

2015 Design Training Expo

Enhanced Plans

Integrated and Intelligent Plans for the 21st Century



Celebrating 100 Years of Innovation, Mobility and Economic Development

20th Century Plans

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS (NOT INCLUDED)
SIGNALIZATION PLANS
ITS PLANS
LIGHTING PLANS
LANDSCAPE PLANS (NOT INCLUDED)

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A - 1B	NOTES TO REVIEWERS
2	DRAINAGE MAP
3 - 10	TYPICAL SECTION
11	PROJECT NOTES
12 - 24	PLAN
25	ROADWAY SOILS SURVEY
26 - 64	CROSS SECTIONS
65	TEMPORARY TRAFFIC CONTROL PLAN
CT1 - CT2	PROJECT SURVEY CONTROL

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.
412	1 of 5
519	1 of 1
600	1-12 of 12
603	1-2 of 2
11200	3 of 3
11860	4 of 8
17302	1 of 1
17346	1-2 and 13-14 of 14
17347	1-5 of 5
17841	1 of 1

GOVERNING STANDARDS AND SPECIFICATIONS
Florida Department of Transportation, 2003 Design Standards and revised Index Drawings as appended herin, and July 2005 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.
For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rdesign/>
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

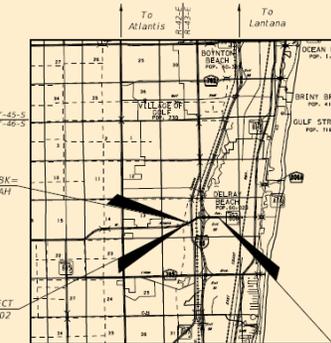
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 434722-1-52-01
(FEDERAL FUNDS)
PALM BEACH COUNTY (93030)
STATE ROAD NO. 806



CONSTRUCTION CONTRACT NO. T4XXX



ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:
BRUNO J. FIORI, P.E.
ACOM TECHNICAL SERVICES, INC.
400 BOY SCOUT BLVD, STE 300
TAMPA, FLORIDA 33607
TEL: (813) 430-2500 • FAX: (813) 623-2300
CERTIFICATE OF AUTHORIZATION NO. 855
VENDOR NO. 95-268R12
CONTRACT NO. C-954

PLANS PREPARED BY:
ACOM TECHNICAL SERVICES, INC.
400 BOY SCOUT BLVD, STE 300
TAMPA, FLORIDA 33607
TEL: (813) 430-2500 • FAX: (813) 623-2300
CERTIFICATE OF AUTHORIZATION NO. 855
VENDOR NO. 95-268R12
CONTRACT NO. C-954

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
ENGINEER OF RECORD: BRUNO J. FIORI, P.E.
P.E. NO.: 09150

FISCAL YEAR	SHEET NO.
18	1

LIST OF REVISED INDEX DRAWINGS

STA. 269+76.40 BK=
STA. 269+76.44 AH

BEGIN PROJECT
STA. 268+75.02
MP 6.778

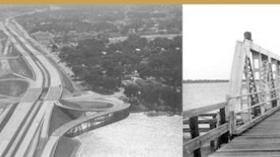
END PROJECT
STA. 313+33.56
MP 7.632

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	4508.50	0.854
BRIDGES		
NET LENGTH OF PROJECT	4508.50	0.854
EXCEPTIONS		
GROSS LENGTH OF PROJECT	4508.50	0.854

KEY SHEET REVISIONS

DATE	DESCRIPTION

FDOT PROJECT MANAGER: BRENT LEE-SHUE-LING, P.E.



Innovative Solutions for tomorrow's transportation needs



21st Century Plans

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS (NOT INCLUDED)
SIGNALIZATION PLANS
ITS PLANS
LIGHTING PLANS
LANDSCAPE PLANS (NOT INCLUDED)

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A - 1B	NOTES TO REVIEWERS
2 - 9	TYPICAL SECTION
10	PROJECT NOTES
11	PLAN
24 - 23	ROADWAY SOILS SURVEY
25 - 43	CROSS SECTIONS
64	TEMPORARY TRAFFIC CONTROL PLAN

25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44
45	46	47	48	49	50	51	52	53	54
55	56	57	58	59	60	61	62	63	

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.
412	1 of 5
519	1 of 1
609	1-12 of 12
603	1-2 of 2
11200	3 of 3
11860	4 of 8
17302	1 of 1
17346	1-2 and 13-14 of 14
17347	1-5 of 5
17841	1 of 1

GOVERNING STANDARDS AND SPECIFICATIONS
Florida Department of Transportation, 2003 Design Standards and revised Index Drawings as appended herewin, and July 2005 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.
For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/trd/design/>
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 434722-1-52-01
(FEDERAL FUNDS)
PALM BEACH COUNTY (93030)
STATE ROAD NO. 806



CONSTRUCTION CONTRACT NO. T4XXX



ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:
BRUNO J. FIORI, P.E.
AECOM TECHNICAL SERVICES, INC.
400 BOY SCOUT BLVD, STE 300
TAMPA, FLORIDA 33607
TEL: (813) 430-2500 * FAX: (813) 632-2300
CERTIFICATE OF AUTHORIZATION NO. 885
VENDOR NO. 95-268R12
CONTRACT NO. C-9934

PLANS PREPARED BY:
AECOM TECHNICAL SERVICES, INC.
400 BOY SCOUT BLVD, STE 300
TAMPA, FLORIDA 33607
TEL: (813) 430-2500 * FAX: (813) 632-2300
CERTIFICATE OF AUTHORIZATION NO. 885
VENDOR NO. 95-268R12
CONTRACT NO. C-9934

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
ENGINEER OF RECORD: BRUNO J. FIORI, P.E.
P.E. NO.: 49150

FISCAL YEAR	SHEET NO.
16	1

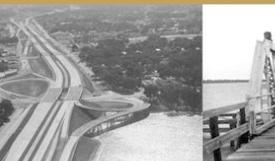
LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	4508.50	0.834
BRIDGES		
NET LENGTH OF PROJECT	4508.50	0.834
EXCEPTIONS		
GROSS LENGTH OF PROJECT	4508.50	0.834

FDOT PROJECT MANAGER: BRENT LEE-SHUE-LING, P.E.

KEY SHEET REVISIONS

DATE	DESCRIPTION



Innovative Solutions for tomorrow's transportation needs

What are Enhanced Plans?

- Adds graphics & links to PLANS.PDF to accelerate plans navigation, information retrieval & support quality assurance
- Uses “off-the-shelf” PDF software
- Focus is on the *quality* of the connections & content – Not the technology

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS (NOT INCLUDED)
SIGNALIZATION PLANS
ITS PLANS
LIGHTING PLANS
LANDSCAPE PLANS (NOT INCLUDED)

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A - 1B	NOTES TO REVIEWERS
2 - 9	TYPICAL SECTION
10	PROJECT NOTES
11 - 23	PLAN
24	ROADWAY SOILS SURVEY
25 - 63	CROSS SECTIONS
64	TEMPORARY TRAFFIC CONTROL PLAN

LIST OF REVISED INDEX DRAWINGS

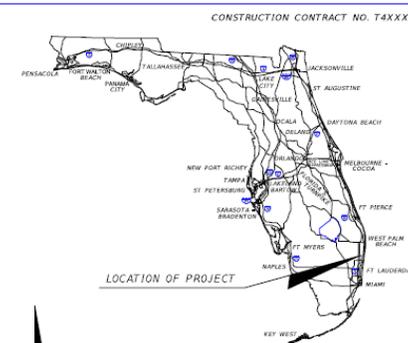
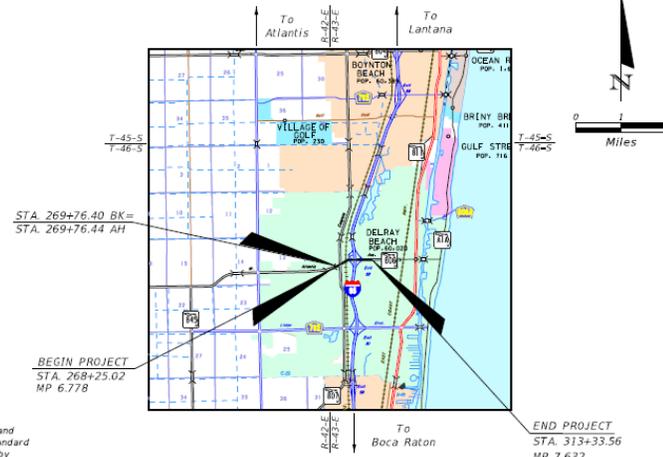
INDEX NO.	SHEET NO.
412	1 of 5
519	1 of 1
600	1-12 of 12
603	1-2 of 2
11200	3 of 3
11860	4 of 8
17302	1 of 1
17346	1-2 and 13-14 of 14
17347	1-5 of 5
17841	1 of 1

GOVERNING STANDARDS AND SPECIFICATIONS:
Florida Department of Transportation, 2013 Design Standards and revised Index Drawings as appended herein, and July 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.
For Design Standards click on the "Design Standards" link at the following web site:
<http://www.dot.state.fl.us/rddesign/>
For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site:
<http://www.dot.state.fl.us/specificationsoffice/>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 434722-1-52-01
(FEDERAL FUNDS)
PALM BEACH COUNTY (93030)
STATE ROAD NO. 806

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	4508.50	0.854
BRIDGES		
NET LENGTH OF PROJECT	4508.50	0.854
EXCEPTIONS		
GROSS LENGTH OF PROJECT	4508.50	0.854

KEY SHEET REVISIONS

DATE	DESCRIPTION

RDOT PROJECT MANAGER: BRENT LEE-SHUE-LING, P.E.

CONSTRUCTION CONTRACT NO. T4XXX

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:
BRUNO J. FIORI, P.E.
AECOM TECHNICAL SERVICES, INC.
4010 BOY SCOUT BLVD., STE. 300
TAMPA, FLORIDA 33607

PLANS PREPARED BY:
AECOM TECHNICAL SERVICES, INC.
4010 BOY SCOUT BLVD., STE. 300
TAMPA, FLORIDA 33607
TEL: (813) 630-2500 • FAX: (813) 421-2300
CERTIFICATE OF AUTHORIZATION NO. 815
VENDOR NO. 43-265922
CONTRACT NO. C-9F54

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
ENGINEER OF RECORD: BRUNO J. FIORI, P.E.

