

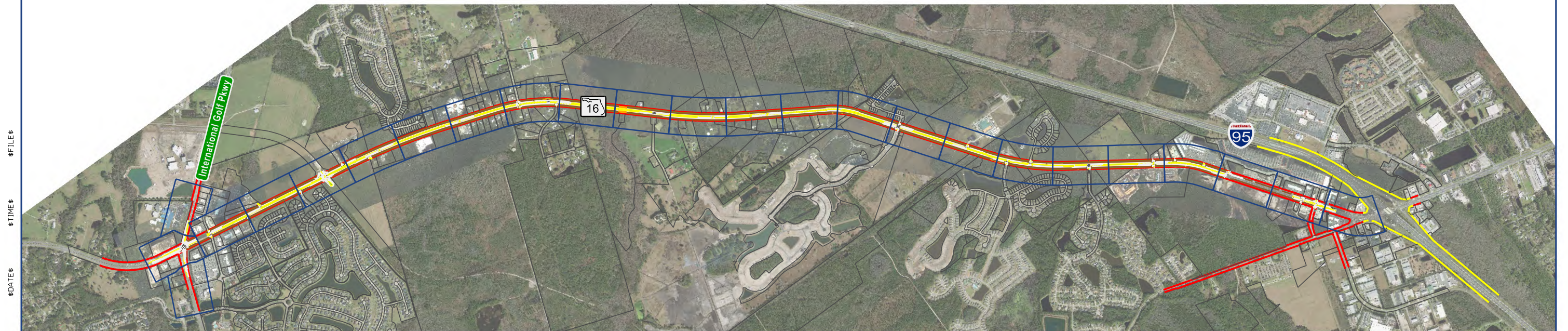
Appendix A:

Build Alternative Concept Plan Sheets

(As shown at the Alternatives Public Meeting)



Appendix A: Build Alternative Plan Sheets



SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

Appendix A:
Build Alternative
Plan Sheets

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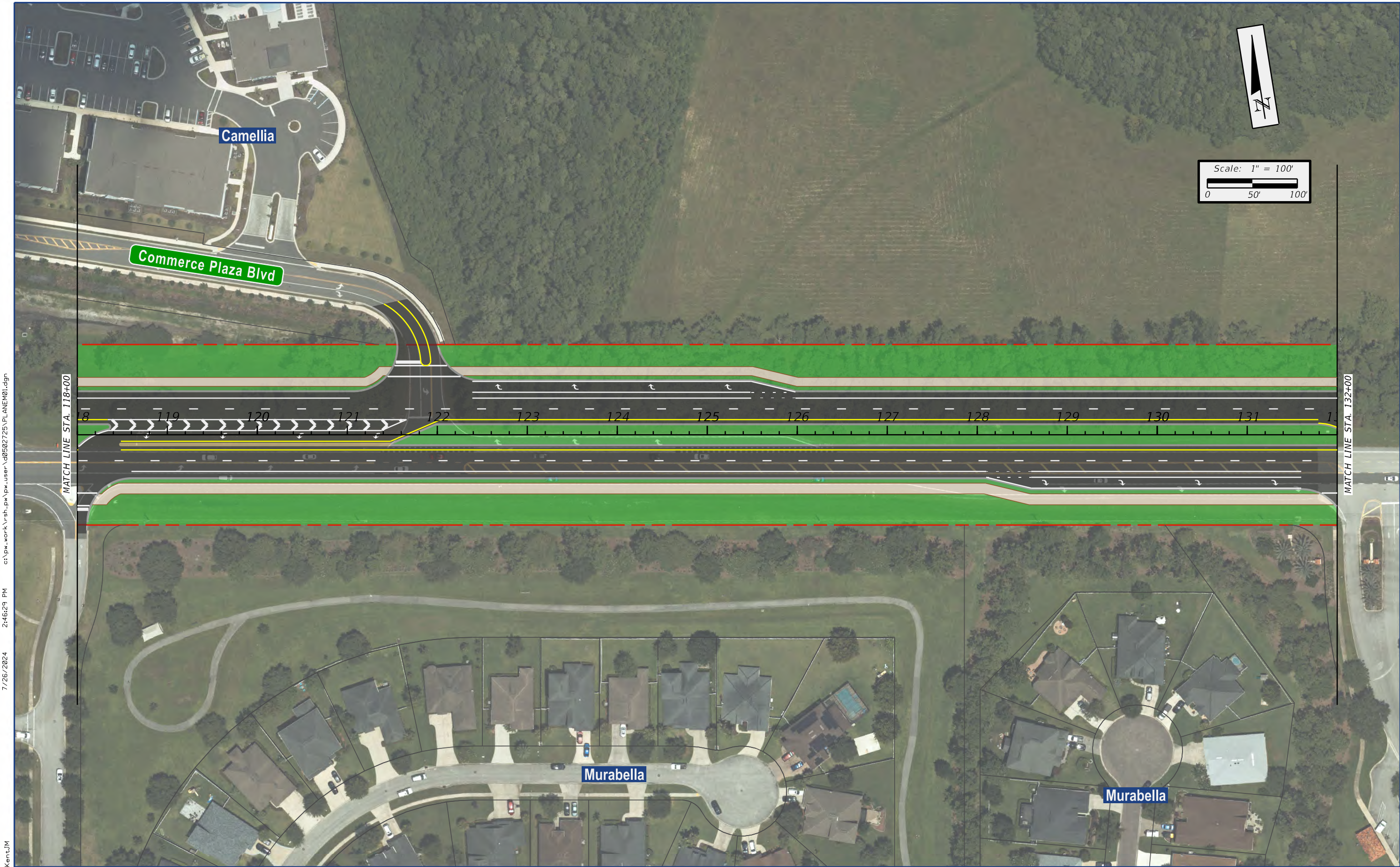
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SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

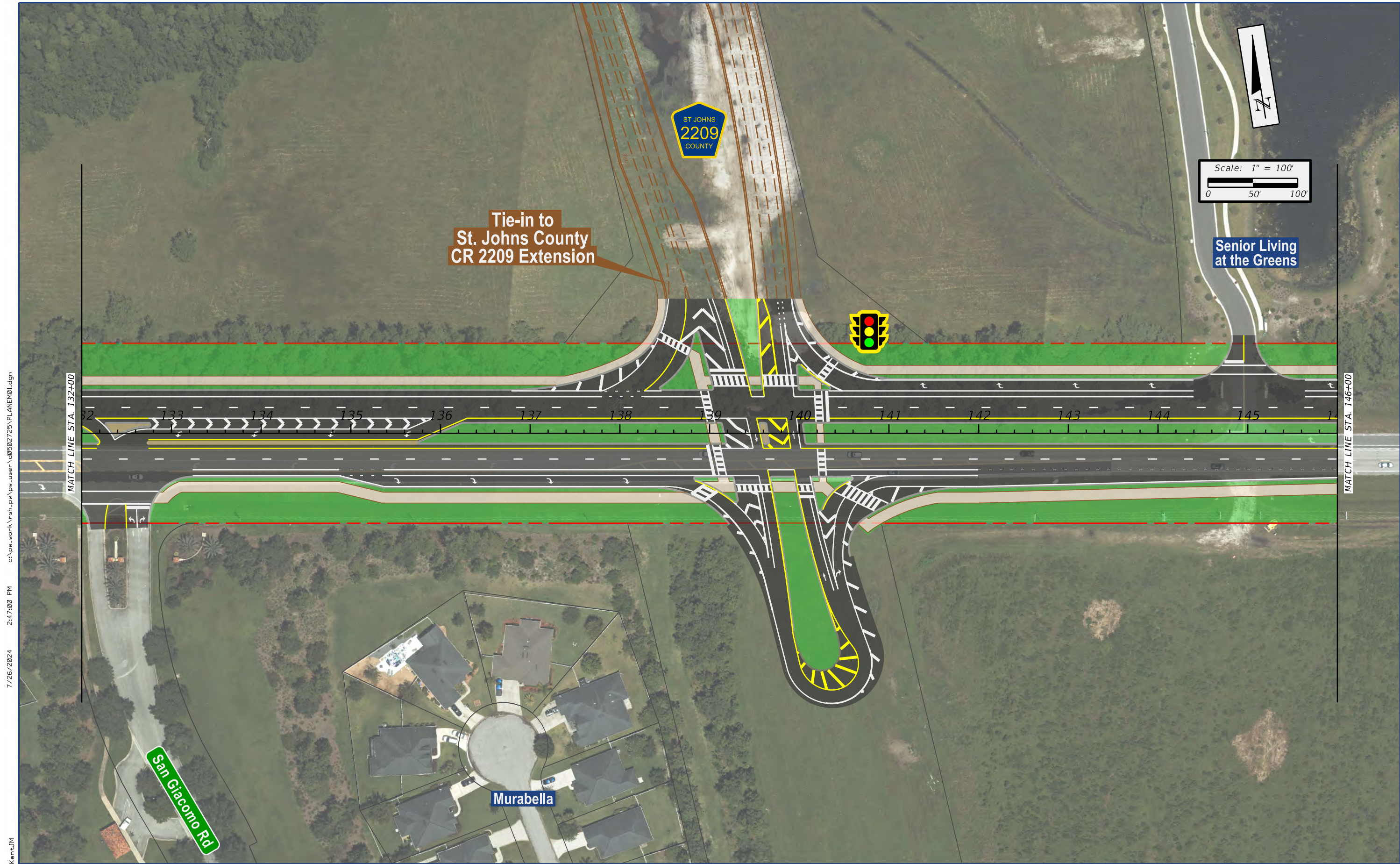
- Property Lines
- Existing Right-of-Way
- Proposed Right-of-Way
- Proposed Roadway

- Proposed Bridge
- Proposed Retaining Wall
- Proposed Shared Use Path
- Proposed Sod

- Proposed Traffic Separator
- Existing Transmission Poles
- Existing Traffic Signal
- Proposed Traffic Signal

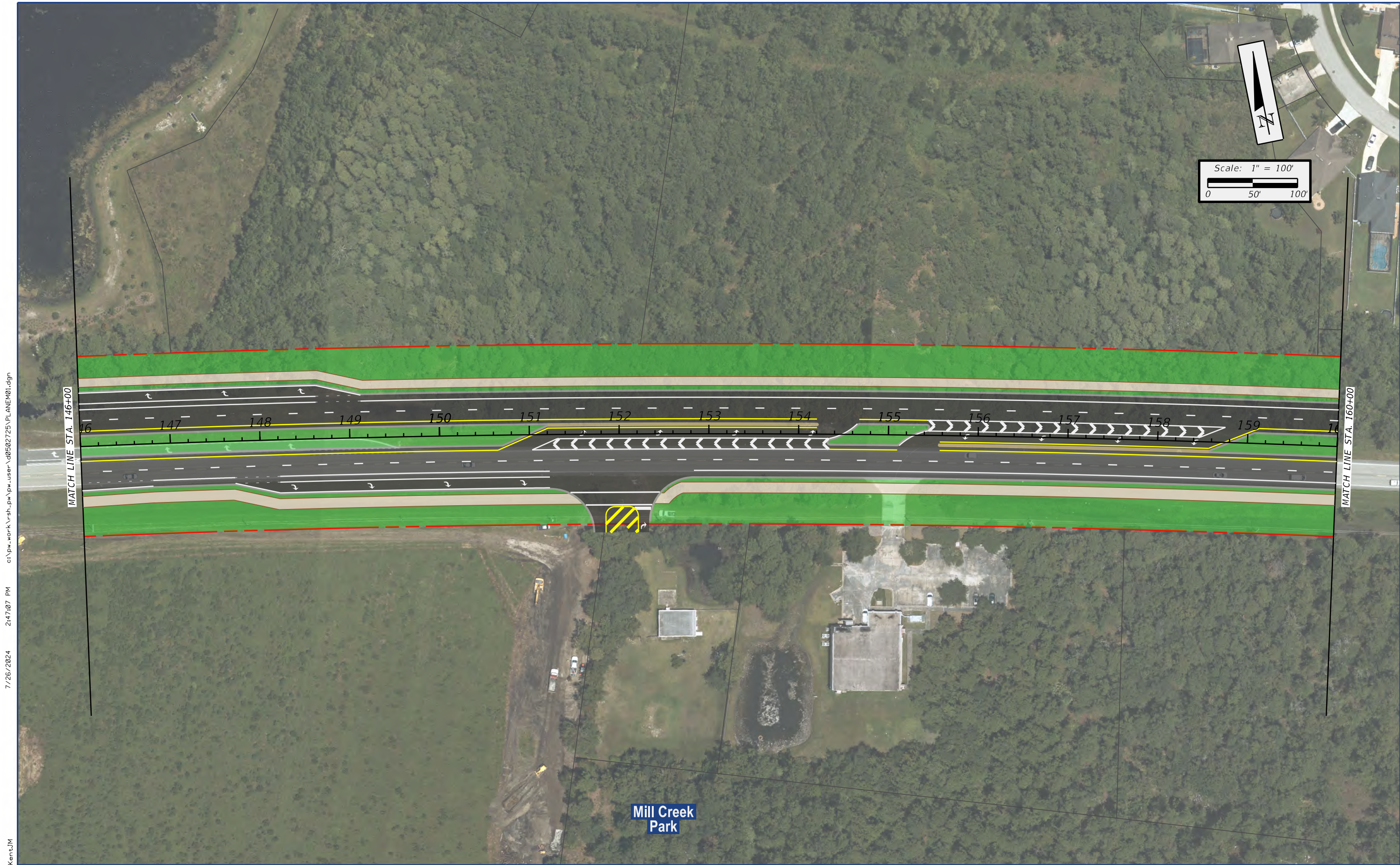
Appendix A:
Build Alternative
Plan Sheets

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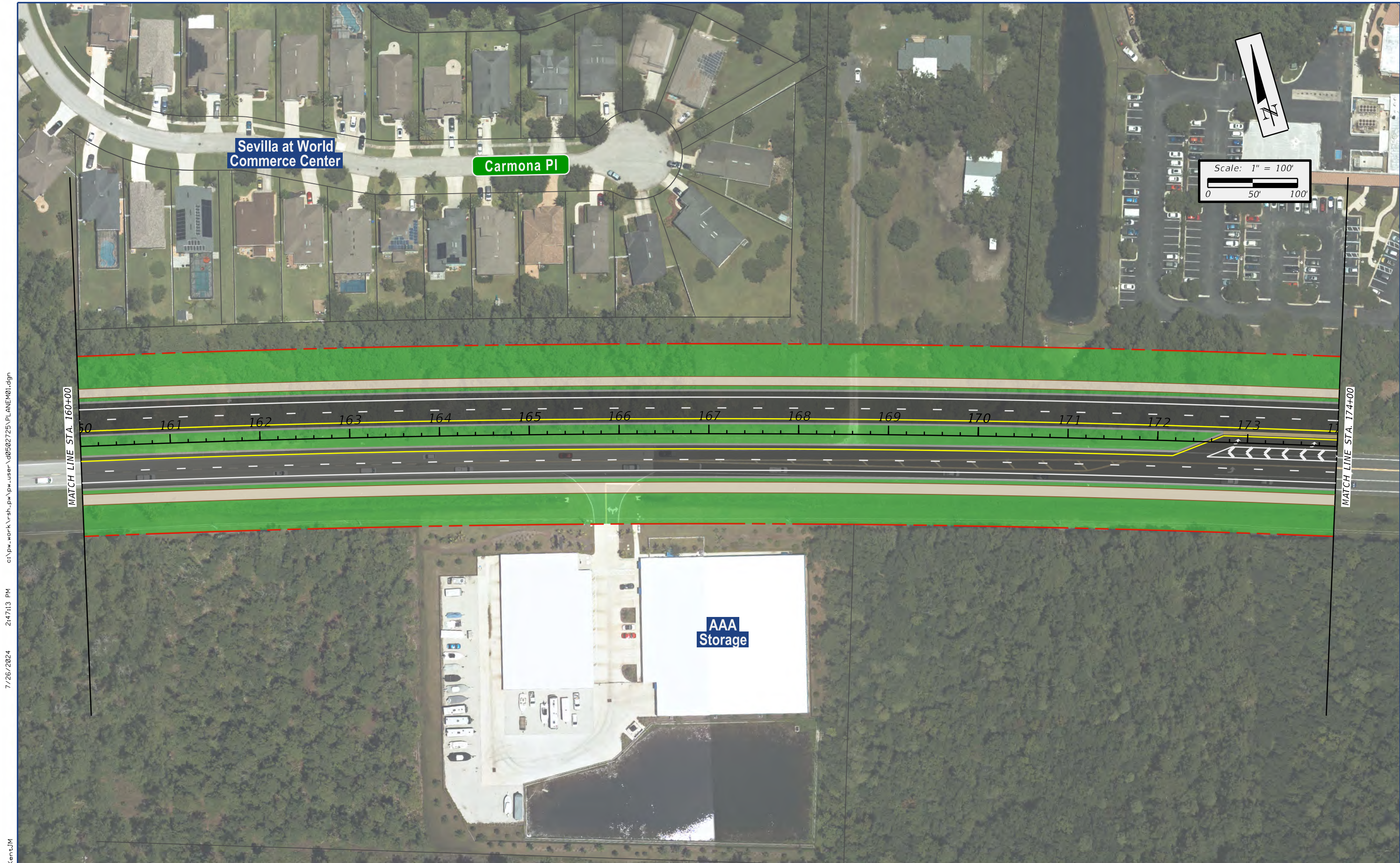
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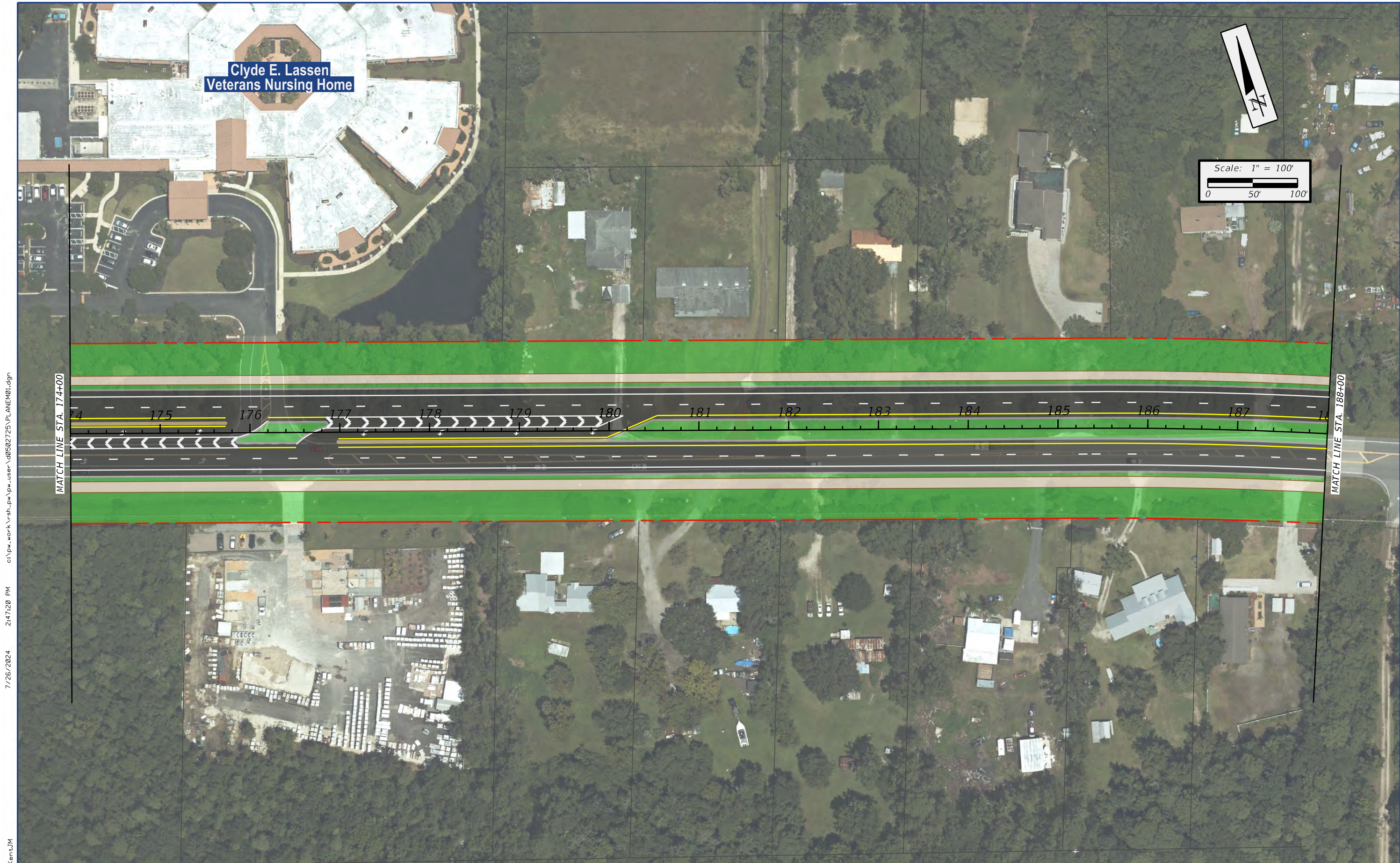
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	— Property Lines - - - Existing Right-of-Way - - - Proposed Right-of-Way - - - Proposed Roadway	— Proposed Bridge — Proposed Retaining Wall — Proposed Shared Use Path — Proposed Sod	— Proposed Traffic Separator ● Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO. 6
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SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

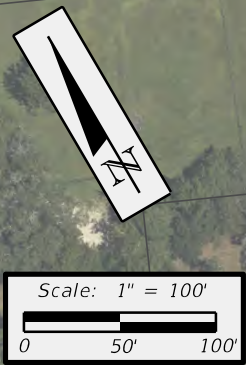
- Property Lines
- Existing Right-of-Way
- Proposed Right-of-Way
- Proposed Roadway

- Proposed Bridge
- Proposed Retaining Wall
- Proposed Shared Use Path
- Proposed Sod

- Proposed Traffic Separator
- Existing Transmission Poles
- Existing Traffic Signal
- Proposed Traffic Signal

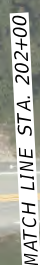
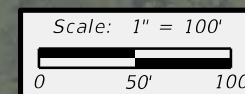
Appendix A:
Build Alternative
Plan Sheets

