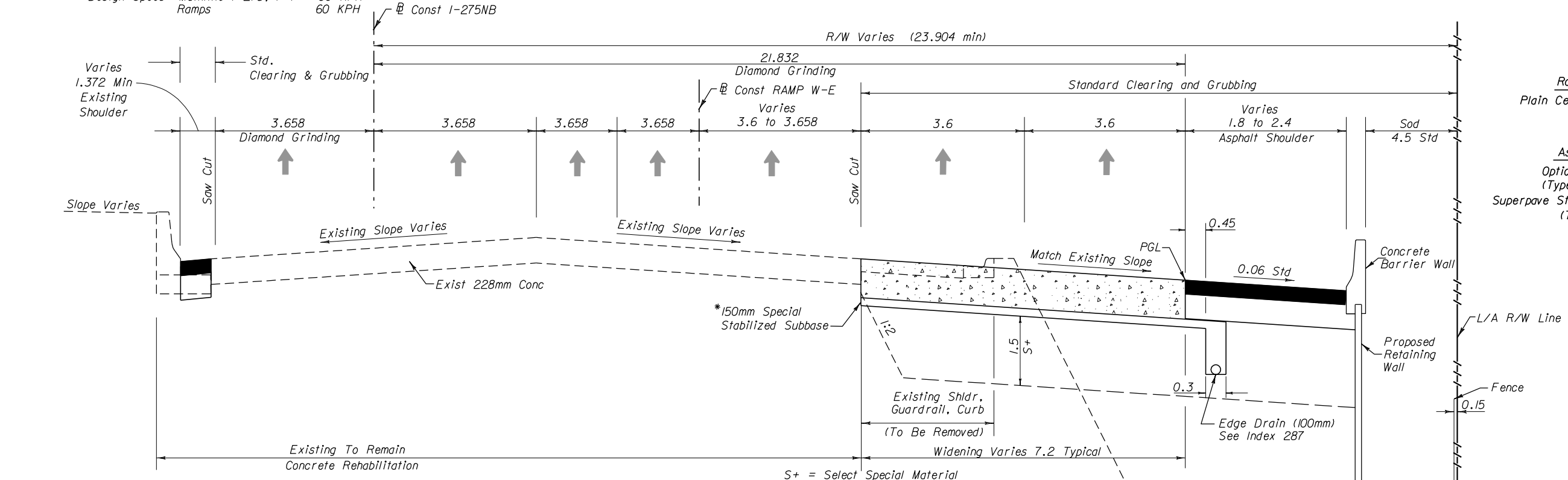
**TYPICAL SECTION No. 4 I-275 SB**  
(From Columbus Drive To End Project)

NTS

Sta 217+05.444 to Sta 220+95.893  
Sta 221+38.534 to Sta 222+25.816

**Roadway Widening**  
Plain Cement Concrete (230mm)

**Asphalt Shoulders**  
Optional Base Group 5 (Type B - 12.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C) or  
Plain Cement Concrete (230mm)  
See plans for specific locations



\* See Technical Special Provisions - Embankment Material Under Concrete Pavement

S+ = Select Special Material

**TYPICAL SECTION No. 3 I-275 NB**  
(From Henderson Ave. to the Nose with I-4 EB)

NTS

Typical Section Station Limits Do Not Include Bridges  
See Structural Plans For Bridge Typical Sections  
Sta 310+04.318 to Sta 310+63.192 I-275NB  
Sta 311+12.993 to Sta 312+95.698 I-275NB  
Sta 400+00.139 to Sta 401+34.114 Ramp W-E

**Roadway Widening**  
Plain Cement Concrete (350mm)

**Asphalt Shoulders**  
Optional Base Group 15  
(Type B - 12.5) with  
Superpave Structural Course (275 KG/M2)  
(Traffic Level C)

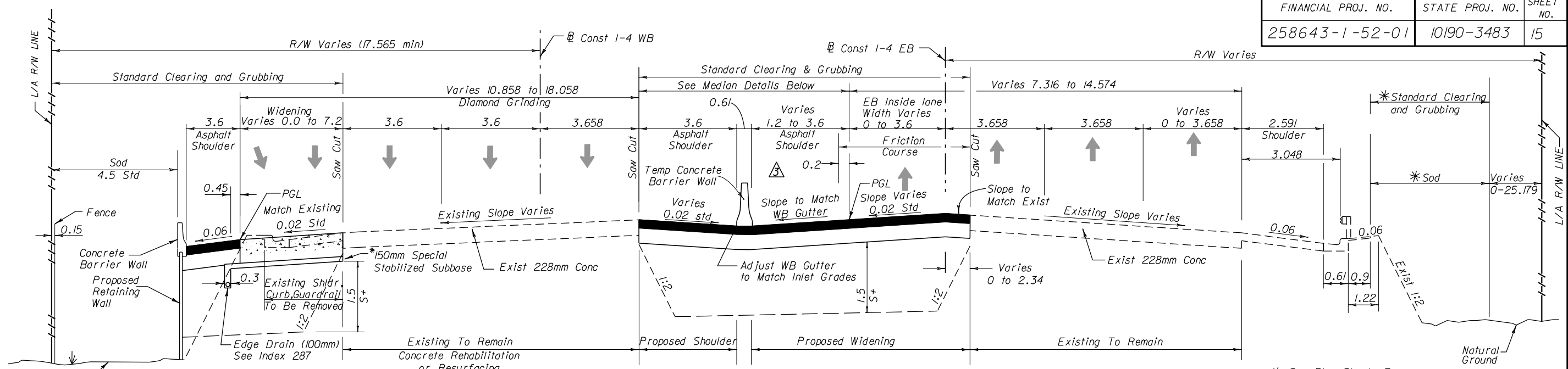
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R E V I S I O N S											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION









\* See Plan Sheets For  
Clearing and Grubbing  
Limits Sta 409+05.000 to  
Sta 411+39.034

TYPICAL SECTION No. 7 I-4 EB and I-4 WB  
(Between 12th St. and 15th St. WB)

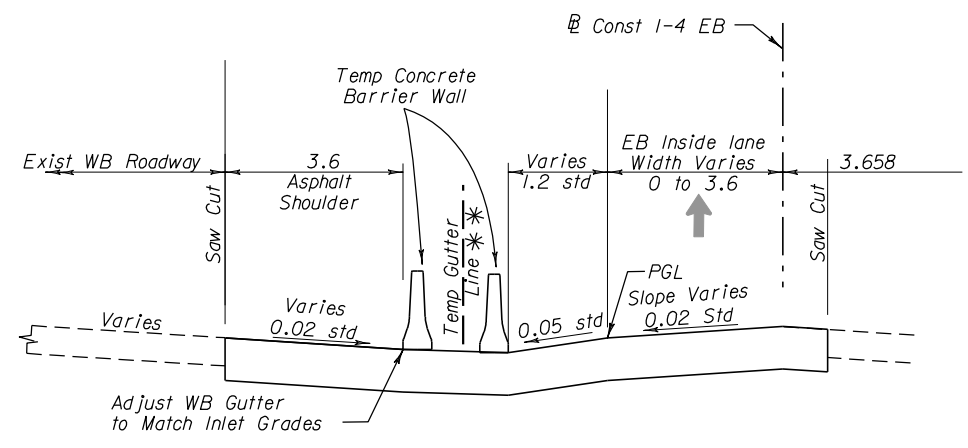
\* See Technical Special Provisions - Embankment Material Under Concrete Pavement

TRAFFIC DATA

CURRENT YEAR ESTIMATE= 1995 A.D.T. = 182,000  
OPENING YEAR ESTIMATE= 2003 A.D.T. = 182,000  
DESIGN YEAR ESTIMATE= 2010 A.D.T. = 200,000  
K = 6.9% D = 55% T = 7.3%  
Design Speed: Mainline I-275, I-4 80 KPH  
Ramps 60 KPH

NTS  
Typical Section Station Limits Do Not Include Bridges  
See Structural Plans For Bridge Typical Sections  
Sta 408+65.000 to Sta 411+26.275 I-4 EB  
Sta 109+63.170 to Sta 112+39.984 I-4 WB  
Sta 112+81.129 to Sta 113+63.769 I-4 WB  
Sta 114+04.520 to Sta 114+78.400 I-4WB

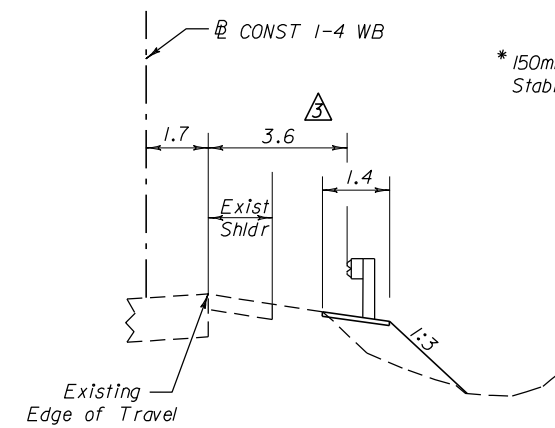
WB Roadway Widening  
Plain Cement Concrete (350mm)  
EB Roadway + all Asphalt Shoulders  
FC-5 Friction Course (44kg/m2)(Rubber)  
Optional Base Group 15 (Type B - 12.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C) or  
Plain Cement Concrete (230mm)  
See plans for specific locations



MEDIAN DETAIL 1

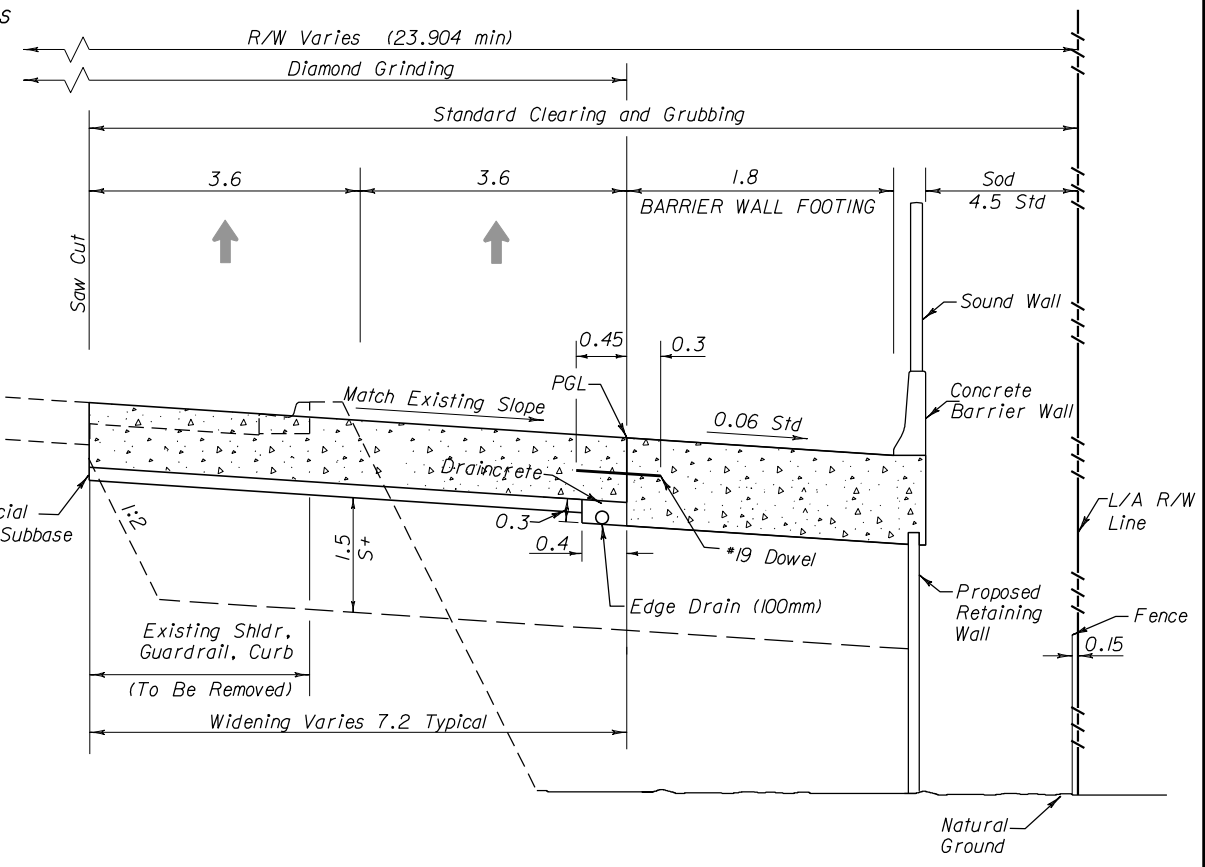
Sta 409+45.800 to Sta 411+26.275 I-4 EB  
Sta 110+60.000 to Sta 112+39.894 I-4 WB

\*\* I-4 WB Shoulder Slope Continues to  
the "Temporary Gutter Line".  
Sta 111+00 to Sta 112+11  
See Plans for Specific Location



MEDIAN DETAIL 2

Sta 114+11.271 to Sta 114+78.400 I-4 WB



TYPICAL SECTION EDGE DRAIN DETAIL  
FOR CONCRETE PAVEMENT ADJACENT TO  
(BARRIER WITH SOUND WALL) FOOTING

\$DATE\$ \$TIME\$ \$FILE\$

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
2/25/03	MJO	Revised I-4 Median, Added Details	4/16/03	CCR	RFI 008-P, Added Edge Drain Detail		

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One Lane Ramps

Ramp B	Sta. 500+05.285 to Sta. 501+70.726 Pavement Design Type No. 2
Ramp B2	Sta. 35+56.000 to Sta. 36+78.211 Pavement Design Type No. 2
Ramp D	Sta. 80+17.000 to Sta. 81+48.165 Pavement Design Type No. 3
Ramp E-W2	Sta. 41+61.638 to Sta. 42+56.058 Sta. 43+02.111 to Sta. 43+53.181 Sta. 44+12.525 to Sta. 45+92.690 Sta. 46+36.513 to Sta. 47+21.529 Pavement Design Type No. 3
Ramp E-N	Sta. 72+43.843 to Sta. 72+68.298 Sta. 73+23.382 to Sta. 75+49.202 Sta. 76+00.908 to Sta. 78+26.075 Pavement Design Type No. 3
Ramp N-E	Sta. 21+27.690 to Sta. 24+16.626 Sta. 27+42.293 to Sta. 29+23.539 Sta. 29+79.044 to Sta. 33+47.434 Pavement Design Type No. 3
Ramp Y	Sta. 90+09.638 to Sta. 91+20.990 Pavement Design Type No. 3

2 Lane Ramps

Ramp B	Sta. 505+66.485 to Sta. 508+81.368 Sta. 509+56.874 to Sta. 510+10.926 (Shldr Only) Sta. 510+60.948 to Sta. 512+42.418 (Shldr Only) Sta. 512+86.290 to Sta. 516+87.229 Pavement Design Type No. 2
Ramp E-W	Sta. 101+52.125 to Sta. 104+02.125 Sta. 104+51.850 to Sta. 105+46.379 Sta. 105+97.936 to Sta. 109+63.170 Pavement Design Type No. 3

- \*\*1 3.6 Ramp E-W  
\*\*2 3.0 Ramp E-W

Typical Section Station Limits Do Not Include Bridges  
See Structural Plans For Bridge Typical Sections

Design Speed all Ramps 60km/h  
For Traffic Data, See Interchange Layout

WIDENED RAMPS WILL USE THE SAME PAVEMENT  
DESIGN AS THE FULLY CONSTRUCTED RAMP.

Pavement Design Types

Design Type 2

Roadway

Plain Cement Concrete (270mm)

Shoulders

Optional Base Group 8 (Type B - I2.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C) or  
Plain Cement Concrete (230mm)  
See plans for specific locations.

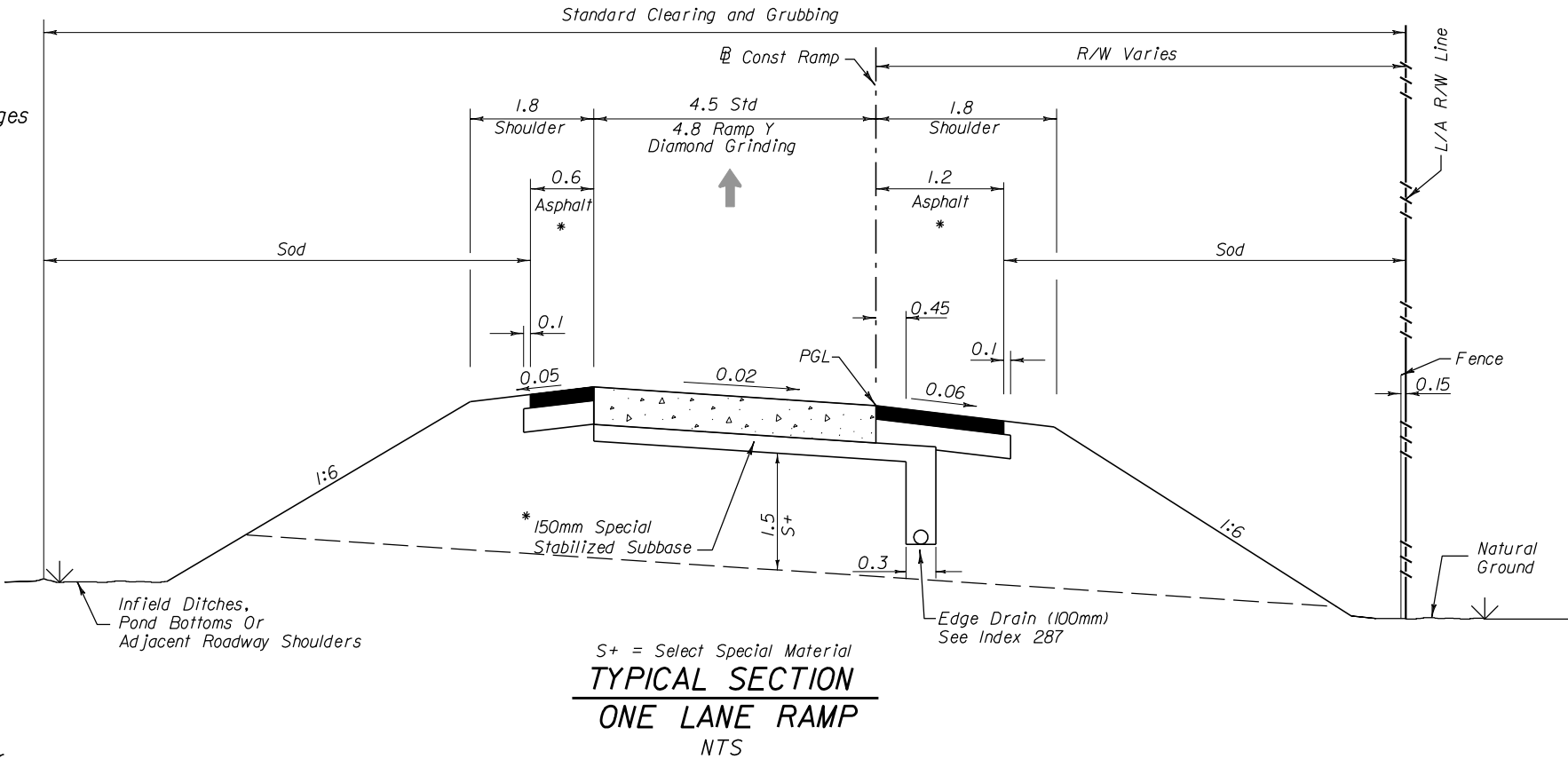
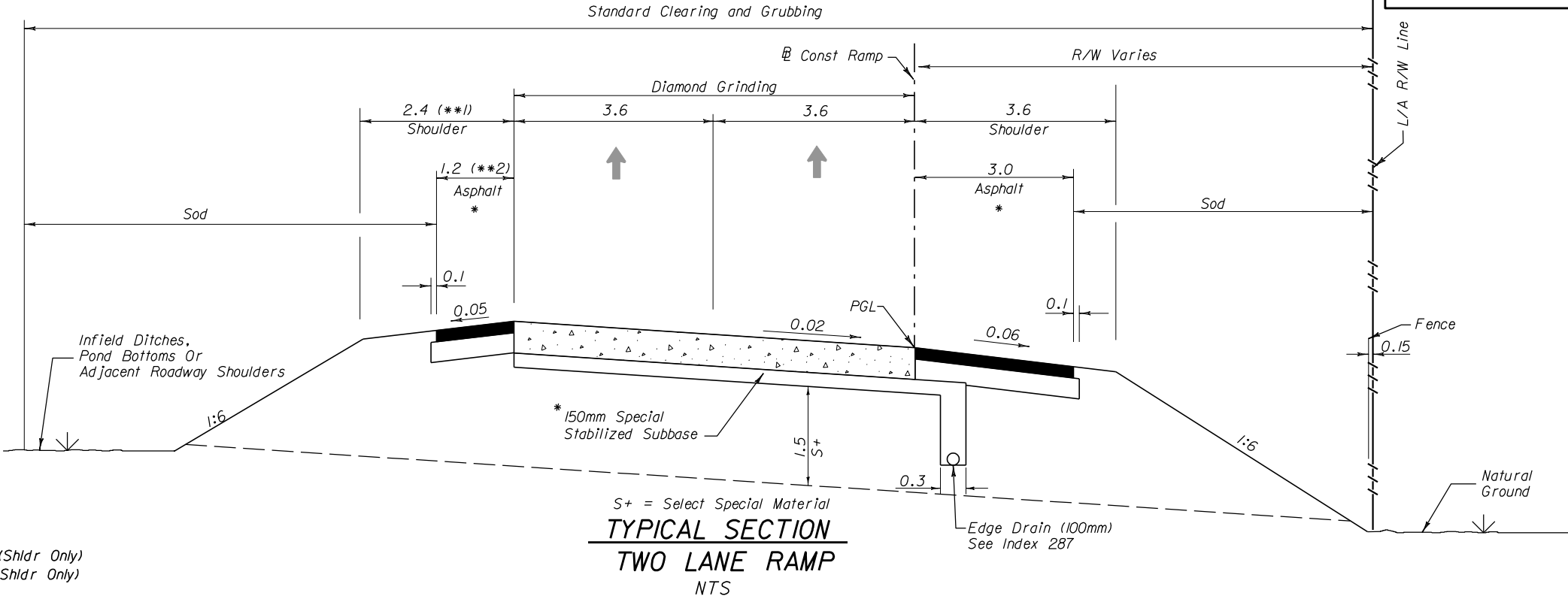
Design Type 3

Roadway

Plain Cement Concrete (350mm)

Asphalt Shoulders

Optional Base Group 15 (Type B - I2.5) with  
Superpave Structural Course (275 KG/M2) (Traffic Level C) or  
Plain Cement Concrete (230mm)  
See plans for specific locations.



\* See Technical Special Provisions - Embankment Material Under Concrete Pavement

\$DATE\$ \$TIME\$ \$FILE\$

R E V I S I O N S											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Kisinger Campo & Associates Corp.  
2203 N. Lois Avenue, Suite 1200  
Tampa, Florida 33607  
FL Certificate of Authorization No. 02317

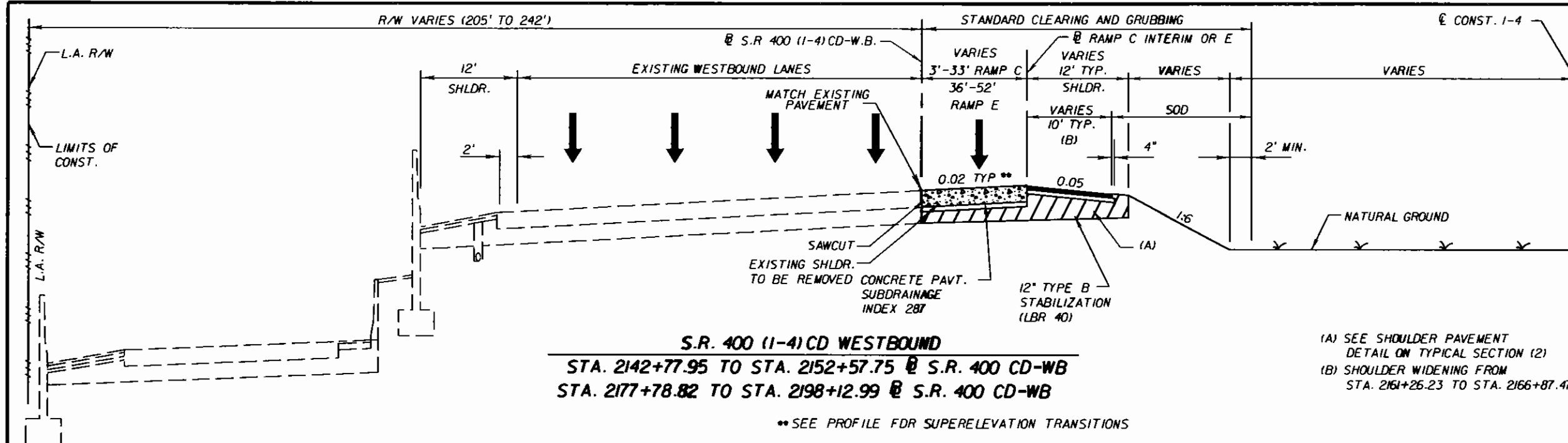
STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS (6)

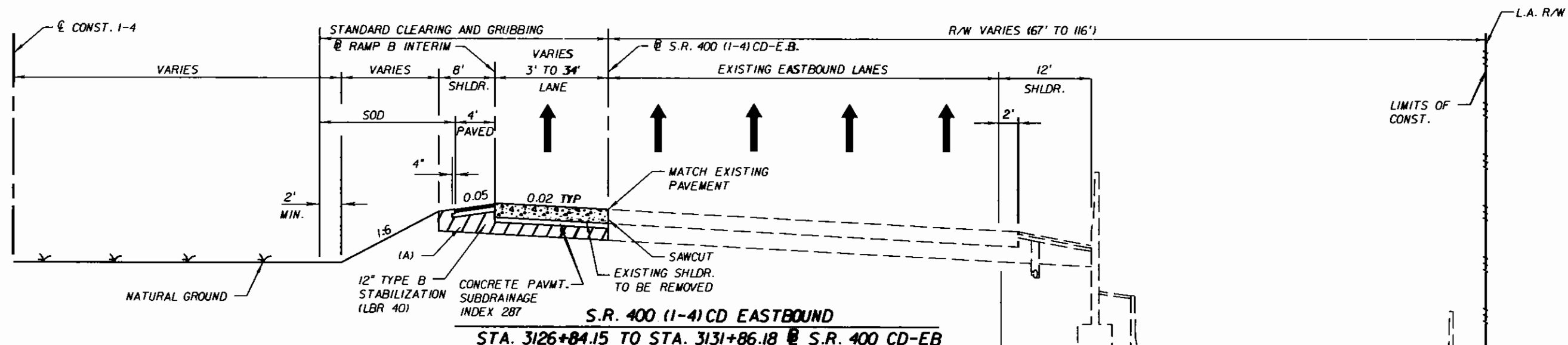


# Typicals on I-4 Near the Selmon Connector





(A) SEE SHOULDER PAVEMENT  
 DETAIL ON TYPICAL SECTION (2)  
 (B) SHOULDER WIDENING FROM  
 STA. 2161+26.23 TO STA. 2166+87.47



**TRAFFIC DATA (RAMPS B & C)**

CURRENT YEAR = N/A AADT = N/A  
 ESTIMATED OPENING YEAR = 2014 AADT = 12,000  
 ESTIMATED DESIGN YEAR = 2034 AADT = 22,000  
 K = 8.5% D = 100% T = 20% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 50 MPH  
 POSTED SPEED = 45 MPH

**NEW CONSTRUCTION**

PLAIN CEMENT CONCRETE PAVEMENT (12.5")  
 TREATED PERMEABLE BASE (ATPB OR CTPB) (4")  
 STRUCTURAL COURSE (TYPE SP) (TRAFFIC B) (2")

**SHOULDER PAVEMENT & SHOULDER WIDENING**

OPTIONAL BASE GROUP 9 AND  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1.5")

**TRAFFIC DATA (RAMPS E & F)**

CURRENT YEAR = N/A AADT = N/A  
 ESTIMATED OPENING YEAR = 2014 AADT = 21,300  
 ESTIMATED DESIGN YEAR = 2034 AADT = 33,400  
 K = 8.5% D = 100% T = 10% (24 HOUR)  
 DESIGN HOUR T = N/A  
 DESIGN SPEED = 35 MPH  
 POSTED SPEED = 35 MPH

**NEW CONSTRUCTION**

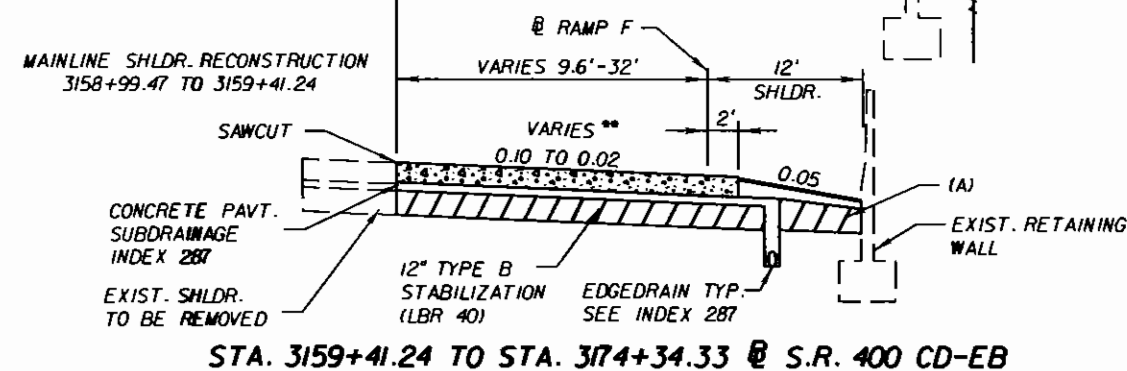
PLAIN CEMENT CONCRETE PAVEMENT (12.5")  
 TREATED PERMEABLE BASE (ATPB OR CTPB) (4")  
 STRUCTURAL COURSE (TYPE SP) (TRAFFIC B) (2")

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 9 AND  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1.5")

**S.R. 400 (1-4) CD EB & WB SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 7 AND  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4")



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



PB Americas, Inc.  
 5405 West Cypress St. Suite 300  
 Tampa, Florida 33607  
 (813) 289-5100  
 Cert. of Auth. No. 00652  
 EOR: Robert Szalay, P.E. No. 42770

AA4 (SEGMENTAL/BULB-T)		
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	HILLSBOROUGH	258415-2-52-01

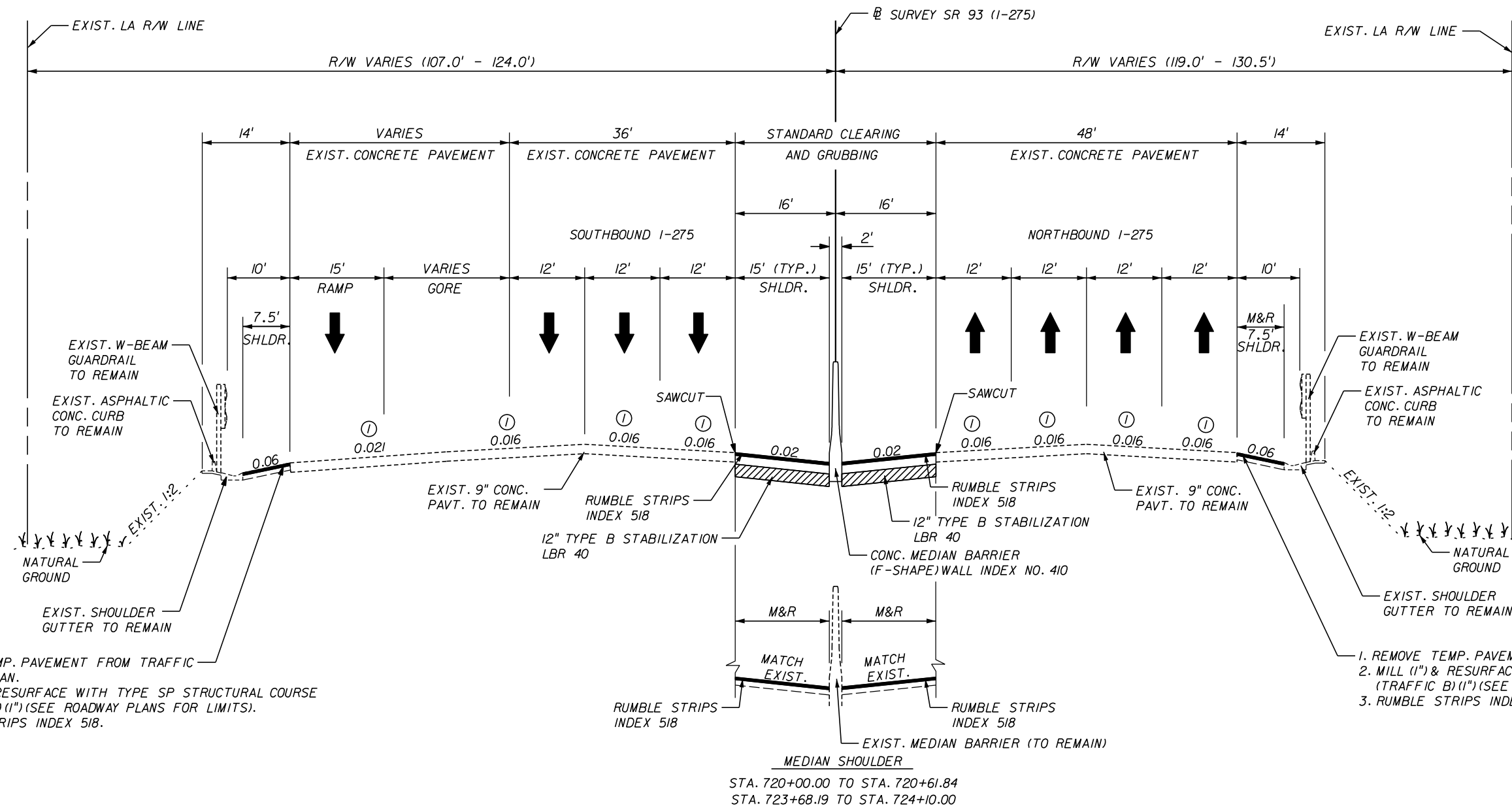
**TYPICAL SECTIONS (1)**

SHEET  
NO.  
5



Typicals on  
I-275 North  
of I-4





1. REMOVE TEMP. PAVEMENT FROM TRAFFIC CONTROL PLAN.
2. MILL (1\") & RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1\") (SEE ROADWAY PLANS FOR LIMITS).
3. RUMBLE STRIPS INDEX 518.

1. REMOVE TEMP. PAVEMENT FROM TRAFFIC CONTROL PLAN.
2. MILL (1\") & RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1\") (SEE ROADWAY PLANS FOR LIMITS).
3. RUMBLE STRIPS INDEX 518.

TYPICAL SECTION I  
SR 93 (I-275)

STA. 720+00.00 TO STA. 721+24.82 SB  
STA. 720+00.00 TO STA. 721+17.15 NB<sup>②</sup>  
STA. 723+08.85 TO STA. 724+10.00 SB<sup>②</sup>  
STA. 723+01.54 TO STA. 724+10.00 NB<sup>②</sup>

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6, WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3\")

MEDIAN SB AND NB SHOULDER PAVEMENT MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5\") AVERAGE DEPTH

MEDIAN SB & NB SHOULDER PAVEMENT RESURFACING

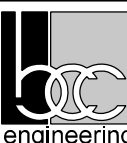
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1.5\")

TRAFFIC DATA

CURRENT YEAR = 2009 AADT = 165,800  
ESTIMATED OPENING YEAR = 2012 AADT = 170,800  
ESTIMATED DESIGN YEAR = 2032 AADT = 204,200  
K = 8.44 % D = 57.92 % T = 6.00% (24 HOUR)  
DESIGN HOUR T = 3.00 %  
DESIGN SPEED = 60 MPH

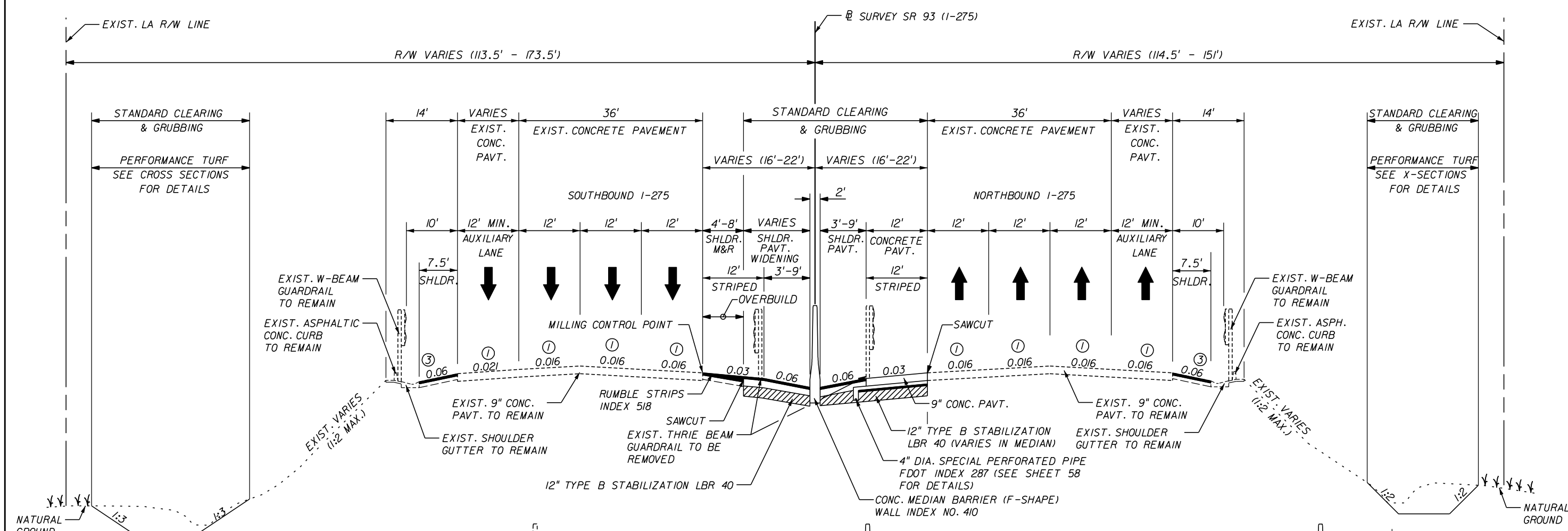
NOTES:

- ① CROSS SLOPES VARY APPROXIMATE VALUES SHOWN.
- ② OUTSIDE NB AND SB SHOULDERS CONSISTS OF PAVED SHOULDER WITH BARRIER MOUNTED WALL SEE CROSS SECTIONS.

REVISIONS					<p>Edward Colon P.E. License No. 56855 500 Winderley Place, Suite 324 Maitland, Florida 32751 Phone: (407) 951-6444 Fax: (407) 982-7520 Certificate of Authorization No. 7184</p>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO.  9
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 93	HILLSBOROUGH	258642-3-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.





NOTES:

- ① CROSS SLOPES VARY APPROXIMATE VALUES SHOWN.
- ② SEE "ROAD PLANS" FOR MEDIAN CROSS SLOPE TRANSITION LIMITS
- ③ a. REMOVE TEMP. PAVEMENT FROM TRAFFIC CONTROL PLAN.  
b. MILL (1") & RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1") (SEE ROADWAY PLANS FOR LIMITS).  
c. RUMBLE STRIPS INDEX 518.

TRAFFIC DATA

CURRENT YEAR = 2009 AADT = 165,800  
ESTIMATED OPENING YEAR = 2012 AADT = 170,800  
ESTIMATED DESIGN YEAR = 2032 AADT = 204,200  
K = 8.44 % D = 57.92 % T = 6.00% (24 HOUR)  
DESIGN HOUR T = 3.00 %  
DESIGN SPEED = 60 MPH

MEDIAN SB & NB SHOULDER PAVEMENT MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5") AVERAGE DEPTH

MEDIAN SB & NB SHOULDER PAVEMENT RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1.5")

TYPICAL SECTION 2  
SR 93 (I-275)

STA. 743+46.80 TO STA. 746+71.13  
STA. 748+50.17 TO STA. 758+00.00

RIGID PAVEMENT WIDENING

TYPE SP STRUCTURAL COURSE (TRAFFIC D)(2")  
ASPHALT TREATED PERMEABLE BASE (4") WITH  
AND 9" PLAIN CEMENT CONCRETE PAVEMENT

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6, WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")

MEDIAN SB SHOULDER PAVEMENT MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5") AVERAGE DEPTH

MEDIAN SB SHOULDER PAVEMENT OVERBUILD

TYPE SP OVERBUILD (TRAFFIC B) THICKNESS (2" AVERAGE)

MEDIAN SB SHOULDER PAVEMENT RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**engineering**

Edward Colon  
P.E. License No. 56855  
500 Winderley Place, Suite 324  
Maitland, Florida 32751  
Phone: (407) 951-6444  
Fax: (407) 982-7520  
Certificate of Authorization No. 7184

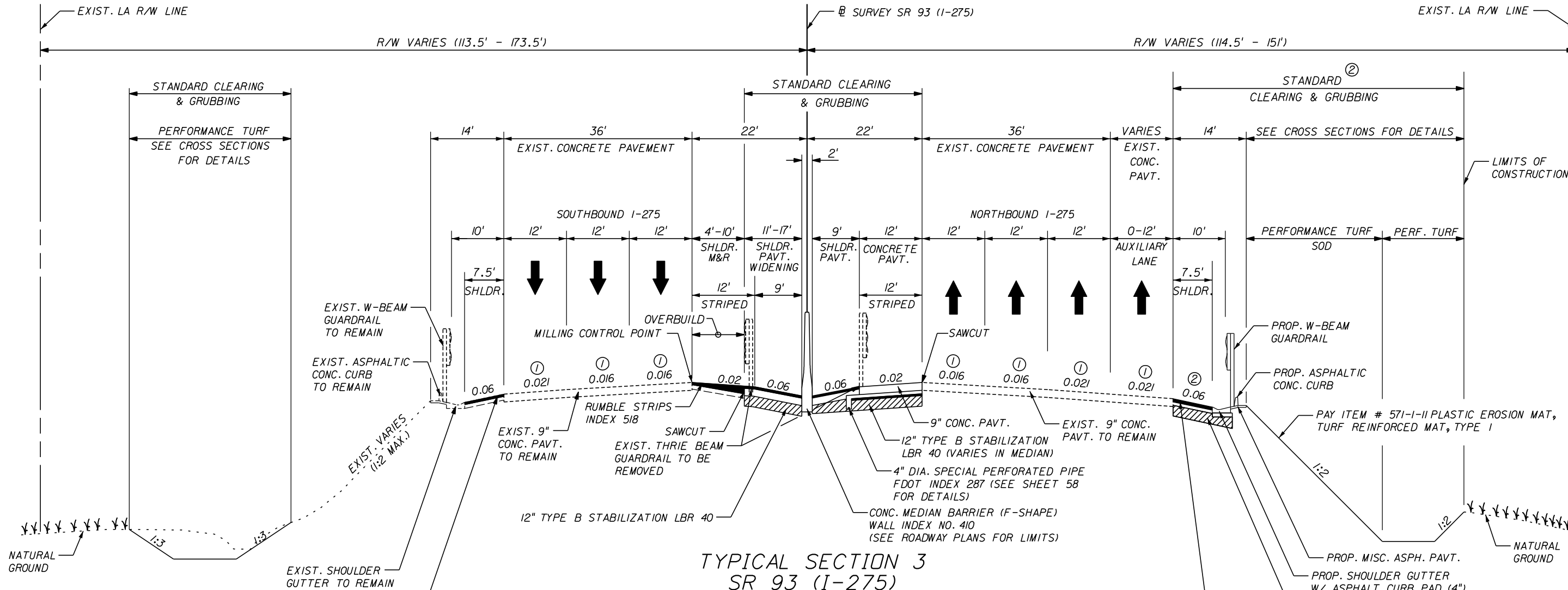
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	HILLSBOROUGH	258642-3-52-01

**TYPICAL SECTIONS**

SHEET NO.  
10

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TYPICAL SECTION 3  
SR 93 (I-275)

STA. 758+00.00 TO STA. 759+77.18  
STA. 761+87.18 TO STA. 768+94.60  
STA. 771+28.54 TO STA. 773+19.54 SB  
STA. 771+28.54 TO STA. 773+22.61 NB  
STA. 775+06.31 TO STA. 777+02.54 SB  
STA. 775+09.56 TO STA. 777+02.54 NB  
STA. 779+33.95 TO STA. 786+49.14  
STA. 788+29.14 TO STA. 794+48.77  
STA. 797+78.80 TO STA. 799+00.00

TRAFFIC DATA

CURRENT YEAR = 2009 AADT = 165,800  
ESTIMATED OPENING YEAR = 2012 AADT = 170,800  
ESTIMATED DESIGN YEAR = 2032 AADT = 204,200  
K = 8.44 % D = 57.92 % T = 6.00% (24 HOUR)  
DESIGN HOUR T = 3.00 %  
DESIGN SPEED = 60 MPH

RIGID PAVEMENT WIDENING

TYPE SP STRUCTURAL COURSE (TRAFFIC D)(2")  
ASPHALT TREATED PERMEABLE BASE (4") WITH  
AND 9" PLAIN CEMENT CONCRETE PAVEMENT

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6, WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")

NOTES:

- CROSS SLOPES VARY  
APPROXIMATE VALUES SHOWN
- NORTHBOUND OUTSIDE SHOULDER  
WIDENING ONLY AT CHELSEA ST
- SEE "ROAD PLANS" FOR MEDIAN CROSS SLOPE  
TRANSITION LIMITS

MEDIAN SB SHOULDER PAVEMENT MILLING

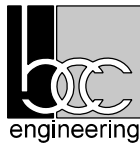
MILL EXISTING ASPHALT PAVEMENT (1.5") AVERAGE DEPTH

MEDIAN SB SHOULDER PAVEMENT OVERBUILD

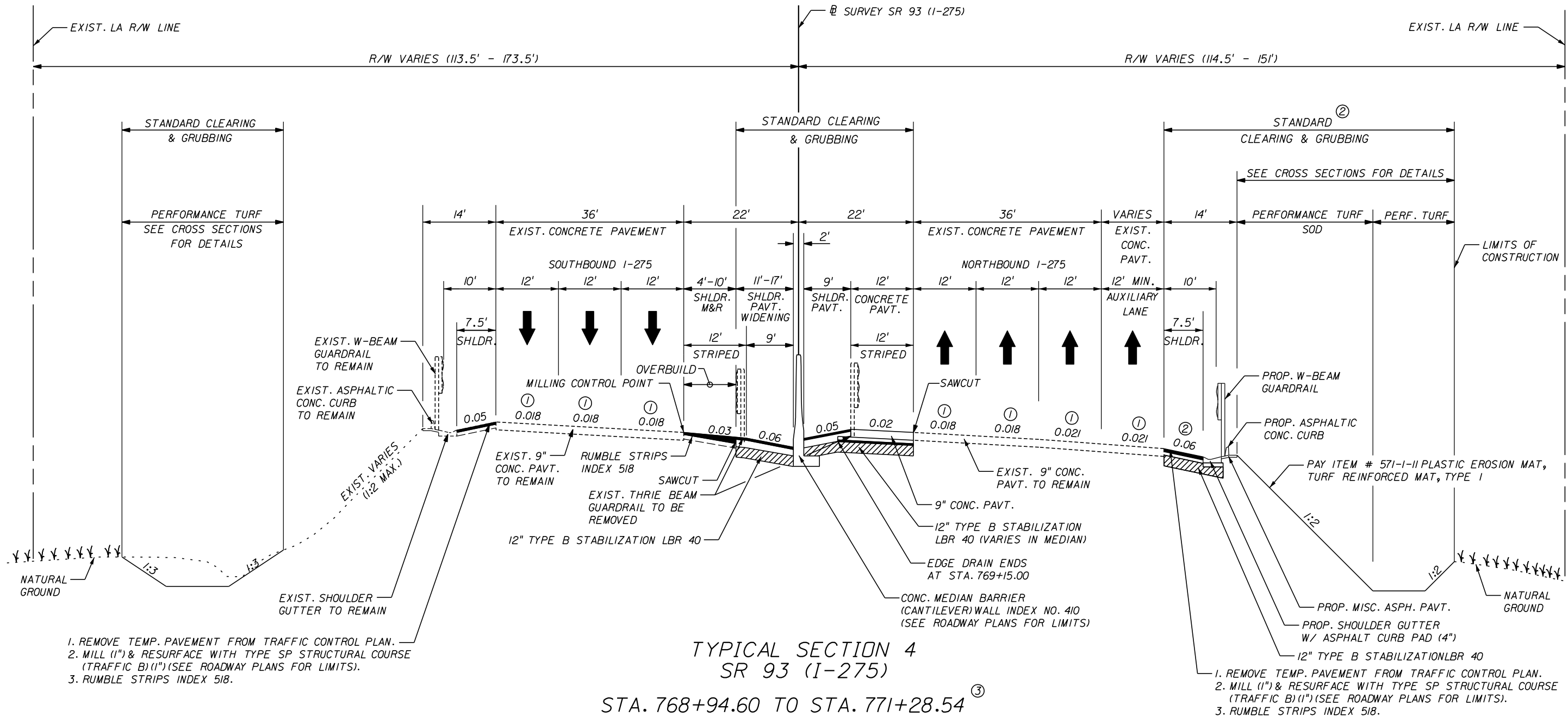
TYPE SP OVERBUILD (TRAFFIC B) THICKNESS (2" AVERAGE)

MEDIAN SB SHOULDER PAVEMENT RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")

REVISIONS					Edward Colon P.E. License No. 56855 500 Winderley Place, Suite 324 Maitland, Florida 32751 Phone: (407) 951-6444 Fax: (407) 982-7520 Certificate of Authorization No. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO.  11
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 93	HILLSBOROUGH	258642-3-52-01		





**TRAFFIC DATA**

CURRENT YEAR = 2009 AADT = 165,800  
ESTIMATED OPENING YEAR = 2012 AADT = 170,800  
ESTIMATED DESIGN YEAR = 2032 AADT = 204,200  
K = 8.44 % D = 57.92 % T = 6.00% (24 HOUR)  
DESIGN HOUR T = 3.00 %  
DESIGN SPEED = 60 MPH

**RIGID PAVEMENT WIDENING**

TYPE SP STRUCTURAL COURSE (TRAFFIC D) (2")  
ASPHALT TREATED PERMEABLE BASE (4") WITH  
AND 9" PLAIN CEMENT CONCRETE PAVEMENT

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 6, WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3")

**MEDIAN SB SHOULDER PAVEMENT MILLING**

MILL EXISTING ASPHALT PAVEMENT (1.5") AVERAGE DEPTH

**MEDIAN SB SHOULDER PAVEMENT OVERBUILD**

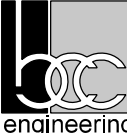
TYPE SP OVERBUILD (TRAFFIC B) THICKNESS (2" AVERAGE)

**MEDIAN SB SHOULDER PAVEMENT RESURFACING**

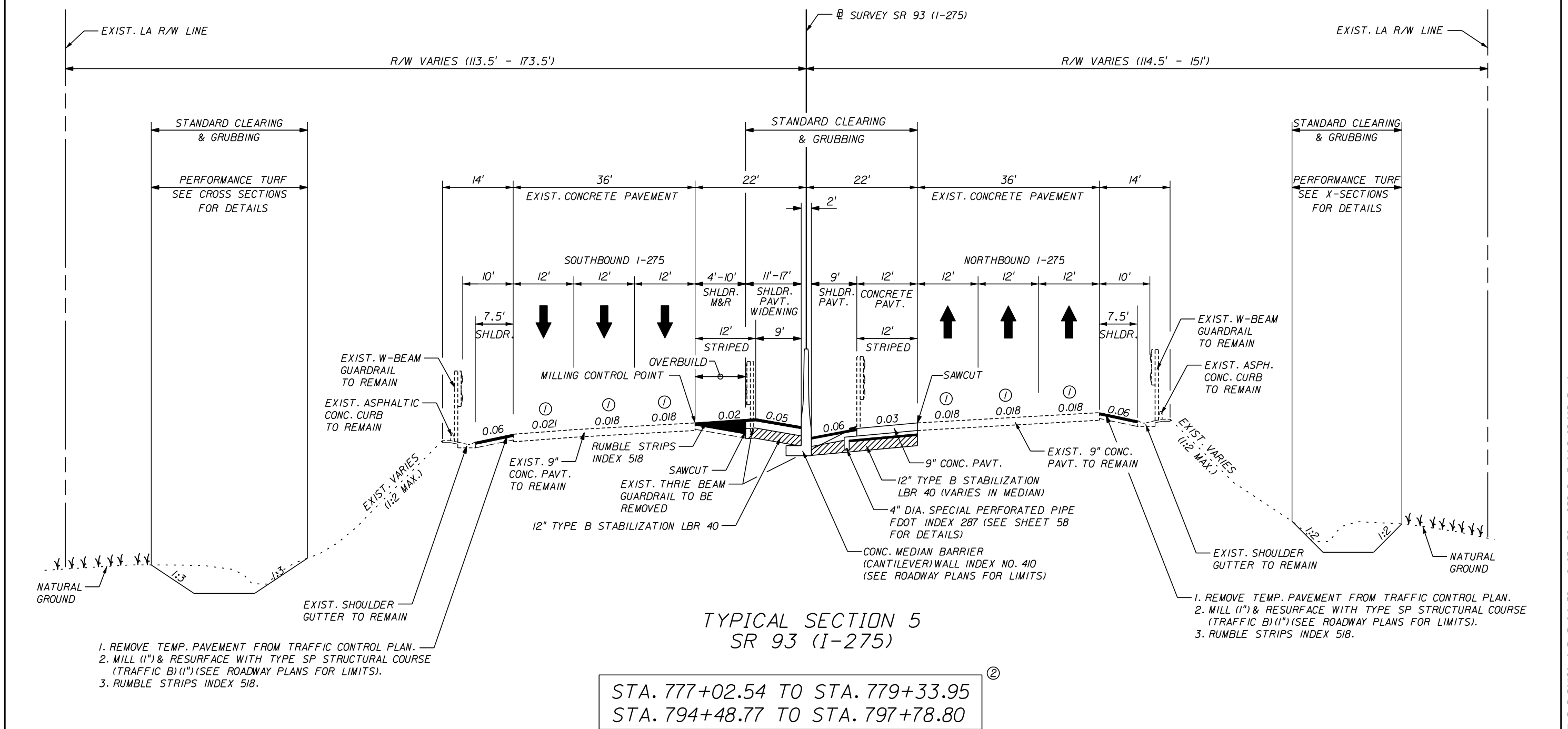
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (1")

**NOTES:**

- ① CROSS SLOPES VARY APPROXIMATE VALUES SHOWN  
② NORTHBOUND OUTSIDE SHOULDER WIDENING ONLY AT CHELSEA ST  
③ SEE "ROAD PLANS" FOR MEDIAN CROSS SLOPE TRANSITION LIMITS

REVISIONS					Edward Colon P.E. License No. 56855 500 Winderley Place, Suite 324 Maitland, Florida 32751 Phone: (407) 951-6444 Fax: (407) 982-7520 Certificate of Authorization No. 7184	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO.  12
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 93	HILLSBOROUGH	258642-3-52-01		





TYPICAL SECTION 5  
SR 93 (I-275)

STA. 777+02.54 TO STA. 779+33.95  
STA. 794+48.77 TO STA. 797+78.80

TRAFFIC DATA

CURRENT YEAR = 2009 AADT = 165,800  
ESTIMATED OPENING YEAR = 2012 AADT = 170,800  
ESTIMATED DESIGN YEAR = 2032 AADT = 204,200  
K = 8.44 % D = 57.92 % T = 6.00% (24 HOUR)  
DESIGN HOUR T = 3.00 %  
DESIGN SPEED = 60 MPH

RIGID PAVEMENT WIDENING

TYPE SP STRUCTURAL COURSE (TRAFFIC D)(2")  
ASPHALT TREATED PERMEABLE BASE (4") WITH  
AND 9" PLAIN CEMENT CONCRETE PAVEMENT

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6, WITH  
TYPE SP STRUCTURAL COURSE (TRAFFIC B)(3")

MEDIAN SB SHOULDER PAVEMENT MILLING

MILL EXISTING ASPHALT PAVEMENT (1.5") AVERAGE DEPTH

MEDIAN SB SHOULDER PAVEMENT OVERBUILD

TYPE SP OVERBUILD (TRAFFIC B) THICKNESS (4.5" AVERAGE)

MEDIAN SB SHOULDER PAVEMENT RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B)(1")

NOTES:

- ① CROSS SLOPES VARY APPROXIMATE VALUES SHOWN
- ② SEE "ROAD PLANS" FOR MEDIAN CROSS SLOPE TRANSITION LIMITS

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



**APPENDIX C**

**Correspondence Regarding  
Florida High Speed Rail**





*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

11201 N. McKinley Drive  
Tampa, FL 33612-6456

MIKE DEW  
SECRETARY

August 15, 2018

Transmitted via Email

Ms. Cathy Kendall, AICP  
Environmental Program Manager  
Federal Highway Administration  
Florida Division  
3500 Financial Plaza, Suite 400  
Tallahassee, Florida 32312

Re: FPN: 258337-2 Tampa Interstate Study Supplemental Environmental Impact Statement  
Coordination with the Federal Railroad Administration on the Florida High Speed Rail

Dear Ms. Kendall,

Thank you for your comments on the excerpt from the Tampa Interstate Study (TIS) Supplemental Environmental Impact Statement (SEIS) Sociocultural Effects (SCE) Technical Memorandum (email dated May 14, 2018). The purpose of this letter is to document the coordination between the Florida Department of Transportation (FDOT) District 7 and the Federal Railroad Administration (FRA) on the topic of the Florida High Speed Rail (FHSR) Record of Decision (ROD) from 2010. FDOT District 7 has reviewed the comments and expanded the SCE language as denoted in the following sections. The revised version of the SCE Technical Memorandum is attached.

**FHWA Comment 1:** Address whether the FHSR is a reasonably foreseeable project and clarify what we do know and what we do not about its likely timeframe of implementation.

*FDOT Response: FDOT does not consider the FHSR, as documented in the 2010 ROD, a reasonably foreseeable project. At this time, there is no schedule or funding programmed for the FHSR in FDOT's or FRA's work program for any future phase of project development. The Florida High Speed Rail Authority was decommissioned in 2009. Due to the time lapse and the changes that have occurred in the TIS study area since FRA issued the ROD in 2010, FRA would need to conduct an environmental re-evaluation or an SEIS to evaluate the potential modification to, or relocation of, the proposed FHSR service. The environmental analysis of the FHSR would need to evaluate the potential impacts to the TIS Preferred Alternative.*



*FDOT recently received an unsolicited bid by a private company for leasing FDOT right-of-way to build an intercity passenger rail line between Tampa and Orlando. The alignment and location for the proposed passenger rail service was not defined in the unsolicited bid. FDOT's Central Office has reviewed the proposal and issued an open competitive bid (June 2018) for leasing of right-of-way. The details of the unsolicited proposal will remain confidential through the bidding process. Bids are due in November 2018. The potential for either FHSR in some form or other intercity rail in the corridor is speculative at this time, especially given the lack of a substantial, dedicated FRA capital funding program and the history of the FHSR project.*

**FHWA Comment 2:** Incorporate graphical depictions, such as those shown in the FHWA/FDOT face-to-face meeting slides. This will facilitate transparency and support the descriptions provided in the "Excerpt from TIS SEIS Sociocultural Effects Technical Memorandum" provided to FHWA with FDOT's 4/17/18 letter on how the FHSR can be feasibly accommodated within the I-275/I-4 corridor for each of the Downtown Interchange Options being considered. It will be important to state that these are preliminary approaches for accommodating the FHSR as part of each alternative, but that FRA will ultimately evaluate design alternatives as part of their action (if any).

*FDOT Response: While FDOT does not consider the FHSR "reasonably foreseeable", FDOT is committed to coordinating with FRA on future re-evaluations, should they occur. This will be memorialized by adding a new commitment to the TIS SEIS document that states:*

*As FDOT advances the development of the interstate modernization in the Downtown Tampa area, FRA acknowledged and accepted in writing on February 2, 2018, that the preferred alternative may require modification to the future rail corridor as described in the FRA FEIS Record of Decision (ROD) 2010. FDOT is committed to coordinating with FRA on a future reevaluation of the FRA FEIS if the proposed improvements encroach onto the transit corridor.*

*FDOT will also acknowledge the potential for rail service, as described in the attached "Excerpt from the TIS SEIS Sociocultural Effects Technical Memorandum". Per FHWA's request, FDOT added figures that depict possible accommodations for potential FHSR service for each design option. Given their conceptual nature, they will be used for informational and discussion purposes only. In their letter dated February 2, 2018, FRA acknowledged that the preferred alternative for the TIS SEIS may require a modification to the planned FHSR corridor, which FRA would need to consider during a future reevaluation of the FHSR FEIS. Further, they recognized in the letter that the changes may result in additional right-of-way costs and impacts to realign the project along the I-275/I-4 right-of-way, as well as potential increases in construction cost to provide safety barriers and potentially elevate the transit system. FDOT will also add language indicating that FRA will be responsible for its own concepts, including analysis and reevaluation, on any future action.*



**FHWA Comment 3:** Include a description of the potential effects from possible shifts or changes to the FHSR in the cumulative effects analysis for topic areas such as ROW impacts and Section 4(f).

*FDOT Response: Since the FHSR as envisioned in the 2010 ROD is not considered a reasonably foreseeable action, FDOT will not include a discussion of the potential effects to the FHSR in the cumulative effects analysis. According to guidance provided by the Council on Environmental Quality, "The EIS must identify all the indirect effects that are known, and make a good faith effort to explain the effects that are not known but are "reasonably foreseeable." (40 CFR §1508.8(b))." "...reasonably foreseeable events, although still uncertain, must be probable. This means that those effects that are considered possible, but not probable, may be excluded from NEPA analysis." (FHWA "Questions and Answers Regarding the Consideration of Indirect and Cumulative Impacts in the NEPA Process")*

Based on these revisions, FDOT is confident that we should be able to move forward in the process. Please send me any additional comments by Friday, August 31, 2018, or we will assume you have no further concerns regarding this issue. We appreciate your time and attention.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kirk Bogen", with a long horizontal flourish extending to the right.

Kirk Bogen, P.E.  
FDOT District 7 Environmental Management Engineer

Cc: David Hawk, FHWA  
Karen Brunelle, FHWA  
David Gwynn, FDOT District 7  
Richard Moss, FDOT District 7  
Ed McKinney, FDOT District 7  
Ming Gao, FDOT District 7  
Allan Urbonas, FDOT District 7  
Marshall Hampton, FDOT District 7  
Jason Watts, FDOT OEM  
Jenna Bowman, FDOT OEM



## EXCERPT FROM TIS SEIS SOCIOCULTURAL EFFECTS (SCE) TECHNICAL MEMORANDUM

### **Mobility**

According to the FDOT PD&E Manual Part 2, Chapter 4, this section will identify potential project effects on mobility and accessibility in the study area with emphasis on non-driving population groups. The write-up will identify existing and planned transportation modes and services and examine the projects relationship to those modes and potential for effects. The Florida High Speed Rail will be one of numerous sub-sections in the Mobility section.

### **Florida High Speed Rail**

FDOT has been coordinating with the Federal Railroad Administration (FRA) regarding potential overlap between the Tampa Interstate Study (TIS) Supplemental Environmental Impact Statement (SEIS) and the 2010 Florida High Speed Rail (FHSR) Record of Decision (ROD). For reference, the following bullets summarize the timeline of activities regarding this coordination:

- 1996-FHWA approved the TIS FEIS (included ultimate Downtown Tampa Interchange)
- 1997 and 1999-FHWA issued the TIS FEIS RODs (did not include ultimate Downtown Tampa Interchange)
- 2003-FDOT completed I-275/I-4 Operational Improvements (interim condition)
- 2005-FRA approved the FHSR FEIS (shared TIS ROW in downtown Tampa)
- 2006-FDOT completed I-4 outer roadways from 14<sup>th</sup> Street to 50<sup>th</sup> Street
- 2008-FDOT purchased the former county jail site for a future multimodal center
- 2009-FRA completed FHSR FEIS Reevaluation
- 2010-FRA issued FHSR ROD and won a federal grant for \$1.25 billion
- 2011-State of Florida declined the federal grant for \$1.25 billion
- 2013-FDOT completed the I-4/Selmon Expressway Connector
- 2017-FHWA issued Notice of Intent to prepare TIS Supplemental EIS

Throughout the years, FDOT and FRA have worked together as their transportation plans have evolved, always with the intent of minimizing social and environmental impacts. This is especially applicable in the Downtown Tampa area, where the TIS and the FHSR corridors overlap. The 1996 TIS FEIS Long-Term Preferred Alternative included an HOV/Transitway in the median of the interstate, as well as accommodations for a park-and-ride/multimodal center in downtown Tampa and Westshore. At the time the FHSR corridor was under development, there was no funding to reconstruct the ultimate I-275/I-4 interchange, as identified in the 1996 TIS Long-Term Preferred Alternative. As a result, FRA and FDOT agreed that the FHSR corridor would parallel the south side of the interstate between the Tampa station and the crossing into the I-4 median within the ultimate TIS SEIS right-of-way (ROW), because it appeared that FHSR would be constructed first. FRA also coordinated with FDOT to accommodate various roadway design changes and appropriate commitments in the 2009 FHSR Reevaluation and 2010 ROD. Unfortunately, funding for the FHSR project was never received.