P.E. NO.: 49150

FISCAL YEAR	SHEET NO.
16	1



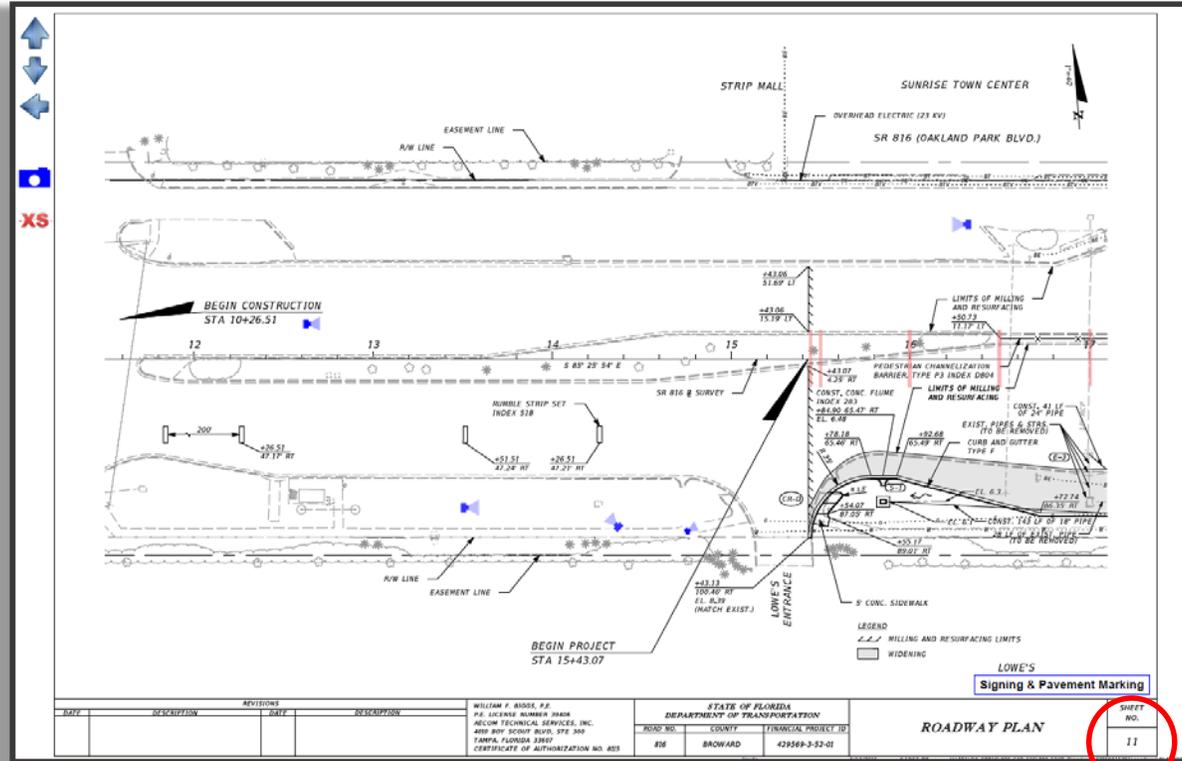
Navigation – Sheets

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A	NOTES TO REVIEWERS
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS (NOT INCLUDED)
4 - 5	TYPICAL SECTIONS
SQ-1 - SQ-7	SUMMARY OF QUANTITIES
8	SUMMARY OF DRAINAGE STRUCTURES
9	OPTIONAL MATERIALS TABULATION
10	PROJECT NOTES
11 - 13	ROADWAY PLAN
14 - 20	DRAINAGE STRUCTURES
21	ROADWAY SOIL SURVEY
22 - 31	CROSS SECTIONS
32 - 34	STORM WATER POLLUTION PREVENTION PLAN
35 - 37	EROSION CONTROL PLANS
38 - 39	TEMPORARY TRAFFIC CONTROL PLAN
D804	PEDESTRIAN CHANNELIZATION BARRIER

SQ-1	SQ-2	11	12	13	14	15
SQ-3	SQ-4	16	17	18	19	20
SQ-5	SQ-6	22	23	24	25	26
SQ-7		27	28	29	30	31

BE
ST

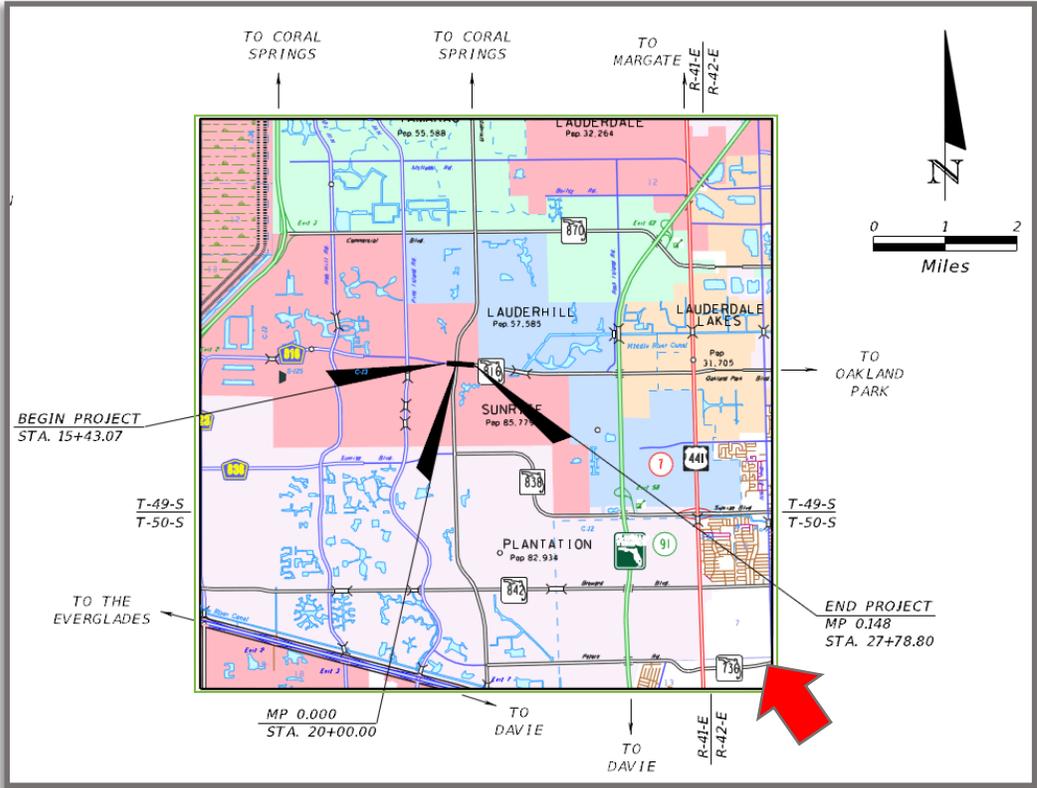


- Select links such as those on the key sheet Index of Plans to advance rapidly to the correct plan sheet.