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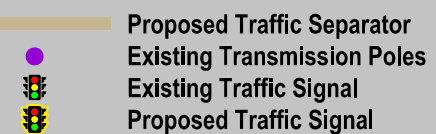
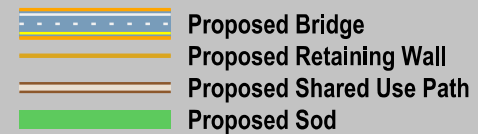
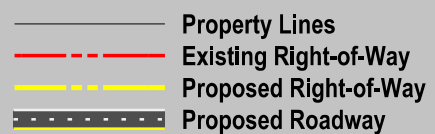


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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	— Property Lines - - - Existing Right-of-Way - - - Proposed Right-of-Way - - - Proposed Roadway	— Proposed Bridge — Proposed Retaining Wall — Proposed Shared Use Path — Proposed Sod	— Proposed Traffic Separator Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO. 8
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**SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535**



Appendix A: Build Alternative Plan Sheets

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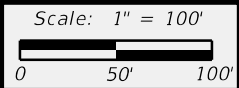
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SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

Property Lines
Existing Right-of-Way
Proposed Right-of-Way
Proposed Roadway

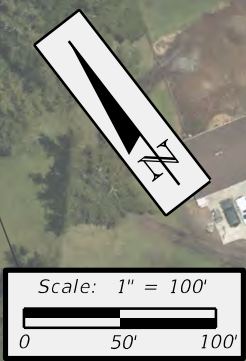
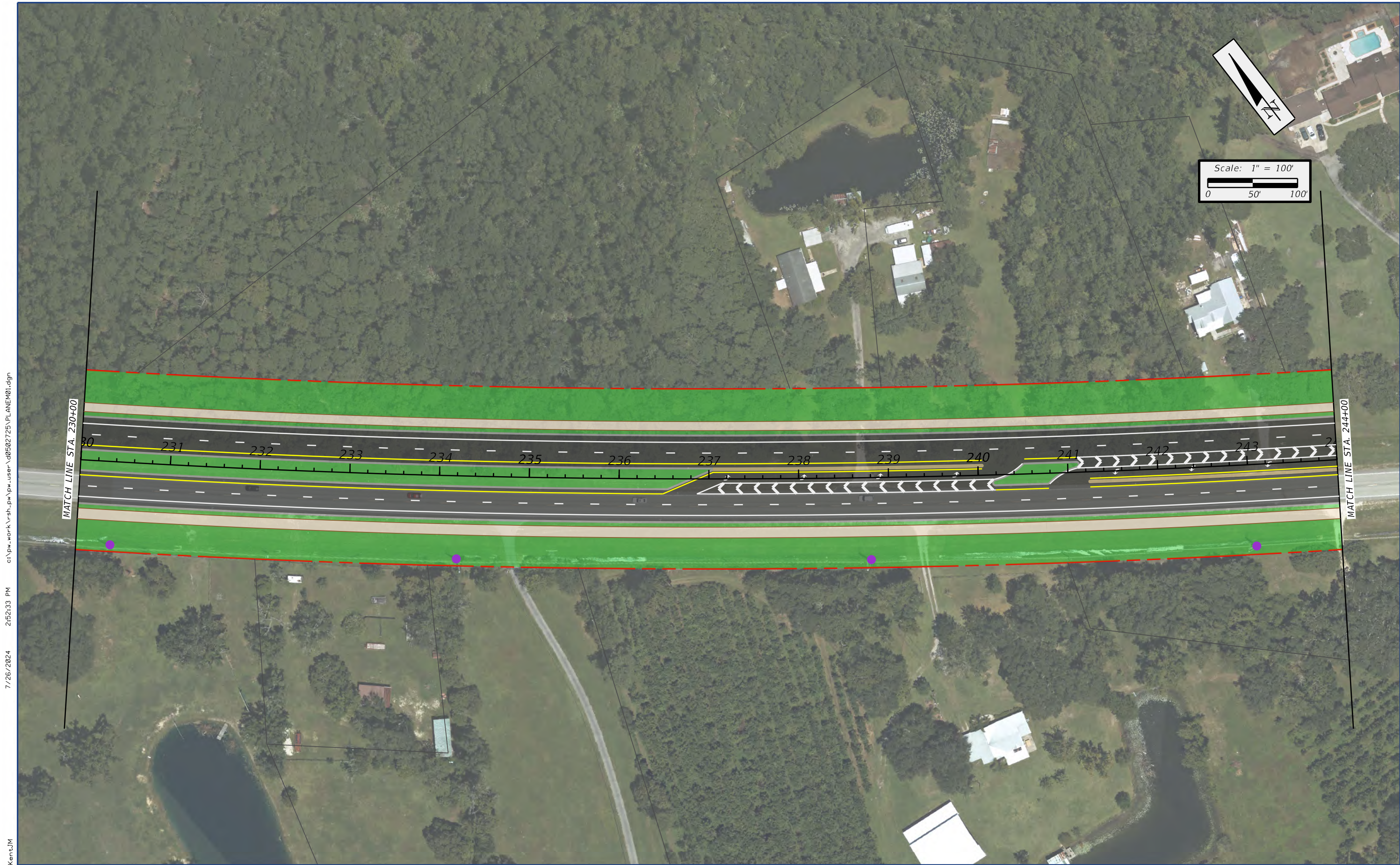
Proposed Bridge
Proposed Retaining Wall
Proposed Shared Use Path
Proposed Sod

Proposed Traffic Separator
Existing Transmission Poles
Existing Traffic Signal
Proposed Traffic Signal

Appendix A:
Build Alternative
Plan Sheets

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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	——— Property Lines - - - Existing Right-of-Way - - - Proposed Right-of-Way - - - Proposed Roadway	Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod	Proposed Traffic Separator Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO. 11
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SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

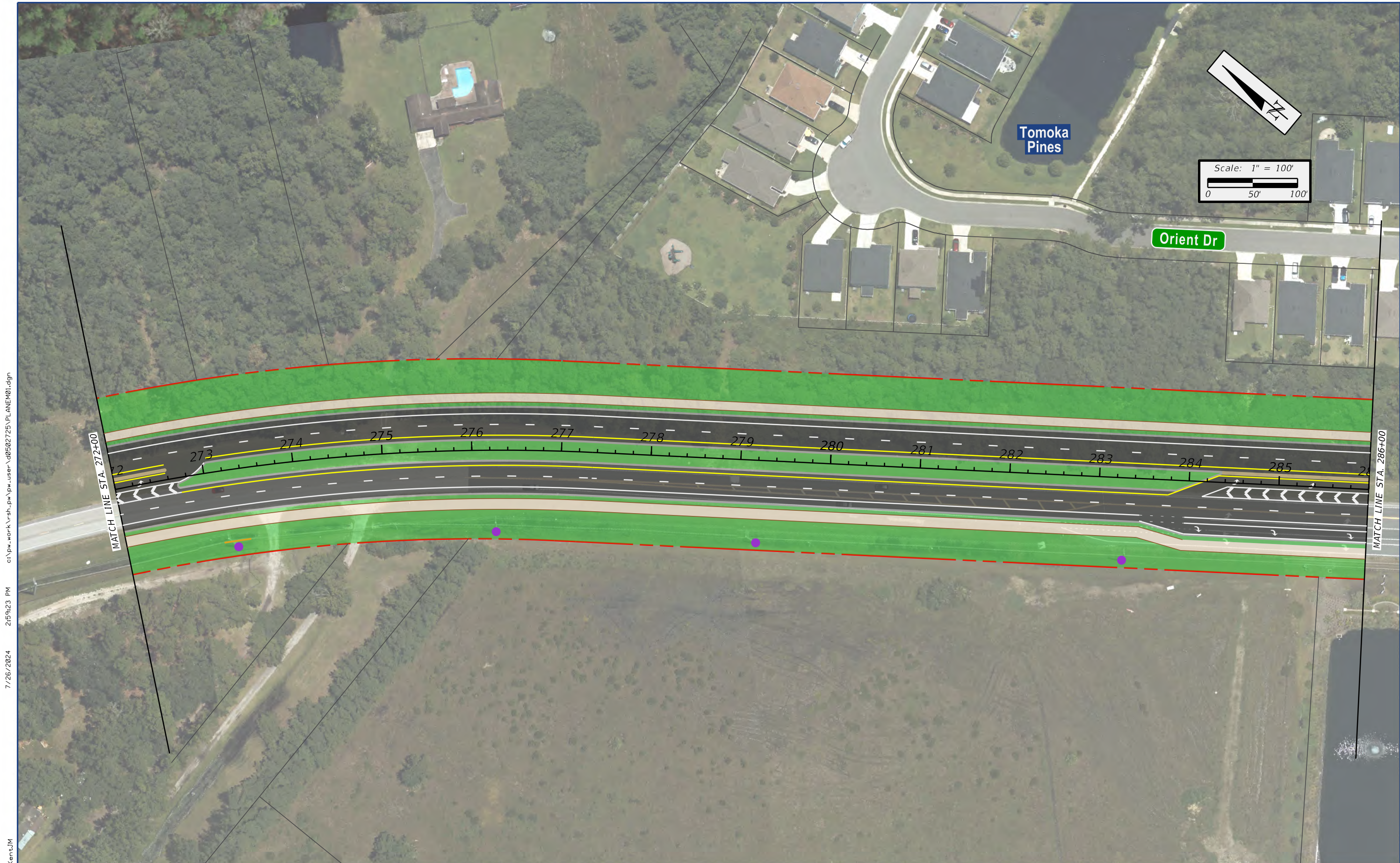
- Property Lines
- Existing Right-of-Way
- Proposed Right-of-Way
- Proposed Roadway

- Proposed Bridge
- Proposed Retaining Wall
- Proposed Shared Use Path
- Proposed Sod

- Proposed Traffic Separator
- Existing Transmission Poles
- Existing Traffic Signal
- Proposed Traffic Signal

Appendix A:
Build Alternative
Plan Sheets

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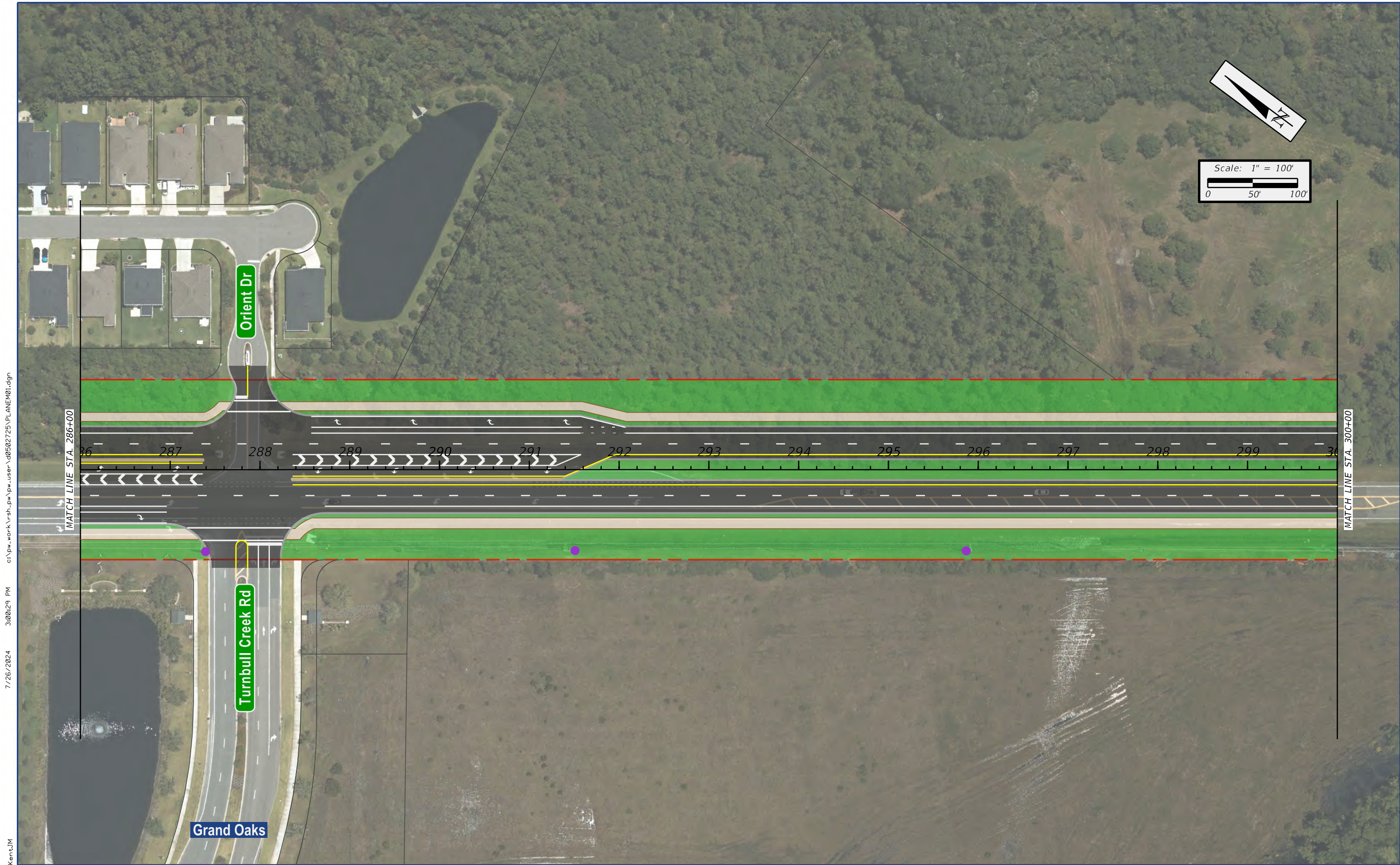
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Proposed Traffic Separator