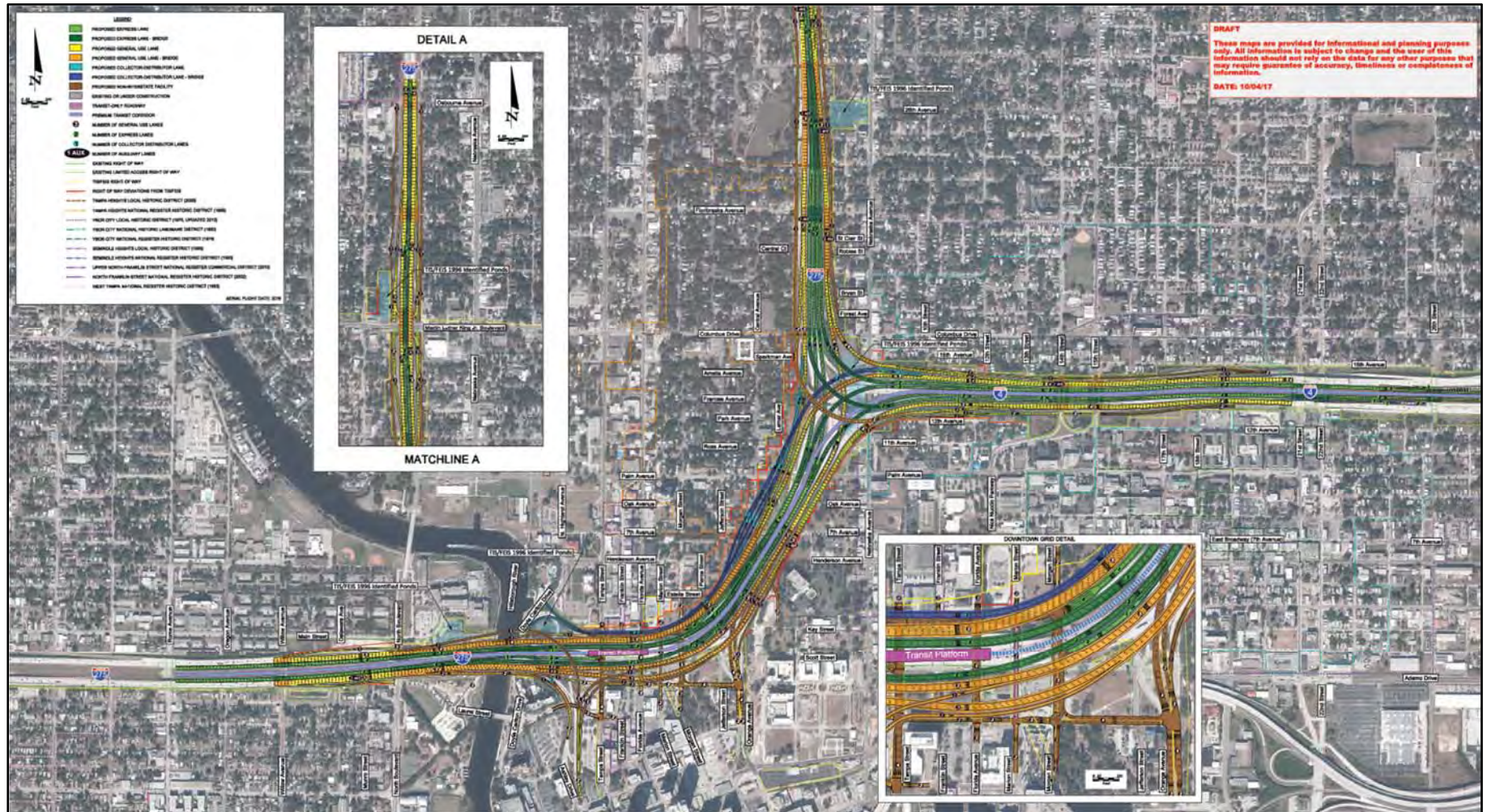
In 2017, FHWA issued the Notice of Intent (NOI) for the TIS SEIS. Through the TIS SEIS process, FDOT has developed several design options to minimize social and environmental impacts. FRA is a participating agency in the TIS SEIS and they have reviewed various documents through FDOT's Environmental Screening Tool, including the Alternatives Screening Technical Memorandum (November 2017). On December 13, 2017, FDOT, FHWA, and FRA participated in a teleconference to further coordinate on the TIS SEIS. During the call, FDOT demonstrated that transit could be accommodated within each of the various design options (Options A-D) with varying degrees of change to the FHSR FEIS. FRA acknowledged that each of these options would accommodate future transit within the I-275 and I-4 interchange and include space for a multimodal station in downtown Tampa. FDOT and FRA participated in a follow up teleconference on January 2, 2018 to make sure FRA had received all the materials requested from the previous teleconference and there were no additional questions.

In a letter dated February 2, 2018 (shown in the attachment), FRA acknowledged that the preferred alternative for the TIS SEIS may require a modification to the planned FHSR corridor, which FRA would need to consider during a future reevaluation of the FHSR FEIS. Further, they recognized in the letter that the changes may result in additional ROW costs and impacts to realign the project along the I-275/I-4 ROW, as well as potential increases in construction cost to provide safety barriers and potentially elevate the transit system. The following paragraphs describe the potential impacts of the design options on the FHSR alignment. The figures noted reflect a preliminary approach for accommodating the FHSR as part of each design option, which are for informational and discussion purposes only. FRA will be responsible for its own concepts, including analysis and reevaluation, on any future action.

In their letter, FRA discussed the anticipated impacts that the four design options for the Downtown Tampa Interchange may have on the FHSR corridor. Previously, the FHSR corridor traversed westbound to Tampa in the median of I-4 with a flyover near 19<sup>th</sup> Street that took the corridor along the south side of the interstate into a station near Marion Street in downtown Tampa. Instead, Option A and B (full reconstruction options) would accommodate the rail corridor along I-4 in the median all the way through the I-275/I-4 Interchange with a rail platform in the median of I-275 in downtown Tampa that would connect to an at-grade station (see Figures 1 and 2). Passengers would access the at-grade station via an overhead pedestrian walkway.

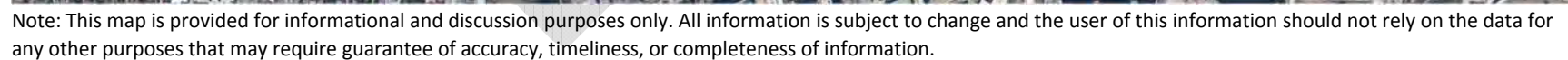


Figure 1: Downtown Interchange Design Option A



Note: This map is provided for informational and discussion purposes only. All information is subject to change and the user of this information should not rely on the data for any other purposes that may require guarantee of accuracy, timeliness, or completeness of information.







Option C (southern viaduct) would occupy the corridor previously planned for FHSR, which may require the FHSR project to incur additional ROW impacts, to increase construction cost with an elevated corridor, and/or to choose a different corridor along with a different multimodal station location in the downtown Tampa area (see Figure 3). Option D (northern viaduct) includes new ramps at 15<sup>th</sup> Street, which would occupy the corridor previously planned for FHSR and may require the FHSR project to incur additional ROW impacts (see Figure 4).

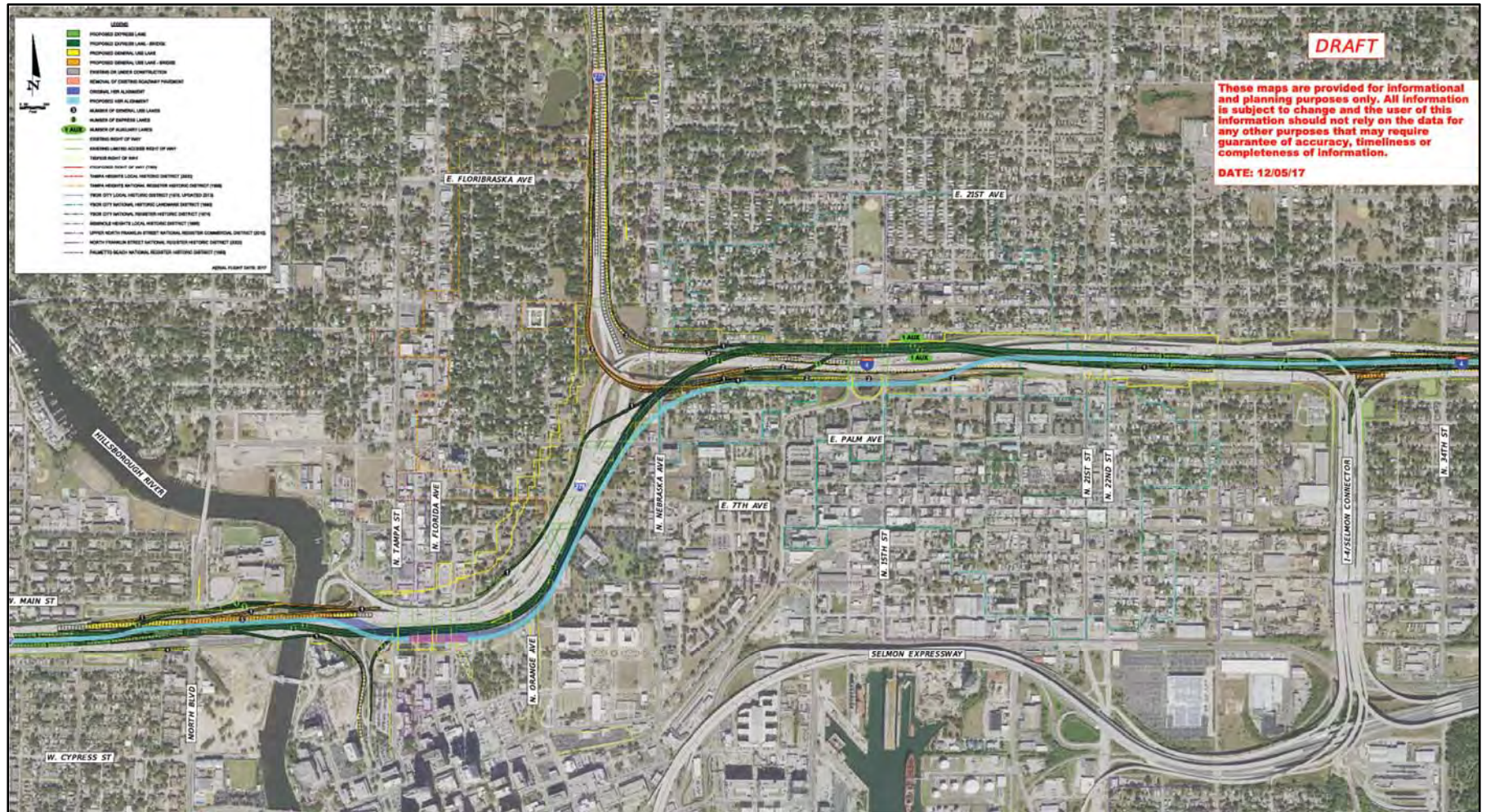
At this time, FRA has no schedule or funding programmed to advance the FHSR Project. FDOT is committed to working with FRA as their transportation plans continue to develop. This will be memorialized by adding a new commitment to the TIS SEIS document that states:

*As FDOT advances the development of the interstate modernization in the Downtown Tampa area, FRA acknowledged and accepted in writing on February 2, 2018, that the preferred alternative may require modification to the future rail corridor as described in the FRA FEIS Record of Decision (ROD) 2010. FDOT is committed to coordinating with FRA on a future reevaluation of the FRA FEIS if the proposed improvements encroach onto the transit corridor.*

FDOT will identify a preferred alternative for the TIS SEIS in early 2019. FDOT will continue to coordinate with FRA not only through the TIS SEIS review process in their role as a participating agency, but will organize a follow up teleconference in early 2019 to discuss the preferred alternative concepts as they affect the FHSR corridor. If FRA initiates a re-evaluation of the FHSR project in the future, FDOT will partner with FRA in the completion of that documentation.

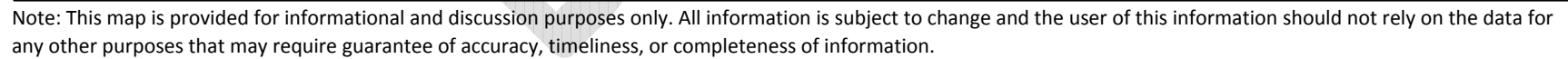


Figure 3: Downtown Interchange Design Option C



Note: This map is provided for informational and discussion purposes only. All information is subject to change and the user of this information should not rely on the data for any other purposes that may require guarantee of accuracy, timeliness, or completeness of information.







**APPENDIX D**  
**TIS FEIS**  
**Preliminary Alternatives**  
**Screening Evaluation**  
**Technical Memo**





*Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

11201 N. McKinley Drive  
Tampa, FL 33612

Mike Dew  
SECRETARY

November 13, 2017

Cathy Kendall  
Senior Environmental Specialist  
Federal Highway Administration  
Florida Division  
3500 Financial Plaza, Suite 400  
Tallahassee, FL 32312

**Re: Tampa Interstate Study (TIS) Supplemental Environmental Impact Statement (SEIS) Preliminary Screening Technical Memo**

Dear Cathy:

Attached you will find the TIS SEIS Preliminary Screening Technical Memo for your approval. FDOT will provide a copy of the report to the TIS SEIS Cooperating and Participating Agencies for a 30-day review and comment period. Once FDOT receives agency comments on the report and has responded to the comments, if any, we will provide FHWA with a revised final document. Once FHWA has received the final document, FDOT requests the concurrence from FHWA with the findings of the Preliminary Screening Technical Memo and the alternatives dropped from further consideration in the National Environmental Policy Act (NEPA) process, as indicated by signature below. All remaining alternatives will continue to be evaluated in the NEPA process.

If you have any comment, please feel free to contact me.

Sincerely,

Kirk Bogen, P.E.  
Environmental Management Engineer  
FDOT District Seven  
Planning & Environmental Management Office (PLEMO)  
[kirk.bogen@dot.state.fl.us](mailto:kirk.bogen@dot.state.fl.us)  
(813) 975-6448 / (800) 226-7220 x6448  
FAX: (813) 975-6451

FHWA concurs with the findings of the Preliminary Screening Technical Memo and the alternatives to be dropped from further consideration.

Cathy Kendall, Senior Environmental Specialist  
Federal Highway Administration, Florida Division

DATE





# **Preliminary Alternatives Screening Evaluation Technical Memo**

**Tampa Interstate Study  
Supplemental Environmental Impact Statement  
I-275 from Howard Frankland Bridge to  
North of Dr. Martin Luther King, Jr. Boulevard  
and  
I-4 from I-275 to East of 50th Street  
Work Program Section # 258337-2**

**November 2017**



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## Acronyms

AADT	Average Annual Daily Traffic
CBD	Central Business District
FDOT	Florida Department of Transportation
FEIS	Final Environmental Impact Statement
FHWA	Federal Highway Administration
HART	Hillsborough Area Regional Transit Authority
HFB	Howard Frankland Bridge
HOV	High Occupancy Vehicle
I	Interstate
LDCA	Location Design Concept Acceptance
L RTP	Long Range Transportation Plan
MLK	Martin Luther King
MPO	Metropolitan Planning Organization
PD&E	Project Development and Environment
PER	Preliminary Engineering Report
SEIS	Supplemental Environmental Impact Statement
SR	State Road
TBARTA	Tampa Bay Area Regional Transportation Authority
TIA	Tampa International Airport
TIS	Tampa Interstate Study
VMT	Vehicle Miles Traveled



## 1. INTRODUCTION

The Tampa Interstate Study (TIS) Supplemental Environmental Impact Statement (SEIS) Project Team completed a preliminary screening to narrow the range of alternatives that will be evaluated in the SEIS. This technical memo documents the methodology and results of the alternatives screening evaluation. The TIS SEIS Project Team will document the full alternatives analysis in a Preliminary Engineering Report (PER). The TIS SEIS Project Team presented the results publicly in October 2017 to the community working groups and in a public workshop. The TIS SEIS Project Team will document the second evaluation in the SEIS wherein the alternative(s) retained for further study will be evaluated in greater depth. The second evaluation will result in a Location and Design Concept Acceptance (LDCA).

## 2. PURPOSE AND NEED OVERVIEW

As stated in the 1996 TIS Final Environmental Impact Statement (FEIS), the purpose of the TIS proposed improvements was to upgrade the safety and efficiency of the existing I-275 and I-4 transportation corridors while improving access to the surrounding communities and the need is to meet existing and projected traffic demands, provide for multimodal opportunities in the corridor, and improve the efficiency of this important regional and local transportation link. The current SEIS Purpose and Need is consistent with the 1996 TIS FEIS Purpose and Need and expands upon the originally identified purpose and need to include congestion relief that improves accessibility, mobility, travel times, and system linkages and multimodal connections, while supporting regional economic development goals and enhancing quality of life for Tampa Bay residents and visitors.

The draft TIS SEIS Purpose and Need Report dated September 2017 has been shared with the public and resource agencies, and can be found on the project website at: <http://www.tampabayinterstatestudy.com/>. The TIS SEIS Purpose and Need report provides detailed information to support the project needs and culminates in summarizing the purpose and need for the project with seven goals that are intended to be used to evaluate alternatives. The TIS SEIS Project Team used these goals as stated below to evaluate the alternatives being considered to address the transportation needs in the TIS SEIS Project study area.

- **Meet regional goals and objectives and demonstrate consistency with long range plans:** The Florida Department of Transportation's (FDOT) *Strategic Intermodal System (SIS) Policy Plan*, the Hillsborough Metropolitan Planning Organization's (MPO) *Imagine2040: Hillsborough Long Range Transportation Plan (LRTP)*, and Tampa Bay Area Regional Transportation Authority's (TBARTA's) *2015 Regional Transportation Master Plan Update* identified improvements to I-4 and I-275 as critical to support projected population and employment growth.
- **Provide a vital link to the regional transportation network:** There exists a need to provide key connections to other recently improved, under construction, or planned highway improvements and to portions of Hillsborough County that are expected to continue to experience significant growth through the next 20 years. Without improvements to the primary interstate system, other freeways, expressway, and arterials as provided for in Hillsborough MPO's *Imagine 2040: LRTP* will fail to provide the necessary capacity to relieve congestion and system connectivity.
- **Provide a multimodal transportation corridor that complements the surrounding community from a transportation, economic, and social aspect:** Several multimodal transportation activities converge within the limits of the TIS SEIS Project study area. These transportation facilities include, or are planned to include, streetcar, express buses, local bus routes, park-and-ride lots, and rail transit. Sufficient capacity to accommodate existing and future transit demand is needed in the TIS SEIS Project study area.
- **Meet future travel demand generated by population and employment growth:** Population in Tampa Bay Region is projected to grow 48 percent by 2040, and employment is projected to increase by approximately



56 percent. This growth would result in a substantial increase in the traffic demand for the facility, with an increase in vehicle miles traveled (VMT) projected at 44 percent by 2040. The proposed improvements are needed to improve freeway capacity in the TIS SEIS Project study area to accommodate the increasing travel demand.

- **Improve regional and interstate travel and mobility through the TIS SEIS Project study area by reducing travel times and duration of congestion:** Freeway average annual daily traffic (AADT) volumes are projected to increase by 66 percent throughout the TIS SEIS Project study area by 2040. At the major chokepoints in the TIS SEIS Project study area, the Downtown and Westshore interchanges, AADT is expected to increase by 109 percent and 61 percent, respectively. Regional travel times to Downtown are projected to increase from an average of 52 minutes to 62 minutes in 2040, a 19 percent increase. Regional travel times to Westshore are projected to increase from an average of 51 minutes to 61 minutes in 2040, a 20 percent increase. The duration of congestion could last more than two to three hours per day within the entire study area. Improvements are needed to move traffic more efficiently and provide travelers with a faster and more predictable trip.
- **Provide a safer, more efficient transportation system for the increased traffic volumes in the existing transportation corridor:** Future travel demand resulting from projected population and employment growth will create further need for improving the transportation system. Congestion in the study corridors is demonstrated by poor levels of service of the existing freeways, with most the corridors failing. Congestion levels are expected to increase, further deteriorating the levels of service for the future projected travel demand. Study of historic safety data also indicates that the project study area Interstates experience crash rates that are well above the statewide average crash rate for similar facilities, demonstrating that there is a need to improve safety in the TIS SEIS Project study area.
- **Provide efficient and convenient access to economic activity centers in the TIS SEIS Project study area:** I-275, I-75, and I-4 provide a vital regional link between several counties including Pasco, Polk, Pinellas, Hillsborough, and Manatee within the Tampa Bay area. The TIS SEIS Project study area along I-275 and I-4 represents the spine of the transportation network for the City of Tampa and Hillsborough County and provides access to employment, residential neighborhoods, tourist and recreational destinations, and services. The location of the proposed improvements through the core downtown area of Tampa, Westshore Business District, and the surrounding key activity centers with areas of high concentration of employment and commercial developments demonstrates the need for accessibility and connectivity to key economic centers to keep and attract businesses and development and support the economic vitality of the region.
- **Allow for improved access to regional facilities and efficiently accommodate regional and interstate movement of people and goods:** I-275, I-75, and I-4 also provide important connections to Port Tampa Bay and the TPA. Port Tampa Bay is the largest port in the state of Florida handling more than 37 million tons of cargo in 2016. The efficient movement of people and goods throughout the Tampa Bay Region relies on the integration of freight and transportation infrastructure, equipment, personnel, and information systems. These components must work together to sustain the regional economy. Therefore, the movement of goods by improving access and travel times, as it relates to economic development, is an important factor in the need for improvements in the TIS SEIS Project study area.

In summary, the purpose of and need for the proposed action in the TIS SEIS is to relieve congestion for a rapidly growing region in a manner that improves various aspects of the transportation system as outlined in the preceding sections of this discussion. These improvements are needed to meet future travel demand that will occur with projected population and employment growth, provide access to economic activity centers, enhance existing and future travel safety, address local arterial traffic congestion, provide system linkages and multimodal connections, while improving regional and interstate travel and mobility.



### 3. METHODOLOGY

This section describes the methodology that the TIS SEIS Project Team used to evaluate the alternatives. The Tier 1 screening determined whether or not the proposed alternatives met the project's Purpose and Need. The Tier 2 analysis will evaluate the remaining viable alternatives in greater detail in terms of environmental impacts and costs. The Tier 2 analysis will include a review of all the design variations and refinements to the viable alternatives. This analysis will be documented in the PER and the SEIS.

#### 3.1 Purpose and Need Screening (Tier 1)

The preliminary screening analysis focused on whether the alternatives could address the Purpose and Need. To do this, the TIS SEIS Project Team developed screening criteria and measures based on the Purpose and Need and public input. Early public outreach revealed core community values that are embedded in the screening criteria. The public favored transit options and connectivity, which are included in "Accommodates Transit," "Reconnects Neighborhoods," and "Provides New Direct Access to Business Districts." In addition, the public identified street corridor design, public realm enhancements, and mitigation as high priorities. While the Purpose and Need does not highlight these priorities, these elements were covered under the original 1996 TIS Final Environmental Impact Statement (FEIS) and 1997 and 1999 Records of Decision (ROD) commitments and will be updated during the SEIS.

For each evaluation measure, the TIS SEIS Project Team assigned a "yes" if the alternative meets the criteria, or "no" if it does not. The following paragraphs provide a brief description of each of the screening measures and a definition of what yes or no means in context of that measure.

##### Improves System Capacity and Safety

- **Improves mainline capacity and safety:** Does the alternative add capacity and enhance safety?
  - **Yes:** Adds capacity; Modernizes interchanges; provides operational improvements; improves geometry; eliminates substandard design conditions; or minimizes weaves and conflict points.
  - **No:** No additional capacity provided; Does not modernize interchanges, provide operational improvements, improve geometry, eliminate substandard design conditions, or minimize weaving or conflict points.
- **Improves mobility along north-south routes:** Does the alternative improve north-south crossroads in terms of changes in access, connectivity, operation, or trip diversion? Routes considered include: Trask Street, Himes Avenue, Lois Avenue, Westshore Boulevard, Reo Street, Morgan Street, Orange Avenue, North Boulevard, Tampa Street, and Ashley Drive.
  - **Yes:** Mobility along north-south parallels is maintained or improved by enhancing existing connections, not closing any existing connections or opening new connections.
  - **No:** Mobility along north-south parallels is degraded or unimproved by not enhancing connections or closing current access points.
- **Improves mobility along east-west routes:** Does the alternative affect east-west crossroads in terms of changes in access, connectivity, operation, or trip diversion? Routes considered include: Lemon Street, Columbus Drive, Palm Avenue, Estelle Street, and Dr. MLK, Jr. Boulevard.
  - **Yes:** Mobility along east-west parallels is maintained or improved by enhancing existing connections, not closing any existing connections or opening new connections.
  - **No:** Mobility along east-west parallels is degraded or unimproved by not enhancing connections or closing current access points.

##### Accommodates Transit

- **Transit Envelope:** Does the alternative preserve an envelope to accommodate transit?



- **Yes:** Provides 44-foot transit envelope.
- **No:** Does not provide an envelope to accommodate transit.
- **Express Bus:** Does alternative provide enhance operational opportunities for express bus?
  - **Yes:** Provides opportunity for consistent, reliable bus travel times.
  - **No:** Does not provide opportunity for consistent, reliable bus travel times.
- **Accommodates Streetcar Crossing:** Does the alternative provide for proposed streetcar alignments crossing under/over the downtown interchange?
  - **Yes:** Crossing options are available and there are no height or width restrictions.
  - **No:** No crossing options available; ramp terminals affect surface street operations; or there are height and width restrictions.

#### **Improves Freight Mobility**

- **Port Tampa Bay:** Does the alternative provide improved access to Port Tampa Bay?
  - **Yes:** Adds capacity; modernizes interchanges; provides operational improvements; provides direct access to port; improves geometry; eliminates substandard design conditions; or minimizes weaves and conflict points.
  - **No:** No additional capacity provided; Does not modernize interchanges, provide operational improvements, improve geometry; eliminate substandard design conditions; or minimize weaving or conflict points. Degrades existing access.
- **Tampa International Airport (TIA):** Does the alternative provide improved access?
  - **Yes:** Adds capacity; modernizes interchanges; provides operational improvements; provides direct access to airport; improves geometry; eliminates substandard design conditions; or minimizes weaves and conflict points.
  - **No:** No additional capacity provided; Does not modernize interchanges, provide operational improvements; improve geometry; eliminate substandard design conditions; or minimize weaving or conflict points. Degrades existing access.

#### **Reconnects Neighborhoods**

- **Offers new connections:** Does the alternative provide connections that do not exist today?
  - **Yes:** Provides new connections across interstate; reestablishes “historic” connections that were previously bifurcated; or provides connections to community-oriented facilities.
  - **No:** Does not provide new connections.
- **Improves existing connections:** Does the alternative improve existing connections?
  - **Yes:** Provides more direct vehicle connections; closes gaps in sidewalks and bike lanes; or enhances bike and pedestrian connections.
  - **No:** Does not enhance existing connections.

#### **Provides New Direct Access to Business Districts**

- **Westshore:** Does the alternative provide new direct access to the business district?
  - **Yes:** Provides new direct interstate access to Westshore Business District.
  - **No:** Does not add new access to Westshore Business District.
- **Downtown:** Does the alternative provide new direct access to the business district?
  - **Yes:** Provides new direct interstate access.
  - **No:** Maintains existing interstate access.



#### **Maintains Existing Access Points**

- **Maintains existing access points:** Does the alternative maintain existing access points?
  - **Yes:** Maintains and enhances existing access points.
  - **No:** Does not maintain existing access or removes existing access, operationally degraded.

#### **Regional/Local Planning**

- **Compatible with Local and Regional Goals and Objectives:** Is the alternative compatible with local and regional transportation goals and objectives?
  - **Yes:** Compatible with local and regional transportation goals and objectives.
  - **No:** Is not compatible with local or regional transportation goals and objectives.

## **4. ALTERNATIVES EVALUATED**

This section provides a description of the alternatives that the TIS SEIS Project Team evaluated in the preliminary screening.

### **4.1 No Further Action Alternative**

Portions of the Short Term Selected Alternative from the 1996 TIS FEIS have been constructed, so the No-Action Alternative that was evaluated in previous studies is no longer applicable. Therefore, the TIS SEIS Project Team evaluated a new No Further Action Alternative. The No Further Action Alternative is defined as the existing transportation system, plus any improvement provided for in the previously approved 1997 and 1999 RODs. It provides a baseline against which the Build alternatives can be compared.

### **4.2 1996 TIS FEIS Long-Term Preferred Alternative (Non-tolled Express Lane)**

Proposed improvements on I-275 consist of a four-roadway system (local access freeway lanes and non-tolled express lanes in each direction of travel) throughout the study limits and the preservation of a high occupancy vehicle (HOV)/Transitway corridor within the interstate alignment. Proposed interchange improvements include:

- a fully directional interchange for the I-275 connection to the SR 60/ Veterans Expressway;
- modifications to the existing Westshore Boulevard, Lois Avenue, and Dale Mabry Highway interchanges;
- split interchange ramps remaining at Howard and Armenia Avenues;
- a new west bank Central Business District (CBD) interchange with ramps to and from the west on I-275 at North Boulevard;
- a fully directional interchange for the I-4/I-275 connection;
- removal of the existing ramps to and from the north at Floribaska Avenue; and
- a full interchange at Dr. MLK, Jr. Boulevard.

Other new non-interstate improvements include the Sherrill Street extension north from Memorial Highway (SR 60) and Kennedy Boulevard under I-275 to Cypress Street, and the new Lemon Street Connector to Westshore Boulevard from Occident Street.

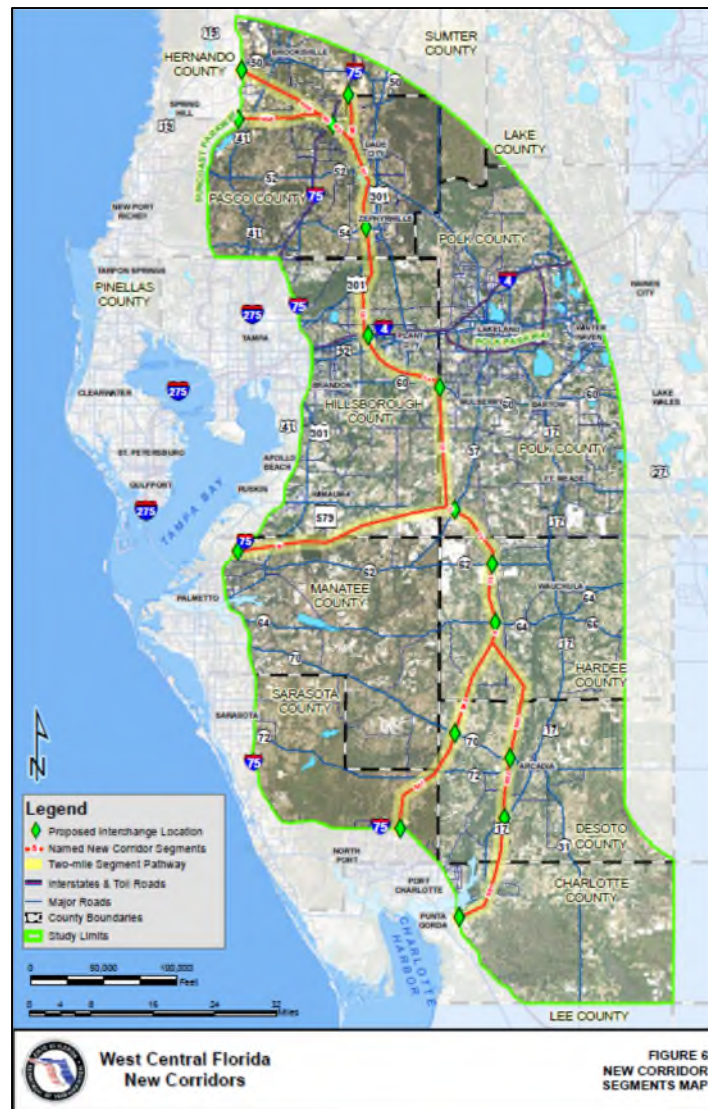
A new Ybor City/east side CBD split interchange is planned on I-4 at 14<sup>th</sup> and 15<sup>th</sup> Streets (with extension of the ramps at 14<sup>th</sup> and 15<sup>th</sup> Streets as parallel frontage roads to 21<sup>st</sup> and 22<sup>nd</sup> Streets to replace the existing access from I-4 to these streets). The concept includes the removal of the 19th Street overpass and the maintenance of the 26<sup>th</sup> Street overpass. Other interchange improvements include the reconfiguration of the split interchange at Columbus Drive and 50<sup>th</sup> Street, the removal of the interchange ramps at 40<sup>th</sup> Street, and a new directional freeway-to-freeway interchange with the proposed I-4/Selmon Connector on I-4 near 31<sup>st</sup> Street.



Numerous special features are proposed as part of the 1996 FEIS Long-Term Preferred Alternative. Park-n-ride lots are proposed for several locations along the interstate corridor in proximity to the priority HOV ramps to provide convenient access to the HOV lanes and encourage HOV ridership. In addition, a multi-modal terminal/parking garage is proposed for the downtown CBD.

### 4.3 Beltway Alternative

The Beltway Alternative was originally identified in the *West Central Florida New Corridor Study*, which FDOT conducted in 2009. In it, a new transportation corridor was proposed to serve West Central Florida, which includes ten counties: Charlotte, DeSoto, Hardee, Hernando, Hillsborough, Manatee, Pasco, Pinellas, Polk, and Sarasota. The proposed new transportation corridor would provide an alternative to I-75, and would serve to connect the Tampa Bay area to the southwest and southeast regions. No improvements would be made to I-275 or I-4 as part of the Beltway Alternative. See **Figure 4-1**.



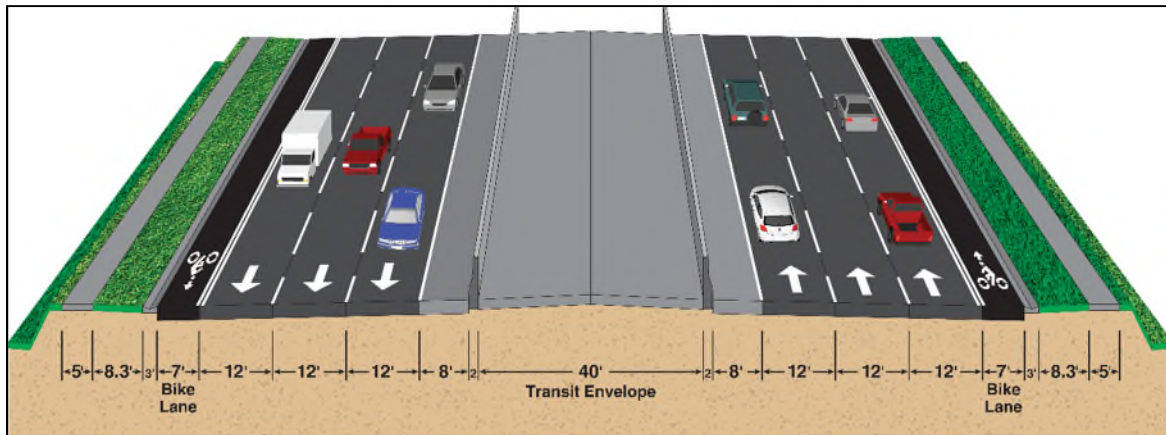
SOURCE: FDOT. 2009. *West Central Florida New Corridor Study*.

**Figure 4-1 Corridor Segment Map from 2009 FDOT Study**



## 4.4 Boulevard Alternative

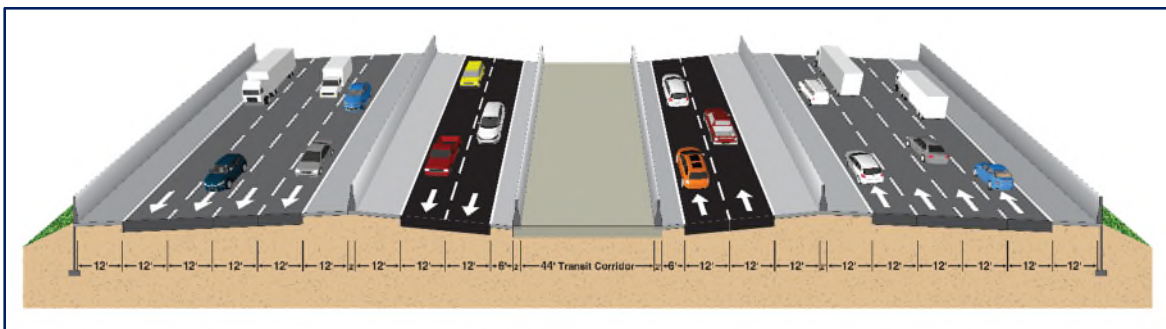
The Boulevard Alternative is a community idea that was originally suggested for application on I-275 north of the downtown Tampa interchange. However, to explore the option fully, FDOT applied the Boulevard Alternative within the TIS SEIS boundaries. The Boulevard Alternative would convert portions of the interstate to a 6/8-lane (3/4 lanes in each direction), at-grade boulevard. Main intersections would be signal controlled with pedestrian and bicycle crossings. Where right-of-way allows, frontage roads could be provided to aid in access management. A transit envelope is incorporated into the Boulevard Alternative. This envelope can either be in the median or on the outside of the roadway section. See **Figure 4-2**.



**Figure 4-2 Boulevard with Median Transit Envelope**

## 4.5 Tolled Express Lane Alternative

The Tolled Express Lane Alternative is generally the same as the major components of the 1996 TIS FEIS Long-Term Preferred Alternative from the 1996 TIS FEIS. There are areas where the design has changed in alignment and configuration to meet current design guidelines; however, the primary difference between the 1996 TIS FEIS Long-Term Preferred Alternative and the Tolled Express Lanes Alternative is the consideration of tolling the express lanes and revised access to and from the Express Lanes from the Interstates. See **Figure 4-3**.



**Figure 4-3 Tolled Express Lanes with Transit Envelope**

# 5. SCREENING EVALUATION RESULTS

## 5.1 Purpose and Need Screening (Tier 1) Results

Preliminary information indicates that the 1996 TIS FEIS Long-Term Preferred Alternative and the Tolled Express Lane Alternative meet the Purpose and Need Screening Criteria, and they will therefore be carried further for



more detailed analysis in the SEIS, along with design options for these alternatives. While preliminary information indicates that the No Further Action Alternative does not meet the Purpose and Need Screening Criteria, it serves as an important baseline for comparison purposes and will also be carried forward into the SEIS for evaluation.

Two alternatives would not meet the TIS SEIS Purpose and Need, the Beltway Alternative and the Boulevard Alternative, and is recommended to be dropped from further consideration. The TIS SEIS Project Team recommends the 1996 FEIS Long-Term Preferred Alternative (non-tolled) and the Tolled Express Lane Alternative be retained for further study in the SEIS along with the No Further Action Alternative. A summary of the reasons the two alternatives will no longer be considered is provided below. The ratings for each alternative are shown in **Table 5-1**.

**Table 5-1: Purpose and Need Screening Results**

Screening Criteria	Measure	Alternative				
		No Further Action	1996 TIS FEIS Long-Term	Beltway	Boulevard	Tolled Express Lanes
Improves System Capacity	Improves Mainline	N	Y	N	N	Y
	improves north-south routes	N	Y	N	N	Y
	Improves east-west routes	N	Y	N	N	Y
Accommodates Transit	Provides Premium Transit Envelope	N	Y	N	Y	Y
	Accommodates Express Bus	N	Y	N	N	Y
	Accommodates Streetcar Crossing	N	Y	N	Y	Y
Improves Freight Mobility	Port Tampa Bay	N	Y	N	N	Y
	Tampa International Airport	Y	Y	N	N	Y
Reconnects Neighborhoods	Offers new connections	Y	Y	N	Y	Y
	Improves existing connections	N	Y	N	Y	Y
Provides New Direct Access to Business Districts	Westshore	N	Y	N	N	Y
	Downtown	N	Y	N	N	Y
Maintains Existing Access Points shown in TIS FEIS		Y	Y	Y	Y	Y
Regional/Local Planning	Compatible with Local and Regional Goals and Objectives	N	Y	N	N	Y

## 5.2 Beltway Alternative: Recommended to be Removed from Further Study from the TIS SEIS

The Beltway Alternative would not meet the TIS SEIS Purpose and Need because it bypasses the TIS SEIS Study area and Tampa's central business districts and would not add travel capacity nor improve travel times in the TIS SEIS study area as no operational improvements are proposed on I-275 or I-4. Earlier studies conducted by FDOT (FDOT, West Central Florida New Corridor Study, 2009) showed there would be minimal traffic diversion



from the TIS SEIS study area to the beltway, which would not help to alleviate traffic congestion. Those studies indicated a slight increase of volume (2,500 to 5,000 daily trips) near the Floribaska Avenue interchange.

The Beltway Alternative would not help to improve transit service within the TIS SEIS study area. While the transit envelope exists in some portions of I-275 and I-4, it does not exist within the interchange areas. The Beltway Alternative does not propose improvements in these areas thus limits the ability to provide a consistent transit envelope throughout the study limits. Similar, without operational improvements, this alternative does not provide for reliable travel times which would be advantageous for express bus service.

The Beltway Alternative would not improve freight access because it provides no operational improvements or improved connections to the Port of Tampa and TIA and, in fact, bypasses these locations. Further, it would not reconnect or provide new connections for neighborhoods, and could potentially bisect other neighborhoods along its proposed alignments. Prior studies of the beltway alternative indicate significant public controversy. Finally, this alternative is not compatible with the current land use and transportation plans, and would require multi-jurisdictional coordination. In addition, as stated in Section 4.1 Planning Consistency of the TIS SEIS Purpose and Need Report, "Improving travel conditions in the TIS SEIS Project study area and at the interchange are critical to the successful completion of other Regional Priority Projects identified in the 2015 Regional Transportation Master Plan, including the Howard Frankland Bridge, express bus in express lanes, and the Westshore Multimodal Center with a people mover connection to the TIA. The beltway alternatives would not improve travel conditions in the TIS SEIS study area (including interchanges) sufficiently to support these Regional Priority Project planning initiatives.

### **5.3 Boulevard Alternative: Recommended to be Removed from Further Study from the SEIS**

The Boulevard Alternative does not meet the TIS SEIS project's Purpose and Need. It would not improve system capacity along the mainline in the TIS SEIS study area or the parallel routes. The Boulevard Alternative would create degradation to system capacity along mainline and support network for the following reasons:

- The intersections would need to be large enough to accommodate high volumes, all turning movements, and queue storage.
- At-grade intersections would affect travel speeds and travel time.
- Complex signal phasing would be needed for transit through intersections.
- There would be additional safety concerns for pedestrian and bicycle crossings due to the size of the intersections.
- Local streets and parallel routes would need to accommodate trip diversion, thereby increasing congestion on those streets and routes.
- The alternative would require the demolition of sections of the interstate recently constructed.

The Boulevard Alternative does propose a median transit envelope. However, as noted above, at-grade transit (e.g. rail or bus rapid transit) operations balances both the transit and roadway operations. Transit headways and operating speeds will be dictated by signalized intersection spacing. The intersection signal will account for the train crossing which affects signal phasing and queue storage.

Express bus service could also be provided in the Boulevard Alternative but the operations would not be based on consistent, reliable travel times. Rather, this service would most likely be a limited stop service as opposed to a higher quality service on an exclusive guideway.

The Boulevard Alternative would not help to improve freight access as travel times could be degraded to both the Port of Tampa and TIA as well as localized distribution of products (i.e. grocery stores, hardware stores,



etc.). This is because trucks would either have to stop at multiple traffic signals along the boulevard or use parallel routes.

I-275 and I-4 are major regional connections between the activity centers in Hillsborough, Pinellas, and Polk Counties, specifically the Westshore Business District and Downtown Tampa. Reduced traffic operations would greatly affect all regional travel between the counties affecting home to work and tourist activities, such as beach access. The Boulevard Alternative would not improve emergency evacuation.

Finally, the Boulevard Alternative is not compatible with current land use and transportation plans. Extensive coordination with the local agencies, including the City of Tampa, Hillsborough County, the Hillsborough County MPO, and the Planning Commission would be required. In addition, as stated in Section 4.1 Planning Consistency of the TIS SEIS Purpose and Need Report, "Improving travel conditions in the TIS SEIS Project study area and at the interchange are critical to the successful completion of other Regional Priority Projects identified in the 2015 Regional Transportation Master Plan, including the Howard Frankland Bridge, express bus in express lanes, and the Westshore Multimodal Center with a people mover connection to the TIA. The boulevard alternative would not improve travel conditions in the TIS SEIS project study area (including interchanges) sufficiently to support these Regional Priority Project planning initiatives.

The I-275 Project Development and Environment (PD&E) study north of the TIS SEIS study area is underway and includes multiple alternatives such as a boulevard, elevated section, reversible lanes, among others. North of the downtown interchange along I-275, the SEIS team will still consider how to effectively tie into the various options proposed by that study without letting one study or the other predetermine a solution for either.

## **5.4 Comments Received from the Public Involvement Process**

The TIS SEIS Project Team provided many different opportunities for the public to become engaged with the study and to provide input on the alternatives being evaluated. FDOT hosted two public workshops on October 9 and 10, 2017 in Tampa. Over 230 attendees participated and submitted nearly 70 comments. Those that commented on the study during the October 2017 comment period agree overwhelmingly that something needs to be done to address the traffic congestion problems in the TIS SEIS study area. Many favored the express lane alternatives, both tolled and non-tolled. Several commenters were opposed to the Boulevard Alternative; they felt that it would not address congestion issues in the study area. Rather, they thought that the Boulevard Alternative would worsen existing conditions. There were a few comments on the Beltway Alternative. While the commenters thought that the Beltway Alternative was a good idea, it would not address congestion issues because it is outside of the TIS SEIS study area. Overall, while some commenters disagreed with the recommendations, there were no major controversies noted. Other comments related to the following:

- Accommodating transit
- Improving local road connections
- Addressing potential increases in noise
- Providing for aesthetically-pleasing noise barriers
- Minimizing property acquisitions and preserving neighborhoods
- Addressing safety concerns
- Improving access to businesses and neighborhoods
- Promoting walkability and providing safe bikeways

One commenter suggested additional screening criteria to evaluate the alternatives, including providing safe bikeways and promoting walkability; providing new direct access to East Tampa and small businesses in the University of South Florida area; and improving stormwater use in neighborhoods.



To date, none of the MPO plans have included a beltway or boulevard concept; however, these plans are currently being updated and the Hillsborough, Pinellas, and Pasco MPOs are planning to coordinate on a regional LRTP. During the process, the MPOs will look at various scenarios, including a boulevard and a beltway, to determine if those concepts are feasible, what impacts they have on the region, and if there is public support. In addition, FDOT is working with the Hillsborough Area Regional Transit Authority (HART) and the City of Tampa on various transit initiatives. These will also be considered as a part of the regional LRTP.

There were numerous commitments presented in the original 1996 TIS FEIS and FDOT has continued to fulfill these commitments throughout the past 30 years. The SEIS will document these commitments and any additional commitments that are identified as a part of the SEIS public outreach and agency coordination process.



**APPENDIX E**  
**Downtown**  
**Interchange**  
**Concept Options**  
**Access Details**





## DOWNTOWN INTERCHANGE

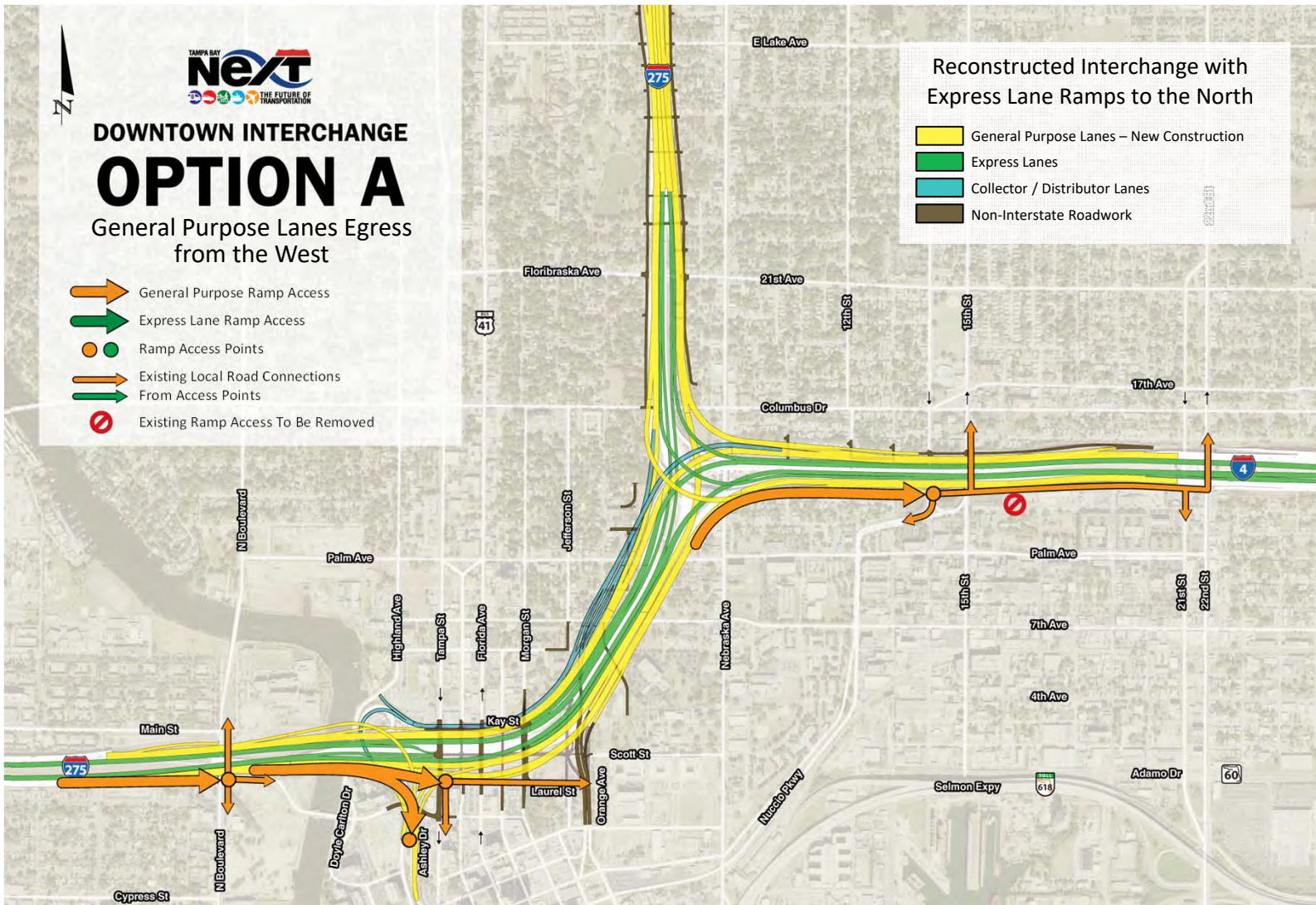
# OPTION A

General Purpose Lanes Egress from the West

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Reconstructed Interchange with Express Lane Ramps to the North

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- N. Blvd. Access. A new exit ramp to N. Blvd. has been added. Exiting traffic can head north or south on N. Blvd. or continue across N. Blvd. east on Laurel Street into downtown.
- Downtown Access. Access to downtown has been maintained in a similar manner. The exit ramp splits into separate ramp movements with the right fork to Ashley Dr. providing access to downtown west and the left fork heading into the one-way pair eastbound to Orange Avenue for access to downtown east.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21<sup>st</sup> St./22<sup>nd</sup> St. has been replaced with a new exit ramp located off NB I-275 just south of I-4. The new ramp will exit to 14<sup>th</sup> St./15<sup>th</sup> St. Exiting traffic can access Ybor City via 14<sup>th</sup> St./15<sup>th</sup> St. or proceed east on the two-lane frontage road to 21<sup>st</sup> St./22<sup>nd</sup> St.














## DOWNTOWN INTERCHANGE

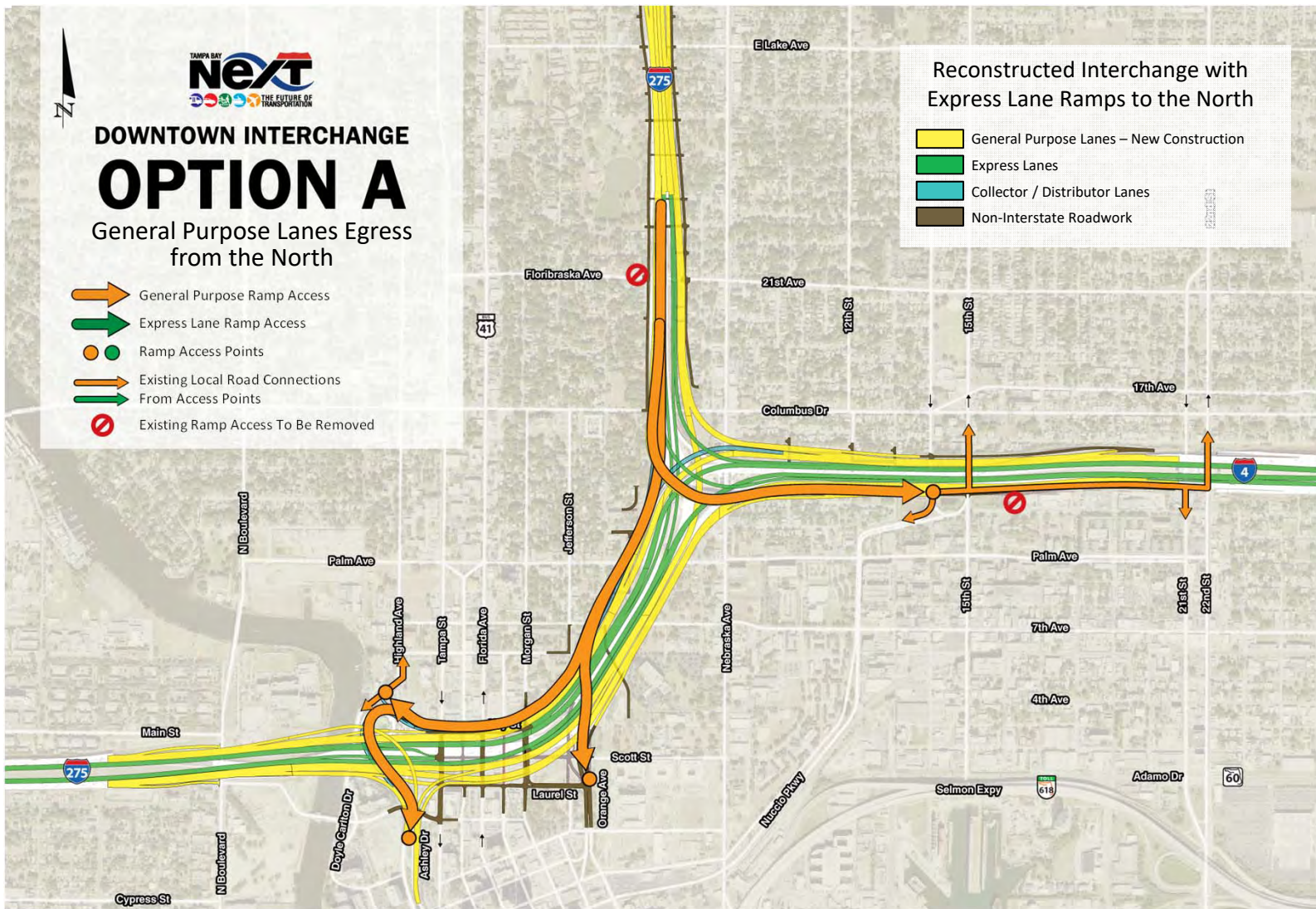
# OPTION A

General Purpose Lanes Egress from the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Floribanks Ave. Access. Access to Floribanks Ave. has been removed.
- Downtown Access. Access to downtown has been maintained in a similar manner. The ramp provides access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr. similar to the existing condition.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off the new two-lane flyover ramp from SB I-275. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.














## DOWNTOWN INTERCHANGE

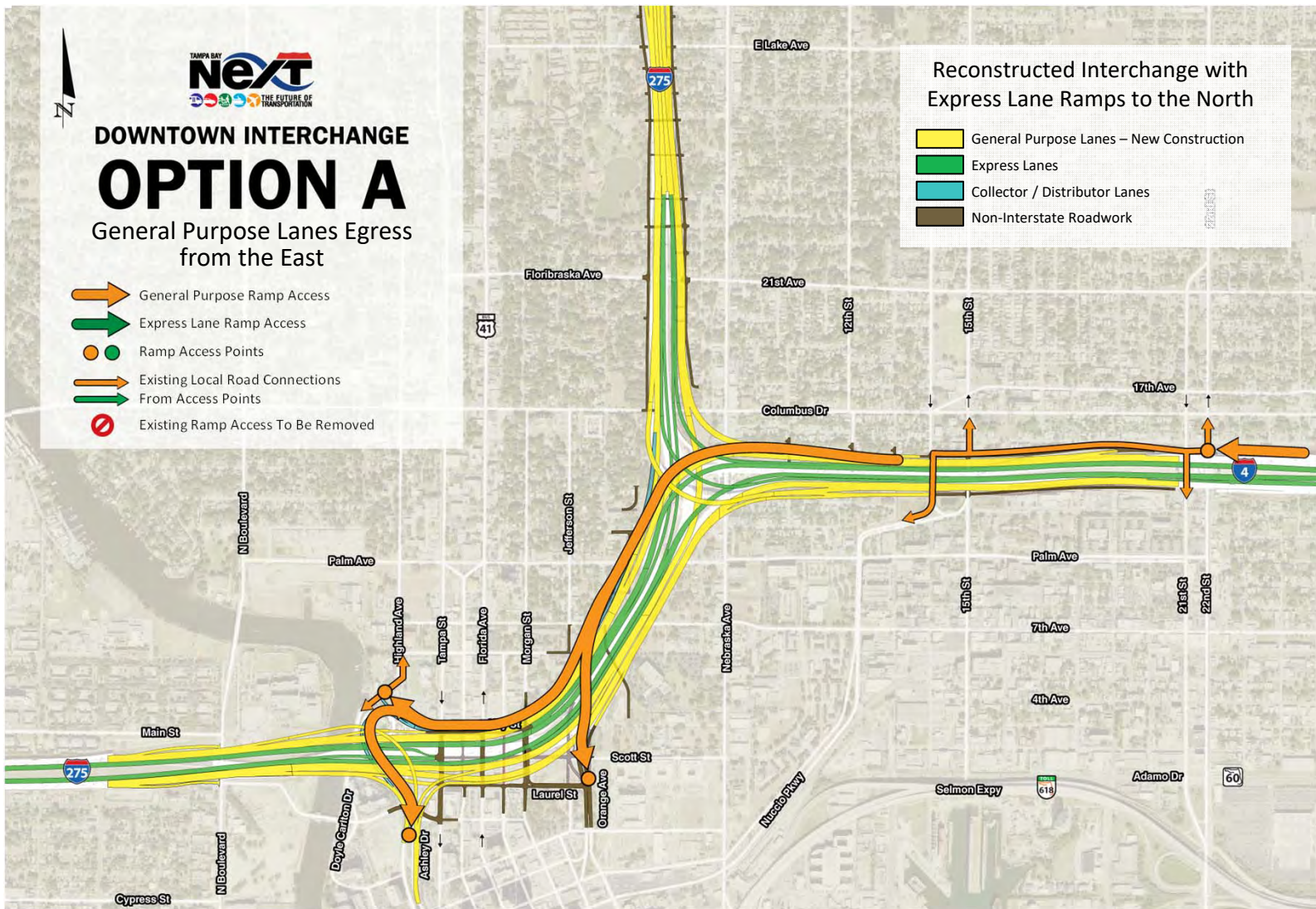
# OPTION A

General Purpose Lanes Egress from the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Ybor City Access. Access to Ybor City has been maintained in a similar manner. The existing exit ramp to Ybor City from I-4 at 21st St./22nd St. remains as-is. It provides access to 21st St./22nd St. and to 14th St./15th St. via the frontage road along the north side of I-275.
- Downtown Access. Access to downtown has been maintained in a similar manner. The ramp provides access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr. similar to the existing condition.














## DOWNTOWN INTERCHANGE

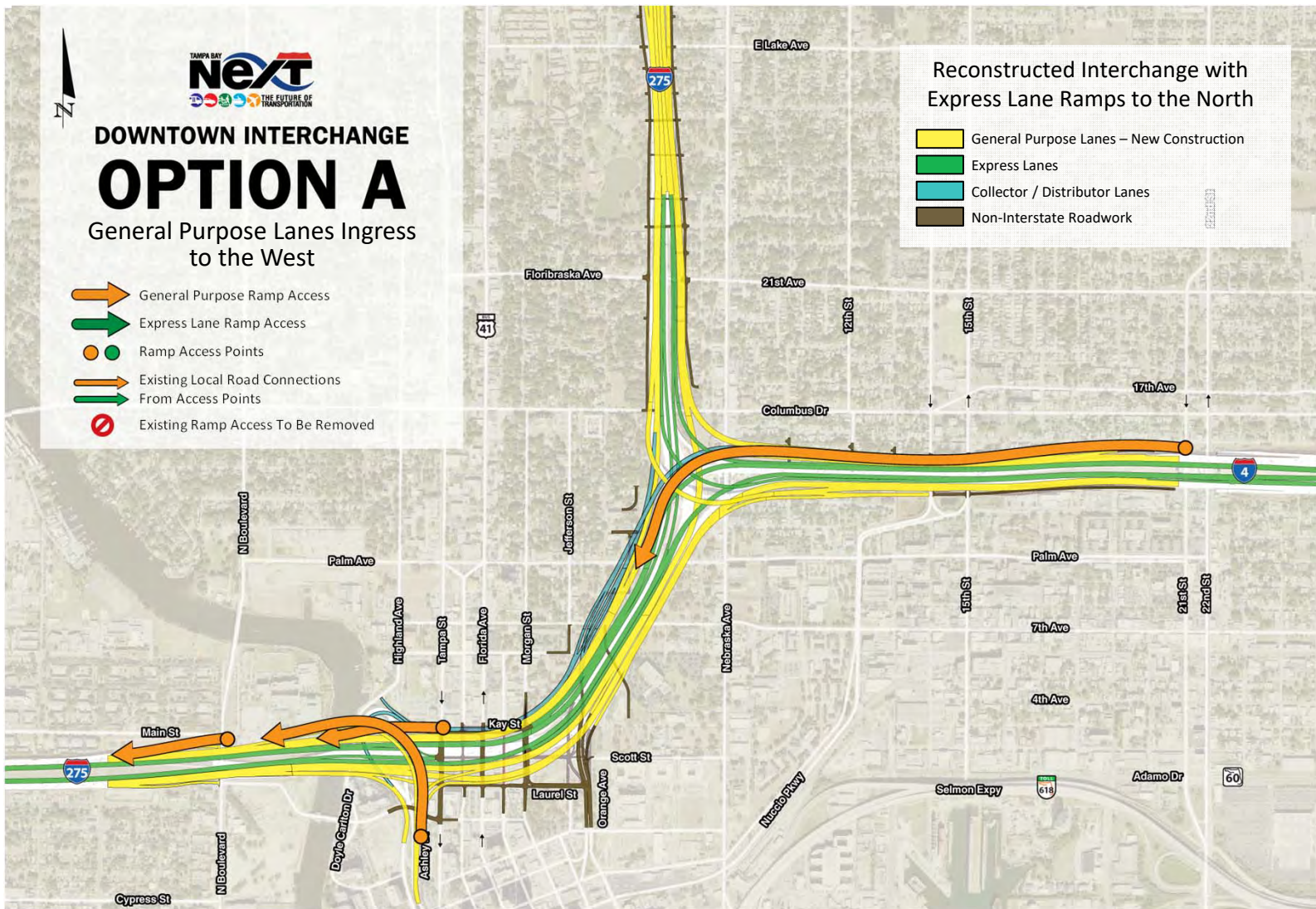
# OPTION A

General Purpose Lanes Ingress to the West

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- N. Blvd. Access. A new entrance ramp from N. Blvd. has been added.
- Downtown Access. Access from downtown has been maintained in a similar manner. Access has been maintained from Ashley Dr, however, the existing loop ramp from Ashley Dr. has been replaced with a direct flyover ramp. Access has been maintained from Tampa St. in a similar manner.
- Ybor City Access. Access from Ybor City has been maintained in a similar manner. Access has been maintained from 21st St./22nd St. with a similar entrance ramp that provides access to SB I-275 via WB I-4.