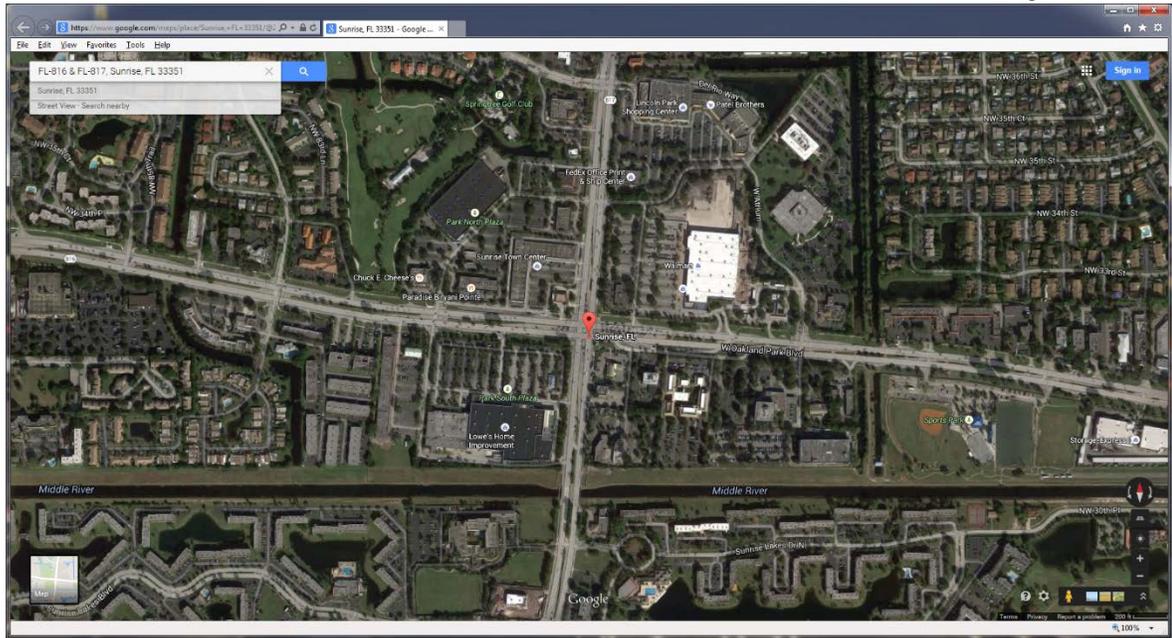


Innovative Solutions for tomorrow's transportation needs

Navigation – Web-Maps

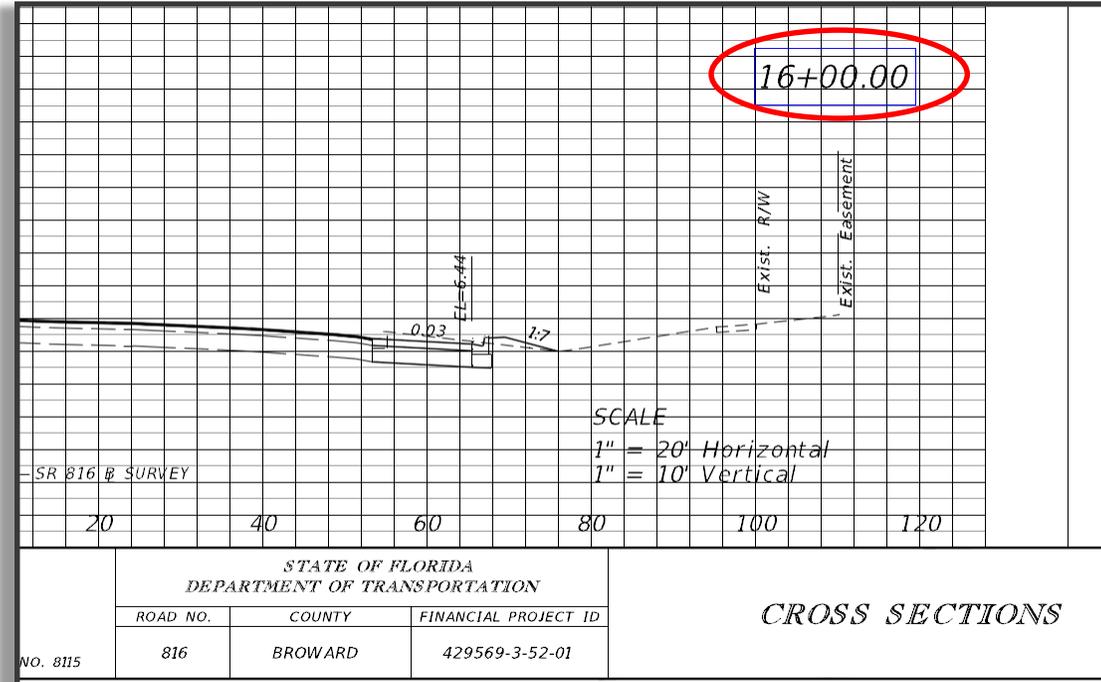
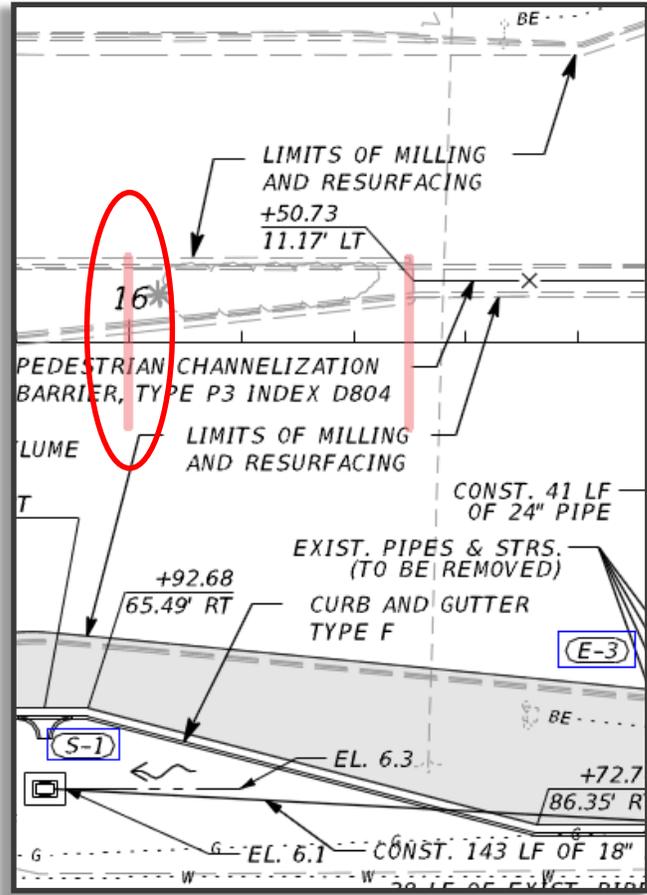


- Use the key sheet project location map for immediate access to web-based maps.



Innovative Solutions for tomorrow's transportation needs

Navigation – Cross Sections

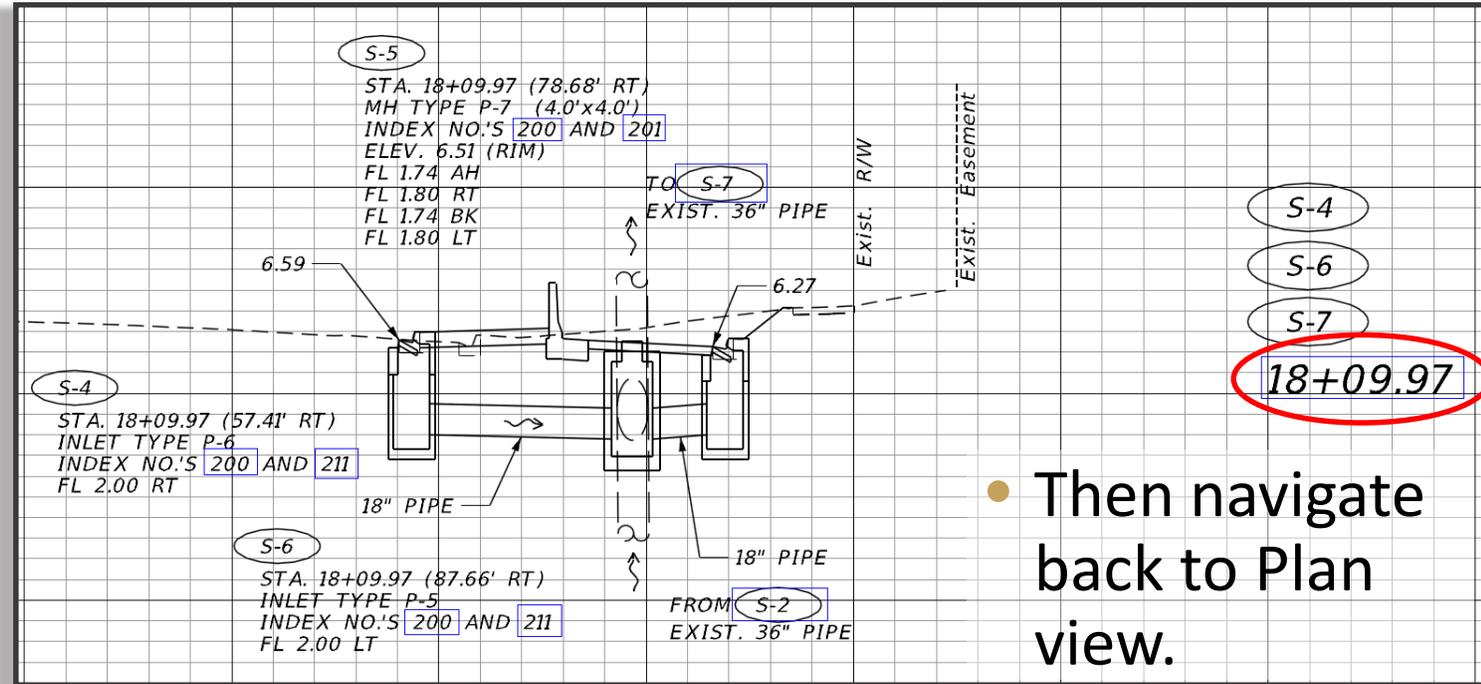
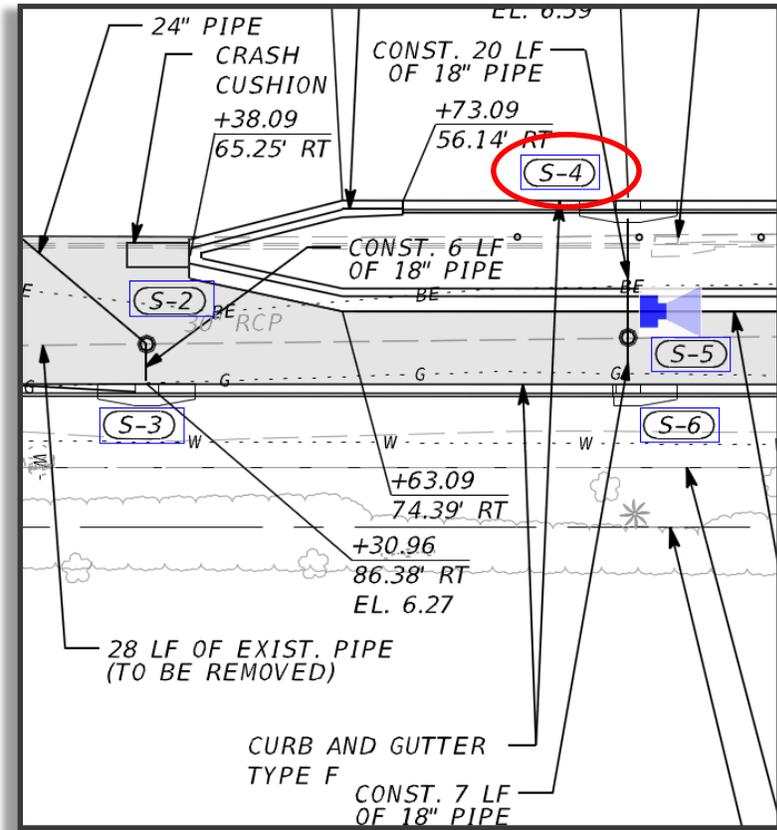


- Rapidly toggle between Plan view and Cross Section view.



Navigation – Drainage Structures

- Find the right drainage structure sheet, quickly.