Existing Transmission Poles

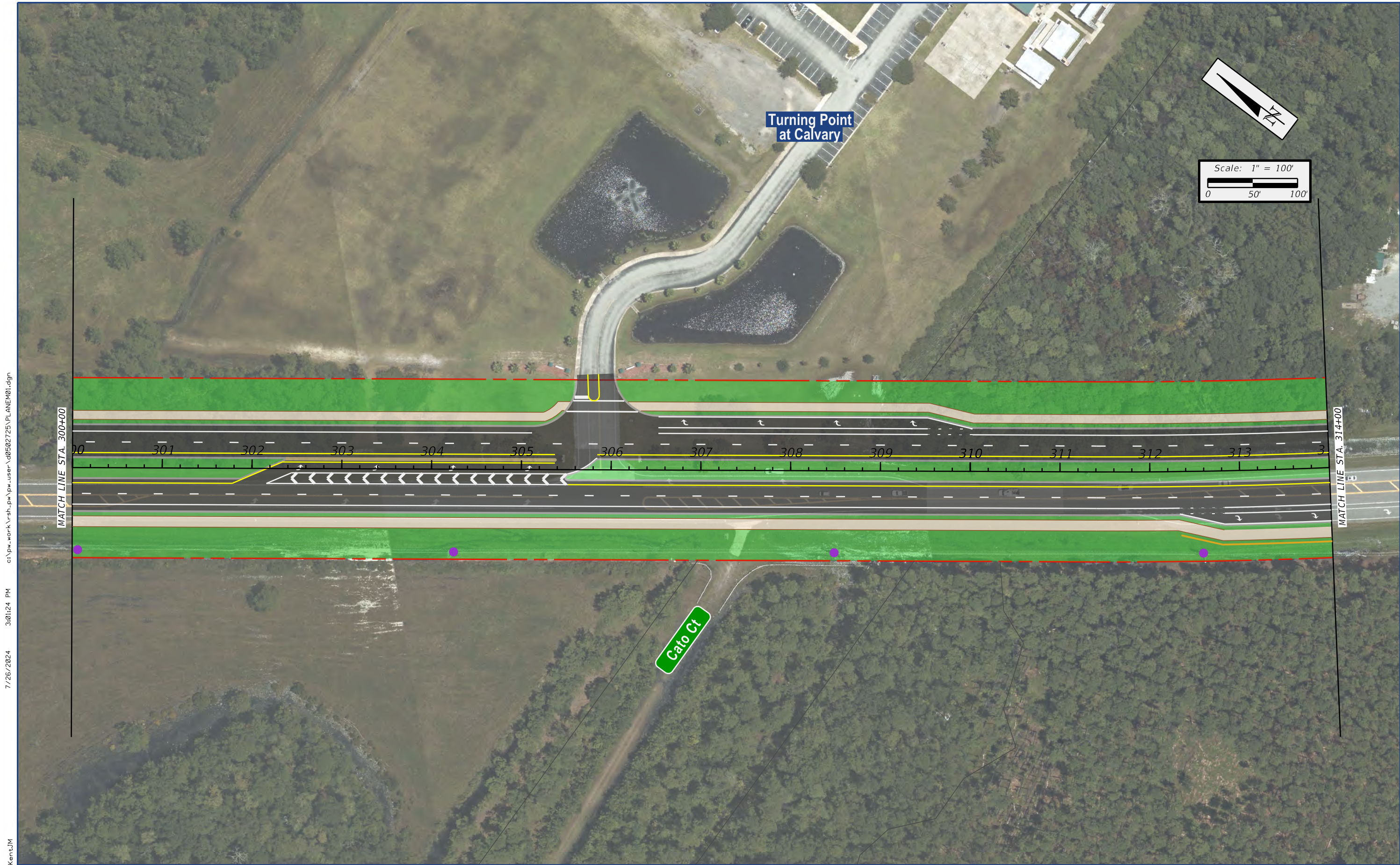
Existing Traffic Signal

Proposed Traffic Signal



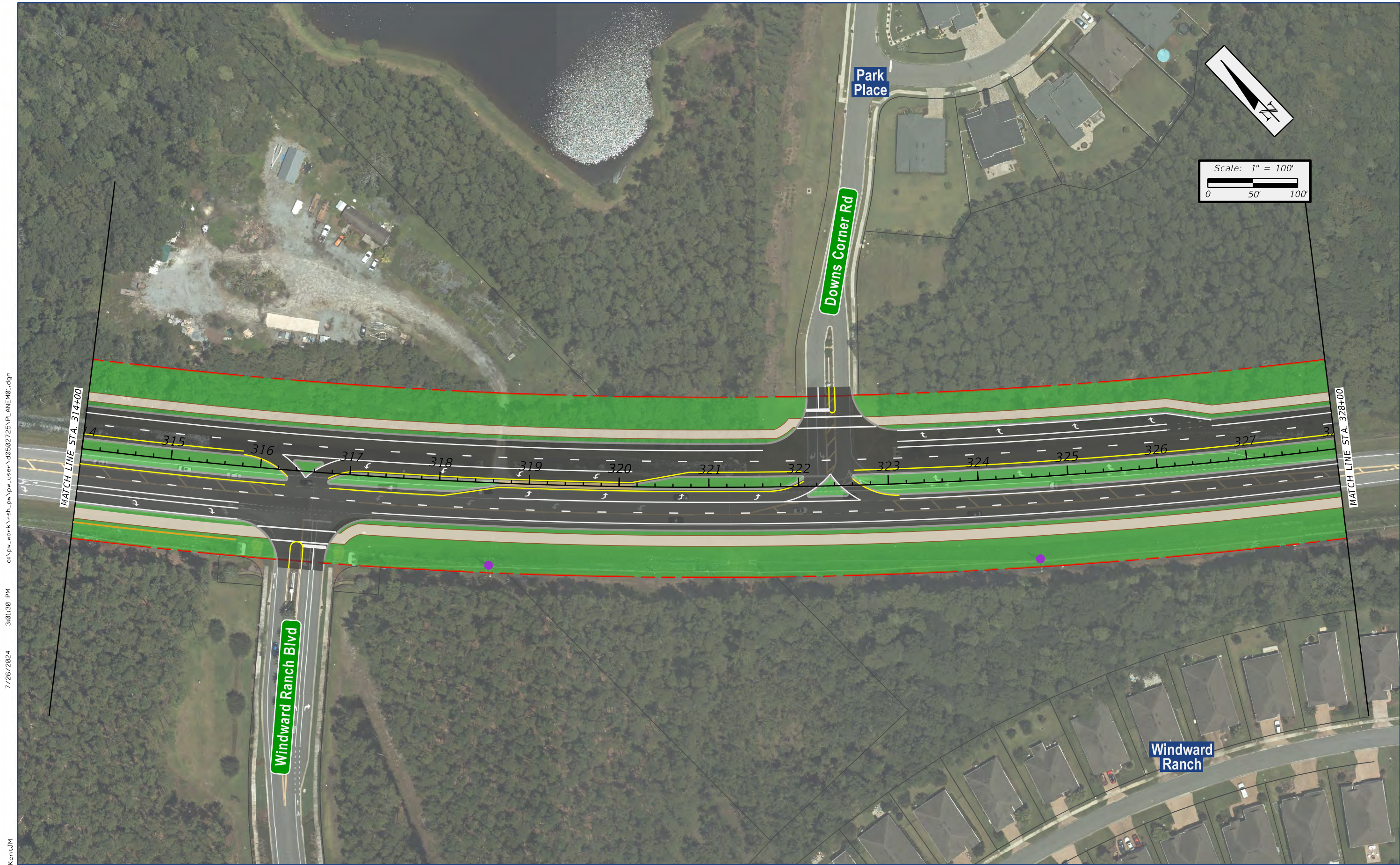
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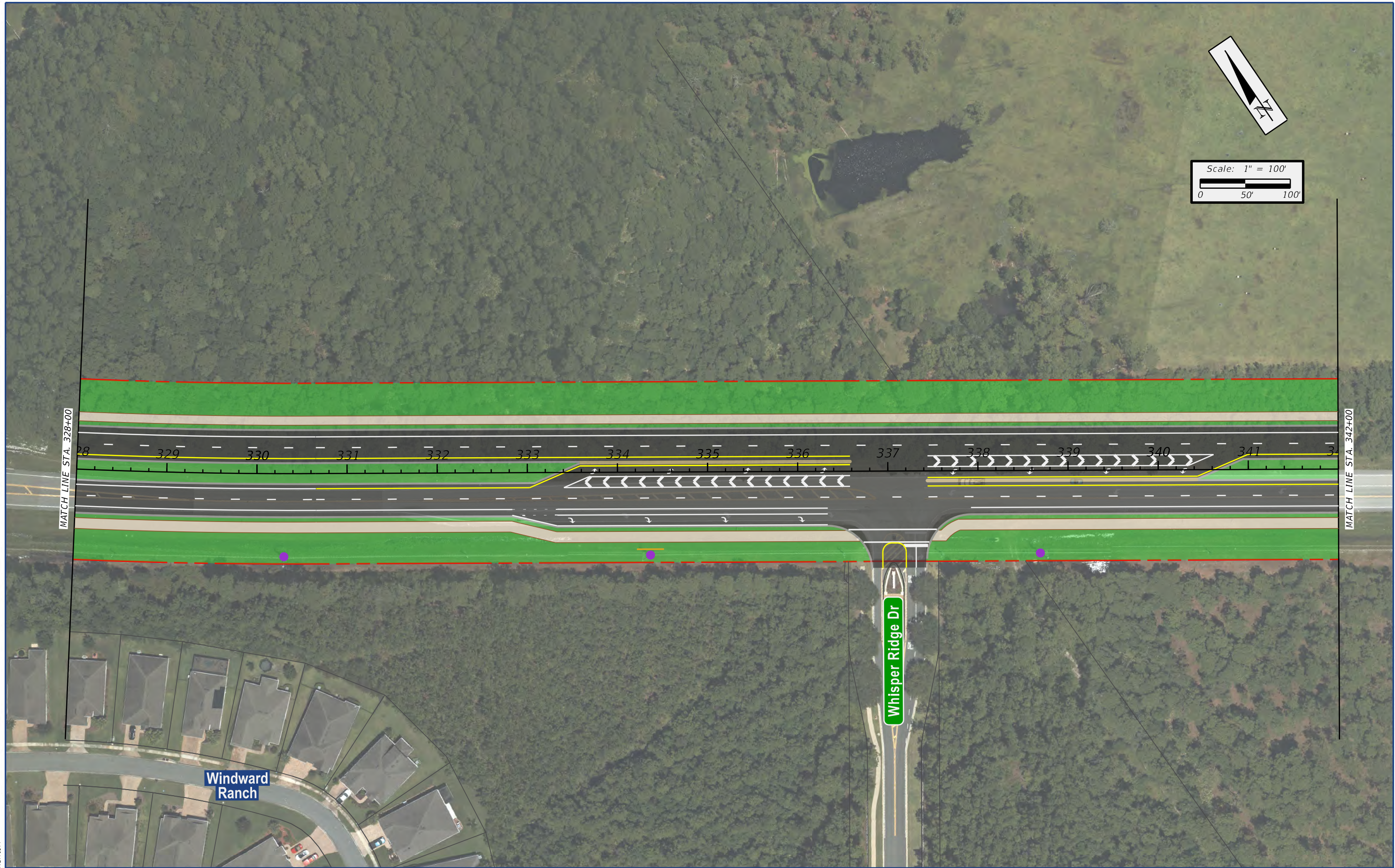
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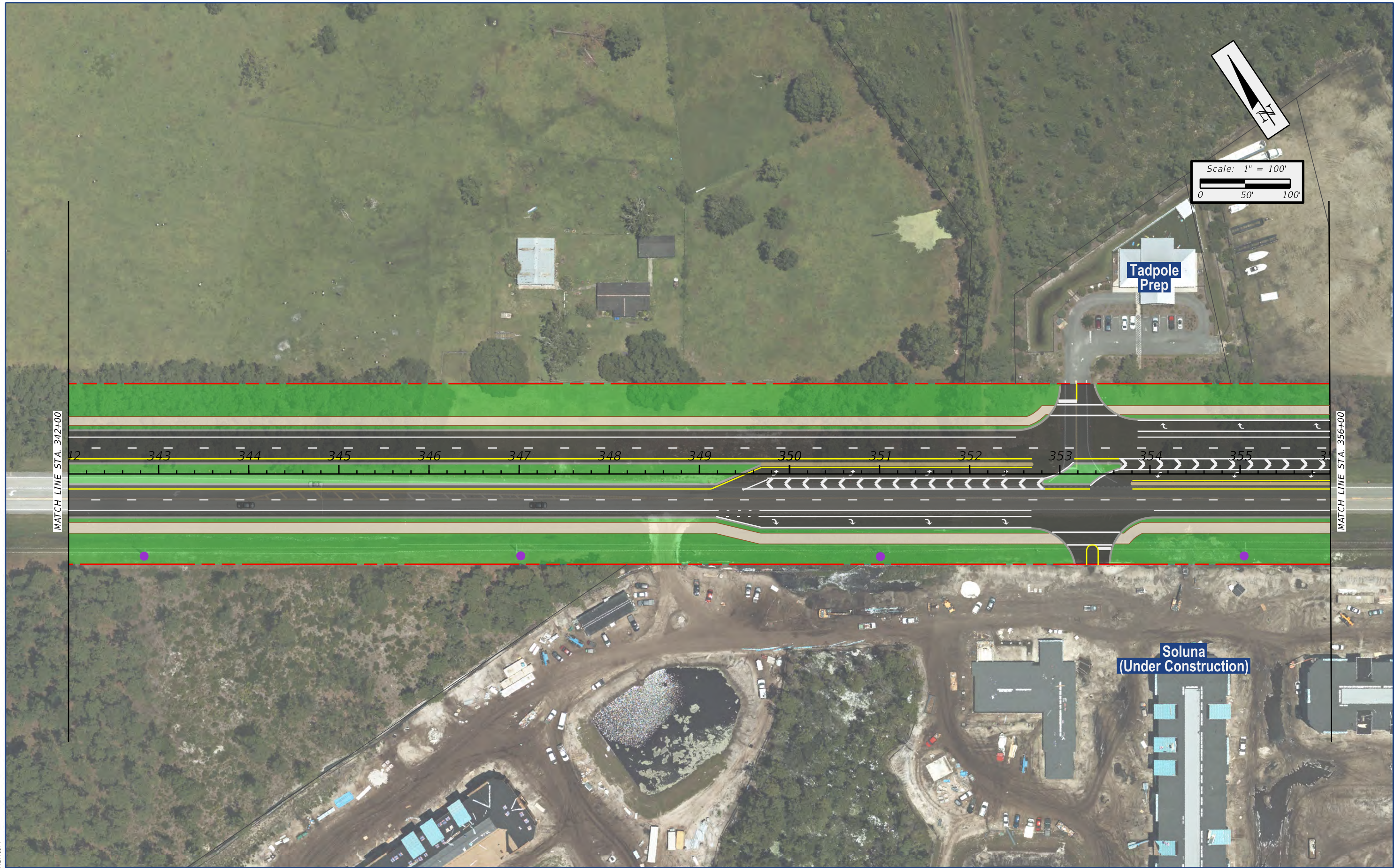
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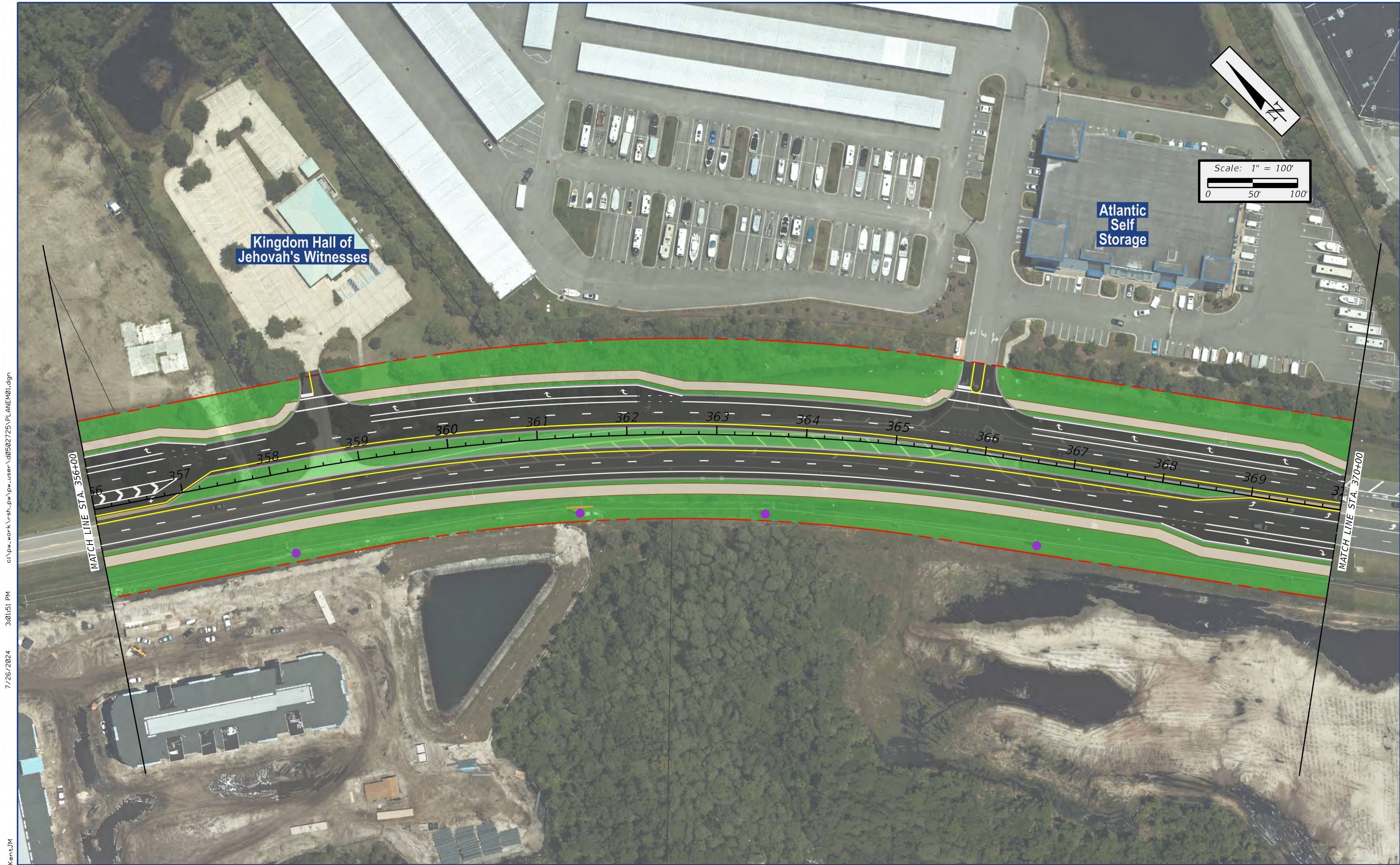


	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO.
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO.
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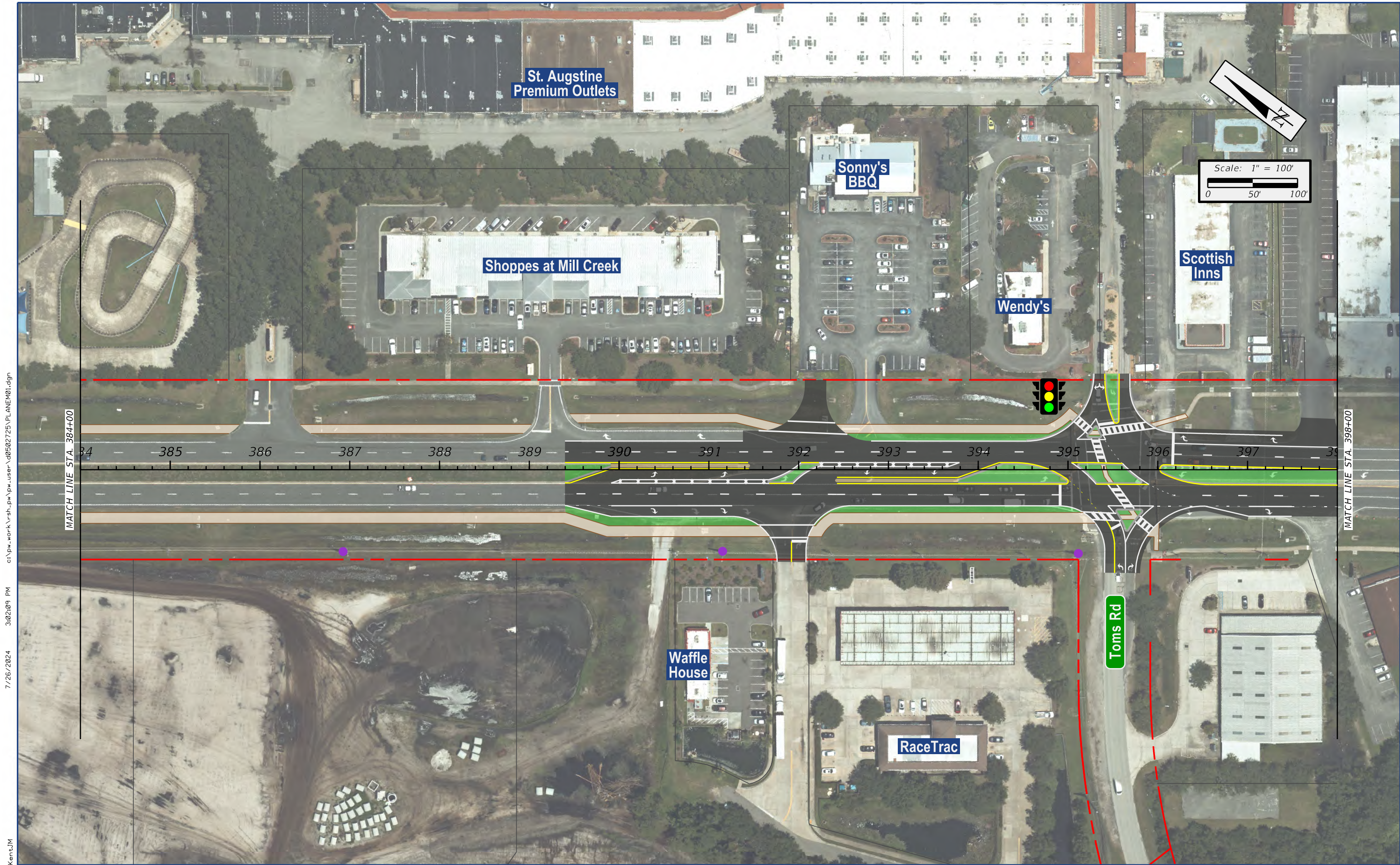
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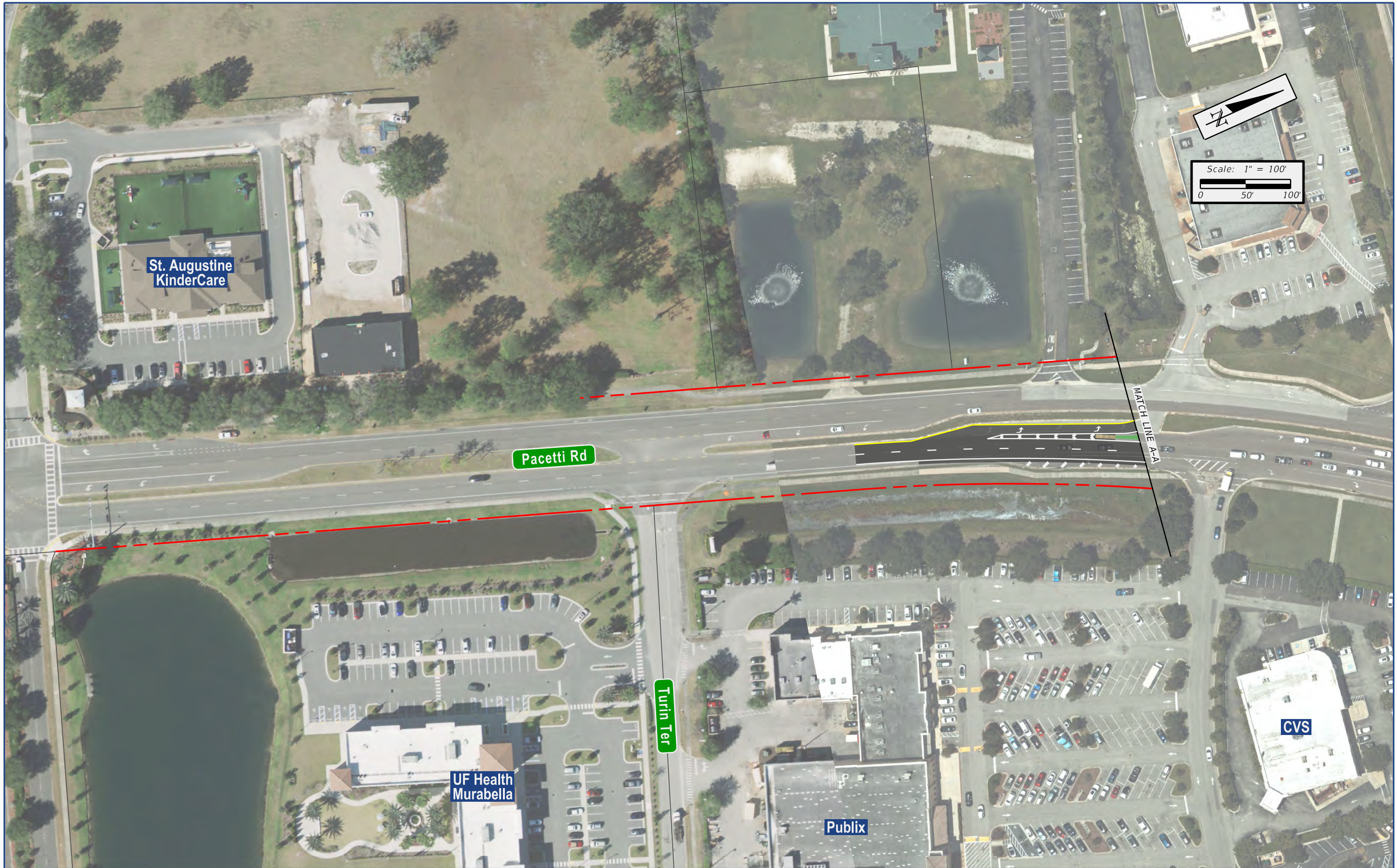
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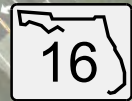
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Existing Transmission Poles Existing Traffic Signal Proposed Traffic Signal	Appendix A: Build Alternative Plan Sheets	SHEET NO.
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SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

- Property Lines
- Existing Right-of-Way
- Proposed Right-of-Way
- Proposed Roadway

- Proposed Bridge
- Proposed Retaining Wall
- Proposed Shared Use Path
- Proposed Sod

- Proposed Traffic Separator
- Existing Transmission Poles
- Existing Traffic Signal
- Proposed Traffic Signal

Appendix A:
Build Alternative
Plan Sheets

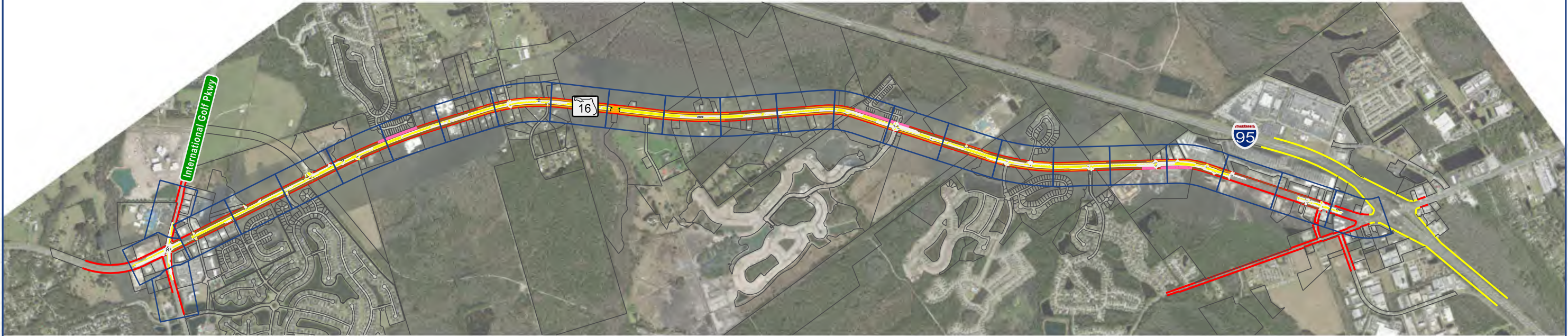
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Appendix B:

Preferred Alternative Concept Plan Sheets



Appendix B: Preferred Alternative Plan Sheets



Index of Drawings

Sheet Number	Sheet Description
1-25	Concept Plan Sheets
26	Preferred Pond Overview Sheet



SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

Appendix B:
Preferred Alternative
Plan Sheets

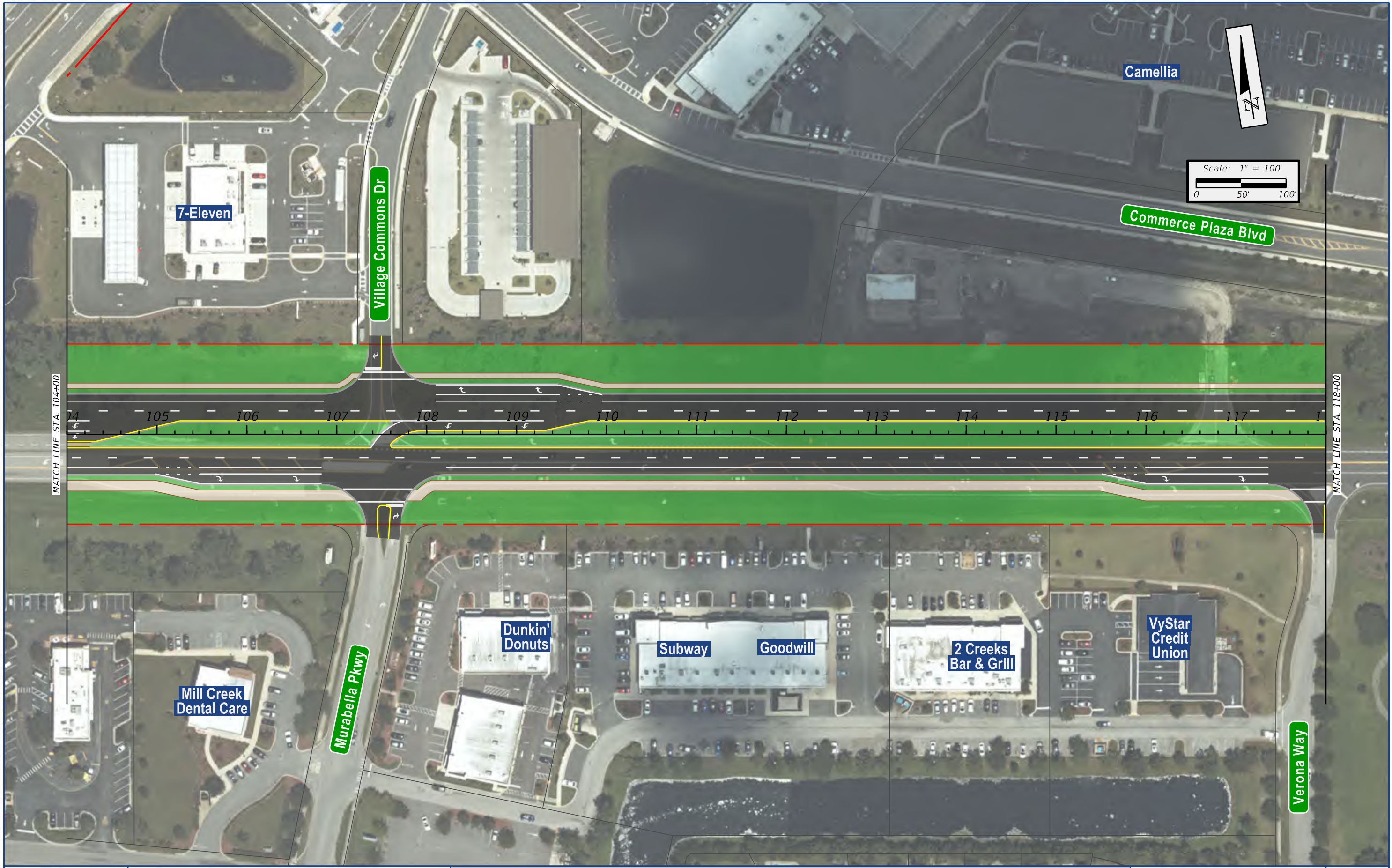
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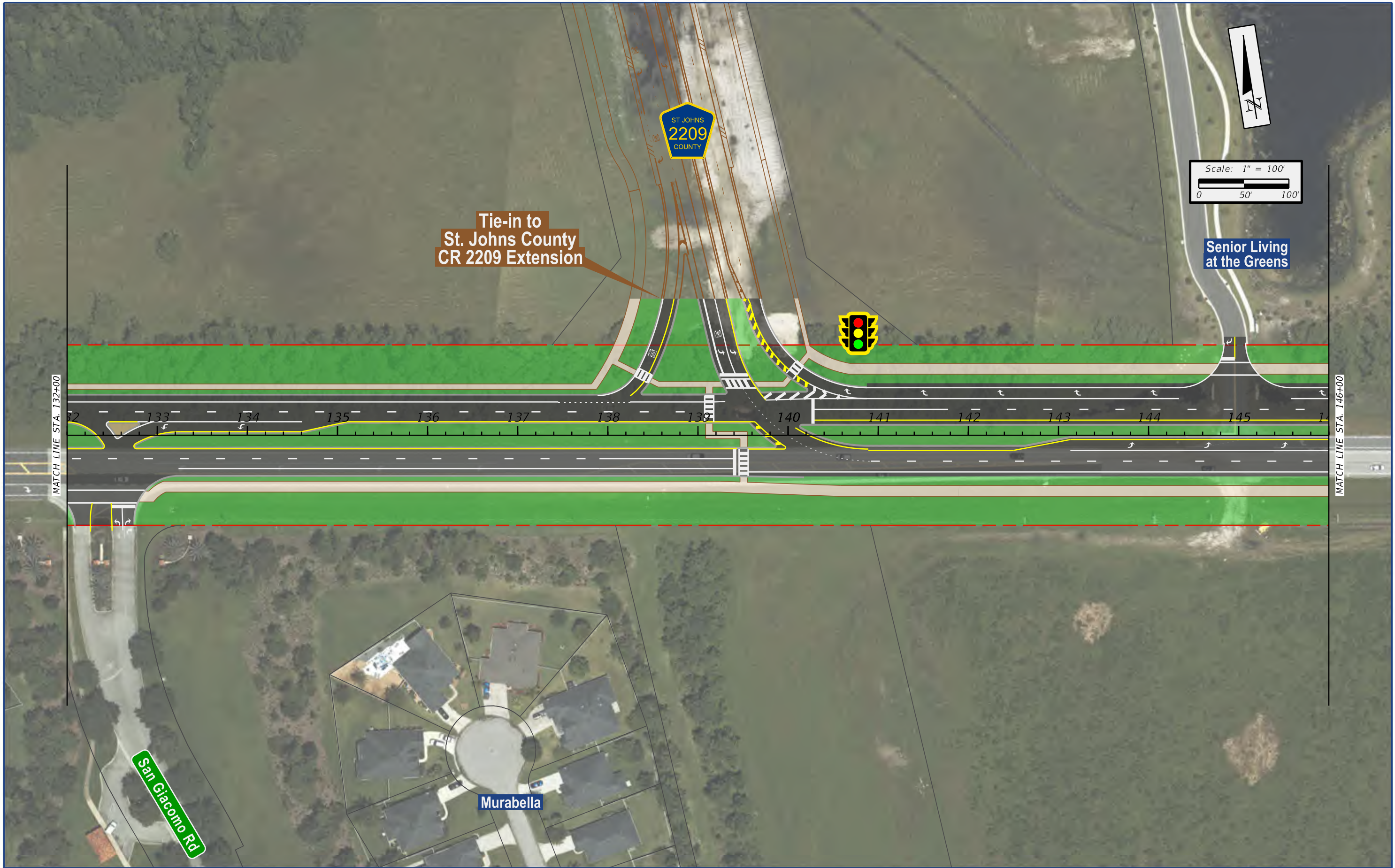
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise WallExisting Traffic SignalProposed Traffic Signal



Tie-in to
St. Johns County
CR 2209 Extension

Senior Living
at the Greens

Murabella

San Giacomo Rd



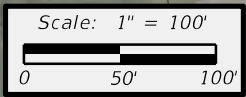
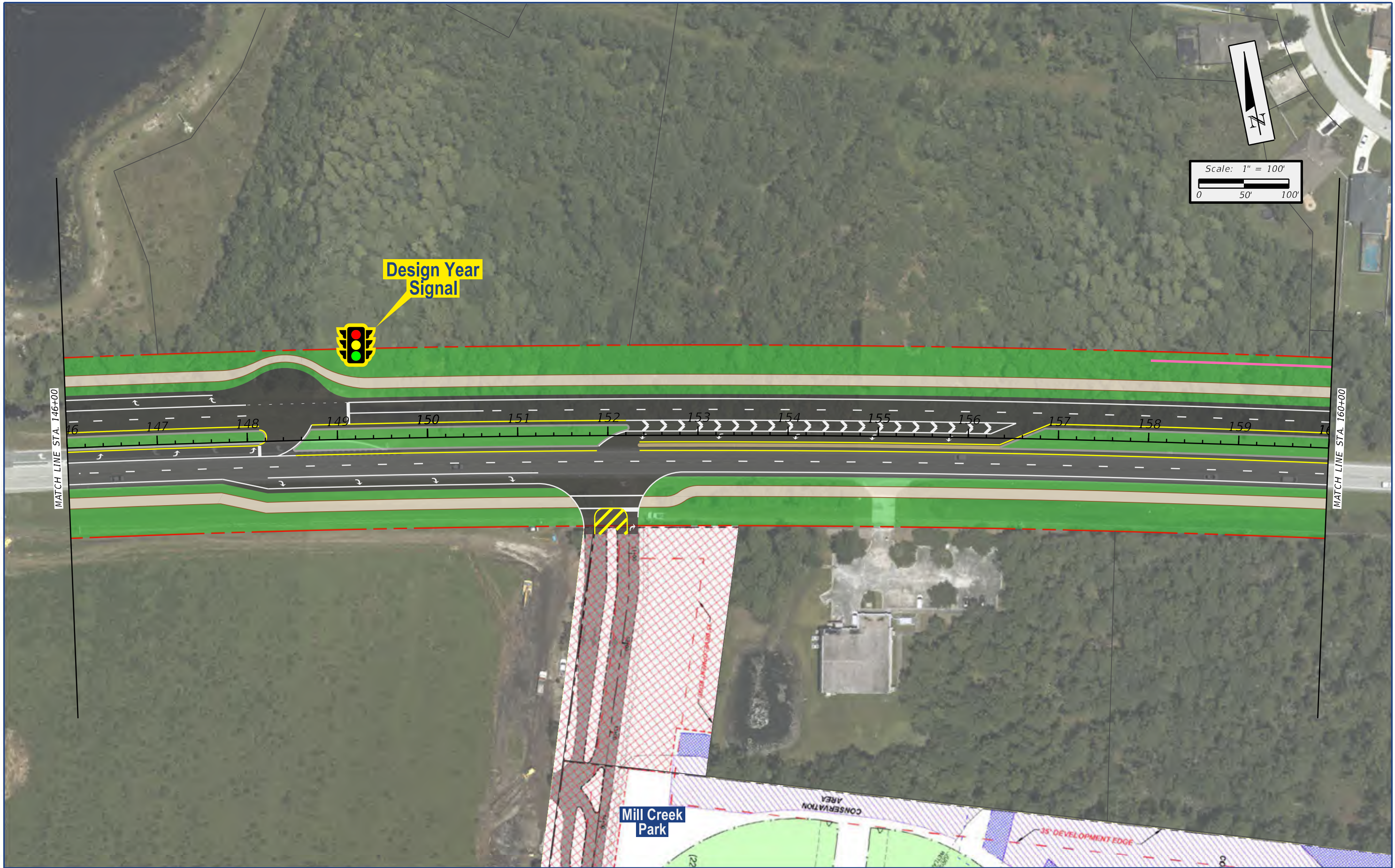
SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

- | | |
|-----------------------|----------------------------|
| Property Lines | Proposed Retaining Wall |
| Existing Right-of-Way | Proposed Shared Use Path |
| Proposed Right-of-Way | Proposed Sod |
| Proposed Roadway | Proposed Traffic Separator |
| Proposed Bridge | Preferred Pond |

- | |
|-------------------------|
| Potential Noise Wall |
| Existing Traffic Signal |
| Proposed Traffic Signal |

Appendix B:
Preferred Alternative
Plan Sheets

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Design Year
Signal

MATCH LINE STA. 146+00

MATCH LINE STA. 160+00

Mill Creek
Park

CONSERVATION
AREA

35' DEVELOPMENT EDGE



SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

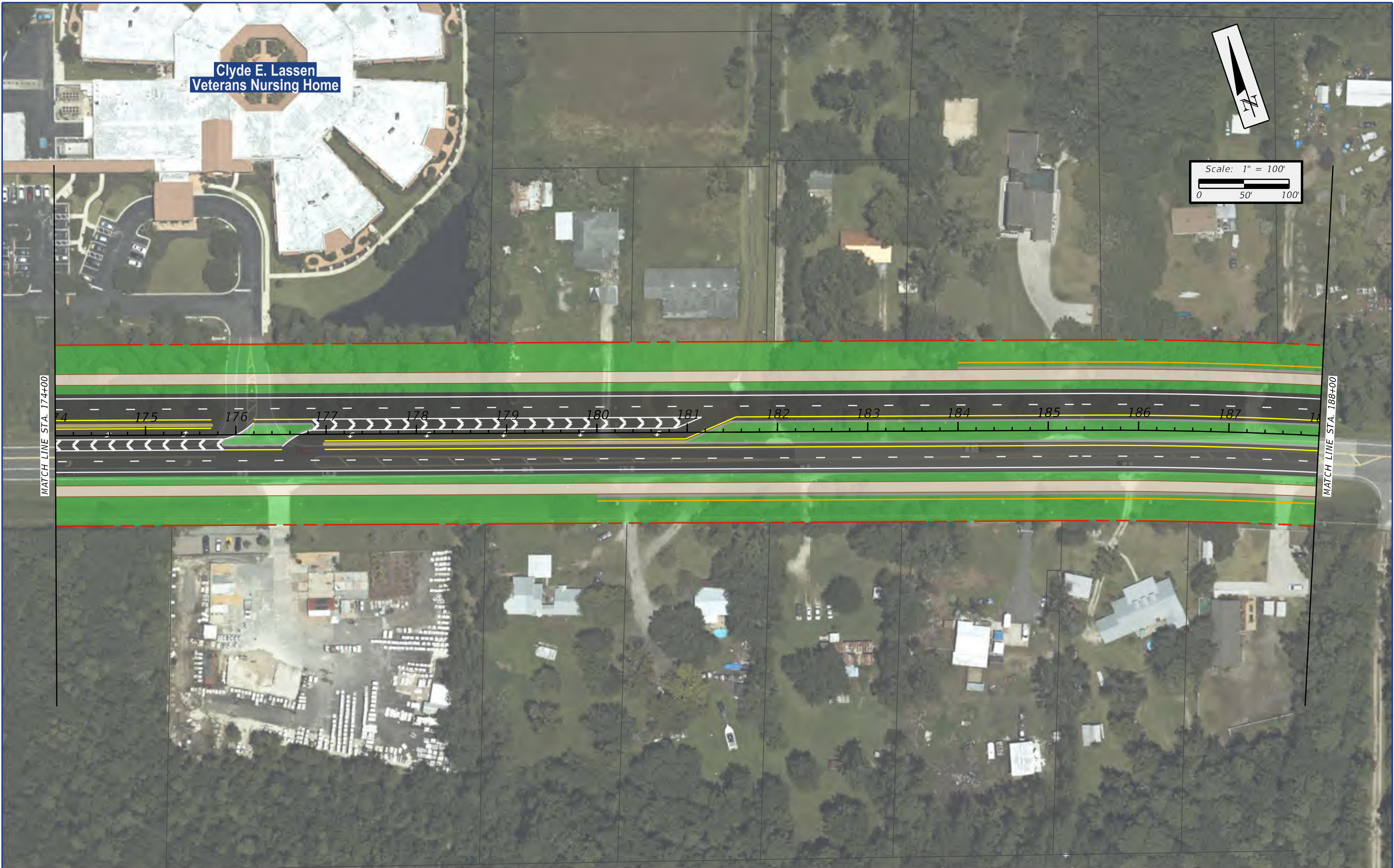
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|-----------------------|----------------------------|
| Property Lines | Proposed Retaining Wall |
| Existing Right-of-Way | Proposed Shared Use Path |
| Proposed Right-of-Way | Proposed Sod |
| Proposed Roadway | Proposed Traffic Separator |
| Proposed Bridge | Preferred Pond |

- | |
|-------------------------|
| Potential Noise Wall |
| Existing Traffic Signal |
| Proposed Traffic Signal |

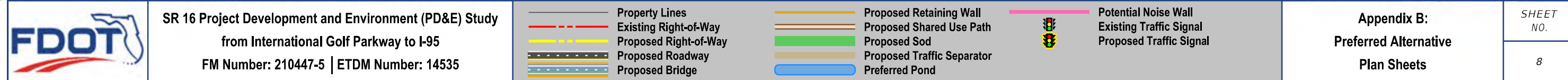
Appendix B:
Preferred Alternative
Plan Sheets

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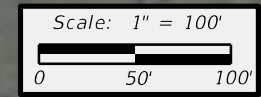
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond	Potential Noise Wall Existing Traffic Signal Proposed Traffic Signal	Appendix B: Preferred Alternative Plan Sheets	SHEET NO.
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MATCH LINE STA. 202+00

MATCH LINE STA. 216+00

Proposed R/W for Preferred Pond 2C

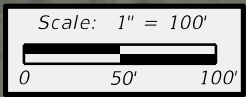


SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

	Property Lines		Proposed Retaining Wall		Potential Noise Wall
	Existing Right-of-Way		Proposed Shared Use Path		Existing Traffic Signal
	Proposed Right-of-Way		Proposed Sod		Proposed Traffic Signal
	Proposed Roadway		Proposed Traffic Separator		
	Proposed Bridge		Preferred Pond		

Appendix B:
Preferred Alternative
Plan Sheets

SHEET
NO.
9



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\$TIMES\$
\$DATES\$
\$USER\$



SR 16 Project Development and Environment (PD&E) Study
from International Golf Parkway to I-95
FM Number: 210447-5 | ETDM Number: 14535

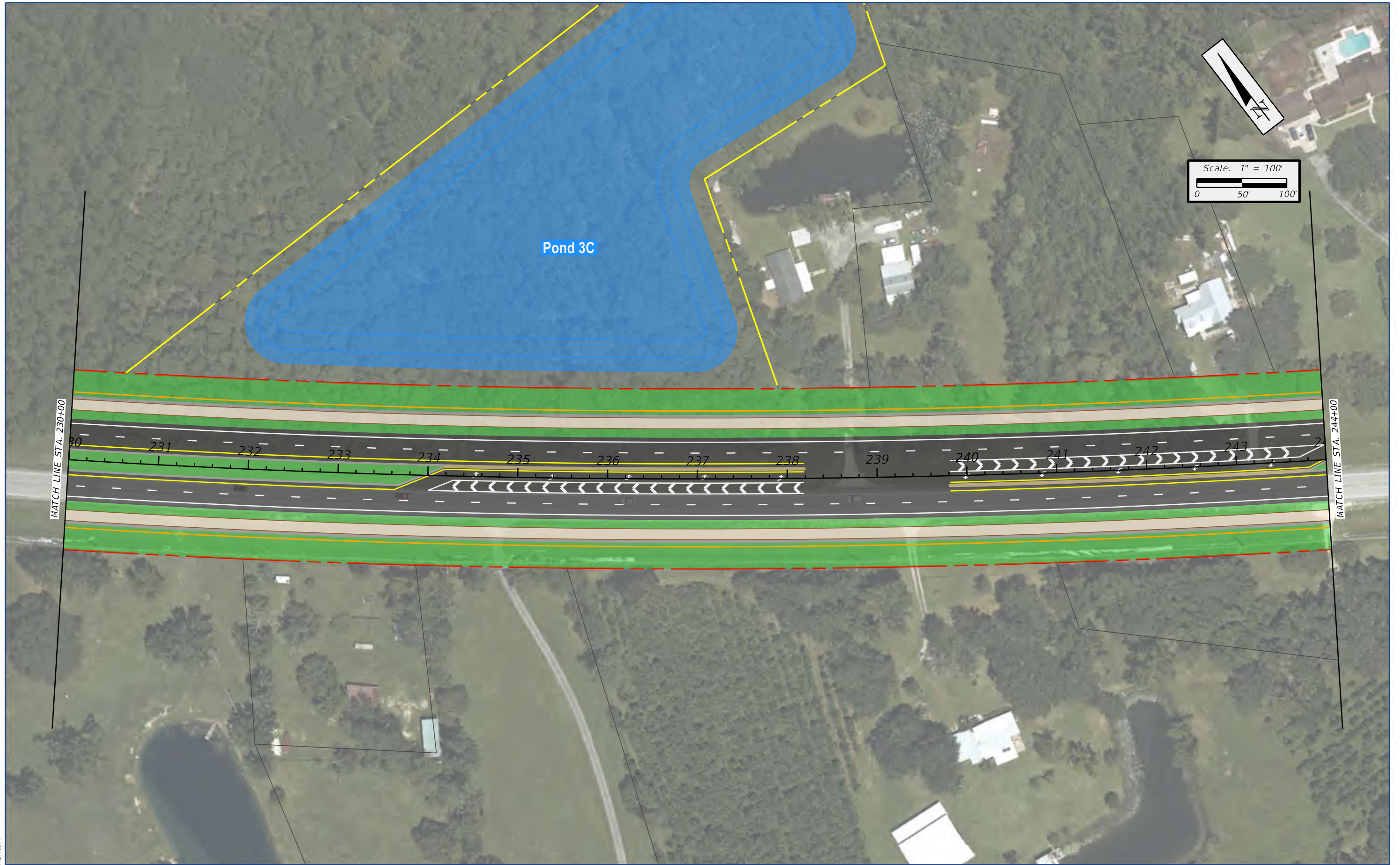
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|-----------------------|----------------------------|
| Property Lines | Proposed Retaining Wall |
| Existing Right-of-Way | Proposed Shared Use Path |
| Proposed Right-of-Way | Proposed Sod |
| Proposed Roadway | Proposed Traffic Separator |
| Proposed Bridge | Preferred Pond |

- | |
|-------------------------|
| Potential Noise Wall |
| Existing Traffic Signal |
| Proposed Traffic Signal |

Appendix B:
Preferred Alternative
Plan Sheets

SHEET
NO.
10

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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise Wall

Existing Traffic Signal

Proposed Traffic Signal

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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise Wall

Existing Traffic Signal

Proposed Traffic Signal

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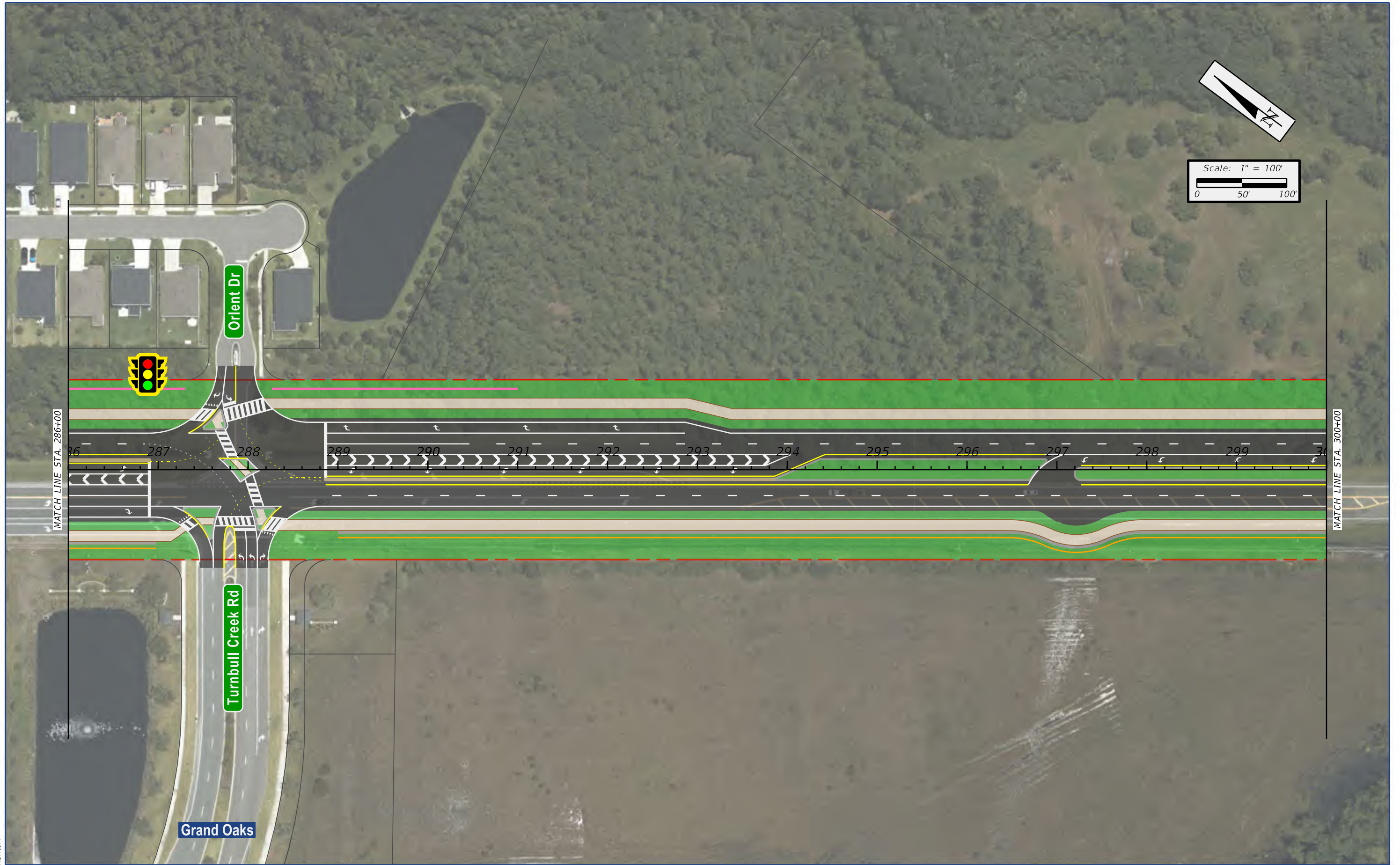