## DOWNTOWN INTERCHANGE

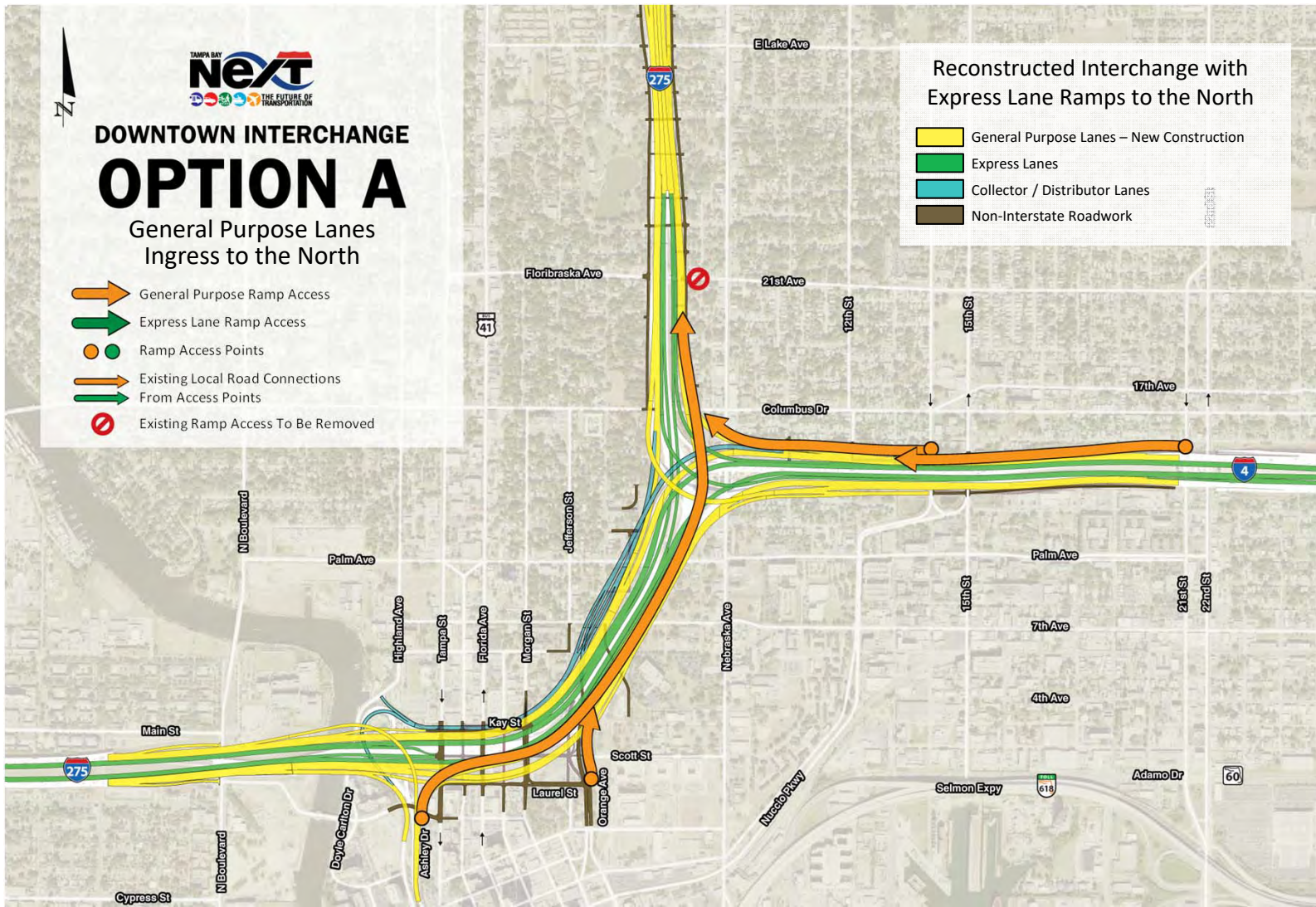
# OPTION A

General Purpose Lanes  
Ingress to the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Downtown Access. The access from downtown will be similar to the existing condition. A flyover ramp from Ashley Dr. has been provided for direct access to NB I-275. A ramp from Orange Ave. has been provided for direct access to NB I-275.
- Ybor City Access. Access from Ybor City will be maintained from 21st St./22nd St. with a similar entrance ramp that provides access to NB I-275 via WB I-4. Additionally, a new ramp from 14th St./15th St. with access to only NB I-275 has been added.
- Floribanks Ave. Access. Access from Floribanks Ave. has been removed.





## DOWNTOWN INTERCHANGE

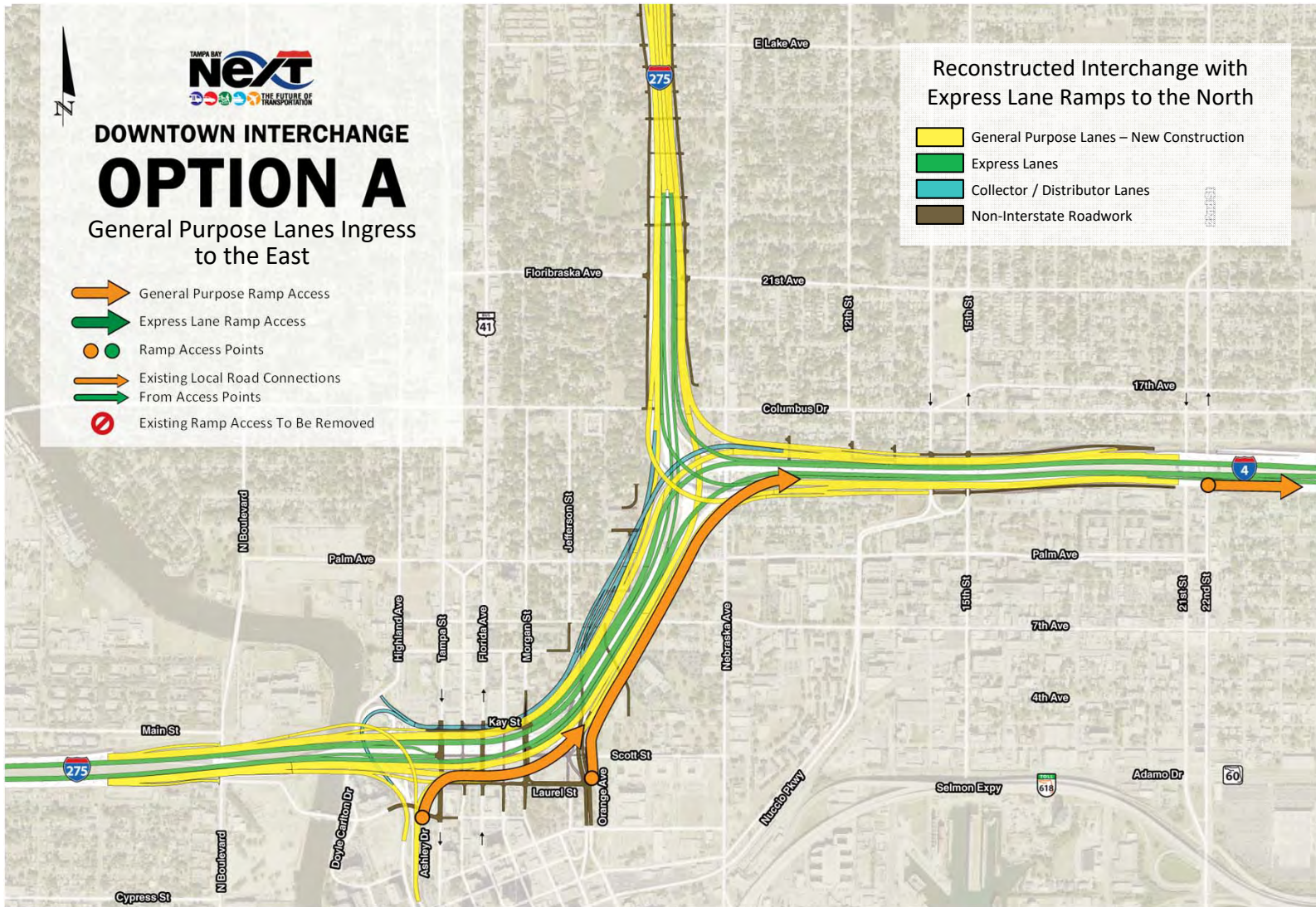
# OPTION A

General Purpose Lanes Ingress to the East

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Reconstructed Interchange with Express Lane Ramps to the North

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork








- Downtown Access. The access from downtown will be similar to the existing condition. A flyover ramp from Ashley Dr. has been provided for direct access to EB I-4. A ramp from Orange Ave. has been provided for direct access to EB I-4.
- Ybor City Access. Access from Ybor City has been maintained as-is with the existing entrance ramp from 21st St./22nd St. to EB I-4.









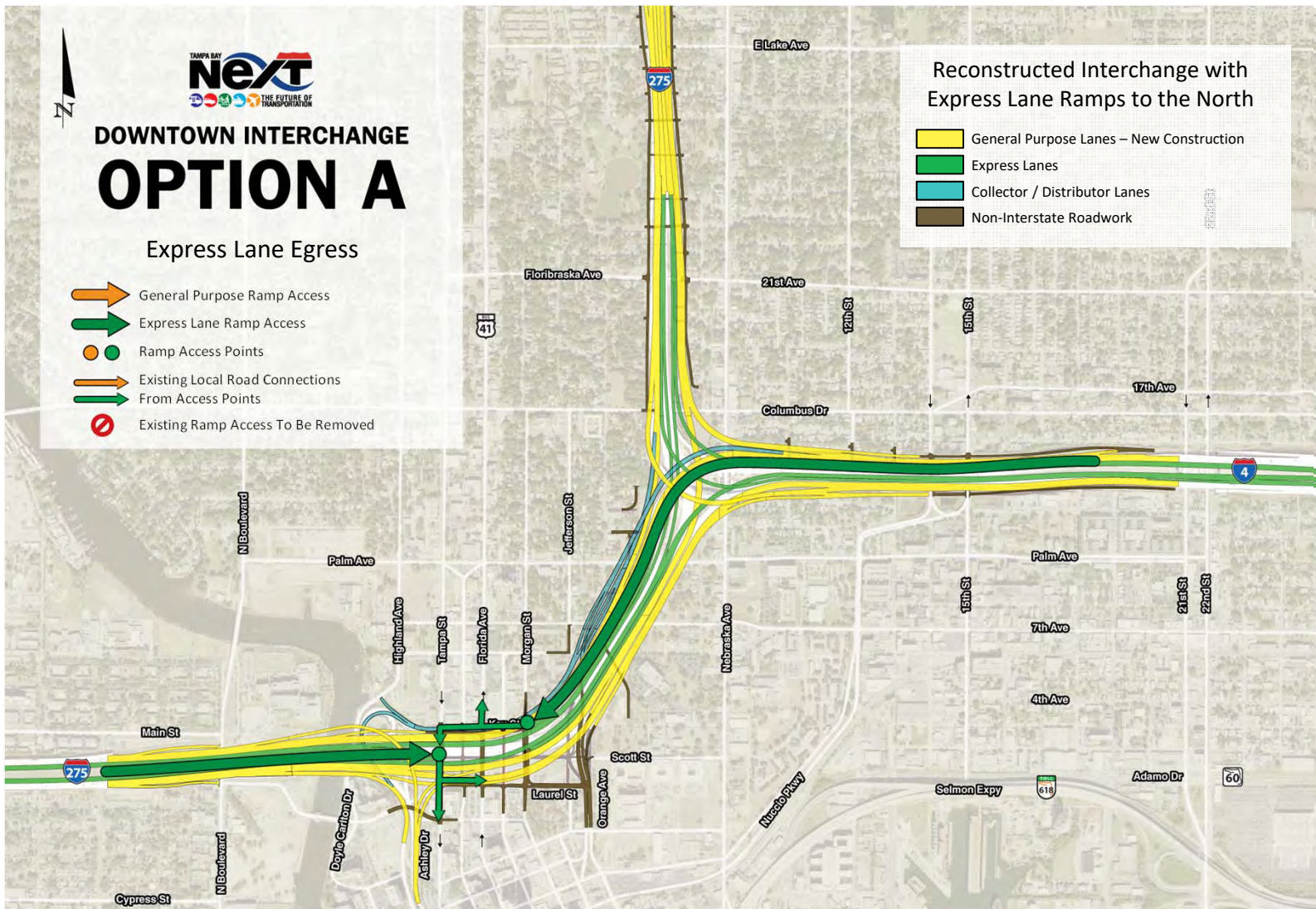
## DOWNTOWN INTERCHANGE OPTION A

### Express Lane Egress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork








- From the West (I-275 NB): An exit ramp has been added to Tampa St.
- From the East (I-4 WB): An exit ramp has been added to Morgan St. Exiting traffic will proceed west on the westbound one-way pair to Florida Ave. and Tampa St.









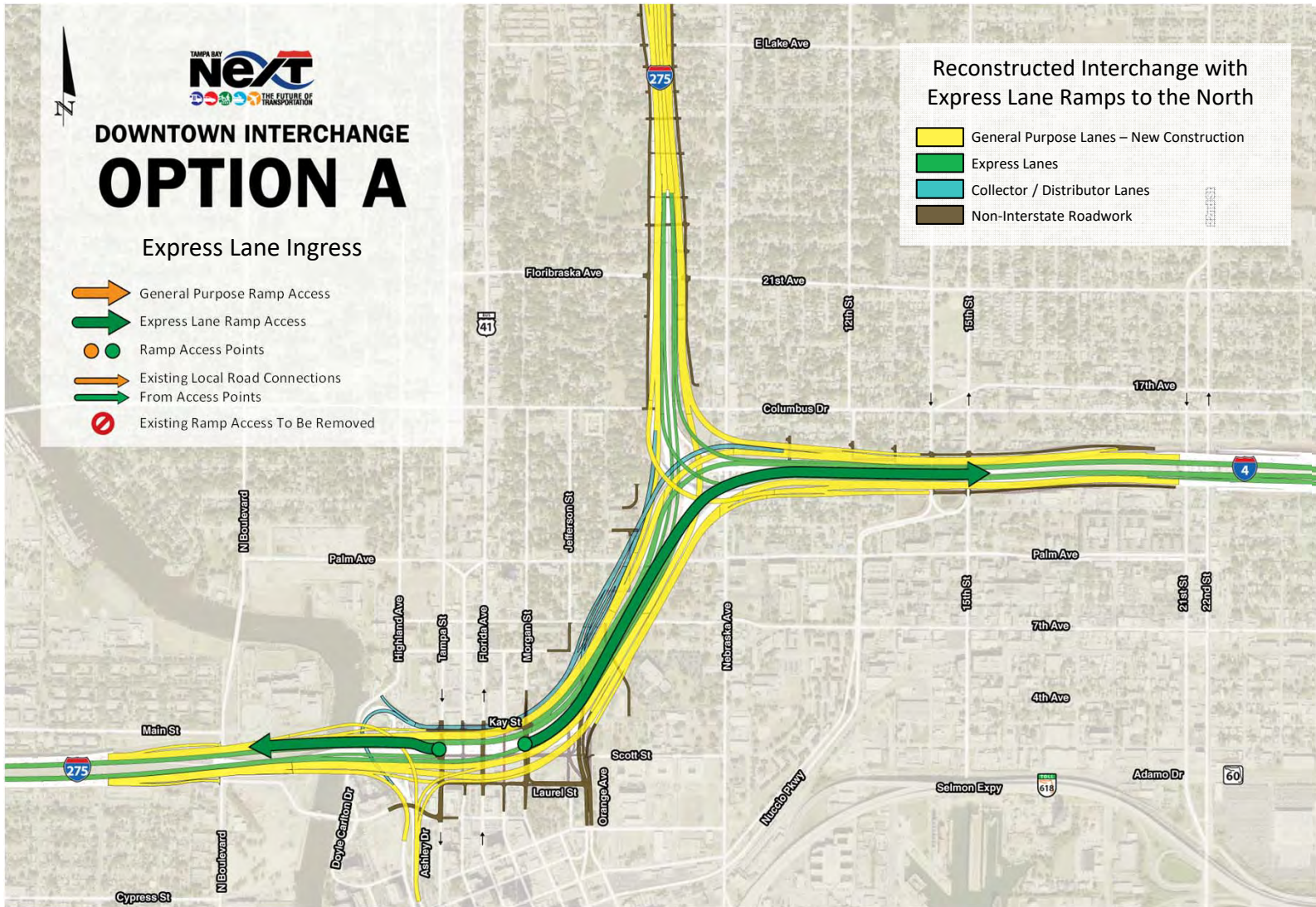
## DOWNTOWN INTERCHANGE OPTION A

### Express Lane Ingress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange with Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- To the West (I-275 SB): An entrance ramp has been added from Tampa St.
- To the East (I-4 EB): An entrance ramp has been added from Morgan St.





## DOWNTOWN INTERCHANGE

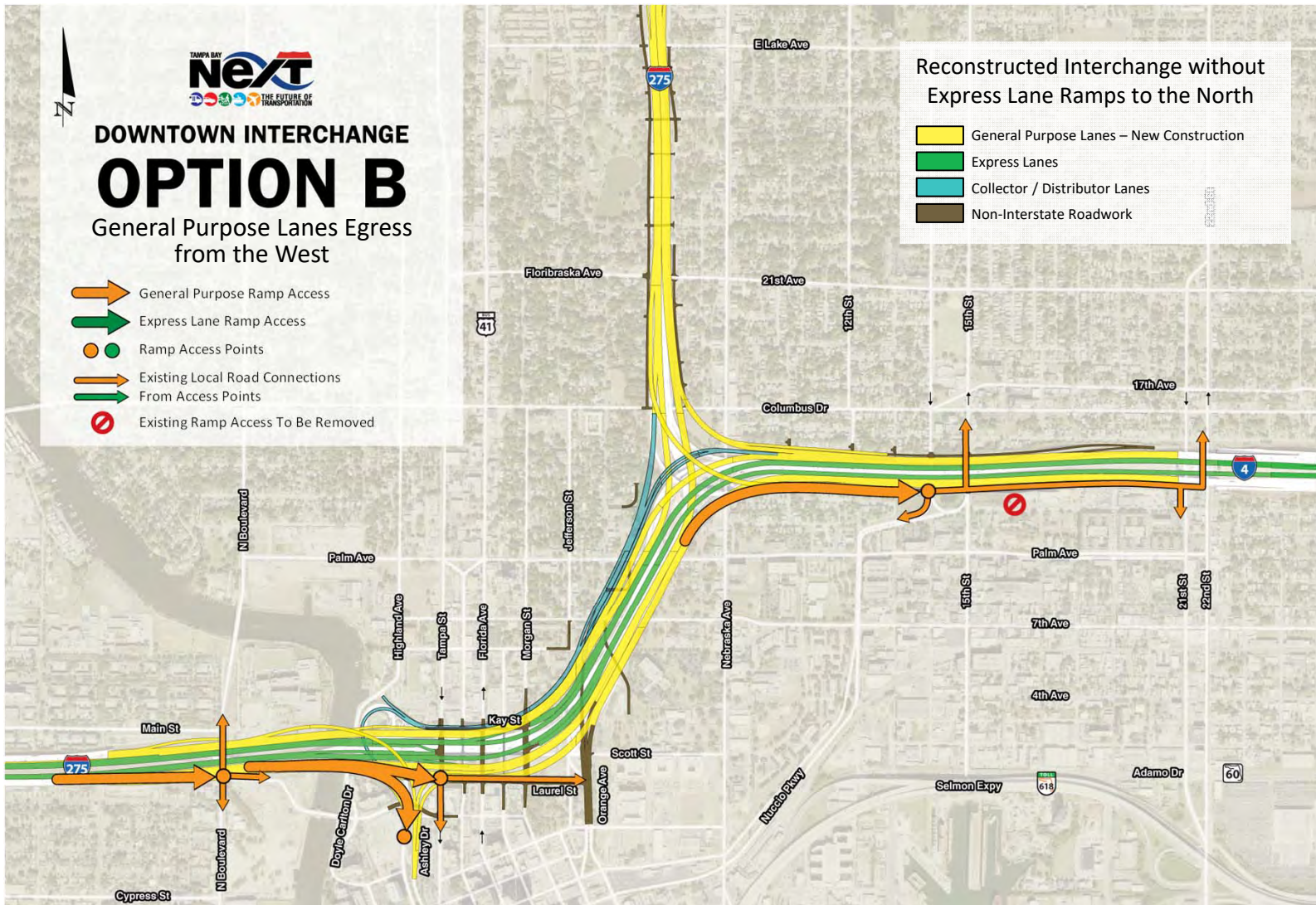
# OPTION B

General Purpose Lanes Egress from the West

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Reconstructed Interchange without Express Lane Ramps to the North

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- **N. Blvd. Access.** A new exit ramp to N. Blvd. has been added. Exiting traffic can head north or south on N. Blvd. or continue across N. Blvd. east on Laurel Street into downtown.
- **Downtown Access.** Access to downtown has been maintained in a similar manner. The exit ramp splits into separate ramp movements with the right fork to Ashley Dr. providing access to downtown west and the left fork heading into the one-way pair eastbound to Orange Avenue for access to downtown east.
- **Ybor City Access.** Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off NB I-275 just south of I-4. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.





## DOWNTOWN INTERCHANGE

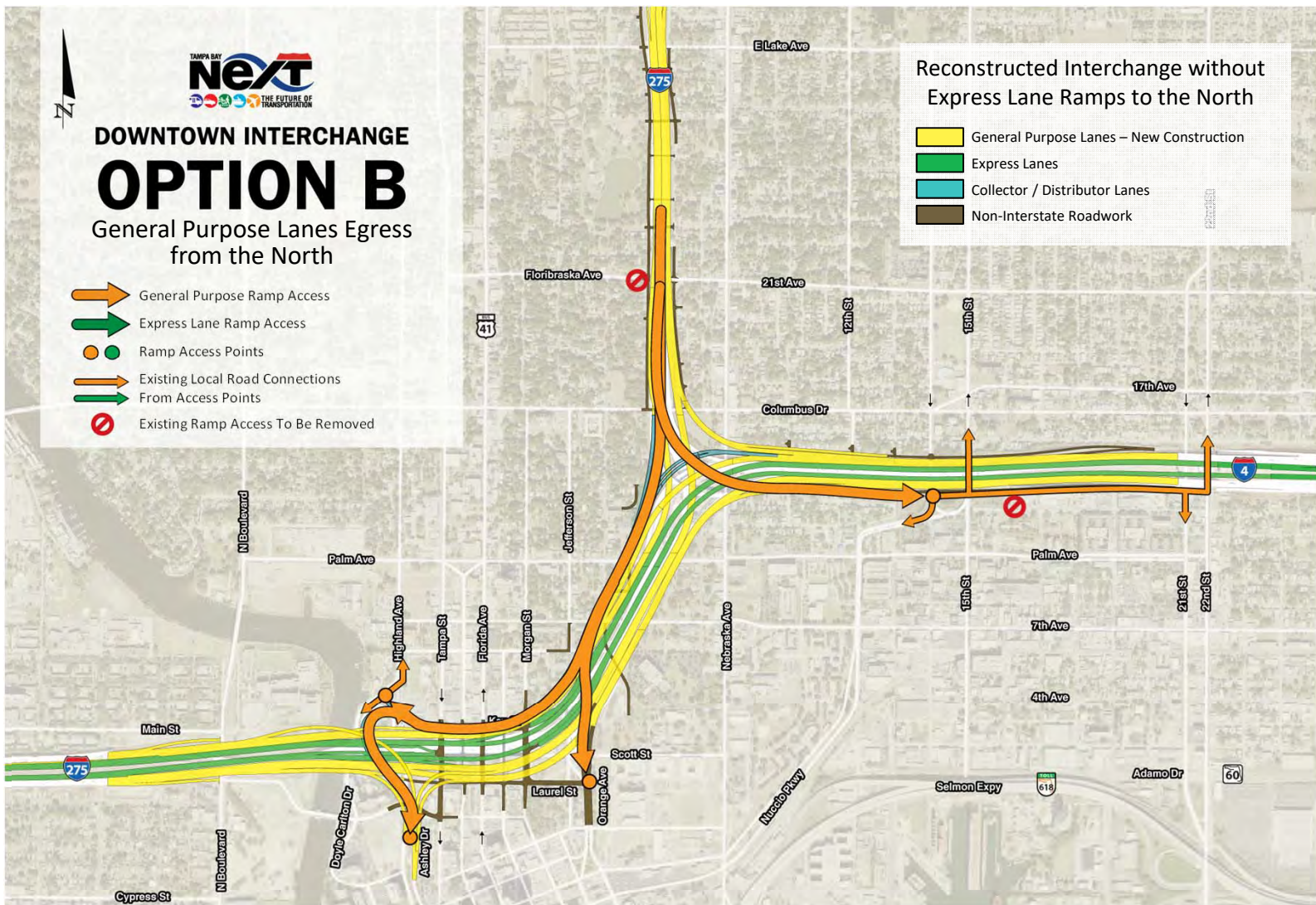
# OPTION B

General Purpose Lanes Egress from the North

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

### Reconstructed Interchange without Express Lane Ramps to the North

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- Floribanks Ave. Access. Access to Floribanks Ave. has been removed.
- Downtown Access. Access to downtown has been maintained in a similar manner. The ramp provides access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr. similar to the existing condition.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off the new two-lane flyover ramp from SB I-275. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.














## DOWNTOWN INTERCHANGE

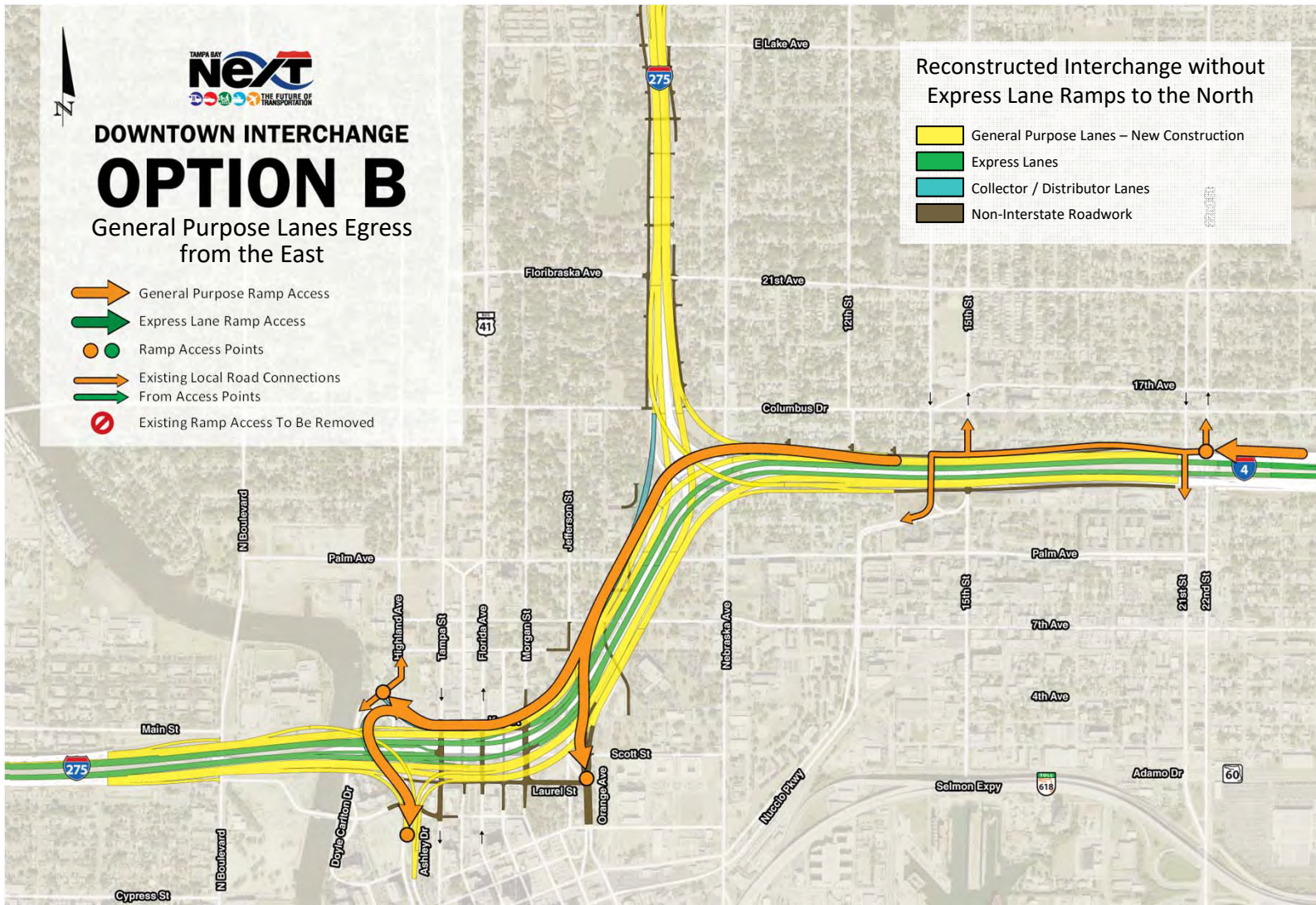
# OPTION B

General Purpose Lanes Egress from the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Ybor City Access. Access to Ybor City has been maintained in a similar manner. The existing exit ramp to Ybor City from I-4 at 21st St./22nd St. remains as-is. It provides access to 21st St./22nd St. and to 14th St./15th St. via the frontage road along the north side of I-275.
- Downtown Access. Access to downtown has been maintained in a similar manner. The ramp provides access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr. similar to the existing condition.














## DOWNTOWN INTERCHANGE

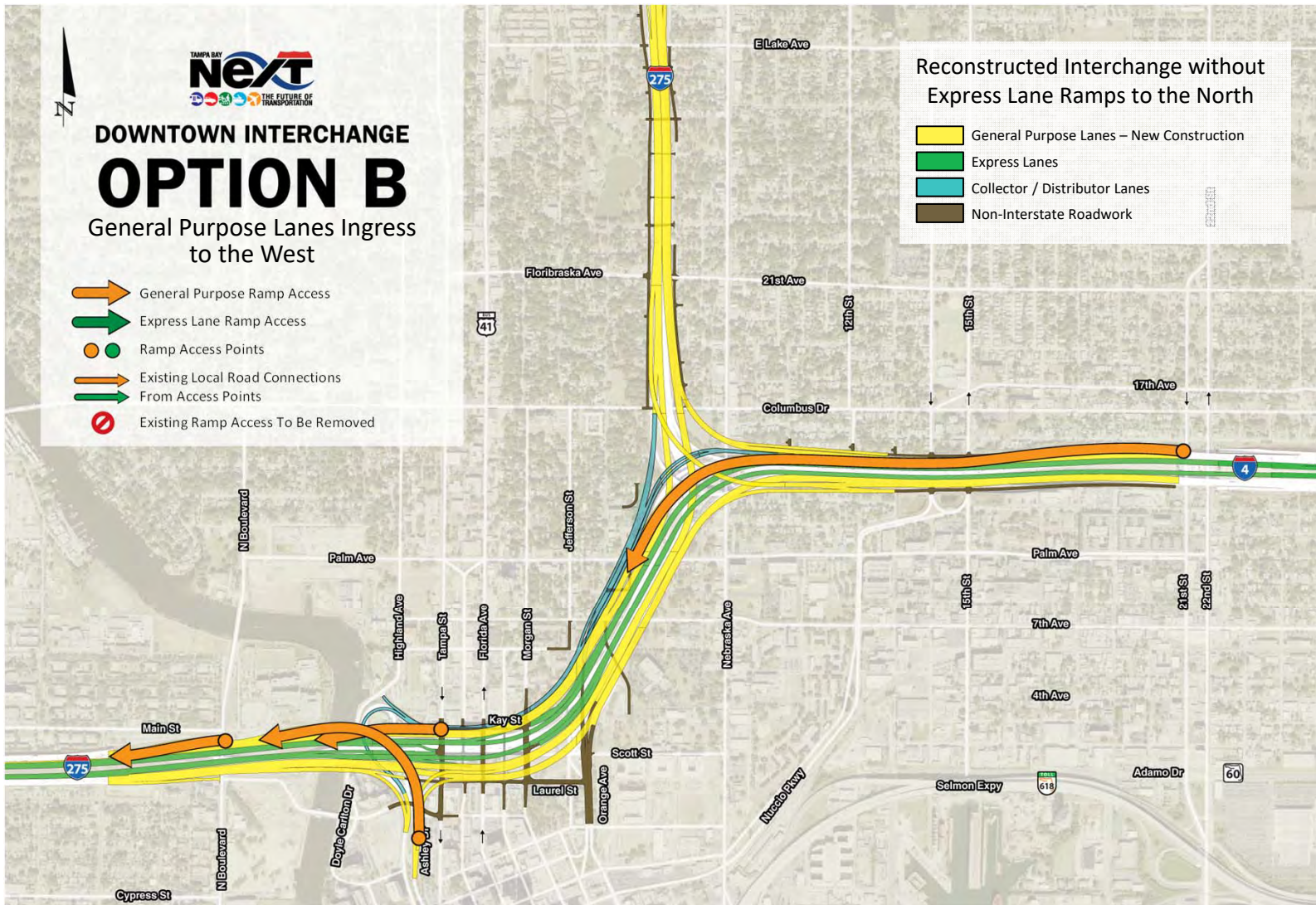
# OPTION B

General Purpose Lanes Ingress to the West

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- N. Blvd. Access. A new entrance ramp from N. Blvd. has been added.
- Downtown Access. Access from downtown has been maintained in a similar manner. Access has been maintained from Ashley Dr, however, the existing loop ramp from Ashley Dr. has been replaced with a direct flyover ramp. Access has been maintained from Tampa St. in a similar manner.
- Ybor City Access. Access from Ybor City has been maintained in a similar manner. Access has been maintained from 21st St./22nd St. with a similar entrance ramp that provides access to SB I-275 via WB I-4.














## DOWNTOWN INTERCHANGE

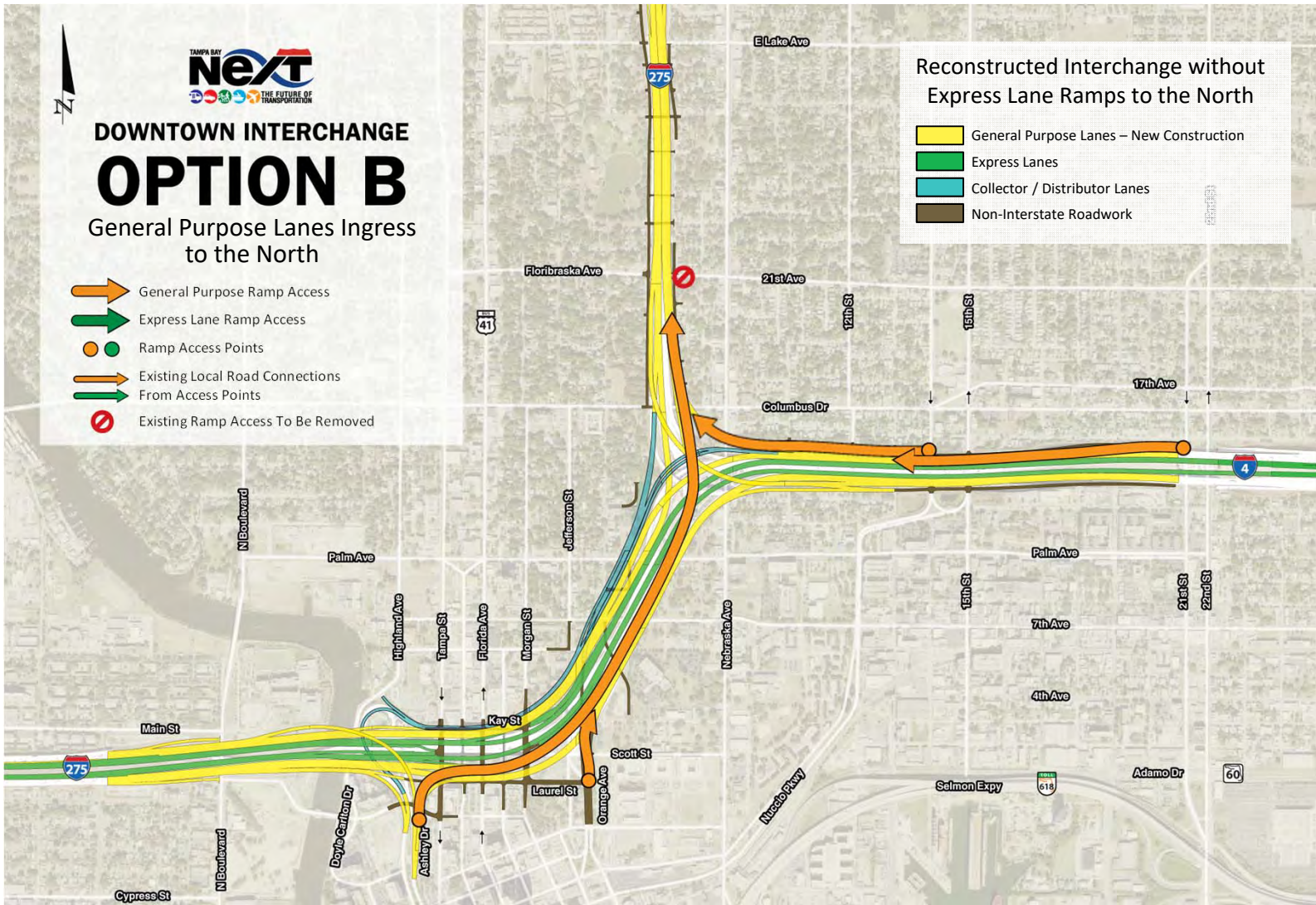
# OPTION B

General Purpose Lanes Ingress to the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Downtown Access. The access from downtown will be similar to the existing condition. A flyover ramp from Ashley Dr. has been provided for direct access to NB I-275. A ramp from Orange Ave. has been provided for direct access to NB I-275.
- Ybor City Access. Access from Ybor City will be maintained from 21st St./22nd St. with a similar entrance ramp that provides access to NB I-275 via WB I-4. Additionally, a new ramp from 14th St./15th St. with access to only NB I-275 has been added.
- Floribrasca Ave. Access. Access from Floribrasca Ave. has been removed.














## DOWNTOWN INTERCHANGE

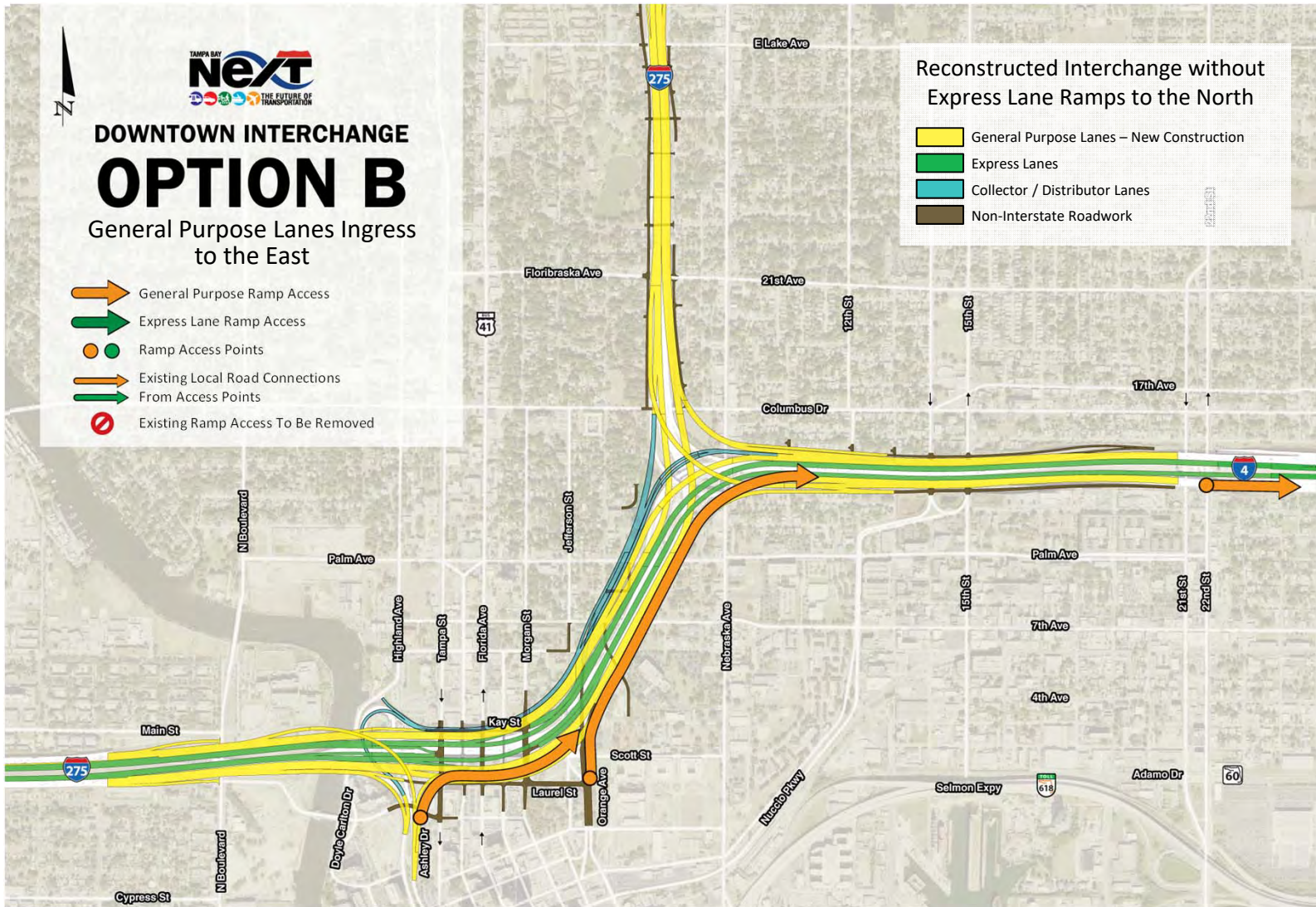
# OPTION B

General Purpose Lanes Ingress to the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Downtown Access. The access from downtown will be similar to the existing condition. A flyover ramp from Ashley Dr. has been provided for direct access to EB I-4. A ramp from Orange Ave. has been provided for direct access to EB I-4.
- Ybor City Access. Access from Ybor City has been maintained as-is with the existing entrance ramp from 21st St./22nd St. to EB I-4.














## DOWNTOWN INTERCHANGE

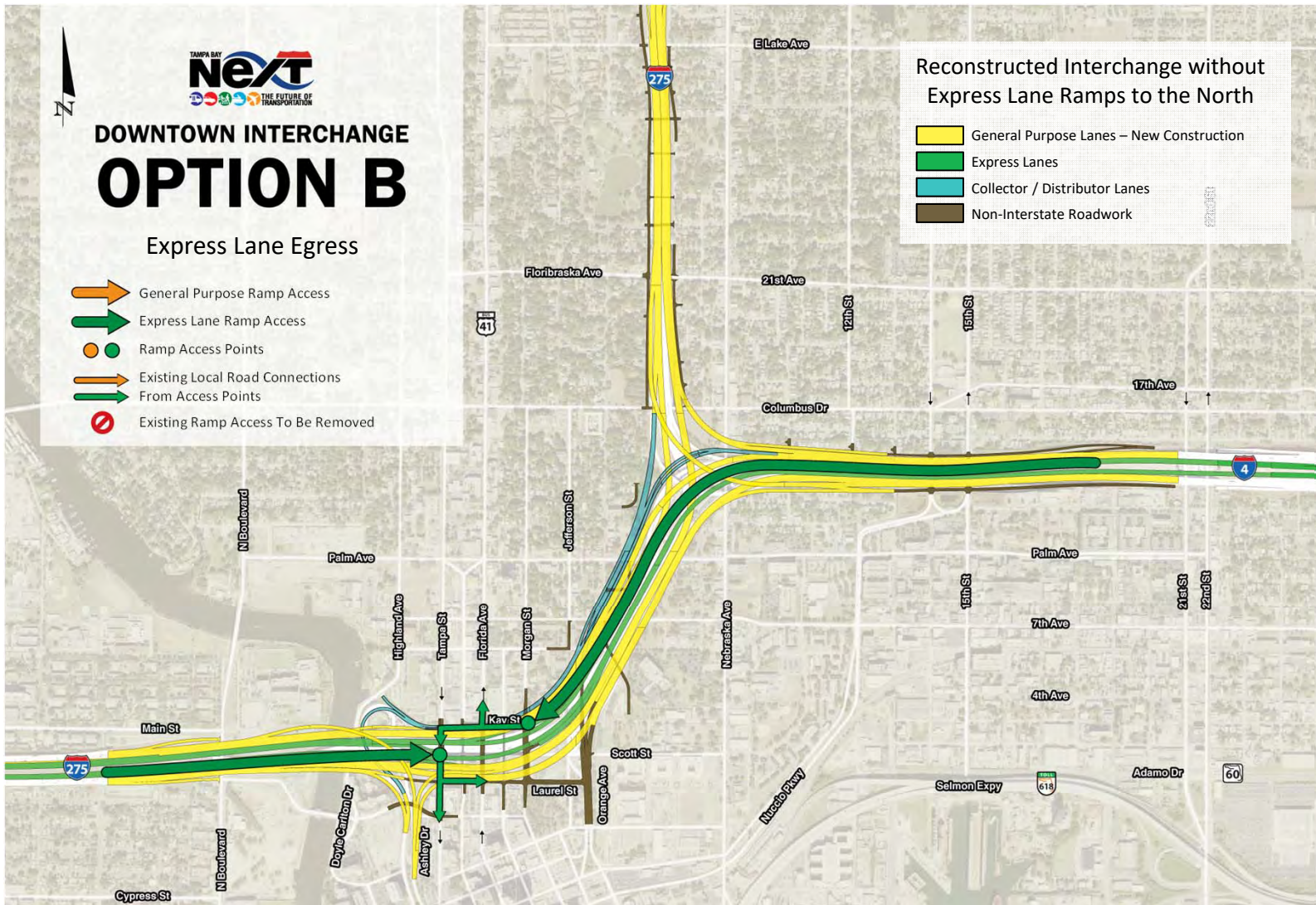
# OPTION B

### Express Lane Egress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- From the West (I-275 NB): An exit ramp has been added to Tampa St.
- From the East (I-4 WB): An exit ramp has been added to Morgan St. Exiting traffic will proceed west on the westbound one-way pair to Florida Ave. and Tampa St.














## DOWNTOWN INTERCHANGE

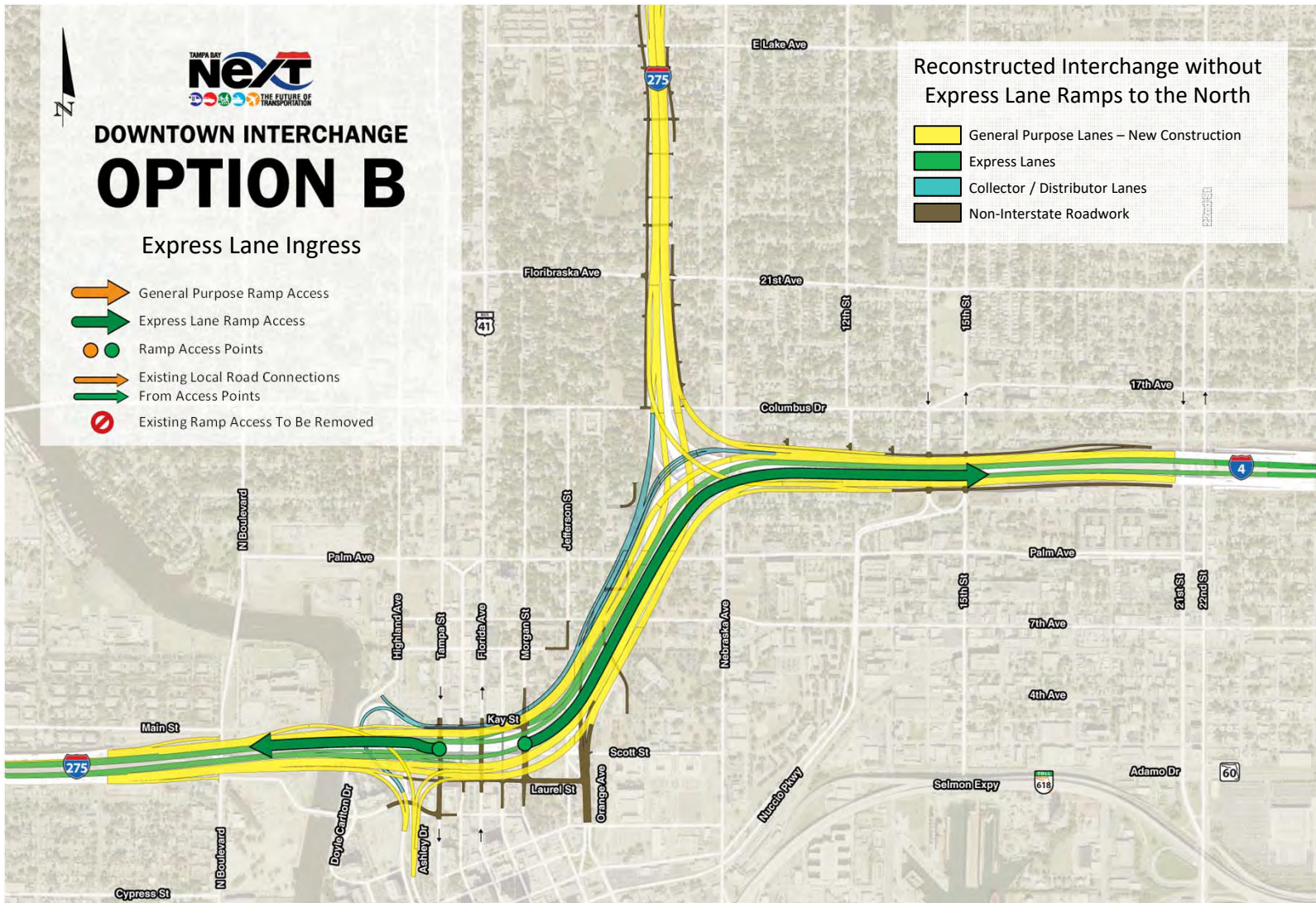
# OPTION B

### Express Lane Ingress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Reconstructed Interchange without Express Lane Ramps to the North

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- To the West (I-275 SB): An entrance ramp has been added from Tampa St.
- To the East (I-4 EB): An entrance ramp has been added from Morgan St.





## DOWNTOWN INTERCHANGE

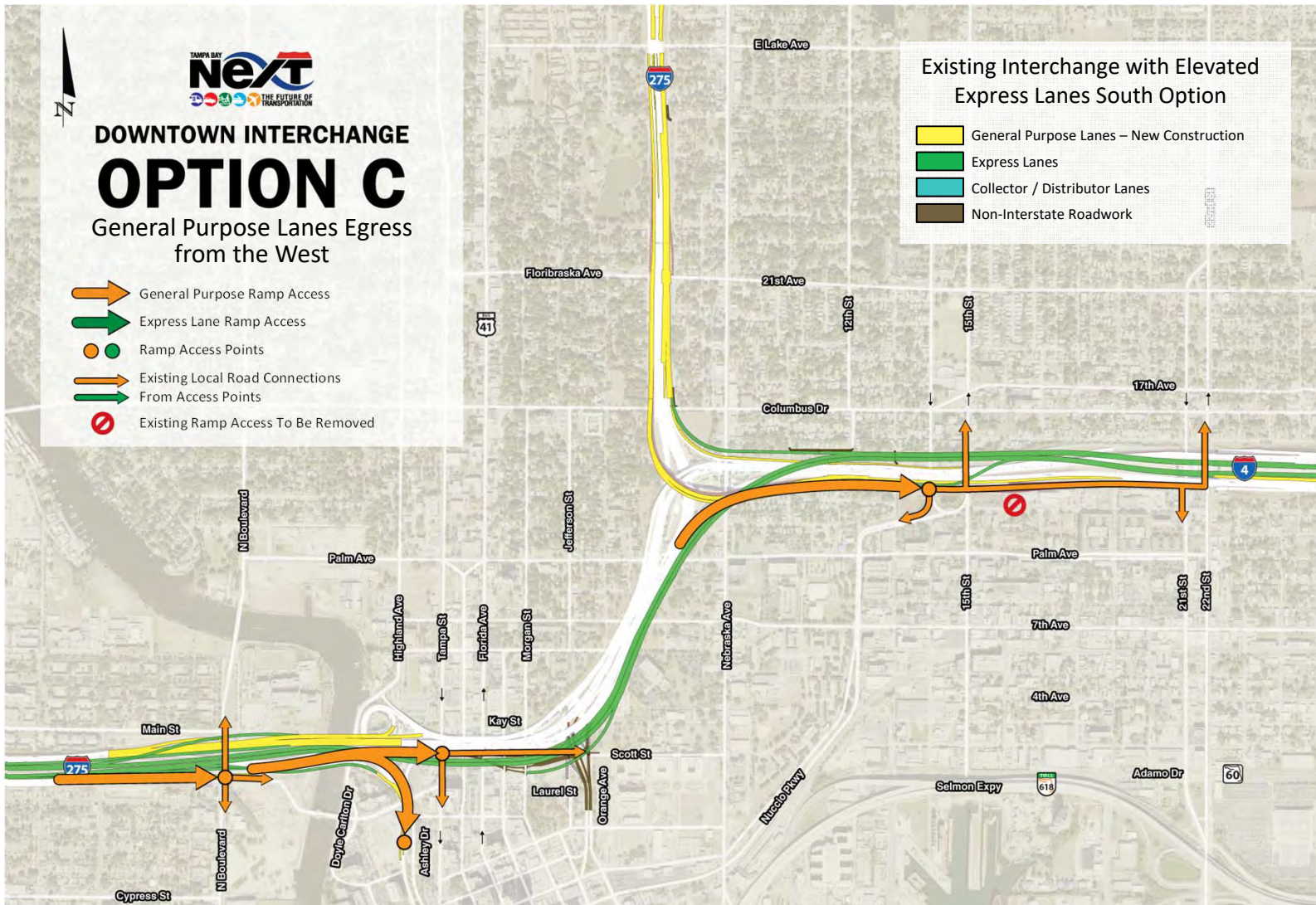
# OPTION C

General Purpose Lanes Egress from the West

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes South Option

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- N. Blvd. Access. A new exit ramp to N. Blvd. has been added. Exiting traffic can head north or south on N. Blvd. or continue across N. Blvd. east on Laurel Street into downtown.
- Downtown Access. Access to downtown has been maintained as-is. The exit ramp splits into separate ramp movements with the right fork to Ashley Dr. providing access to downtown west and the left fork heading into Scott St. eastbound to Orange Avenue for access to downtown east.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off NB I-275 just south of I-4. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.














## DOWNTOWN INTERCHANGE

# OPTION C

General Purpose Lanes Egress  
from the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Floribraska Ave. Access. Access to Floribraska Ave. has been removed.
- Downtown Access. Access to downtown has been maintained as-is with the existing ramp access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off the new two-lane flyover ramp from SB I-275. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.














## DOWNTOWN INTERCHANGE

# OPTION C

General Purpose Lanes Egress from the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Ybor City Access. Access to Ybor City has been maintained as-is. The existing exit ramp to Ybor City from I-4 at 21st St./22nd St. provides access to 21st St./22nd St. and to 14th St./15th St. via the frontage road along the north side of I-275.
- Downtown Access. Access to downtown has been maintained as-is with the existing ramp access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr.





## DOWNTOWN INTERCHANGE

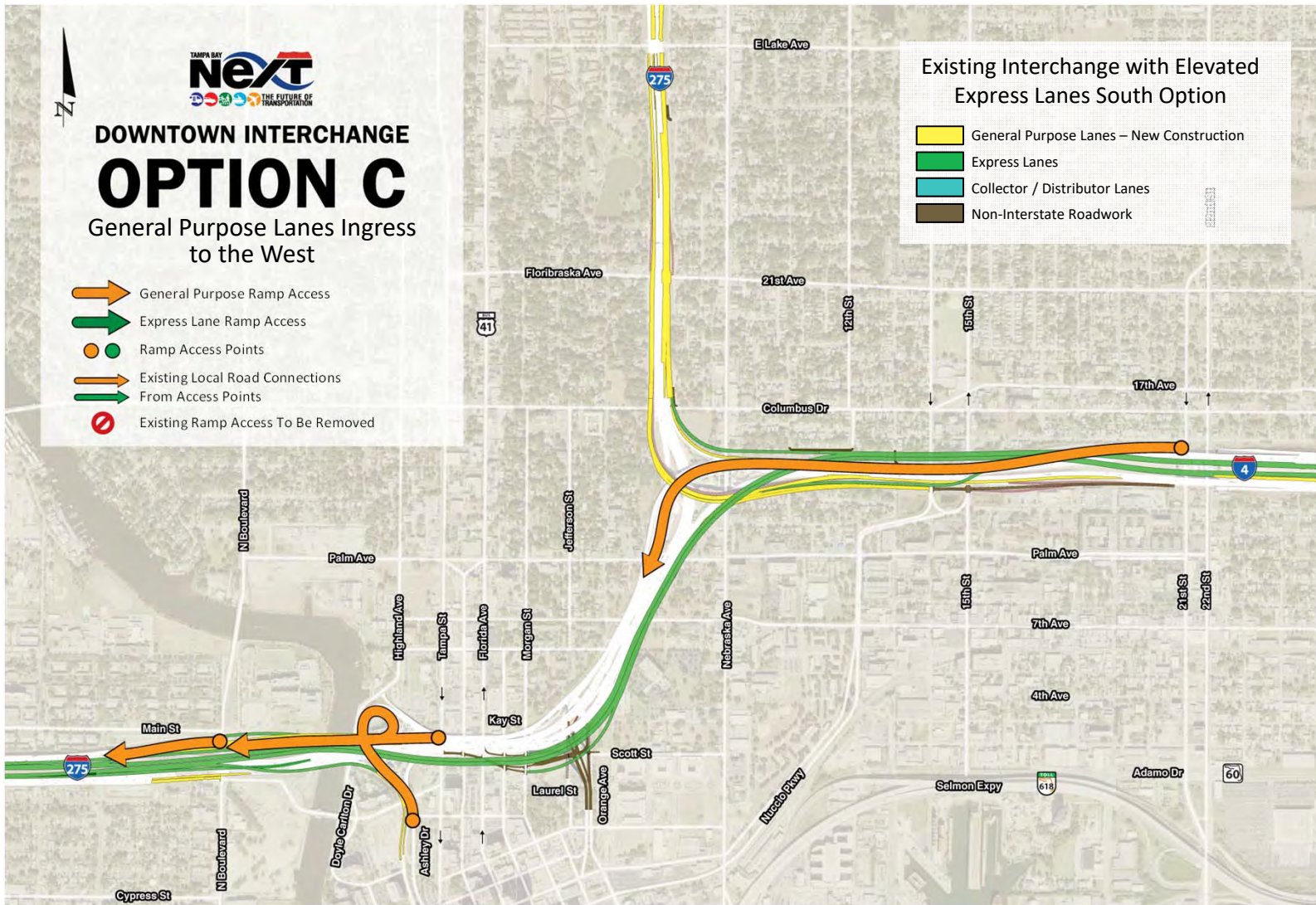
# OPTION C

General Purpose Lanes Ingress to the West

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes South Option

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- N. Blvd. Access. A new entrance ramp from N. Blvd. has been added.
- Downtown Access. Access from downtown has been maintained in a similar manner. Access has been maintained from Ashley Dr. via the existing loop ramp. Access has been maintained from Tampa St.
- Ybor City Access. Access from Ybor City has been maintained as-is. Access has been maintained from 21st St./22nd St. that provides access to SB I-275 via WB I-4.














## DOWNTOWN INTERCHANGE

# OPTION C

General Purpose Lanes Ingress to the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Downtown Access. The access from downtown will be maintained as-is. The existing ramp from Ashley Dr. to NB I-275 remains as-is. The existing ramp from Orange Ave. to NB I-275 remains as-is entering on the left side of NB I-275.
- Ybor City Access. Access from Ybor City has been maintained as-is. Access has been maintained from 21st St./22nd St. that provides access to SB I-275 via WB I-4.
- Floribaska Ave. Access. Access from Floribaska Ave. has been removed.














## DOWNTOWN INTERCHANGE

# OPTION C

General Purpose Lanes Ingress to the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork








- Downtown Access. The access from downtown will be maintained as-is. The existing ramp from Ashley Dr. to NB I-275 remains as-is. The existing ramp from Orange Ave. to I-4 remains as-is entering on the right side of NB I-275.
- Ybor City Access. Access from Ybor City has been maintained as-is with the existing entrance ramp from 21st St./22nd St. to EB I-4.









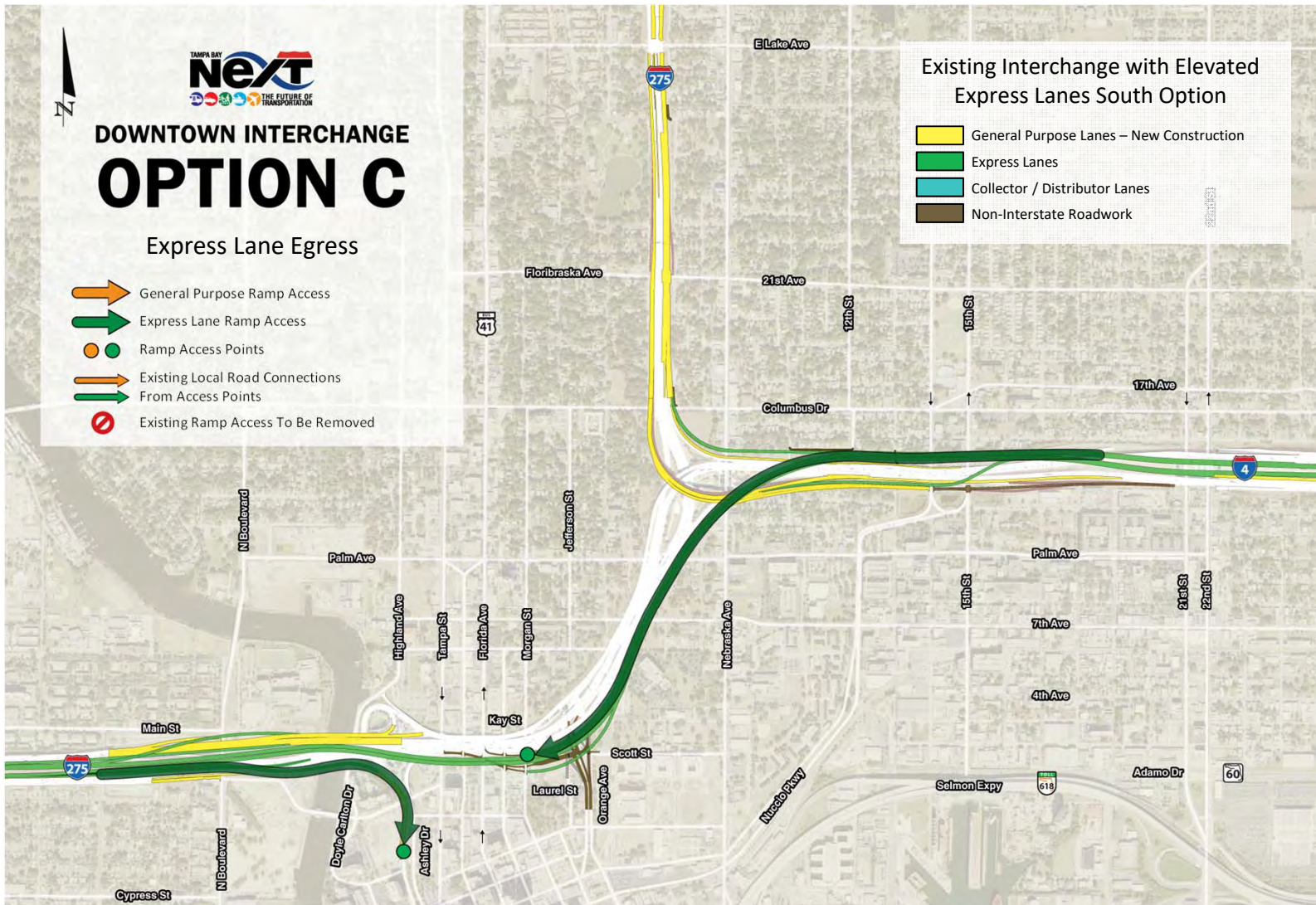
## DOWNTOWN INTERCHANGE OPTION C

### Express Lane Egress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork








- From the West (I-275 NB): An exit ramp from the express lanes has been provided to Ashley Dr. The exit ramp flies over NB I-275 and joins the outside of the General Purpose exit ramp to Ashley Dr.
- From the East (I-4 WB): An exit ramp has been added to Morgan St. Exiting traffic will proceed west on the westbound one-way pair to Florida Ave. and then via Kay St. to Tampa St.