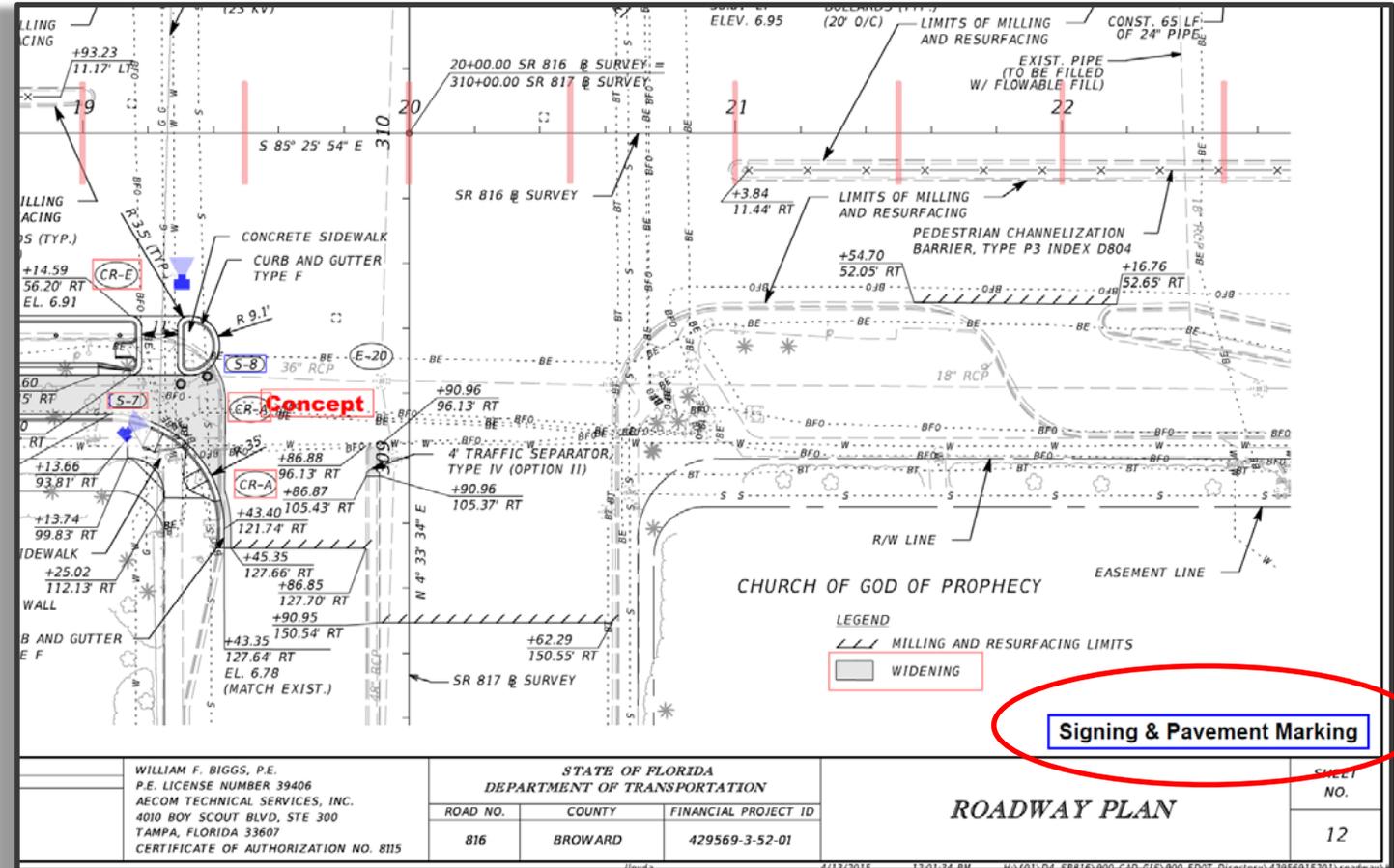


- Then navigate back to Plan view.



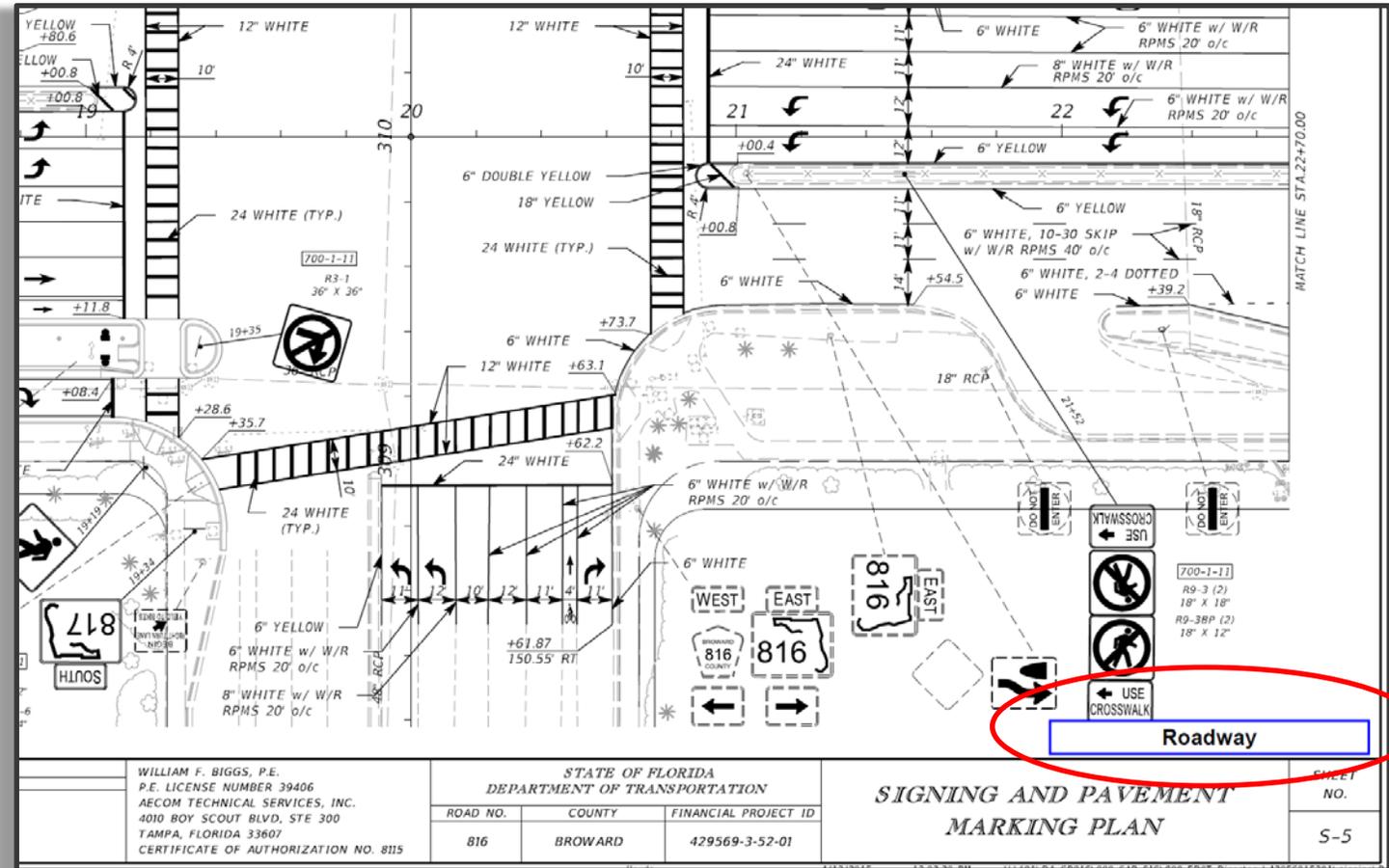
Intelligence – Component Comparison

- Compare plans components.



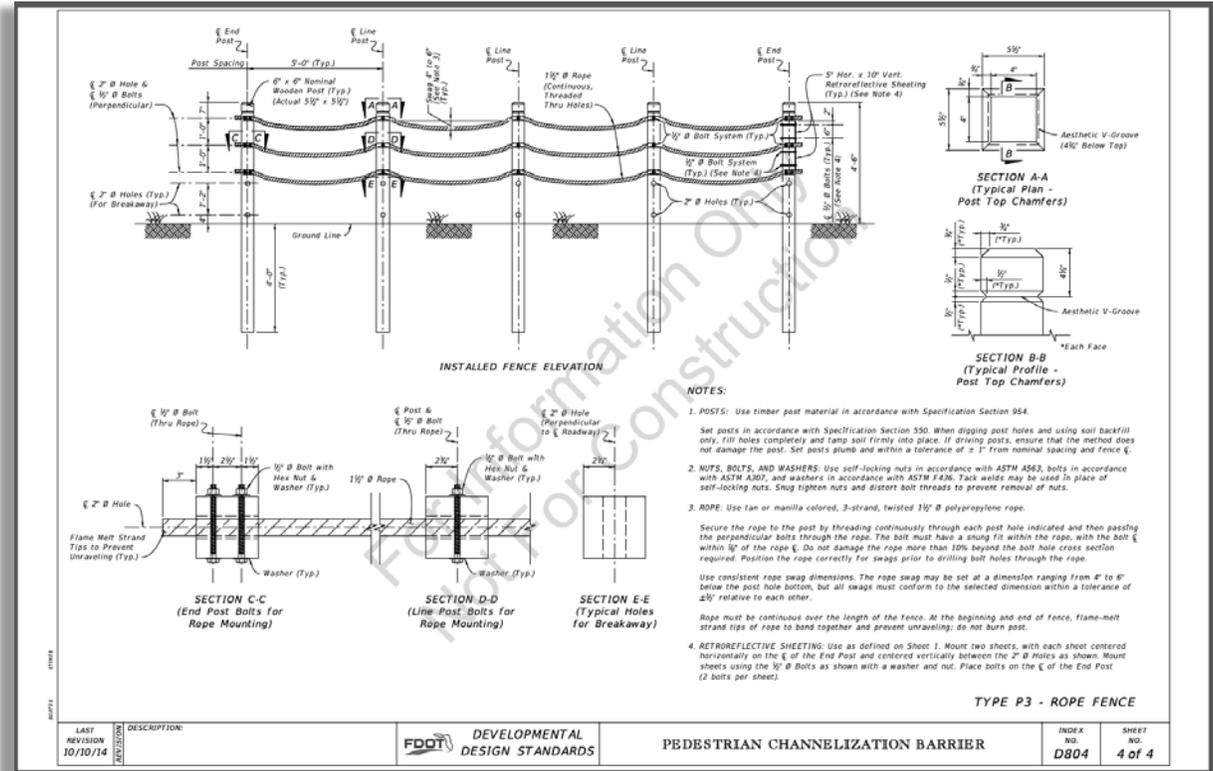
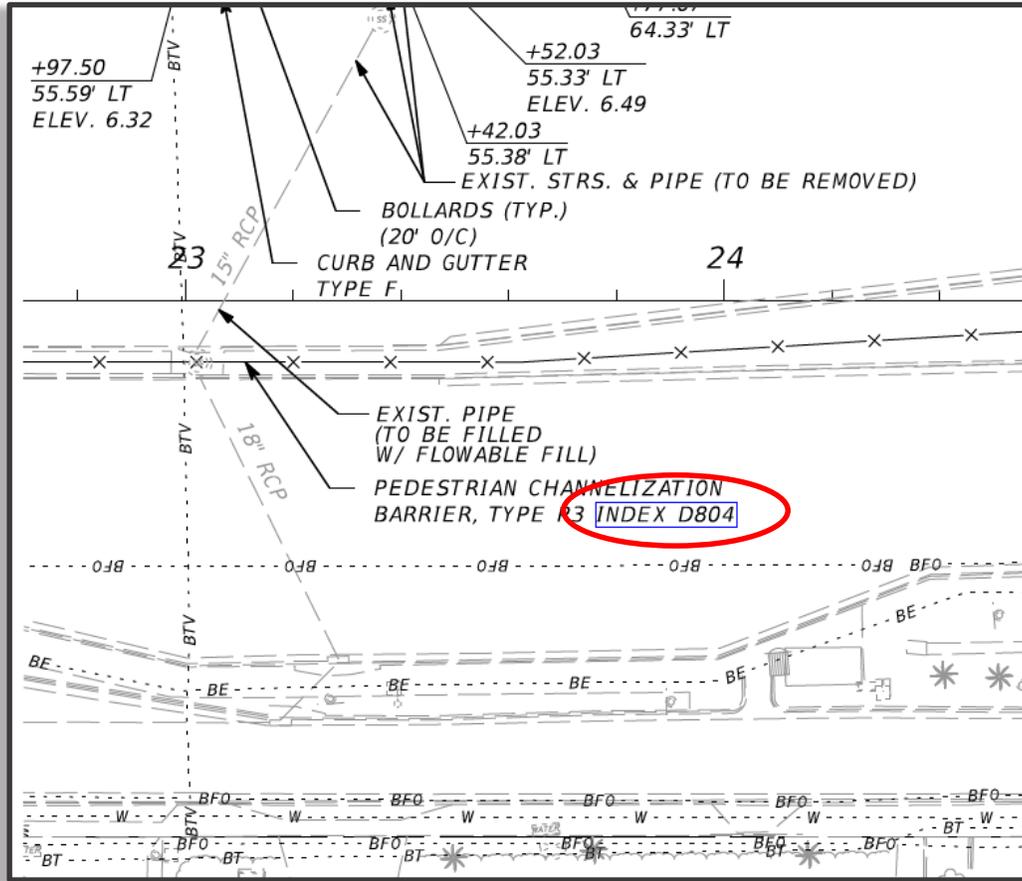
Intelligence – Component Comparison