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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge	Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond	Potential Noise Wall Existing Traffic Signal Proposed Traffic Signal	Appendix B: Preferred Alternative Plan Sheets	SHEET NO.
						14

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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise WallExisting Traffic SignalProposed Traffic Signal

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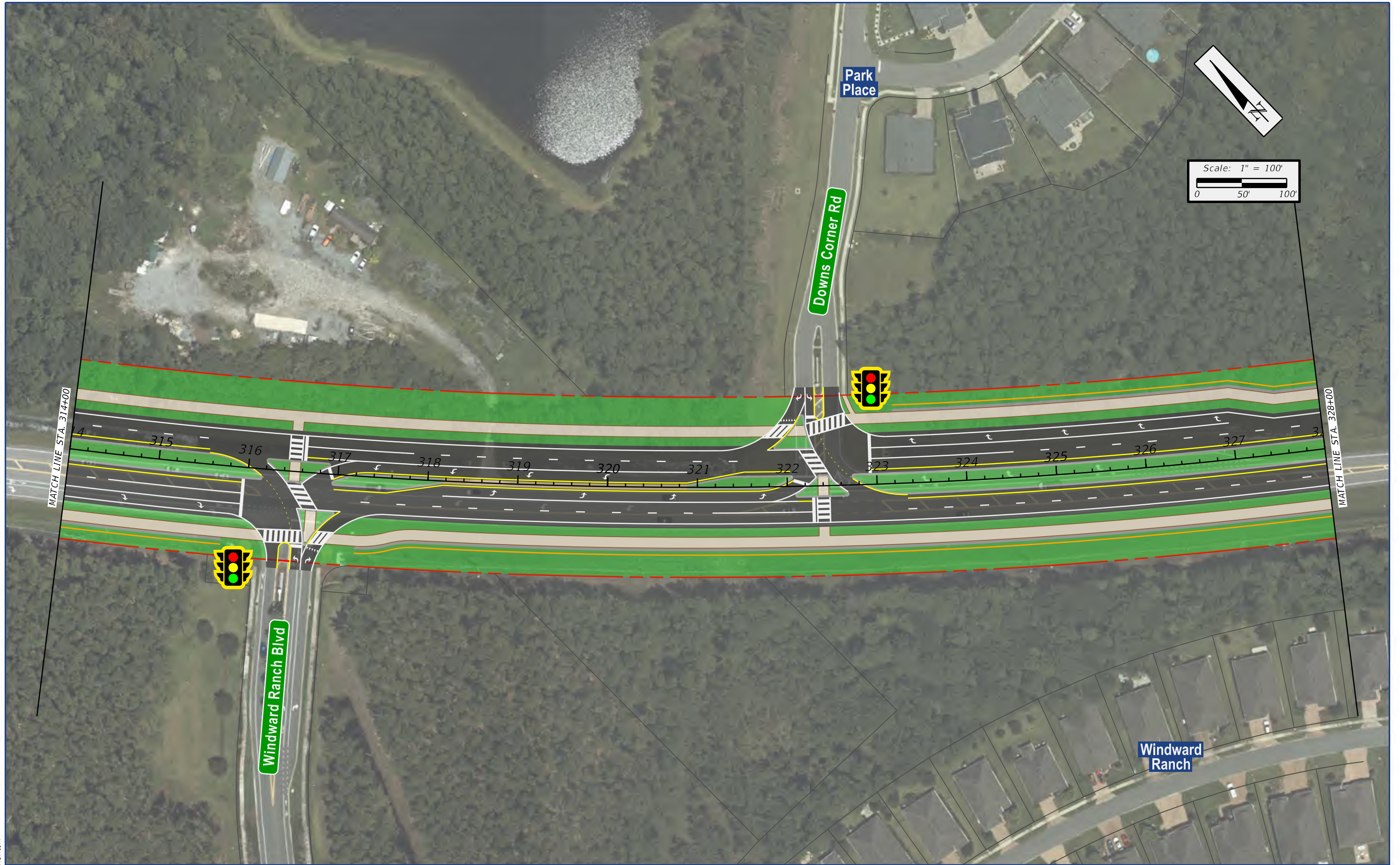
	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise Wall

Existing Traffic Signal

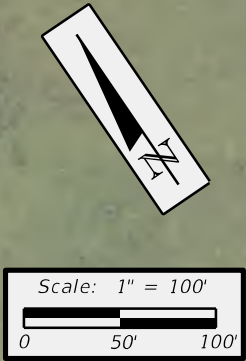
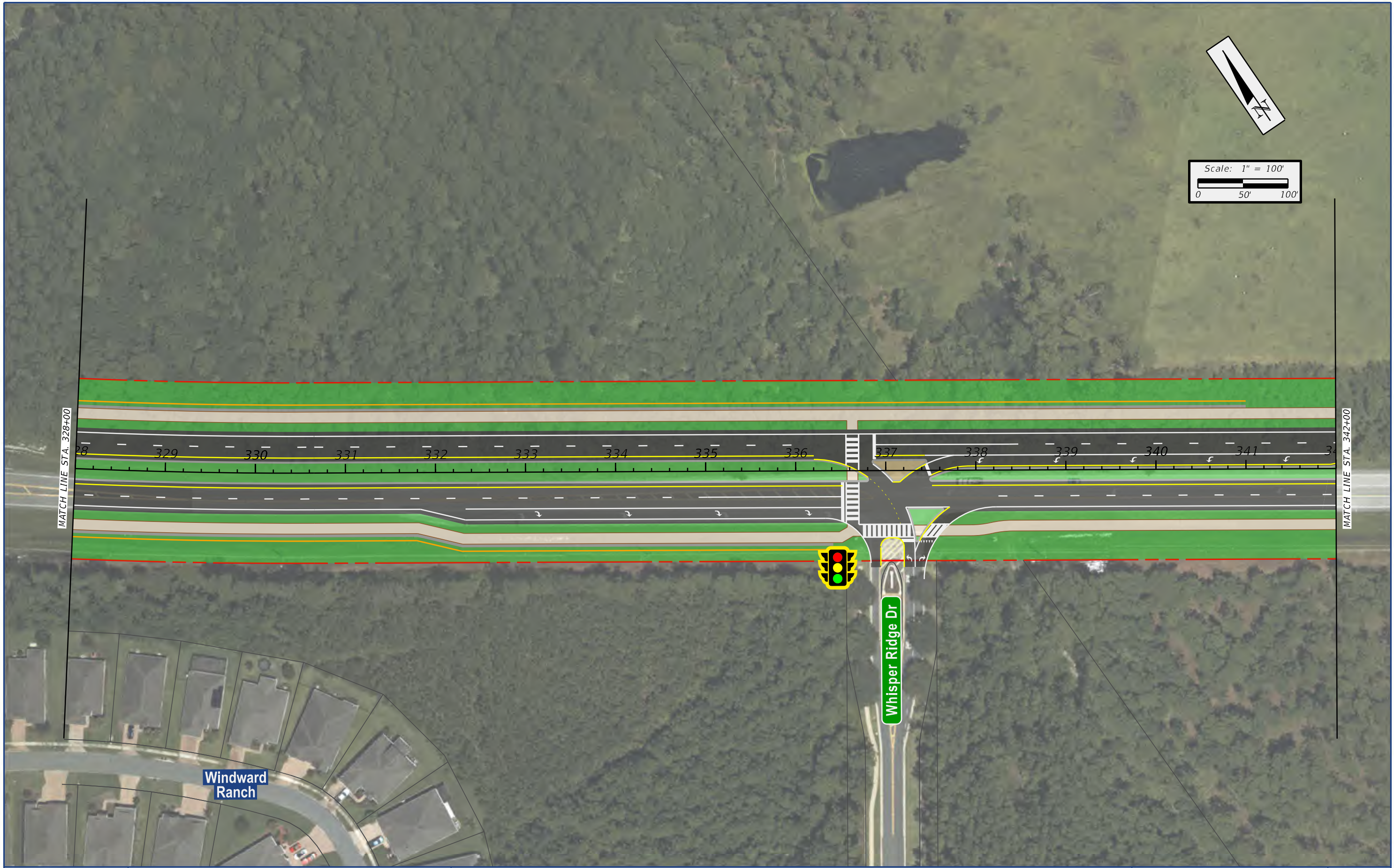
Proposed Traffic Signal

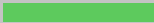
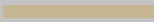
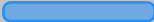
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	 Property Lines  Existing Right-of-Way  Proposed Right-of-Way  Proposed Roadway  Proposed Bridge	 Proposed Retaining Wall  Proposed Shared Use Path  Proposed Sod  Proposed Traffic Separator  Preferred Pond	 Potential Noise Wall  Existing Traffic Signal  Proposed Traffic Signal	Appendix B: Preferred Alternative Plan Sheets	<i>SHEET NO.</i>
						18

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	SR 16 Project Development and Environment (PD&E) Study from International Golf Parkway to I-95 FM Number: 210447-5 ETDM Number: 14535	Property Lines Existing Right-of-Way Proposed Right-of-Way Proposed Roadway Proposed Bridge Proposed Retaining Wall Proposed Shared Use Path Proposed Sod Proposed Traffic Separator Preferred Pond
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Potential Noise WallExisting Traffic SignalProposed Traffic Signal











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\$DATES\$
\$USERS\$

Appendix C:

Typical Section Package



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

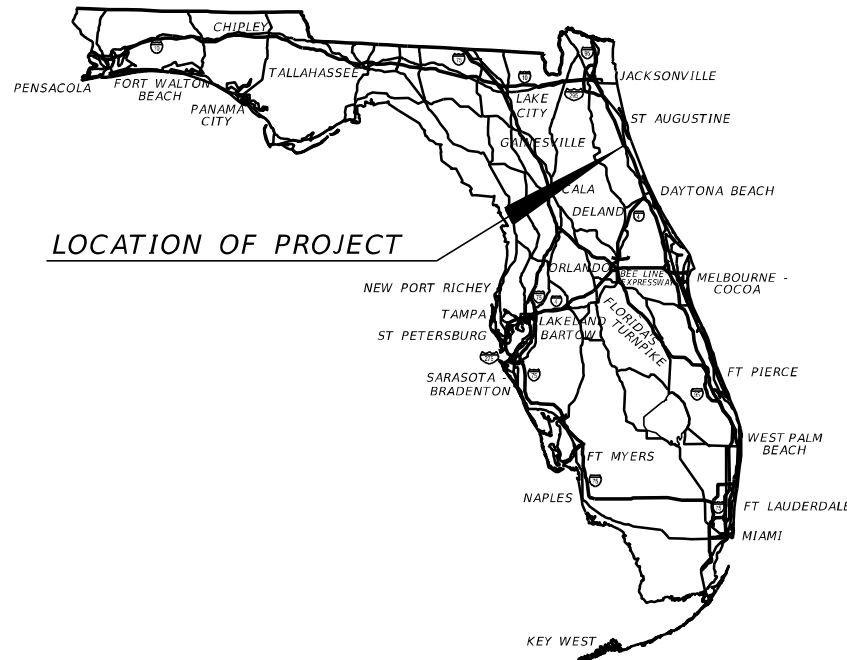
TYPICAL SECTION PACKAGE

FINANCIAL PROJECT ID 210447-5-52-01

(FEDERAL FUNDS)

ST. JOHNS COUNTY (78060)

STATE ROAD NO. 16
ADD LANES AND RECONSTRUCT SR 16
FROM CR 2209
TO SR 9 (I-95)



FDOT DISTRICT DESIGN ENGINEER

Kathryn D Thomas

Digitally signed by: Kathryn D Thomas
DN: CN = Kathryn D Thomas C = US O = FLORIDA DEPARTMENT OF TRANSPORTATION
Date: 2025.06.02 13:53:38 -04'00'

CONCURRING WITH:
TYPICAL SECTION ELEMENTS
TARGET SPEED
DESIGN & POSTED SPEEDS

FDOT DISTRICT TRAFFIC OPERATIONS ENGINEER

James Hannigan
2025.05.13
10:50:26 -04'00'

CONCURRING WITH:
TARGET SPEED
DESIGN & POSTED SPEEDS

PROJECT LOCATION URL: <https://tinyurl.com/4p2wsm48>

PROJECT LIMITS: BEGIN MP 10.280 - END MP 15.210

EXCEPTIONS: NONE

BRIDGE LIMITS: BR No. 1 AND 2: MP 11.716 - MP 11.745

RAILROAD CROSSING: NONE

FDOT DISTRICT INTERMODAL SYSTEMS DEVELOPMENT MANAGER

David J Tyler

Digitally signed by David J Tyler
Date: 2025.05.28
13:48:56 -04'00'

CONCURRING WITH:
CONTEXT CLASSIFICATION
TARGET SPEED

FDOT DISTRICT STRUCTURES DESIGN ENGINEER

Pete Winkler

Digitally signed by: Pete Winkler
DN: CN = Pete Winkler email = peter.winkler@dot.state.fl.us C = US O = FDOT OU =
Date: 2025.05.29 13:57:17 -04'00'

CONCURRING WITH:
TYPICAL SECTION ELEMENTS

FHWA TRANSPORTATION ENGINEER

CONCURRING WITH:
TYPICAL SECTION ELEMENTS

LOCAL TRANSPORTATION ENGINEER

CONCURRING WITH:
TYPICAL SECTION ELEMENTS

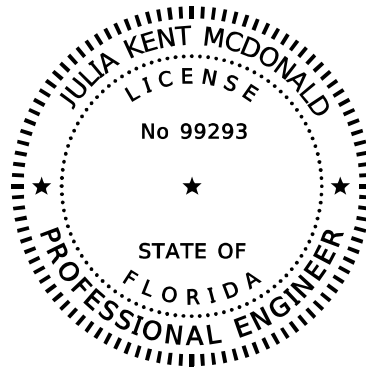
NOT USED

CONCURRING WITH:

NOT USED

CONCURRING WITH:

APPROVED BY:



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Julia Kent McDonald

Digitally signed by Julia Kent McDonald
Date: 2025.05.09 13:48:18 -04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

RS&H, INC.
10748 DEERWOOD PARK BLVD. SOUTH
JACKSONVILLE, FL 32256
JULIA KENT MCDONALD, P.E. NO. 99293

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

INDEX OF SHEETS

SHEET NO	SHEET DESCRIPTION
1	KEY SHEET
2-5	SR 16 TYPICAL SECTION NO. 1 - TYPICAL SECTION NO. 4

SHEET NO.

1

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
(X) C3R : SUBURBAN RES.	() C6 : URBAN CORE
() N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION

() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
(X) PRINCIPAL ARTERIAL	() LOCAL
() MINOR ARTERIAL	

HIGHWAY SYSTEM

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

ACCESS CLASSIFICATION

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

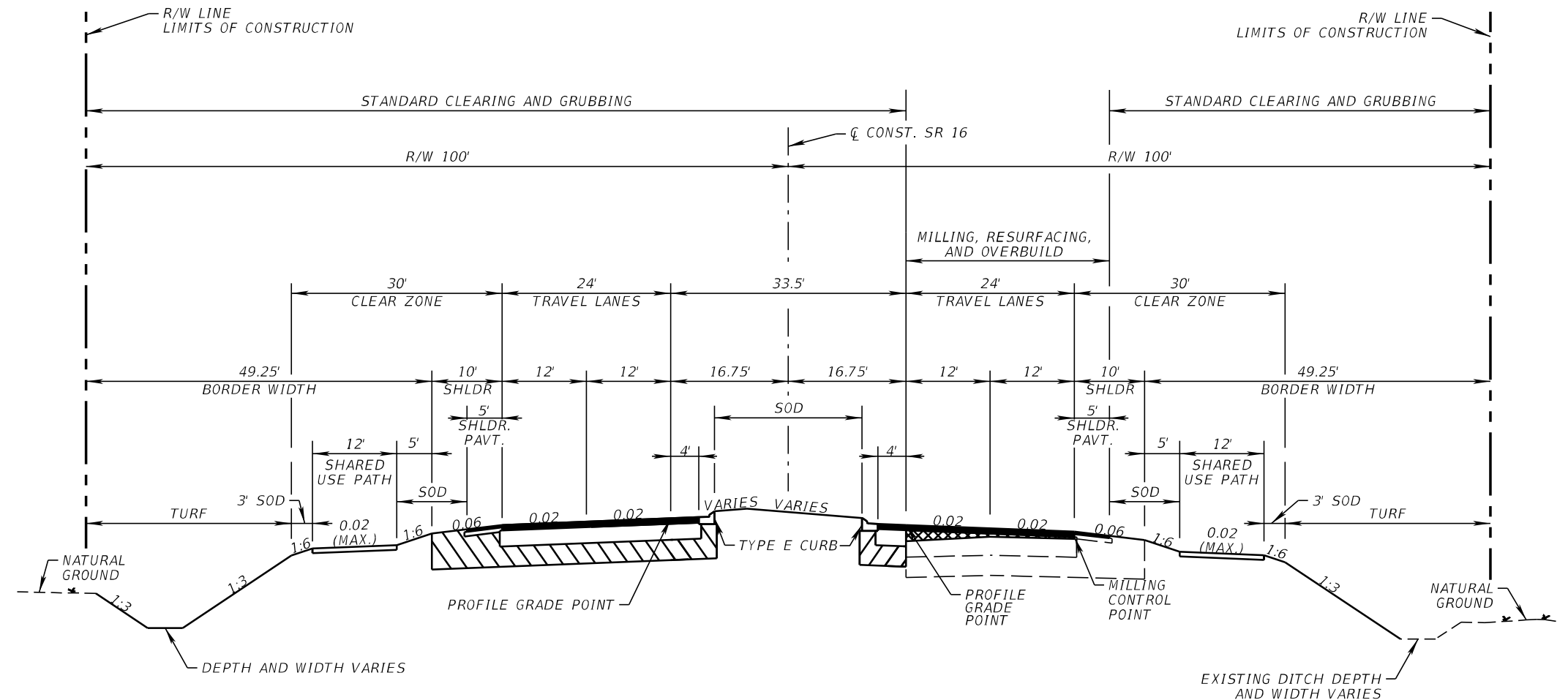
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

1. MINIMUM BASE CLEARANCE (FDM 210.10.3)
2. ROADSIDE SLOPE CRITERIA (FDM 215.2.6)

TYPICAL SECTION No. 1



SR 16
MP 10.280 TO MP 11.716
MP 11.745 TO MP 14.653

TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 21800
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 38900
K = 9% D = 57% T = 4% (24 HOUR)
DESIGN HOUR T = 2%
TARGET SPEED = 55 MPH
DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH

<i>FINANCIAL PROJECT ID</i>	<i>SHEET NO.</i>
<i>210447-5-52-01</i>	<i>2</i>

PROJECT CONTROLS

CONTEXT CLASSIFICATION

() C1 : NATURAL	() C3C : SUBURBAN COMM.
() C2 : RURAL	() C4 : URBAN GENERAL
() C2T : RURAL TOWN	() C5 : URBAN CENTER
(X) C3R : SUBURBAN RES.	() C6 : URBAN CORE
() N/A : L.A. FACILITY	