# DOWNTOWN INTERCHANGE **OPTION C**

## Express Lane Ingress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes South Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- To the West (I-275 SB): Access from downtown is provided in the same manner as the General Purpose entrances from Ashley Dr. via the existing loop ramp and from Tampa St. However, once those two movements combine on the ramp crossing the Hillsborough River, there is a secondary exit off the ramp that flies over SB I-275 into the express lanes.
- To the East (I-4 EB): An entrance ramp has been added from Morgan St.





## DOWNTOWN INTERCHANGE

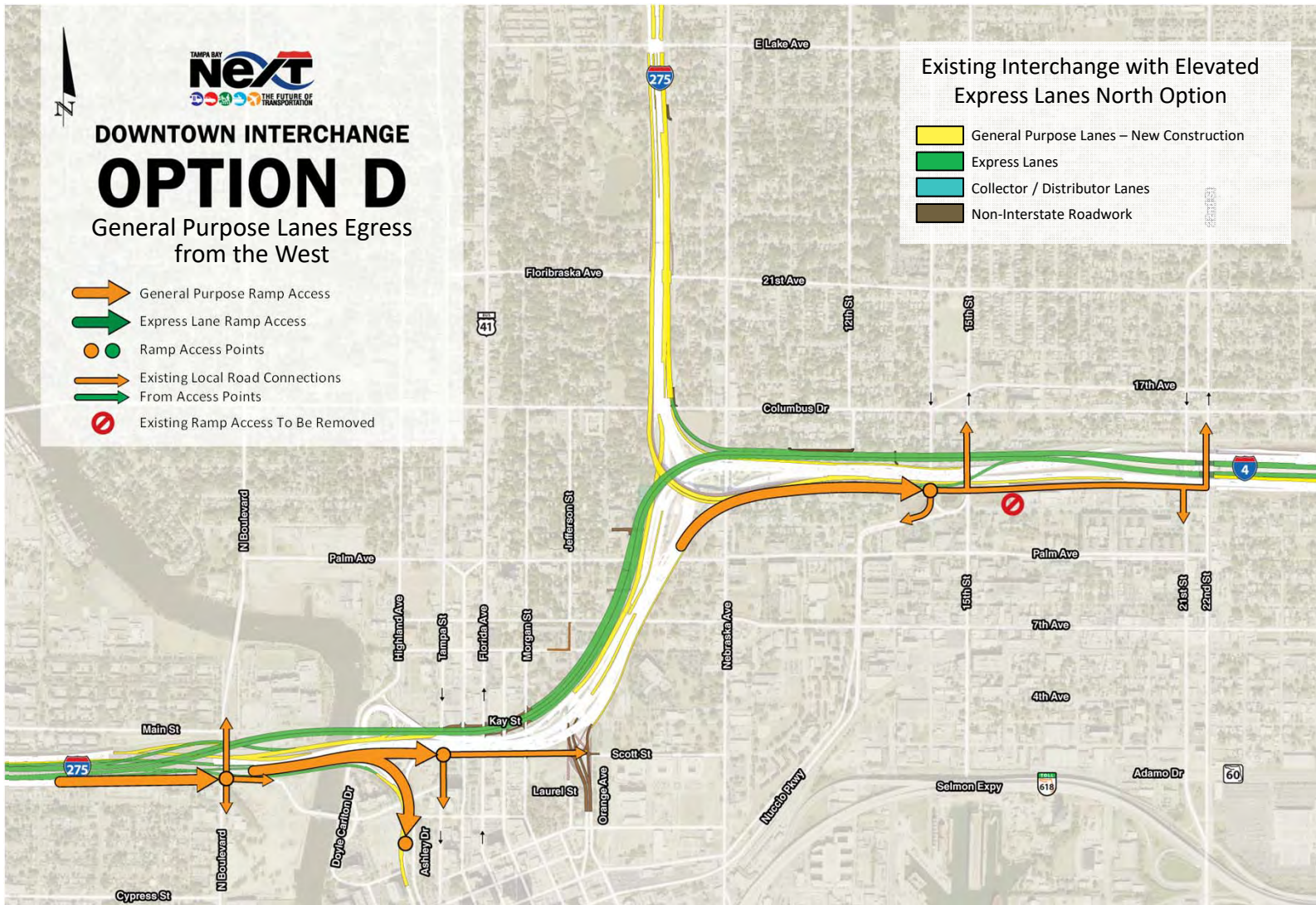
# OPTION D

General Purpose Lanes Egress from the West

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- **N. Blvd. Access.** A new exit ramp to N. Blvd. has been added. Exiting traffic can head north or south on N. Blvd. or continue across N. Blvd. east on Laurel Street into downtown.
- **Downtown Access.** Access to downtown has been maintained as-is. The exit ramp splits into separate ramp movements with the right fork to Ashley Dr. providing access to downtown west and the left fork heading into Scott St. eastbound to Orange Avenue for access to downtown east.
- **Ybor City Access.** Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off NB I-275 just south of I-4. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.














## DOWNTOWN INTERCHANGE

# OPTION D

General Purpose Lanes Egress from the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Floribraska Ave. Access. Access to Floribraska Ave. has been removed.
- Downtown Access. Access to downtown has been maintained in a similar manner. The ramp provides access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr. similar to the existing condition.
- Ybor City Access. Access to Ybor City has been modified. The existing exit ramp to Ybor City from I-4 to 21st St./22nd St. has been replaced with a new exit ramp located off the new two-lane flyover ramp from SB I-275. The new ramp will exit to 14th St./15th St. Exiting traffic can access Ybor City via 14th St./15th St. or proceed east on the two-lane frontage road to 21st St./22nd St.





## DOWNTOWN INTERCHANGE

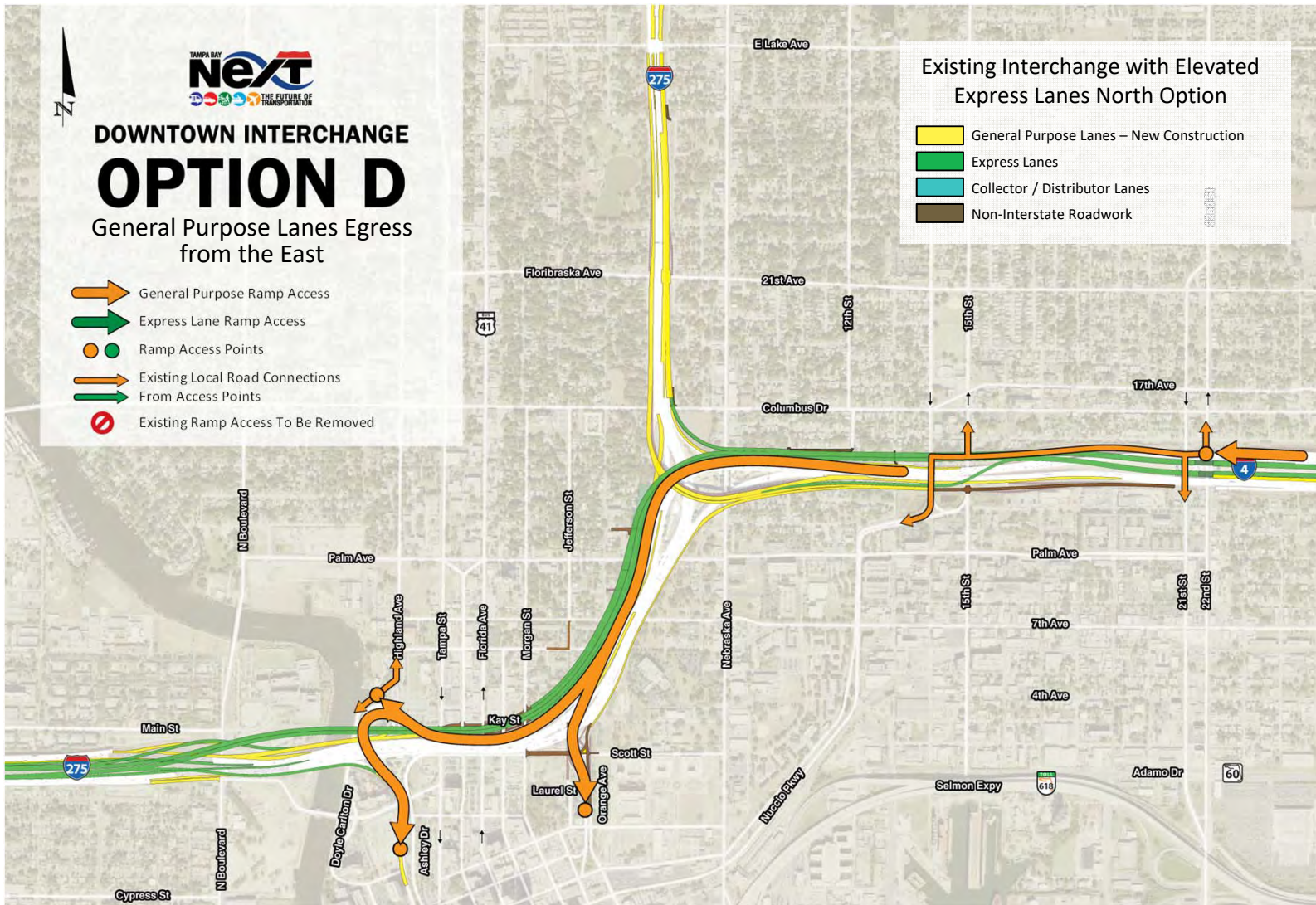
# OPTION D

General Purpose Lanes Egress from the East

- General Purpose Ramp Access
- Express Lane Ramp Access
- Ramp Access Points
- Existing Local Road Connections From Access Points
- Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes North Option

- General Purpose Lanes – New Construction
- Express Lanes
- Collector / Distributor Lanes
- Non-Interstate Roadwork



- Ybor City Access. Access to Ybor City has been maintained as-is. The existing exit ramp to Ybor City from I-4 at 21st St./22nd St. provides access to 21st St./22nd St. and to 14th St./15th St. via the frontage road along the north side of I-275.
- Downtown Access. Access to downtown has been maintained as-is with the existing ramp access to Orange Ave./Jefferson St., Doyle Carlton Dr. and Ashley Dr.














## DOWNTOWN INTERCHANGE

# OPTION D

General Purpose Lanes Ingress to the West

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- N. Blvd. Access. A new entrance ramp from N. Blvd. has been added.
- Downtown Access. Access from downtown has been maintained in a similar manner. Access has been maintained from Ashley Dr. via the existing loop ramp. Access has been maintained from Tampa St.
- Ybor City Access. Access from Ybor City has been maintained as-is. Access has been maintained from 21st St./22nd St. that provides access to SB I-275 via WB I-4.














## DOWNTOWN INTERCHANGE

# OPTION D

General Purpose Lanes Ingress to the North

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- Downtown Access. The access from downtown will be maintained as-is. The existing ramp from Ashley Dr. to NB I-275 remains as-is. The existing ramp from Orange Ave. to NB I-275 remains as-is entering on the left side of NB I-275.
- Ybor City Access. Access from Ybor City has been maintained as-is. Access has been maintained from 21st St./22nd St. that provides access to SB I-275 via WB I-4.
- Floribrasca Ave. Access. Access from Floribrasca Ave. has been removed.














## DOWNTOWN INTERCHANGE

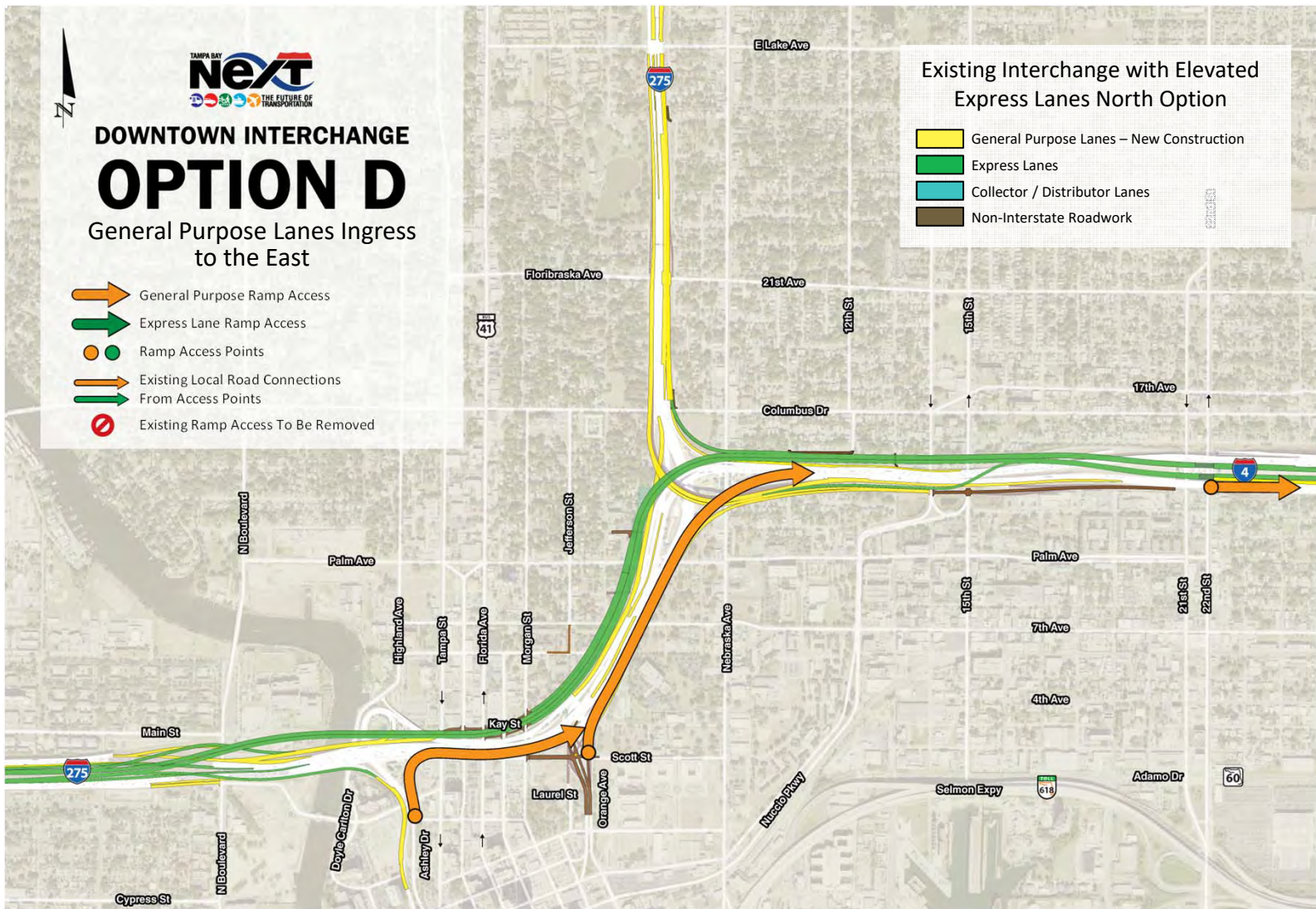
# OPTION D

General Purpose Lanes Ingress to the East

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork








- Downtown Access. The access from downtown will be maintained as-is. The existing ramp from Ashley Dr. to NB I-275 remains as-is. The existing ramp from Orange Ave. to I-4 remains as-is entering on the right side of NB I-275.
- Ybor City Access. Access from Ybor City has been maintained as-is with the existing entrance ramp from 21st St./22nd St. to EB I-4.









## DOWNTOWN INTERCHANGE OPTION D

### Express Lane Egress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

### Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork








- From the West (I-275 NB): An exit ramp from the express lanes has been provided to Ashley Dr. The exit ramp flies over NB I-275 and joins the outside of the General Purpose exit ramp to Ashley Dr.
- From the East (I-4 WB): An exit ramp has been added to Morgan St. Exiting traffic will proceed west on the westbound one-way pair to Florida Ave. and Tampa St.









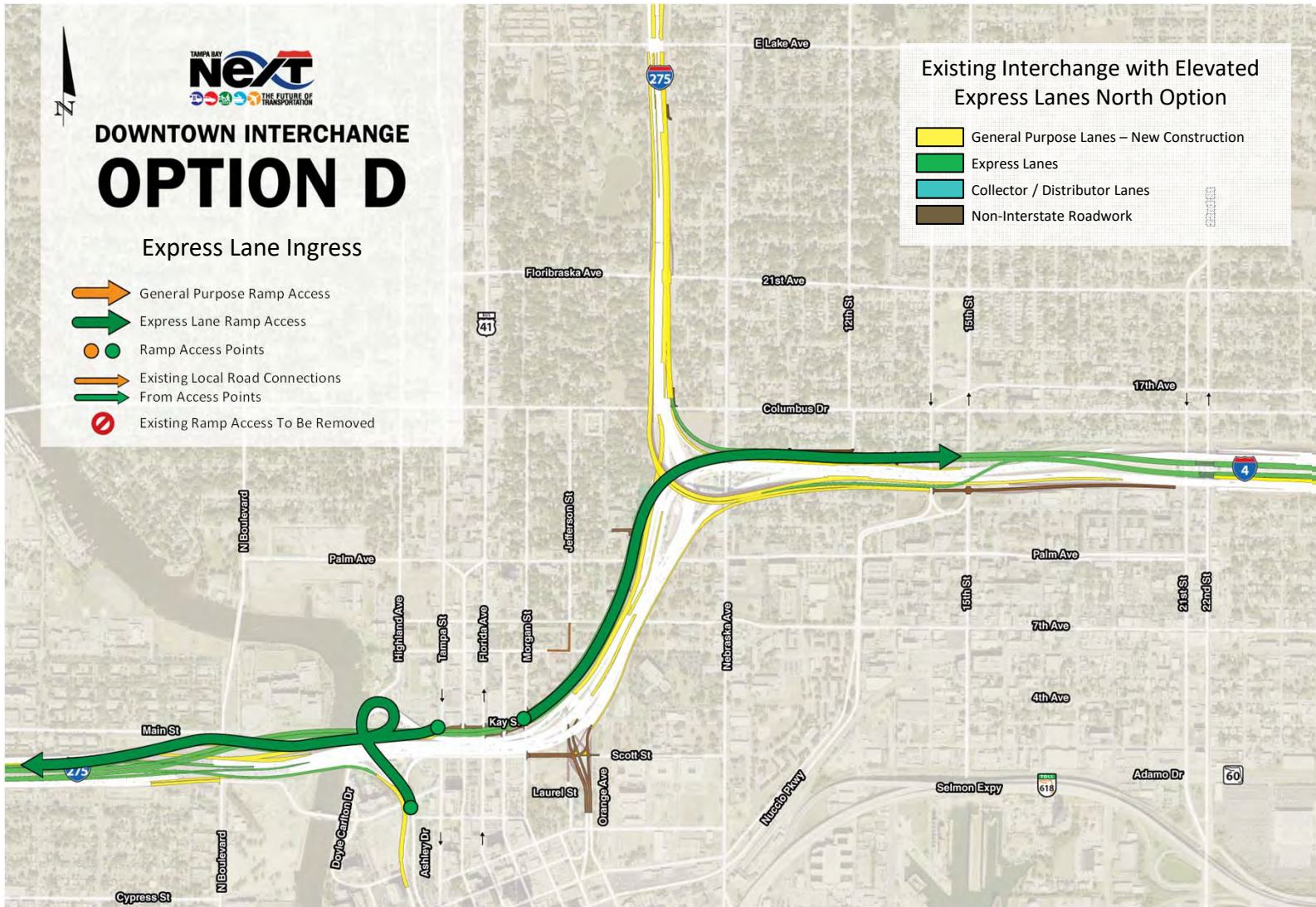
# DOWNTOWN INTERCHANGE **OPTION D**

## Express Lane Ingress

-  General Purpose Ramp Access
-  Express Lane Ramp Access
-  Ramp Access Points
-  Existing Local Road Connections From Access Points
-  Existing Ramp Access To Be Removed

## Existing Interchange with Elevated Express Lanes North Option

-  General Purpose Lanes – New Construction
-  Express Lanes
-  Collector / Distributor Lanes
-  Non-Interstate Roadwork



- To the West (I-275 SB): Access from downtown is provided in the same manner as the General Purpose entrances from Ashley Dr. via the existing loop ramp and from Tampa St. However, once those two movements combine on the ramp crossing the Hillsborough River, there is a secondary exit off the ramp that flies over SB I-275 into the express lanes.
- To the East (I-4 EB): An entrance ramp has been added from Morgan St.



**APPENDIX F**  
**Long Range**  
**Estimating System**  
**Cost Estimate**



LRE Cost Estimates		434045-2	West of Seg 2B	Segment 2B				
LRE			434045-5 Limits in	434045-5 Limits in	445056-1 WB to NB	445056-2 SB/WB	445057-1 SB to EB	443770-1 I-275 from
Seq	Orange-split 2A/2B, Yellow all to 2B	Total LRE 4/2/20	Segment 2A	Segment 2B		to DT		N/I-4 to N/MLK
1	NB EL Lois to Himes	\$ 14,844,830.71	\$ 14,844,830.71	\$ -	\$ 8,322,719.95	\$ 3,411,838.98	\$ 2,504,116.60	\$ 5,792,769.00
2	NB EL Himes to MacDill	\$ 3,293,913.70	\$ 3,293,913.70	\$ -	\$ 305,626.15	\$ 184,705.55	\$ 2,654,009.99	\$ 9,388,581.49
3	NB EL MacDill to W/Armenia	\$ 2,671,339.60	\$ 2,671,339.60	\$ -	\$ 1,206,655.85	\$ 5,951,847.44	\$ 3,600,000.00	\$ 4,221,016.83
4	NB EL Armenia to E/Howard	\$ 6,629,416.90	\$ 6,629,416.90	\$ -	\$ 229,680.00	\$ 6,296,782.72	\$ 11,042,022.80	\$ 631,513.89
5	NB EL Howard to w/Willow	\$ 6,023,154.35	\$ 4,097,776.53	\$ 1,925,377.82	\$ 813,181.93	\$ 4,408,238.08	\$ 2,385,942.58	\$ 5,504,064.33
6	NB GL Willow to N Blvd	\$ 2,019,680.43	\$ -	\$ 2,019,680.43	\$ 1,118,392.92	\$ 14,174,005.46	\$ 378,182.92	\$ 1,159,797.97
7	NB GL N Blvd to River	\$ 3,490,158.65	\$ -	\$ 3,490,158.65	\$ 196,576.00	\$ 321,552.00	\$ 1,319,355.73	\$ 910,183.72
8	SB EL Lois to Himes	\$ 12,558,961.69	\$ 12,558,961.69	\$ -	\$ 1,219,283.28	\$ 1,410,906.52	\$ 2,517,007.57	\$ 385,169.84
9	SB EL Himes to E/Howard	\$ 14,054,112.95	\$ 14,054,112.95	\$ -		\$ 1,282,638.13	\$ 1,198,362.80	\$ 752,370.90
10	SB EL Howard to w/Willow	\$ 2,867,333.77	\$ 905,746.23	\$ 1,961,587.54		\$ 530,313.00	\$ 2,626,823.75	\$ 842,543.49
11	SB EL Willow to N Blvd	\$ 1,820,790.87	\$ -	\$ 1,820,790.87		\$ 3,797,282.79	\$ 805,809.35	\$ 338,397.21
12	SB GL EWillow to WN Blvdr	\$ 1,616,896.90	\$ -	\$ 1,616,896.90			\$ 3,017,963.63	\$ 31,729.00
13	SB EL direct connect DT Tampa	\$ 18,609,863.89	\$ 4,122,438.20	\$ 14,487,425.69			\$ 842,389.33	\$ 1,760,015.87
14	SB GL Ent ramp from DT Tampa	\$ 11,538,996.52	\$ -	\$ 11,538,996.52			\$ 1,532,258.13	\$ 235,259.35
15	NB EL direct connect DT Tampa	\$ 2,626,201.19	\$ -	\$ 2,626,201.19			\$ 280,169.00	
16	NB EL direct connect DT Tampa	\$ 18,692,914.72	\$ -	\$ 18,692,914.72			\$ 529,821.40	
17	NB EL dir conn DT Tampa @Ash	\$ 1,398,590.63	\$ -	\$ 1,398,590.63				
18	N Blvd from Laurel to Main	\$ 717,627.57	\$ -	\$ 717,627.57				
19	Green from NBlvd to River	\$ 591,524.75	\$ -	\$ 591,524.75				
20	NB EL ramps to Himes	\$ 3,692,062.80	\$ 3,692,062.80	\$ -				
21	EL Exit tie-in at Himes	\$ 358,155.63	\$ 358,155.63	\$ -				
22	Himes widen/resurf	\$ 386,578.76	\$ 386,578.76	\$ -				
23	Himes widen/resurf	\$ 531,359.63	\$ 531,359.63	\$ -				
24	Himes widen/resurf	\$ 509,729.22	\$ 509,729.22	\$ -				
25	Trail Sside Cypress-Dale Mabry	\$ 386,786.88	\$ 386,786.88	\$ -				
26	Trail Sside Himes-Habana	\$ 1,081,186.08	\$ 1,081,186.08	\$ -				
27	-	\$ -	\$ -	\$ -				
28	-	\$ -	\$ -	\$ -				
29	-	\$ -	\$ -	\$ -				
30	SigningTollGate WWD sys	\$ 9,499,035.00	\$ 9,499,035.00	\$ -				
31	ITS HA and McD	\$ 4,528,151.59	\$ 4,528,151.59	\$ -				
32	Hardscape Irrigation 5%	\$ 7,658,398.14	\$ 4,232,746.81	\$ 3,425,651.33				
33	Underdeck lightntg	\$ 805,366.56	\$ 503,354.10	\$ 302,012.46				
34	Trail-Greenway DM/Grady-Himes	\$ 5,323,240.83	\$ 5,323,240.83	\$ -				
35								
36	ADD SB Noise wall Willow-River			\$ 628,530.00				
112				THIS PORTION WILL				
113				NOT ADD UP TO LRE				
114				NOTE ABOVE FOR NOISE WALL				
Subtotal	0	\$ 160,826,360.91	\$ 94,210,923.84	\$ 66,615,437.07	\$ 13,412,116.08	\$ 41,770,110.67	\$ 37,234,235.58	\$ 31,953,412.89
MOT	8-10%	\$ 16,082,636.09	\$ 9,421,092.38	\$ 6,661,543.71	\$ 1,072,969.29	\$ 3,341,608.85	\$ 2,978,738.85	\$ 2,556,273.03
Subtotal		\$ 176,908,997.00	\$ 103,632,016.22	\$ 73,276,980.78	\$ 14,485,085.37	\$ 45,111,719.52	\$ 40,212,974.43	\$ 34,509,685.92
MOB	8%	\$ 14,152,719.76	\$ 8,290,561.30	\$ 5,862,158.46	\$ 1,158,806.83	\$ 3,608,937.56	\$ 3,217,037.95	\$ 2,760,774.87
Subtotal		\$ 191,061,716.76	\$ 111,922,577.52	\$ 79,139,139.24	\$ 15,643,892.20	\$ 48,720,657.08	\$ 43,430,012.38	\$ 37,270,460.79
Unkn	15%	\$ 28,659,257.51	\$ 16,788,386.63	\$ 11,870,870.88	\$ 2,346,583.83	\$ 7,308,098.56	\$ 6,514,501.86	\$ 5,590,569.12
Subtotal		\$ 219,720,974.27	\$ 128,710,964.15	\$ 91,010,010.12	\$ 17,990,476.03	\$ 56,028,755.64	\$ 49,944,514.24	\$ 42,861,029.91
DB	7%	\$ 15,380,468.20	\$ 9,009,767.49	\$ 6,370,700.71	\$ 1,259,333.32	\$ 3,922,012.89	\$ 3,496,116.00	\$ -
Subtotal		\$ 235,101,442.47	\$ 137,720,731.64	\$ 97,380,710.83	\$ 19,249,809.35	\$ 59,950,768.53	\$ 53,440,630.24	\$ 42,861,029.91
Init C	\$ 150,000	\$ 150,000.00	\$ 87,868.92	\$ 62,131.08	\$ 150,000.00	\$ 150,000.00	\$ 150,000.00	\$ 150,000.00
Total		\$ 235,251,442.47	\$ 137,808,600.56	\$ 97,442,841.91	\$ 19,399,809.35	\$ 60,100,768.53	\$ 53,590,630.24	\$ 43,011,029.91
Total rounded to \$1m		\$ 235,000,000	\$ 138,000,000	\$ 97,000,000	\$ 19,000,000	\$ 60,000,000	\$ 54,000,000	\$ 43,000,000
LRE number		434045-2-52-01	434045-2-52-01	434045-2-52-01	445056-1-52-01	445056-2-52-01	445057-1-52-01	443770-1-52-01
Ver:date		Ver 28 4/2/20 date	Ver 28 4/2/20 date	Ver 28 4/2/20 date	Ver 6: 2/21/20 date	Ver 3: 3/30/20 date	Ver 3: 2/19/20 date	Ver 8-3/24/20 date
				Unk 15%	Unk 15%	Unk 15%	Unk 15%	Unk 15%
Compiled by J Novotny (American) 4/14/2020								
Extracting DB out of estimate as that is planned to be the design cost - using numbers above								
Total Cost				\$ 97,442,841.91	\$ 19,399,809.35	\$ 60,100,768.53	\$ 53,590,630.24	\$ 43,011,029.91
Design				\$ 6,370,700.71	\$ 1,259,333.32	\$ 3,922,012.89	\$ 3,496,116.00	\$ 3,870,992.69
Remaining (Const)				\$ 91,072,141.20	\$ 18,140,476.03	\$ 56,178,755.64	\$ 50,094,514.24	\$ 39,140,037.22
CEI	7%			\$ 6,820,998.93	\$ 1,357,986.65	\$ 4,207,053.80	\$ 3,751,344.12	\$ 3,010,772.09
Design (rounded to \$1m)				\$ 6,000,000	\$ 1,000,000	\$ 4,000,000	\$ 3,000,000	\$ 4,000,000
Const (rounded to \$1m)				\$ 91,000,000	\$ 18,000,000	\$ 56,000,000	\$ 50,000,000	\$ 39,000,000
CEI (rounded to \$1m)				\$ 7,000,000	\$ 1,000,000	\$ 4,000,000	\$ 4,000,000	\$ 3,000,000
		TOTAL COSTS FOR Segment 2B (columns E-H)	Rounded to \$1m	Detailed	Total for Seg 3A	Total for Seg 3B		
		Design	\$ 18,000,000.00	\$ 18,919,155.61	\$ -	\$ -		
		Construction	\$ 254,000,000.00	\$ 254,625,924.33	\$ -	\$ -		
		CEI	\$ 19,000,000.00	\$ 19,148,155.60	\$ -	\$ -		
		TOTAL	\$ 291,000,000.00	\$ 292,693,235.54	\$ -	\$ -		



Date: 4/2/2020 8:25:34 AM

## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

Project: 434045-2-52-01

Letting Date: 07/2023

Description: I-275 (SR 93) FROM S OF LOIS AVE TO N OF HILLSBOROUGH RIVER

District: 07      County: 10 HILLSBOROUGH      Market Area: 08      Units: English  
 Contract Class: 9      Lump Sum Project: N      Design/Build: Y      Project Length: 3.344 MI  
 Project Manager: PRD-MLG

Version 28-P Project Grand Total

\$235,251,442.47

Description: Section 5 Option D, 2020 WPUC. Creator: Garry Fischbach / AECOM, Checker: Dave Panigrahi / Lochner

Sequence: 1 NDR - New Construction, Divided, Rural

Net Length: 1.069 MI  
5,646 LF

Description: I-275 NB EL from S of Lois Avenue (Sta 7991+78) to N of Himes Avenue (Sta 8055+40)

Special Construct 2-12' Express lanes on median side with 4' buffer (concrete), 12' inside shoulder

Conditions: (asphalt). Includes widening (inside) for all bridges within the limits.

#### EARTHWORK COMPONENT

##### User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 78.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.069
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	115.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

##### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	10.11	AC	\$15,000.00	\$151,650.00
120-6	EMBANKMENT	151,274.05	CY	\$17.00	\$2,571,658.85

Earthwork Component Total

\$2,723,308.85

#### ROADWAY COMPONENT

##### User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	29.00 / 0.00
Structural Spread Rate	0



Friction Course Spread Rate 0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	26,767.86	SY	\$5.00	\$133,839.30
285-702	OPTIONAL BASE,BASE GROUP 02	18,606.39	SY	\$22.50	\$418,643.78
350-3-17	PLAIN CEMENT CONC PAVT, 14"	18,192.36	SY	\$97.00	\$1,764,658.92

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	5,646.00	LF	\$31.85	\$179,825.10
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	650.00	LF	\$30.00	\$19,500.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	4,446.00	LF	\$216.00	\$960,336.00

**Comment:** MEDIAN SIDE

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	144.00	EA	\$3.67	\$528.48
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	3.21	GM	\$4,143.00	\$13,299.03

**Roadway Component Total** \$3,490,630.61

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	14,679.35	LF	\$1.37	\$20,110.71
104-11	FLOATING TURBIDITY BARRIER	267.32	LF	\$9.79	\$2,617.06
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	267.32	LF	\$4.06	\$1,085.32



104-15	SOIL TRACKING PREVENTION DEVICE	2.00 EA	\$2,917.00	\$5,834.00
104-18	INLET PROTECTION SYSTEM	7.00 EA	\$113.29	\$793.03
107-1	LITTER REMOVAL	25.92 AC	\$40.27	\$1,043.80
107-2	MOWING	25.92 AC	\$58.12	\$1,506.47
<b>Shoulder Component Total</b>				<b>\$32,990.39</b>

**MEDIAN COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Total Median Width	39.00
Performance Turf Width	2.67
Total Median Shoulder Width L/R	0.00 / 13.67
Paved Median Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-707	OPTIONAL BASE,BASE GROUP 07	7,107.57 SY	\$18.00	\$127,936.26
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	1,138.59 TN	\$98.00	\$111,581.82
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,200.00 LF	\$265.00	\$318,000.00
570-1-1	PERFORMANCE TURF	1,674.95 SY	\$2.10	\$3,517.40
<b>Median Component Total</b>				<b>\$561,035.48</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	19.25 CY	\$1,347.35	\$25,936.49
425-1-551	INLETS, DT BOT, TYPE E, <10'	7.00 EA	\$5,524.00	\$38,668.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	856.00 LF	\$85.17	\$72,905.52
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	368.00 LF	\$92.51	\$34,043.68
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	320.00 LF	\$140.30	\$44,896.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	43.00 EA	\$1,611.00	\$69,273.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	2,138.60 SY	\$57.00	\$121,900.20
570-1-1	PERFORMANCE TURF	752.79 SY	\$2.10	\$1,580.86

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-891	INLETS, BARRIER WALL, <=10'	23.00 EA	\$6,457.00	\$148,511.00
<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	5,648.00 LF	\$92.51	\$522,496.48



**Comment:** Longitudinal Drainage System**Drainage Component Total**

\$1,080,211.23

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	3.00 AS	\$342.00	\$1,026.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	26.00 AS	\$1,288.00	\$33,488.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	3.00 AS	\$4,159.00	\$12,477.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	7.00 AS	\$6,161.00	\$43,127.00
<b>Signing Component Total</b>				<b>\$90,118.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description****Value**

Multiplier (Number of Poles)

43

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	8,600.00 LF	\$8.43	\$72,498.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	43.00 EA	\$709.00	\$30,487.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	25,800.00 LF	\$2.20	\$56,760.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	43.00 EA	\$6,413.00	\$275,759.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	43.00 EA	\$556.00	\$23,908.00
<b>Subcomponent Total</b>				<b>\$459,412.00</b>
<b>Lighting Component Total</b>				<b>\$459,412.00</b>

**BRIDGES COMPONENT****Bridge 100818****Description****Value**

Estimate Type

SF Estimate

Primary Estimate

YES

Length (LF)

143.00

Width (LF)

34.00

Type

Overpass Widening

Cost Factor

1.00

Structure No.

Removal of Existing Structures area

572.00

Default Cost per SF

\$140.00

Factored Cost per SF

\$140.00

**Final Cost per SF****\$151.45****Basic Bridge Cost****\$680,680.00**

Description

1-275 MAINLINE NB BRIDGE OVER LOIS AVE.



**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	572.00	SF	\$34.00	\$19,448.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100818 Total</b>					<b>\$755,812.70</b>

**Bridge 100821**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	206.00
Width (LF)	46.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	824.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$147.95</b>
<b>Basic Bridge Cost</b>	<b>\$1,326,640.00</b>
Description	I-275 NB BRIDGE OVER CYPRESS ST.

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	824.00	SF	\$34.00	\$28,016.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22	CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50	LB	\$1.16	\$20,750.66
<b>Bridge 100821 Total</b>					<b>\$1,429,988.05</b>

**Bridge 100826**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	227.00
Width (LF)	74.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	908.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$147.21</b>
<b>Basic Bridge Cost</b>	<b>\$2,351,720.00</b>
Description	I-275 MAINLINE NB BRIDGE OVER DALE MABRY

**Bridge Pay Items**



Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	908.00	SF	\$34.00	\$30,872.00
400-2-10	CONC CLASS II, APPROACH SLABS	164.44	CY	\$533.96	\$87,804.38
415-1-9	REINF STEEL- APPROACH SLABS	28,777.00	LB	\$1.16	\$33,381.32
<b>Bridge 100826 Total</b>					<b>\$2,503,777.70</b>

**Bridge 100829**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	164.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	656.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$149.99</b>
<b>Basic Bridge Cost</b>	<b>\$780,640.00</b>
Description	NB I-275 MAINLINE OVER HIMES

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	656.00	SF	\$34.00	\$22,304.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100829 Total</b>					<b>\$858,628.70</b>
<b>Bridges Component Total</b>					<b>\$5,548,207.15</b>

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	90.00
Begin height	20.00
End Height	20.00
Multiplier	8

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	14,400.00	SF	\$29.35	\$422,640.00

**Retaining Wall 2**

Description	Value
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Length	800.00
Begin height	2.00
End Height	22.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,600.00	SF	\$29.35	\$281,760.00

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<b>Retaining Walls Component Total</b>	<b>\$704,400.00</b>
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**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	1,277.00	EA	\$121.00	\$154,517.00

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<b>Miscellaneous Component Total</b>	<b>\$154,517.00</b>
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<b>Sequence 1 Total</b>	<b>\$14,844,830.71</b>
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**Sequence:** 2 NDR - New Construction, Divided, Rural**Net Length:** 0.241 MI  
1,272 LF**Description:** I-275 EL northbound from east of Himes Avenue to east of Macdill Avenue.**Special** Construct 2-12' Express lanes with 4' buffer (concrete), 12' inside shoulder (asphalt). Includes**Conditions:** widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 85.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.241
Top of Structural Course For Begin Section	115.00
Top of Structural Course For End Section	115.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 6 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.48	AC	\$15,000.00	\$37,200.00
120-6	EMBANKMENT	61,430.15	CY	\$17.00	\$1,044,312.55
<b>Earthwork Component Total</b>					<b>\$1,081,512.55</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 29.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	5,653.12	SY	\$5.00	\$28,265.60
285-702	OPTIONAL BASE,BASE GROUP 02	4,191.79	SY	\$22.50	\$94,315.28
350-3-17	PLAIN CEMENT CONC PAVT, 14"	4,098.51	SY	\$97.00	\$397,555.47

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,272.00	LF	\$31.85	\$40,513.20
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	200.00	LF	\$30.00	\$6,000.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,172.00	LF	\$216.00	\$253,152.00

**Comment:** Median Side



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	33.00	EA	\$3.67	\$121.11
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.72	GM	\$4,143.00	\$2,982.96
<b>Roadway Component Total</b>					<b>\$822,905.62</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,307.08	LF	\$1.37	\$4,530.70
104-11	FLOATING TURBIDITY BARRIER	60.22	LF	\$9.79	\$589.55
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	60.22	LF	\$4.06	\$244.49
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	5.84	AC	\$40.27	\$235.18
107-2	MOWING	5.84	AC	\$58.12	\$339.42
<b>Shoulder Component Total</b>					<b>\$9,082.92</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	39.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	0.00 / 11.00
Paved Median Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0



Total Width (T) / 8" Overlap (O)  
Rumble Strips 1/2 No. of Sides

T  
1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,601.25	SY	\$18.00	\$28,822.50
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	256.51	TN	\$98.00	\$25,137.98
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	100.00	LF	\$265.00	\$26,500.00
<b>Median Component Total</b>					<b>\$80,460.48</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.34	CY	\$1,347.35	\$5,847.50
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00	EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	192.00	LF	\$85.17	\$16,352.64
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	88.00	LF	\$92.51	\$8,140.88
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00	LF	\$140.30	\$10,101.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	10.00	EA	\$1,611.00	\$16,110.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	481.80	SY	\$57.00	\$27,462.60
570-1-1	PERFORMANCE TURF	169.59	SY	\$2.10	\$356.14

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00	EA	\$6,457.00	\$32,285.00
	<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,272.00	LF	\$92.51	\$117,672.72
	<b>Comment:</b> Longitudinal Drainage System				
<b>Drainage Component Total</b>					<b>\$245,377.08</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00	AS	\$1,288.00	\$7,728.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	2.00	AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>					<b>\$24,551.00</b>



**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description				Value	
Multiplier (Number of Poles)				10	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,000.00	LF	\$8.43	\$16,860.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$709.00	\$7,090.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00	LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	10.00	EA	\$6,413.00	\$64,130.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00	EA	\$556.00	\$5,560.00
Subcomponent Total					\$106,840.00
Lighting Component Total					\$106,840.00

**BRIDGES COMPONENT****Bridge 100695**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	106.00
Width (LF)	46.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	424.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$155.45</b>
<b>Basic Bridge Cost</b>	<b>\$682,640.00</b>
Description	I-275 MAINLINE NB BRIDGE OVER MACDILL AVE.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	424.00	SF	\$34.00	\$14,416.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22	CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50	LB	\$1.16	\$20,750.66
<b>Bridge 100695 Total</b>					\$772,388.05
<b>Bridges Component Total</b>					\$772,388.05

**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	100.00



Begin height	20.00
End Height	20.00
Multiplier	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	4,000.00	SF	\$29.35	\$117,400.00

<b>Retaining Walls Component Total</b>	<b>\$117,400.00</b>
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**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	276.00	EA	\$121.00	\$33,396.00

<b>Miscellaneous Component Total</b>	<b>\$33,396.00</b>
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<b>Sequence 2 Total</b>	<b>\$3,293,913.70</b>
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**Sequence:** 3 NDR - New Construction, Divided, Rural**Net Length:** 0.269 MI  
1,420 LF**Description:** I-275 EL northbound from east of Macdill Avenue to west of Armenia Avenue**Special** Construct 2-12' Express lanes on median side with 4' buffer (concrete), 12' inside shoulder**Conditions:** (asphalt). Includes widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 105.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.269
Top of Structural Course For Begin Section	115.00
Top of Structural Course For End Section	115.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 6 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	3.42	AC	\$15,000.00	\$51,300.00
120-6	EMBANKMENT	68,567.26	CY	\$17.00	\$1,165,643.42
<b>Earthwork Component Total</b>					<b>\$1,216,943.42</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 29.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,310.19	SY	\$5.00	\$31,550.95
285-702	OPTIONAL BASE,BASE GROUP 02	4,679.00	SY	\$22.50	\$105,277.50
350-3-17	PLAIN CEMENT CONC PAVT, 14"	4,574.89	SY	\$97.00	\$443,764.33

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,420.00	LF	\$31.85	\$45,227.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	200.00	LF	\$30.00	\$6,000.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,420.00	LF	\$216.00	\$306,720.00

**Comment:** Median Side



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	36.00	EA	\$3.67	\$132.12
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.81	GM	\$4,143.00	\$3,355.83
<b>Roadway Component Total</b>					<b>\$942,027.73</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,691.46	LF	\$1.37	\$5,057.30
104-11	FLOATING TURBIDITY BARRIER	67.22	LF	\$9.79	\$658.08
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	67.22	LF	\$4.06	\$272.91
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	6.52	AC	\$40.27	\$262.56
107-2	MOWING	6.52	AC	\$58.12	\$378.94
<b>Shoulder Component Total</b>					<b>\$9,773.37</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	39.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	0.00 / 11.00
Paved Median Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0



Total Width (T) / 8" Overlap (O) T  
 Rumble Strips 1/2 No. of Sides 1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	1,787.36	SY	\$18.00	\$32,172.48
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	286.32	TN	\$98.00	\$28,059.36
<b>Median Component Total</b>					<b>\$60,231.84</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.84	CY	\$1,347.35	\$6,521.17
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00	EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	216.00	LF	\$85.17	\$18,396.72
430-175-124	PIPE CULV, OPT MATL, ROUND, 24" S/CD	96.00	LF	\$92.51	\$8,880.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	80.00	LF	\$140.30	\$11,224.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	11.00	EA	\$1,611.00	\$17,721.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	537.80	SY	\$57.00	\$30,654.60
570-1-1	PERFORMANCE TURF	189.31	SY	\$2.10	\$397.55

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	6.00	EA	\$6,457.00	\$38,742.00
	<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24" S/CD	1,424.00	LF	\$92.51	\$131,734.24
	<b>Comment:</b> Longitudinal Drainage System				
<b>Drainage Component Total</b>					<b>\$275,320.24</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00	AS	\$1,288.00	\$9,016.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	2.00	AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>					<b>\$25,839.00</b>

**LIGHTING COMPONENT**



**Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

10

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F&I, OPEN TRENCH	2,000.00	LF	\$8.43	\$16,860.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$709.00	\$7,090.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00	LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	10.00	EA	\$6,413.00	\$64,130.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00	EA	\$556.00	\$5,560.00
<b>Subcomponent Total</b>					\$106,840.00
<b>Lighting Component Total</b>					\$106,840.00

**MISCELLANEOUS COMPONENT****X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	284.00	EA	\$121.00	\$34,364.00
<b>Miscellaneous Component Total</b>					\$34,364.00

**Sequence 3 Total**

\$2,671,339.60



**Sequence:** 4 NDR - New Construction, Divided, Rural**Net Length:** 0.336 MI  
1,774 LF**Description:** I-275 EL northbound from west of Armenia Avenue to east of Howard Avenue**Special** Construct 2-12' Express lanes and 1-12' added General Lane on median side (concrete) and 12'**Conditions:** inside shoulder (asphalt). Includes widening (inside) for bridges over Howard Avenue and Armenia Avenue.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 100.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.336
Top of Structural Course For Begin Section	118.00
Top of Structural Course For End Section	118.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 6 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	4.07	AC	\$15,000.00	\$61,050.00
120-6	EMBANKMENT	125,369.63	CY	\$17.00	\$2,131,283.71
<b>Earthwork Component Total</b>					<b>\$2,192,333.71</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	0.00 / 41.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	10,250.24	SY	\$5.00	\$51,251.20
285-702	OPTIONAL BASE,BASE GROUP 02	8,212.02	SY	\$22.50	\$184,770.45
350-3-17	PLAIN CEMENT CONC PAVT, 14"	8,081.92	SY	\$97.00	\$783,946.24

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,774.00	LF	\$31.85	\$56,501.90
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	250.00	LF	\$30.00	\$7,500.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,574.00	LF	\$216.00	\$339,984.00
<b>Comment:</b> Median Side					



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	91.00	EA	\$3.67	\$333.97
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	1.34	GM	\$4,143.00	\$5,551.62
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.34	GM	\$1,431.00	\$486.54
<b>Roadway Component Total</b>					<b>\$1,430,325.92</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,612.61	LF	\$1.37	\$6,319.28
104-11	FLOATING TURBIDITY BARRIER	84.00	LF	\$9.79	\$822.36
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	84.00	LF	\$4.06	\$341.04
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	3.00	EA	\$113.29	\$339.87
107-1	LITTER REMOVAL	8.14	AC	\$40.27	\$327.80
107-2	MOWING	8.14	AC	\$58.12	\$473.10
<b>Shoulder Component Total</b>					<b>\$11,540.45</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	39.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	0.00 / 11.00



Paved Median Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2" No. of Sides	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	2,233.37	SY	\$18.00	\$40,200.66
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	357.77	TN	\$98.00	\$35,061.46
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	200.00	LF	\$265.00	\$53,000.00
<b>Median Component Total</b>					<b>\$128,262.12</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	6.05	CY	\$1,347.35	\$8,151.47
425-1-551	INLETS, DT BOT, TYPE E, <10'	3.00	EA	\$5,524.00	\$16,572.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	272.00	LF	\$85.17	\$23,166.24
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	120.00	LF	\$92.51	\$11,101.20
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	104.00	LF	\$140.30	\$14,591.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	14.00	EA	\$1,611.00	\$22,554.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	672.00	SY	\$57.00	\$38,304.00
570-1-1	PERFORMANCE TURF	236.54	SY	\$2.10	\$496.73

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	7.00	EA	\$6,457.00	\$45,199.00
	<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,776.00	LF	\$92.51	\$164,297.76
	<b>Comment:</b> Longitudinal Drainage System				
<b>Drainage Component Total</b>					<b>\$344,433.60</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	9.00	AS	\$1,288.00	\$11,592.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	3.00	AS	\$6,161.00	\$18,483.00



**Signing Component Total**

\$34,576.00

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description****Value**

Multiplier (Number of Poles)

13

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,600.00	LF	\$8.43	\$21,918.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	13.00	EA	\$709.00	\$9,217.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,800.00	LF	\$2.20	\$17,160.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	13.00	EA	\$6,413.00	\$83,369.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	13.00	EA	\$556.00	\$7,228.00
<b>Subcomponent Total</b>					\$138,892.00
<b>Lighting Component Total</b>					\$138,892.00

**BRIDGES COMPONENT****Bridge 100697****Description****Value**

Estimate Type

SF Estimate

Primary Estimate

YES

Length (LF)

148.00

Width (LF)

46.00

Type

Overpass Widening

Cost Factor

1.00

Structure No.

Removal of Existing Structures area

592.00

Default Cost per SF

\$140.00

Factored Cost per SF

\$140.00

**Final Cost per SF****\$151.07****Basic Bridge Cost****\$953,120.00**

Description

I-275 MAINLINE NB BRIDGE OVER ARMENIA AVE.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	592.00	SF	\$34.00	\$20,128.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22	CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50	LB	\$1.16	\$20,750.66
<b>Bridge 100697 Total</b>					\$1,048,580.05

**Bridge 100699****Description****Value**

Estimate Type

SF Estimate

Primary Estimate

YES



Length (LF)	143.00
Width (LF)	46.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	572.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$151.45</b>
<b>Basic Bridge Cost</b>	<b>\$920,920.00</b>
Description	I-275 MAINLINE NB OVER HOWARD AVE.

**Bridge Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	572.00 SF	\$34.00	\$19,448.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22 CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50 LB	\$1.16	\$20,750.66
<b>Bridge 100699 Total</b>				\$1,015,700.05
<b>Bridges Component Total</b>				\$2,064,280.10

**RETAINING WALLS COMPONENT****Retaining Wall 15**

Description	Value
Length	100.00
Begin height	20.00
End Height	20.00
Multiplier	4

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	8,000.00 SF	\$29.35	\$234,800.00
<b>Retaining Walls Component Total</b>				\$234,800.00

**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	413.00 EA	\$121.00	\$49,973.00
<b>Miscellaneous Component Total</b>				\$49,973.00

<b>Sequence 4 Total</b>	<b>\$6,629,416.90</b>
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**Sequence:** 5NUR - New Construction, Undivided, Rural**Net Length:** 0.494 MI  
2,609 LF**Description:** I-275 EL northbound from east of Howard Avenue to west of Willow Avenue**Special** Construct 2-12' Express lanes and 1-12' General Lane(concrete), 12' inside shoulders (asphalt).**Conditions:** Widen bridges for ultimate condition.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 100.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.494
Top of Structural Course For Begin Section	118.00
Top of Structural Course For End Section	112.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	5.99	AC	\$15,000.00	\$89,850.00
120-6	EMBANKMENT	124,111.59	CY	\$17.00	\$2,109,897.03
<b>Earthwork Component Total</b>					<b>\$2,199,747.03</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	3
Roadway Pavement Width L/R	0.00 / 41.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	15,073.34	SY	\$5.00	\$75,366.70
285-702	OPTIONAL BASE,BASE GROUP 02	11,980.41	SY	\$22.50	\$269,559.22
350-3-17	PLAIN CEMENT CONC PAVT, 14"	11,884.75	SY	\$97.00	\$1,152,820.75

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	2,609.00	LF	\$31.85	\$83,096.65
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	350.00	LF	\$30.00	\$10,500.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	2,509.00	LF	\$216.00	\$541,944.00
<b>Comment:</b> Median Side					
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.25	GM	\$25,839.00	\$6,459.75
713-103-131		0.25	GM	\$8,430.00	\$2,107.50



713-103-201	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.25 GM	\$25,889.00	\$6,472.25
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**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	267.00 EA	\$3.67	\$979.89
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	1.48 GM	\$4,143.00	\$6,131.64
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.99 GM	\$1,316.00	\$1,302.84

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Roadway Component Total**

\$2,156,741.20

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 11.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	3,284.25 SY	\$18.00	\$59,116.50
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	526.12 TN	\$98.00	\$51,559.76

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7		100.00 LF	\$265.00	\$26,500.00



CONC BARRIER, W/JUNCT SL, 36  
SS

**Comment:** Median Side

#### Erosion Control

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	6,783.00 LF	\$1.37	\$9,292.71
104-11	FLOATING TURBIDITY BARRIER	123.52 LF	\$9.79	\$1,209.26
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	123.52 LF	\$4.06	\$501.49
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	5.99 AC	\$40.27	\$241.22
107-2	MOWING	5.99 AC	\$58.12	\$348.14

**Shoulder Component Total**

\$151,686.08

#### DRAINAGE COMPONENT

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	8.89 CY	\$1,347.35	\$11,977.94
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	400.00 LF	\$85.17	\$34,068.00
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	88.00 LF	\$140.30	\$12,346.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	20.00 EA	\$1,611.00	\$32,220.00
570-1-1	PERFORMANCE TURF	347.85 SY	\$2.10	\$730.48

##### X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	10.00 EA	\$6,457.00	\$64,570.00
	<b>Comment:</b> Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	2,616.00 LF	\$92.51	\$242,006.16
	<b>Comment:</b> Longitudinal Drainage System			

**Drainage Component Total**

\$397,918.99

#### SIGNING COMPONENT

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	10.00 AS	\$1,288.00	\$12,880.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00

**Signing Component Total**

\$17,381.00



**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

17

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	3,400.00	LF	\$8.43	\$28,662.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	17.00	EA	\$709.00	\$12,053.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	10,200.00	LF	\$2.20	\$22,440.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	17.00	EA	\$6,413.00	\$109,021.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	17.00	EA	\$556.00	\$9,452.00
<b>Subcomponent Total</b>					\$181,628.00
<b>Lighting Component Total</b>					\$181,628.00

**BRIDGES COMPONENT****Bridge 100701****Description****Value**

Estimate Type

SF Estimate

Primary Estimate

YES

Length (LF)

111.00

Width (LF)

46.00

Type

Medium Level, Widen

Cost Factor

1.00

Structure No.

Removal of Existing Structures area

444.00

Default Cost per SF

\$140.00

Factored Cost per SF

\$140.00

**Final Cost per SF****\$154.75****Basic Bridge Cost****\$714,840.00**

Description

I-275 MAINLINE NB OVER ROME AVENUE

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	444.00	SF	\$34.00	\$15,096.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22	CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50	LB	\$1.16	\$20,750.66
<b>Bridge 100701 Total</b>					\$805,268.05
<b>Bridges Component Total</b>					\$805,268.05

**RETAINING WALLS COMPONENT****Retaining Wall 1****Description**

Length

**Value**

100.00



Begin height	20.00
End Height	12.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	1,600.00	SF	\$29.35	\$46,960.00

<b>Retaining Walls Component Total</b>	<b>\$46,960.00</b>
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**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	544.00	EA	\$121.00	\$65,824.00

<b>Miscellaneous Component Total</b>	<b>\$65,824.00</b>
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<b>Sequence 5 Total</b>	<b>\$6,023,154.35</b>
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**Sequence:** 6 NDR - New Construction, Divided, Rural**Net Length:** 0.285 MI  
1,506 LF**Description:** I-275 GL northbound inside widening from west of Willow Avenue to N Boulevard end bridge**Special** Construct 1-12' added General Lane on median side (concrete) and 12' inside shoulder (asphalt).**Conditions:** Includes widening (inside) for bridges over Willow Avenue and N Boulevard.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.285
Top of Structural Course For Begin Section	106.00
Top of Structural Course For End Section	106.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 6 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.04	AC	\$15,000.00	\$15,600.00
120-6	EMBANKMENT	15,083.11	CY	\$17.00	\$256,412.87
<b>Earthwork Component Total</b>					<b>\$272,012.87</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 16.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	4,517.57	SY	\$5.00	\$22,587.85
285-702	OPTIONAL BASE,BASE GROUP 02	2,787.51	SY	\$22.50	\$62,718.98
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,677.08	SY	\$97.00	\$259,676.76

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,506.00	LF	\$31.85	\$47,966.10
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	250.00	LF	\$30.00	\$7,500.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,406.00	LF	\$216.00	\$303,696.00

**Comment:** Median Side



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	1.14	GM	\$4,143.00	\$4,723.02

**Roadway Component Total**

\$708,868.71

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	36.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	0.00 / 11.00
Paved Median Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,895.71	SY	\$18.00	\$34,122.78
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	303.68	TN	\$98.00	\$29,760.64
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	100.00	LF	\$265.00	\$26,500.00

**Median Component Total**

\$90,383.42

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	5.13	CY	\$1,347.35	\$6,911.91
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00	EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	232.00	LF	\$85.17	\$19,759.44
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	104.00	LF	\$92.51	\$9,621.04
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	88.00	LF	\$140.30	\$12,346.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	12.00	EA	\$1,611.00	\$19,332.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	570.40	SY	\$57.00	\$32,512.80
570-1-1	PERFORMANCE TURF	200.78	SY	\$2.10	\$421.64



**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	6.00 EA	\$6,457.00	\$38,742.00
	Comment: Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,512.00 LF	\$92.51	\$139,875.12
	Comment: Longitudinal Drainage System			
	Drainage Component Total			\$290,570.35

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00 AS	\$1,288.00	\$9,016.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				\$25,839.00

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description		Value		
Multiplier (Number of Poles)		12		
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,400.00 LF	\$8.43	\$20,232.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$709.00	\$8,508.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,200.00 LF	\$2.20	\$15,840.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	12.00 EA	\$6,413.00	\$76,956.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	12.00 EA	\$556.00	\$6,672.00
<b>Subcomponent Total</b>				\$128,208.00
<b>Lighting Component Total</b>				\$128,208.00

**BRIDGES COMPONENT****Bridge 100703**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	106.00
Width (LF)	24.00
Type	Overpass Widening
Cost Factor	1.00



Structure No.	
Removal of Existing Structures area	424.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$155.45</b>
<b>Basic Bridge Cost</b>	<b>\$356,160.00</b>
Description	I-275 MAINLINE NB OVER WILLOW AVE.

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	424.00	SF	\$34.00	\$14,416.00
400-2-10	CONC CLASS II, APPROACH SLABS	53.33	CY	\$533.96	\$28,476.09
415-1-9	REINF STEEL- APPROACH SLABS	9,332.75	LB	\$1.16	\$10,825.99
<b>Bridge 100703 Total</b>					\$409,878.08
<b>Bridges Component Total</b>					\$409,878.08

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	80.00
Begin height	20.00
End Height	20.00
Multiplier	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	3,200.00	SF	\$29.35	\$93,920.00
<b>Retaining Walls Component Total</b>					\$93,920.00

<b>Sequence 6 Total</b>	<b>\$2,019,680.43</b>
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**Sequence:** 7 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.235 MI  
1,242 LF**Description:** I-275 GL northbound outside widening from west of N. Boulevard to Hillsborough River**Special** Outside asphalt widening to accommodate auxiliary exit lane to downtown**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.234
Top of Structural Course For Begin Section	120.00
Top of Structural Course For End Section	120.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	0 to 1 / 0 to 1
Existing Median Slope L/R	0 to 1 / 0 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.71	AC	\$15,000.00	\$10,650.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	18,865.93	CY	\$22.00	\$415,050.46

**Earthwork Component Total****\$425,700.46****ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	6
Existing Roadway Pavement Width L/R	0.00 / 60.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 12.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	440
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,035.65	SY	\$5.00	\$15,178.25
285-709	OPTIONAL BASE, BASE GROUP 09	1,701.34	SY	\$18.00	\$30,624.12
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	8,279.04	SY	\$3.96	\$32,785.00
334-1-14		910.69	TN	\$98.00	\$89,247.62



	SUPERPAVE ASPHALTIC CONC, TRAFFIC D			
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	364.28 TN	\$98.00	\$35,699.44
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	331.16 TN	\$135.00	\$44,706.60
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	66.23 TN	\$135.00	\$8,941.05

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	159.00	EA	\$3.67	\$583.53
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.88	GM	\$1,064.00	\$2,000.32
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.88	GM	\$442.00	\$830.96

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Roadway Component Total**

\$260,596.89

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 10.00
Structural Spread Rate	330
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	O
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,425.37	SY	\$18.00	\$25,656.66



334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	227.67 TN	\$98.00	\$22,311.66
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	3.64 TN	\$135.00	\$491.40
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.24 GM	\$1,355.00	\$325.20

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,856.27 LF	\$1.37	\$3,913.09
104-11	FLOATING TURBIDITY BARRIER	23.52 LF	\$9.79	\$230.26
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	23.52 LF	\$4.06	\$95.49
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.71 AC	\$40.27	\$68.86
107-2	MOWING	1.71 AC	\$58.12	\$99.39
<b>Shoulder Component Total</b>				<b>\$56,109.01</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.23 CY	\$1,347.35	\$5,699.29
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	192.00 LF	\$85.17	\$16,352.64
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	10.00 EA	\$1,611.00	\$16,110.00
570-1-1	PERFORMANCE TURF	165.58 SY	\$2.10	\$347.72
<b>Drainage Component Total</b>				<b>\$41,876.85</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00 AS	\$1,288.00	\$7,728.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	6.00 AS	\$26.39	\$158.34
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$13,258.34</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description	Value
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Multiplier (Number of Poles)

10

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,000.00	LF	\$8.43	\$16,860.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$709.00	\$7,090.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00	LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	10.00	EA	\$6,413.00	\$64,130.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00	EA	\$556.00	\$5,560.00
<b>Subcomponent Total</b>					\$106,840.00
<b>Lighting Component Total</b>					\$106,840.00

**BRIDGES COMPONENT****Bridge 100705**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	143.00
Width (LF)	25.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	1,144.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$331.23</b>
<b>Basic Bridge Cost</b>	<b>\$500,500.00</b>
Description	I-275 MAINLINE NB OVER N BOULEVARD (INSIDE AND OUTSIDE WIDENING)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,144.00	SF	\$34.00	\$38,896.00
400-2-10	CONC CLASS II, APPROACH SLABS	55.56	CY	\$533.96	\$29,666.82
415-1-9	REINF STEEL- APPROACH SLABS	9,723.00	LB	\$1.16	\$11,278.68

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL	143.00	LF	\$299.30	\$42,799.90
	<b>Comment:</b> RIGHT SIDE OF ROADWAY				
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	1,242.00	LF	\$483.00	\$599,886.00
	<b>Comment:</b> RIGHT SIDE OF ROADWAY				

**Bridge 100705 Total**

\$1,223,027.40

**Bridge 100136**



Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	215.00
Width (LF)	13.50
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	860.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$169.79</b>
<b>Basic Bridge Cost</b>	<b>\$406,350.00</b>
Description	I-275 NB OVER HILLSBOROUGH RIVER. WIDENING OF WESTERN APPROACH WEST OF GREEN STREET UNDERPASS THAT REMAINS ABOVE LAND

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	860.00	SF	\$34.00	\$29,240.00
400-2-10	CONC CLASS II, APPROACH SLABS	30.00	CY	\$533.96	\$16,018.80
415-1-9	REINF STEEL- APPROACH SLABS	5,250.00	LB	\$1.16	\$6,090.00

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL	215.00	LF	\$299.30	\$64,349.50
	<b>Comment:</b> RIGHT SIDE				

**Bridge 100136 Total** \$522,048.30

**Bridges Component Total** \$1,745,075.70

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	1,302.00
Begin height	22.00
End Height	22.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	28,644.00	SF	\$29.35	\$840,701.40

**Retaining Walls Component Total** \$840,701.40

**Sequence 7 Total** \$3,490,158.65



**Sequence:** 8 NDR - New Construction, Divided, Rural**Net Length:** 1.065 MI  
5,624 LF**Description:** I-275 SB EL from S of Lois Avenue (Sta 6991+88) to N of Himes Avenue (Sta 7055+42)**Special** Construct 2-12' Express lanes on median side with 4' buffer (concrete), 12' inside shoulder**Conditions:** (asphalt). Includes widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	78.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.065
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	115.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	10.07	AC	\$15,000.00	\$151,050.00
120-6	EMBANKMENT	147,736.04	CY	\$17.00	\$2,511,512.68
<b>Earthwork Component Total</b>					<b>\$2,662,562.68</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	29.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	26,665.22	SY	\$5.00	\$133,326.10
285-702	OPTIONAL BASE,BASE GROUP 02	18,535.05	SY	\$22.50	\$417,038.62
350-3-17	PLAIN CEMENT CONC PAVT, 14"	18,122.60	SY	\$97.00	\$1,757,892.20

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	5,624.00	LF	\$31.85	\$179,124.40
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	650.00	LF	\$30.00	\$19,500.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	Y



Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	144.00	EA	\$3.67	\$528.48
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	3.20	GM	\$4,143.00	\$13,257.60
<b>Roadway Component Total</b>					<b>\$2,520,667.41</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	14,623.07	LF	\$1.37	\$20,033.61
104-11	FLOATING TURBIDITY BARRIER	266.30	LF	\$9.79	\$2,607.08
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	266.30	LF	\$4.06	\$1,081.18
104-15	SOIL TRACKING PREVENTION DEVICE	2.00	EA	\$2,917.00	\$5,834.00
104-18	INLET PROTECTION SYSTEM	7.00	EA	\$113.29	\$793.03
107-1	LITTER REMOVAL	25.82	AC	\$40.27	\$1,039.77
107-2	MOWING	25.82	AC	\$58.12	\$1,500.66
<b>Shoulder Component Total</b>					<b>\$32,889.33</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	39.00
Performance Turf Width	2.67
Total Median Shoulder Width L/R	13.67 / 0.00
Paved Median Shoulder Width L/R	11.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	7,080.31 SY	\$18.00	\$127,445.58
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	1,134.22 TN	\$98.00	\$111,153.56
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,200.00 LF	\$265.00	\$318,000.00
570-1-1	PERFORMANCE TURF	1,668.53 SY	\$2.10	\$3,503.91
<b>Median Component Total</b>				\$560,103.05

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	19.17 CY	\$1,347.35	\$25,828.70
425-1-551	INLETS, DT BOT, TYPE E, <10'	7.00 EA	\$5,524.00	\$38,668.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	856.00 LF	\$85.17	\$72,905.52
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	368.00 LF	\$92.51	\$34,043.68
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	320.00 LF	\$140.30	\$44,896.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	43.00 EA	\$1,611.00	\$69,273.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	2,130.40 SY	\$57.00	\$121,432.80
570-1-1	PERFORMANCE TURF	749.90 SY	\$2.10	\$1,574.79

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	3.00 EA	\$6,457.00	\$19,371.00
	<b>Comment:</b> Longitudinal Drainage System			
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	800.00 LF	\$85.17	\$68,136.00
	<b>Comment:</b> Longitudinal Drainage System			
<b>Drainage Component Total</b>				\$496,129.49

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	3.00 AS	\$342.00	\$1,026.00
700-1-12	SINGLE POST SIGN, F&I GM, 12- 20 SF	26.00 AS	\$1,288.00	\$33,488.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	3.00 AS	\$4,159.00	\$12,477.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	7.00 AS	\$6,161.00	\$43,127.00
<b>Signing Component Total</b>				\$90,118.00

**LIGHTING COMPONENT**



**Rural Lighting Subcomponent**

Description				Value	
Multiplier (Number of Poles)				43	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,600.00	LF	\$8.43	\$72,498.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	43.00	EA	\$709.00	\$30,487.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	25,800.00	LF	\$2.20	\$56,760.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	43.00	EA	\$6,413.00	\$275,759.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	43.00	EA	\$556.00	\$23,908.00
Subcomponent Total					\$459,412.00
Lighting Component Total					\$459,412.00

**BRIDGES COMPONENT****Bridge 100817**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	148.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	592.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$151.07</b>
<b>Basic Bridge Cost</b>	<b>\$704,480.00</b>
Description	I-275 MAINLINE SB BRIDGE OVER LOIS AVE.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	592.00	SF	\$34.00	\$20,128.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100817 Total</b>					<b>\$780,292.70</b>

**Bridge 100820**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	217.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	



Removal of Existing Structures area	868.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$147.55</b>
<b>Basic Bridge Cost</b>	<b>\$1,032,920.00</b>
Description	I-275 MAINLINE SB BRIDGE OVER CYPRESS ST.