- Compare plans components.



Intelligence – Design Standards

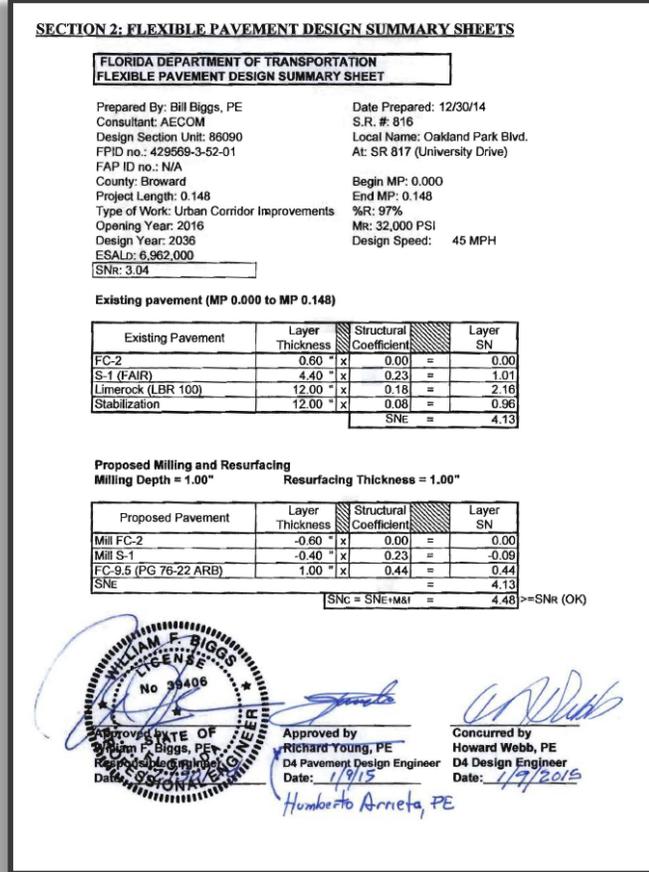
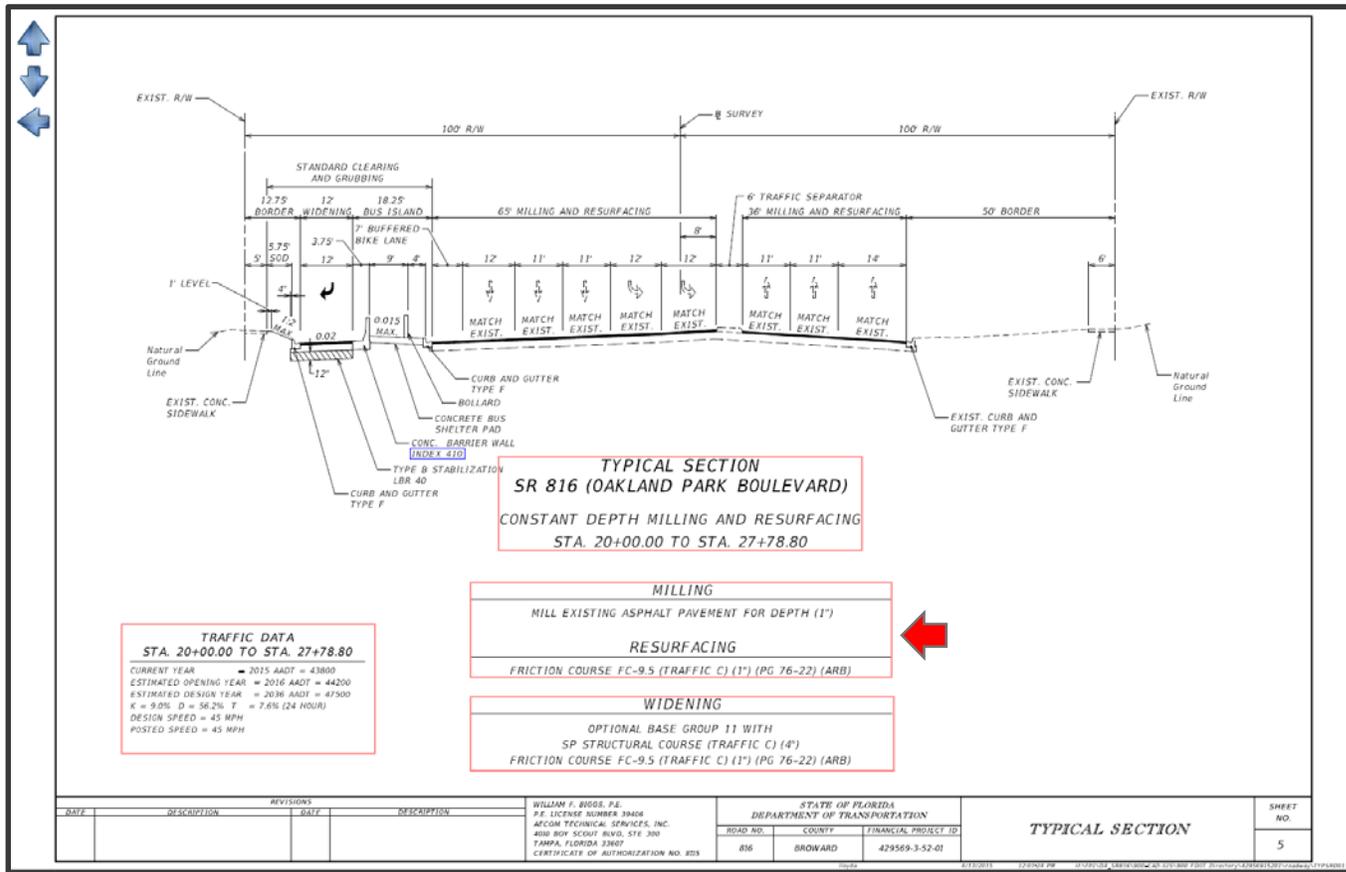
- Gain design insight.



Innovative Solutions for tomorrow's transportation needs



Intelligence – Approved Documents



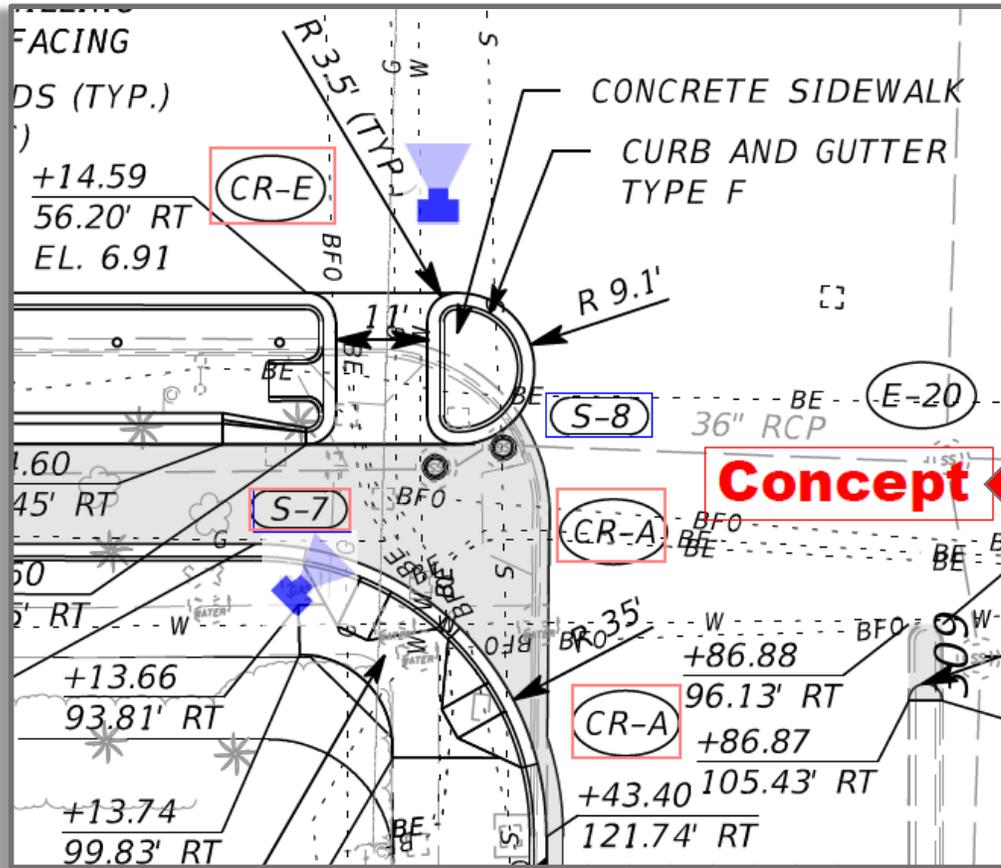
- Confirm conformance to approved documents.