FUNCTIONAL CLASSIFICATION

() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
(X) PRINCIPAL ARTERIAL	() LOCAL
() MINOR ARTERIAL	

HIGHWAY SYSTEM

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

ACCESS CLASSIFICATION

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

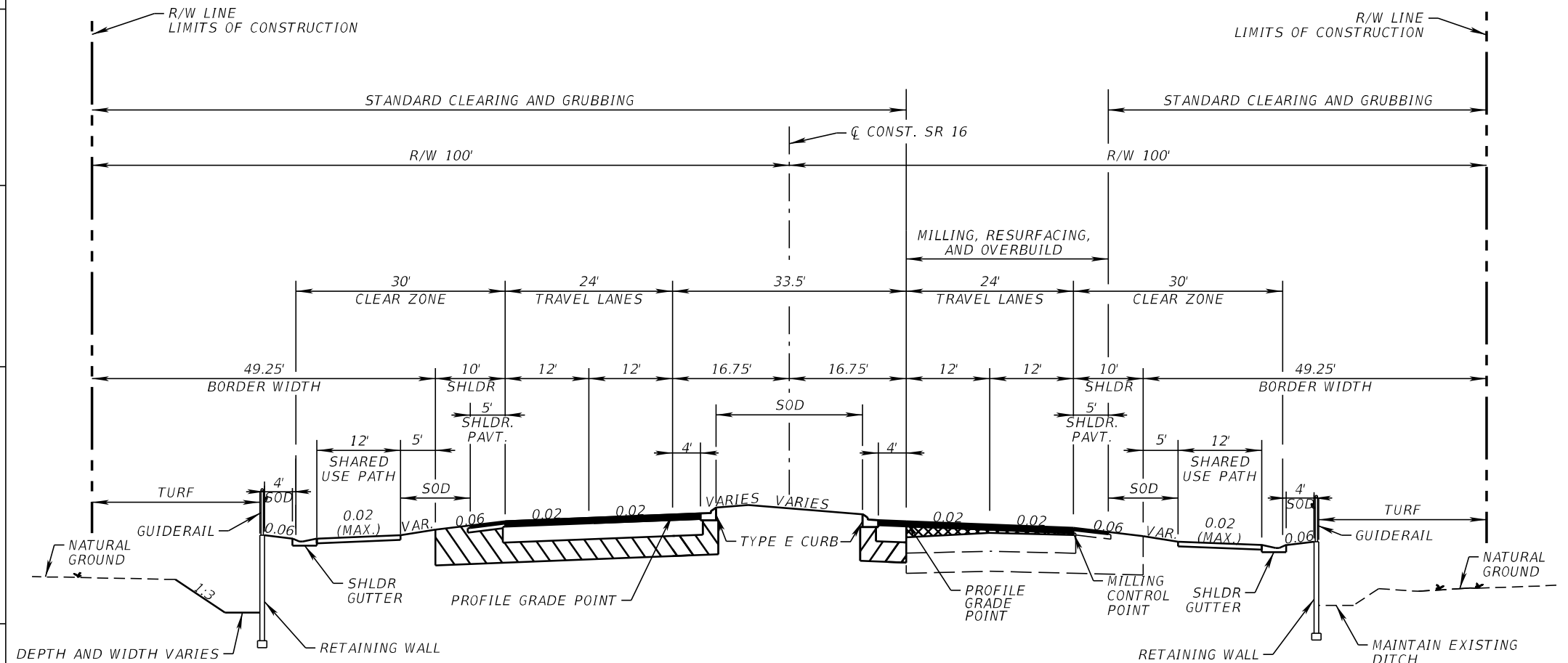
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

1. MINIMUM BASE CLEARANCE (FDM 210.10.3)
2. 10-FT MAINTENANCE AREA FOR RETAINING WALLS GREATER THAN 5 FT (1:10 OR FLATTER) (FDM 262.1)

TYPICAL SECTION No. 2



SR 16
MP 10.280 TO MP 11.716
MP 11.745 TO MP 14.653

TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 21800
ESTIMATED OPENING YEAR = 2030 AADT = 26000
ESTIMATED DESIGN YEAR = 2050 AADT = 38900
K = 9% D = 57% T = 4% (24 HOUR)
DESIGN HOUR T = 2%
TARGET SPEED = 55 MPH
DESIGN SPEED = 55 MPH
POSTED SPEED = 55 MPH

<i>FINANCIAL PROJECT ID</i>	<i>SHEET NO.</i>
210447-5-52-01	3

PROJECT CONTROLS

CONTEXT CLASSIFICATION

()	C1 : NATURAL	(X)	C3C : SUBURBAN COMM.
()	C2 : RURAL	()	C4 : URBAN GENERAL
()	C2T : RURAL TOWN	()	C5 : URBAN CENTER
()	C3R : SUBURBAN RES.	()	C6 : URBAN CORE
()	N/A : L.A. FACILITY		

FUNCTIONAL CLASSIFICATION

() INTERSTATE	() MAJOR COLLECTOR
() FREEWAY/EXPWY.	() MINOR COLLECTOR
(X) PRINCIPAL ARTERIAL	() LOCAL
() MINOR ARTERIAL	

HIGHWAY SYSTEM

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

ACCESS CLASSIFICATION

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

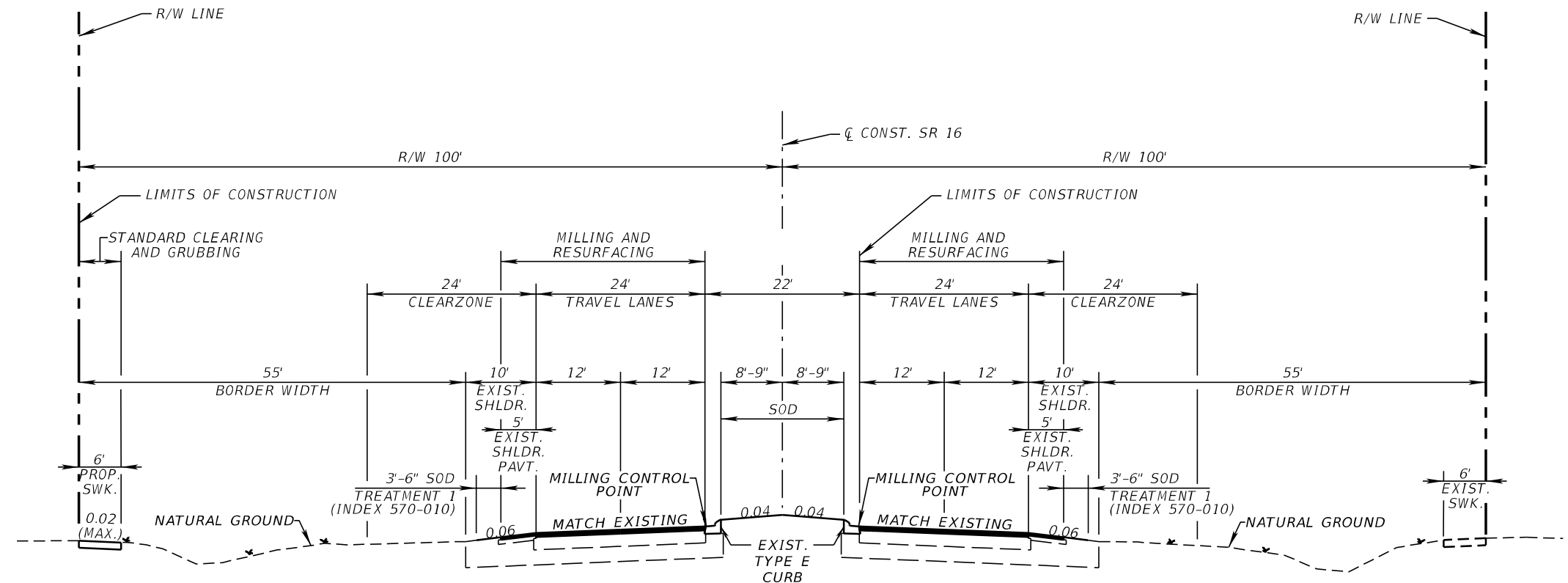
CRITERIA

(X) NEW CONSTRUCTION / RECONSTRUCTION
() RESURFACING (LA FACILITIES)
() RRR (ARTERIALS & COLLECTORS)

POTENTIAL EXCEPTIONS AND VARIATIONS
RELATED TO TYPICAL SECTION:

N/A

TYPICAL SECTION No. 3

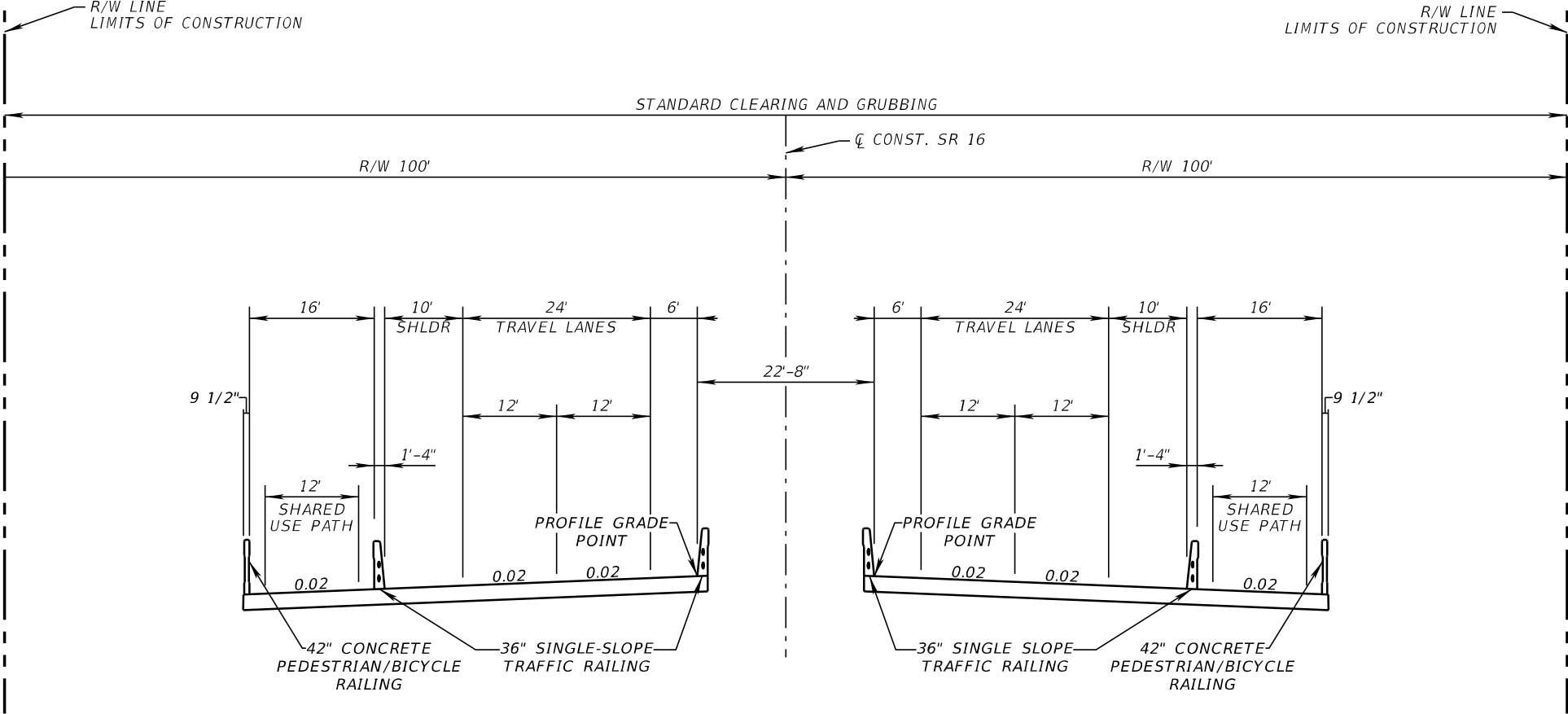


SR 16
MP 14.653 TO MP 15.210

TRAFFIC DATA

CURRENT YEAR = 2023 AADT = 21800
ESTIMATED OPENING YEAR = 2030 AADT = 26400
ESTIMATED DESIGN YEAR = 2050 AADT = 39500
K = 9% D = 57% T = 4% (24 HOUR)
DESIGN HOUR T = 2%
TARGET SPEED = 45 MPH
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH

<i>FINANCIAL PROJECT ID</i>	<i>SHEET NO.</i>
<i>210447-5-52-01</i>	<i>4</i>

PROJECT CONTROLS		TYPICAL SECTION No. 4					
CONTEXT CLASSIFICATION							
FUNCTIONAL CLASSIFICATION							
HIGHWAY SYSTEM							
ACCESS CLASSIFICATION							
CRITERIA							
POTENTIAL EXCEPTIONS AND VARIATIONS RELATED TO TYPICAL SECTION:		BRIDGE NO. 1 AND NO. 2 OVER TURNBULL CREEK MP 11.716 TO MP 11.745					
		TRAFFIC DATA					
		CURRENT YEAR = 2023 AADT = 21800 ESTIMATED OPENING YEAR = 2030 AADT = 26000 ESTIMATED DESIGN YEAR = 2050 AADT = 38900 K = 9% D = 57% T = 4% (24 HOUR) DESIGN HOUR T = 2% TARGET SPEED = 55 MPH DESIGN SPEED = 55 MPH POSTED SPEED = 55 MPH					
		<table><tr><td>FINANCIAL PROJECT ID</td><td>SHEET NO.</td></tr><tr><td>210447-5-52-01</td><td>5</td></tr></table>		FINANCIAL PROJECT ID	SHEET NO.	210447-5-52-01	5
FINANCIAL PROJECT ID	SHEET NO.						
210447-5-52-01	5						

Appendix D:

Long Range Estimates



Date: 3/4/2025 11:17:49 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 210447-5-52-01

Letting Date: 01/2099

Description: SR 16 FROM IGP TO I-95 PD&E STUDY

District: 02 **County:** 78 ST. JOHNS

Market Area: 05 **Units:** English

Contract Class: **Lump Sum Project:** N

Design/Build: N **Project Length:** 5.900 MI

Project Manager: Keith Bogart

Version 14 Project Grand Total

\$188,678,060.82

Description: (IGP to 95) Rural Typical - With Shoulder Gutter and Wall in High Fill Areas - PD&E

Sequence: 1 RSU - Resurfacing, Undivided

Net Length: 4.386 MI
23,156 LF

Description: EB Lanes - Resurface and Overbuild on Existing

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	165
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	61,749.25 SY	\$4.37	\$269,844.22
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	5,094.31 TN	\$205.00	\$1,044,333.55
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	2,469.97 TN	\$288.17	\$711,771.25

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	12,387.87 TN	\$205.00	\$2,539,513.35

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	592.00 EA	\$4.39	\$2,598.88

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	8.77 GM	\$1,274.90	\$11,180.87
710-11-231	PAINTED PAVT MARK,STD,YELLOW,SKIP,6"	4.39 GM	\$1,645.53	\$7,223.88
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	8.77 GM	\$5,314.41	\$46,607.38
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	8.77 GM	\$5,316.09	\$46,622.11
711-16-231	THERMOPLASTIC, STD-OTH, YELLOW, SKIP, 6"	4.39 GM	\$1,645.53	\$7,223.88
Roadway Component Total				\$4,686,919.36

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 / 2.67
Paved Outside Shoulder Width L/R	0.00 / 5.00
Structural Spread Rate	165
Friction Course Spread Rate	0
Total Width (T) / 8" Overlap (O)	T
Rumble Strips i/c 1/2 No. of Sides	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
327-70-1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	12,864.43 SY	\$3.79	\$48,756.19
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,061.32 TN	\$205.00	\$217,570.60
570-1-1	PERFORMANCE TURF	6,869.60 SY	\$0.95	\$6,526.12

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-11	FLOATING TURBIDITY BARRIER	438.56 LF	\$18.43	\$8,082.66
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	438.56 LF	\$9.63	\$4,223.33
104-18	INLET PROTECTION SYSTEM	9.00 EA	\$150.43	\$1,353.87
107-1	LITTER REMOVAL	10.61 AC	\$61.61	\$653.68
107-2	MOWING	10.61 AC	\$73.49	\$779.73
Shoulder Component Total				\$287,946.18

Sequence 1 Total	\$4,974,865.54
-------------------------	-----------------------

Sequence: 2 NDS - New, Divided, Suburban (Urban In/Rural Out)
Description: WB Lanes - Full Depth Plus 4 ft for EB Inside Shoulder

Net Length: 4.386 MI
23,156 LF

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	100.00 / 100.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	4.386
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	104.00
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	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	106.33 AC	\$49,426.17	\$5,255,484.66
120-6	EMBANKMENT	251,145.09 CY	\$34.53	\$8,672,039.96

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
120-1	REGULAR EXCAVATION	34,310.74 CY	\$55.55	\$1,905,961.61

Earthwork Component Total \$15,833,486.22

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	28.00 / 4.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	121,337.27 SY	\$14.98	\$1,817,632.30
285-710	OPTIONAL BASE,BASE GROUP 10	85,728.54 SY	\$51.48	\$4,413,305.24
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	20,377.25 TN	\$205.00	\$4,177,336.25
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	3,293.29 TN	\$288.17	\$949,027.38

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-6	SHOULDER GUTTER- CONCRETE	24,972.00 LF	\$30.00	\$749,160.00

Pavement Marking Subcomponent

Description	Value
-------------	-------

Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	1
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	0

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	592.00 EA	\$4.39	\$2,598.88
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	4.39 GM	\$1,274.90	\$5,596.81
711-15-101	THERMOPLASTIC, STD-OP, WHITE, SOLID, 6"	4.39 GM	\$5,314.41	\$23,330.26
711-15-201	THERMOPLASTIC, STD- OP,YELLOW, SOLID, 6"	4.39 GM	\$5,316.09	\$23,337.64
Roadway Component Total				\$12,161,324.76

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	10.00 / 0.00
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 0.00
Paved Outside Shoulder Width L/R	5.00 / 0.00
Structural Spread Rate	165
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
285-704	OPTIONAL BASE,BASE GROUP 04	13,713.48 SY	\$45.20	\$619,849.30
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,061.32 TN	\$205.00	\$217,570.60
546-72-1	GROUND-IN RUMBLE STRIPS, 16"	8.77 GM	\$1,767.50	\$15,500.98
570-1-1	PERFORMANCE TURF	12,864.43 SY	\$0.95	\$12,221.21

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
534-72-101	SOUND/NOISE BARRIER-INC FOUNDATION, PERM	68,860.00 SF	\$49.60	\$3,415,456.00
	Comment: 3130 LF of 22' Noise Wall			
570-1-1	PERFORMANCE TURF	171,750.00 SY	\$0.95	\$163,162.50

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	60,205.52 LF	\$3.24	\$195,065.88
104-11	FLOATING TURBIDITY BARRIER	1,096.40 LF	\$18.43	\$20,206.65
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	1,096.40 LF	\$9.63	\$10,558.33
104-15	SOIL TRACKING PREVENTION DEVICE	5.00 EA	\$4,000.00	\$20,000.00
104-18	INLET PROTECTION SYSTEM	36.00 EA	\$150.43	\$5,415.48
107-1	LITTER REMOVAL	78.63 AC	\$61.61	\$4,844.39

107-2	MOWING	78.63 AC	\$73.49	\$5,778.52
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Shoulder Component Total				\$4,705,629.84
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MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	25.50
Performance Turf Width	21.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	6,714.00 LF	\$76.64	\$514,560.96
570-1-2	PERFORMANCE TURF, SOD	54,030.59 SY	\$4.96	\$267,991.73

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	31,882.00 LF	\$45.20	\$1,441,066.40

Median Component Total				\$2,223,619.09
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DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	11,608.00 LF	\$179.67	\$2,085,609.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	1,040.00 LF	\$267.73	\$278,439.20
570-1-1	PERFORMANCE TURF	1,333.22 SY	\$0.95	\$1,266.56

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	158.00 EA	\$7,911.36	\$1,249,994.88
425-1-451	INLETS, CURB, TYPE J-5, <10'	44.00 EA	\$11,481.26	\$505,175.44
425-1-521	INLETS, DT BOT, TYPE C, <10'	22.00 EA	\$6,096.63	\$134,125.86
425-2-41	MANHOLES, P-7, <10'	22.00 EA	\$6,697.02	\$147,334.44
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	21,928.00 LF	\$420.19	\$9,213,926.32

Drainage Component Total				\$13,615,872.06
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SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-111	SINGLE COL GRND SIGN AS, F&I GM, <12 SF	106.00 EA	\$530.23	\$56,204.38
700-1-112	SINGLE COL GRND SIGN AS, F&I GM, 12-20	9.00 EA	\$1,906.68	\$17,160.12
700-2-114	MULTI- COLUMN SIGN, F&I GM, 30.1-50 SF	9.00 EA	\$10,833.75	\$97,503.75
700-2-115	MULTI- COLUMN SIGN, F&I GM, 50.1-100 SF	9.00 EA	\$16,317.54	\$146,857.86

SIGNALIZATIONS COMPONENT**Signalization 1****Description****Value**

Type

4 Lane Mast Arm

Multiplier

1

Description

Francis 4 leg intersection (not
including u-turn)**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 2**Description****Value**

Type

4 Lane Mast Arm

Multiplier

1

Description

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20

649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 3

Description

Type

Multiplier

Description

Value

6 Lane Mast Arm

1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00 LF	\$16.88	\$11,816.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00 LF	\$39.64	\$11,892.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$1,427.03	\$31,394.66
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	\$4,682.71	\$4,682.71
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	\$111,038.70	\$666,232.20
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	\$1,839.19	\$36,783.80
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00 EA	\$667.18	\$13,343.60
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00 AS	\$1,877.56	\$37,551.20
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 4

Description

Type

Multiplier

Description

Value

4 Lane Mast Arm

1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 5

Description

Type

Multiplier

Description

Value

6 Lane Mast Arm

1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00 LF	\$16.88	\$11,816.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00 LF	\$39.64	\$11,892.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$1,427.03	\$31,394.66
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	\$4,682.71	\$4,682.71
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	\$111,038.70	\$666,232.20
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	\$1,839.19	\$36,783.80
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00 EA	\$667.18	\$13,343.60
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00 AS	\$1,877.56	\$37,551.20
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36

670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 6

Description

Type

Multiplier

Description

Value

4 Lane Mast Arm

1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 7

Description

Type

Multiplier

Description

Value

4 Lane Mast Arm

1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96

650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08
Signalizations Component Total				\$4,194,461.65

LIGHTING COMPONENT

Conventional Lighting Subcomponent

Description				Value
Spacing				MIN
Pay Items				
Pay item	Description	Quantity	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	23,155.97 LF	\$16.88	\$390,872.77
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	4,596.11 LF	\$39.64	\$182,189.80
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	154.00 EA	\$1,427.03	\$219,762.62
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	84,571.91 LF	\$4.05	\$342,516.24
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	154.00 EA	\$9,544.29	\$1,469,820.66
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	154.00 EA	\$1,200.00	\$184,800.00
Subcomponent Total				\$2,789,962.09
Lighting Component Total				\$2,789,962.09

BRIDGES COMPONENT

Bridge 780064

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	150.00
Width (LF)	59.50
Type	Low Level
Cost Factor	2.50
Structure No.	
Removal of Existing Structures area	4,652.00
Default Cost per SF	\$131.20
Factored Cost per SF	\$328.00
Final Cost per SF	\$342.63
Basic Bridge Cost	\$2,927,400.00
Description	

Bridge Pay Items

Pay item	Description	Quantity	Unit Price	Extended Amount
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110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	4,652.00 SF	\$51.67	\$240,368.84
400-2-10	CONC CLASS II, APPROACH SLABS	132.22 CY	\$735.46	\$97,242.52
415-1-9	REINF STEEL- APPROACH SLABS	23,138.50 LB	\$1.44	\$33,319.44
Bridge 780064 Total				\$3,298,330.80