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	868.00	SF	\$34.00	\$29,512.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100820 Total</b>					<b>\$1,118,116.70</b>

**Bridge 100825**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	222.00
Width (LF)	59.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	888.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$147.38</b>
<b>Basic Bridge Cost</b>	<b>\$1,833,720.00</b>
Description	I-275 MAINLINE SB BRIDGE OVER DALE MABRY

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	888.00	SF	\$34.00	\$30,192.00
400-2-10	CONC CLASS II, APPROACH SLABS	131.11	CY	\$533.96	\$70,007.50
415-1-9	REINF STEEL- APPROACH SLABS	22,944.25	LB	\$1.16	\$26,615.33
<b>Bridge 100825 Total</b>					<b>\$1,960,534.83</b>

**Bridge 100828**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	164.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	656.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00



<b>Final Cost per SF</b>	<b>\$149.99</b>
<b>Basic Bridge Cost</b>	<b>\$780,640.00</b>
Description	I-275 SB OVER HIMES AVENUE

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	656.00	SF	\$34.00	\$22,304.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100828 Total</b>					<b>\$858,628.70</b>
<b>Bridges Component Total</b>					<b>\$4,717,572.93</b>

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	90.00
Begin height	20.00
End Height	20.00
Multiplier	8

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	14,400.00	SF	\$29.35	\$422,640.00

**Retaining Wall 2**

Description	Value
Length	800.00
Begin height	2.00
End Height	22.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,600.00	SF	\$29.35	\$281,760.00
<b>Retaining Walls Component Total</b>					<b>\$704,400.00</b>

**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
534-73	PERIMETER WALL <b>Comment:</b> 240'L X 8'H wall from west of Church St to east of Church St on N side of I-275 adjacent to SB entrance ramp	1,920.00	SF	\$73.89	\$141,868.80
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	1,278.00	EA	\$121.00	\$154,638.00



**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	620.00	LF	\$30.00	\$18,600.00
	<b>Comment:</b> Omega Fence at Bridge Overpasses: Lois (190'), Cypress (240'), Dale Mabry (190')				

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<b>Miscellaneous Component Total</b>	\$315,106.80
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<b>Sequence 8 Total</b>	\$12,558,961.69
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**Sequence:** 9NDR - New Construction, Divided, Rural**Net Length:** 1.075 MI  
5,676 LF**Description:** I-275 EL southbound from east of Himes Avenue to east of Howard Avenue**Special** Construct 2-12' Express lanes and 1-12' General Use Lane on median side with 4' buffer**Conditions:** (concrete), 12' inside shoulder (asphalt). Includes widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	95.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	1.075
Top of Structural Course For Begin Section	115.00
Top of Structural Course For End Section	115.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	12.38	AC	\$15,000.00	\$185,700.00
120-6	EMBANKMENT	299,270.25	CY	\$17.00	\$5,087,594.25
<b>Earthwork Component Total</b>					<b>\$5,273,294.25</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	3
Roadway Pavement Width L/R	41.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	32,794.67	SY	\$5.00	\$163,973.35
285-702	OPTIONAL BASE,BASE GROUP 02	26,273.57	SY	\$22.50	\$591,155.32
350-3-17	PLAIN CEMENT CONC PAVT, 14"	25,857.33	SY	\$97.00	\$2,508,161.01

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	5,676.00	LF	\$31.85	\$180,780.60
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	650.00	LF	\$30.00	\$19,500.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	Y



Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	290.00	EA	\$3.67	\$1,064.30
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	1.08	GM	\$1,554.00	\$1,678.32
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	3.22	GM	\$4,143.00	\$13,340.46
<b>Roadway Component Total</b>					<b>\$3,479,653.37</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	14,757.60	LF	\$1.37	\$20,217.91
104-11	FLOATING TURBIDITY BARRIER	268.75	LF	\$9.79	\$2,631.06
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	268.75	LF	\$4.06	\$1,091.12
104-15	SOIL TRACKING PREVENTION DEVICE	2.00	EA	\$2,917.00	\$5,834.00
104-18	INLET PROTECTION SYSTEM	7.00	EA	\$113.29	\$793.03
107-1	LITTER REMOVAL	26.06	AC	\$40.27	\$1,049.44
107-2	MOWING	26.06	AC	\$58.12	\$1,514.61
<b>Shoulder Component Total</b>					<b>\$33,131.18</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	36.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	11.00 / 0.00
Paved Median Shoulder Width L/R	11.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T



Rumble Strips  $\frac{1}{2}$ No. of Sides

0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	7,145.45 SY	\$18.00	\$128,618.10
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	1,144.66 TN	\$98.00	\$112,176.68
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	300.00 LF	\$265.00	\$79,500.00
<b>Median Component Total</b>				<b>\$320,294.78</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	19.35 CY	\$1,347.35	\$26,071.22
425-1-551	INLETS, DT BOT, TYPE E, <10'	7.00 EA	\$5,524.00	\$38,668.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	864.00 LF	\$85.17	\$73,586.88
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	376.00 LF	\$92.51	\$34,783.76
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	320.00 LF	\$140.30	\$44,896.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	43.00 EA	\$1,611.00	\$69,273.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	2,150.00 SY	\$57.00	\$122,550.00
570-1-1	PERFORMANCE TURF	756.80 SY	\$2.10	\$1,589.28
<b>Drainage Component Total</b>				<b>\$411,418.14</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	3.00 AS	\$342.00	\$1,026.00
700-1-12	SINGLE POST SIGN, F&I GM, 12- 20 SF	26.00 AS	\$1,288.00	\$33,488.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	3.00 AS	\$4,159.00	\$12,477.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	7.00 AS	\$6,161.00	\$43,127.00
<b>Signing Component Total</b>				<b>\$90,118.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

41

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,200.00 LF	\$8.43	\$69,126.00
635-2-11		41.00 EA	\$709.00	\$29,069.00



	PULL & SPLICE BOX, F&I, 13" x 24"			
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	24,600.00 LF	\$2.20	\$54,120.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	41.00 EA	\$6,413.00	\$262,933.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	41.00 EA	\$556.00	\$22,796.00
	<b>Subcomponent Total</b>			\$438,044.00
	<b>Lighting Component Total</b>			\$438,044.00

**BRIDGES COMPONENT****Bridge 100696**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	106.00
Width (LF)	46.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	424.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$155.45</b>
<b>Basic Bridge Cost</b>	<b>\$682,640.00</b>
Description	I-275 SB OVER MACDILL AVENUE

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	424.00	SF	\$34.00	\$14,416.00
400-2-10	CONC CLASS II, APPROACH SLABS	102.22	CY	\$533.96	\$54,581.39
415-1-9	REINF STEEL- APPROACH SLABS	17,888.50	LB	\$1.16	\$20,750.66
	<b>Bridge 100696 Total</b>				\$772,388.05

**Bridge 100698**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	148.00
Width (LF)	59.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	592.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$151.07</b>
<b>Basic Bridge Cost</b>	<b>\$1,222,480.00</b>
Description	I-275 SB OVER ARMENIA AVENUE



**Bridge Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	592.00 SF	\$34.00	\$20,128.00
400-2-10	CONC CLASS II, APPROACH SLABS	131.11 CY	\$533.96	\$70,007.50
415-1-9	REINF STEEL- APPROACH SLABS	22,944.25 LB	\$1.16	\$26,615.33
<b>Bridge 100698 Total</b>				<b>\$1,339,230.83</b>

**Bridge 100700**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	143.00
Width (LF)	62.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	572.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$151.45</b>
<b>Basic Bridge Cost</b>	<b>\$1,241,240.00</b>
Description	I-275 SB OVER HOWARD AVENUE

**Bridge Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	572.00 SF	\$34.00	\$19,448.00
400-2-10	CONC CLASS II, APPROACH SLABS	137.78 CY	\$533.96	\$73,569.01
415-1-9	REINF STEEL- APPROACH SLABS	24,111.50 LB	\$1.16	\$27,969.34
<b>Bridge 100700 Total</b>				<b>\$1,362,226.35</b>
<b>Bridges Component Total</b>				<b>\$3,473,845.23</b>

**RETAINING WALLS COMPONENT****Retaining Wall 5**

Description	Value
Length	110.00
Begin height	20.00
End Height	20.00
Multiplier	6

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	13,200.00 SF	\$29.35	\$387,420.00
<b>Retaining Walls Component Total</b>				<b>\$387,420.00</b>



**MISCELLANEOUS COMPONENT****X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	1,214.00	EA	\$121.00	\$146,894.00

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<b>Miscellaneous Component Total</b>					\$146,894.00
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<b>Sequence 9 Total</b>					\$14,054,112.95
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**Sequence:** 10 NDR - New Construction, Divided, Rural**Net Length:** 0.315 MI  
1,662 LF**Description:** I-275 EL southbound from east of Howard Avenue to west of Willow Avenue**Special** Construct 1-12' Express lane on median side with 4' buffer (concrete) and widen shoulder to**Conditions:** accommodate 1-12' General lane for lane continuity, 12' inside shoulder (asphalt). Includes widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	60.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.315
Top of Structural Course For Begin Section	112.00
Top of Structural Course For End Section	112.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.29	AC	\$15,000.00	\$34,350.00
120-6	EMBANKMENT	55,945.74	CY	\$17.00	\$951,077.58
<b>Earthwork Component Total</b>					<b>\$985,427.58</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	29.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	7,387.31	SY	\$5.00	\$36,936.55
285-702	OPTIONAL BASE,BASE GROUP 02	5,477.69	SY	\$22.50	\$123,248.02
350-3-17	PLAIN CEMENT CONC PAVT, 14"	5,355.80	SY	\$97.00	\$519,512.60

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,662.00	LF	\$31.85	\$52,934.70
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	250.00	LF	\$30.00	\$7,500.00

**Pavement Marking Subcomponent**

Description	Value
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Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	42.00 EA	\$3.67	\$154.14
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.94 GM	\$4,143.00	\$3,894.42
<b>Roadway Component Total</b>				<b>\$744,180.44</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,321.57 LF	\$1.37	\$5,920.55
104-11	FLOATING TURBIDITY BARRIER	78.70 LF	\$9.79	\$770.47
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	78.70 LF	\$4.06	\$319.52
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	7.63 AC	\$40.27	\$307.26
107-2	MOWING	7.63 AC	\$58.12	\$443.46
<b>Shoulder Component Total</b>				<b>\$10,904.84</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	36.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	11.00 / 0.00
Paved Median Shoulder Width L/R	11.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	1



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,092.45 SY	\$18.00	\$37,664.10
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	335.20 TN	\$98.00	\$32,849.60
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	100.00 LF	\$265.00	\$26,500.00
<b>Median Component Total</b>				<b>\$97,013.70</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	5.67 CY	\$1,347.35	\$7,639.47
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00 EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	256.00 LF	\$85.17	\$21,803.52
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	112.00 LF	\$92.51	\$10,361.12
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	96.00 LF	\$140.30	\$13,468.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	13.00 EA	\$1,611.00	\$20,943.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	629.60 SY	\$57.00	\$35,887.20
570-1-1	PERFORMANCE TURF	221.62 SY	\$2.10	\$465.40
<b>Drainage Component Total</b>				<b>\$121,616.51</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	8.00 AS	\$1,288.00	\$10,304.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				<b>\$27,127.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

12

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,400.00 LF	\$8.43	\$20,232.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$709.00	\$8,508.00



715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,200.00 LF	\$2.20	\$15,840.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	12.00 EA	\$6,413.00	\$76,956.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	12.00 EA	\$556.00	\$6,672.00
<b>Subcomponent Total</b>				\$128,208.00
<b>Lighting Component Total</b>				\$128,208.00

**BRIDGES COMPONENT****Bridge 100702**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	111.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	444.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$154.75</b>
<b>Basic Bridge Cost</b>	<b>\$528,360.00</b>
Description	I-275 SB OVER ROME AVENUE

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	444.00	SF	\$34.00	\$15,096.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56	CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00	LB	\$1.16	\$15,338.68
<b>Bridge 100702 Total</b>					\$599,140.70
<b>Bridges Component Total</b>					\$599,140.70

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	90.00
Begin height	20.00
End Height	20.00
Multiplier	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	3,600.00	SF	\$29.35	\$105,660.00
<b>Retaining Walls Component Total</b>					\$105,660.00



MISCELLANEOUS COMPONENT					
X-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	355.00	EA	\$121.00	\$42,955.00
EX-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
550-10-804	FENCING, OMEGA, WIRE WORKS <b>Comment:</b> Omega Fence at Bridge Overpasses: Rome (170')	170.00	LF	\$30.00	\$5,100.00
Miscellaneous Component Total					\$48,055.00
Sequence 10 Total					\$2,867,333.77



**Sequence:** 11 NDR - New Construction, Divided, Rural**Net Length:** 0.231 MI  
1,218 LF**Description:** I-275 EL Southbound from West of Willow Avenue to N Boulevard**Special** Construct 1-12' Express lane on median side with 4' buffer (asphalt) and outside widening for**Conditions:** lane continuity, 12' inside shoulder (asphalt). Includes widening (inside) for all bridges within the limits.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	78.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.230
Top of Structural Course For Begin Section	108.00
Top of Structural Course For End Section	108.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.18	AC	\$15,000.00	\$32,700.00
120-6	EMBANKMENT	17,767.57	CY	\$17.00	\$302,048.69
<b>Earthwork Component Total</b>					<b>\$334,748.69</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	17.00 / 0.00
Structural Spread Rate	440
Friction Course Spread Rate	80

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,924.98	SY	\$5.00	\$19,624.90
285-709	OPTIONAL BASE,BASE GROUP 09	2,390.18	SY	\$18.00	\$43,023.24
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	506.19	TN	\$98.00	\$49,606.62
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	92.03	TN	\$135.00	\$12,424.05

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
334-1-54	SUPERPAVE ASPH CONC, TRAF D, PG76-22	253.10	TN	\$115.00	\$29,106.50
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,068.00	LF	\$216.00	\$230,688.00



**Comment:** MEDIAN SIDE**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.38	GM	\$1,064.00	\$1,468.32

**Roadway Component Total**

\$385,941.63

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	150.00	LF	\$265.00	\$39,750.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,167.05	LF	\$1.37	\$4,338.86
104-11	FLOATING TURBIDITY BARRIER	57.68	LF	\$9.79	\$564.69
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	57.68	LF	\$4.06	\$234.18
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	5.59	AC	\$40.27	\$225.11
107-2	MOWING	5.59	AC	\$58.12	\$324.89

**Shoulder Component Total**

\$48,581.31

**MEDIAN COMPONENT****User Input Data**

Description	Value
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Total Median Width	30.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	12.00 / 0.00
Paved Median Shoulder Width L/R	12.00 / 0.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2" No. of Sides	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,668.79 SY	\$18.00	\$30,038.22
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	267.98 TN	\$98.00	\$26,262.04
<b>Median Component Total</b>				<b>\$56,300.26</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.15 CY	\$1,347.35	\$5,591.50
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00 EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	184.00 LF	\$85.17	\$15,671.28
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00 LF	\$92.51	\$7,400.80
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$140.30	\$10,101.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	10.00 EA	\$1,611.00	\$16,110.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	461.40 SY	\$57.00	\$26,299.80
570-1-1	PERFORMANCE TURF	162.41 SY	\$2.10	\$341.06

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00 EA	\$6,457.00	\$32,285.00
<b>Comment: LONGITUDINAL DRAINAGE SYSTEM</b>				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,224.00 LF	\$92.51	\$113,232.24
<b>Comment: LONGITUDINAL DRAINAGE SYSTEM</b>				
<b>Drainage Component Total</b>				<b>\$238,081.28</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00 AS	\$1,288.00	\$7,728.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15		2.00 AS	\$6,161.00	\$12,322.00



MULTI- POST SIGN, F&I GM, 51-  
100 SF

**Signing Component Total**

\$24,551.00

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>		<b>Value</b>	
Multiplier (Number of Poles)		9	
<b>Pay Items</b>			
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,800.00 LF	\$8.43
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	9.00 EA	\$709.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	5,400.00 LF	\$2.20
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	9.00 EA	\$6,413.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	9.00 EA	\$556.00
<b>Subcomponent Total</b>			<b>\$96,156.00</b>
<b>Lighting Component Total</b>			<b>\$96,156.00</b>

**BRIDGES COMPONENT****Bridge 100704**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	80.00
Width (LF)	34.00
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	320.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$160.47</b>
<b>Basic Bridge Cost</b>	<b>\$380,800.00</b>
Description	I-275 SB OVER WILLOW AVENUE.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	320.00 SF	\$34.00	\$10,880.00
400-2-10	CONC CLASS II, APPROACH SLABS	75.56 CY	\$533.96	\$40,346.02
415-1-9	REINF STEEL- APPROACH SLABS	13,223.00 LB	\$1.16	\$15,338.68
<b>Bridge 100704 Total</b>				<b>\$447,364.70</b>
<b>Bridges Component Total</b>				<b>\$447,364.70</b>



**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	80.00
Begin height	20.00
End Height	20.00
Multiplier	3

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	4,800.00	SF	\$29.35	\$140,880.00

<b>Retaining Walls Component Total</b>	<b>\$140,880.00</b>
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**MISCELLANEOUS COMPONENT****X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
705-11-5	DELINEATOR, FLEX HIGH PERF 36"- EXP MARK	366.00	EA	\$121.00	\$44,286.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	130.00	LF	\$30.00	\$3,900.00
	<b>Comment:</b> Omega Fence at Bridge Overpasses: Willow (130')				

<b>Miscellaneous Component Total</b>	<b>\$48,186.00</b>
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<b>Sequence 11 Total</b>	<b>\$1,820,790.87</b>
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**Sequence:** 12 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.220 MI  
1,159 LF**Description:** I-275 GL southbound outside widening from East of Willow Avenue to West of North Blvd**Special** Outside concrete widening to accommodate entrance ramp lanes from downtown**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 29.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.220
Top of Structural Course For Begin Section	112.00
Top of Structural Course For End Section	112.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	0 to 1 / 0 to 1
Existing Median Slope L/R	0 to 1 / 0 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.77	AC	\$15,000.00	\$11,550.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	11,954.58	CY	\$22.00	\$263,000.76

**Earthwork Component Total**

\$274,550.76

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	6
Existing Roadway Pavement Width L/R	60.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 14.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	440
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,348.11	SY	\$5.00	\$16,740.55
285-709	OPTIONAL BASE,BASE GROUP 09	1,845.32	SY	\$18.00	\$33,215.76
327-70-15	MILLING EXIST ASPH PAVT,2 3/4" AVG DEPTH	7,726.40	SY	\$3.27	\$25,265.33
334-1-14		396.62	TN	\$98.00	\$38,868.76



	SUPERPAVE ASPHALTIC CONC, TRAFFIC D			
334-1-54	SUPERPAVE ASPH CONC, TRAF D, PG76-22	849.90 TN	\$115.00	\$97,738.50
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	309.06 TN	\$135.00	\$41,723.10
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	72.11 TN	\$135.00	\$9,734.85

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
334-1-54	SUPERPAVE ASPH CONC, TRAF D, PG76-22	198.31 TN	\$115.00	\$22,805.65

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	148.00 EA	\$3.67	\$543.16
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.76 GM	\$1,064.00	\$1,872.64
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.76 GM	\$442.00	\$777.92

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Roadway Component Total**

\$289,286.22

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 12.00
Structural Spread Rate	330
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	O



Rumble Strips  $\frac{1}{2}$ No. of Sides

1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,587.78	SY	\$18.00	\$28,580.04
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	254.97	TN	\$98.00	\$24,987.06
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.22	GM	\$1,355.00	\$298.10

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,159.00	LF	\$265.00	\$307,135.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,665.61	LF	\$1.37	\$3,651.89
104-11	FLOATING TURBIDITY BARRIER	21.95	LF	\$9.79	\$214.89
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.95	LF	\$4.06	\$89.12
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.60	AC	\$40.27	\$64.43
107-2	MOWING	1.60	AC	\$58.12	\$92.99

**Shoulder Component Total**

\$368,030.52

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	3.95	CY	\$1,347.35	\$5,322.03
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	176.00	LF	\$85.17	\$14,989.92
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00	LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	9.00	EA	\$1,611.00	\$14,499.00
570-1-1	PERFORMANCE TURF	154.53	SY	\$2.10	\$324.51

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00	EA	\$6,457.00	\$32,285.00
	<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,160.00	LF	\$92.51	\$107,311.60
	<b>Comment:</b> Longitudinal Drainage System				

**Drainage Component Total**

\$178,099.26

**SIGNING COMPONENT****Pay Items**



Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00 AS	\$1,288.00	\$7,728.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	6.00 AS	\$26.39	\$158.34
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$13,258.34</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

8

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,600.00 LF	\$8.43	\$13,488.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00 EA	\$709.00	\$5,672.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00 LF	\$2.20	\$10,560.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	8.00 EA	\$6,413.00	\$51,304.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	8.00 EA	\$556.00	\$4,448.00
<b>Subcomponent Total</b>				<b>\$85,472.00</b>
<b>Lighting Component Total</b>				<b>\$85,472.00</b>

**RETAINING WALLS COMPONENT****Retaining Wall 1****Description****Value**

Length	1,159.00
Begin height	12.00
End Height	12.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	13,908.00 SF	\$29.35	\$408,199.80
<b>Retaining Walls Component Total</b>				<b>\$408,199.80</b>

<b>Sequence 12 Total</b>	<b>\$1,616,896.90</b>
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**Sequence:** 13 NDR - New Construction, Divided, Rural**Net Length:** 0.449 MI  
2,370 LF**Description:** I-275 EL southbound direct connect from downtown Tampa entrance ramp**Special** Includes 1-15' ramp lane with flyover bridge structure**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	40.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.449
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	130.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.18 AC	\$15,000.00	\$32,700.00
120-6	EMBANKMENT	33,612.42 CY	\$17.00	\$571,411.14
<b>Earthwork Component Total</b>				<b>\$604,111.14</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	16.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	7,110.58 SY	\$5.00	\$35,552.90
285-702	OPTIONAL BASE,BASE GROUP 02	4,387.49 SY	\$22.50	\$98,718.52
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	4,213.67 SY	\$92.00	\$387,657.64

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	2,370.00 LF	\$31.85	\$75,484.50
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	300.00 LF	\$30.00	\$9,000.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
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Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.90 GM	\$4,328.00	\$3,895.20
<b>Roadway Component Total</b>				<b>\$610,308.77</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	5.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,403.68 SY	\$18.00	\$25,266.24
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	181.06 TN	\$98.00	\$17,743.88

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	2,400.00 LF	\$265.00	\$636,000.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	6,162.50 LF	\$1.37	\$8,442.62
104-11	FLOATING TURBIDITY BARRIER	112.22 LF	\$9.79	\$1,098.63
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	112.22 LF	\$4.06	\$455.61
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	3.00 EA	\$113.29	\$339.87
107-1	LITTER REMOVAL	10.88 AC	\$40.27	\$438.14
107-2	MOWING	10.88 AC	\$58.12	\$632.35
<b>Shoulder Component Total</b>				<b>\$693,334.35</b>

**MEDIAN COMPONENT****User Input Data**



Description	Value
Total Median Width	6.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	6.00 / 0.00
Paved Median Shoulder Width L/R	6.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	1,667.04 SY	\$18.00	\$30,006.72
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	217.27 TN	\$98.00	\$21,292.46
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	2,000.00 LF	\$265.00	\$530,000.00
<b>Median Component Total</b>				<b>\$581,299.18</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	8.08 CY	\$1,347.35	\$10,886.59
425-1-551	INLETS, DT BOT, TYPE E, <10'	3.00 EA	\$5,524.00	\$16,572.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	360.00 LF	\$85.17	\$30,661.20
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	160.00 LF	\$92.51	\$14,801.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	136.00 LF	\$140.30	\$19,080.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	18.00 EA	\$1,611.00	\$28,998.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	897.80 SY	\$57.00	\$51,174.60
570-1-1	PERFORMANCE TURF	316.03 SY	\$2.10	\$663.66

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	10.00 EA	\$6,457.00	\$64,570.00
	<b>Comment:</b> Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	2,376.00 LF	\$92.51	\$219,803.76
	<b>Comment:</b> Longitudinal Drainage System			
<b>Drainage Component Total</b>				<b>\$457,212.21</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	11.00 AS	\$1,288.00	\$14,168.00



700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	3.00 AS	\$6,161.00	\$18,483.00
<b>Signing Component Total</b>				<b>\$37,152.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Multiplier (Number of Poles)				27
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	5,400.00 LF	\$8.43	\$45,522.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	27.00 EA	\$709.00	\$19,143.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	16,200.00 LF	\$2.20	\$35,640.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	27.00 EA	\$6,413.00	\$173,151.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	27.00 EA	\$556.00	\$15,012.00
<b>Subcomponent Total</b>				<b>\$288,468.00</b>
<b>Lighting Component Total</b>				<b>\$288,468.00</b>

**BRIDGES COMPONENT****Bridge SBEL**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	1,572.00
Width (LF)	30.00
Type	High Level
Cost Factor	1.60
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$160.00
Factored Cost per SF	\$256.00
<b>Final Cost per SF</b>	<b>\$267.64</b>
<b>Basic Bridge Cost</b>	<b>\$12,072,960.00</b>
Description	I-275 SB DIRECT CONNECT TO EXPRESS LANES FROM DOWNTOWN TAMPA. SPANS WILLOW AVE, I-275 SB, N BOULEVARD. INCLUDES CURVED STEEL, PHASED CONSTRUCTION AND 1 STRADDLE BENT.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-10	CONC CLASS II, APPROACH SLABS	66.67 CY	\$533.96	\$35,599.11
415-1-9	REINF STEEL- APPROACH SLABS	11,667.25 LB	\$1.16	\$13,534.01

**Bridge EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
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STBENT	STRADDLE BENT	1.00 AS	\$500,000.00	\$500,000.00
	<b>Comment:</b> 120' SPAN			
	<b>Bridge SBEL Total</b>			\$12,622,093.12

**Bridge A00702**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	111.00
Width (LF)	30.00
Type	Overpass Widening
Cost Factor	0.86
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$120.40
<b>Final Cost per SF</b>	<b>\$135.15</b>
<b>Basic Bridge Cost</b>	<b>\$400,932.00</b>
Description	I-275 SB DIRECT CONNECT TO EL OVER ROME AVENUE. ADDITIONAL WIDENING FOR EL RAMP.

**Bridge Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II, APPROACH SLABS	66.67 CY	\$533.96	\$35,599.11
415-1-9	REINF STEEL- APPROACH SLABS	11,667.25 LB	\$1.16	\$13,534.01
	<b>Bridge A00702 Total</b>			\$450,065.12
	<b>Bridges Component Total</b>			\$13,072,158.24

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	2,400.00
Begin height	4.00
End Height	30.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	40,800.00 SF	\$29.35	\$1,197,480.00

**Retaining Wall 2**

Description	Value
Length	2,000.00
Begin height	4.00
End Height	30.00
Multiplier	1



**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	34,000.00	SF	\$29.35	\$997,900.00

**Retaining Wall 3**

<b>Description</b>	<b>Value</b>
Length	30.00
Begin height	20.00
End Height	20.00
Multiplier	4

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	2,400.00	SF	\$29.35	\$70,440.00

<b>Retaining Walls Component Total</b>	<b>\$2,265,820.00</b>
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<b>Sequence 13 Total</b>	<b>\$18,609,863.89</b>
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**Sequence:** 14 NDR - New Construction, Divided, Rural**Net Length:** 0.247 MI  
1,302 LF**Description:** I-275 GL southbound 2-lane entrance ramp from downtown Tampa**Special** 2-12' lanes (concrete). Includes additional bridge widening for I-275 SB over Hillsborough River.**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	50.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.247
Top of Structural Course For Begin Section	122.00
Top of Structural Course For End Section	122.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.50	AC	\$15,000.00	\$22,500.00
120-6	EMBANKMENT	38,233.14	CY	\$17.00	\$649,963.38
<b>Earthwork Component Total</b>					<b>\$672,463.38</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	25.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,076.22	SY	\$5.00	\$30,381.10
285-702	OPTIONAL BASE,BASE GROUP 02	3,712.28	SY	\$22.50	\$83,526.30
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	3,616.80	SY	\$92.00	\$332,745.60

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,302.00	LF	\$31.85	\$41,468.70
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	200.00	LF	\$30.00	\$6,000.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	2,604.00	LF	\$216.00	\$562,464.00

**Pavement Marking Subcomponent**



Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	33.00 EA	\$3.67	\$121.11
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.49 GM	\$4,328.00	\$2,120.72
<b>Roadway Component Total</b>				<b>\$1,058,827.53</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	9.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	9.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	1,349.79 SY	\$18.00	\$24,296.22
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	179.03 TN	\$98.00	\$17,544.94

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	400.00 LF	\$265.00	\$106,000.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,385.32 LF	\$1.37	\$4,637.89
104-11	FLOATING TURBIDITY BARRIER	61.65 LF	\$9.79	\$603.55
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	61.65 LF	\$4.06	\$250.30
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	5.98 AC	\$40.27	\$240.81
107-2	MOWING	5.98 AC	\$58.12	\$347.56
<b>Shoulder Component Total</b>				<b>\$157,064.85</b>



**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	8.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	8.00 / 0.00
Paved Median Shoulder Width L/R	8.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,205.12 SY	\$18.00	\$21,692.16
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	159.14 TN	\$98.00	\$15,595.72
<b>Median Component Total</b>				<b>\$37,287.88</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.44 CY	\$1,347.35	\$5,982.23
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00 EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	200.00 LF	\$85.17	\$17,034.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	88.00 LF	\$92.51	\$8,140.88
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$140.30	\$10,101.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	10.00 EA	\$1,611.00	\$16,110.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	493.20 SY	\$57.00	\$28,112.40
570-1-1	PERFORMANCE TURF	173.61 SY	\$2.10	\$364.58

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	8.00 EA	\$6,457.00	\$51,656.00
	<b>Comment:</b> Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,304.00 LF	\$92.51	\$120,633.04
	<b>Comment:</b> Longitudinal Drainage System			
<b>Drainage Component Total</b>				<b>\$269,182.73</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12		6.00 AS	\$1,288.00	\$7,728.00



	SINGLE POST SIGN, F&I GM, 12-20 SF			
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				<b>\$24,551.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description				Value	
Multiplier (Number of Poles)				15	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	3,000.00	LF	\$8.43	\$25,290.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	15.00	EA	\$709.00	\$10,635.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	9,000.00	LF	\$2.20	\$19,800.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	15.00	EA	\$6,413.00	\$96,195.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	15.00	EA	\$556.00	\$8,340.00
Subcomponent Total					\$160,260.00
Lighting Component Total					\$160,260.00

**BRIDGES COMPONENT****Bridge A00135**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	840.00
Width (LF)	45.00
Type	High Level
Cost Factor	1.10
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$160.00
Factored Cost per SF	\$176.00
<b>Final Cost per SF</b>	<b>\$177.95</b>
<b>Basic Bridge Cost</b>	<b>\$6,652,800.00</b>
Description	NEW I-275 SB ENTRANCE RAMP OVER HILLSBOROUGH RIVER FROM DOWNTOWN TAMPA

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-10	CONC CLASS II, APPROACH SLABS	100.00	CY	\$533.96	\$53,396.00
415-1-9	REINF STEEL- APPROACH SLABS	17,500.00	LB	\$1.16	\$20,300.00
<b>Bridge A00135 Total</b>					<b>\$6,726,496.00</b>



**Bridge 100134**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	174.00
Width (LF)	25.50
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	696.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$149.41</b>
<b>Basic Bridge Cost</b>	<b>\$621,180.00</b>
Description	I-275 MAINLINE SB OVER N BOULEVARD

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	696.00	SF	\$34.00	\$23,664.00
400-2-10	CONC CLASS II, APPROACH SLABS	56.67	CY	\$533.96	\$30,259.51
415-1-9	REINF STEEL- APPROACH SLABS	9,917.25	LB	\$1.16	\$11,504.01
<b>Bridge 100134 Total</b>					<b>\$686,607.52</b>

**Bridge 100135**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	260.00
Width (LF)	27.50
Type	Overpass Widening
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	9,200.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$146.30</b>
<b>Basic Bridge Cost</b>	<b>\$1,001,000.00</b>
Description	WIDEN EXISTING I-275 SB BRIDGE OVER HILLSBOROUGH RIVER TO ACCOMMODATE EL

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	9,200.00	SF	\$34.00	\$312,800.00
400-2-10	CONC CLASS II, APPROACH SLABS	61.11	CY	\$533.96	\$32,630.30
415-1-9	REINF STEEL- APPROACH SLABS	10,694.25	LB	\$1.16	\$12,405.33
<b>Bridge 100135 Total</b>					<b>\$1,358,835.63</b>
<b>Bridges Component Total</b>					<b>\$8,771,939.15</b>



**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	400.00
Begin height	22.00
End Height	22.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	8,800.00	SF	\$29.35	\$258,280.00

**Retaining Wall 2**

<b>Description</b>	<b>Value</b>
Length	50.00
Begin height	22.00
End Height	22.00
Multiplier	4

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	4,400.00	SF	\$29.35	\$129,140.00

<b>Retaining Walls Component Total</b>	<b>\$387,420.00</b>
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<b>Sequence 14 Total</b>	<b>\$11,538,996.52</b>
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**Sequence:** 15 NDR - New Construction, Divided, Rural**Net Length:** 0.117 MI  
620 LF**Description:** I-275 EL northbound exit ramp to downtown Tampa**Special** Construct 2-12' EL (concrete), 10' inside shoulder and 10' outside shoulder**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.117
Top of Structural Course For Begin Section	122.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.42	AC	\$15,000.00	\$21,300.00
120-6	EMBANKMENT	9,664.97	CY	\$17.00	\$164,304.49
<b>Earthwork Component Total</b>					<b>\$185,604.49</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 25.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,030.49	SY	\$5.00	\$15,152.45
285-702	OPTIONAL BASE,BASE GROUP 02	1,767.32	SY	\$22.50	\$39,764.70
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	1,721.87	SY	\$92.00	\$158,412.04

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	620.00	LF	\$31.85	\$19,747.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	200.00	LF	\$30.00	\$6,000.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	Y



Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	16.00	EA	\$3.67	\$58.72
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.23	GM	\$4,328.00	\$995.44
<b>Roadway Component Total</b>					<b>\$240,130.35</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 9.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 9.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	642.60	SY	\$18.00	\$11,566.80
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	85.23	TN	\$98.00	\$8,352.54

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	620.00	LF	\$265.00	\$164,300.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,611.67	LF	\$1.37	\$2,207.99
104-11	FLOATING TURBIDITY BARRIER	29.35	LF	\$9.79	\$287.34
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	29.35	LF	\$4.06	\$119.16
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	2.85	AC	\$40.27	\$114.77
107-2	MOWING	2.85	AC	\$58.12	\$165.64
<b>Shoulder Component Total</b>					<b>\$190,144.53</b>

**MEDIAN COMPONENT**



**User Input Data**

Description	Value
Total Median Width	10.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	0.00 / 10.00
Paved Median Shoulder Width L/R	0.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	711.48 SY	\$18.00	\$12,806.64
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	94.70 TN	\$98.00	\$9,280.60
521-1-13	MEDIAN CONC BARRIER, TALL GRADE SEP	620.00 LF	\$317.00	\$196,540.00
570-1-1	PERFORMANCE TURF	367.79 SY	\$2.10	\$772.36
<b>Median Component Total</b>				<b>\$219,399.60</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.11 CY	\$1,347.35	\$2,842.91
425-1-551	INLETS, DT BOT, TYPE E, <10'	1.00 EA	\$5,524.00	\$5,524.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	96.00 LF	\$85.17	\$8,176.32
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	48.00 LF	\$92.51	\$4,440.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$140.30	\$5,612.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	5.00 EA	\$1,611.00	\$8,055.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	234.80 SY	\$57.00	\$13,383.60
570-1-1	PERFORMANCE TURF	82.65 SY	\$2.10	\$173.56

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	4.00 EA	\$6,457.00	\$25,828.00
	<b>Comment:</b> Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	624.00 LF	\$92.51	\$57,726.24
	<b>Comment:</b> Longitudinal Drainage System			
<b>Drainage Component Total</b>				<b>\$131,762.12</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00



700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00 AS	\$1,288.00	\$3,864.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>				<b>\$14,526.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Multiplier (Number of Poles)				6
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,200.00	LF	\$8.43
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00	EA	\$709.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,600.00	LF	\$2.20
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	6.00	EA	\$6,413.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00	EA	\$556.00
<b>Subcomponent Total</b>				<b>\$64,104.00</b>
<b>Lighting Component Total</b>				<b>\$64,104.00</b>

**BRIDGES COMPONENT****Bridge 100290**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	150.00
Width (LF)	47.00
Type	Medium Level
Cost Factor	1.23
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$159.90
<b>Final Cost per SF</b>	<b>\$170.82</b>
<b>Basic Bridge Cost</b>	<b>\$1,127,295.00</b>
Description	I-275 NB EXPRESS LANES RAMP OVER LAUREL STREET

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-10	CONC CLASS II, APPROACH SLABS	104.44	CY	\$533.96	\$55,766.78
415-1-9	REINF STEEL- APPROACH SLABS	18,277.00	LB	\$1.16	\$21,201.32
<b>Bridge 100290 Total</b>					<b>\$1,204,263.10</b>



**Bridges Component Total**

\$1,204,263.10

**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	700.00
Begin height	4.00
End Height	22.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,100.00	SF	\$29.35	\$267,085.00

**Retaining Wall 2**

<b>Description</b>	<b>Value</b>
Length	620.00
Begin height	6.00
End Height	6.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	3,720.00	SF	\$29.35	\$109,182.00

**Retaining Walls Component Total**

\$376,267.00

**Sequence 15 Total**

\$2,626,201.19



**Sequence:** 16 NDR - New Construction, Divided, Rural**Net Length:** 0.267 MI  
1,407 LF**Description:** I-275 EL northbound direct connect exit ramp to downtown Tampa**Special** Includes 1-15' ramp flyover bridge to Ashley Drive**Conditions:****EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.267
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	130.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.29 AC	\$15,000.00	\$19,350.00
120-6	EMBANKMENT	20,859.75 CY	\$17.00	\$354,615.75
<b>Earthwork Component Total</b>				<b>\$373,965.75</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 16.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,221.36 SY	\$5.00	\$21,106.80
285-702	OPTIONAL BASE,BASE GROUP 02	2,604.74 SY	\$22.50	\$58,606.65
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	2,501.55 SY	\$92.00	\$230,142.60

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,407.00 LF	\$31.85	\$44,812.95
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	200.00 LF	\$30.00	\$6,000.00

**Pavement Marking Subcomponent**

Description	Value
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Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	36.00 EA	\$3.67	\$132.12
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	2.13 GM	\$1,064.00	\$2,266.32

**Roadway Component Total**

\$363,067.44

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 5.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 5.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	833.33 SY	\$18.00	\$14,999.94
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	107.49 TN	\$98.00	\$10,534.02

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,407.00 LF	\$265.00	\$372,855.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,658.51 LF	\$1.37	\$5,012.16
104-11	FLOATING TURBIDITY BARRIER	66.62 LF	\$9.79	\$652.21
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	66.62 LF	\$4.06	\$270.48
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	6.46 AC	\$40.27	\$260.14
107-2	MOWING	6.46 AC	\$58.12	\$375.46

**Shoulder Component Total**

\$408,102.99



**MEDIAN COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Total Median Width	8.00
Performance Turf Width	0.00
Total Median Shoulder Width L/R	0.00 / 6.00
Paved Median Shoulder Width L/R	0.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-707	OPTIONAL BASE, BASE GROUP 07	989.67 SY	\$18.00	\$17,814.06
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	128.99 TN	\$98.00	\$12,641.02
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,307.00 LF	\$265.00	\$346,355.00
<b>Median Component Total</b>				<b>\$376,810.08</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	4.80 CY	\$1,347.35	\$6,467.28
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00 EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	216.00 LF	\$85.17	\$18,396.72
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	96.00 LF	\$92.51	\$8,880.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	80.00 LF	\$140.30	\$11,224.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	11.00 EA	\$1,611.00	\$17,721.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	533.00 SY	\$57.00	\$30,381.00
570-1-1	PERFORMANCE TURF	187.62 SY	\$2.10	\$394.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-891	INLETS, BARRIER WALL, <=10'	6.00 EA	\$6,457.00	\$38,742.00
<b>Comment:</b> Longitudinal Drainage System				
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,408.00 LF	\$92.51	\$130,254.08
<b>Comment:</b> Longitudinal Drainage System				
<b>Drainage Component Total</b>				<b>\$273,509.04</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00



700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00 AS	\$1,288.00	\$9,016.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				<b>\$25,839.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Multiplier (Number of Poles)				22
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F&I, OPEN TRENCH	4,400.00 LF	\$8.43	\$37,092.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$709.00	\$15,598.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	13,200.00 LF	\$2.20	\$29,040.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	22.00 EA	\$6,413.00	\$141,086.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	22.00 EA	\$556.00	\$12,232.00
<b>Subcomponent Total</b>				<b>\$235,048.00</b>
<b>Lighting Component Total</b>				<b>\$235,048.00</b>

**BRIDGES COMPONENT****Bridge NBEL**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	1,839.00
Width (LF)	30.00
Type	High Level
Cost Factor	1.60
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$160.00
Factored Cost per SF	\$256.00
<b>Final Cost per SF</b>	<b>\$275.02</b>
<b>Basic Bridge Cost</b>	<b>\$14,123,520.00</b>

Description I-275 NB DIRECT CONNECT FROM EXPRESS LANES TO DOWNTOWN TAMPA. SPANS WILLOW AVE, I-275 NB, N BOULEVARD, GREEN ST, HILLSBOROUGH RIVER. INCLUDES CURVED STEEL, PHASED CONSTRUCTION, AND 2 STRADDLE BENTS.

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-10	CONC CLASS II, APPROACH SLABS	66.67 CY	\$533.96	\$35,599.11
415-1-9	REINF STEEL- APPROACH SLABS	11,667.25 LB	\$1.16	\$13,534.01



**Bridge EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
STBENT	STRADDLE BENT <b>Comment:</b> 110' SPANS	2.00	AS	\$500,000.00	\$1,000,000.00
<b>Bridge NBEL Total</b>					\$15,172,653.12
<b>Bridges Component Total</b>					\$15,172,653.12

**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	1,467.00
Begin height	4.00
End Height	30.00
Multiplier	2

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	49,878.00	SF	\$29.35	\$1,463,919.30
<b>Retaining Walls Component Total</b>					\$1,463,919.30

<b>Sequence 16 Total</b>					\$18,692,914.72
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**Sequence:** 17 NDR - New Construction, Divided, Rural**Net Length:** 0.064 MI  
340 LF**Description:** I-275 EL Northbound Exit Ramp to Downtown Tampa at Ashley Drive**Special** Construct 2-12' EL (concrete), 10' inside shoulder and 10' outside shoulder**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.064
Top of Structural Course For Begin Section	108.00
Top of Structural Course For End Section	110.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.39	AC	\$15,000.00	\$5,850.00
120-6	EMBANKMENT	3,822.50	CY	\$17.00	\$64,982.50
<b>Earthwork Component Total</b>					<b>\$70,832.50</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 25.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,662.38	SY	\$5.00	\$8,311.90
285-702	OPTIONAL BASE,BASE GROUP 02	969.47	SY	\$22.50	\$21,813.08
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	944.53	SY	\$92.00	\$86,896.76

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	340.00	LF	\$31.85	\$10,829.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	100.00	LF	\$30.00	\$3,000.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	Y



Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	9.00	EA	\$3.67	\$33.03
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	0.13	GM	\$4,328.00	\$562.64
<b>Roadway Component Total</b>					<b>\$131,446.41</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 9.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 9.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	352.50	SY	\$18.00	\$6,345.00
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	46.75	TN	\$98.00	\$4,581.50

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	340.00	LF	\$265.00	\$90,100.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	884.08	LF	\$1.37	\$1,211.19
104-11	FLOATING TURBIDITY BARRIER	16.10	LF	\$9.79	\$157.62
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	16.10	LF	\$4.06	\$65.37
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	1.56	AC	\$40.27	\$62.82
107-2	MOWING	1.56	AC	\$58.12	\$90.67
<b>Shoulder Component Total</b>					<b>\$105,644.46</b>

**MEDIAN COMPONENT**



**User Input Data**

<b>Description</b>	<b>Value</b>
Total Median Width	10.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	0.00 / 10.00
Paved Median Shoulder Width L/R	0.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
285-707	OPTIONAL BASE,BASE GROUP 07	390.28 SY	\$18.00	\$7,025.04
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	51.95 TN	\$98.00	\$5,091.10
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	340.00 LF	\$265.00	\$90,100.00
570-1-1	PERFORMANCE TURF	201.75 SY	\$2.10	\$423.68
<b>Median Component Total</b>				<b>\$102,639.82</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	1.16 CY	\$1,347.35	\$1,562.93
425-1-551	INLETS, DT BOT, TYPE E, <10'	1.00 EA	\$5,524.00	\$5,524.00
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	56.00 LF	\$85.17	\$4,769.52
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	24.00 LF	\$92.51	\$2,220.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00 EA	\$1,611.00	\$4,833.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	128.80 SY	\$57.00	\$7,341.60
570-1-1	PERFORMANCE TURF	45.34 SY	\$2.10	\$95.21

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-891	INLETS, BARRIER WALL, <=10'	2.00 EA	\$6,457.00	\$12,914.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	344.00 LF	\$92.51	\$31,823.44
<b>Drainage Component Total</b>				<b>\$74,451.14</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	2.00 AS	\$1,288.00	\$2,576.00



700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>				<b>\$13,238.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Multiplier (Number of Poles)				3
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	600.00 LF	\$8.43	\$5,058.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$709.00	\$2,127.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,800.00 LF	\$2.20	\$3,960.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	3.00 EA	\$6,413.00	\$19,239.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00 EA	\$556.00	\$1,668.00
<b>Subcomponent Total</b>				<b>\$32,052.00</b>
<b>Lighting Component Total</b>				<b>\$32,052.00</b>

**BRIDGES COMPONENT****Bridge A00703**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	106.00
Width (LF)	47.00
Type	Medium Level
Cost Factor	0.92
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$119.60
<b>Final Cost per SF</b>	<b>\$135.05</b>
<b>Basic Bridge Cost</b>	<b>\$595,847.20</b>
Description	I-275 NB EXPRESS LANES RAMP OVER WILLOW AVENUE

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-10	CONC CLASS II, APPROACH SLABS	104.44 CY	\$533.96	\$55,766.78
415-1-9	REINF STEEL- APPROACH SLABS	18,277.00 LB	\$1.16	\$21,201.32
<b>Bridge A00703 Total</b>				<b>\$672,815.30</b>
<b>Bridges Component Total</b>				<b>\$672,815.30</b>



**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	370.00
Begin height	12.00
End Height	16.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	5,180.00	SF	\$29.35	\$152,033.00

**Retaining Wall 2**

<b>Description</b>	<b>Value</b>
Length	370.00
Begin height	2.00
End Height	6.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	1,480.00	SF	\$29.35	\$43,438.00

<b>Retaining Walls Component Total</b>	<b>\$195,471.00</b>
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<b>Sequence 17 Total</b>	<b>\$1,398,590.63</b>
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**Sequence:** 18 WDU - Widen/Resurface, Divided, Urban**Net Length:** 0.090 MI  
475 LF**Description:** North Blvd from Laurel Street to Main Street, Resurface 5 lanes**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	5
Existing Roadway Pavement Width L/R	37.00 / 26.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	3,326.40 SY	\$4.00	\$13,305.60
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	274.43 TN	\$98.00	\$26,894.14
337-7-85	ASPH CONC FC, TRAFFIC D, FC-12.5, PG 76-22	274.43 TN	\$115.00	\$31,559.45

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	3

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	49.00 EA	\$3.67	\$179.83
710-11-101	PAINTED PAVT MARK, STD, WHITE, SOLID, 6"	0.72 GM	\$1,064.00	\$766.08
710-11-131	PAINTED PAVT MARK, STD, WHITE, SKIP, 6"	0.54 GM	\$442.00	\$238.68
<b>Roadway Component Total</b>				<b>\$72,943.78</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	0.00
Performance Turf Width	0.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price
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				<b>Extended Amount</b>
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	475.00 LF	\$47.20	\$22,420.00
<b>Median Component Total</b>				<b>\$22,420.00</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	2.00 AS	\$26.39	\$52.78
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$7,054.78</b>

**SIGNALIZATIONS COMPONENT****Signalization 1****Description**

Type

Multiplier

Description

**Value**

4 Lane Mast Arm

2

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,500.00 LF	\$8.43	\$12,645.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	500.00 LF	\$20.45	\$10,225.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	2.00 PI	\$5,034.00	\$10,068.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	32.00 EA	\$709.00	\$22,688.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	2.00 AS	\$2,684.00	\$5,368.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	120.00 LF	\$6.00	\$720.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	8.00 EA	\$46,890.00	\$375,120.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	24.00 AS	\$946.00	\$22,704.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	16.00 AS	\$634.00	\$10,144.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	24.00 EA	\$468.00	\$11,232.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	24.00 AS	\$944.00	\$22,656.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	16.00 EA	\$261.00	\$4,176.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	2.00 AS	\$33,949.00	\$67,898.00



700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	8.00 EA	\$194.00	\$1,552.00
<b>Signalizations Component Total</b>				<b>\$577,196.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Spacing				<b>MIN</b>
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F&I, OPEN TRENCH	475.20 LF	\$8.43	\$4,005.94
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	94.32 LF	\$20.45	\$1,928.84
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$709.00	\$2,836.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,735.56 LF	\$2.20	\$3,818.23
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	4.00 EA	\$5,800.00	\$23,200.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	4.00 EA	\$556.00	\$2,224.00
<b>Subcomponent Total</b>				<b>\$38,013.01</b>
<b>Lighting Component Total</b>				<b>\$38,013.01</b>
<b>Sequence 18 Total</b>				<b>\$717,627.57</b>



**Sequence:** 19 NDU - New Construction, Divided, Urban**Net Length:** 0.148 MI  
780 LF**Description:** Green Street from North Blvd to West of Hillsborough River, 2 Lanes**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.148
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.08	AC	\$15,000.00	\$16,200.00
120-6	EMBANKMENT	4,481.41	CY	\$17.00	\$76,183.97
<b>Earthwork Component Total</b>					<b>\$92,383.97</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	15.00 / 15.00
Structural Spread Rate	275
Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,493.75	SY	\$5.00	\$17,468.75
285-707	OPTIONAL BASE,BASE GROUP 07	2,599.52	SY	\$18.00	\$46,791.36
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	357.43	TN	\$98.00	\$35,028.14
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	103.98	TN	\$115.00	\$11,957.70

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	20.00 EA	\$5.82	\$116.40
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.18 GM	\$1,064.00	\$1,255.52
<b>Roadway Component Total</b>				<b>\$112,617.87</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	14.25 / 7.25
Total Outside Shoulder Perf. Turf Width L/R	6.00 / 5.00
Sidewalk Width L/R	6.00 / 0.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	779.86 LF	\$24.58	\$19,168.96
520-1-10	CONCRETE CURB & GUTTER, TYPE F	779.86 LF	\$24.58	\$19,168.96
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	519.90 SY	\$46.00	\$23,915.40
570-1-1	PERFORMANCE TURF	953.16 SY	\$2.10	\$2,001.64

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,559.71 LF	\$1.37	\$2,136.80
104-11	FLOATING TURBIDITY BARRIER	36.92 LF	\$9.79	\$361.45
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	36.92 LF	\$4.06	\$149.90
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	8.00 EA	\$113.29	\$906.32
107-1	LITTER REMOVAL	3.76 AC	\$40.27	\$151.42
107-2	MOWING	3.76 AC	\$58.12	\$218.53
<b>Shoulder Component Total</b>				<b>\$71,096.38</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.66 CY	\$1,347.35	\$3,583.95
425-1-351	INLETS, CURB, TYPE P-5, <10'	6.00 EA	\$5,211.58	\$31,269.48
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00 EA	\$8,211.06	\$16,422.12
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$3,482.18	\$3,482.18



425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$5,347.00	\$5,347.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	392.00 LF	\$92.51	\$36,263.92
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$140.30	\$5,612.00
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	744.00 LF	\$183.79	\$136,739.76
570-1-1	PERFORMANCE TURF	44.90 SY	\$2.10	\$94.29
<b>Drainage Component Total</b>				<b>\$238,814.70</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00 AS	\$342.00	\$1,368.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
700-2-16	MULTI- POST SIGN, F&I GM, 101-200 SF	1.00 AS	\$9,399.00	\$9,399.00
<b>Signing Component Total</b>				<b>\$18,216.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

<b>Description</b>			<b>Value</b>	
Spacing			MIN	
<b>Pay Items</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	779.86 LF	\$8.43	\$6,574.22
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	154.79 LF	\$20.45	\$3,165.46
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	6.00 EA	\$709.00	\$4,254.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,848.25 LF	\$2.20	\$6,266.15
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	6.00 EA	\$5,800.00	\$34,800.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	6.00 EA	\$556.00	\$3,336.00
<b>Subcomponent Total</b>				<b>\$58,395.83</b>
<b>Lighting Component Total</b>				<b>\$58,395.83</b>

<b>Sequence 19 Total</b>	<b>\$591,524.75</b>
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**Sequence:** 20 NUR - New Construction, Undivided, Rural**Net Length:** 0.932 MI  
4,922 LF**Description:** I-275 NB EL Exit Ramp to Himes Avenue & I-275 SB Entrance Ramp from Himes Avenue**Special** Construct 1 - 15' lane (concrete), 6' paved inside and outside shoulders (asphalt).**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.932
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	118.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
120-6	EMBANKMENT	34,379.28 CY	\$17.00	\$584,447.76
<b>Earthwork Component Total</b>				<b>\$584,447.76</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 16.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	14,766.05 SY	\$5.00	\$73,830.25
285-702	OPTIONAL BASE,BASE GROUP 02	8,930.72 SY	\$22.50	\$200,941.20
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	8,750.25 SY	\$92.00	\$805,023.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	4,922.00 LF	\$31.85	\$156,765.70
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	550.00 LF	\$30.00	\$16,500.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	375.00 LF	\$216.00	\$81,000.00

**Comment:** SB Median Side North of Dale Mabry



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	1.86 GM	\$4,143.00	\$7,705.98
<b>Roadway Component Total</b>				<b>\$1,341,766.13</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 5.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	6.00 / 5.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	6,376.75 SY	\$18.00	\$114,781.50
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	827.17 TN	\$98.00	\$81,062.66

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,600.00 LF	\$265.00	\$424,000.00
<b>Comment:</b> 800 LF for NB Exit Ramp and 800 LF for SB Entrance Ramp				

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	12,797.24 LF	\$1.37	\$17,532.22
104-11	FLOATING TURBIDITY BARRIER	233.05 LF	\$9.79	\$2,281.56
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	233.05 LF	\$4.06	\$946.18
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	11.30 AC	\$40.27	\$455.05



107-2	MOWING	11.30 AC	\$58.12	\$656.76
<b>Shoulder Component Total</b>				<b>\$644,632.93</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	16.78 CY	\$1,347.35	\$22,608.53
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	752.00 LF	\$85.17	\$64,047.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	160.00 LF	\$140.30	\$22,448.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	38.00 EA	\$1,611.00	\$61,218.00
570-1-1	PERFORMANCE TURF	656.27 SY	\$2.10	\$1,378.17

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	6.00 EA	\$6,457.00	\$38,742.00
	<b>Comment:</b> Longitudinal Drainage System			
430-175-124	PIPE CULV, OPT MATL, ROUND, 24" S/CD	1,544.00 LF	\$92.51	\$142,835.44
	<b>Comment:</b> Longitudinal Drainage System			
<b>Drainage Component Total</b>				<b>\$353,277.98</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	19.00 AS	\$1,288.00	\$24,472.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$4,159.00	\$8,318.00
<b>Signing Component Total</b>				<b>\$33,474.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

16

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	3,200.00 LF	\$8.43	\$26,976.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$709.00	\$11,344.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	9,600.00 LF	\$2.20	\$21,120.00
715-4-14		16.00 EA	\$6,413.00	\$102,608.00



715-500-1	LIGHT POLE COMPLETE, F&I-STD, 45'	16.00 EA	\$556.00	\$8,896.00
	POLE CABLE DIST SYS, CONVENTIONAL			
	<b>Subcomponent Total</b>			\$170,944.00
	<b>Lighting Component Total</b>			\$170,944.00

#### RETAINING WALLS COMPONENT

##### Retaining Wall 1

Description	Value
Length	800.00
Begin height	22.00
End Height	2.00
Multiplier	1

##### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,600.00	SF	\$29.35	\$281,760.00

##### Retaining Wall 2

Description	Value
Length	800.00
Begin height	22.00
End Height	2.00
Multiplier	1

##### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,600.00	SF	\$29.35	\$281,760.00

**Retaining Walls Component Total** \$563,520.00

**Sequence 20 Total** \$3,692,062.80



**Sequence:** 21 NUR - New Construction, Undivided, Rural**Net Length:** 0.116 MI  
610 LF**Description:** I-275 NB Exit Ramp to Himes Avenue (2 Aux. Lanes)**Special** Construct 2-12' Lanes (Concrete)**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 24.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.116
Top of Structural Course For Begin Section	110.00
Top of Structural Course For End Section	88.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.34	AC	\$15,000.00	\$5,100.00
120-1	REGULAR EXCAVATION	14,506.70	CY	\$9.00	\$130,560.30
<b>Earthwork Component Total</b>					<b>\$135,660.30</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	0.00 / 24.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	2,032.80	SY	\$5.00	\$10,164.00
285-702	OPTIONAL BASE,BASE GROUP 02	1,648.60	SY	\$22.50	\$37,093.50
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	1,626.24	SY	\$92.00	\$149,614.08

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	610.00	LF	\$31.85	\$19,428.50
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	150.00	LF	\$30.00	\$4,500.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
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Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	16.00	EA	\$3.67	\$58.72
711-15-131	THERMOPLASTIC, STD-OP, WHITE, SKIP, 6"	0.12	GM	\$1,554.00	\$186.48
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.35	GM	\$4,143.00	\$1,450.05
<b>Roadway Component Total</b>					<b>\$222,495.33</b>
<b>Sequence 21 Total</b>					<b>\$358,155.63</b>



**Sequence:** 22 WDU - Widen/Resurface, Divided, Urban**Net Length:** 0.029 MI  
155 LF**Description:** Himes Avenue Widening/Resurfacing south of LA R/W (length 155'). Widen 2 bike lanes (8').  
Resurface 4 lanes (48').**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.029
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	4 to 1 / 4 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	4 to 1 / 4 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.18	AC	\$15,000.00	\$2,700.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	100.72	CY	\$22.00	\$2,215.84
<b>Earthwork Component Total</b>					<b>\$4,915.84</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	4
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	4.00 / 4.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	226.98	SY	\$5.00	\$1,134.90
285-709	OPTIONAL BASE,BASE GROUP 09	149.37	SY	\$18.00	\$2,688.66
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	827.90	SY	\$4.00	\$3,311.60
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	68.30	TN	\$98.00	\$6,693.40



334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	18.97 TN	\$98.00	\$1,859.06
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	68.30 TN	\$115.00	\$7,854.50
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	11.38 TN	\$115.00	\$1,308.70

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	12.00 EA	\$3.67	\$44.04
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.24 GM	\$1,064.00	\$255.36
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.12 GM	\$442.00	\$53.04
<b>Roadway Component Total</b>				<b>\$25,203.26</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.25 / 12.25
New Total Outside Shoulder Width L/R	13.25 / 13.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	6.00 / 6.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	155.23 LF	\$24.58	\$3,815.55
520-1-10	CONCRETE CURB & GUTTER, TYPE F	155.23 LF	\$24.58	\$3,815.55
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	206.98 SY	\$46.00	\$9,521.08
570-1-1	PERFORMANCE TURF	172.48 SY	\$2.10	\$362.21

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	310.46 LF	\$1.37	\$425.33
104-11	FLOATING TURBIDITY BARRIER	2.94 LF	\$9.79	\$28.78
104-12		2.94 LF	\$4.06	\$11.94



	STAKED TURBIDITY BARRIER- NYL REINF PVC			
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	0.26 AC	\$40.27	\$10.47
107-2	MOWING	0.26 AC	\$58.12	\$15.11
<b>Shoulder Component Total</b>				<b>\$21,149.60</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	0.53 CY	\$1,347.35	\$714.10
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$5,211.58	\$10,423.16
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$8,211.06	\$8,211.06
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	24.00 LF	\$92.51	\$2,220.24
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$140.30	\$1,122.40
570-1-1	PERFORMANCE TURF	8.94 SY	\$2.10	\$18.77
<b>Drainage Component Total</b>				<b>\$22,709.73</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	1.00 AS	\$26.39	\$26.39
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$6,686.39</b>