Innovative Solutions for tomorrow's transportation needs

Intelligence – Design References

- Convey design intent with useful references.

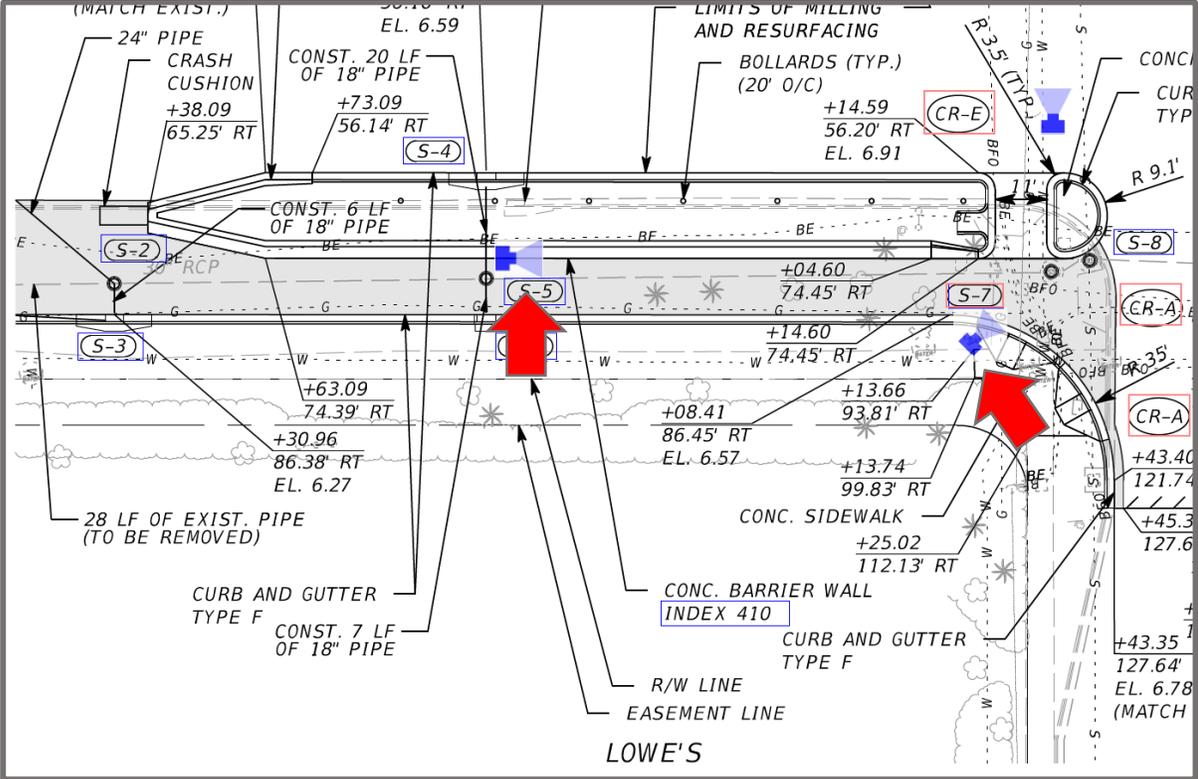


Concept ←



Intelligence – Photos

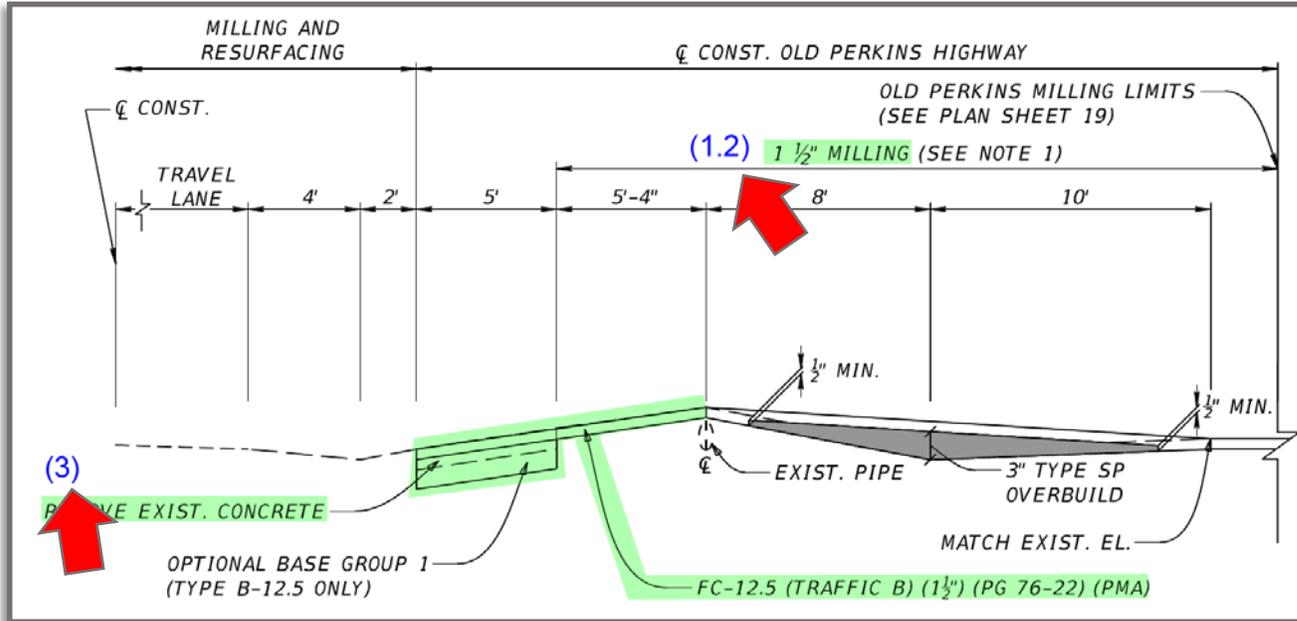
- Browsing site photos, made easy.



Innovative Solutions for tomorrow's transportation needs

Quality Assurance.

- Relevant plans changes are highlighted and linked to Electronic Review Comments.



ELECTRONIC REVIEW COMMENTS

FPID: 430680-1-52-81
 State Road No: 11
 Common Rdwy Name: State Road 11
 Mile Post: 0.198 to 1.680
 Section: 79090
 Submittal Description: Volusia county, Contract# C-0817

Project Name: SR 11 RRR
 Submittal Phase: INITIAL
 County: Volusia

ERC Comment No.	Reviewer Name	Ref/fig #	Area of Review	Comment	Response / Status
1	Tim		Construction, pavement Design	<p>1.) Can we simplify by using all PG 76-22 on the job? From the condition of the road it could justify. If the Contractor places Overbuild and Structure on the same day it is easier to run one mix rather than switching to a second and only having to purchase Truck and store one liquid.</p> <p>2.) Can we just have 12.5 for the detail for Old Perkins Highway, rather than 9.5 with Contractor's option to use 12.5? Much easier for plant operations rather than starting a new mix Lot and the rest of the project has 12.5.</p>	<p>Ryan Fibence, 11/14/2013: 1.) PG 76-22, PMA Binder, is not required for the Overbuild material, however, the note on the Typical Section Details, Sheet 6, states, "AT THE CONTRACTOR'S OPTION, (PG 76-22) (PMA) MAY BE UTILIZED FOR OVERBUILD." This will give the Contractor the option to use polymer binder for constructability purposes.</p> <p>2.) Agree. Existing asphalt depth is limited at Old Perkins Highway, however, to improve constructability, milling depth will be increased to 1.5" to allow for placement of FC-12.5. The Old Perkins Highway Regrading Detail will be revised accordingly.</p>
2	Chris		Structures	No Structures on the project, NO COMMENTS	<p>Ryan Fibence, 11/14/2013: Comment noted. Thank you for your review. Chris Dabson, 11/19/2013: Response Accepted & Comment Closed</p>
3	Victor	Sheet 5	Construction	<p>Old Perkins Hwy regrading detail. The existing 5' concrete apron is in very poor condition and will be difficult to be in to; the concrete should be removed entirely. Given this opportunity, the ditch may be reworked and the culvert should be set at a lower grade, removing the existing "hump."</p>	<p>Ryan Fibence, 11/26/2013: Agree. The plans have been revised to show removal of the existing concrete apron and replacement with asphalt pavement.</p> <p>Modification of the regrading detail of the existing ditch was considered during the design of the project, however, it was eliminated from the project scope to meet the practical design guidelines for RRR projects. Victor Lopezola, 1/30/14 Thank you</p>



Innovative Solutions for tomorrow's transportation needs

D5 Pilot: SR 11

Project Overview



- Pilot Study Conducted in 2013
- SR 11 - 1.5 mi. RRR Project
- PMs: Gene Varano (FDOT) & Ryan Florence (AECOM)
- Improvements included: Cross slope correction, minor widening, ADA Improvements, Traffic Monitoring Site upgrade.
- Major ERC Review Submittals: Phase II and Phase III



D5 Pilot: SR 11 - Findings

		Strongly Disagree		Strongly Agree	
1.	Enhanced Plans accelerated my understanding of the project.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
2.	Enhanced Plans reduced my review time. <i>If so, please provide an hour estimate of the overall time saved:</i> <input type="text"/>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
3.	Enhanced Plans increased the quality of my review.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
4.	It did not take much time to learn how to use Enhanced Plans.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
5.	The Enhanced Plans functioned intuitively.	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
6.	Enhanced Plans is a concept I would like to see used on future projects. <i>If not, please provide reasons why the Enhanced Plans concept is not recommended for future use:</i>	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
<input type="text"/>					
Select the Enhanced Plans features which you found to be the most useful (multiple selections can be made):					
7.	<input type="checkbox"/> Plans Navigation	<input type="checkbox"/> Photo Browser	<input type="checkbox"/> Component Comparison		
	<input type="checkbox"/> Web Map Links	<input type="checkbox"/> Design Calculation Links	<input type="checkbox"/> Supporting Design Documentation		
	<input type="checkbox"/> Cross Section Navigation	<input type="checkbox"/> ERC Comment Confirmation	<input type="checkbox"/> Estimates / Quantities Links		
	<input type="checkbox"/> FDOT Index/Specs Links	<input type="checkbox"/> Key Correspondence Links	<input type="checkbox"/> Scope Confirmation		
8.	Other comments/suggestions: <input type="text"/>				