Bridge 780064

Description	Value
Estimate Type	SF Estimate
Primary Estimate	YES
Length (LF)	150.00
Width (LF)	59.50
Type	Low Level
Cost Factor	2.50
Structure No.	
Removal of Existing Structures area	0.00
Default Cost per SF	\$131.20
Factored Cost per SF	\$328.00
Final Cost per SF	\$342.63
Basic Bridge Cost	\$2,927,400.00
Description	WB BRIDGE OVER TURNBULL CREEK

Bridge Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
400-2-10	CONC CLASS II, APPROACH SLABS	132.22 CY	\$735.46	\$97,242.52
415-1-9	REINF STEEL- APPROACH SLABS	23,138.50 LB	\$1.44	\$33,319.44
Bridge 780064 Total				\$3,057,961.96
Bridges Component Total				\$6,356,292.76

RETAINING WALLS COMPONENT

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	153,130.00 SF	\$45.62	\$6,985,790.60

Retaining Wall 1

Description	Value
Length	1.00
Begin height	1.00
End Height	1.00
Multiplier	1

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
548-12	RET WALL SYSTEM, PERM, EX BARRIER	1.00 SF	\$45.62	\$45.62
Retaining Walls Component Total				\$6,985,836.22

Sequence 2 Total	\$69,184,210.80
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Sequence: 3 WDU - Widen/Resurface, Divided, Urban

Net Length: 0.220 MI
1,160 LF

Description: M&R of Toms Rd Intersection

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	0.220
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	6 to 1 / 6 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	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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	1.33	AC	\$49,426.17	\$65,736.81
Earthwork Component Total					\$65,736.81

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Existing Roadway Pavement Width L/R	24.00 / 24.00
Structural Spread Rate	165
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	495
Widened Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
327-70-6	MILLING EXIST ASPH PAVT,1 1/2" AVG DEPTH	6,186.75	SY	\$4.37	\$27,036.10
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	510.41	TN	\$205.00	\$104,634.05
337-7-25	ASPH CONC FC,INC BIT,FC-5,PG76-22	247.47	TN	\$288.17	\$71,313.43

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2

Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	89.00	EA	\$4.39	\$390.71
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.44	GM	\$1,274.90	\$560.96
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.44	GM	\$530.93	\$233.61
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.44	GM	\$5,314.41	\$2,338.34
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.44	GM	\$1,645.53	\$724.03
711-16-201	THERMOPLASTIC, STD-OTH,YELLOW, SOLID, 6"	0.44	GM	\$5,316.09	\$2,339.08
Roadway Component Total					\$209,570.31

SHOULDER COMPONENT

User Input Data

Description	Value
Existing Total Outside Shoulder Width L/R	10.00 / 10.00
New Total Outside Shoulder Width L/R	7.25 / 7.25
Total Outside Shoulder Perf. Turf Width L/R	5.00 / 5.00
Sidewalk Width L/R	0.00 / 0.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
570-1-2	PERFORMANCE TURF, SOD	1,288.91	SY	\$4.96	\$6,392.99

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	1,639.00	SY	\$70.01	\$114,746.39
Comment: 6' SIDEWALK FOR 2458 LF = 14749 SF = 1639 SY					

Erosion Control

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,320.03	LF	\$3.24	\$7,516.90
104-11	FLOATING TURBIDITY BARRIER	21.97	LF	\$18.43	\$404.91
104-12	STAKED TURBIDITY BARRIER-NYL REINF PVC	21.97	LF	\$9.63	\$211.57
104-15	SOIL TRACKING PREVENTION DEVICE	1.00	EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	11.00	EA	\$150.43	\$1,654.73
107-1	LITTER REMOVAL	1.92	AC	\$61.61	\$118.29
107-2	MOWING	1.92	AC	\$73.49	\$141.10
Shoulder Component Total					\$135,186.88

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	20.00
Performance Turf Width	15.50

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	2,320.03 LF	\$45.20	\$104,865.36
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	946.00 LF	\$76.64	\$72,501.44
570-1-1	PERFORMANCE TURF	1,997.81 SY	\$0.95	\$1,897.92
Median Component Total				\$179,264.72

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	8.00 EA	\$7,911.36	\$63,290.88
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00 EA	\$11,481.26	\$34,443.78
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	128.00 LF	\$179.67	\$22,997.76
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$267.73	\$10,709.20
570-1-1	PERFORMANCE TURF	66.79 SY	\$0.95	\$63.45
Drainage Component Total				\$131,505.07

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	5.00 AS	\$471.02	\$2,355.10
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,584.40	\$1,584.40
700-1-50	SINGLE POST SIGN, RELOCATE	1.00 AS	\$277.92	\$277.92
700-1-60	SINGLE POST SIGN, REMOVE	5.00 AS	\$38.49	\$192.45
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$6,042.58	\$6,042.58
700-2-60	MULTI- POST SIGN, REMOVE	1.00 AS	\$883.07	\$883.07
Signing Component Total				\$11,335.52

SIGNALIZATIONS COMPONENT**Signalization 1**

Description	Value
Type	4 Lane Mast Arm
Multiplier	1
Description	Signals for Toms Rd and gas station entrance intersections

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00

630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 2

Description	Value
Type	4 Lane Mast Arm
Multiplier	1
Description	Signal for EB and WB lanes at gas station entrance intersection

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	375.00	LF	\$16.88	\$6,330.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	125.00	LF	\$39.64	\$4,955.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00	PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	8.00	EA	\$1,427.03	\$11,416.24
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00	AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	30.00	LF	\$8.92	\$267.60
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	2.00	EA	\$76,284.24	\$152,568.48
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	6.00	AS	\$1,839.19	\$11,035.14
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	4.00	AS	\$1,005.52	\$4,022.08
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	6.00	EA	\$667.18	\$4,003.08
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	6.00	AS	\$1,877.56	\$11,265.36
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	4.00	EA	\$335.92	\$1,343.68
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00	AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	2.00	EA	\$213.52	\$427.04

Interconnect Subcomponent

Description	Value
Type	U

Length of Fiber Run	2,677.00
Number of Intersections	2
Percentage of Underpavement Conduit	20.00

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
633-1-122	FIBER OPTIC CABLE, F&I, UG, 13-48	2,677.00	LF	\$3.58	\$9,583.66
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	8.00	AS	\$1,145.26	\$9,162.08
Signalizations Component Total					\$774,929.90

Sequence 3 Total	\$1,507,529.21
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Sequence: 4 NUR - New Construction, Undivided, Rural

Net Length: 2.255 MI
11,908 LF

Description: Aux Lanes - 12 ft Wide

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
Alignment Number	1
Distance	2.255
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	104.00
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

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
120-6	EMBANKMENT	13,754.10 CY	\$34.53	\$474,929.07
Earthwork Component Total				\$474,929.07

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	12.00 / 0.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	15,877.31 SY	\$14.98	\$237,842.10
285-710	OPTIONAL BASE,BASE GROUP 10	16,313.94 SY	\$51.48	\$839,841.63
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	3,929.63 TN	\$205.00	\$805,574.15
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	635.09 TN	\$288.17	\$183,013.89

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
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"	4.51	GM	\$1,274.90	\$5,749.80
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	4.51	GM	\$5,314.41	\$23,967.99
Roadway Component Total					\$2,095,989.56

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00	AS	\$471.02	\$1,884.08
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	36.00	AS	\$1,584.40	\$57,038.40
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	4.00	AS	\$6,042.58	\$24,170.32
Signing Component Total					\$83,092.80

Sequence 4 Total	\$2,654,011.43
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Sequence: 5 NUR - New Construction, Undivided, Rural

Net Length: 1.350 MI
7,130 LF

Description: Aux Lanes - 21.5 ft Wide

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	21.50 / 0.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	17,033.05 SY	\$14.98	\$255,155.09
285-710	OPTIONAL BASE,BASE GROUP 10	17,294.48 SY	\$51.48	\$890,319.83
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	4,215.68 TN	\$205.00	\$864,214.40
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	681.32 TN	\$288.17	\$196,335.98

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
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"	2.70 GM	\$1,274.90	\$3,442.23
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	2.70 GM	\$5,314.41	\$14,348.91
Roadway Component Total				\$2,223,816.44

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
430-174-124	PIPE CULV, OPT MATL, ROUND,24"SD	1,464.00 LF	\$181.18	\$265,247.52
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	312.00 LF	\$267.73	\$83,531.76
430-984-129	MITERED END SECT, OPTIONAL RD, 24" SD	74.00 EA	\$2,846.71	\$210,656.54
570-1-1	PERFORMANCE TURF	1,285.57 SY	\$0.95	\$1,221.29
Drainage Component Total				\$560,657.11

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00	AS	\$471.02	\$1,884.08
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	37.00	AS	\$1,584.40	\$58,622.80
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	4.00	AS	\$6,042.58	\$24,170.32
Signing Component Total					\$84,677.20
Sequence 5 Total					\$2,869,150.75

Sequence: 6 NUR - New Construction, Undivided, Rural

Net Length: 0.077 MI
405 LF

Description: Aux Lanes - 17.7 ft Wide

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	17.70 / 0.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	796.45 SY	\$14.98	\$11,930.82
285-710	OPTIONAL BASE,BASE GROUP 10	811.30 SY	\$51.48	\$41,765.72
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	197.12 TN	\$205.00	\$40,409.60
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	31.86 TN	\$288.17	\$9,181.10

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
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"	0.15 GM	\$1,274.90	\$191.24
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.15 GM	\$5,314.41	\$797.16

Roadway Component Total \$104,275.64

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	\$471.02	\$471.02
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	2.00 AS	\$1,584.40	\$3,168.80
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	1.00 AS	\$6,042.58	\$6,042.58

Signing Component Total \$9,682.40

Sequence 6 Total \$113,958.04

Sequence: 7 MIS - Miscellaneous Construction

Net Length: 8.549 MI
45,140 LF

Description: 12-ft Shared Use Path

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
120-6	EMBANKMENT	60,187.00 CY	\$34.53	\$2,078,257.11
Comment: Fill directly under Shared Use Path assuming fill height of 3 ft = 12 ft x 45140 ft x 3 ft / 27 CF = 60187 CY				
Earthwork Component Total				\$2,078,257.11

ROADWAY COMPONENT

Peripherals Subcomponent

Description	Value
Off Road Bike Path(s)	0
Off Road Bike Path Width L/R	6.00 / 6.00
Bike Path Structural Spread Rate	200
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
160-4	TYPE B STABILIZATION	80,248.49 SY	\$14.98	\$1,202,122.38
285-701	OPTIONAL BASE,BASE GROUP 01	60,186.37 SY	\$23.32	\$1,403,546.15
334-1-12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	6,018.64 TN	\$206.21	\$1,241,103.75
Roadway Component Total				\$3,846,772.28

Sequence 7 Total \$5,925,029.39

Sequence: 8 NUU - New Construction, Undivided, Urban

Net Length: 0.227 MI
1,200 LF

Description: Side Roads - Reconstruction of 2-Lane Undivided for 150 LF for Each Side Road

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	0.227
Top of Structural Course For Begin Section	104.00
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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.75	AC	\$49,426.17	\$135,921.97
120-1	REGULAR EXCAVATION	5,355.79	CY	\$29.90	\$160,138.12
Earthwork Component Total					\$296,060.09

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	2
Roadway Pavement Width L/R	12.00 / 12.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	3,888.47	SY	\$14.98	\$58,249.28
285-710	OPTIONAL BASE,BASE GROUP 10	3,200.38	SY	\$51.48	\$164,755.56
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	792.10	TN	\$205.00	\$162,380.50
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	128.02	TN	\$288.17	\$36,891.52

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	3
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	31.00	EA	\$4.39	\$136.09

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.68 GM	\$1,274.90	\$866.93
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.68 GM	\$5,314.41	\$3,613.80
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.23 GM	\$1,645.53	\$378.47
Roadway Component Total				\$427,272.15

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	4.25 / 4.25
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Sidewalk Width L/R	0.00 / 0.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,200.14 LF	\$43.70	\$52,446.12
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,200.14 LF	\$43.70	\$52,446.12
570-1-1	PERFORMANCE TURF	533.40 SY	\$0.95	\$506.73

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,400.29 LF	\$3.24	\$7,776.94
104-11	FLOATING TURBIDITY BARRIER	56.82 LF	\$18.43	\$1,047.19
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	56.82 LF	\$9.63	\$547.18
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	12.00 EA	\$150.43	\$1,805.16
107-1	LITTER REMOVAL	2.75 AC	\$61.61	\$169.43
107-2	MOWING	2.75 AC	\$73.49	\$202.10
Shoulder Component Total				\$120,946.97

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	9.00 EA	\$7,911.36	\$71,202.24
425-1-451	INLETS, CURB, TYPE J-5, <10'	3.00 EA	\$11,481.26	\$34,443.78
425-1-521	INLETS, DT BOT, TYPE C, <10'	2.00 EA	\$6,096.63	\$12,193.26
425-2-41	MANHOLES, P-7, <10'	2.00 EA	\$6,697.02	\$13,394.04
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	536.00 LF	\$179.67	\$96,303.12
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	48.00 LF	\$267.73	\$12,851.04
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	1,144.00 LF	\$420.19	\$480,697.36
570-1-1	PERFORMANCE TURF	69.10 SY	\$0.95	\$65.65
Drainage Component Total				\$721,150.49

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	5.00	AS	\$471.02	\$2,355.10
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00	AS	\$1,584.40	\$1,584.40
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00	AS	\$8,561.43	\$8,561.43
Signing Component Total					\$12,500.93

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	1,200.14	LF	\$16.88	\$20,258.36
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	156.61	LF	\$39.64	\$6,208.02
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00	EA	\$1,427.03	\$7,135.15
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	4,070.26	LF	\$4.05	\$16,484.55
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	5.00	EA	\$9,544.29	\$47,721.45
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00	EA	\$1,200.00	\$6,000.00
Subcomponent Total					\$103,807.54
Lighting Component Total					\$103,807.53

Sequence 8 Total	\$1,681,738.16
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Sequence: 9 NUU - New Construction, Undivided, Urban

Net Length: 0.199 MI
1,050 LF

Description: Side Roads - Reconstruction of 3-Lane Undivided for 150 LF for Each Side Road

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	0.199
Top of Structural Course For Begin Section	104.00
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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.41	AC	\$49,426.17	\$119,117.07
120-1	REGULAR EXCAVATION	5,508.69	CY	\$29.90	\$164,709.83
Earthwork Component Total					\$283,826.90

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	24.00 / 12.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	4,802.88	SY	\$14.98	\$71,947.14
285-710	OPTIONAL BASE,BASE GROUP 10	4,200.77	SY	\$51.48	\$216,255.64
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	1,039.69	TN	\$205.00	\$213,136.45
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	168.03	TN	\$288.17	\$48,421.21

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
706-1-3	RAISED PAVMT MARK, TYPE B	107.00	EA	\$4.39	\$469.73

710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.40 GM	\$1,274.90	\$509.96
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.40 GM	\$5,314.41	\$2,125.76
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	0.40 GM	\$5,316.09	\$2,126.44
Roadway Component Total				\$554,992.33

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	4.25 / 4.25
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 2.00
Sidewalk Width L/R	0.00 / 0.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,050.19 LF	\$43.70	\$45,893.30
520-1-10	CONCRETE CURB & GUTTER, TYPE F	1,050.19 LF	\$43.70	\$45,893.30
570-1-1	PERFORMANCE TURF	466.75 SY	\$0.95	\$443.41

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	2,100.38 LF	\$3.24	\$6,805.23
104-11	FLOATING TURBIDITY BARRIER	49.72 LF	\$18.43	\$916.34
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	49.72 LF	\$9.63	\$478.80
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	11.00 EA	\$150.43	\$1,654.73
107-1	LITTER REMOVAL	2.41 AC	\$61.61	\$148.48
107-2	MOWING	2.41 AC	\$73.49	\$177.11
Shoulder Component Total				\$106,410.70

DRAINAGE COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	8.00 EA	\$7,911.36	\$63,290.88
425-1-451	INLETS, CURB, TYPE J-5, <10'	2.00 EA	\$11,481.26	\$22,962.52
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$6,096.63	\$6,096.63
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$6,697.02	\$6,697.02
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	464.00 LF	\$179.67	\$83,366.88
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	40.00 LF	\$267.73	\$10,709.20
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	1,000.00 LF	\$420.19	\$420,190.00
570-1-1	PERFORMANCE TURF	60.47 SY	\$0.95	\$57.45
Drainage Component Total				\$613,370.58

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00	AS	\$471.02	\$1,884.08
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00	AS	\$1,584.40	\$1,584.40
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00	AS	\$8,561.43	\$8,561.43
Signing Component Total					\$12,029.91

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	1,050.19	LF	\$16.88	\$17,727.21
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	137.04	LF	\$39.64	\$5,432.27
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	5.00	EA	\$1,427.03	\$7,135.15
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	3,561.70	LF	\$4.05	\$14,424.88
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	5.00	EA	\$9,544.29	\$47,721.45
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	5.00	EA	\$1,200.00	\$6,000.00
Subcomponent Total					\$98,440.96
Lighting Component Total					\$98,440.97

Sequence 9 Total\$1,669,071.39

Sequence: 10 NDU - New Construction, Divided, Urban

Net Length: 0.028 MI
150 LF

Description: Side Road - Reconstruction of Turnbull Creek Rd for 150 LF

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	66.00 / 54.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.028
Top of Structural Course For Begin Section	104.00
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
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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.41	AC	\$49,426.17	\$20,264.73
120-1	REGULAR EXCAVATION	1,663.20	CY	\$29.90	\$49,729.68
Earthwork Component Total					\$69,994.41

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	5
Roadway Pavement Width L/R	36.00 / 27.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	1,221.61	SY	\$14.98	\$18,299.72
285-710	OPTIONAL BASE,BASE GROUP 10	1,049.66	SY	\$51.48	\$54,036.50
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	259.79	TN	\$205.00	\$53,256.95
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	41.99	TN	\$288.17	\$12,100.26

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	3

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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706-1-3	RAISED PAVMT MARK, TYPE B	15.00 EA	\$4.39	\$65.85
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.06 GM	\$1,274.90	\$76.49
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.09 GM	\$530.93	\$47.78
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.06 GM	\$5,314.41	\$318.86
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.09 GM	\$1,645.53	\$148.10
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	0.06 GM	\$5,316.09	\$318.97
Roadway Component Total				\$138,669.49

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	26.25 / 22.25
Total Outside Shoulder Perf. Turf Width L/R	16.00 / 15.00
Sidewalk Width L/R	8.00 / 5.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	149.95 LF	\$43.70	\$6,552.82
520-1-10	CONCRETE CURB & GUTTER, TYPE F	149.95 LF	\$43.70	\$6,552.82
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	216.60 SY	\$70.01	\$15,164.17
570-1-1	PERFORMANCE TURF	516.50 SY	\$0.95	\$490.68

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	299.90 LF	\$3.24	\$971.68
104-11	FLOATING TURBIDITY BARRIER	7.10 LF	\$18.43	\$130.85
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	7.10 LF	\$9.63	\$68.37
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$150.43	\$300.86
107-1	LITTER REMOVAL	0.72 AC	\$61.61	\$44.36
107-2	MOWING	0.72 AC	\$73.49	\$52.91

Shoulder Component Total **\$34,329.52**

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	13.00
Performance Turf Width	8.50

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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520-1-7	CONCRETE CURB & GUTTER, TYPE E	299.90 LF	\$45.20	\$13,555.48
570-1-1	PERFORMANCE TURF	141.62 SY	\$0.95	\$134.54
Median Component Total				\$13,690.02

DRAINAGE COMPONENT

Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$7,911.36	\$15,822.72
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$11,481.26	\$11,481.26
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$6,096.63	\$6,096.63
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$6,697.02	\$6,697.02
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00 LF	\$179.67	\$14,373.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$267.73	\$2,141.84
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	144.00 LF	\$420.19	\$60,507.36
570-1-1	PERFORMANCE TURF	8.63 SY	\$0.95	\$8.20
Drainage Component Total				\$117,128.63

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	\$471.02	\$471.02
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,584.40	\$1,584.40
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	1.00 AS	\$8,561.43	\$8,561.43
700-2-16	MULTI- POST SIGN, F&I GM, 101- 200 SF	1.00 AS	\$13,340.56	\$13,340.56
Signing Component Total				\$23,957.41

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	149.95 LF	\$16.88	\$2,531.16
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	29.76 LF	\$39.64	\$1,179.69
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	1.00 EA	\$1,427.03	\$1,427.03
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	547.67 LF	\$4.05	\$2,218.06
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	1.00 EA	\$9,544.29	\$9,544.29
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$1,200.00	\$1,200.00
Subcomponent Total				\$18,100.23

Lighting Component Total	\$18,100.23
Sequence 10 Total	\$415,869.71

Sequence: 11 NDU - New Construction, Divided, Urban

Net Length: 0.028 MI
150 LF

Description: Side Road - Reconstruction of Windward Ranch Blvd for 150 LF

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	45.00 / 35.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.028
Top of Structural Course For Begin Section	104.00
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
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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.27	AC	\$49,426.17	\$13,345.07
120-1	REGULAR EXCAVATION	1,147.95	CY	\$29.90	\$34,323.70
Earthwork Component Total					\$47,668.77

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	24.00 / 12.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	771.75	SY	\$14.98	\$11,560.82
285-710	OPTIONAL BASE,BASE GROUP 10	599.81	SY	\$51.48	\$30,878.22
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	148.45	TN	\$205.00	\$30,432.25
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	23.99	TN	\$288.17	\$6,913.20

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	1

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
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706-1-3	RAISED PAVMT MARK, TYPE B	8.00 EA	\$4.39	\$35.12
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.06 GM	\$1,274.90	\$76.49
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.03 GM	\$530.93	\$15.93
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.06 GM	\$5,314.41	\$318.86
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	0.03 GM	\$1,645.53	\$49.37
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	0.06 GM	\$5,316.09	\$318.97
Roadway Component Total				\$80,599.23

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	14.25 / 12.25
Total Outside Shoulder Perf. Turf Width L/R	7.00 / 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	149.95 LF	\$43.70	\$6,552.82
520-1-10	CONCRETE CURB & GUTTER, TYPE F	149.95 LF	\$43.70	\$6,552.82
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	166.61 SY	\$70.01	\$11,664.37
570-1-1	PERFORMANCE TURF	199.94 SY	\$0.95	\$189.94

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	299.90 LF	\$3.24	\$971.68
104-11	FLOATING TURBIDITY BARRIER	7.10 LF	\$18.43	\$130.85
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	7.10 LF	\$9.63	\$68.37
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$150.43	\$300.86
107-1	LITTER REMOVAL	0.72 AC	\$61.61	\$44.36
107-2	MOWING	0.72 AC	\$73.49	\$52.91