**SIGNALIZATIONS COMPONENT****Signalization 1****Description**

Type

Multiplier

Description

**Value**

4 Lane Mast Arm

1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$8.43	\$6,322.50



630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$20.45	\$5,112.50
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$5,034.00	\$5,034.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$709.00	\$11,344.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,684.00	\$2,684.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$6.00	\$360.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$46,890.00	\$187,560.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$946.00	\$11,352.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$634.00	\$5,072.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$468.00	\$5,616.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$944.00	\$11,328.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$261.00	\$2,088.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$33,949.00	\$33,949.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$194.00	\$776.00
<b>Signalizations Component Total</b>				<b>\$288,598.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Spacing				MIN
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	155.23 LF	\$8.43	\$1,308.59
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	30.81 LF	\$20.45	\$630.06
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00 EA	\$709.00	\$1,418.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	566.95 LF	\$2.20	\$1,247.29
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	2.00 EA	\$5,800.00	\$11,600.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00 EA	\$556.00	\$1,112.00
<b>Subcomponent Total</b>				<b>\$17,315.94</b>
<b>Lighting Component Total</b>				<b>\$17,315.94</b>
<b>Sequence 22 Total</b>				<b>\$386,578.76</b>



**Sequence:** 23 WDU - Widen/Resurface, Divided, Urban**Net Length:** 0.078 MI  
410 LF**Description:** Himes Avenue Widening/Resurfacing within LA R/W limits (length 410'). Widen 1 lane (11') and 2 bike lanes (8'). Resurface 6 lanes (66').**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.078
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	4 to 1 / 4 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	4 to 1 / 4 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.47	AC	\$15,000.00	\$7,050.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	366.69	CY	\$22.00	\$8,067.18
<b>Earthwork Component Total</b>					<b>\$15,117.18</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	6
Existing Roadway Pavement Width L/R	33.00 / 33.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	4.00 / 15.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,101.31	SY	\$5.00	\$5,506.55
285-709	OPTIONAL BASE,BASE GROUP 09	896.18	SY	\$18.00	\$16,131.24
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	3,008.54	SY	\$4.00	\$12,034.16
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	248.20	TN	\$98.00	\$24,323.60



334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	119.09 TN	\$98.00	\$11,670.82
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	248.20 TN	\$115.00	\$28,543.00
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	71.45 TN	\$115.00	\$8,216.75

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	4

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	52.00 EA	\$3.67	\$190.84
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.62 GM	\$1,064.00	\$659.68
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.62 GM	\$442.00	\$274.04
<b>Roadway Component Total</b>				<b>\$107,550.68</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.25 / 12.25
New Total Outside Shoulder Width L/R	13.25 / 13.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	6.00 / 6.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	410.26 LF	\$24.58	\$10,084.19
520-1-10	CONCRETE CURB & GUTTER, TYPE F	410.26 LF	\$24.58	\$10,084.19
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	547.01 SY	\$46.00	\$25,162.46
570-1-1	PERFORMANCE TURF	455.84 SY	\$2.10	\$957.26

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	820.51 LF	\$1.37	\$1,124.10
104-11	FLOATING TURBIDITY BARRIER	7.77 LF	\$9.79	\$76.07
104-12		7.77 LF	\$4.06	\$31.55



	STAKED TURBIDITY BARRIER- NYL REINF PVC			
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	4.00 EA	\$113.29	\$453.16
107-1	LITTER REMOVAL	0.68 AC	\$40.27	\$27.38
107-2	MOWING	0.68 AC	\$58.12	\$39.52
<b>Shoulder Component Total</b>				<b>\$50,956.88</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	1.40 CY	\$1,347.35	\$1,886.29
425-1-351	INLETS, CURB, TYPE P-5, <10'	3.00 EA	\$5,211.58	\$15,634.74
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$8,211.06	\$8,211.06
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	48.00 LF	\$92.51	\$4,440.48
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$140.30	\$2,244.80
570-1-1	PERFORMANCE TURF	23.62 SY	\$2.10	\$49.60
<b>Drainage Component Total</b>				<b>\$32,466.97</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	2.00 AS	\$26.39	\$52.78
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$7,054.78</b>

**SIGNALIZATIONS COMPONENT****Signalization 1****Description**

Type

Multiplier

Description

**Value**

4 Lane Mast Arm

1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$8.43	\$6,322.50



630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$20.45	\$5,112.50
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$5,034.00	\$5,034.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$709.00	\$11,344.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,684.00	\$2,684.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$6.00	\$360.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$46,890.00	\$187,560.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$946.00	\$11,352.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$634.00	\$5,072.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$468.00	\$5,616.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$944.00	\$11,328.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$261.00	\$2,088.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$33,949.00	\$33,949.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$194.00	\$776.00
<b>Signalizations Component Total</b>				<b>\$288,598.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
<b>Spacing</b>				<b>MIN</b>
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	410.26	LF	\$8.43
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	81.43	LF	\$20.45
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00	EA	\$709.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,498.37	LF	\$2.20
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	3.00	EA	\$5,800.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	3.00	EA	\$556.00
<b>Subcomponent Total</b>				<b>\$29,615.15</b>
<b>Lighting Component Total</b>				<b>\$29,615.14</b>
<b>Sequence 23 Total</b>				<b>\$531,359.63</b>



**Sequence:** 24 WDU - Widen/Resurface, Divided, Urban**Net Length:** 0.068 MI  
360 LF**Description:** Himes Avenue Widening/Resurfacing North of LA R/W (length 360'). Widen 1 Lane (11') and 2 Bike Lanes (8'). Resurface 4 Lanes (48').**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.068
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	4 to 1 / 4 to 1
Existing Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	4 to 1 / 4 to 1
Median Shoulder Cross Slope L/R	4.00 % / 4.00 %
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.41	AC	\$15,000.00	\$6,150.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	319.68	CY	\$22.00	\$7,032.96
<b>Earthwork Component Total</b>					<b>\$13,182.96</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	4
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	165
Friction Course Spread Rate	165
Widened Outside Pavement Width L/R	4.00 / 15.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	966.66	SY	\$5.00	\$4,833.30
285-709	OPTIONAL BASE,BASE GROUP 09	786.61	SY	\$18.00	\$14,158.98
327-70-4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	1,920.51	SY	\$4.00	\$7,682.04
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	158.44	TN	\$98.00	\$15,527.12



334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	104.53 TN	\$98.00	\$10,243.94
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	158.44 TN	\$115.00	\$18,220.60
337-7-85	ASPH CONC FC,TRAFFIC D,FC- 12.5,PG 76-22	62.72 TN	\$115.00	\$7,212.80

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	28.00 EA	\$3.67	\$102.76
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.55 GM	\$1,064.00	\$585.20
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.27 GM	\$442.00	\$119.34
<b>Roadway Component Total</b>				<b>\$78,686.08</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.25 / 12.25
New Total Outside Shoulder Width L/R	13.25 / 13.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	6.00 / 6.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	360.10 LF	\$24.58	\$8,851.26
520-1-10	CONCRETE CURB & GUTTER, TYPE F	360.10 LF	\$24.58	\$8,851.26
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	480.13 SY	\$46.00	\$22,085.98
570-1-1	PERFORMANCE TURF	400.11 SY	\$2.10	\$840.23

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	720.19 LF	\$1.37	\$986.66
104-11	FLOATING TURBIDITY BARRIER	6.82 LF	\$9.79	\$66.77
104-12		6.82 LF	\$4.06	\$27.69



	STAKED TURBIDITY BARRIER- NYL REINF PVC			
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	4.00 EA	\$113.29	\$453.16
107-1	LITTER REMOVAL	0.59 AC	\$40.27	\$23.76
107-2	MOWING	0.59 AC	\$58.12	\$34.29
<b>Shoulder Component Total</b>				<b>\$45,138.06</b>

**MEDIAN COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Total Median Width	39.00
Performance Turf Width	0.00

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	360.00 LF	\$47.20	\$16,992.00
<b>Median Component Total</b>				<b>\$16,992.00</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	1.23 CY	\$1,347.35	\$1,657.24
425-1-351	INLETS, CURB, TYPE P-5, <10'	3.00 EA	\$5,211.58	\$15,634.74
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$8,211.06	\$8,211.06
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	40.00 LF	\$92.51	\$3,700.40
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$140.30	\$2,244.80
570-1-1	PERFORMANCE TURF	20.73 SY	\$2.10	\$43.53
<b>Drainage Component Total</b>				<b>\$31,491.77</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	2.00 AS	\$26.39	\$52.78
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00



**Signing Component Total**

\$7,054.78

**SIGNALIZATIONS COMPONENT****Signalization 1****Description**

Type

Multiplier

Description

**Value**

4 Lane Mast Arm

1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$8.43	\$6,322.50
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$20.45	\$5,112.50
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$5,034.00	\$5,034.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$709.00	\$11,344.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,684.00	\$2,684.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$6.00	\$360.00
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$46,890.00	\$187,560.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$946.00	\$11,352.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$634.00	\$5,072.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$468.00	\$5,616.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$944.00	\$11,328.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$261.00	\$2,088.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$33,949.00	\$33,949.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$194.00	\$776.00
<b>Signalizations Component Total</b>				<b>\$288,598.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent****Description**

Spacing

**Pay Items****Value**

MIN

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	360.10 LF	\$8.43	\$3,035.64
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	71.47 LF	\$20.45	\$1,461.56
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$709.00	\$2,127.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,315.17 LF	\$2.20	\$2,893.37
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	3.00 EA	\$5,800.00	\$17,400.00
715-500-1		3.00 EA	\$556.00	\$1,668.00



POLE CABLE DIST SYS, CONVENTIONAL	
<b>Subcomponent Total</b>	\$28,585.58
<b>Lighting Component Total</b>	\$28,585.57
<hr/>	
<b>Sequence 24 Total</b>	\$509,729.22
<hr/>	



**Sequence:** 25 NUU - New Construction, Undivided, Urban**Net Length:** 0.261 MI  
1,380 LF**Description:** South Side of I-275 from Cypress Street to Dale Mabry Hwy: Construct 12' Trail (asphalt)**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.261
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.79 AC	\$15,000.00	\$11,850.00
120-6	EMBANKMENT	1,188.21 CY	\$17.00	\$20,199.57
<b>Earthwork Component Total</b>				<b>\$32,049.57</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	2,235.91 SY	\$5.00	\$11,179.55
285-701	OPTIONAL BASE,BASE GROUP 01	1,840.26 SY	\$15.00	\$27,603.90
334-1-11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	151.82 TN	\$122.37	\$18,578.21

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	1,380.00 LF	\$30.00	\$41,400.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2



Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$98,761.66

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,760.38	LF	\$1.37	\$3,781.72
104-11	FLOATING TURBIDITY BARRIER	65.35	LF	\$9.79	\$639.78
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	65.35	LF	\$4.06	\$265.32
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	14.00	EA	\$113.29	\$1,586.06
107-1	LITTER REMOVAL	3.17	AC	\$40.27	\$127.66
107-2	MOWING	3.17	AC	\$58.12	\$184.24
<b>Shoulder Component Total</b>					<b>\$9,501.78</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-521	INLETS, DT BOT, TYPE C, <10'	5.00	EA	\$3,482.18	\$17,410.90
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	1,384.00	LF	\$92.51	\$128,033.84
<b>Drainage Component Total</b>					<b>\$145,444.74</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	6.00	AS	\$342.00	\$2,052.00
<b>Signing Component Total</b>					<b>\$2,052.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description	Value
Spacing	MIN



**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,380.19	LF	\$8.43	\$11,635.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	273.95	LF	\$20.45	\$5,602.28
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	10.00	EA	\$709.00	\$7,090.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	5,040.84	LF	\$2.20	\$11,089.85
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	10.00	EA	\$5,800.00	\$58,000.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	10.00	EA	\$556.00	\$5,560.00
	<b>Subcomponent Total</b>				\$98,977.13
	<b>Lighting Component Total</b>				\$98,977.13
<hr/>					
<b>Sequence 25 Total</b>					\$386,786.88
<hr/>					



**Sequence:** 26 NUU - New Construction, Undivided, Urban**Net Length:** 0.745 MI  
3,935 LF**Description:** South Side of I-275 from Himes Avenue to Habana Avenue: Construct 12' Trail (asphalt)**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.745
Top of Structural Course For Begin Section	102.00
Top of Structural Course For End Section	102.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.26	AC	\$15,000.00	\$33,900.00
120-6	EMBANKMENT	3,391.64	CY	\$17.00	\$57,657.88
<b>Earthwork Component Total</b>					<b>\$91,557.88</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	0

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,375.00	SY	\$5.00	\$31,875.00
285-701	OPTIONAL BASE,BASE GROUP 01	5,246.91	SY	\$15.00	\$78,703.65
334-1-11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	432.87	TN	\$122.37	\$52,970.30

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	3,935.00	LF	\$30.00	\$118,050.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0



**Roadway Component Total**

\$281,598.95

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	7,870.37 LF	\$1.37	\$10,782.41
104-11	FLOATING TURBIDITY BARRIER	186.32 LF	\$9.79	\$1,824.07
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	186.32 LF	\$4.06	\$756.46
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	39.00 EA	\$113.29	\$4,418.31
107-1	LITTER REMOVAL	9.03 AC	\$40.27	\$363.64
107-2	MOWING	9.03 AC	\$58.12	\$524.82
<b>Shoulder Component Total</b>				<b>\$21,586.71</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-521	INLETS, DT BOT, TYPE C, <10'	14.00 EA	\$3,482.18	\$48,750.52
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	3,936.00 LF	\$92.51	\$364,119.36
<b>Drainage Component Total</b>				<b>\$412,869.88</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	6.00 AS	\$342.00	\$2,052.00
<b>Signing Component Total</b>				<b>\$2,052.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value
Spacing				MIN
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	3,935.18 LF	\$8.43	\$33,173.57
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	781.07 LF	\$20.45	\$15,972.88



635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	27.00 EA	\$709.00	\$19,143.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	14,372.37 LF	\$2.20	\$31,619.21
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	27.00 EA	\$5,800.00	\$156,600.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	27.00 EA	\$556.00	\$15,012.00
	<b>Subcomponent Total</b>			\$271,520.66
	<b>Lighting Component Total</b>			\$271,520.66
<hr/>				
<b>Sequence 26 Total</b>				\$1,081,186.08
<hr/>				



**Sequence:** 30 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Signing, Tolling, and Barrier Emergency Access Gate and WWD Detection System**Special** WWD Detection Systems at the following locations: I-275 EB Exit 41A Dale Mabry Hwy, I-275**Conditions:** WB Exit 41A Dale Mabry Hwy, I-275 WB Exit 41B Green Street/Himes Avenue, I-275 EB Exit 42 @ Armenia and Howard Avenues, I-275 WB Exit 42 @ Armenia and Howard Avenues.**SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-13	SINGLE POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$1,708.00	\$1,708.00
700-3-201	SIGN PANEL, F&I OM, UP TO 12 SF	6.00 EA	\$576.00	\$3,456.00
700-3-202	SIGN PANEL, F&I OM, 12-20 SF	3.00 EA	\$953.00	\$2,859.00
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	19.00 EA	\$1,219.00	\$23,161.00
700-3-205	SIGN PANEL, F&I OM, 51-100 SF	9.00 EA	\$3,601.00	\$32,409.00
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	28.00 EA	\$4,333.00	\$121,324.00
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	22.00 EA	\$6,685.00	\$147,070.00
700-3-208	SIGN PANEL, F&I OM, 301-400 SF	10.00 EA	\$9,745.00	\$97,450.00
700-3-209	SIGN PANEL, F&I OM, 401-500 SF	3.00 EA	\$15,300.00	\$45,900.00
700-3-210	SIGN PANEL, F&I OM, 501-600 SF	1.00 EA	\$19,368.00	\$19,368.00
700-3-211	SIGN PANEL, F&I OM, 601 SF AND GREATER	3.00 EA	\$22,600.00	\$67,800.00
700-4-133	OH STATIC SIGN STR, F&I, M 31-40 FT	6.00 EA	\$54,400.00	\$326,400.00
700-4-134	OH STATIC SIGN STR, F&I, M 41-50 FT	6.00 EA	\$105,000.00	\$630,000.00
700-4-135	OH STATIC SIGN STR, F&I, M SP 51-100 FT	5.00 EA	\$136,000.00	\$680,000.00
700-4-136	OH STATIC SGN STR, F&I, M SP 101-150 FT	13.00 EA	\$204,000.00	\$2,652,000.00
	<b>Comment:</b> Replace span monotube structures			
700-4-140	OH STATIC SIGN STR, F&I, O BR MOUNT	1.00 EA	\$11,252.00	\$11,252.00
700-4-630	OVERHEAD STATIC SIGN STRUCTURE, REM MONO	7.00 EA	\$9,054.00	\$63,378.00
700-4-635	OH STATIC SIGN STR, REMOVE MONOTUBE	7.00 EA	\$10,500.00	\$73,500.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
660-7	WWD DETECTION SYSTEM	5.00 EA	\$50,000.00	\$250,000.00
BEAGAT	BARRIER EMERGENCY ACCESS GATE	2.00 EA	\$225,000.00	\$450,000.00

**Signing Component Total**

\$5,699,035.00

**ARCHITECTURAL COMPONENT****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
735-74-1	TOLL PLAZA, LOCATION 1	1.00 LS	\$1,500,000.00	\$1,500,000.00



<b>Comment:</b> Lois I-275 Toll Site (2 Cantilevers) \$1.5 million				
735-74-2	TOLL PLAZA, LOCATION 2	2.00 LS	\$1,150,000.00	\$2,300,000.00
<b>Comment:</b> Howard I-275 SB Toll Site (1 Cantilever) \$1.15 million MacDill I-275 NB Toll Site (1 Cantilever) \$1.15 million				
<b>Architectural Component Total</b>				\$3,800,000.00
<b>Sequence 30 Total</b>				\$9,499,035.00



**Sequence:** 31 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** ITS, Including ADMS at Howard (1), Armenia (1), and Macdill (2 - EL)**SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-7-132	EMBED DYNAMIC MESS SIGN, F&I, FULL, 12-20	4.00	EA	\$31,050.00	\$124,200.00
700-8-135	FRONT ACC DYN MESS SIGN, F&I, FUL, 51-100	2.00	EA	\$75,000.00	\$150,000.00
700-9-137	WALK-IN DYN MESS SIGN, F&I, FULL, 201-	5.00	EA	\$126,800.00	\$634,000.00
700-10-116	DMS SUPPORT STRUCTURE, SPAN, 101-150 FT	3.00	EA	\$218,000.00	\$654,000.00
700-10-124	DMS SUPPORT STRUCTURE, CANT, 41-50 FT	2.00	EA	\$74,952.00	\$149,904.00
<b>Signing Component Total</b>					<b>\$1,712,104.00</b>

**SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-6-1	ELECTRICAL POWER SERVICE-TRANSF, F&I	39.00	EA	\$1,500.00	\$58,500.00
641-2-12	PREST CNC POLE, F&I, TYP P-II SRV POLE	39.00	EA	\$1,468.00	\$57,252.00
641-2-13	PREST CNC POLE, F&I, TYP P-III	25.00	EA	\$4,174.00	\$104,350.00
649-2-150	STEEL CCTV POLE, F&I W/ LOW, 50'	6.00	EA	\$21,108.00	\$126,648.00
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCL-NP.	4.00	EA	\$5,957.00	\$23,828.00
682-1-153	ITS CCTV CAMERA, F&I, STATIONARY, IP, HI	18.00	EA	\$9,585.00	\$172,530.00
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	14.00	EA	\$1,032.45	\$14,454.30
<b>Signalizations Component Total</b>					<b>\$557,562.30</b>

**INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT****Description of Work****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	5,945.00	LF	\$8.43	\$50,116.35
630-2-12	CONDUIT, F&I, DIRECTIONAL BORE	25,680.00	LF	\$20.45	\$525,156.00
630-2-14	CONDUIT, F&I, ABOVEGROUND	840.00	LF	\$23.18	\$19,471.20



633-1-121	FIBER OPTIC CABLE, F&I, UG,2-12	23,980.00 LF	\$2.87	\$68,822.60
633-1-124	FIBER OPTIC CABLE, F&I, UG,97-144	39,360.00 LF	\$3.56	\$140,121.60
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	838.00 EA	\$42.60	\$35,698.80
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERM	280.00 EA	\$84.48	\$23,654.40
633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	22.00 EA	\$890.00	\$19,580.00
633-3-14	FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O	22.00 EA	\$97.87	\$2,153.14
633-3-16	FIBER OPTIC CONN HDWR, PATCH PANEL- FIE	22.00 EA	\$1,717.50	\$37,785.00
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	3,160.00 LF	\$5.07	\$16,021.20
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	102.00 EA	\$709.00	\$72,318.00
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	66.00 EA	\$1,480.50	\$97,713.00
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	10.00 EA	\$2,689.00	\$26,890.00
639-1-121	ELECTRICAL POWER SRV,F&I, UG,FUR BY POWE	6.00 AS	\$2,900.00	\$17,400.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	47,685.00 LF	\$6.00	\$286,110.00
639-3-11	ELEC SERV DISCON, F&I, POLE MNT	36.00 EA	\$950.00	\$34,200.00
660-3-11	VEHICLE DETECTION SYSTEM-MICRO,F&I, CAB	22.00 EA	\$2,894.00	\$63,668.00
660-3-12	VEHICLE DETECTION SYSTEM-MICRO,F&I, ABO	22.00 EA	\$7,287.00	\$160,314.00
676-2-122	ITS CABINET- F&I, POLE, 336S	4.00 EA	\$7,824.00	\$31,296.00
676-2-143	ITS CABINET- F&I, BASE, 334	18.00 EA	\$9,337.00	\$168,066.00
676-3-10	SMALL EQUIPMENT ENCLOSURE, F&I,>10X13X11	38.00 EA	\$1,181.00	\$44,878.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	22.00 EA	\$4,866.00	\$107,052.00

**EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-5-2	EMERGENCY GENERATOR-PERMANENT	2.00	EA	\$70,000.00	\$140,000.00
688-1-10	ROAD WEATHER INFORMATION SYSTEM	1.00	EA	\$70,000.00	\$70,000.00

**Intelligent Traffic System (ITS) Component Total**

\$2,258,485.29

**Sequence 31 Total**

\$4,528,151.59



**Sequence:** 32 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Hardscape and Irrigation Extension

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**MISCELLANEOUS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
HARD-IRREXT	HARDSCAPE AND IRRIGATION EXTENSION (5% OF PROJECT SEQUENCES SUBTOTAL)	1.00	LS	\$7,658,398.14	\$7,658,398.14

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<b>Miscellaneous Component Total</b>					\$7,658,398.14
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<b>Sequence 32 Total</b>					\$7,658,398.14
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**Sequence:** 33 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Replace all bridge underdeck pendant luminaires with wall mount luminaires; LED retrofit of all pole mount luminaires and bridge underdeck wall mount luminaires.**LIGHTING COMPONENT****Conventional Lighting Subcomponent****Description**

Spacing

**Value**

MAX

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	34.00 EA	\$709.00	\$24,106.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	8,200.00 LF	\$2.20	\$18,040.00
<b>Subcomponent Total</b>				\$42,146.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-15	CONDUIT, F& I, BRIDGE MOUNT	7,488.00 LF	\$27.12	\$203,074.56
630-2-65	CONDUIT, REMOVE, BRIDGE MOUNT	4,200.00 LF	\$6.60	\$27,720.00
715-1-60	LIGHTING CONDUCTORS,R&D, CONT OWNS	4,200.00 LF	\$0.43	\$1,806.00
715-11-115	LUMINAIRE, F&I, ROADWAY, WALL MOUNT	82.00 EA	\$1,670.00	\$136,940.00
715-11-500	LUMINAIRE, REMOVE	42.00 EA	\$165.00	\$6,930.00
715-21-2	LIGHTING REPAIRS AND RETROFITS, LED RETR	325.00 EA	\$1,190.00	\$386,750.00
<b>Lighting Component Total</b>				\$805,366.56

**Sequence 33 Total**

\$805,366.56



**Sequence:** 34 MIS - Miscellaneous Construction**Net Length:** 0.653 MI  
3,448 LF**Description:** I-275 Greenway - Dale Mabry Overpass Grady Avenue to Himes Avenue Suntrail Candidate**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 0.00
Incidental Clearing and Grubbing Area	0.00

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.85	AC	\$15,000.00	\$42,750.00
120-1	REGULAR EXCAVATION	3,067.00	CY	\$9.00	\$27,603.00
120-6	EMBANKMENT	8,186.00	CY	\$17.00	\$139,162.00
<b>Comment:</b> Ramp Estimate = $(1/2(625*25)*14/27) = 4,051\text{CY} * 2 \text{ sides} = 8,102\text{CY}$ . Other based on MP Limits change					

<b>Earthwork Component Total</b>	<b>\$209,515.00</b>
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**ROADWAY COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
107-1	LITTER REMOVAL	14.25	AC	\$40.27	\$573.85
107-2	MOWING	8.55	AC	\$58.12	\$496.93
160-4	TYPE B STABILIZATION	6,613.00	SY	\$5.00	\$33,065.00
285-701	OPTIONAL BASE,BASE GROUP 01	4,960.00	SY	\$15.00	\$74,400.00
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	546.00	TN	\$102.00	\$55,692.00
400-0-11	CONC CLASS NS, GRAVITY WALL	336.00	CY	\$600.00	\$201,600.00
515-2-211	PED/BICYCLE RAILING,STL, 42" TYPE 1	3,840.00	LF	\$112.00	\$430,080.00
521-6-31	CONC PARAPET, RETAINING WALL SYS, 27"	3,200.00	LF	\$185.00	\$592,000.00
550-10-222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COAT	6,900.00	LF	\$19.00	\$131,100.00
550-10-353	FENCING, TYPE R, 8.1-10', W/FULL ENCLOS	1,000.00	LF	\$277.00	\$277,000.00
570-1-2	PERFORMANCE TURF, SOD	6,440.00	SY	\$3.20	\$20,608.00
710-11-201	PAINTED PAVT MARK,STD,YELLOW,SOLID,6"	0.38	GM	\$1,454.00	\$552.52
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	100.00	LF	\$5.30	\$530.00

<b>Roadway Component Total</b>	<b>\$1,817,698.30</b>
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**SHOULDER COMPONENT****User Input Data**

Description	Value
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**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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104-1	ARTIFICIAL COVERINGS / ROLL EROSION CNTL	6,440.00 SY	\$2.20	\$14,168.00
104-10-3	SEDIMENT BARRIER	8,280.00 LF	\$1.37	\$11,343.60
104-15	SOIL TRACKING PREVENTION DEVICE	2.00 EA	\$2,917.00	\$5,834.00
104-18	INLET PROTECTION SYSTEM	10.00 EA	\$113.29	\$1,132.90
520-1-10	CONCRETE CURB & GUTTER, TYPE F	150.00 LF	\$24.58	\$3,687.00
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	1,000.00 SY	\$60.00	\$60,000.00
527-2	DETECTABLE WARNINGS	432.00 SF	\$29.00	\$12,528.00
<b>Shoulder Component Total</b>				<b>\$108,693.50</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-1-2	CONC CLASS I, ENDWALLS	12.00 CY	\$1,362.61	\$16,351.32
430-174-118	PIPE CULV, OPT MATL, ROUND,18"SD	256.00 LF	\$91.38	\$23,393.28
430-174-154	PIPE CULV, OPT MATL, ROUND,54"SD	256.00 LF	\$295.50	\$75,648.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-11	DRAINAGE STRUCTURE MODIFY	2.00 EA	\$2,578.00	\$5,156.00

**Drainage Component Total****\$120,548.60****SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	14.00 AS	\$342.00	\$4,788.00

**Signing Component Total****\$4,788.00****SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	2 Lane Mast Arm
Multiplier	1
Description	Move signal equipment south at southern ramp due to obstruction with ped overpass -- use 2 lane mast arm since only part of the signalization will be impacted

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F&I, OPEN TRENCH	800.00 LF	\$8.43	\$6,744.00
630-2-12		200.00 LF	\$20.45	\$4,090.00



	CONDUIT, F& I, DIRECTIONAL BORE			
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$5,034.00	\$5,034.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00 EA	\$709.00	\$8,508.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$2,684.00	\$2,684.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$6.00	\$360.00
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	4.00 EA	\$48,000.00	\$192,000.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	8.00 AS	\$946.00	\$7,568.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$634.00	\$5,072.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	8.00 EA	\$468.00	\$3,744.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	8.00 AS	\$944.00	\$7,552.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$261.00	\$2,088.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$33,949.00	\$33,949.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$194.00	\$776.00
<b>Signalizations Component Total</b>				<b>\$280,169.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value	
Spacing				MAX	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	3,447.84	LF	\$8.43	\$29,065.29
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	684.34	LF	\$20.45	\$13,994.75
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	23.00	EA	\$709.00	\$16,307.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	12,592.45	LF	\$2.20	\$27,703.39
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	23.00	EA	\$5,800.00	\$133,400.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	23.00	EA	\$556.00	\$12,788.00
Subcomponent Total					\$233,258.43
X-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-4-21	LIGHT POLE COMPLETE, F&I- STD P, SP, 30'	20.00	EA	\$7,270.00	\$145,400.00
Lighting Component Total					\$378,658.43

**BRIDGES COMPONENT**

<b>Bridge 1</b>	<b>Value</b>
<b>Description</b>	



Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	360.00
Width (LF)	14.00
Type	Pedestrian Overpass
Cost Factor	1.00
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$273.00
Factored Cost per SF	\$273.00
<b>Final Cost per SF</b>	<b>\$273.00</b>
<b>Basic Bridge Cost</b>	<b>\$1,375,920.00</b>
Description	PEDESTRIAN BRIDGE OVER DALE MABRY

<b>Bridge 1 Total</b>	\$1,375,920.00
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<b>Bridges Component Total</b>	\$1,375,920.00
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### RETAINING WALLS COMPONENT

#### Retaining Wall 1

Description	Value
Length	1,250.00
Begin height	3.00
End Height	25.00
Multiplier	1

#### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	17,500.00	SF	\$29.35	\$513,625.00

#### Retaining Wall 2

Description	Value
Length	1,250.00
Begin height	3.00
End Height	25.00
Multiplier	1

#### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	17,500.00	SF	\$29.35	\$513,625.00

<b>Retaining Walls Component Total</b>	\$1,027,250.00
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<b>Sequence 34 Total</b>	\$5,323,240.83
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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 434045-2-52-01**Letting Date:** 07/2023**Description:** I-275 (SR 93) FROM S OF LOIS AVE TO N OF HILLSBOROUGH RIVER**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 3.344 MI**Project Manager:** PRD-MLG**Version 28-P Project Grand Total****\$235,251,442.47****Description:** Section 5 Option D, 2020 WPUC. Creator: Garry Fischbach / AECOM, Checker: Dave Panigrahi / Lochner

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**Project Sequences Subtotal** **\$160,826,360.91**

102-1	Maintenance of Traffic	10.00 %	\$16,082,636.09
101-1	Mobilization	8.00 %	\$14,152,719.76

**Project Sequences Total** **\$191,061,716.76**

Project Unknowns	15.00 %	\$28,659,257.51
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**Justification for high** Recommended MOT is 2% higher than the guideline due to MOT  
**%:** costs on the existing lanes, outside shoulders, and cross roads,  
 which are not otherwise included in the construction.

Design/Build	7.00 %	\$15,380,468.20
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**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

**Project Non-Bid Subtotal** **\$150,000.00**
**Version 28-P Project Grand Total****\$235,251,442.47**



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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445056-1-52-01**Letting Date:** 07/2025**Description:** I-4 (SR 400) WB to I-275 (SR 93) NB Widening from W. of 14th St. to S. of Floribrasca Ave.**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 **Lump Sum Project:** N**Design/Build:** Y**Project Length:** 0.777 MI**Project Manager:** Craig Fox**Version 6 Project Grand Total****\$19,399,809.35****Description:** 2020 WPUC (Creator: Brad Isler/HDR; Checker: Dave Panigrahi/Lochner)**Sequence:** 1 NUR - New Construction, Undivided, Rural**Net Length:** 0.764 MI  
4,034 LF**Description:** I-4 (SR 400) WB to I-275 (SR 93) NB Widening from W. of 14th St. to S. of Floribrasca Ave.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	0.00 / 40.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.764
Top of Structural Course For Begin Section	126.50
Top of Structural Course For End Section	126.50
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	3.70	AC	\$15,000.00	\$55,500.00
120-6	EMBANKMENT	94,552.10	CY	\$15.00	\$1,418,281.50
<b>Earthwork Component Total</b>					<b>\$1,473,781.50</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	11,205.33	SY	\$6.50	\$72,834.64



285-702	OPTIONAL BASE,BASE GROUP 02	6,871.11 SY	\$22.50	\$154,599.98
350-3-17	PLAIN CEMENT CONC PAVT, 14"	6,723.20 SY	\$97.00	\$652,150.40

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC <b>Comment:</b> 4,035' x 12' x 1 sy/9 sf = 5,380 SY	5,380.00 SY	\$22.13	\$119,059.40
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	4,035.00 LF	\$31.85	\$128,514.75
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	400.00 LF	\$30.00	\$12,000.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.76 GM	\$25,839.00	\$19,637.64
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.76 GM	\$8,406.00	\$6,388.56

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	2.29 GM	\$4,143.00	\$9,487.47

**Roadway Component Total**

\$1,174,672.85

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 9.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	4,181.83 SY	\$18.00	\$75,272.94
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	554.66 TN	\$98.00	\$54,356.68
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.76 GM	\$1,355.00	\$1,029.80

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION <b>Comment:</b> 557' x 10' x 1 sy/9 sf = 619 SY	619.00 SY	\$6.50	\$4,023.50



285-707	OPTIONAL BASE,BASE GROUP 07 <b>Comment:</b> 8' x 557' x 1 sy/9 sf = 495 SY	495.00 SY	\$18.00	\$8,910.00
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D <b>Comment:</b> 495 sy x 275 lbs/sy x 1 tn/2,000 lbs = 68.1 TN	68.10 TN	\$98.00	\$6,673.80
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	557.00 LF	\$265.00	\$147,605.00
570-1-2	PERFORMANCE TURF, SOD <b>Comment:</b> 4,035' x 5' x 1 sy/9 sf = 2,242 SY	2,242.00 SY	\$3.20	\$7,174.40

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	10,488.19 LF	\$1.37	\$14,368.82
104-11	FLOATING TURBIDITY BARRIER	191.00 LF	\$9.79	\$1,869.89
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	191.00 LF	\$4.06	\$775.46
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	9.26 AC	\$40.27	\$372.90
107-2	MOWING	9.26 AC	\$58.12	\$538.19
<b>Shoulder Component Total</b>				\$325,888.38

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	13.75 CY	\$1,347.35	\$18,526.06
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	616.00 LF	\$85.17	\$52,464.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	136.00 LF	\$140.30	\$19,080.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	31.00 EA	\$1,611.00	\$49,941.00
570-1-1	PERFORMANCE TURF	537.86 SY	\$2.10	\$1,129.51

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	14.00 EA	\$6,457.00	\$90,398.00
<b>Drainage Component Total</b>				\$231,540.09

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	16.00 AS	\$1,288.00	\$20,608.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$4,159.00	\$8,318.00
<b>Signing Component Total</b>				\$29,610.00



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**BRIDGES COMPONENT**
**Bridge X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	4,035.00	LF	\$483.00	\$1,948,905.00
<b>Bridge Total</b>					\$1,948,905.00
<b>Bridges Component Total</b>					\$1,948,905.00

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**RETAINING WALLS COMPONENT****Retaining Wall 1**

<b>Description</b>	<b>Value</b>
Length	4,035.00
Begin height	26.50
End Height	26.50
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	106,927.50	SF	\$29.35	\$3,138,322.12
<b>Retaining Walls Component Total</b>					\$3,138,322.13

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<b>Sequence 1 Total</b>					\$8,322,719.95
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**Sequence:** 2 NUU - New Construction, Undivided, Urban**Net Length:** 0.092 MI  
483 LF**Description:** Frontage Roads (E. 14th Ave and N. Taliaferro Ave)**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.092
Top of Structural Course For Begin Section	101.00
Top of Structural Course For End Section	101.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.56	AC	\$15,000.00	\$8,400.00
120-6	EMBANKMENT	514.01	CY	\$15.00	\$7,710.15
<b>Earthwork Component Total</b>					<b>\$16,110.15</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,565.31	SY	\$6.50	\$10,174.52
285-709	OPTIONAL BASE,BASE GROUP 09	1,288.32	SY	\$18.00	\$23,189.76
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	177.14	TN	\$115.00	\$20,371.10
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	106.29	TN	\$120.00	\$12,754.80

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	12.00 EA	\$5.82	\$69.84
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.37 GM	\$1,064.00	\$393.68
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.18 GM	\$442.00	\$79.56
<b>Roadway Component Total</b>				<b>\$67,033.26</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	7.25 / 12.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	0.00 / 5.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	483.12 LF	\$24.58	\$11,875.09
520-1-10	CONCRETE CURB & GUTTER, TYPE F	483.12 LF	\$24.58	\$11,875.09
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	268.40 SY	\$46.00	\$12,346.40
570-1-1	PERFORMANCE TURF	536.80 SY	\$2.10	\$1,127.28

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	966.24 LF	\$1.37	\$1,323.75
104-11	FLOATING TURBIDITY BARRIER	22.88 LF	\$9.79	\$224.00
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	22.88 LF	\$4.06	\$92.89
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	5.00 EA	\$113.29	\$566.45
107-1	LITTER REMOVAL	1.11 AC	\$40.27	\$44.70
107-2	MOWING	1.11 AC	\$58.12	\$64.51
<b>Shoulder Component Total</b>				<b>\$42,457.16</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	1.65 CY	\$1,347.35	\$2,223.13
425-1-351	INLETS, CURB, TYPE P-5, <10'	4.00 EA	\$5,211.58	\$20,846.32



425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$8,211.06	\$8,211.06
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$3,482.18	\$3,482.18
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$5,347.00	\$5,347.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	216.00 LF	\$92.51	\$19,982.16
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$140.30	\$3,367.20
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	464.00 LF	\$183.79	\$85,278.56
570-1-1	PERFORMANCE TURF	27.82 SY	\$2.10	\$58.42
<b>Drainage Component Total</b>				<b>\$148,796.03</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>				<b>\$8,133.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value	
Spacing				MAX	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	483.12	LF	\$8.43	\$4,072.70
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	63.04	LF	\$20.45	\$1,289.17
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	2.00	EA	\$709.00	\$1,418.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,638.49	LF	\$2.20	\$3,604.68
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	2.00	EA	\$5,800.00	\$11,600.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	2.00	EA	\$556.00	\$1,112.00
Subcomponent Total					\$23,096.55
Lighting Component Total					\$23,096.55

<b>Sequence 2 Total</b>	<b>\$305,626.15</b>
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**Sequence:** 3 WUU - Widen/Resurface, Undivided, Urban**Net Length:** 0.074 MI  
389 LF**Description:** Bridges**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	0
Existing Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	165
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	165

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.07	GM	\$25,839.00	\$1,808.73
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.07	GM	\$25,889.00	\$1,812.23
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.07	GM	\$8,406.00	\$588.42

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$4,209.38

**BRIDGES COMPONENT****Bridge 1**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	207.00
Width (LF)	13.50
Type	Medium Level, Widen
Cost Factor	1.00
Structure No.	100650
Removal of Existing Structures area	1,293.75
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$183.69</b>
<b>Basic Bridge Cost</b>	<b>\$391,230.00</b>
Description	

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3		1,293.75	SF	\$34.00	\$43,987.50



	REMOVAL OF EXISTING STRUCTURES/BRIDGES			
400-2-10	CONC CLASS II, APPROACH SLABS	30.00 CY	\$533.96	\$16,018.80
415-1-9	REINF STEEL- APPROACH SLABS	5,250.00 LB	\$1.16	\$6,090.00

**Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	207.00 LF	\$483.00	\$99,981.00

**Bridge 1 Total** \$557,307.30

**Bridge 2**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	182.00
Width (LF)	19.75
Type	Medium Level, Widen
Cost Factor	1.00
Structure No.	100652
Removal of Existing Structures area	637.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$173.45</b>
<b>Basic Bridge Cost</b>	<b>\$503,230.00</b>
Description	I-4WB/I-275 NB OVER COLUMBUS DR

**Bridge Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	637.00 SF	\$34.00	\$21,658.00
400-2-10	CONC CLASS II, APPROACH SLABS	43.89 CY	\$533.96	\$23,435.50
415-1-9	REINF STEEL- APPROACH SLABS	7,680.75 LB	\$1.16	\$8,909.67

**Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	182.00 LF	\$483.00	\$87,906.00

**Bridge 2 Total** \$645,139.17

**Bridges Component Total** \$1,202,446.47

**Sequence 3 Total** \$1,206,655.85



**Sequence:** 4 MIS - Miscellaneous Construction**Net Length:** 0.777 MI  
4,103 LF**Description:** Lighting**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

20

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	4,000.00 LF	\$8.43	\$33,720.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	20.00 EA	\$709.00	\$14,180.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	12,000.00 LF	\$2.20	\$26,400.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	20.00 EA	\$6,413.00	\$128,260.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	20.00 EA	\$556.00	\$11,120.00
<b>Subcomponent Total</b>				\$213,680.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	20.00 EA	\$800.00	\$16,000.00

**Lighting Component Total**

\$229,680.00

**Sequence 4 Total**

\$229,680.00



**Sequence:** 5 MIS - Miscellaneous Construction**Net Length:** 0.777 MI  
4,103 LF**Description:** Drainage Retention Basin**DRAINAGE COMPONENT****Retention Basin 1**

<b>Description</b>	<b>Value</b>
Size	5 AC
Multiplier	1
Depth	6.00
Description	

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	5.00	AC	\$15,000.00	\$75,000.00
120-1	REGULAR EXCAVATION	48,400.00	CY	\$9.00	\$435,600.00
400-2-2	CONC CLASS II, ENDWALLS	30.00	CY	\$1,347.35	\$40,420.50
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00	EA	\$3,985.89	\$3,985.89
425-2-71	MANHOLES, J-7, <10'	2.00	EA	\$6,664.77	\$13,329.54
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00	LF	\$157.60	\$8,825.60
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00	LF	\$378.86	\$151,544.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00	LF	\$15.84	\$29,462.40
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	2.00	EA	\$2,097.00	\$4,194.00
570-1-1	PERFORMANCE TURF	24,200.00	SY	\$2.10	\$50,820.00
<b>Drainage Component Total</b>					<b>\$813,181.93</b>

<b>Sequence 5 Total</b>	<b>\$813,181.93</b>
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**Sequence:** 6 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** ITS**Special** Estimates provided by HWL, 1/17/2020**Conditions:****ROADWAY COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
646-2-135	ALUMINUM POLE- INDEX 17900, F&I, 35'	6.00	EA	\$4,266.00	\$25,596.00

**EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
688-1-10	ROAD WEATHER INFORMATION SYSTEM (RWIS)	1.00	EA	\$70,000.00	\$70,000.00

<b>Roadway Component Total</b>					\$95,596.00
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**SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-6-1	ELECTRICAL POWER SERVICE- TRANSF, F&I	9.00	EA	\$1,500.00	\$13,500.00

<b>Signing Component Total</b>					\$13,500.00
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**SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	4,981.00	LF	\$8.43	\$41,989.83
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	11,625.00	LF	\$20.45	\$237,731.25
630-2-14	CONDUIT, F& I, ABOVEGROUND	405.00	LF	\$23.18	\$9,387.90
633-1-121	FIBER OPTIC CABLE, F&I, UG,2-12	1,800.00	LF	\$2.87	\$5,166.00
633-1-124	FIBER OPTIC CABLE, F&I, UG,97-144	18,734.00	LF	\$3.56	\$66,693.04
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	288.00	EA	\$42.60	\$12,268.80
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERM	144.00	EA	\$84.48	\$12,165.12
633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	9.00	EA	\$890.00	\$8,010.00
633-3-14	FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O	9.00	EA	\$97.87	\$880.83
633-3-16	FIBER OPTIC CONN HDWR, PATCH PANEL- FIE	9.00	EA	\$1,717.50	\$15,457.50
633-8-1		330.00	LF	\$5.07	\$1,673.10



	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I			
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$709.00	\$15,598.00
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	15.00 EA	\$1,480.50	\$22,207.50
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	4.00 EA	\$2,689.00	\$10,756.00
639-1-121	ELECTRICAL POWER SRV,F&I, UG,FUR BY POWE	9.00 AS	\$2,900.00	\$26,100.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	4,050.00 LF	\$6.00	\$24,300.00
639-3-11	ELEC SERV DISCON, F&I, POLE MNT	9.00 EA	\$950.00	\$8,550.00
641-2-12	PREST CNC POLE,F&I,TYP P-II SRV POLE	9.00 EA	\$1,468.00	\$13,212.00
649-2-150	STEEL CCTV POLE, F&I W/ LOW, 50'	3.00 EA	\$21,108.00	\$63,324.00
660-3-11	VEHICLE DETECTION SYSTEM- MICRO,F&I, CAB	19.00 EA	\$2,894.00	\$54,986.00
660-3-12	VEHICLE DETECTION SYSTEM- MICRO,F&I, ABO	19.00 EA	\$7,287.00	\$138,453.00
676-2-122	ITS CABINET- F&I, POLE, 336S	6.00 EA	\$7,824.00	\$46,944.00
676-2-143	ITS CABINET- F&I, BASE, 334	3.00 EA	\$9,337.00	\$28,011.00
676-3-10	SMALL EQUIPMENT ENCLOSURE, F&I,>10X13X11	6.00 EA	\$1,181.00	\$7,086.00
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCL-NP.	6.00 EA	\$5,957.00	\$35,742.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	9.00 EA	\$4,866.00	\$43,794.00
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	9.00 EA	\$1,032.45	\$9,292.05
685-1-11	UPS POWER SUPPLY, F&I, LINE INTERACTIVE	9.00 EA	\$5,502.00	\$49,518.00
<b>Signalizations Component Total</b>				<b>\$1,009,296.92</b>
<b>Sequence 6 Total</b>				<b>\$1,118,392.92</b>



**Sequence:** 7 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Signing**Special** Estimates provided by HWL, 1/13/2020**Conditions:****SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	4.00	EA	\$1,219.00	\$4,876.00
700-3-211	SIGN PANEL, F&I OM, 601 SF AND GREATER	2.00	EA	\$22,600.00	\$45,200.00
700-4-135	OH STATIC SIGN STR, F&I, M SP 51-100 FT	1.00	EA	\$136,000.00	\$136,000.00
700-4-635	OH STATIC SIGN STR, REMOVE MONOTUBE	1.00	EA	\$10,500.00	\$10,500.00
	<b>Comment:</b> In place of 700-4-636, OH SIGN STRUCTURE, REMOVE MONOTUBE, 101-150 FT (Not available in LRE system)				
Signing Component Total					\$196,576.00
Sequence 7 Total					\$196,576.00



**Sequence:** 8 MIS - Miscellaneous Construction**Net Length:** 0.777 MI  
4,103 LF**Description:** Aesthetics

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**MISCELLANEOUS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
AESTH	AESTHETICS <b>Comment:</b> 10% of Sequences 1-7	1.00	LS	\$1,219,283.28	\$1,219,283.28
<b>Miscellaneous Component Total</b>					\$1,219,283.28
<b>Sequence 8 Total</b>					\$1,219,283.28

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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445056-1-52-01**Letting Date:** 07/2025**Description:** I-4 (SR 400) WB to I-275 (SR 93) NB Widening from W. of 14th St. to S. of Floribrasca Ave.**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 0.777 MI**Project Manager:** Craig Fox**Version 6 Project Grand Total****\$19,399,809.35****Description:** 2020 WPUC (Creator: Brad Isler/HDR; Checker: Dave Panigrahi/Lochner)

<b>Project Sequences Subtotal</b>	<b>\$13,412,116.08</b>
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102-1	Maintenance of Traffic	8.00 %	\$1,072,969.29
101-1	Mobilization	8.00 %	\$1,158,806.83

<b>Project Sequences Total</b>	<b>\$15,643,892.20</b>
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Project Unknowns	15.00 %	\$2,346,583.83
Design/Build	7.00 %	\$1,259,333.32

**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

<b>Project Non-Bid Subtotal</b>	<b>\$150,000.00</b>
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**Version 6 Project Grand Total****\$19,399,809.35**



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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445056-2-52-01**Letting Date:** 07/2025**Description:** I-275/SR 93 SB/I-4/SR 400 WB from N of Morgan St to W of N 12th St**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 1.493 MI**Project Manager:** Craig Fox**Version 3 Project Grand Total****\$60,100,768.53****Description:** 2020 WPUC (Creator: Brad Isler/HDR; Checker: Dave Panigrahi/Lochner)**Sequence:** 1 WUR - Widen/Resurface, Undivided, Rural**Net Length:** 0.350 MI  
1,850 LF**Description:** I-4 WB to I-275 SB, GP, From Morgan Street to W of N 12th Street.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.350
Top of Structural Course For Begin Section	127.00
Top of Structural Course For End Section	127.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.55	AC	\$15,000.00	\$38,250.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	43,558.04	CY	\$22.00	\$958,276.88
<b>Earthwork Component Total</b>					<b>\$996,526.88</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	0.00 / 12.00
Structural Spread Rate	0
Friction Course Spread Rate	0
Widened Outside Pavement Width L/R	16.00 / 12.00



Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	10,278.40	SY	\$6.50	\$66,809.60
285-702	OPTIONAL BASE,BASE GROUP 02	5,891.58	SY	\$22.50	\$132,560.55
350-3-17	PLAIN CEMENT CONC PAVT, 14"	5,755.90	SY	\$97.00	\$558,322.30

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	4,933.00	SY	\$22.13	\$109,167.29
	<b>Comment:</b> 1,850' x 24' x 1 sy/9 sf = 4,933 SY				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	3,700.00	LF	\$31.85	\$117,845.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	370.00	LF	\$30.00	\$11,100.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.35	GM	\$25,839.00	\$9,043.65
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.35	GM	\$25,889.00	\$9,061.15
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.35	GM	\$8,406.00	\$2,942.10

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	3

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	237.00	EA	\$5.82	\$1,379.34
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.70	GM	\$4,143.00	\$2,900.10
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	1.05	GM	\$1,316.00	\$1,381.80

**Roadway Component Total**

\$1,022,512.88

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.00 / 10.00
New Total Outside Shoulder Width L/R	12.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	12.00 / 10.00
New Paved Outside Shoulder Width L/R	10.00 / 8.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T



Rumble Strips  $\frac{1}{2}$  No. of Sides

2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE, BASE GROUP 07	3,835.90	SY	\$18.00	\$69,046.20
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	508.78	TN	\$98.00	\$49,860.44
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.70	GM	\$1,355.00	\$948.50

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,085.00	LF	\$265.00	\$287,525.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,255.26	LF	\$1.37	\$5,829.71
104-11	FLOATING TURBIDITY BARRIER	35.04	LF	\$9.79	\$343.04
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	35.04	LF	\$4.06	\$142.26
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	0.85	AC	\$40.27	\$34.23
107-2	MOWING	0.85	AC	\$58.12	\$49.40

**Shoulder Component Total**

\$416,809.07

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	6.31	CY	\$1,347.35	\$8,501.78
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	56.00	LF	\$85.17	\$4,769.52
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	24.00	LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00	EA	\$1,611.00	\$6,444.00
570-1-1	PERFORMANCE TURF	141.56	SY	\$2.10	\$297.28

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	12.00	EA	\$6,457.00	\$77,484.00

**Drainage Component Total**

\$100,863.78

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00



700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	8.00 AS	\$1,288.00	\$10,304.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	8.00 AS	\$26.39	\$211.12
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$3,590.00	\$3,590.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$15,318.12</b>

### RETAINING WALLS COMPONENT

#### Retaining Wall 1

Description	Value
Length	1,085.00
Begin height	27.00
End Height	27.00
Multiplier	1

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	29,295.00 SF	\$29.35	\$859,808.25

<b>Retaining Walls Component Total</b>	<b>\$859,808.25</b>
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<b>Sequence 1 Total</b>	<b>\$3,411,838.98</b>
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**Sequence:** 2 NUU - New Construction, Undivided, Urban**Net Length:** 0.038 MI  
200 LF**Description:** Local Roads (Oak Ave, and 10' Greenway Share Path).**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.024
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	103.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.46 AC	\$15,000.00	\$6,900.00
120-6	EMBANKMENT	903.47 CY	\$15.00	\$13,552.05
<b>Earthwork Component Total</b>				<b>\$20,452.05</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	648.36 SY	\$6.50	\$4,214.34
285-709	OPTIONAL BASE,BASE GROUP 09	533.63 SY	\$18.00	\$9,605.34
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	73.37 TN	\$115.00	\$8,437.55
337-7-83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	44.02 TN	\$120.00	\$5,282.40

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION <b>Comment:</b> 522' long x (2+10+2)' wide x 1 sy/9 sf = 812 SY	812.00 SY	\$6.50	\$5,278.00
285-701	OPTIONAL BASE,BASE GROUP 01 <b>Comment:</b> 522' long x 10' wide x 1 sy/9 sf = 580 SY	580.00 SY	\$21.00	\$12,180.00
334-1-11		31.90 TN	\$122.37	\$3,903.60



SUPERPAVE ASPHALTIC CONC,  
TRAFFIC A

**Comment:** 580 sy x 110 lbs/sy x 1 tn/2,000 lbs = 44.7 TN

#### Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	5.00 EA	\$5.82	\$29.10
<b>Roadway Component Total</b>				<b>\$48,930.33</b>

#### SHOULDER COMPONENT

##### User Input Data

Description	Value
Total Outside Shoulder Width L/R	12.25 / 12.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	5.00 / 5.00

#### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	200.11 LF	\$24.58	\$4,918.70
520-1-10	CONCRETE CURB & GUTTER, TYPE F	200.11 LF	\$24.58	\$4,918.70
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	222.35 SY	\$46.00	\$10,228.10
570-1-1	PERFORMANCE TURF	222.35 SY	\$2.10	\$466.94

#### Erosion Control

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	400.22 LF	\$1.37	\$548.30
104-11	FLOATING TURBIDITY BARRIER	9.48 LF	\$9.79	\$92.81
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	9.48 LF	\$4.06	\$38.49
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	0.46 AC	\$40.27	\$18.52
107-2	MOWING	0.46 AC	\$58.12	\$26.74
<b>Shoulder Component Total</b>				<b>\$24,400.88</b>



**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	0.68 CY	\$1,347.35	\$916.20
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$5,211.58	\$10,423.16
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$8,211.06	\$8,211.06
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$3,482.18	\$3,482.18
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$5,347.00	\$5,347.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	96.00 LF	\$92.51	\$8,880.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$140.30	\$1,122.40
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	192.00 LF	\$183.79	\$35,287.68
570-1-1	PERFORMANCE TURF	11.52 SY	\$2.10	\$24.19
<b>Drainage Component Total</b>				<b>\$73,694.83</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,288.00	\$1,288.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>				<b>\$7,791.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent****Description**

Spacing

**Value**

MAX

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	127.78 LF	\$8.43	\$1,077.19
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	16.67 LF	\$20.45	\$340.90
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	1.00 EA	\$709.00	\$709.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	433.35 LF	\$2.20	\$953.37
715-4-13	LIGHT POLE COMPLETE, F&I-STD, 40'	1.00 EA	\$5,800.00	\$5,800.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$556.00	\$556.00
<b>Subcomponent Total</b>				<b>\$9,436.46</b>
<b>Lighting Component Total</b>				<b>\$9,436.46</b>



**Sequence 2 Total****\$184,705.55**

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**Sequence:** 3NUR - New Construction, Undivided, Rural**Net Length:** 0.201 MI  
1,063 LF**Description:** 1 Lane Ramp**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.562
Top of Structural Course For Begin Section	127.00
Top of Structural Course For End Section	127.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.22	AC	\$15,000.00	\$18,300.00
120-6	EMBANKMENT	293,304.85	CY	\$15.00	\$4,399,572.75
<b>Earthwork Component Total</b>					<b>\$4,417,872.75</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	17.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,424.78	SY	\$6.50	\$22,261.07
285-702	OPTIONAL BASE,BASE GROUP 02	2,046.60	SY	\$22.50	\$46,048.50
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,007.63	SY	\$97.00	\$194,740.11

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	1,867.00	SY	\$22.13	\$41,316.71
	<b>Comment:</b> 700' x 24' x 1 sf/9 sy = 1,867 SY				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,063.00	LF	\$31.85	\$33,856.55
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	106.00	LF	\$30.00	\$3,180.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.20	GM	\$25,839.00	\$5,167.80
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.20	GM	\$25,889.00	\$5,177.80

**Pavement Marking Subcomponent**



Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.40	GM	\$4,143.00	\$1,657.20

**Roadway Component Total**

\$353,405.74

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 5.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,258.90	SY	\$18.00	\$22,660.20
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	162.38	TN	\$98.00	\$15,913.24
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.40	GM	\$1,355.00	\$542.00

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,000.00	LF	\$265.00	\$265,000.00

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,763.45	LF	\$1.37	\$3,785.93
104-11	FLOATING TURBIDITY BARRIER	50.32	LF	\$9.79	\$492.63
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	50.32	LF	\$4.06	\$204.30
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	2.44	AC	\$40.27	\$98.26
107-2	MOWING	2.44	AC	\$58.12	\$141.81

**Shoulder Component Total**

\$311,755.37

**DRAINAGE COMPONENT**



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	3.62 CY	\$1,347.35	\$4,877.41
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	168.00 LF	\$85.17	\$14,308.56
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$140.30	\$5,612.00
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	9.00 EA	\$1,611.00	\$14,499.00
570-1-1	PERFORMANCE TURF	141.72 SY	\$2.10	\$297.61

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	4.00 EA	\$6,457.00	\$25,828.00

**Drainage Component Total**

\$65,422.58

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	5.00 AS	\$1,288.00	\$6,440.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00

**Signing Component Total**

\$10,941.00

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	1,000.00
Begin height	27.00
End Height	27.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	27,000.00 SF	\$29.35	\$792,450.00

**Retaining Walls Component Total**

\$792,450.00

**Sequence 3 Total**

\$5,951,847.44



**Sequence:** 4 NUR - New Construction, Undivided, Rural**Net Length:** 0.322 MI  
1,700 LF**Description:** 2 Lane Ramp**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	65.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.408
Top of Structural Course For Begin Section	118.00
Top of Structural Course For End Section	118.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.54	AC	\$15,000.00	\$38,100.00
120-6	EMBANKMENT	202,543.24	CY	\$15.00	\$3,038,148.60
<b>Earthwork Component Total</b>					<b>\$3,076,248.60</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	13.00 / 13.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	8,689.71	SY	\$6.50	\$56,483.12
285-702	OPTIONAL BASE,BASE GROUP 02	5,036.25	SY	\$22.50	\$113,315.62
350-3-17	PLAIN CEMENT CONC PAVT, 14"	4,911.57	SY	\$97.00	\$476,422.29

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	4,533.00	SY	\$22.13	\$100,315.29
	<b>Comment:</b> 1,700' x 24' x 1 sy/9 sf = 4,533 SY				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,700.00	LF	\$31.85	\$54,145.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	215.00	LF	\$30.00	\$6,450.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.41	GM	\$25,839.00	\$10,593.99
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.41	GM	\$25,889.00	\$10,614.49
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.41	GM	\$8,406.00	\$3,446.46



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	43.00 EA	\$5.82	\$250.26
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.29 GM	\$1,064.00	\$1,372.56
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.64 GM	\$470.00	\$300.80
<b>Roadway Component Total</b>				<b>\$833,709.89</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 8.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	10.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	3,147.19 SY	\$18.00	\$56,649.42
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	415.59 TN	\$98.00	\$40,727.82
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.64 GM	\$1,355.00	\$867.20

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,700.00 LF	\$265.00	\$450,500.00
570-1-2	PERFORMANCE TURF, SOD	944.00 SY	\$3.20	\$3,020.80
<b>Comment:</b> 1,700' x 5' x 1 sy/9 sf = 944 SY				

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,420.42 LF	\$1.37	\$6,055.98
104-11	FLOATING TURBIDITY BARRIER	80.50 LF	\$9.79	\$788.10
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	80.50 LF	\$4.06	\$326.83



104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	3.90 AC	\$40.27	\$157.05
107-2	MOWING	3.90 AC	\$58.12	\$226.67
<b>Shoulder Component Total</b>				\$562,236.87

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	5.80 CY	\$1,347.35	\$7,814.63
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	264.00 LF	\$85.17	\$22,484.88
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	56.00 LF	\$140.30	\$7,856.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	13.00 EA	\$1,611.00	\$20,943.00
570-1-1	PERFORMANCE TURF	226.69 SY	\$2.10	\$476.05

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00 EA	\$6,457.00	\$32,285.00

<b>Drainage Component Total</b>	\$91,860.36
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**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00 AS	\$1,288.00	\$9,016.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00

<b>Signing Component Total</b>	\$13,517.00
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**BRIDGES COMPONENT****Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	1,700.00 LF	\$483.00	\$821,100.00

<b>Bridge Total</b>	\$821,100.00
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<b>Bridges Component Total</b>	\$821,100.00
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**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
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Length	1,700.00
Begin height	18.00
End Height	18.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	30,600.00	SF	\$29.35	\$898,110.00

<b>Retaining Walls Component Total</b>	<b>\$898,110.00</b>
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<b>Sequence 4 Total</b>	<b>\$6,296,782.72</b>
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**Sequence:** 5NUR - New Construction, Undivided, Rural**Net Length:** 0.134 MI  
705 LF**Description:** 3 Lane Ramp**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.134
Top of Structural Course For Begin Section	127.00
Top of Structural Course For End Section	127.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.62	AC	\$15,000.00	\$24,300.00
120-6	EMBANKMENT	145,611.81	CY	\$15.00	\$2,184,177.15
<b>Earthwork Component Total</b>					<b>\$2,208,477.15</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	3
Roadway Pavement Width L/R	13.00 / 25.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	4,542.56	SY	\$6.50	\$29,526.64
285-702	OPTIONAL BASE,BASE GROUP 02	3,027.85	SY	\$22.50	\$68,126.62
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,976.16	SY	\$97.00	\$288,687.52

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	3,500.00	SY	\$22.13	\$77,455.00
	<b>Comment:</b> 1,050' x 30' x 1 sy/9 sf = 3,500 SY				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	705.00	LF	\$31.85	\$22,454.25
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	71.00	LF	\$30.00	\$2,130.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.13	GM	\$25,839.00	\$3,359.07
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.13	GM	\$25,889.00	\$3,365.57
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.27	GM	\$8,406.00	\$2,269.62



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	72.00 EA	\$5.82	\$419.04
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.27 GM	\$4,143.00	\$1,118.61
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	0.27 GM	\$1,316.00	\$355.32
<b>Roadway Component Total</b>				<b>\$499,267.27</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 8.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	10.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,304.81 SY	\$18.00	\$23,486.58
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	172.30 TN	\$98.00	\$16,885.40
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.27 GM	\$1,355.00	\$365.85

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	1,050.00 LF	\$265.00	\$278,250.00
570-1-2	PERFORMANCE TURF, SOD	583.00 SY	\$3.20	\$1,865.60
<b>Comment:</b> 1,050' x 5' x 1 sy/9 sf = 583 SY				

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,832.69 LF	\$1.37	\$2,510.79
104-11	FLOATING TURBIDITY BARRIER	33.38 LF	\$9.79	\$326.79
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	33.38 LF	\$4.06	\$135.52



104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.62 AC	\$40.27	\$65.24
107-2	MOWING	1.62 AC	\$58.12	\$94.15
<b>Shoulder Component Total</b>				\$326,902.92

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.40 CY	\$1,347.35	\$3,233.64
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	112.00 LF	\$85.17	\$9,539.04
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	6.00 EA	\$1,611.00	\$9,666.00
570-1-1	PERFORMANCE TURF	93.98 SY	\$2.10	\$197.36
<b>Drainage Component Total</b>				\$26,003.24

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00 AS	\$1,288.00	\$3,864.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>				\$8,365.00

**BRIDGES COMPONENT****Bridge X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	1,050.00 LF	\$483.00	\$507,150.00
<b>Bridge Total</b>				\$507,150.00
<b>Bridges Component Total</b>				\$507,150.00

**RETAINING WALLS COMPONENT****Retaining Wall 1**

Description	Value
Length	1,050.00
Begin height	27.00
End Height	27.00
Multiplier	1



**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	28,350.00	SF	\$29.35	\$832,072.50

<b>Retaining Walls Component Total</b>					<b>\$832,072.50</b>
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<b>Sequence 5 Total</b>					<b>\$4,408,238.08</b>
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**Sequence:** 6 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.180 MI  
952 LF**Description:** Bridges**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	0
Existing Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	330
Widened Friction Course Spread Rate	80