- Review Survey had 8 questions
- The following statements were evaluated:
 - ❖ Enhanced Plans accelerated my understanding of the project.
 - ❖ Enhanced Plans increased the quality of my review.
 - ❖ It did not take much time to learn how to use Enhanced Plans.
 - ❖ The Enhanced Plans functioned intuitively.
 - ❖ Enhanced Plans is a concept I would like to see used on future projects.
- Asked about Most Useful Features



D5 Pilot: SR 11 - Findings

		Strongly Disagree		Strongly Agree	
1.	Enhanced Plans accelerated my understanding of the project.	1	2	3	4
2.	Enhanced Plans reduced my review time. <i>If so, please provide an hour estimate of the overall time saved:</i> <input type="text"/>	1	2	3	4
3.	Enhanced Plans increased the quality of my review.	1	2	3	4
4.	It did not take much time to learn how to use Enhanced Plans.	1	2	3	4
5.	The Enhanced Plans functioned intuitively.	1	2	3	4
6.	Enhanced Plans is a concept I would like to see used on future projects. <i>If not, please provide reasons why the Enhanced Plans concept is not recommended for future use:</i> <input type="text"/>	1	2	3	4
Select the Enhanced Plans features which you found to be the most useful (multiple selections can be made):					
7.	<input type="checkbox"/> Plans Navigation	<input type="checkbox"/> Photo Browser	<input type="checkbox"/> Component Comparison		
	<input type="checkbox"/> Web Map Links	<input type="checkbox"/> Design Calculation Links	<input type="checkbox"/> Supporting Design Documentation		
	<input type="checkbox"/> Cross Section Navigation	<input type="checkbox"/> ERC Comment Confirmation	<input type="checkbox"/> Estimates / Quantities Links		
	<input type="checkbox"/> FDOT Index/Specs Links	<input type="checkbox"/> Key Correspondence Links	<input type="checkbox"/> Scope Confirmation		
8.	Other comments/suggestions: <input type="text"/>				

- The evaluation scale was as follows:
 - ❖ 1 = Strongly Disagree
 - ❖ 2 = Disagree
 - ❖ 3 = Agree
 - ❖ 4 = Strongly Agree
- 10 ERC Reviewers Completed Pilot Surveys



D5 Pilot: SR 11 - Findings

Question No.	Question Topic	Average Evaluation Score
1	Accelerated Project Understanding	3.6
2	Reduced Review Time	3.5
3	Increased Quality of Review	3.5
4	Quick to Learn	3.5
5	Intuitive	3.3
6	Would like to see on future projects	3.5

- Reviewer feedback was positive
- Key Statement:
 - ❖ Enhanced Plans is a concept I would like to see used on future projects.
 - ❖ **Rated 3.5 out of 4**



D5 Pilot: SR 11 - Findings

Most Useful Feature	Total Votes
Plans Navigation	8
Photo Browser	8
Supporting Design Documentation	7
Cross Section Navigation	5
Web Map Links	4
Component Comparison	4
Key Correspondence Links	3
ERC Comment Confirmation	3
FDOT Index/Specs Links	2
Design Calculation Links	1

- Most useful features
 - ❖ Plans Navigation
 - ❖ Photo Browser
 - ❖ Supporting Design Documentation



D4 Pilot: SR 816 (Oakland Park Blvd.)

Project Overview



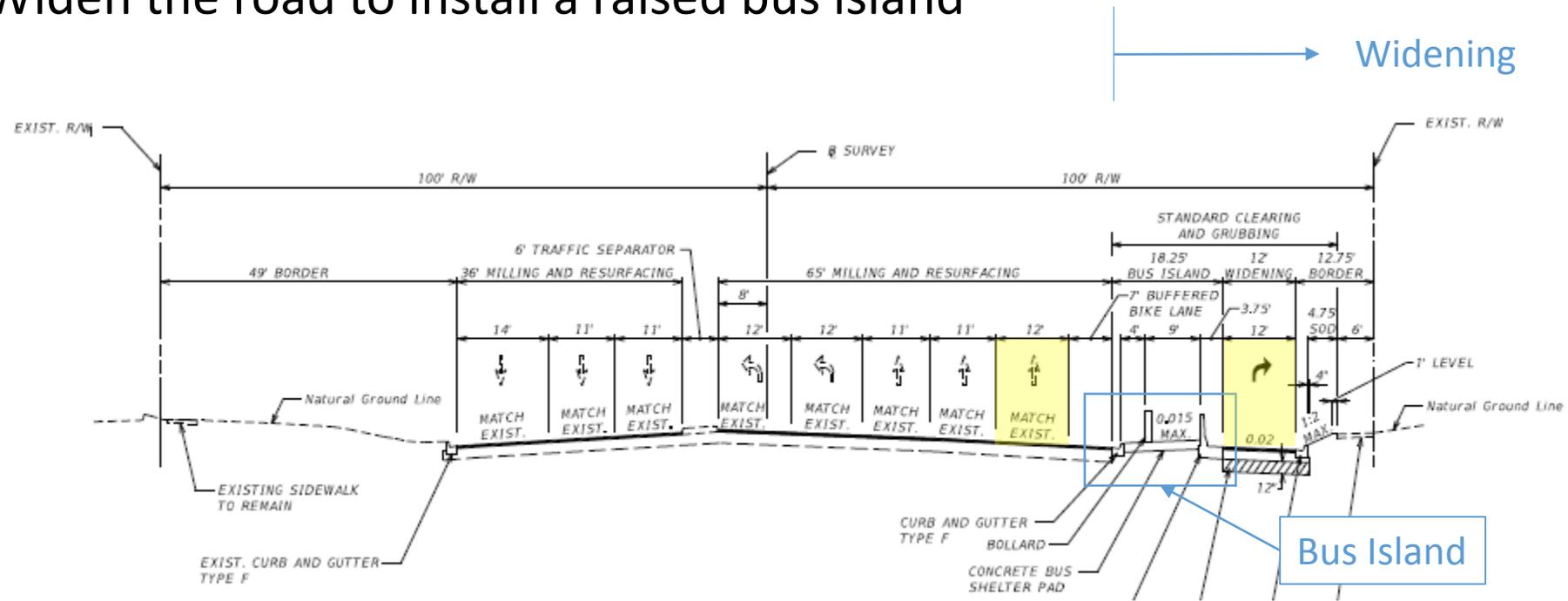
- Pilot Study - Underway
- SR 816 (Oakland Park Blvd.) at SR 817 (University Dr.)
- PMs: Lola Benitez (FDOT) & Bill Biggs (AECOM)
- Urban Transit Improvement Project
- 4 Plan Set Components: Roadway, Signing & Pavement Marking, Signalization, and Lighting



D4 Pilot: SR 816 (Oakland Park Blvd.)

Project Scope

- Widen the road to install a raised bus island



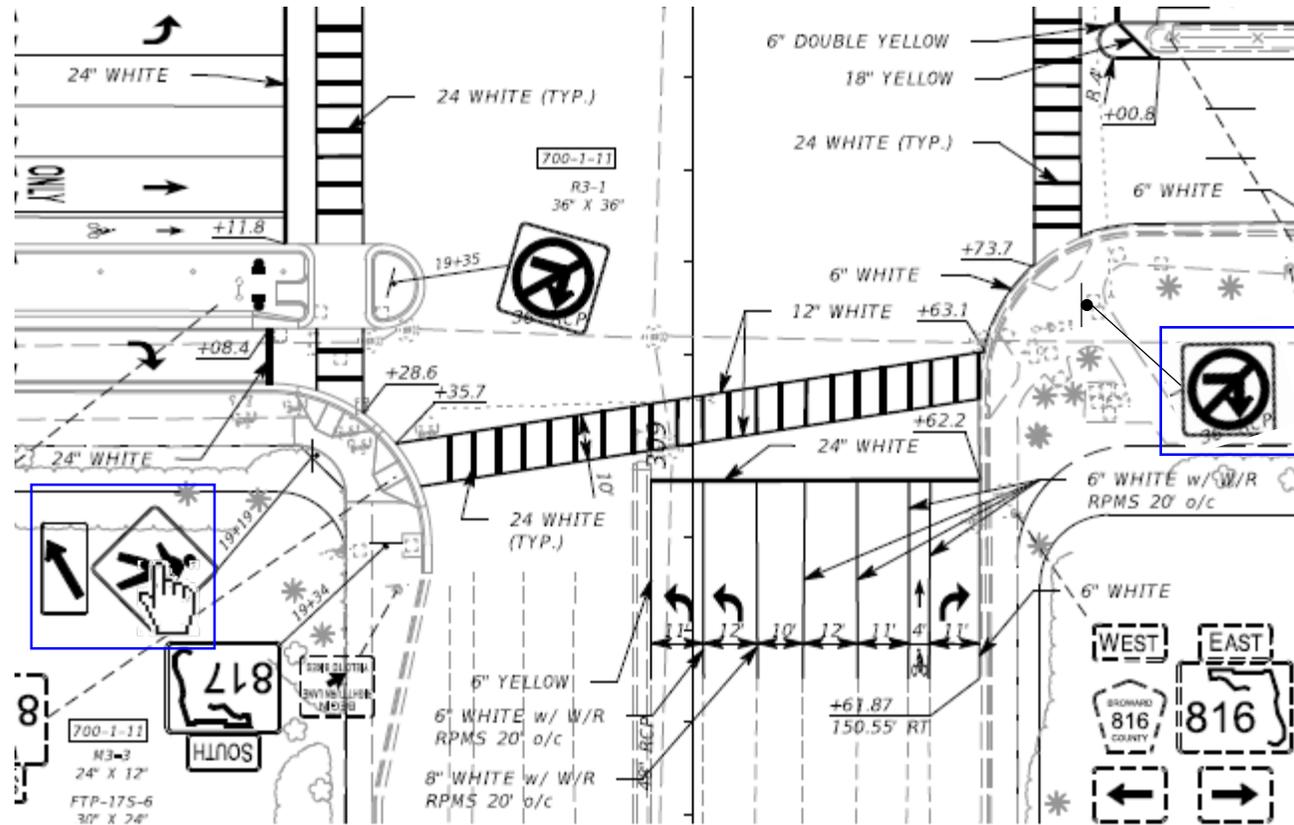
Agencies involved:

- FDOT
- MPO
- County
- Transit
- City

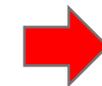


D4 Pilot: SR 816 (Oakland Park Blvd.)