Shoulder Component Total **\$30,528.98**

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	14.00
Performance Turf Width	9.50

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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520-1-7	CONCRETE CURB & GUTTER, TYPE E	299.90 LF	\$45.20	\$13,555.48
570-1-1	PERFORMANCE TURF	158.28 SY	\$0.95	\$150.37
Median Component Total				\$13,705.85

DRAINAGE COMPONENT

Pay Items				
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$7,911.36	\$15,822.72
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$11,481.26	\$11,481.26
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$6,096.63	\$6,096.63
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$6,697.02	\$6,697.02
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00 LF	\$179.67	\$14,373.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$267.73	\$2,141.84
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	144.00 LF	\$420.19	\$60,507.36
570-1-1	PERFORMANCE TURF	8.63 SY	\$0.95	\$8.20
Drainage Component Total				\$117,128.63

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	\$471.02	\$471.02
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,584.40	\$1,584.40
700-2-15	MULTI- POST SIGN, F&I GM, 51- 100 SF	1.00 AS	\$8,561.43	\$8,561.43
700-2-16	MULTI- POST SIGN, F&I GM, 101- 200 SF	1.00 AS	\$13,340.56	\$13,340.56
Signing Component Total				\$23,957.41

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	149.95 LF	\$16.88	\$2,531.16
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	29.76 LF	\$39.64	\$1,179.69
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	1.00 EA	\$1,427.03	\$1,427.03
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	547.67 LF	\$4.05	\$2,218.06
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	1.00 EA	\$9,544.29	\$9,544.29
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$1,200.00	\$1,200.00
Subcomponent Total				\$18,100.23

Lighting Component Total

\$18,100.23

Sequence 11 Total

\$331,689.10

Sequence: 12 NDU - New Construction, Divided, Urban

Net Length: 0.028 MI
150 LF

Description: Side Road - Reconstruction of Whisper Ridge Dr for 150 LF

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	48.00 / 52.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.028
Top of Structural Course For Begin Section	104.00
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
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

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	0.34	AC	\$49,426.17	\$16,804.90
120-1	REGULAR EXCAVATION	1,171.50	CY	\$29.90	\$35,027.85
Earthwork Component Total					\$51,832.75

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	3
Roadway Pavement Width L/R	22.00 / 11.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	721.77	SY	\$14.98	\$10,812.11
285-710	OPTIONAL BASE,BASE GROUP 10	549.82	SY	\$51.48	\$28,304.73
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	136.08	TN	\$205.00	\$27,896.40
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	21.99	TN	\$288.17	\$6,336.86

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
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706-1-3	RAISED PAVMT MARK, TYPE B	8.00 EA	\$4.39	\$35.12
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	0.11 GM	\$1,274.90	\$140.24
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	0.06 GM	\$530.93	\$31.86
Roadway Component Total				\$73,557.31

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	4.25 / 15.75
Total Outside Shoulder Perf. Turf Width L/R	2.00 / 8.50
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	149.95 LF	\$43.70	\$6,552.82
520-1-10	CONCRETE CURB & GUTTER, TYPE F	149.95 LF	\$43.70	\$6,552.82
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	83.31 SY	\$70.01	\$5,832.53
570-1-1	PERFORMANCE TURF	174.94 SY	\$0.95	\$166.19

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	299.90 LF	\$3.24	\$971.68
104-11	FLOATING TURBIDITY BARRIER	7.10 LF	\$18.43	\$130.85
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	7.10 LF	\$9.63	\$68.37
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	2.00 EA	\$150.43	\$300.86
107-1	LITTER REMOVAL	0.72 AC	\$61.61	\$44.36
107-2	MOWING	0.72 AC	\$73.49	\$52.91

Shoulder Component Total **\$24,673.39**

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	26.00
Performance Turf Width	21.50

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	299.90 LF	\$45.20	\$13,555.48
570-1-1	PERFORMANCE TURF	358.22 SY	\$0.95	\$340.31

Median Component Total **\$13,895.79**

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	2.00 EA	\$7,911.36	\$15,822.72
425-1-451	INLETS, CURB, TYPE J-5, <10'	1.00 EA	\$11,481.26	\$11,481.26
425-1-521	INLETS, DT BOT, TYPE C, <10'	1.00 EA	\$6,096.63	\$6,096.63
425-2-41	MANHOLES, P-7, <10'	1.00 EA	\$6,697.02	\$6,697.02
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	80.00 LF	\$179.67	\$14,373.60
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	8.00 LF	\$267.73	\$2,141.84
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	144.00 LF	\$420.19	\$60,507.36
570-1-1	PERFORMANCE TURF	8.63 SY	\$0.95	\$8.20
Drainage Component Total				\$117,128.63

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	\$471.02	\$471.02
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	1.00 AS	\$1,584.40	\$1,584.40
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	1.00 AS	\$8,561.43	\$8,561.43
700-2-16	MULTI- POST SIGN, F&I GM, 101-200 SF	1.00 AS	\$13,340.56	\$13,340.56
Signing Component Total				\$23,957.41

LIGHTING COMPONENT**Conventional Lighting Subcomponent**

Description			Value	
Spacing			MIN	
Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	149.95 LF	\$16.88	\$2,531.16
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	29.76 LF	\$39.64	\$1,179.69
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	1.00 EA	\$1,427.03	\$1,427.03
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2	547.67 LF	\$4.05	\$2,218.06
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L	1.00 EA	\$9,544.29	\$9,544.29
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL	1.00 EA	\$1,200.00	\$1,200.00
Subcomponent Total				\$18,100.23
Lighting Component Total				\$18,100.23

Sequence 12 Total**\$323,145.51**

Sequence: 13 MIS - Miscellaneous Construction

Net Length: 0.000 MI
0 LF

Description: Preferred Pond Alternatives (Basins 2, 3, 4, 5, & 6)

SHOULDER COMPONENT

User Input Data

Description	Value
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X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	11,880.00	LF	\$3.24	\$38,491.20
Comment: Sediment barrier total for Ponds 2, 3, 4, 5, & 6					
Shoulder Component Total					\$38,491.20

DRAINAGE COMPONENT

Retention Basin 2

Description	Value
Size	10 AC
Multiplier	1
Depth	3.00
Description	Pond 2C

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	9.36	AC	\$49,426.17	\$462,628.95
120-1	REGULAR EXCAVATION	42,818.00	CY	\$29.90	\$1,280,258.20
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	3,554.00	LF	\$29.37	\$104,380.98
550-60-234	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN	1.00	EA	\$5,291.94	\$5,291.94
570-1-2	PERFORMANCE TURF, SOD	22,022.00	SY	\$4.96	\$109,229.12

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-549	INLETS, DT BOT, TYPE D, MODIFY	1.00	EA	\$9,041.63	\$9,041.63
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	504.00	LF	\$179.67	\$90,553.68

Retention Basin 3

Description	Value
Size	2.5 AC
Multiplier	1
Depth	4.00
Description	POND 3C

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	2.50	AC	\$49,426.17	\$123,565.42
120-1	REGULAR EXCAVATION	15,778.00	CY	\$29.90	\$471,762.20
425-1-361	INLETS, CURB, TYPE P-6, <10'	1.00	EA	\$5,724.34	\$5,724.34
425-2-71	MANHOLES, J-7, <10'	1.00	EA	\$10,290.13	\$10,290.13
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00	LF	\$347.39	\$19,453.84

430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	200.00 LF	\$1,125.00	\$225,000.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,335.00 LF	\$29.37	\$39,208.95
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00 EA	\$5,291.94	\$5,291.94
570-1-1	PERFORMANCE TURF	12,100.00 SY	\$0.95	\$11,495.00

Retention Basin 4

Description	Value
Size	5 AC
Multiplier	1
Depth	4.00
Description	POND 4C

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	5.00	AC	\$49,426.17	\$247,130.85
120-1	REGULAR EXCAVATION	41,252.00	CY	\$29.90	\$1,233,434.80
425-1-541	INLETS, DT BOT, TYPE D, <10'	1.00	EA	\$6,772.39	\$6,772.39
425-2-71	MANHOLES, J-7, <10'	2.00	EA	\$10,290.13	\$20,580.26
430-175-142	PIPE CULV, OPT MATL, ROUND, 42"S/CD	56.00	LF	\$347.39	\$19,453.84
430-175-160	PIPE CULV, OPT MATL, ROUND, 60"S/CD	400.00	LF	\$1,125.00	\$450,000.00
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	1,860.00	LF	\$29.37	\$54,628.20
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	2.00	EA	\$5,291.94	\$10,583.88
570-1-1	PERFORMANCE TURF	24,200.00	SY	\$0.95	\$22,990.00

Retention Basin 5

Description	Value
Size	5 AC
Multiplier	1
Depth	4.00
Description	POND 5C

Pay Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	4.98	AC	\$49,426.17	\$246,142.33
120-1	REGULAR EXCAVATION	22,925.00	CY	\$29.90	\$685,457.50
550-10-220	FENCING, TYPE B, 5.1-6.0', STANDARD	2,526.00	LF	\$29.37	\$74,188.62
550-60-234	FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN	1.00	EA	\$5,291.94	\$5,291.94
570-1-2	PERFORMANCE TURF, SOD	14,956.00	SY	\$4.96	\$74,181.76

X-Items

Pay item	Description	Quantity	Unit	Unit Price	Extended Amount
425-1-549	INLETS, DT BOT, TYPE D, MODIFY	1.00	EA	\$9,041.63	\$9,041.63
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	504.00	LF	\$179.67	\$90,553.68

Drainage Component Total

\$6,223,608.01

Sequence 13 Total

\$6,262,099.21

Sequence: 14 NDU - New Construction, Divided, Urban

Net Length: 0.757 MI
3,996 LF

Description: 4-Lane Divided, Full Reconstruction - IGP to just East of CR 2209

EARTHWORK COMPONENT

User Input Data

Description	Value
Standard Clearing and Grubbing Limits L/R	100.00 / 100.00
Incidental Clearing and Grubbing Area	0.00
Alignment Number	1
Distance	0.757
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	104.00
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

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	18.35 AC	\$49,426.17	\$906,970.22
120-6	EMBANKMENT	80,036.90 CY	\$34.53	\$2,763,674.16

Earthwork Component Total \$3,670,644.38

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	4
Roadway Pavement Width L/R	29.00 / 29.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	30,333.35 SY	\$14.98	\$454,393.58
285-710	OPTIONAL BASE,BASE GROUP 10	25,751.38 SY	\$51.48	\$1,325,681.04
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	6,373.47 TN	\$205.00	\$1,306,561.35
337-7-25	ASPH CONC FC,INC BIT,FC- 5,PG76-22	1,030.06 TN	\$288.17	\$296,832.39

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
Skip Stripe No. of Stripes	2

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
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706-1-3	RAISED PAVMT MARK, TYPE B	307.00 EA	\$4.39	\$1,347.73
710-11-101	PAINTED PAVT MARK,STD,WHITE,SOLID,6"	1.51 GM	\$1,274.90	\$1,925.10
710-11-131	PAINTED PAVT MARK,STD,WHITE,SKIP, 6"	1.51 GM	\$530.93	\$801.70
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	1.51 GM	\$5,314.41	\$8,024.76
711-16-131	THERMOPLASTIC, STD-OTH, WHITE, SKIP, 6"	1.51 GM	\$1,645.53	\$2,484.75
711-16-201	THERMOPLASTIC, STD- OTH,YELLOW, SOLID, 6"	1.51 GM	\$5,316.09	\$8,027.30
Roadway Component Total				\$3,406,079.70

SHOULDER COMPONENT

User Input Data

Description	Value
Total Outside Shoulder Width L/R	17.25 / 21.25
Total Outside Shoulder Perf. Turf Width L/R	7.00 / 7.00
Sidewalk Width L/R	8.00 / 12.00

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-10	CONCRETE CURB & GUTTER, TYPE F	3,995.90 LF	\$43.70	\$174,620.83
520-1-10	CONCRETE CURB & GUTTER, TYPE F	3,995.90 LF	\$43.70	\$174,620.83
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	8,879.79 SY	\$70.01	\$621,674.10
570-1-2	PERFORMANCE TURF, SOD	6,215.85 SY	\$4.96	\$30,830.62

X-Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
570-1-1	PERFORMANCE TURF	29,640.00 SY	\$0.95	\$28,158.00
	Comment: Turf to r/w: 1:6 slope x length of sequence assuming the road is raised 5 ft Right = sqrt(5 2 + 32 2) x 3996 LF / 9 SF = 14380 SY Left = sqrt(5 2 + 34 2) x 3996 LF / 9 SF = 15260 SY			

Erosion Control

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
104-10-3	SEDIMENT BARRIER	7,991.81 LF	\$3.24	\$25,893.46
104-11	FLOATING TURBIDITY BARRIER	189.20 LF	\$18.43	\$3,486.96
104-12	STAKED TURBIDITY BARRIER- NYL REINF PVC	189.20 LF	\$9.63	\$1,822.00
104-15	SOIL TRACKING PREVENTION DEVICE	1.00 EA	\$4,000.00	\$4,000.00
104-18	INLET PROTECTION SYSTEM	39.00 EA	\$150.43	\$5,866.77
107-1	LITTER REMOVAL	19.26 AC	\$61.61	\$1,186.61
107-2	MOWING	19.26 AC	\$73.49	\$1,415.42

Shoulder Component Total **\$1,073,575.60**

MEDIAN COMPONENT

User Input Data

Description	Value
Total Median Width	30.00
Performance Turf Width	25.50

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
520-1-7	CONCRETE CURB & GUTTER, TYPE E	7,991.81 LF	\$45.20	\$361,229.81
520-5-11	TRAF SEP CONC-TYPE I, 4' WIDE	328.00 LF	\$76.64	\$25,137.92
570-1-2	PERFORMANCE TURF, SOD	11,321.73 SY	\$4.96	\$56,155.78
Median Component Total				\$442,523.51

DRAINAGE COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
425-1-351	INLETS, CURB, TYPE P-5, <10'	28.00 EA	\$7,911.36	\$221,518.08
425-1-451	INLETS, CURB, TYPE J-5, <10'	8.00 EA	\$11,481.26	\$91,850.08
425-1-521	INLETS, DT BOT, TYPE C, <10'	4.00 EA	\$6,096.63	\$24,386.52
425-2-41	MANHOLES, P-7, <10'	4.00 EA	\$6,697.02	\$26,788.08
430-175-124	PIPE CULV, OPT MATL, ROUND, 24"S/CD	2,008.00 LF	\$179.67	\$360,777.36
430-175-136	PIPE CULV, OPT MATL, ROUND, 36"S/CD	184.00 LF	\$267.73	\$49,262.32
430-175-148	PIPE CULV, OPT MATL, ROUND, 48"S/CD	3,784.00 LF	\$420.19	\$1,589,998.96
570-1-1	PERFORMANCE TURF	230.07 SY	\$0.95	\$218.57
Drainage Component Total				\$2,364,799.97

SIGNING COMPONENT**Pay Items**

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	19.00 AS	\$471.02	\$8,949.38
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	2.00 AS	\$1,584.40	\$3,168.80
700-2-15	MULTI- POST SIGN, F&I GM, 51-100 SF	2.00 AS	\$8,561.43	\$17,122.86
700-2-16	MULTI- POST SIGN, F&I GM, 101-200 SF	2.00 AS	\$13,340.56	\$26,681.12
Signing Component Total				\$55,922.16

SIGNALIZATIONS COMPONENT**Signalization 1**

Description	Value
Type	4 Lane Mast Arm
Multiplier	1
Description	Signals at CR 2209 Intersection

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	750.00 LF	\$16.88	\$12,660.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	250.00 LF	\$39.64	\$9,910.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	16.00 EA	\$1,427.03	\$22,832.48
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
649-21-10	STEEL MAST ARM ASSEMBLY, F&I, 60'	4.00 EA	\$76,284.24	\$305,136.96
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	12.00 AS	\$1,839.19	\$22,070.28
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	12.00 EA	\$667.18	\$8,006.16
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	12.00 AS	\$1,877.56	\$22,530.72
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30
700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08

Signalization 2

Description	Value
Type	6 Lane Mast Arm
Multiplier	1
Description	Signals at IGP Intersection

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
630-2-11	CONDUIT, F& I, OPEN TRENCH	700.00 LF	\$16.88	\$11,816.00
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE	300.00 LF	\$39.64	\$11,892.00
632-7-1	SIGNAL CABLE- NEW OR RECO, FUR & INSTALL	1.00 PI	\$11,823.07	\$11,823.07
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24"	22.00 EA	\$1,427.03	\$31,394.66
639-1-112	ELECTRICAL POWER SRV,F&I,OH,M,PUR BY CON	1.00 AS	\$4,022.16	\$4,022.16
639-2-1	ELECTRICAL SERVICE WIRE, F&I	60.00 LF	\$8.92	\$535.20
641-2-11	PREST CNC POLE,F&I,TYP P-II,PEDESTAL	1.00 EA	\$4,682.71	\$4,682.71
649-21-21	STEEL MAST ARM ASSEMBLY, F&I, 78'	6.00 EA	\$111,038.70	\$666,232.20
650-1-14	VEH TRAF SIGNAL,F&I ALUMINUM, 3 S 1 W	20.00 AS	\$1,839.19	\$36,783.80
653-1-11	PEDESTRIAN SIGNAL, F&I LED COUNT, 1 WAY	8.00 AS	\$1,005.52	\$8,044.16
660-1-102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	20.00 EA	\$667.18	\$13,343.60
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	20.00 AS	\$1,877.56	\$37,551.20
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	8.00 EA	\$335.92	\$2,687.36
670-5-111	TRAF CNTL ASSEM, F&I, NEMA, 1 PREEMPT	1.00 AS	\$50,796.30	\$50,796.30

700-3-101	SIGN PANEL, F&I GM, UP TO 12 SF	4.00 EA	\$213.52	\$854.08
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Interconnect Subcomponent

Description	Value
Type	U
Length of Fiber Run	4,410.00
Number of Intersections	2
Percentage of Underpavement Conduit	20.30

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
633-1-122	FIBER OPTIC CABLE, F&I, UG,13-48	4,410.00 LF	\$3.58	\$15,787.80
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	8.00 AS	\$1,145.26	\$9,162.08

Signalizations Component Total	\$1,399,317.31
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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 3,995.90 LF \$16.88 \$67,450.79
630-2-12	CONDUIT, F& I, DIRECTIONAL BORE 793.13 LF \$39.64 \$31,439.67
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" 27.00 EA \$1,427.03 \$38,529.81
715-1-13	LIGHTING CONDUCTORS, F&I, INSUL, NO.4-2 14,594.13 LF \$4.05 \$59,106.23
715-61-342	LIGHT POLE CMPLT,STD,F&I, 40'MH,12'ARM L 27.00 EA \$9,544.29 \$257,695.83
715-500-1	POLE CABLE DIST SYS, CONVENTIONAL 27.00 EA \$1,200.00 \$32,400.00
	Subcomponent Total \$486,622.33
	Lighting Component Total \$486,622.33

Sequence 14 Total	\$12,899,484.96
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Sequence: 15 NUR - New Construction, Undivided, Rural

Net Length: 0.422 MI
2,226 LF

Description: Aux Lanes - 11 ft Wide (IGP to CR 2209)

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
Alignment Number	1
Distance	0.422
Top of Structural Course For Begin Section	104.00
Top of Structural Course For End Section	104.00
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

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
120-6	EMBANKMENT	2,365.98 CY	\$34.53	\$81,697.29
Earthwork Component Total				\$81,697.29

ROADWAY COMPONENT

User Input Data

Description	Value
Number of Lanes	1
Roadway Pavement Width L/R	11.00 / 0.00
Structural Spread Rate	495
Friction Course Spread Rate	80

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
160-4	TYPE B STABILIZATION	2,720.73 SY	\$14.98	\$40,756.54
285-710	OPTIONAL BASE,BASE GROUP 10	2,802.35 SY	\$51.48	\$144,264.98
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	673.38 TN	\$205.00	\$138,042.90
337-7-83	ASPH CONC FC,TRAFFIC C,FC- 12.5,PG 76-22	108.83 TN	\$213.30	\$23,213.44

Pavement Marking Subcomponent

Description	Value
Include Thermo/Tape/Other	Y
Pavement Type	Asphalt
Solid Stripe No. of Paint Applications	1
Solid Stripe No. of Stripes	2
Skip Stripe No. of Paint Applications	1
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"	0.84 GM	\$1,274.90	\$1,070.92
711-16-101	THERMOPLASTIC, STD-OTH, WHITE, SOLID, 6"	0.84 GM	\$5,314.41	\$4,464.10
Roadway Component Total				\$351,812.88

SIGNING COMPONENT

Pay Items

Pay item	Description	Quantity Unit	Unit Price	Extended Amount
700-1-11	SINGLE POST SIGN, F&I GM, <12 SF	4.00 AS	\$471.02	\$1,884.08
700-1-12	SINGLE POST SIGN, F&I GM, 12-20 SF	36.00 AS	\$1,584.40	\$57,038.40
700-2-14	MULTI- POST SIGN, F&I GM, 31-50 SF	4.00 AS	\$6,042.58	\$24,170.32
Signing Component Total				\$83,092.80

Sequence 15 Total	\$516,602.97
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Date: 3/4/2025 11:17:51 AM

FDOT Long Range Estimating System - Production

R3: Project Details by Sequence Report

Project: 210447-5-52-01

Letting Date: 01/2099

Description: SR 16 FROM IGP TO I-95 PD&E STUDY

District: 02

County: 78 ST. JOHNS

Market Area: 05

Units: English

Contract Class:

Lump Sum Project: N

Design/Build: N

Project Length: 5.900 MI

Project Manager: Keith Bogart

Version 14 Project Grand Total

\$188,678,060.82

Description: (IGP to 95) Rural Typical - With Shoulder Gutter and Wall in High Fill Areas - PD&E

Project Sequences Subtotal	\$111,328,456.17
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102-1	Maintenance of Traffic	12.00 %	\$13,359,414.74
101-1	Mobilization	12.00 %	\$14,962,544.51

Project Sequences Total	\$139,650,415.42
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Project Unknowns	35.00 %	\$48,877,645.40
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Justification for high e
%:

Design/Build	0.00 %	\$0.00
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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
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Version 14 Project Grand Total	\$188,678,060.82
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