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	2,511.00	SY	\$22.13	\$55,568.43
	<b>Comment:</b> WB Off-ramp SLD 10190452 22,600 sf = 2,511 SY				
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.30	GM	\$25,839.00	\$7,751.70
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.30	GM	\$25,889.00	\$7,766.70
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.60	GM	\$8,406.00	\$5,043.60

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$76,130.43

**BRIDGES COMPONENT****Bridge 1**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	214.00
Width (LF)	23.50
Type	Medium Level, Widen
Cost Factor	1.00
Structure No.	100145
Removal of Existing Structures area	2,405.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$140.00
<b>Final Cost per SF</b>	<b>\$147.65</b>
<b>Basic Bridge Cost</b>	<b>\$704,060.00</b>
Description	



WIDENING INSIDE BRIDGE NO. 100145, I-4 WB TO I-275 SB  
OVER NEBRASKA AVE (THIS BRIDGE IS NOT PHASE  
CONSTRUCTED)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	2,405.00	SF	\$34.00	\$81,770.00
400-2-10	CONC CLASS II, APPROACH SLABS	52.22	CY	\$533.96	\$27,883.39
415-1-9	REINF STEEL- APPROACH SLABS	9,138.50	LB	\$1.16	\$10,600.66
<b>Bridge 1 Total</b>					<b>\$824,314.05</b>

**Bridge 2**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	152.00
Width (LF)	23.50
Type	Medium Level, Widen
Cost Factor	1.28
Structure No.	100655
Removal of Existing Structures area	2,140.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$179.20
<b>Final Cost per SF</b>	<b>\$189.97</b>
<b>Basic Bridge Cost</b>	<b>\$640,102.40</b>
Description	WIDENING INSIDE BRIDGE NO. 100655, I-4 WB TO I-275 SB OVER I-275 (THIS BRIDGE IS NOT PHASE CONSTRUCTED)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	2,140.00	SF	\$34.00	\$72,760.00
400-2-10	CONC CLASS II, APPROACH SLABS	52.22	CY	\$533.96	\$27,883.39
415-1-9	REINF STEEL- APPROACH SLABS	9,138.50	LB	\$1.16	\$10,600.66
<b>Bridge 2 Total</b>					<b>\$751,346.45</b>

**Bridge 3**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	165.00
Width (LF)	43.00
Type	Medium Level, Widen
Cost Factor	1.20
Structure No.	100141
Removal of Existing Structures area	1,313.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$168.00
<b>Final Cost per SF</b>	<b>\$177.93</b>
<b>Basic Bridge Cost</b>	<b>\$1,191,960.00</b>



Description WIDENING INSIDE AND OUTSIDE BRIDGE NO. 100141,  
I-275 SB OVER 7TH AVE. (PHASE CONSTRUCTION)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,313.00	SF	\$34.00	\$44,642.00
400-2-10	CONC CLASS II, APPROACH SLABS	95.56	CY	\$533.96	\$51,025.22
415-1-9	REINF STEEL- APPROACH SLABS	16,723.00	LB	\$1.16	\$19,398.68
<b>Bridge 3 Total</b>					<b>\$1,307,025.90</b>

**Bridge 4**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	325.00
Width (LF)	43.00
Type	Medium Level, Widen
Cost Factor	1.28
Structure No.	100139
Removal of Existing Structures area	3,186.00
Default Cost per SF	\$140.00
Factored Cost per SF	\$179.20
<b>Final Cost per SF</b>	<b>\$184.24</b>
<b>Basic Bridge Cost</b>	<b>\$2,504,320.00</b>
Description	WIDENING INSIDE AND OUTSIDE BRIDGE NO. 100139, I-275 SB OVER HENDERSON AVE. AND CENTRAL AVE. (PHASE CONSTRUCTION)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	3,186.00	SF	\$34.00	\$108,324.00
400-2-10	CONC CLASS II, APPROACH SLABS	95.56	CY	\$533.96	\$51,025.22
415-1-9	REINF STEEL- APPROACH SLABS	16,723.00	LB	\$1.16	\$19,398.68
<b>Bridge 4 Total</b>					<b>\$2,683,067.90</b>

**Bridge 5**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	144.00
Width (LF)	76.60
Type	Medium Level
Cost Factor	1.20
Structure No.	100649
Removal of Existing Structures area	4,320.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$156.00
<b>Final Cost per SF</b>	<b>\$173.68</b>
<b>Basic Bridge Cost</b>	<b>\$1,720,742.40</b>



Description BRIDGE NO. 100649, I-275 SB OFF RAMP OVER PALM AVE.  
(PHASE CONSTRUCTION)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	4,320.00	SF	\$34.00	\$146,880.00
400-2-10	CONC CLASS II, APPROACH SLABS	170.22	CY	\$533.96	\$90,890.67
415-1-9	REINF STEEL- APPROACH SLABS	29,788.50	LB	\$1.16	\$34,554.66

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	144.00	LF	\$483.00	\$69,552.00

**Bridge 5 Total** \$2,062,619.73

**Bridge 6**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	161.00
Width (LF)	59.25
Type	Medium Level
Cost Factor	1.00
Structure No.	100074
Removal of Existing Structures area	6,183.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$130.00
<b>Final Cost per SF</b>	<b>\$148.32</b>
<b>Basic Bridge Cost</b>	<b>\$1,240,102.50</b>

Description BRIDGE NO. 100074, I-275 SB OFF RAMP OVER 7TH AVE.  
(THIS BRIDGE IS NOT PHASE CONSTRUCTED)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	6,183.00	SF	\$34.00	\$210,222.00
400-2-10	CONC CLASS II, APPROACH SLABS	131.67	CY	\$533.96	\$70,306.51
415-1-9	REINF STEEL- APPROACH SLABS	23,042.25	LB	\$1.16	\$26,729.01

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	161.00	LF	\$483.00	\$77,763.00

**Bridge 6 Total** \$1,625,123.02

**Bridge 7**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES



Length (LF)	254.00
Width (LF)	59.00
Type	Medium Level
Cost Factor	1.00
Structure No.	100082
Removal of Existing Structures area	10,487.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$130.00
<b>Final Cost per SF</b>	<b>\$144.63</b>
<b>Basic Bridge Cost</b>	<b>\$1,948,180.00</b>
Description	BRIDGE NO. 100082, I-275 SB OFF RAMP OVER HENDERSON AVE. AND CENTRAL AVE. (THIS BRIDGE IS NOT PHASE CONSTRUCTED)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	10,487.00	SF	\$34.00	\$356,558.00
400-2-10	CONC CLASS II, APPROACH SLABS	131.11	CY	\$533.96	\$70,007.50
415-1-9	REINF STEEL- APPROACH SLABS	22,944.25	LB	\$1.16	\$26,615.33

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	254.00	LF	\$483.00	\$122,682.00

**Bridge 7 Total** \$2,524,042.83

**Bridge 8**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	144.00
Width (LF)	64.25
Type	Medium Level
Cost Factor	1.20
Structure No.	100143
Removal of Existing Structures area	11,520.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$156.00
<b>Final Cost per SF</b>	<b>\$167.37</b>
<b>Basic Bridge Cost</b>	<b>\$1,443,312.00</b>
Description	BRIDGE NO. 100143, I-275 SB OVER PALM AVE. (PHASE CONSTRUCTION)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	11,520.00	SF	\$34.00	\$391,680.00
400-2-10	CONC CLASS II, APPROACH SLABS	142.78	CY	\$533.96	\$76,238.81
415-1-9	REINF STEEL- APPROACH SLABS	24,986.50	LB	\$1.16	\$28,984.34

**Bridge 8 Total** \$1,940,215.15



Bridges Component Total					\$13,717,755.03
MISCELLANEOUS COMPONENT					
X-Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	11,180.00	SF	\$34.00	\$380,120.00
	Comment: Bridge demolition 100648 & 100653				
	Miscellaneous Component Total				\$380,120.00
Sequence 6 Total					\$14,174,005.46



**Sequence:** 7 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Lighting**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

28

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	5,600.00	LF	\$8.43	\$47,208.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	28.00	EA	\$709.00	\$19,852.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	16,800.00	LF	\$2.20	\$36,960.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	28.00	EA	\$6,413.00	\$179,564.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	28.00	EA	\$556.00	\$15,568.00
<b>Subcomponent Total</b>					\$299,152.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	28.00	EA	\$800.00	\$22,400.00

**Lighting Component Total**

\$321,552.00

**Sequence 7 Total**

\$321,552.00



**Sequence:** 8 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Drainage Retention Basin**DRAINAGE COMPONENT****Retention Basin 1**

<b>Description</b>	<b>Value</b>
Size	10 AC
Multiplier	1
Depth	6.00
Description	

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	10.00	AC	\$15,000.00	\$150,000.00
120-1	REGULAR EXCAVATION	96,800.00	CY	\$9.00	\$871,200.00
400-2-2	CONC CLASS II, ENDWALLS	36.00	CY	\$1,347.35	\$48,504.60
425-1-541	INLETS, DT BOT, TYPE D, <10'	2.00	EA	\$3,985.89	\$7,971.78
425-2-71	MANHOLES, J-7, <10'	2.00	EA	\$6,664.77	\$13,329.54
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	104.00	LF	\$157.60	\$16,390.40
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00	LF	\$378.86	\$151,544.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	2,780.00	LF	\$15.84	\$44,035.20
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	3.00	EA	\$2,097.00	\$6,291.00
570-1-1	PERFORMANCE TURF	48,400.00	SY	\$2.10	\$101,640.00
<b>Drainage Component Total</b>					<b>\$1,410,906.52</b>

<b>Sequence 8 Total</b>	<b>\$1,410,906.52</b>
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**Sequence:** 9 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** ITS**Special** Estimates provided by HWL, 1/17/2020**Conditions:****ROADWAY COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
646-2-135	ALUMINUM POLE- INDEX 17900, F&I, 35'	10.00	EA	\$4,266.00	\$42,660.00

**EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
688-1-10	ROAD WEATHER INFORMATION SYSTEM (RWIS)	1.00	EA	\$70,000.00	\$70,000.00

**Roadway Component Total**

\$112,660.00

**SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	ITS Poles

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-6-1	ELECTRICAL POWER SERVICE-TRANSF, F&I	6.00	EA	\$1,500.00	\$9,000.00
641-2-12	PREST CNC POLE,F&I,TYP P-II SRV POLE	6.00	EA	\$1,468.00	\$8,808.00
641-2-13	PREST CNC POLE,F&I,TYP P-III	2.00	EA	\$4,174.00	\$8,348.00
649-2-150	STEEL CCTV POLE, F&I W/ LOW, 50'	3.00	EA	\$21,108.00	\$63,324.00

**Signalizations Component Total**

\$89,480.00

**INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT****Description of Work**

ITS Cost Estimate (HWL) - 1/20/2020

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	6,766.00	LF	\$8.43	\$57,037.38
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	15,787.00	LF	\$20.45	\$322,844.15
630-2-14	CONDUIT, F& I, ABOVEGROUND	614.00	LF	\$23.18	\$14,232.52
633-1-121	FIBER OPTIC CABLE, F&I, UG,2-12	9,600.00	LF	\$2.87	\$27,552.00
633-1-124	FIBER OPTIC CABLE, F&I, UG,97-144	25,380.00	LF	\$3.56	\$90,352.80
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	1,488.00	EA	\$42.60	\$63,388.80
633-2-32		24.00	EA	\$84.48	\$2,027.52



	FIBER OPTIC CONNECTION, INSTALL, TERM			
633-3-11	FIBER OPTIC CONN HDWR, SPlice ENCLOSURE	9.00 EA	\$890.00	\$8,010.00
633-3-14	FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O	3.00 EA	\$97.87	\$293.61
633-3-16	FIBER OPTIC CONN HDWR, PATCH PANEL- FIE	3.00 EA	\$1,717.50	\$5,152.50
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	200.00 LF	\$5.07	\$1,014.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$709.00	\$11,344.00
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	7.00 EA	\$1,480.50	\$10,363.50
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	6.00 EA	\$2,689.00	\$16,134.00
639-1-121	ELECTRICAL POWER SRV,F&I, UG,FUR BY POWE	6.00 AS	\$2,900.00	\$17,400.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	2,700.00 LF	\$6.00	\$16,200.00
639-3-11	ELEC SERV DISCON, F&I, POLE MNT	12.00 EA	\$950.00	\$11,400.00
660-3-11	VEHICLE DETECTION SYSTEM- MICRO,F&I, CAB	25.00 EA	\$2,894.00	\$72,350.00
660-3-12	VEHICLE DETECTION SYSTEM- MICRO,F&I, ABO	25.00 EA	\$7,287.00	\$182,175.00
676-2-122	ITS CABINET- F&I, POLE, 336S	12.00 EA	\$7,824.00	\$93,888.00
676-2-600	ITS CABINET- REMOVE	1.00 EA	\$594.00	\$594.00
676-3-10	SMALL EQUIPMENT ENCLOSURE, F&I,>10X13X11	9.00 EA	\$1,181.00	\$10,629.00
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCL-NP.	2.00 EA	\$5,957.00	\$11,914.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	3.00 EA	\$4,866.00	\$14,598.00
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	3.00 EA	\$1,032.45	\$3,097.35
685-1-11	UPS POWER SUPPLY, F&I, LINE INTERACTIVE	3.00 EA	\$5,502.00	\$16,506.00
<b>Intelligent Traffic System (ITS) Component Total</b>				<b>\$1,080,498.13</b>
<b>Sequence 9 Total</b>				<b>\$1,282,638.13</b>



**Sequence:** 10 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Signing**Special** Estimates provided by HWL, 1/13/2020**Conditions:****SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-3-211	SIGN PANEL, F&I OM, 601 SF AND GREATER	1.00 EA	\$22,600.00	\$22,600.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-13	SINGLE POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$1,708.00	\$1,708.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
700-3-201	SIGN PANEL, F&I OM, UP TO 12 SF	3.00 EA	\$576.00	\$1,728.00
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	3.00 EA	\$1,219.00	\$3,657.00
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	3.00 EA	\$4,333.00	\$12,999.00
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	1.00 EA	\$6,685.00	\$6,685.00
700-4-132	OH STATIC SIGN STR, F&I, M 21-30 FT	1.00 EA	\$40,800.00	\$40,800.00
700-4-135	OH STATIC SIGN STR, F&I, M SP 51-100 FT	3.00 EA	\$136,000.00	\$408,000.00
700-4-635	OH STATIC SIGN STR, REMOVE MONOTUBE	3.00 EA	\$10,500.00	\$31,500.00
<b>Signing Component Total</b>				<b>\$530,313.00</b>

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<b>Sequence 10 Total</b>	<b>\$530,313.00</b>
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**Sequence:** 11 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Aesthetics

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**MISCELLANEOUS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
AESTH	AESTHETICS <b>Comment:</b> 10% of Sequences 1-10	1.00	LS	\$3,797,282.79	\$3,797,282.79
<b>Miscellaneous Component Total</b>					\$3,797,282.79
<b>Sequence 11 Total</b>					\$3,797,282.79

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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445056-2-52-01**Letting Date:** 07/2025**Description:** I-275/SR 93 SB/I-4/SR 400 WB from N of Morgan St to W of N 12th St**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 1.493 MI**Project Manager:** Craig Fox**Version 3 Project Grand Total****\$60,100,768.53****Description:** 2020 WPUC (Creator: Brad Isler/HDR; Checker: Dave Panigrahi/Lochner)

<b>Project Sequences Subtotal</b>	<b>\$41,770,110.67</b>
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102-1	Maintenance of Traffic	8.00 %	\$3,341,608.85
101-1	Mobilization	8.00 %	\$3,608,937.56

<b>Project Sequences Total</b>	<b>\$48,720,657.08</b>
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Project Unknowns	15.00 %	\$7,308,098.56
Design/Build	7.00 %	\$3,922,012.89

**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

<b>Project Non-Bid Subtotal</b>	<b>\$150,000.00</b>
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**Version 3 Project Grand Total****\$60,100,768.53**



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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445057-1-52-01**Letting Date:** 07/2025**Description:** I-275 (SR 93) SB OFF RAMP TO I-4 FM N OF FLORIBRASKA TO W OF 21ST**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 **Lump Sum Project:** N**Design/Build:** Y**Project Length:** 1.473 MI**Project Manager:** PRD-MLG**Version 3 Project Grand Total****\$53,590,630.24****Description:** 2020 WPUC: Initial consultant LRE update by: Cherie Royals (WSP) / QC: David Panigrahi (Lochner)**Sequence:** 1 WUR - Widen/Resurface, Undivided, Rural**Net Length:** 0.212 MI

1,119 LF

**Description:** I-275 SB Ramp NE to I-4 EB, from Nebraska Ave. To N 12TH ST., widen from 1 to 2 Lanes.

#### EARTHWORK COMPONENT

**User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	20.00 / 15.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.212
Top of Structural Course For Begin Section	129.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	0 to 1 / 0 to 1
Existing Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.90 AC	\$15,000.00	\$13,500.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	20,792.73 CY	\$22.00	\$457,440.06

**Earthwork Component Total****\$470,940.06**

#### ROADWAY COMPONENT

**User Input Data**

Description	Value
Number of Lanes	2
Existing Roadway Pavement Width L/R	15.00 / 0.00
Structural Spread Rate	0



Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	4.57 / 6.67
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,883.59	SY	\$5.00	\$19,417.95
285-702	OPTIONAL BASE,BASE GROUP 02	1,479.34	SY	\$22.50	\$33,285.15
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	1,864.72	SY	\$3.99	\$7,440.23
350-3-17	PLAIN CEMENT CONC PAVT, 14"	1,397.30	SY	\$97.00	\$135,538.10
352-70	GRINDING CONCRETE PAVT	1,864.72	SY	\$5.91	\$11,020.50

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	1,627.00	SY	\$5.00	\$8,135.00
	<b>Comment:</b> Stub-out for future EL Ramp				
285-702	OPTIONAL BASE,BASE GROUP 02	1,627.00	SY	\$22.50	\$36,607.50
	<b>Comment:</b> Stub-out for future EL Ramp				
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	1,627.00	SY	\$92.00	\$149,684.00
	<b>Comment:</b> Stub-out for future EL Ramp				
350-5	CLEANING & SEALING JOINTS - CONC PVMT	900.00	LF	\$3.30	\$2,970.00
350-6	CLEANING & SEALING CRACKS - CONC PVMT	360.00	LF	\$6.00	\$2,160.00
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,190.00	LF	\$31.85	\$37,901.50
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	196.00	LF	\$30.00	\$5,880.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.23	GM	\$25,839.00	\$5,942.97
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.23	GM	\$8,430.00	\$1,938.90
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.23	GM	\$25,889.00	\$5,954.47
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.23	GM	\$8,406.00	\$1,933.38

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	29.00	EA	\$5.82	\$168.78

**Roadway Component Total**

\$465,978.43



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**SHOULDER COMPONENT**
**User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	10.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	10.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,568.34	SY	\$18.00	\$46,230.12
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	341.87	TN	\$98.00	\$33,503.26

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,573.31	LF	\$1.37	\$3,525.43
104-11	FLOATING TURBIDITY BARRIER	21.19	LF	\$9.79	\$207.45
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	21.19	LF	\$4.06	\$86.03
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	0.51	AC	\$40.27	\$20.54
107-2	MOWING	0.51	AC	\$58.12	\$29.64

**Shoulder Component Total**

\$86,632.76

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**DRAINAGE COMPONENT**
**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	3.81	CY	\$1,347.35	\$5,133.40
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	32.00	LF	\$92.51	\$2,960.32
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00	LF	\$140.30	\$2,244.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	3.00	EA	\$1,611.00	\$4,833.00
570-1-1	PERFORMANCE TURF	85.61	SY	\$2.10	\$179.78

**Drainage Component Total**

\$15,351.30



**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	5.00 AS	\$1,288.00	\$6,440.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	5.00 AS	\$26.39	\$131.95
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$3,590.00	\$3,590.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$11,374.95</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

9

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	5,400.00 LF	\$2.20	\$11,880.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	9.00 EA	\$6,413.00	\$57,717.00
<b>Subcomponent Total</b>				<b>\$69,597.00</b>

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-71	LIGHT POLE COMPLETE, REMOVE POLE	5.00 EA	\$550.00	\$2,750.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	9.00 EA	\$430.00	\$3,870.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	1,800.00 LF	\$14.00	\$25,200.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	9.00 EA	\$492.00	\$4,428.00
<b>Lighting Component Total</b>				<b>\$105,845.00</b>

**RETAINING WALLS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	855.00 LF	\$483.00	\$412,965.00



521-8-7	CONCRETE BARRIER, WITH JUNCTION SLAB, 36" SINGLE SLOPE	894.00 LF	\$265.00	\$236,910.00
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**Retaining Wall 1**

Description	Value
Length	841.00
Begin height	2.00
End Height	20.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,251.00	SF	\$29.35	\$271,516.85

**Retaining Wall 2**

Description	Value
Length	855.00
Begin height	29.00
End Height	5.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	14,535.00	SF	\$29.35	\$426,602.25

<b>Retaining Walls Component Total</b>					\$1,347,994.10
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<b>Sequence 1 Total</b>					\$2,504,116.60
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**Sequence:** 2NUR - New Construction, Undivided, Rural**Net Length:** 0.239 MI  
1,260 LF**Description:** I-275 SB Ramp NE to I-4 EB, from Floribaska Ave. to Columbus Dr., 2 Lanes.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.239
Top of Structural Course For Begin Section	110.00
Top of Structural Course For End Section	129.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.45	AC	\$15,000.00	\$21,750.00
120-6	EMBANKMENT	37,994.07	CY	\$15.00	\$569,911.05

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-4-10	REMOVAL OF EXIST CONC	725.00	SY	\$22.13	\$16,044.25
<b>Comment:</b> 15' wide x 435 LF = 6525 SF / 9 = 725 SY					

<b>Earthwork Component Total</b>	<b>\$607,705.30</b>
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**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 14.00
Structural Spread Rate	0
Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	6,159.06	SY	\$5.00	\$30,795.30
285-702	OPTIONAL BASE,BASE GROUP 02	3,731.83	SY	\$22.50	\$83,966.18
350-3-17	PLAIN CEMENT CONC PAVT, 14"	3,639.45	SY	\$97.00	\$353,026.65

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,478.00	LF	\$31.85	\$47,074.30
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	172.00	LF	\$30.00	\$5,160.00



521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	1,049.00 LF	\$216.00	\$226,584.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.28 GM	\$25,839.00	\$7,234.92
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.28 GM	\$8,430.00	\$2,360.40
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.28 GM	\$25,889.00	\$7,248.92
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.28 GM	\$8,406.00	\$2,353.68

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	32.00	EA	\$5.82	\$186.24

**Roadway Component Total**

\$765,990.59

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 10.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	8.00 / 10.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i <sub>c</sub> ½No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,612.00	SY	\$18.00	\$47,016.00
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	346.45	TN	\$98.00	\$33,952.10

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	546.00	SY	\$18.00	\$9,828.00
	<b>Comment:</b> Additional for exit ramp terminal				
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	75.00	TN	\$98.00	\$7,350.00
	<b>Comment:</b> Additional for exit ramp terminal				



**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,275.50	LF	\$1.37	\$4,487.44
104-11	FLOATING TURBIDITY BARRIER	59.65	LF	\$9.79	\$583.97
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	59.65	LF	\$4.06	\$242.18
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	2.89	AC	\$40.27	\$116.38
107-2	MOWING	2.89	AC	\$58.12	\$167.97
<b>Shoulder Component Total</b>					<b>\$106,661.04</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	192.00	LF	\$92.51	\$17,761.92
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00	LF	\$140.30	\$6,734.40
570-1-1	PERFORMANCE TURF	167.97	SY	\$2.10	\$352.74

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00	EA	\$6,457.00	\$32,285.00
<b>Comment:</b> 1260/300 + 1 = 5					
<b>Drainage Component Total</b>					<b>\$57,134.06</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	5.00	AS	\$1,288.00	\$6,440.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>					<b>\$10,941.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

10

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00 LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	10.00 EA	\$6,413.00	\$64,130.00
<b>Subcomponent Total</b>				\$77,330.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-4-71	LIGHT POLE COMPLETE, REMOVE POLE	4.00 EA	\$550.00	\$2,200.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	10.00 EA	\$430.00	\$4,300.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	2,000.00 LF	\$14.00	\$28,000.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	10.00 EA	\$492.00	\$4,920.00
<b>Lighting Component Total</b>				\$116,750.00

**RETAINING WALLS COMPONENT****EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	900.00 LF	\$483.00	\$434,700.00
<b>Comment:</b> Inc. End Bent				

**Retaining Wall 2**

Description	Value
Length	944.00
Begin height	10.00
End Height	30.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	18,880.00 SF	\$29.35	\$554,128.00
<b>Retaining Walls Component Total</b>				\$988,828.00

<b>Sequence 2 Total</b>	\$2,654,009.99
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**Sequence:** 3 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Aesthetics**Special** Approx. 7% of Grand Total**Conditions:**

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**MISCELLANEOUS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
AESTH	AESTHETICS	1.00	LS	\$3,600,000.00	\$3,600,000.00
<b>Miscellaneous Component Total</b>					<b>\$3,600,000.00</b>

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<b>Sequence 3 Total</b>	<b>\$3,600,000.00</b>
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**Sequence:** 4 MIS - Miscellaneous Construction**Net Length:** 0.241 MI  
1,272 LF**Description:** BRIDGES 27 (Ramp NE Flyover) & 28 (Ramp NE over Columbus)**ROADWAY COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.24	GM	\$25,839.00	\$6,201.36
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.24	GM	\$8,430.00	\$2,023.20
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.24	GM	\$25,889.00	\$6,213.36
<b>Roadway Component Total</b>					<b>\$14,437.92</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

10

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00	LF	\$2.20	\$13,200.00

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-15	CONDUIT, F& I, BRIDGE MOUNT	2,000.00	LF	\$27.12	\$54,240.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	10.00	EA	\$430.00	\$4,300.00
715-515-130	LI/PL COMP,F&I, SGLARM BR MNT, ALUM, 30'	10.00	EA	\$3,500.00	\$35,000.00

**EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	10.00	EA	\$492.00	\$4,920.00

**Lighting Component Total****\$111,660.00****BRIDGES COMPONENT****Bridge 27****Description**

Estimate Type  
Primary Estimate  
Length (LF)  
Width (LF)  
Type  
Cost Factor  
Structure No.

**Value**

SF Estimate  
YES  
1,069.00  
11.08  
High Level  
5.00  
100654



Removal of Existing Structures area	7,630.00
Default Cost per SF	\$160.00
Factored Cost per SF	\$800.00
<b>Final Cost per SF</b>	<b>\$801.53</b>
<b>Basic Bridge Cost</b>	<b>\$9,475,616.00</b>
Description	I-275 SB TO I-4 EB RAMP NE FLYOVER OVER I-275 WIDENING

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	7,630.00	SF	\$34.00	\$259,420.00
400-2-10	CONC CLASS II, APPROACH SLABS	24.62	CY	\$533.96	\$13,146.10
415-1-9	REINF STEEL- APPROACH SLABS	4,308.50	LB	\$1.16	\$4,997.86
<b>Bridge 27 Total</b>					<b>\$9,753,179.96</b>

**Bridge 28**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	115.00
Width (LF)	44.67
Type	Medium Level
Cost Factor	1.23
Structure No.	100244
Removal of Existing Structures area	6,660.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$159.90
<b>Final Cost per SF</b>	<b>\$182.27</b>
<b>Basic Bridge Cost</b>	<b>\$821,414.30</b>
Description	I-275 SB RAMP NE TO I-4 EB BRIDGE OVER COLUMBUS DR. REPLACEMENT; PHASED CONSTRUCTION (+20%)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	6,660.00	SF	\$34.00	\$226,440.00
400-2-10	CONC CLASS II, APPROACH SLABS	99.27	CY	\$533.96	\$53,006.21
415-1-9	REINF STEEL- APPROACH SLABS	17,372.25	LB	\$1.16	\$20,151.81

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL	182.00	LF	\$229.30	\$41,732.60

**Bridge 28 Total** \$1,162,744.92

**Bridges Component Total** \$10,915,924.88



**Sequence 4 Total**\$11,042,022.80

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**Sequence:** 5NUR - New Construction, Undivided, Rural**Net Length:** 0.119 MI  
630 LF**Description:** I-275 SB Ramp NE to I-4 EB, from Columbus Dr. to Flyover, 2 Lanes.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.119
Top of Structural Course For Begin Section	69.00
Top of Structural Course For End Section	80.00
Horizontal Elevation For Begin Section	57.00
Horizontal Elevation For End Section	57.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	7.90 % / 7.90 %
Roadway Cross Slope L/R	7.90 % / 7.90 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.72	AC	\$15,000.00	\$10,800.00
120-6	EMBANKMENT	16,272.09	CY	\$15.00	\$244,081.35

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	1,295.00	SY	\$22.13	\$28,658.35
<b>Comment:</b> 18.5' X 630' = 11655 SF/9 = 1295 SY					

<b>Earthwork Component Total</b>	<b>\$283,539.70</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 14.00
Structural Spread Rate	0
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	3,079.53	SY	\$5.00	\$15,397.65
285-702	OPTIONAL BASE,BASE GROUP 02	1,865.92	SY	\$22.50	\$41,983.20
350-3-17	PLAIN CEMENT CONC PAVT, 14"	1,819.72	SY	\$97.00	\$176,512.84

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	630.00	LF	\$31.85	\$20,065.50
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	72.00	LF	\$30.00	\$2,160.00



713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.12 GM	\$25,839.00	\$3,100.68
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.12 GM	\$8,430.00	\$1,011.60
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.12 GM	\$25,889.00	\$3,106.68
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.12 GM	\$8,406.00	\$1,008.72

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	16.00	EA	\$5.82	\$93.12

**Roadway Component Total**

\$264,439.99

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	12.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	12.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,306.00	SY	\$18.00	\$23,508.00
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	173.22	TN	\$98.00	\$16,975.56

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,637.75	LF	\$1.37	\$2,243.72
104-11	FLOATING TURBIDITY BARRIER	29.82	LF	\$9.79	\$291.94
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	29.82	LF	\$4.06	\$121.07
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.45	AC	\$40.27	\$58.39



107-2	MOWING	1.45 AC	\$58.12	\$84.27
<b>Shoulder Component Total</b>				\$46,199.95

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.15 CY	\$1,347.35	\$2,896.80
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	96.00 LF	\$92.51	\$8,880.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	5.00 EA	\$1,611.00	\$8,055.00
570-1-1	PERFORMANCE TURF	83.99 SY	\$2.10	\$176.38

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10' <b>Comment:</b> 630'/300' + 1 = 3	3.00 EA	\$6,457.00	\$19,371.00
<b>Drainage Component Total</b>				\$42,747.34

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00 AS	\$1,288.00	\$3,864.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>				\$8,365.00

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	1,200.00 LF	\$2.20	\$2,640.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	2.00 EA	\$6,413.00	\$12,826.00
<b>Subcomponent Total</b>				\$15,466.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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715-4-71	LIGHT POLE COMPLETE, REMOVE POLE	2.00 EA	\$550.00	\$1,100.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	2.00 EA	\$430.00	\$860.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	840.00 LF	\$14.00	\$11,760.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	2.00 EA	\$492.00	\$984.00

**Lighting Component Total**

\$30,170.00

**RETAINING WALLS COMPONENT****EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	675.00 LF	\$483.00	\$326,025.00
521-8-7	<b>Comment:</b> Inc. End Bent CONCRETE BARRIER, WITH JUNCTION SLAB, 36" SINGLE SLOPE	675.00 LF	\$265.00	\$178,875.00

**Retaining Wall 1**

Description	Value
Length	652.00
Begin height	26.00
End Height	37.00
Multiplier	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	41,076.00 SF	\$29.35	\$1,205,580.60

**Retaining Walls Component Total**

\$1,710,480.60

**Sequence 5 Total**

\$2,385,942.58



**Sequence:** 6NUR - New Construction, Undivided, Rural**Net Length:** 0.082 MI  
431 LF**Description:** I-275 SB Ramp NE-B to I-4 EB, from Ramp NE to Ramp WEB, 1 Lane**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.082
Top of Structural Course For Begin Section	44.00
Top of Structural Course For End Section	39.00
Horizontal Elevation For Begin Section	38.00
Horizontal Elevation For End Section	38.00
Front Slope L/R	0 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.50	AC	\$15,000.00	\$7,500.00
120-6	EMBANKMENT	1,128.42	CY	\$15.00	\$16,926.30
<b>Earthwork Component Total</b>					<b>\$24,426.30</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	7.50 / 7.50
Structural Spread Rate	0
Friction Course Spread Rate	165

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	1,292.54	SY	\$5.00	\$6,462.70
285-702	OPTIONAL BASE,BASE GROUP 02	749.68	SY	\$22.50	\$16,867.80
350-3-17	PLAIN CEMENT CONC PAVT, 14"	718.08	SY	\$97.00	\$69,653.76

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	431.00	LF	\$31.85	\$13,727.35
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	52.00	LF	\$30.00	\$1,560.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	339.00	LF	\$216.00	\$73,224.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.08	GM	\$25,839.00	\$2,067.12
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.08	GM	\$8,430.00	\$674.40



713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.08 GM	\$25,889.00	\$2,071.12
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.08 GM	\$8,406.00	\$672.48

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total** \$186,980.73

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	6.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	606.06 SY	\$18.00	\$10,909.08
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	78.99 TN	\$98.00	\$7,741.02

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,120.20 LF	\$1.37	\$1,534.67
104-11	FLOATING TURBIDITY BARRIER	20.40 LF	\$9.79	\$199.72
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	20.40 LF	\$4.06	\$82.82
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	0.99 AC	\$40.27	\$39.87
107-2	MOWING	0.99 AC	\$58.12	\$57.54

**Shoulder Component Total** \$23,481.72

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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400-2-2	CONC CLASS II, ENDWALLS	1.47 CY	\$1,347.35	\$1,980.60
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	72.00 LF	\$92.51	\$6,660.72
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$140.30	\$2,244.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	4.00 EA	\$1,611.00	\$6,444.00
570-1-1	PERFORMANCE TURF	57.45 SY	\$2.10	\$120.65

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10' <b>Comment:</b> 431'/300 + 1 = 2	2.00 EA	\$6,457.00	\$12,914.00
<b>Drainage Component Total</b>				\$30,364.77

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	2.00 AS	\$1,288.00	\$2,576.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>				\$7,077.00

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description	Value
Multiplier (Number of Poles)	10

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00 LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	10.00 EA	\$6,413.00	\$64,130.00
<b>Subcomponent Total</b>				\$77,330.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-4-71	LIGHT POLE COMPLETE, REMOVE POLE	4.00 EA	\$550.00	\$2,200.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	10.00 EA	\$430.00	\$4,300.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-16	CONDUIT, FURNISH & INSTALL,	2,000.00 LF	\$9.50	\$19,000.00



	EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS			
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	10.00 EA	\$302.24	\$3,022.40
	<b>Lighting Component Total</b>			\$105,852.40
<hr/>				
	<b>Sequence 6 Total</b>			\$378,182.92
<hr/>				



**Sequence:** 7 NDR - New Construction, Divided, Rural**Net Length:** 0.111 MI

587 LF

**Description:** Single-lane Ramp WE-B from NB I-275 to 14/15th St. Limits from Palm Ave. to Nebraska Ave.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.099
Top of Structural Course For Begin Section	129.00
Top of Structural Course For End Section	110.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.54	AC	\$15,000.00	\$8,100.00
120-6	EMBANKMENT	11,281.65	CY	\$15.00	\$169,224.75
<b>Earthwork Component Total</b>					<b>\$177,324.75</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	1,761.41	SY	\$5.00	\$8,807.05
285-702	OPTIONAL BASE,BASE GROUP 02	1,021.62	SY	\$22.50	\$22,986.45
350-3-17	PLAIN CEMENT CONC PAVT, 14"	978.56	SY	\$97.00	\$94,920.32

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,083.00	LF	\$31.85	\$34,493.55
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	128.00	LF	\$30.00	\$3,840.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.08	GM	\$25,839.00	\$2,067.12
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.08	GM	\$25,889.00	\$2,071.12



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$169,185.61

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	6.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	825.90	SY	\$18.00	\$14,866.20
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	107.64	TN	\$98.00	\$10,548.72

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,526.55	LF	\$1.37	\$2,091.37
104-11	FLOATING TURBIDITY BARRIER	27.80	LF	\$9.79	\$272.16
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	27.80	LF	\$4.06	\$112.87
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00	EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	2.70	AC	\$40.27	\$108.73
107-2	MOWING	2.70	AC	\$58.12	\$156.92

**Shoulder Component Total**

\$31,187.26

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	20.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	0.00 / 0.00



Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	348.37	SY	\$2.10	\$731.58
<b>Median Component Total</b>					<b>\$731.58</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.00	CY	\$1,347.35	\$2,694.70
425-1-551	INLETS, DT BOT, TYPE E, <10'	1.00	EA	\$5,524.00	\$5,524.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	88.00	LF	\$92.51	\$8,140.88
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	40.00	LF	\$92.51	\$3,700.40
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	32.00	LF	\$140.30	\$4,489.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	5.00	EA	\$1,611.00	\$8,055.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	222.40	SY	\$57.00	\$12,676.80
570-1-1	PERFORMANCE TURF	78.28	SY	\$2.10	\$164.39

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-881	INLETS, BARRIER WALL, RIG, C&G, <=10'	2.00	EA	\$5,118.00	\$10,236.00
<b>Drainage Component Total</b>					<b>\$55,681.77</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00	AS	\$1,288.00	\$3,864.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00	AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>					<b>\$14,526.00</b>



**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

4

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	2,400.00 LF	\$2.20	\$5,280.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-4-43	LIGHT POLE COMPLETE, F&I-SP, 40'	4.00 EA	\$9,472.00	\$37,888.00
<b>Subcomponent Total</b>				\$43,168.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	4.00 EA	\$430.00	\$1,720.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	800.00 LF	\$9.50	\$7,600.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	4.00 EA	\$302.24	\$1,208.96
<b>Lighting Component Total</b>				\$53,696.96

**RETAINING WALLS COMPONENT****EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONCRETE BARRIER, WITH JUNCTION SLAB, 36" SINGLE SLOPE	732.00 LF	\$265.00	\$193,980.00
<b>Comment:</b> 587' + 145' = 732'				

**Retaining Wall 1****Description****Value**

Length	732.00
Begin height	29.00
End Height	29.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	21,228.00 SF	\$29.35	\$623,041.80



<b>Retaining Walls Component Total</b>	<b>\$817,021.80</b>
<hr/>	
<b>Sequence 7 Total</b>	<b>\$1,319,355.73</b>
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**Sequence:** 8NDR - New Construction, Divided, Rural**Net Length:** 0.232 MI

1,225 LF

**Description:** Single-lane Ramp WEB from NB I-275 to 14/15th St. Limits from Nebraska Ave. To N 12th St.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.232
Top of Structural Course For Begin Section	129.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.12	AC	\$15,000.00	\$16,800.00
120-6	EMBANKMENT	22,921.72	CY	\$15.00	\$343,825.80
<b>Earthwork Component Total</b>					<b>\$360,625.80</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,674.88	SY	\$5.00	\$18,374.40
285-702	OPTIONAL BASE,BASE GROUP 02	2,131.43	SY	\$22.50	\$47,957.18
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,041.60	SY	\$97.00	\$198,035.20

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,225.00	LF	\$31.85	\$39,016.25
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	128.00	LF	\$30.00	\$3,840.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.23	GM	\$25,839.00	\$5,942.97
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.23	GM	\$25,889.00	\$5,954.47



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$319,120.47

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	6.00 / 6.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,723.11	SY	\$18.00	\$31,015.98
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	224.58	TN	\$98.00	\$22,008.84

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-72-43	SHLDR CONC BARRIER, CURB AND GUTTER BARR	851.00	LF	\$233.00	\$198,283.00
<b>Comment:</b> Substituted for 521-72-40 & using pricing for intended pay item as it is not on pick list for x-items					

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,184.90	LF	\$1.37	\$4,363.31
104-11	FLOATING TURBIDITY BARRIER	58.00	LF	\$9.79	\$567.82
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	58.00	LF	\$4.06	\$235.48
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	5.62	AC	\$40.27	\$226.32
107-2	MOWING	5.62	AC	\$58.12	\$326.63

**Shoulder Component Total**

\$260,170.96



**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	20.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	0.00 / 0.00
Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i <sub>c</sub> 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	726.81 SY	\$2.10	\$1,526.30
<b>Median Component Total</b>				<b>\$1,526.30</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.18 CY	\$1,347.35	\$5,631.92
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00 EA	\$5,524.00	\$11,048.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	192.00 LF	\$92.51	\$17,761.92
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00 LF	\$92.51	\$7,400.80
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	72.00 LF	\$140.30	\$10,101.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	10.00 EA	\$1,611.00	\$16,110.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	464.00 SY	\$57.00	\$26,448.00
570-1-1	PERFORMANCE TURF	163.33 SY	\$2.10	\$342.99

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	5.00 EA	\$6,457.00	\$32,285.00
<b>Drainage Component Total</b>				<b>\$127,130.23</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	6.00 AS	\$1,288.00	\$7,728.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00



700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				<b>\$24,551.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description****Value**

Multiplier (Number of Poles)

7

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,200.00 LF	\$2.20	\$9,240.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-43	LIGHT POLE COMPLETE, F&I-SP, 40'	7.00 EA	\$9,472.00	\$66,304.00
<b>Subcomponent Total</b>				<b>\$75,544.00</b>

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	7.00 EA	\$430.00	\$3,010.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	1,400.00 LF	\$9.50	\$13,300.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	7.00 EA	\$302.24	\$2,115.68
<b>Lighting Component Total</b>				<b>\$93,969.68</b>

**RETAINING WALLS COMPONENT****EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	1,342.00 LF	\$483.00	\$648,186.00

**Retaining Wall 1****Description****Value**

Length	1,255.00
Begin height	21.00
End Height	12.00
Multiplier	1



**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	20,707.50	SF	\$29.35	\$607,765.12

**Retaining Wall 2**

<b>Description</b>	<b>Value</b>
Length	120.00
Begin height	21.00
End Height	21.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	2,520.00	SF	\$29.35	\$73,962.00

<b>Retaining Walls Component Total</b>					\$1,329,913.13
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<b>Sequence 8 Total</b>					\$2,517,007.57
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**Sequence:** 9NDR - New Construction, Divided, Rural**Net Length:** 0.162 MI  
855 LF**Description:** Two-lane Ramp NEB from NB/SB I-275 to 14/15th St. Limits from N 12th St. to 14th St.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.162
Top of Structural Course For Begin Section	105.00
Top of Structural Course For End Section	105.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.79	AC	\$15,000.00	\$11,850.00
120-6	EMBANKMENT	8,893.21	CY	\$15.00	\$133,398.15
<b>Earthwork Component Total</b>					<b>\$145,248.15</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 14.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,369.14	SY	\$5.00	\$21,845.70
285-702	OPTIONAL BASE,BASE GROUP 02	2,594.89	SY	\$22.50	\$58,385.02
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,469.51	SY	\$97.00	\$239,542.47

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	758.00	LF	\$31.85	\$24,142.30
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	90.00	LF	\$30.00	\$2,700.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.21	GM	\$25,839.00	\$5,426.19
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.21	GM	\$25,889.00	\$5,436.69



713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.21 GM	\$8,406.00	\$1,765.26
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**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	22.00	EA	\$5.82	\$128.04

**Roadway Component Total**

\$359,371.68

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	8.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	8.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,962.31	SY	\$18.00	\$35,321.58
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	261.20	TN	\$98.00	\$25,597.60

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-72-43	SHLDR CONC BARRIER, CURB AND GUTTER BARR	530.00	LF	\$233.00	\$123,490.00

**Comment:** Substituted for 521-72-40 & using pricing for intended pay item as it is not on pick list for x-items

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,222.56	LF	\$1.37	\$3,044.91
104-11	FLOATING TURBIDITY BARRIER	40.47	LF	\$9.79	\$396.20
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	40.47	LF	\$4.06	\$164.31
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00



104-18	INLET PROTECTION SYSTEM	1.00 EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	3.92 AC	\$40.27	\$157.86
107-2	MOWING	3.92 AC	\$58.12	\$227.83
<b>Shoulder Component Total</b>				<b>\$191,430.58</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	20.00
Performance Turf Width	5.34
Total Median Shoulder Width L/R	0.00 / 0.00
Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	110
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	507.20	SY	\$2.10	\$1,065.12
<b>Median Component Total</b>					<b>\$1,065.12</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	2.91	CY	\$1,347.35	\$3,920.79
425-1-551	INLETS, DT BOT, TYPE E, <10'	1.00	EA	\$5,524.00	\$5,524.00
430-174-124	PIPE CULV, OPT MATL, ROUND, 24"SD	136.00	LF	\$92.51	\$12,581.36
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	56.00	LF	\$92.51	\$5,180.56
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00	LF	\$140.30	\$6,734.40
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	7.00	EA	\$1,611.00	\$11,277.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	323.80	SY	\$57.00	\$18,456.60
570-1-1	PERFORMANCE TURF	113.98	SY	\$2.10	\$239.36

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	3.00	EA	\$6,457.00	\$19,371.00
<b>Drainage Component Total</b>					<b>\$83,285.07</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	4.00 AS	\$1,288.00	\$5,152.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
<b>Signing Component Total</b>				<b>\$15,814.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>				<b>Value</b>
Multiplier (Number of Poles)				5
<b>Pay Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$2.20	\$6,600.00
<b>X-Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-43	LIGHT POLE COMPLETE, F&I-SP, 40'	5.00 EA	\$9,472.00	\$47,360.00
<b>Subcomponent Total</b>				<b>\$53,960.00</b>
<b>X-Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	5.00 EA	\$430.00	\$2,150.00
<b>EX-Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	1,000.00 LF	\$9.50	\$9,500.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	5.00 EA	\$302.24	\$1,511.20
<b>Lighting Component Total</b>				<b>\$67,121.20</b>

**RETAINING WALLS COMPONENT**

<b>EX-Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	532.00 LF	\$483.00	\$256,956.00

**Retaining Wall 1**



Description	Value
Length	532.00
Begin height	5.00
End Height	5.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	2,660.00	SF	\$29.35	\$78,071.00
<b>Retaining Walls Component Total</b>					<b>\$335,027.00</b>

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<b>Sequence 9 Total</b>	<b>\$1,198,362.80</b>
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**Sequence:** 10 NDR - New Construction, Divided, Rural**Net** 0.313 MI  
**Length:** 1,653 LF**Description:** I-4 EB, GP, From N 12th St. to N 19th St. 1 lane.**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	40.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.503
Top of Structural Course For Begin Section	110.00
Top of Structural Course For End Section	110.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	0 to 1 / 0 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.52	AC	\$15,000.00	\$22,800.00
120-6	EMBANKMENT	31,729.42	CY	\$15.00	\$475,941.30
<b>Earthwork Component Total</b>					<b>\$498,741.30</b>

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 13.00
Structural Spread Rate	0
Friction Course Spread Rate	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,592.13	SY	\$5.00	\$22,960.65
285-702	OPTIONAL BASE,BASE GROUP 02	2,509.14	SY	\$22.50	\$56,455.65
350-3-17	PLAIN CEMENT CONC PAVT, 14"	2,387.91	SY	\$97.00	\$231,627.27

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	2,653.00	LF	\$31.85	\$84,498.05
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	315.00	LF	\$30.00	\$9,450.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.50	GM	\$25,839.00	\$12,919.50
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	1.00	GM	\$8,406.00	\$8,406.00



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$426,317.12

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 12.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Paved Outside Shoulder Width L/R	0.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,264.84	SY	\$18.00	\$40,767.12
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	303.08	TN	\$98.00	\$29,701.84
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.31	GM	\$1,355.00	\$420.05

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,298.24	LF	\$1.37	\$5,888.59
104-11	FLOATING TURBIDITY BARRIER	78.27	LF	\$9.79	\$766.26
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	78.27	LF	\$4.06	\$317.78
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	2.00	EA	\$113.29	\$226.58
107-1	LITTER REMOVAL	7.59	AC	\$40.27	\$305.65
107-2	MOWING	7.59	AC	\$58.12	\$441.13

**Shoulder Component Total**

\$81,752.00

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	5.64	CY	\$1,347.35	\$7,599.05
425-1-551	INLETS, DT BOT, TYPE E, <10'	2.00	EA	\$5,524.00	\$11,048.00



430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	256.00 LF	\$92.51	\$23,682.56
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	112.00 LF	\$92.51	\$10,361.12
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	96.00 LF	\$140.30	\$13,468.80
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	13.00 EA	\$1,611.00	\$20,943.00
524-1-1	CONCRETE DITCH PAVT, NR, 3"	626.20 SY	\$57.00	\$35,693.40
570-1-1	PERFORMANCE TURF	220.42 SY	\$2.10	\$462.88

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-891	INLETS, BARRIER WALL, <=10'	9.00 EA	\$6,457.00	\$58,113.00
<b>Drainage Component Total</b>				<b>\$181,371.81</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	8.00 AS	\$1,288.00	\$10,304.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	2.00 AS	\$6,161.00	\$12,322.00
<b>Signing Component Total</b>				<b>\$27,127.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

18

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	10,800.00 LF	\$2.20	\$23,760.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	18.00 EA	\$6,413.00	\$115,434.00
<b>Subcomponent Total</b>				<b>\$139,194.00</b>

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	18.00 EA	\$430.00	\$7,740.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	3,600.00 LF	\$9.50	\$34,200.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	18.00 EA	\$302.24	\$5,440.32
<b>Lighting Component Total</b>				<b>\$186,574.32</b>

**RETAINING WALLS COMPONENT****EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONCRETE BARRIER, WITH JUNCTION SLAB, 8'-0" NOISE WALL	956.00	LF	\$483.00	\$461,748.00
521-8-7	CONCRETE BARRIER, WITH JUNCTION SLAB, 36" SINGLE SLOPE	730.00	LF	\$265.00	\$193,450.00

**Retaining Wall 1**

Description	Value
Length	416.00
Begin height	22.00
End Height	22.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	9,152.00	SF	\$29.35	\$268,611.20

**Retaining Wall 2**

Description	Value
Length	270.00
Begin height	22.00
End Height	22.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	5,940.00	SF	\$29.35	\$174,339.00

**Retaining Wall 3**

Description	Value
Length	270.00
Begin height	22.00
End Height	10.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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548-12	RET WALL SYSTEM, PERM, EX BARRIER	4,320.00 SF	\$29.35	\$126,792.00
<b>Retaining Walls Component Total</b>				\$1,224,940.20
<b>Sequence 10 Total</b>				\$2,626,823.75



**Sequence:** 11 WUU - Widen/Resurface, Undivided, Urban**Net** 0.286 MI  
**Length:** 1,511 LF**Description:** EB 13th Ave. 2-Lane frontage road from 14th St. to 19th St.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.286
Top of Structural Course For Begin Section	100.50
Top of Structural Course For End Section	100.50
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 6 to 1
Existing Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.73	AC	\$15,000.00	\$25,950.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	1,696.00	SY	\$22.13	\$37,532.48

<b>Earthwork Component Total</b>					<b>\$63,482.48</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Existing Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	275
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 9.00
Widened Structural Spread Rate	275
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,944.33	SY	\$5.00	\$9,721.65
285-709	OPTIONAL BASE,BASE GROUP 09	1,566.54	SY	\$18.00	\$28,197.72
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	4,029.70	SY	\$3.99	\$16,078.50
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	554.08	TN	\$98.00	\$54,299.84
334-1-14	SUPERPAVE ASPHALTIC CONC,	207.78	TN	\$98.00	\$20,362.44



	TRAFFIC D			
337-7-85	ASPH CONC FC,TRAFFIC D,FC-12.5,PG 76-22	161.19 TN	\$115.00	\$18,536.85
337-7-85	ASPH CONC FC,TRAFFIC D,FC-12.5,PG 76-22	60.45 TN	\$115.00	\$6,951.75

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	39.00 EA	\$5.82	\$226.98
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.72 GM	\$1,064.00	\$1,830.08
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.57 GM	\$442.00	\$251.94
<b>Roadway Component Total</b>				<b>\$156,457.75</b>

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 7.25
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 5.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,511.14 LF	\$24.58	\$37,143.82
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	839.52 SY	\$46.00	\$38,617.92

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,022.27 LF	\$1.37	\$4,140.51
104-11	FLOATING TURBIDITY BARRIER	28.62 LF	\$9.79	\$280.19
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	28.62 LF	\$4.06	\$116.20
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	15.00 EA	\$113.29	\$1,699.35
107-1	LITTER REMOVAL	1.32 AC	\$40.27	\$53.16



107-2	MOWING	1.32 AC	\$58.12	\$76.72
<b>Shoulder Component Total</b>				<b>\$85,044.87</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	11.00	EA	\$5,211.58	\$57,327.38
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00	EA	\$8,211.06	\$24,633.18
425-1-521	INLETS, DT BOT, TYPE C, <10'	2.00	EA	\$3,482.18	\$6,964.36
425-2-41	MANHOLES, P-7, <10'	2.00	EA	\$5,347.00	\$10,694.00
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	560.00	LF	\$92.51	\$51,805.60
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	1,432.00	LF	\$183.79	\$263,187.28
570-1-1	PERFORMANCE TURF	87.00	SY	\$2.10	\$182.70
<b>Drainage Component Total</b>				<b>\$414,794.50</b>	

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	6.00	AS	\$342.00	\$2,052.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00	AS	\$1,288.00	\$1,288.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00	AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	6.00	AS	\$26.39	\$158.34
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00	AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$8,528.34</b>	

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value	
Spacing				MAX	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,511.14	LF	\$8.43	\$12,738.91
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	197.19	LF	\$20.45	\$4,032.54
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00	EA	\$709.00	\$4,963.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	5,124.98	LF	\$2.20	\$11,274.96
715-4-13	LIGHT POLE COMPLETE, F&I-STD. 40'	7.00	EA	\$5,800.00	\$40,600.00



715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	7.00 EA	\$556.00	\$3,892.00
	<b>Subcomponent Total</b>			\$77,501.40
	<b>Lighting Component Total</b>			\$77,501.41
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<b>Sequence 11 Total</b>				\$805,809.35
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**Sequence:** 12 MIS - Miscellaneous Construction**Net** 0.144 MI  
**Length:** 758 LF**Description:** BRIDGES 25 (Ramp WEB/Nebraska), 33 (I-4/15th) & 34 (I-4/14th)**ROADWAY COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.14	GM	\$25,839.00	\$3,617.46
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.18	GM	\$8,430.00	\$1,517.40
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.09	GM	\$25,889.00	\$2,330.01
<b>Roadway Component Total</b>					<b>\$7,464.87</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description				Value	
Multiplier (Number of Poles)				8	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,800.00	LF	\$2.20	\$10,560.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	8.00	EA	\$6,413.00	\$51,304.00
Subcomponent Total					\$61,864.00

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	8.00	EA	\$430.00	\$3,440.00

**EX-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-16	CONDUIT, FURNISH & INSTALL, EMBEDDED CONCRETE BARRIERS AND TRAFFIC RAILINGS	1,600.00	LF	\$9.50	\$15,200.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	8.00	EA	\$302.24	\$2,417.92
<b>Lighting Component Total</b>					<b>\$82,921.92</b>

**BRIDGES COMPONENT****Bridge 25**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	336.00



Width (LF)	29.68
Type	High Level
Cost Factor	1.20
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$160.00
Factored Cost per SF	\$192.00
<b>Final Cost per SF</b>	<b>\$196.87</b>
<b>Basic Bridge Cost</b>	<b>\$1,914,716.16</b>
Description	RAMP WEB, BRIDGE OVER N NEBRASKA AVE.; CURVED STEEL PLATE GIRDER (+15%)

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II, APPROACH SLABS	65.96	CY	\$533.96	\$35,220.00
415-1-9	REINF STEEL- APPROACH SLABS	11,543.00	LB	\$1.16	\$13,389.88
<b>Bridge 25 Total</b>					<b>\$1,963,326.04</b>

**Bridge 33**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	133.00
Width (LF)	20.00
Type	Medium Level
Cost Factor	1.08
Structure No.	
Removal of Existing Structures area	532.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$140.40
<b>Final Cost per SF</b>	<b>\$152.71</b>
<b>Basic Bridge Cost</b>	<b>\$373,464.00</b>
Description	I-4 EB, GP, BRIDGE OVER N 15TH ST.

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	532.00	SF	\$34.00	\$18,088.00
400-2-10	CONC CLASS II, APPROACH SLABS	44.44	CY	\$533.96	\$23,729.18
415-1-9	REINF STEEL- APPROACH SLABS	7,777.00	LB	\$1.16	\$9,021.32
<b>Bridge 33 Total</b>					<b>\$424,302.50</b>

**Bridge 34**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	135.00
Width (LF)	25.33
Type	Medium Level
Cost Factor	1.08



Structure No.	
Removal of Existing Structures area	540.00
Default Cost per SF	\$130.00
Factored Cost per SF	\$140.40
<b>Final Cost per SF</b>	<b>\$152.53</b>
<b>Basic Bridge Cost</b>	<b>\$480,104.82</b>
Description	I-4 EB, GP, BRIDGE OVER N 14TH ST.

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	540.00	SF	\$34.00	\$18,360.00
400-2-10	CONC CLASS II, APPROACH SLABS	56.29	CY	\$533.96	\$30,056.61
415-1-9	REINF STEEL- APPROACH SLABS	9,850.75	LB	\$1.16	\$11,426.87
<b>Bridge 34 Total</b>					\$539,948.30
<b>Bridges Component Total</b>					\$2,927,576.84

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<b>Sequence 12 Total</b>	<b>\$3,017,963.63</b>
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**Sequence:** 13 MIS - Miscellaneous Construction**Net** 0.000 MI  
**Length:** 0 LF**Description:** Drainage Retention Basins. 5 Acres @ 6 FT Depth**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-2-41	MANHOLES, P-7, <10'	3.00 EA	\$5,347.00	\$16,041.00
430-174-130	PIPE CULV, OPT MATL, ROUND, 30"SD	104.00 LF	\$126.60	\$13,166.40

**Retention Basin 1**

Description	Value
Size	5 AC
Multiplier	1
Depth	6.00
Description	5 Acres @ 8.5 ft Depth

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.00 AC	\$15,000.00	\$75,000.00
120-1	REGULAR EXCAVATION	48,400.00 CY	\$9.00	\$435,600.00
400-2-2	CONC CLASS II, ENDWALLS	30.00 CY	\$1,347.35	\$40,420.50
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00 EA	\$3,985.89	\$3,985.89
425-2-71	MANHOLES, J-7, <10'	2.00 EA	\$6,664.77	\$13,329.54
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00 LF	\$157.60	\$8,825.60
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00 LF	\$378.86	\$151,544.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00 LF	\$15.84	\$29,462.40
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	2.00 EA	\$2,097.00	\$4,194.00
570-1-1	PERFORMANCE TURF	24,200.00 SY	\$2.10	\$50,820.00
<b>Drainage Component Total</b>				<b>\$842,389.33</b>

**Sequence 13 Total****\$842,389.33**



**Sequence:** 14 MIS - Miscellaneous Construction**Net** 0.000 MI  
**Length:** 0 LF**Description:** Corridor Wide ITS**Special** Estimates provided by HWL**Conditions:****SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-6-1	ELECTRICAL POWER SERVICE-TRANSF, F&I	7.00	EA	\$1,500.00	\$10,500.00
<b>Signing Component Total</b>					<b>\$10,500.00</b>

**SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
639-1-121	ELECTRICAL POWER SRV,F&I, UG,FUR BY POWE	7.00	AS	\$2,900.00	\$20,300.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	8,560.00	LF	\$6.00	\$51,360.00
639-3-11	ELEC SERV DISCON, F&I, POLE MNT	7.00	EA	\$950.00	\$6,650.00
639-6-1	ELECTRICAL POWER SERVICE-TRANSF, F&I	7.00	EA	\$1,500.00	\$10,500.00
641-2-13	PREST CNC POLE,F&I,TYP P-III	7.00	EA	\$4,174.00	\$29,218.00
646-2-135	ALUMINUM POLE- INDEX 17900, F&I, 35'	17.00	EA	\$4,266.00	\$72,522.00
649-2-150	STEEL CCTV POLE, F&I W/ LOW, 50'	4.00	EA	\$21,108.00	\$84,432.00
682-1-153	ITS CCTV CAMERA, F&I, STATIONARY, IP, HI	7.00	EA	\$9,585.00	\$67,095.00
685-1-11	UPS POWER SUPPLY, F&I, LINE INTERACTIVE	1.00	EA	\$5,502.00	\$5,502.00
<b>Signalizations Component Total</b>					<b>\$347,579.00</b>

**INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT****Description of Work**

ITS Cost Estimate (HWL)- 02/21/2019

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	8,561.00	LF	\$8.43	\$72,169.23
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	17,265.00	LF	\$20.45	\$353,069.25



630-2-14	CONDUIT, F&I, ABOVEGROUND	658.00 LF	\$23.18	\$15,252.44
633-1-121	FIBER OPTIC CABLE, F&I, UG,2-12	2,180.00 LF	\$2.87	\$6,256.60
633-1-124	FIBER OPTIC CABLE, F&I, UG,97-144	28,626.00 LF	\$3.56	\$101,908.56
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	400.00 EA	\$42.60	\$17,040.00
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERM	112.00 EA	\$84.48	\$9,461.76
633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	7.00 EA	\$890.00	\$6,230.00
633-3-14	FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O	7.00 EA	\$97.87	\$685.09
633-3-16	FIBER OPTIC CONN HDWR, PATCH PANEL- FIE	7.00 EA	\$1,717.50	\$12,022.50
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	165.00 LF	\$5.07	\$836.55
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	34.00 EA	\$709.00	\$24,106.00
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	26.00 EA	\$1,480.50	\$38,493.00
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	6.00 EA	\$2,689.00	\$16,134.00
660-3-11	VEHICLE DETECTION SYSTEM-MICRO,F&I, CAB	38.00 EA	\$2,894.00	\$109,972.00
660-3-12	VEHICLE DETECTION SYSTEM-MICRO,F&I, ABO	38.00 EA	\$7,287.00	\$276,906.00
676-2-122	ITS CABINET- F&I, POLE, 336S	4.00 EA	\$7,824.00	\$31,296.00
676-2-143	ITS CABINET- F&I, BASE, 334	3.00 EA	\$9,337.00	\$28,011.00
676-2-600	ITS CABINET- REMOVE	14.00 EA	\$594.00	\$8,316.00
676-3-10	SMALL EQUIPMENT ENCLOSURE, F&I,>10X13X11	4.00 EA	\$1,181.00	\$4,724.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	7.00 EA	\$4,866.00	\$34,062.00
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	7.00 EA	\$1,032.45	\$7,227.15
<b>Intelligent Traffic System (ITS) Component Total</b>				<b>\$1,174,179.13</b>
<b>Sequence 14 Total</b>				<b>\$1,532,258.13</b>



**Sequence:** 15 MIS - Miscellaneous Construction**Net** 0.000 MI  
**Length:** 0 LF**Description:** 2 Signalized Intersections. Standard 4-Lane Intersections with mast arms.**Special** Signal locations: 14th Street / I-4 South Frontage Road, 15th Street / I-4 South Frontage Road  
**Conditions:****SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	2 Lane Mast Arm
Multiplier	1
Description	2 Each - Standard 2-Lane Intersections

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	800.00	LF	\$8.43	\$6,744.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00	LF	\$20.45	\$4,090.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$5,034.00	\$5,034.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	12.00	EA	\$709.00	\$8,508.00
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00	AS	\$2,684.00	\$2,684.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00	LF	\$6.00	\$360.00
649-21-4	STEEL MAST ARM ASSEMBLY, F&I, 40'- 30'	4.00	EA	\$48,000.00	\$192,000.00
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	8.00	AS	\$946.00	\$7,568.00
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00	AS	\$634.00	\$5,072.00
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	8.00	EA	\$468.00	\$3,744.00
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	8.00	AS	\$944.00	\$7,552.00
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00	EA	\$261.00	\$2,088.00
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00	AS	\$33,949.00	\$33,949.00
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00	EA	\$194.00	\$776.00
<b>Signalizations Component Total</b>					<b>\$280,169.00</b>

**Sequence 15 Total** **\$280,169.00**



**Sequence:** 16 MIS - Miscellaneous Construction**Net** 0.000 MI  
**Length:** 0 LF**Description:** Corridor Wide Signing**Special** Estimates provided by HWL**Conditions:****SIGNING COMPONENT****X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-13	SINGLE POST SIGN, F&I GM, 21-30 SF	2.00	AS	\$1,708.00	\$3,416.00
700-2-17	MULTI- POST SIGN, F&I GM, 201-300 SF	1.00	AS	\$15,598.00	\$15,598.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00	AS	\$636.00	\$636.00
700-3-201	SIGN PANEL, F&I OM, UP TO 12 SF	7.00	EA	\$576.00	\$4,032.00
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	8.00	EA	\$1,219.00	\$9,752.00
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	3.00	EA	\$4,333.00	\$12,999.00
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	8.00	EA	\$6,685.00	\$53,480.00
700-4-132	OH STATIC SIGN STR, F&I, M 21-30 FT	2.00	EA	\$40,800.00	\$81,600.00
700-4-134	OH STATIC SIGN STR, F&I, M 41-50 FT	3.00	EA	\$105,000.00	\$315,000.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-4-632	OVERHEAD STATIC SIGN STRUCTURE, REMOVE MONOTUBE, 21-30 FT	2.00	EA	\$4,804.20	\$9,608.40
700-4-634	OVERHEAD STATIC SIGN STRUCTURE, REMOVE MONOTUBE, 41-50 FT	3.00	EA	\$7,900.00	\$23,700.00

**Signing Component Total**

\$529,821.40

**Sequence 16 Total**

\$529,821.40



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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 445057-1-52-01**Letting Date:** 07/2025**Description:** I-275 (SR 93) SB OFF RAMP TO I-4 FM N OF FLORIBRASKA TO W OF 21ST**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 1.473 MI**Project Manager:** PRD-MLG**Version 3 Project Grand Total****\$53,590,630.24****Description:** 2020 WPUC: Initial consultant LRE update by: Cherie Royals (WSP) / QC: David Panigrahi (Lochner)

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<b>Project Sequences Subtotal</b>	<b>\$37,234,235.58</b>
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102-1	Maintenance of Traffic	8.00 %	\$2,978,738.85
101-1	Mobilization	8.00 %	\$3,217,037.95

<b>Project Sequences Total</b>	<b>\$43,430,012.38</b>
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Project Unknowns	15.00 %	\$6,514,501.86
Design/Build	7.00 %	\$3,496,116.00

**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

<b>Project Non-Bid Subtotal</b>	<b>\$150,000.00</b>
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<b>Version 3 Project Grand Total</b>	<b>\$53,590,630.24</b>
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## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

Project: 443770-1-52-01

Letting Date: 05/2021

Description: I-275 (SR 93) FROM N OF I-4 TO N OF MLK

District: 07 County: 10 HILLSBOROUGH

Market Area: 08

Units: English

Contract Class: 9 Lump Sum Project: N

Design/Build: Y

Project Length: 1.572 MI

Project Manager: PRD-MLG

Version 8 Project Grand Total

\$43,011,029.91

Description: WPUC 2020 w/ 1.64% Slab Replacement (No Outside BRT Accommodations) Created by: Jeff Drapp (HNTB) Checked by HWL

Sequence: 1 WDR - Widen/Resurface, Divided, Rural

Net Length: 0.261 MI  
1,377 LF

Description: S of MLK (MP 1.264) to N of MLK (MP 1.557).