Enhanced plans implementation – Signing and Pavement Marking plans



- Unique signs
- Illuminated signs



D4 Pilot: SR 806 (Atlantic Avenue)

Project Overview



- PMs: Brent Lee-Shue-Ling (FDOT) & Bruno Fiori (AECOM)
- Status – Just past Phase 1- Initial Engineering Submittal
- Key improvements: roadway widening and realignment, additional of turn lanes, addition of exclusive on-ramp lane, overhead signs and ITS upgrades
- 6 Plan Set Components: Roadway, Signing & Pavement Marking, Signalization, ITS, Lighting, and Landscaping



D4 Pilot: SR 806 (Atlantic Avenue)

COMPONENTS OF CONTRACT PLANS SET

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 434722-1-52-01
(FEDERAL FUNDS)
PALM BEACH COUNTY (93030)
STATE ROAD NO. 806

Enhanced Plans Review Survey

Atlantic Ave (State Road 806) Interchange Improvement Project
At I-95
Palm Beach County, Florida
D/W No. 434722-1-52-01

Statement	Strongly Disagree	Disagree	Agree	Strongly Agree
1. Enhanced Plans accelerated my understanding of the project.	1	2	3	4
2. Enhanced Plans reduced my review time. If so, please provide an hour estimate of the overall time saved.	1	2	3	4
3. Enhanced Plans increased the quality of my review.	1	2	3	4
4. It did not take much time to learn how to use Enhanced Plans.	1	2	3	4
5. The Enhanced Plans functioned intuitively.	1	2	3	4
6. Enhanced Plans is a concept I would like to see used on future projects. If not, please provide reasons why the Enhanced Plans concept is not recommended for future use.	1	2	3	4

Select the Enhanced Plans features which you found to be the most useful (multiple selections can be made):

<input checked="" type="checkbox"/> Plans Navigation	<input checked="" type="checkbox"/> Photo Browser	<input checked="" type="checkbox"/> Component Comparison
<input checked="" type="checkbox"/> View Map Links	<input checked="" type="checkbox"/> Design Calculation Links	<input checked="" type="checkbox"/> 3D/CAD Component Comparison
<input checked="" type="checkbox"/> Cross Section Navigation	<input checked="" type="checkbox"/> Supporting Design Documentation	<input checked="" type="checkbox"/> Estimate/Quantity Links
<input checked="" type="checkbox"/> FDOT Intros/Specs Links	<input checked="" type="checkbox"/> Key Correspondence Links	<input checked="" type="checkbox"/> Scope Confirmation

Other comments/suggestions:

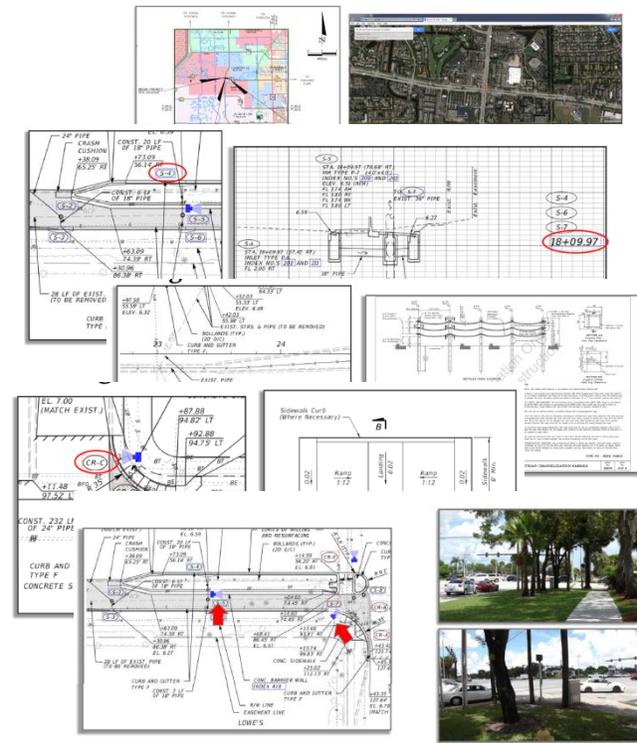
Thank You

Preliminary Findings

- Survey results from Phase I are pending
- Positive Feedback
 - ❖ Plans were easy to navigate & intuitive
 - ❖ Highly useful during a right-of-way acquisition meeting
- Challenges Noted
 - ❖ File size was large → Will investigate ways to consolidate files and reduce photos in Phase II
 - ❖ Some reviewers opened the PDF from the .zip, causing some links to be disabled → Additional instructions with graphics will be provided at Phase II for clarification



Enhanced Plans – Latest Techniques (Live Demonstration)



**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

CONTRACT PLANS

FINANCIAL PROJECT ID 429569-3-52-01
(FEDERAL FUNDS)
BROWARD COUNTY (86090)
STATE ROAD NO. 816

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
TRAFFIC AND SIGNALING PLANS
UTILITIES PLANS (NOT INCLUDED)

A DETAILED INDEX APPEARS ON THE REVISION SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A	NOTES TO REVIEWERS
2	SUMMARY SHEET
3	GENERAL NOTES
4	GENERAL NOTES
5	GENERAL NOTES
6	GENERAL NOTES
7	GENERAL NOTES
8	GENERAL NOTES
9	GENERAL NOTES
10	GENERAL NOTES
11	GENERAL NOTES
12	GENERAL NOTES
13	GENERAL NOTES
14	GENERAL NOTES
15	GENERAL NOTES
16	GENERAL NOTES
17	GENERAL NOTES
18	GENERAL NOTES
19	GENERAL NOTES
20	GENERAL NOTES
21	GENERAL NOTES
22	GENERAL NOTES
23	GENERAL NOTES
24	GENERAL NOTES
25	GENERAL NOTES
26	GENERAL NOTES
27	GENERAL NOTES
28	GENERAL NOTES
29	GENERAL NOTES
30	GENERAL NOTES
31	GENERAL NOTES

LIST OF REVISED INDEX DRAWINGS

INDEX NO.	SHEET NO.
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1

LENGTH OF PROJECT

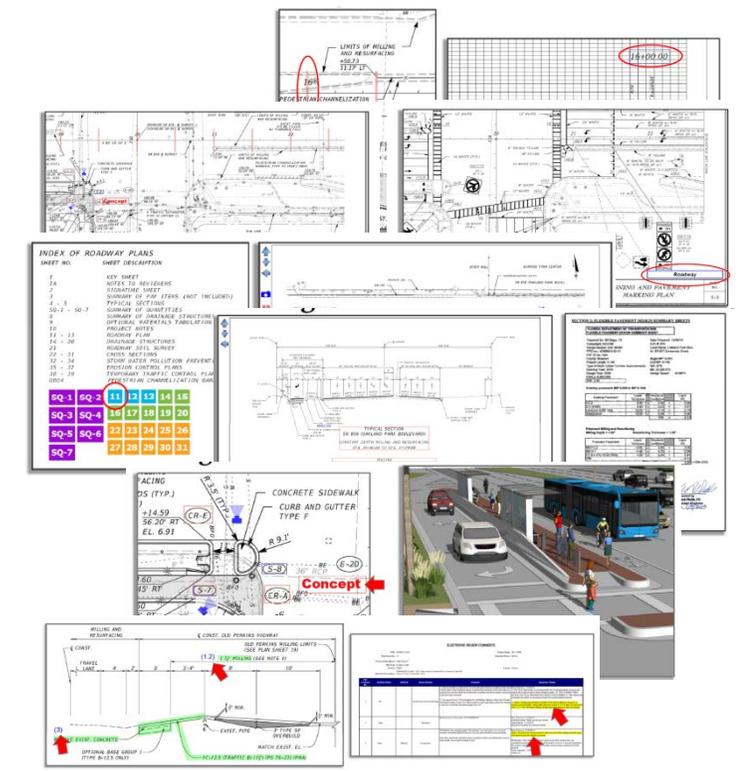
	LINEAR FEET	MILES
ROADWAY	1,215.73	0.23
BRIDGE	0.00	0.00
NET LENGTH OF PROJECT	1,215.73	0.23
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	1,215.73	0.23

KEY SHEET REVISIONS

SHEET NO.	DESCRIPTION
16	1

INITIAL SUBMITTAL
APRIL 13, 2015

PROJECT MANAGER: RONALD GENTILE, P.E.



Innovative Solutions for tomorrow's transportation needs

What's next?

- ❖ **Leveraging Technology** – Take full advantage of current technology
- ❖ **Focus on Quality** – Use integrated project information to enhance quality of plans
- ❖ **Future Projects** – D4 & D5 to support additional Enhanced Plans Projects
- ❖ **Community Synthesis** – Let us collaborate together to take the concept to new levels



Questions?

Morteza.Alian@dot.state.fl.us



Suzanne.Phillips@dot.state.fl.us



Ashraf.Elmaghraby@dot.state.fl.us



Auraliz.Benitez@dot.state.fl.us



Brent.Lee-Shue-Ling@dot.state.fl.us



Ryan.Florence@aecom.com



Innovative Solutions for tomorrow's transportation needs

Thank You.

Morteza Alian, P.E.
District 4
District Consultant Project Management Engineer



Suzanne Phillips, P.E.
District 5
District Consultant Project Management Engineer



Ashraf Elmaghraby, P.E.
District 5 Project Manager Supervisor



Lola Benitez, P.E.
District 4 Project Manager



Brent Lee-Shue-Ling, P.E.
District 4 Project Manager



Ryan Florence, P.E.
AECOM Project Manager



Innovative Solutions for tomorrow's transportation needs