**Special** Shift travel lanes outward 6' to provide 15' full depth concrete inside shoulder to accommodate future potential transit on shoulder. 4-12' travel lanes and 12' outside shoulder (including bridges and retaining wall sections). Median widening including shoulder will be full depth concrete at travel lane cross slope requiring reconstruction of median barrier wall. I-275 SB: Widen 21' on the inside (full depth concrete), and 6' outside concrete (+1' overlapped into shoulder). Rehabilitate 3-12' lanes (concrete). I-275 NB: Widen 9' on the inside (full depth concrete), and 6' outside concrete (+1' overlapped into shoulder). Rehabilitate 4-12' lanes (concrete).

#### EARTHWORK COMPONENT

##### User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 50.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.261
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	2.00 % / 2.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

##### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	3.16	AC	\$15,000.00	\$47,400.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	1,702.69	CY	\$22.00	\$37,459.18



**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
120-1	REGULAR EXCAVATION	1,717.00 CY	\$9.00	\$15,453.00
	<b>Comment:</b> Excavation of 1:2 existing slope for MSE Walls			
	<b>Earthwork Component Total</b>			\$100,312.18

**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	9
Existing Roadway Pavement Width L/R	36.00 / 48.00
Structural Spread Rate	0
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	7.00 / 19.00
Widened Inside Pavement Width L/R	21.00 / 9.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	80

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	11,934.21 SY	\$6.50	\$77,572.37
285-702	OPTIONAL BASE,BASE GROUP 02	8,770.11 SY	\$22.50	\$197,327.48
350-3-17	PLAIN CEMENT CONC PAVT, 14"	8,568.15 SY	\$97.00	\$831,110.55
352-70	GRINDING CONCRETE PAVT	12,852.22 SY	\$5.91	\$75,956.62

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
350-5	CLEANING & SEALING JOINTS - CONC PAVT	12,765.00 LF	\$3.30	\$42,124.50
350-6	CLEANING & SEALING CRACKS - CONC PAVT	5,106.00 LF	\$6.00	\$30,636.00
353-70	CONC PAVT SLAB REPLACEMENT	52.70 CY	\$750.00	\$39,525.00
	<b>Comment:</b> 12852 SY * 1.64% = 211 SY x 0.25 YD (9 in slab) = 52.7			
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	5,508.00 LF	\$31.85	\$175,429.80
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	300.00 LF	\$30.00	\$9,000.00
521-72-24	SHLDR CONC BAR WALL, 8' NOISE WALL	1,784.00 LF	\$445.00	\$793,880.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	470.00 LF	\$216.00	\$101,520.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	282.00 EA	\$5.82	\$1,641.24
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.52 GM	\$25,839.00	\$13,436.28
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	1.56 GM	\$8,430.00	\$13,150.80
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.52 GM	\$25,889.00	\$13,462.28
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	1.56 GM	\$8,406.00	\$13,113.36

**Pavement Marking Subcomponent**



Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	7

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	1,593.00
Noise Barrier Wall Begin Height	22.00
Noise Barrier Wall End Height	22.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	35,046.00 SF	\$35.00	\$1,226,610.00

**Roadway Component Total**

\$3,655,496.28

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	11.00 / 11.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	11.00 / 11.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips $\frac{1}{2}$ No. of Sides	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	3,467.04 SY	\$15.00	\$52,005.60
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	370.27 TN	\$98.00	\$36,286.46
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.52 GM	\$1,355.00	\$704.60

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	3,157.44 LF	\$1.37	\$4,325.69
104-11	FLOATING TURBIDITY BARRIER	26.00 LF	\$9.79	\$254.54
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	26.00 LF	\$4.06	\$105.56
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.89 AC	\$40.27	\$76.11



107-2	MOWING	1.89 AC	\$58.12	\$109.85
<b>Shoulder Component Total</b>				<b>\$96,785.41</b>

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	20.00
Performance Turf Width	0.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	O
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	1,377.00 LF	\$150.00	\$206,550.00
<b>Median Component Total</b>				<b>\$206,550.00</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	4.68 CY	\$1,347.35	\$6,305.60
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	208.00 LF	\$85.17	\$17,715.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	11.00 EA	\$1,611.00	\$17,721.00
570-1-1	PERFORMANCE TURF	183.04 SY	\$2.10	\$384.38

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT, <=10'	4.00 EA	\$5,691.00	\$22,764.00
425-1-891	INLETS, BARRIER WALL, <=10'	8.00 EA	\$6,457.00	\$51,656.00
<b>Drainage Component Total</b>				<b>\$119,913.54</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	7.00 AS	\$1,288.00	\$9,016.00



700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	7.00 AS	\$26.39	\$184.73
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$14,572.73</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

Description				Value	
Multiplier (Number of Poles)				10	
Pay Items					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	6,000.00	LF	\$2.20	\$13,200.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	10.00	EA	\$6,413.00	\$64,130.00
Subcomponent Total					\$77,330.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-15	CONDUIT, F& I, BRIDGE MOUNT	500.00	LF	\$27.12	\$13,560.00
630-2-16	CONDUIT, F& I, EMBEDDED-BARR./RAILINGS	2,000.00	LF	\$14.00	\$28,000.00
635-3-12	JUNCTION BOX, FURNISH & INSTALL, MOUNTED	4.00	EA	\$500.00	\$2,000.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBED	10.00	EA	\$492.00	\$4,920.00
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	11.00	EA	\$800.00	\$8,800.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	6.00	EA	\$1,300.00	\$7,800.00
715-21-2	LIGHTING REPAIRS AND RETROFITS, LED RETR	6.00	EA	\$1,190.00	\$7,140.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	10.00	EA	\$430.00	\$4,300.00
<b>Lighting Component Total</b>					<b>\$153,850.00</b>

**BRIDGES COMPONENT****Bridge 100204**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	170.00
Width (LF)	34.66
Type	Medium Level, Widen
Cost Factor	1.10
Structure No.	100204
Removal of Existing Structures area	1,033.60
Default Cost per SF	\$140.00
Factored Cost per SF	\$154.00



<b>Final Cost per SF</b>	<b>\$180.90</b>
<b>Basic Bridge Cost</b>	<b>\$907,398.80</b>
Description	MLK BLVD. (NOTE: EXISTING OUTSIDE SHOULDER 10', PROPOSED 12') PER DRAFT BDM WITH WIDTH ADJUSTMENTS FOR SCOPE CHANGES. SB WIDENING 11.33', SB REMOVAL 3.04'; NB WIDENING 23.33', SB REMOVAL 3.04'

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	1,033.60	SF	\$34.00	\$35,142.40
400-2-10	CONC CLASS II, APPROACH SLABS	77.02	CY	\$533.96	\$41,125.60
415-1-9	REINF STEEL- APPROACH SLABS	13,478.50	LB	\$1.16	\$15,635.06

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL <b>Comment:</b> NB Side & SB Side	340.00	LF	\$299.30	\$101,762.00

**Bridge 100204 Total** \$1,101,063.86

**Bridges Component Total** \$1,101,063.86

**RETAINING WALLS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL <b>Comment:</b> MLK: SBA 500'	500.00	LF	\$483.00	\$241,500.00

**Retaining Wall 1**

Description	Value
Length	500.00
Begin height	7.00
End Height	7.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	3,500.00	SF	\$29.35	\$102,725.00

**Retaining Walls Component Total** \$344,225.00

**Sequence 1 Total** \$5,792,769.00



**Sequence:** 2 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.356 MI  
1,877 LF**Description:** N of MLK (MP 1.557) to S of Osborne Ave (MP 1.940).

**Special** Shift existing travel lanes outward 6' to provide 15' full depth concrete inside shoulder to accommodate future potential transit on shoulder. 4-12' travel lanes, 1-12' auxiliary lane and 12' outside shoulder (including bridges and retaining wall sections). Median widening including shoulder will be full depth concrete at travel lane cross slope requiring reconstruction of median barrier wall. I-275 SB: Widen 21' on the inside (full depth concrete), and 18' outside concrete (+1' overlapped into shoulder). Rehabilitate 3-12' lanes (concrete). I-275 NB: Widen 9' on the inside (full depth concrete), and 18' outside concrete (+1' overlapped into shoulder). Rehabilitate 4-12' lanes (concrete).

**EARTHWORK COMPONENT****User Input Data**

Description	Value
Standard Clearing and Grubbing Limits L/R	50.00 / 65.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.356
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	2.00 % / 2.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	4.96	AC	\$15,000.00	\$74,400.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	2,224.98	CY	\$22.00	\$48,949.56

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
120-1	REGULAR EXCAVATION	20,053.00	CY	\$9.00	\$180,477.00
<b>Comment:</b> 2340 CY Excavation for drainage Swale 0B. 17,713 CY Excavation of 1:2 existing slope for MSE Walls					

<b>Earthwork Component Total</b>	<b>\$303,826.56</b>
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**ROADWAY COMPONENT****User Input Data**

Description	Value
Number of Lanes	10
Existing Roadway Pavement Width L/R	36.00 / 48.00
Structural Spread Rate	0
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	19.00 / 19.00



Widened Inside Pavement Width L/R	21.00 / 9.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	80

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	18,770.40	SY	\$6.50	\$122,007.60
285-702	OPTIONAL BASE,BASE GROUP 02	14,457.38	SY	\$22.50	\$325,291.05
350-3-17	PLAIN CEMENT CONC PAVT, 14"	14,182.08	SY	\$97.00	\$1,375,661.76
352-70	GRINDING CONCRETE PAVT	17,519.04	SY	\$5.91	\$103,537.53

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
350-5	CLEANING & SEALING JOINTS - CONC PAVT	17,365.00	LF	\$3.30	\$57,304.50
350-6	CLEANING & SEALING CRACKS - CONC PAVT	6,946.00	LF	\$6.00	\$41,676.00
353-70	CONC PAVT SLAB REPLACEMENT <b>Comment:</b> 17519 SY * 1.64% = 287 SY x 0.25 YD (9 in slab) = 71.8	71.80	CY	\$750.00	\$53,850.00
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	7,508.00	LF	\$31.85	\$239,129.80
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	400.00	LF	\$30.00	\$12,000.00
521-72-24	SHLDR CONC BAR WALL, 8' NOISE WALL	843.00	LF	\$445.00	\$375,135.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	552.00	LF	\$216.00	\$119,232.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	432.00	EA	\$5.82	\$2,514.24
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.71	GM	\$25,839.00	\$18,345.69
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	2.48	GM	\$8,430.00	\$20,906.40
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.71	GM	\$25,889.00	\$18,381.19
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	2.48	GM	\$8,406.00	\$20,846.88

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	4
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	8

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	3,387.00
Noise Barrier Wall Begin Height	22.00
Noise Barrier Wall End Height	22.00



**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	74,514.00	SF	\$35.00	\$2,607,990.00

**Roadway Component Total**

\$5,513,809.64

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	11.00 / 11.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	11.00 / 11.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-704	OPTIONAL BASE,BASE GROUP 04	4,725.97	SY	\$15.00	\$70,889.55
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	504.72	TN	\$98.00	\$49,462.56
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.71	GM	\$1,355.00	\$962.05

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	4,309.91	LF	\$1.37	\$5,904.58
104-11	FLOATING TURBIDITY BARRIER	35.49	LF	\$9.79	\$347.45
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	35.49	LF	\$4.06	\$144.09
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	2.58	AC	\$40.27	\$103.90
107-2	MOWING	2.58	AC	\$58.12	\$149.95

**Shoulder Component Total**

\$130,881.13

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	20.00
Performance Turf Width	0.00
New Total Median Shoulder Width L/R	0.00 / 0.00
New Paved Median Shoulder Width L/R	0.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0



Total Width (T) / 8" Overlap (O)	O
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	1,877.00 LF	\$150.00	\$281,550.00
<b>Median Component Total</b>				<b>\$281,550.00</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	6.39 CY	\$1,347.35	\$8,609.57
430-174-124	PIPE CULV, OPT MATL, ROUND, 24" SD	288.00 LF	\$85.17	\$24,528.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36" S/CD	32.00 LF	\$140.30	\$4,489.60
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	15.00 EA	\$1,611.00	\$24,165.00
570-1-1	PERFORMANCE TURF	249.85 SY	\$2.10	\$524.69

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT, <=10'	4.00 EA	\$5,691.00	\$22,764.00
425-1-891	INLETS, BARRIER WALL, <=10'	8.00 EA	\$6,457.00	\$51,656.00
<b>Drainage Component Total</b>				<b>\$136,737.82</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	9.00 AS	\$1,288.00	\$11,592.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	9.00 AS	\$26.39	\$237.51
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$17,201.51</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent**

<b>Description</b>	<b>Value</b>
Multiplier (Number of Poles)	13

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	7,800.00 LF	\$2.20	\$17,160.00
715-4-14	LIGHT POLE COMPLETE, F&I-STD, 45'	13.00 EA	\$6,413.00	\$83,369.00
<b>Subcomponent Total</b>				<b>\$100,529.00</b>
<b>X-Items</b>				
<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-15	CONDUIT, F& I, BRIDGE MOUNT	500.00 LF	\$27.12	\$13,560.00
630-2-16	CONDUIT, F& I, EMBEDDED-BARR./RAILINGS	2,600.00 LF	\$14.00	\$36,400.00
635-3-12	JUNCTION BOX, FURNISH & INSTALL, MOUNTED	4.00 EA	\$500.00	\$2,000.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBED	13.00 EA	\$492.00	\$6,396.00
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	6.00 EA	\$800.00	\$4,800.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	6.00 EA	\$1,300.00	\$7,800.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	13.00 EA	\$430.00	\$5,590.00
<b>Lighting Component Total</b>				<b>\$177,075.00</b>

**BRIDGES COMPONENT****Bridge 100206**

<b>Description</b>	<b>Value</b>
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	145.00
Width (LF)	34.16
Type	Medium Level, Widen
Cost Factor	1.10
Structure No.	100206
Removal of Existing Structures area	881.60
Default Cost per SF	\$140.00
Factored Cost per SF	\$154.00
<b>Final Cost per SF</b>	<b>\$182.82</b>
<b>Basic Bridge Cost</b>	<b>\$762,792.80</b>
Description	I-275 OVER CHELSEA AVE. (NOTE: EXISTING OUTSIDE SHOULDER 10', PROPOSED 12') PER DRAFT BDM. SB WIDENING 23.33', SB REMOVAL 3.04'; NB WIDENING 10.83', NB REMOVAL 3.04'

**Bridge Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	881.60 SF	\$34.00	\$29,974.40
400-2-10	CONC CLASS II, APPROACH SLABS	75.91 CY	\$533.96	\$40,532.90
415-1-9	REINF STEEL- APPROACH SLABS	13,284.25 LB	\$1.16	\$15,409.73

**Bridge X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
521-5-22		290.00 LF	\$299.30	\$86,797.00



CONC TRAF RAIL- BRIDGE, 8'  
NOISE WALL

**Comment:** NB 145' + SB 145'

**Bridge 100206 Total** \$935,506.83

**Bridges Component Total** \$935,506.83

#### RETAINING WALLS COMPONENT

##### X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	996.00 LF	\$265.00	\$263,940.00
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	1,363.00 LF	\$483.00	\$658,329.00

##### Retaining Wall 1

Description	Value
Length	1,180.00
Begin height	13.00
End Height	15.00
Multiplier	1

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	16,520.00 SF	\$29.35	\$484,862.00

##### Retaining Wall 2

Description	Value
Length	1,180.00
Begin height	15.00
End Height	13.00
Multiplier	1

##### Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	16,520.00 SF	\$29.35	\$484,862.00

**Retaining Walls Component Total** \$1,891,993.00

**Sequence 2 Total** \$9,388,581.49



**Sequence:** 3WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.686 MI  
3,622 LF**Description:** S of Floribaska (MP 0.525) to S of MLK (MP 1.264) SB Only**Special** I-275 SB: Widen for 1-12' GP lane on the inside (concrete) with full depth inside shoulder (total**Conditions:** average widening 15'). Mill & Resurface 12' outside shoulder with asphalt.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.686
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	2.00 % / 2.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	2 to 1 / 2 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.08	AC	\$15,000.00	\$31,200.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	1,279.80	CY	\$22.00	\$28,155.60

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
120-1	REGULAR EXCAVATION	5,600.00	CY	\$9.00	\$50,400.00
<b>Comment:</b> Excavation of 1:2 existing slope for MSE Walls					

**Earthwork Component Total** \$109,755.60**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	5
Existing Roadway Pavement Width L/R	48.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 0.00
Widened Inside Pavement Width L/R	15.00 / 0.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
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160-4	TYPE B STABILIZATION	9,658.88 SY	\$6.50	\$62,782.72
285-702	OPTIONAL BASE,BASE GROUP 02	6,169.61 SY	\$22.50	\$138,816.22
350-3-17	PLAIN CEMENT CONC PAVT, 14"	6,036.80 SY	\$97.00	\$585,569.60
352-70	GRINDING CONCRETE PAVT	19,317.76 SY	\$5.91	\$114,167.96

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
350-5	CLEANING & SEALING JOINTS - CONC PVMT	19,602.00	LF	\$3.30	\$64,686.60
350-6	CLEANING & SEALING CRACKS - CONC PVMT	7,841.00	LF	\$6.00	\$47,046.00
353-70	CONC PAVT SLAB REPLACEMENT	79.20	CY	\$750.00	\$59,400.00
	<b>Comment:</b> 19318 SY * 1.64% = 317 SY x 0.25 YD (9 in slab) = 79.2				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	3,622.00	LF	\$31.85	\$115,360.70
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	400.00	LF	\$30.00	\$12,000.00
521-72-27	SHLDR CONC BAR WALL, 14' NOISE WALL	1,308.00	LF	\$527.00	\$689,316.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	2,315.00	LF	\$216.00	\$500,040.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	370.00	EA	\$5.82	\$2,153.40
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.69	GM	\$25,839.00	\$17,828.91
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	2.06	GM	\$8,430.00	\$17,365.80
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.69	GM	\$25,889.00	\$17,863.41
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	2.06	GM	\$8,406.00	\$17,316.36

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	3

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-72-24	SHLDR CONC BAR WALL, 8' NOISE WALL	958.00	LF	\$445.00	\$426,310.00



**Roadway Component Total**

\$2,888,023.69

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	12.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	10.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	O
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	4,024.53 SY	\$3.96	\$15,937.14
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	442.70 TN	\$98.00	\$43,384.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.69 GM	\$1,355.00	\$934.95

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	8,330.78 LF	\$1.37	\$11,413.17
104-11	FLOATING TURBIDITY BARRIER	68.60 LF	\$9.79	\$671.59
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	68.60 LF	\$4.06	\$278.52
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	4.99 AC	\$40.27	\$200.95
107-2	MOWING	4.99 AC	\$58.12	\$290.02

**Shoulder Component Total**

\$76,027.94

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	11.00
Performance Turf Width	0.00
New Total Median Shoulder Width L/R	9.00 / 0.00
New Paved Median Shoulder Width L/R	9.00 / 0.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	O
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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285-707	OPTIONAL BASE,BASE GROUP 07	3,754.89 SY	\$18.00	\$67,588.02
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	398.43 TN	\$98.00	\$39,046.14
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	3,622.00 LF	\$150.00	\$543,300.00
<b>Median Component Total</b>				<b>\$649,934.16</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	552.00 LF	\$85.17	\$47,013.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	56.00 LF	\$140.30	\$7,856.80
570-1-1	PERFORMANCE TURF	482.94 SY	\$2.10	\$1,014.17

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT,<=10'	7.00 EA	\$5,691.00	\$39,837.00

**Drainage Component Total****\$95,721.81****SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	2.00 AS	\$342.00	\$684.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	17.00 AS	\$1,288.00	\$21,896.00
700-1-50	SINGLE POST SIGN, RELOCATE	2.00 AS	\$235.00	\$470.00
700-1-60	SINGLE POST SIGN, REMOVE	17.00 AS	\$26.39	\$448.63
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	2.00 AS	\$4,159.00	\$8,318.00
700-2-60	MULTI- POST SIGN, REMOVE	2.00 AS	\$636.00	\$1,272.00

**Signing Component Total****\$33,088.63****LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

25

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	15,000.00 LF	\$2.20	\$33,000.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	25.00 EA	\$6,413.00	\$160,325.00
<b>Subcomponent Total</b>				<b>\$193,325.00</b>

**X-Items**



<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-15	CONDUIT, F& I, BRIDGE MOUNT	1,000.00	LF	\$27.12	\$27,120.00
630-2-16	CONDUIT, F& I, EMBEDDED-BARR./RAILINGS	5,000.00	LF	\$14.00	\$70,000.00
635-3-12	JUNCTION BOX, FURNISH & INSTALL, MOUNTED	8.00	EA	\$500.00	\$4,000.00
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBED	25.00	EA	\$492.00	\$12,300.00
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	10.00	EA	\$800.00	\$8,000.00
715-11-125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	12.00	EA	\$1,300.00	\$15,600.00
715-21-2	LIGHTING REPAIRS AND RETROFITS, LED RETR	23.00	EA	\$1,190.00	\$27,370.00
715-500-3	POLE CABLE DISTRIBUTION SYS, WALL MOUNT	25.00	EA	\$430.00	\$10,750.00
<b>Lighting Component Total</b>					<b>\$368,465.00</b>
<b>Sequence 3 Total</b>					<b>\$4,221,016.83</b>



**Sequence:** 4 WUR - Widen/Resurface, Undivided, Rural**Net Length:** 0.182 MI  
960 LF**Description:** Widening SB I-275 to I-4 exit ramp.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	19.00 / 0.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.182
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	6 to 1 / 0 to 1
Existing Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Front Slope L/R	6 to 1 / 0 to 1
Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.42	AC	\$15,000.00	\$6,300.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	59.79	CY	\$22.00	\$1,315.38
<b>Earthwork Component Total</b>					<b>\$7,615.38</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Existing Roadway Pavement Width L/R	15.00 / 0.00
Structural Spread Rate	0
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	9.00 / 0.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,813.15	SY	\$6.50	\$11,785.48
285-702	OPTIONAL BASE,BASE GROUP 02	995.10	SY	\$22.50	\$22,389.75
350-3-17	PLAIN CEMENT CONC PAVT, 14"	959.90	SY	\$97.00	\$93,110.30
352-70	GRINDING CONCRETE PAVT	1,599.84	SY	\$5.91	\$9,455.05

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
350-5	CLEANING & SEALING JOINTS - CONC PVMT	1,695.00	LF	\$3.30	\$5,593.50



350-6	CLEANING & SEALING CRACKS - CONC PVMT	678.00 LF	\$6.00	\$4,068.00
353-70	CONC PAVT SLAB REPLACEMENT <b>Comment:</b> 1600 SY * 1.64% = 26 SY x 0.25 YD (9 in slab) = 6.6	6.60 CY	\$750.00	\$4,950.00
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	960.00 LF	\$31.85	\$30,576.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	50.00 LF	\$30.00	\$1,500.00
521-1-11	MEDIAN CONC BARRIER, 38" HEIGHT	960.00 LF	\$150.00	\$144,000.00
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	961.00 LF	\$216.00	\$207,576.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	25.00 EA	\$5.82	\$145.50
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.18 GM	\$25,839.00	\$4,651.02
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.18 GM	\$8,430.00	\$1,517.40
713-103-231	PERMANENT TAPE, YELLOW,SKIP/,6" FOR CONC	0.18 GM	\$8,400.00	\$1,512.00
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.18 GM	\$8,406.00	\$1,513.08

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

**Roadway Component Total**

\$544,343.08

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	8.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	8.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	888.44 SY	\$18.00	\$15,991.92
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	93.86 TN	\$98.00	\$9,198.28

**Erosion Control**



**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
104-10-3	SEDIMENT BARRIER	2,207.78 LF	\$1.37	\$3,024.66
104-11	FLOATING TURBIDITY BARRIER	18.18 LF	\$9.79	\$177.98
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	18.18 LF	\$4.06	\$73.81
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
104-18	INLET PROTECTION SYSTEM	1.00 EA	\$113.29	\$113.29
107-1	LITTER REMOVAL	0.44 AC	\$40.27	\$17.72
107-2	MOWING	0.44 AC	\$58.12	\$25.57
<b>Shoulder Component Total</b>				<b>\$31,540.23</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	152.00 LF	\$85.17	\$12,945.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$140.30	\$2,244.80

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT, <=10'	4.00 EA	\$5,691.00	\$22,764.00
<b>Drainage Component Total</b>				<b>\$37,954.64</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	4.00 AS	\$1,288.00	\$5,152.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	4.00 AS	\$26.39	\$105.56
700-2-13	MULTI- POST SIGN, F&I GM, 21-30 SF	1.00 AS	\$3,590.00	\$3,590.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
<b>Signing Component Total</b>				<b>\$10,060.56</b>

**Sequence 4 Total****\$631,513.89**



**Sequence:** 5 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.433 MI  
2,285 LF**Description:** NB from N. of Floribaska (MP 0.805) to S of MLK (MP 1.264)**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 25.00
Incidental Clearing and Grubbing Area	0.00

Alignment Number	1
Distance	0.234
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	2 to 1 / 2 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

Alignment Number	2
Distance	0.199
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	0 to 1 / 0 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	1.31	AC	\$15,000.00	\$19,650.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	682.55	CY	\$22.00	\$15,016.10

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
120-1	REGULAR EXCAVATION	9,680.00	CY	\$9.00	\$87,120.00
<b>Comment:</b> Excavation for drainage pond. Assume 1 pond @ 1 acre each, 6' depth.					

<b>Earthwork Component Total</b>	<b>\$121,786.10</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	5
Existing Roadway Pavement Width L/R	0.00 / 48.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 19.00
Widened Inside Pavement Width L/R	0.00 / 12.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	12,949.38	SY	\$6.50	\$84,170.97
285-702	OPTIONAL BASE,BASE GROUP 02	8,038.77	SY	\$22.50	\$180,872.32
350-3-17	PLAIN CEMENT CONC PAVT, 14"	7,871.19	SY	\$97.00	\$763,505.43
352-70	GRINDING CONCRETE PAVT	12,187.65	SY	\$5.91	\$72,029.01

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
350-5	CLEANING & SEALING JOINTS - CONC PVMT	12,375.00	LF	\$3.30	\$40,837.50
350-6	CLEANING & SEALING CRACKS - CONC PVMT	4,950.00	LF	\$6.00	\$29,700.00
353-70	CONC PAVT SLAB REPLACEMENT	50.00	CY	\$750.00	\$37,500.00
	<b>Comment:</b> 12188 SY * 1.64% = 200 SY x 0.25 YD (9 in slab) = 50.0				
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	4,570.00	LF	\$31.85	\$145,554.50
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	400.00	LF	\$30.00	\$12,000.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	234.00	EA	\$5.82	\$1,361.88
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.43	GM	\$25,839.00	\$11,110.77
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.86	GM	\$8,430.00	\$7,249.80
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.43	GM	\$25,889.00	\$11,132.27
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.86	GM	\$8,406.00	\$7,229.16

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	3

**Peripherals Subcomponent**

<b>Description</b>	<b>Value</b>
Off Road Bike Path(s)	0



Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	2,207.00
Noise Barrier Wall Begin Height	22.00
Noise Barrier Wall End Height	22.00

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
521-72-40	SHLDR CONC BARRIER,38" OR 44" HEIGHT	155.00 LF	\$216.00	\$33,480.00
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	48,554.00 SF	\$35.00	\$1,699,390.00

**Roadway Component Total**

\$3,137,123.62

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 11.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	1

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,876.79 SY	\$18.00	\$51,782.22
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	307.23 TN	\$98.00	\$30,108.54
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.43 GM	\$1,355.00	\$582.65

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	5,255.92 LF	\$1.37	\$7,200.61
104-11	FLOATING TURBIDITY BARRIER	43.28 LF	\$9.79	\$423.71
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	43.28 LF	\$4.06	\$175.72
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	3.15 AC	\$40.27	\$126.85
107-2	MOWING	3.15 AC	\$58.12	\$183.08

**Shoulder Component Total**

\$93,500.38

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	10.00



Performance Turf Width	0.00
New Total Median Shoulder Width L/R	0.00 / 9.00
New Paved Median Shoulder Width L/R	0.00 / 9.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	2,368.97	SY	\$18.00	\$42,641.46
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	251.37	TN	\$98.00	\$24,634.26
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	1.00	GM	\$1,355.00	\$1,355.00
<b>Median Component Total</b>					<b>\$68,630.72</b>

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	352.00	LF	\$85.17	\$29,979.84
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00	LF	\$140.30	\$5,612.00
570-1-1	PERFORMANCE TURF	304.69	SY	\$2.10	\$639.85

**X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT,<=10'	5.00	EA	\$5,691.00	\$28,455.00
<b>Drainage Component Total</b>					<b>\$64,686.69</b>

**SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	11.00	AS	\$1,288.00	\$14,168.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00	AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	11.00	AS	\$26.39	\$290.29
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00	AS	\$636.00	\$636.00
<b>Signing Component Total</b>					<b>\$19,830.29</b>

**BRIDGES COMPONENT****Bridge 100207**



Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	139.00
Width (LF)	21.78
Type	Medium Level, Widen
Cost Factor	1.10
Structure No.	100207
Removal of Existing Structures area	811.76
Default Cost per SF	\$140.00
Factored Cost per SF	\$154.00
<b>Final Cost per SF</b>	<b>\$193.27</b>
<b>Basic Bridge Cost</b>	<b>\$466,222.68</b>

Description LAKE AVE. (NOTE: EXISTING OUTSIDE SHOULDER 10', PROPOSED 12') PER DRAFT BDM WITH WIDTH ADJUSTMENTS FOR SCOPE CHANGES. SB WIDENING 2.38', SB REMOVAL 2.92'; NB WIDENING 19.40', NB REMOVAL 2.92'

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	811.76	SF	\$34.00	\$27,599.84
400-2-10	CONC CLASS II, APPROACH SLABS	48.40	CY	\$533.96	\$25,843.66
415-1-9	REINF STEEL- APPROACH SLABS	8,470.00	LB	\$1.16	\$9,825.20

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL	278.00	LF	\$299.30	\$83,205.40
	<b>Comment:</b> NB & SB				

**Bridge 100207 Total** \$612,696.78

**Bridges Component Total** \$612,696.78

**RETAINING WALLS COMPONENT****X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-7	CONC BARRIER, W/JUNCT SL, 36 SS	2,130.00	LF	\$265.00	\$564,450.00

**Retaining Wall 1**

Description	Value
Length	1,858.00
Begin height	5.00
End Height	20.00
Multiplier	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	23,225.00	SF	\$29.35	\$681,653.75



**Retaining Wall 2**

<b>Description</b>	<b>Value</b>
Length	272.00
Begin height	15.00
End Height	20.00
Multiplier	1

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
548-12	RET WALL SYSTEM, PERM, EX BARRIER	4,760.00	SF	\$29.35	\$139,706.00

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<b>Retaining Walls Component Total</b>	<b>\$1,385,809.75</b>
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<b>Sequence 5 Total</b>	<b>\$5,504,064.33</b>
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**Sequence:** 6 WDR - Widen/Resurface, Divided, Rural**Net Length:** 0.100 MI  
530 LF**Description:** NB from S. of Floribraska (MP 0.703) to N. of Floribraska (MP 0.805)**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	0.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.100
Top of Structural Course For Begin Section	101.20
Top of Structural Course For End Section	101.20
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Existing Front Slope L/R	2 to 1 / 2 to 1
Existing Median Slope L/R	6 to 1 / 6 to 1
Existing Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Existing Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Front Slope L/R	2 to 1 / 2 to 1
Median Slope L/R	6 to 1 / 6 to 1
Median Shoulder Cross Slope L/R	5.00 % / 5.00 %
Outside Shoulder Cross Slope L/R	6.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.30	AC	\$15,000.00	\$4,500.00
120-2-2	BORROW EXCAVATION, TRUCK MEASURE	52.21	CY	\$22.00	\$1,148.62
<b>Earthwork Component Total</b>					<b>\$5,648.62</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	5
Existing Roadway Pavement Width L/R	0.00 / 48.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Widened Outside Pavement Width L/R	0.00 / 13.00
Widened Inside Pavement Width L/R	0.00 / 0.00
Widened Structural Spread Rate	0
Widened Friction Course Spread Rate	80

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	1,943.74	SY	\$6.50	\$12,634.31
285-702	OPTIONAL BASE,BASE GROUP 02	785.15	SY	\$22.50	\$17,665.88
350-3-17	PLAIN CEMENT CONC PAVT, 14"	765.72	SY	\$97.00	\$74,274.84
352-70	GRINDING CONCRETE PAVT	2,827.26	SY	\$5.91	\$16,709.11

**X-Items**



Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
350-5	CLEANING & SEALING JOINTS - CONC PVMT	2,205.00	LF	\$3.30	\$7,276.50
350-6	CLEANING & SEALING CRACKS - CONC PVMT	882.00	LF	\$6.00	\$5,292.00
353-70	CONC PAVT SLAB REPLACEMENT <b>Comment:</b> 2129 SY * 1.64% = 35 SY x 0.25 YD (9 in slab) = 8.7	8.70	CY	\$750.00	\$6,525.00
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	399.00	LF	\$31.85	\$12,708.15
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	50.00	LF	\$30.00	\$1,500.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	41.00	EA	\$5.82	\$238.62
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.07	GM	\$25,839.00	\$1,808.73
713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.21	GM	\$8,430.00	\$1,770.30
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.07	GM	\$25,889.00	\$1,812.23
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.21	GM	\$8,406.00	\$1,765.26

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Concrete
Solid Stripe No. of Paint Applications	0
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	0
Skip Stripe No. of Stripes	3

**Peripherals Subcomponent**

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	0.00 / 0.00
Bike Path Structural Spread Rate	0
Noise Barrier Wall Length	0.00
Noise Barrier Wall Begin Height	0.00
Noise Barrier Wall End Height	0.00

**Roadway Component Total**

\$161,980.93

**SHOULDER COMPONENT****User Input Data**

Description	Value
Existing Total Outside Shoulder Width L/R	0.00 / 0.00
New Total Outside Shoulder Width L/R	0.00 / 11.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Existing Paved Outside Shoulder Width L/R	0.00 / 0.00
New Paved Outside Shoulder Width L/R	0.00 / 11.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	1



**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	667.35 SY	\$18.00	\$12,012.30
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	71.27 TN	\$98.00	\$6,984.46
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	0.10 GM	\$1,355.00	\$135.50

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,219.26 LF	\$1.37	\$1,670.39
104-11	FLOATING TURBIDITY BARRIER	10.04 LF	\$9.79	\$98.29
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	10.04 LF	\$4.06	\$40.76
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	0.73 AC	\$40.27	\$29.40
107-2	MOWING	0.73 AC	\$58.12	\$42.43

**Shoulder Component Total**

\$23,930.53

**MEDIAN COMPONENT****User Input Data**

Description	Value
Total Median Width	10.00
Performance Turf Width	0.00
New Total Median Shoulder Width L/R	0.00 / 9.00
New Paved Median Shoulder Width L/R	0.00 / 9.00
Existing Total Median Shoulder Width L/R	0.00 / 0.00
Existing Paved Median Shoulder Width L/R	0.00 / 0.00
Structural Spread Rate	220
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	0
Rumble Strips 1/2 No. of Sides	2

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	549.55 SY	\$18.00	\$9,891.90
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	58.31 TN	\$98.00	\$5,714.38
<b>Median Component Total</b>				\$15,606.28

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	88.00 LF	\$85.17	\$7,494.96
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	16.00 LF	\$140.30	\$2,244.80
570-1-1	PERFORMANCE TURF	70.68 SY	\$2.10	\$148.43

**X-Items**



Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-791	INLETS, MED BARRIER, TYPE 2, J BOT,<=10'	1.00	EA	\$5,691.00	\$5,691.00
<b>Drainage Component Total</b>					<b>\$15,579.19</b>

**SIGNING COMPONENT**

<b>Pay Items</b>					
Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00	AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00	AS	\$1,288.00	\$3,864.00
700-1-50	SINGLE POST SIGN, RELOCATE	1.00	AS	\$235.00	\$235.00
700-1-60	SINGLE POST SIGN, REMOVE	3.00	AS	\$26.39	\$79.17
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00	AS	\$4,159.00	\$4,159.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00	AS	\$636.00	\$636.00
<b>Signing Component Total</b>					<b>\$9,315.17</b>

**BRIDGES COMPONENT****Bridge 100201**

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	140.00
Width (LF)	14.50
Type	Medium Level, Widen
Cost Factor	1.10
Structure No.	100201
Removal of Existing Structures area	425.60
Default Cost per SF	\$140.00
Factored Cost per SF	\$154.00
<b>Final Cost per SF</b>	<b>\$186.34</b>
<b>Basic Bridge Cost</b>	<b>\$312,620.00</b>
Description	FLORIBRASKA AVE.(NOTE: EXIST OUTSIDE SHOULDER 10', PROPOSED 12') PER DRAFT BDM WITH WIDTH ADJUSTMENTS FOR SCOPE CHANGES. NB WIDENING 14.50', NB REMOVAL 3.04'

**Bridge Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	425.60	SF	\$34.00	\$14,470.40
400-2-10	CONC CLASS II, APPROACH SLABS	32.22	CY	\$533.96	\$17,204.19
415-1-9	REINF STEEL- APPROACH SLABS	5,638.50	LB	\$1.16	\$6,540.66

**Bridge X-Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-5-22	CONC TRAF RAIL- BRIDGE, 8' NOISE WALL	140.00	LF	\$299.30	\$41,902.00



<b>Bridge 100201 Total</b>	<b>\$392,737.25</b>
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<b>Bridges Component Total</b>	<b>\$392,737.25</b>
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### RETAINING WALLS COMPONENT

#### X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
521-8-11	CONC BARRIER, W/JUNCT SLAB, 8'-NWALL	500.00	LF	\$483.00	\$241,500.00

#### Retaining Wall 1

Description	Value
Length	500.00
Begin height	20.00
End Height	20.00
Multiplier	1

#### Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	10,000.00	SF	\$29.35	\$293,500.00

<b>Retaining Walls Component Total</b>	<b>\$535,000.00</b>
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<b>Sequence 6 Total</b>	<b>\$1,159,797.97</b>
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**Sequence:** 7 NUR - New Construction, Undivided, Rural**Net Length:** 0.385 MI  
2,030 LF**Description:** Reconstruction of 1-Lane Ramps - Floribaska NB Entrance, MLK NB Entrance, MLK SB Exit**Special** PCC pavement with asphalt shoulders. Floribaska NB Entrance (850 LF), MLK NB Entrance**Conditions:** (680 LF), MLK SB Exit (500 LF).**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	24.00 / 24.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.385
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	103.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	2.23	AC	\$15,000.00	\$33,450.00
120-6	EMBANKMENT	4,551.21	CY	\$15.00	\$68,268.15
<b>Earthwork Component Total</b>					<b>\$101,718.15</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	1
Roadway Pavement Width L/R	0.00 / 15.00
Structural Spread Rate	0
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	6,090.48	SY	\$6.50	\$39,588.12
285-702	OPTIONAL BASE,BASE GROUP 02	3,458.04	SY	\$22.50	\$77,805.90
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	3,383.60	SY	\$92.00	\$311,291.20

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	1,800.00	LF	\$31.85	\$57,330.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	150.00	LF	\$30.00	\$4,500.00
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.34	GM	\$25,839.00	\$8,785.26
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.34	GM	\$25,889.00	\$8,802.26



**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$508,102.74

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 4.00
Paved Outside Shoulder Width L/R	2.00 / 2.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	1,051.17 SY	\$18.00	\$18,921.06
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	99.25 TN	\$98.00	\$9,726.50
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	36.09 TN	\$150.00	\$5,413.50
570-1-1	PERFORMANCE TURF	1,353.44 SY	\$2.10	\$2,842.22

**Erosion Control****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	5,278.42 LF	\$1.37	\$7,231.44
104-11	FLOATING TURBIDITY BARRIER	96.12 LF	\$9.79	\$941.01
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	96.12 LF	\$4.06	\$390.25
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	4.66 AC	\$40.27	\$187.66
107-2	MOWING	4.66 AC	\$58.12	\$270.84

**Shoulder Component Total**

\$48,841.48

**DRAINAGE COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-2	CONC CLASS II, ENDWALLS	6.92 CY	\$1,347.35	\$9,323.66



430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	312.00 LF	\$85.17	\$26,573.04
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	64.00 LF	\$140.30	\$8,979.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	16.00 EA	\$1,611.00	\$25,776.00
570-1-1	PERFORMANCE TURF	270.69 SY	\$2.10	\$568.45
<b>Drainage Component Total</b>				<b>\$71,220.35</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	8.00 AS	\$1,288.00	\$10,304.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>				<b>\$14,805.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description****Value**

Multiplier (Number of Poles)

14

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	2,800.00 LF	\$8.43	\$23,604.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	14.00 EA	\$709.00	\$9,926.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	8,400.00 LF	\$2.20	\$18,480.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	14.00 EA	\$6,413.00	\$89,782.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	14.00 EA	\$556.00	\$7,784.00
<b>Subcomponent Total</b>				<b>\$149,576.00</b>

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	8.00 EA	\$800.00	\$6,400.00
715-21-2	LIGHTING REPAIRS AND RETROFITS, LED RETR	8.00 EA	\$1,190.00	\$9,520.00
<b>Lighting Component Total</b>				<b>\$165,496.00</b>

<b>Sequence 7 Total</b>	<b>\$910,183.72</b>
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**Sequence:** 8NUR - New Construction, Undivided, Rural**Net Length:** 0.114 MI  
600 LF**Description:** Reconstruction of 2-Lane Ramps - MLK NB Exit**Special** PCC pavement with asphalt shoulders. MLK NB Exit (600 LF).**Conditions:****EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	30.00 / 30.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.114
Top of Structural Course For Begin Section	103.00
Top of Structural Course For End Section	103.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	5.00 % / 6.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.83	AC	\$15,000.00	\$12,450.00
120-6	EMBANKMENT	2,520.26	CY	\$15.00	\$37,803.90
<b>Earthwork Component Total</b>					<b>\$50,253.90</b>

**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	0
Friction Course Spread Rate	165

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
160-4	TYPE B STABILIZATION	2,399.23	SY	\$6.50	\$15,595.00
285-702	OPTIONAL BASE,BASE GROUP 02	1,643.47	SY	\$22.50	\$36,978.07
350-3-12	PLAIN CEMENT CONC PAVT, 11.5"	1,599.49	SY	\$92.00	\$147,153.08

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
446-1-1	EDGEDRAIN DRAINCRETE, STANDARD	600.00	LF	\$31.85	\$19,110.00
446-71-1	EDGEDRAIN OUTLET PIPE, 4"	50.00	LF	\$30.00	\$1,500.00
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	15.00	EA	\$5.82	\$87.30
713-103-101	PERMANENT TAPE, WHITE,SOLID,6" CONC BR	0.11	GM	\$25,839.00	\$2,842.29



713-103-131	PERMANENT TAPE, WHITE,SKIP/D,6" FOR CONC	0.11 GM	\$8,430.00	\$927.30
713-103-201	PERMANENT TAPE, YELLOW,SOLID,6" CONC BR	0.11 GM	\$25,889.00	\$2,847.79
713-103-331	PERMANENT TAPE, BLACK,SKIP/D,6" FOR CONC	0.11 GM	\$8,406.00	\$924.66

**Pavement Marking Subcomponent**

Description	Value
Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	1

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-1	RAISED PAVMT MARK, TYPE B W/O FINAL SURF	15.00	EA	\$5.82	\$87.30
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	0.23	GM	\$470.00	\$108.10
<b>Roadway Component Total</b>					\$228,160.90

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	6.00 / 6.00
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 4.00
Paved Outside Shoulder Width L/R	2.00 / 2.00
Structural Spread Rate	220
Friction Course Spread Rate	80
Total Width (T) / 8" Overlap (O)	T
Rumble Strips 1/2 No. of Sides	0

**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
285-707	OPTIONAL BASE,BASE GROUP 07	310.57	SY	\$18.00	\$5,590.26
334-1-14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	29.32	TN	\$98.00	\$2,873.36
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	10.66	TN	\$150.00	\$1,599.00
570-1-1	PERFORMANCE TURF	399.87	SY	\$2.10	\$839.73

**Erosion Control****Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	1,559.50	LF	\$1.37	\$2,136.52
104-11	FLOATING TURBIDITY BARRIER	28.40	LF	\$9.79	\$278.04
104-12		28.40	LF	\$4.06	\$115.30



	STAKED TURBIDITY BARRIER- NYL REINF PVC			
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$2,917.00	\$2,917.00
107-1	LITTER REMOVAL	1.38 AC	\$40.27	\$55.57
107-2	MOWING	1.38 AC	\$58.12	\$80.21
<b>Shoulder Component Total</b>				<b>\$16,484.99</b>

**DRAINAGE COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-2-2	CONC CLASS II, ENDWALLS	2.04 CY	\$1,347.35	\$2,748.59
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	96.00 LF	\$85.17	\$8,176.32
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	24.00 LF	\$140.30	\$3,367.20
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	5.00 EA	\$1,611.00	\$8,055.00
570-1-1	PERFORMANCE TURF	79.97 SY	\$2.10	\$167.94
<b>Drainage Component Total</b>				<b>\$22,515.05</b>

**SIGNING COMPONENT****Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	1.00 AS	\$342.00	\$342.00
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	3.00 AS	\$1,288.00	\$3,864.00
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$4,159.00	\$4,159.00
<b>Signing Component Total</b>				<b>\$8,365.00</b>

**LIGHTING COMPONENT****Rural Lighting Subcomponent****Description**

Multiplier (Number of Poles)

**Value**

5

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
630-2-11	CONDUIT, F& I, OPEN TRENCH	1,000.00 LF	\$8.43	\$8,430.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00 EA	\$709.00	\$3,545.00
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,000.00 LF	\$2.20	\$6,600.00
715-4-14	LIGHT POLE COMPLETE, F&I- STD, 45'	5.00 EA	\$6,413.00	\$32,065.00
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00 EA	\$556.00	\$2,780.00
<b>Subcomponent Total</b>				<b>\$53,420.00</b>



**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
715-4-70	LIGHT POLE COMPLETE, REMOVE POLE/FOUND	3.00	EA	\$800.00	\$2,400.00
715-21-2	LIGHTING REPAIRS AND RETROFITS, LED RETR	3.00	EA	\$1,190.00	\$3,570.00
<b>Lighting Component Total</b>					<b>\$59,390.00</b>
<b>Sequence 8 Total</b>					<b>\$385,169.84</b>



**Sequence:** 9 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Corridor-wide Signage**Special** Signage (Estimates provided by HWL 1/6/2020)**Conditions:****SIGNING COMPONENT****Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-60	SINGLE POST SIGN, REMOVE	2.00 AS	\$26.39	\$52.78
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$6,161.00	\$6,161.00
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$636.00	\$636.00
700-3-211	SIGN PANEL, F&I OM, 601 SF AND GREATER	1.00 EA	\$22,600.00	\$22,600.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-13	SINGLE POST SIGN, F&I GM, 21-30 SF	2.00 AS	\$1,536.06	\$3,072.12
700-3-201	SIGN PANEL, F&I OM, UP TO 12 SF	4.00 EA	\$576.00	\$2,304.00
700-3-203	SIGN PANEL, F&I OM, 21-30 SF	12.00 EA	\$1,219.00	\$14,628.00
700-3-205	SIGN PANEL, F&I OM, 51-100 SF	1.00 EA	\$3,601.00	\$3,601.00
700-3-206	SIGN PANEL, F&I OM, 101-200 SF	2.00 EA	\$4,333.00	\$8,666.00
700-3-207	SIGN PANEL, F&I OM, 201-300 SF	7.00 EA	\$6,685.00	\$46,795.00
700-3-603	SIGN PANEL, REMOVE, 21-30 SF	16.00 EA	\$305.00	\$4,880.00
700-3-626	SIGN PANEL, REMOVE, 101-200 SF W LIGHT	8.00 EA	\$1,300.00	\$10,400.00
700-3-627	SIGN PANEL, REMOVE, 201-300 SF W LIGHT	8.00 EA	\$1,600.00	\$12,800.00
700-4-127	OH STATIC SIGN STR, F&I, S 151-200 FT	1.00 EA	\$258,561.00	\$258,561.00
700-4-133	OH STATIC SIGN STR, F&I, M 31-40 FT	3.00 EA	\$54,400.00	\$163,200.00
700-4-135	OH STATIC SIGN STR, F&I, M SP 51-100 FT	1.00 EA	\$136,000.00	\$136,000.00
700-4-633	OH STATIC SIGN STR, REMOVE MONOTUBE	3.00 EA	\$5,338.00	\$16,014.00
700-4-635	OH STATIC SIGN STR, REMOVE MONOTUBE	4.00 EA	\$10,500.00	\$42,000.00
<b>Signing Component Total</b>				<b>\$752,370.90</b>

**Sequence 9 Total****\$752,370.90**



**Sequence:** 10 MIS - Miscellaneous Construction**Net Length:** 0.000 MI  
0 LF**Description:** Corridor Wide ITS**Special** ITS (Estimates provided by HWL 1/07/20)**Conditions:****SIGNING COMPONENT****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
639-6-1	ELECTRICAL POWER SERVICE-TRANSF, F&I	4.00 EA	\$1,500.00	\$6,000.00
700-9-137	WALK-IN DYN MESS SIGN,F&I, FULL,201-	2.00 EA	\$126,800.00	\$253,600.00
700-9-600	WALK-IN DYN MESS SIGN, REMOVE	2.00 EA	\$1,680.00	\$3,360.00
<b>Signing Component Total</b>				<b>\$262,960.00</b>

**SIGNALIZATIONS COMPONENT****Signalization 1**

Description	Value
Type	Miscellaneous
Multiplier	1
Description	

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
641-2-12	PREST CNC POLE,F&I,TYP P-II SRV POLE	4.00 EA	\$1,468.00	\$5,872.00
641-2-13	PREST CNC POLE,F&I,TYP P-III	2.00 EA	\$4,174.00	\$8,348.00
649-2-150	STEEL CCTV POLE, F&I W/ LOW, 50'	1.00 EA	\$21,108.00	\$21,108.00
649-2-605	STEEL CCTV POLE, REMOVE POLE- COMP/DEEP	1.00 EA	\$7,962.00	\$7,962.00
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	3.00 EA	\$1,032.45	\$3,097.35
<b>Signalizations Component Total</b>				<b>\$46,387.35</b>

**INTELLIGENT TRAFFIC SYSTEM (ITS) COMPONENT****Description of Work****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	980.00 LF	\$8.43	\$8,261.40
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	6,917.00 LF	\$20.45	\$141,452.65
630-2-14	CONDUIT, F& I, ABOVEGROUND	75.00 LF	\$23.18	\$1,738.50
633-1-121	FIBER OPTIC CABLE, F&I, UG,2-12	843.00 LF	\$2.87	\$2,419.41
633-1-124	FIBER OPTIC CABLE, F&I, UG,97-144	7,321.00 LF	\$3.56	\$26,062.76



633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	320.00 EA	\$42.60	\$13,632.00
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERM	48.00 EA	\$84.48	\$4,055.04
633-3-11	FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE	6.00 EA	\$890.00	\$5,340.00
633-3-14	FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O	4.00 EA	\$97.87	\$391.48
633-3-16	FIBER OPTIC CONN HDWR, PATCH PANEL- FIE	4.00 EA	\$1,717.50	\$6,870.00
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	570.00 LF	\$5.07	\$2,889.90
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	7.00 EA	\$709.00	\$4,963.00
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36"	14.00 EA	\$1,480.50	\$20,727.00
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" OR 36"	4.00 EA	\$2,689.00	\$10,756.00
639-2-1	ELECTRICAL SERVICE WIRE, F&I	3,580.00 LF	\$6.00	\$21,480.00
639-3-11	ELEC SERV DISCON, F&I, POLE MNT	4.00 EA	\$950.00	\$3,800.00
660-3-11	VEHICLE DETECTION SYSTEM- MICRO,F&I, CAB	2.00 EA	\$2,894.00	\$5,788.00
660-3-12	VEHICLE DETECTION SYSTEM- MICRO,F&I, ABO	2.00 EA	\$7,287.00	\$14,574.00
676-2-122	ITS CABINET- F&I, POLE, 336S	1.00 EA	\$7,824.00	\$7,824.00
676-2-143	ITS CABINET- F&I, BASE, 334	3.00 EA	\$9,337.00	\$28,011.00
676-2-600	ITS CABINET- REMOVE	2.00 EA	\$594.00	\$1,188.00
676-3-10	SMALL EQUIPMENT ENCLOSURE, F&I,>10X13X11	3.00 EA	\$1,181.00	\$3,543.00
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCL-NP.	1.00 EA	\$5,957.00	\$5,957.00
684-1-1	MANAGED FIELD ETHERNET SWITCH, F&I	4.00 EA	\$4,866.00	\$19,464.00
685-1-11	UPS POWER SUPPLY, F&I, LINE INTERACTIVE	4.00 EA	\$5,502.00	\$22,008.00

**EX-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
660-7	WWD DETECTION SYSTEM <b>Comment:</b> I-275 NB Exit 46B @ MLK Blvd, I-275 SB Exit 46B @ MLK Blvd, I-275 SB Exit 46A @ Floribraska Ave	3.00 EA	\$50,000.00	\$150,000.00
<b>Intelligent Traffic System (ITS) Component Total</b>				\$533,196.14
<b>Sequence 10 Total</b>				\$842,543.49



**Sequence:** 11 NUU - New Construction, Undivided, Urban**Net Length:** 0.046 MI  
240 LF**Description:** Underpass Enhancements - Floribraska Ave.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	25.00 / 25.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.000
Top of Structural Course For Begin Section	100.00
Top of Structural Course For End Section	100.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.28	AC	\$15,000.00	\$4,200.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	1,235.00	SY	\$22.13	\$27,330.55
120-1	REGULAR EXCAVATION	495.00	CY	\$9.00	\$4,455.00

<b>Earthwork Component Total</b>					<b>\$35,985.55</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	0
Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-0-11	CONC CLASS NS, GRAVITY WALL	232.00	CY	\$600.00	\$139,200.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	520.00	LF	\$30.00	\$15,600.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N



Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$154,800.00

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,700.00 SY	\$46.00	\$78,200.00
<b>Shoulder Component Total</b>				<b>\$78,200.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value
Spacing				MAX
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	100.00 LF	\$8.43	\$843.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	50.00 LF	\$20.45	\$1,022.50
Subcomponent Total				\$1,865.50

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-14	CONDUIT, F& I, ABOVEGROUND	400.00 LF	\$23.18	\$9,272.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	3.00 EA	\$709.00	\$2,127.00
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	550.00 LF	\$1.45	\$797.50
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	1.00 EA	\$1,297.00	\$1,297.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	16.00 EA	\$1,300.00	\$20,800.00
<b>Lighting Component Total</b>				<b>\$36,159.00</b>

**MISCELLANEOUS COMPONENT****X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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400-143	CLEAN & COAT CONCRETE SURF , CLASS 5	19,446.00 SF	\$1.71	\$33,252.66
<b>Miscellaneous Component Total</b>				\$33,252.66
<b>Sequence 11 Total</b>				\$338,397.21



**Sequence:** 12 NUU - New Construction, Undivided, Urban**Net Length:** 0.055 MI  
290 LF**Description:** Underpass Enhancements - Lake Ave.**LIGHTING COMPONENT****Conventional Lighting Subcomponent****Description**

Spacing

**Value**

MAX

**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	300.00 LF	\$8.43	\$2,529.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00 LF	\$20.45	\$4,090.00
<b>Subcomponent Total</b>				<b>\$6,619.00</b>

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-14	CONDUIT, F& I, ABOVEGROUND	400.00 LF	\$23.18	\$9,272.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$709.00	\$2,836.00
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	900.00 LF	\$1.45	\$1,305.00
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	1.00 EA	\$1,297.00	\$1,297.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	8.00 EA	\$1,300.00	\$10,400.00
<b>Lighting Component Total</b>				<b>\$31,729.00</b>

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**Sequence 12 Total** **\$31,729.00**


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**Sequence:** 13 NUU - New Construction, Undivided, Urban**Net Length:** 0.050 MI  
265 LF**Description:** Underpass Enhancements - MLK Blvd.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	39.00 / 39.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.000
Top of Structural Course For Begin Section	100.00
Top of Structural Course For End Section	100.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.47	AC	\$15,000.00	\$7,050.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	1,699.00	SY	\$22.13	\$37,598.87
120-1	REGULAR EXCAVATION	1,934.00	CY	\$9.00	\$17,406.00

<b>Earthwork Component Total</b>	<b>\$62,054.87</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	0
Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
455-133-3	SHEET PILING STEEL, F&I PERMANENT	6,334.00	SF	\$240.00	\$1,520,160.00
<b>Comment:</b> Cut-back walls for removing sloped embankment under the north and south bridge abutments. \$240/SF unit price based upon the actual bid unit price for I-275 Bearss wall, escalated for inflation.					

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	1,370.00	LF	\$30.00	\$41,100.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
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Include Thermo/Tape/Other	N
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$1,561,260.00

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2,282.00 SY	\$46.00	\$104,972.00

**Shoulder Component Total**

\$104,972.00

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value
Spacing				MAX
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	300.00 LF	\$8.43	\$2,529.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00 LF	\$20.45	\$4,090.00
Subcomponent Total				\$6,619.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-14	CONDUIT, F& I, ABOVEGROUND	400.00 LF	\$23.18	\$9,272.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$709.00	\$2,836.00
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	900.00 LF	\$1.45	\$1,305.00
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	1.00 EA	\$1,297.00	\$1,297.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	8.00 EA	\$1,300.00	\$10,400.00

**Lighting Component Total**

\$31,729.00

**Sequence 13 Total**

\$1,760,015.87



**Sequence:** 14 NUU - New Construction, Undivided, Urban**Net Length:** 0.060 MI  
315 LF**Description:** Underpass Enhancements - Chelsea Ave.**EARTHWORK COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Standard Clearing and Grubbing Limits L/R	10.00 / 10.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.000
Top of Structural Course For Begin Section	100.00
Top of Structural Course For End Section	100.00
Horizontal Elevation For Begin Section	100.00
Horizontal Elevation For End Section	100.00
Front Slope L/R	6 to 1 / 6 to 1
Outside Shoulder Cross Slope L/R	2.00 % / 2.00 %
Roadway Cross Slope L/R	2.00 % / 2.00 %

**Pay Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-1-1	CLEARING & GRUBBING	0.15	AC	\$15,000.00	\$2,250.00

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
110-4-10	REMOVAL OF EXIST CONC	395.00	SY	\$22.13	\$8,741.35
120-1	REGULAR EXCAVATION	395.00	CY	\$9.00	\$3,555.00

<b>Earthwork Component Total</b>	<b>\$14,546.35</b>
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**ROADWAY COMPONENT****User Input Data**

<b>Description</b>	<b>Value</b>
Number of Lanes	0
Roadway Pavement Width L/R	0.00 / 0.00
Structural Spread Rate	275
Friction Course Spread Rate	165

**X-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
400-0-11	CONC CLASS NS, GRAVITY WALL	232.00	CY	\$600.00	\$139,200.00

**EX-Items**

<b>Pay item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Extended Amount</b>
550-10-804	FENCING, OMEGA, WIRE WORKS	603.00	LF	\$30.00	\$18,090.00

**Pavement Marking Subcomponent**

<b>Description</b>	<b>Value</b>
Include Thermo/Tape/Other	N



Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	2
Solid Stripe No. of Stripes	0
Skip Stripe No. of Paint Applications	2
Skip Stripe No. of Stripes	0

**Roadway Component Total**

\$157,290.00

**SHOULDER COMPONENT****User Input Data**

Description	Value
Total Outside Shoulder Width L/R	0.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	0.00 / 0.00
Sidewalk Width L/R	0.00 / 0.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	689.00 SY	\$46.00	\$31,694.00
<b>Shoulder Component Total</b>				<b>\$31,694.00</b>

**LIGHTING COMPONENT****Conventional Lighting Subcomponent**

Description				Value
Spacing				MAX
Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	300.00 LF	\$8.43	\$2,529.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	200.00 LF	\$20.45	\$4,090.00
Subcomponent Total				\$6,619.00

**X-Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-14	CONDUIT, F& I, ABOVEGROUND	400.00 LF	\$23.18	\$9,272.00
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	4.00 EA	\$709.00	\$2,836.00
715-1-12	LIGHTING CONDUCTORS, F&I, INSUL,NO.8-6	900.00 LF	\$1.45	\$1,305.00
715-7-21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	1.00 EA	\$1,297.00	\$1,297.00
715-11-125	LUMINAIRE,F&I,UNDER DECK, WALL MOUNT	8.00 EA	\$1,300.00	\$10,400.00
<b>Lighting Component Total</b>				<b>\$31,729.00</b>

**Sequence 14 Total**

\$235,259.35



Date: 3/24/2020 3:53:45 PM

## FDOT Long Range Estimating System - Production

### R3: Project Details by Sequence Report

**Project:** 443770-1-52-01**Letting Date:** 05/2021**Description:** I-275 (SR 93) FROM N OF I-4 TO N OF MLK**District:** 07**County:** 10 HILLSBOROUGH**Market Area:** 08**Units:** English**Contract Class:** 9 Lump Sum Project: N**Design/Build:** Y**Project Length:** 1.572 MI**Project Manager:** PRD-MLG**Version 8 Project Grand Total****\$43,011,029.91**

**Description:** WPUC 2020 w/ 1.64% Slab Replacement (No Outside BRT Accommodations) Created by: Jeff Drapp (HNTB) Checked by HWL

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<b>Project Sequences Subtotal</b>		<b>\$31,953,412.89</b>
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102-1	Maintenance of Traffic	8.00 %	\$2,556,273.03
101-1	Mobilization	8.00 %	\$2,760,774.87

<b>Project Sequences Total</b>		<b>\$37,270,460.79</b>
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Project Unknowns	15.00 %	\$5,590,569.12
Design/Build	0.00 %	\$0.00

**Non-Bid Components:**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
999-25	INITIAL CONTINGENCY AMOUNT (DO NOT BID)		LS	\$150,000.00	\$150,000.00

<b>Project Non-Bid Subtotal</b>		<b>\$150,000.00</b>
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<b>Version 8 Project Grand Total</b>		<b>\$43,011,029.91</b>
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