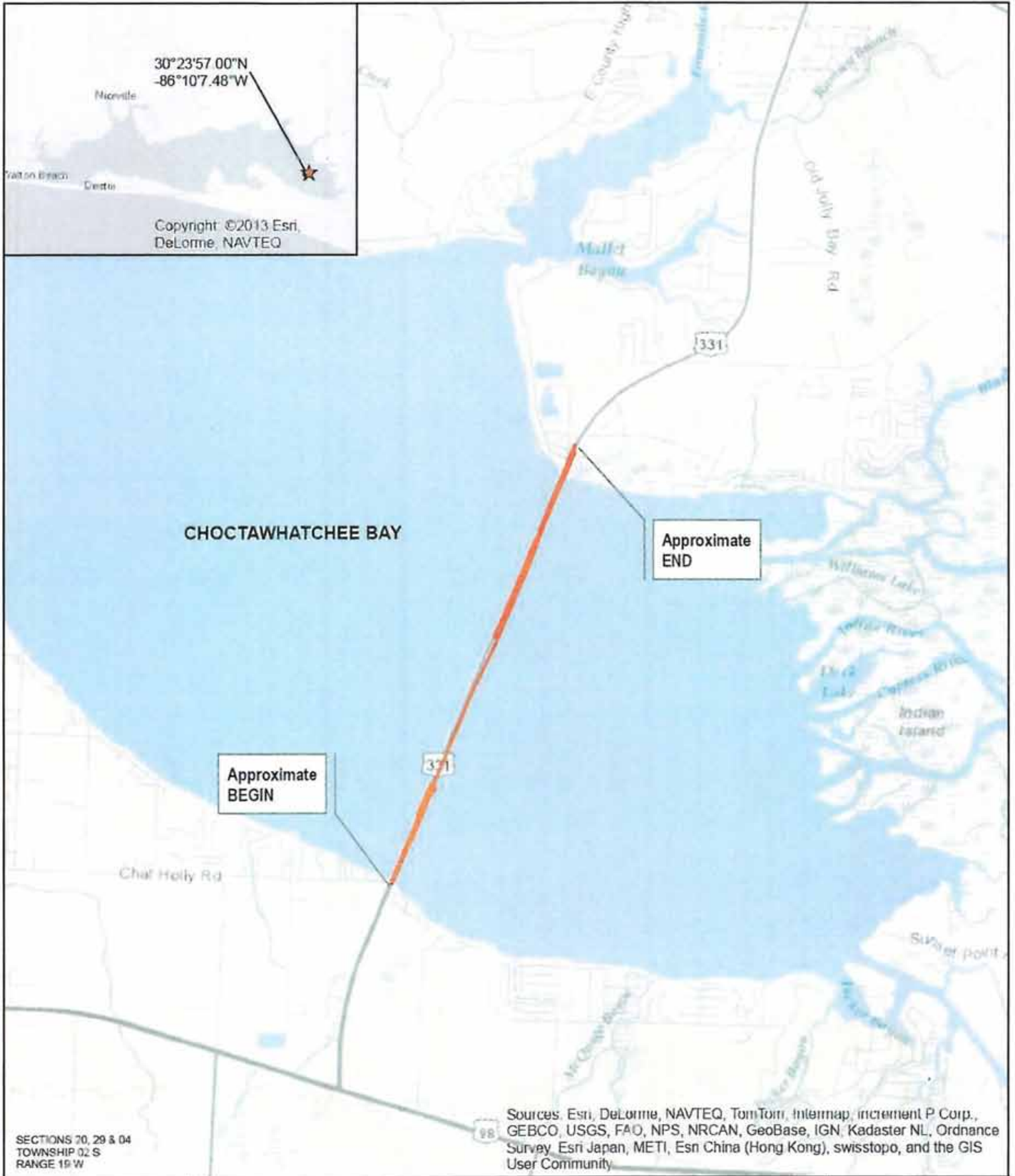


PERMIT NUMBER: SAJ-2013-02362 (SP-JML), FPID #: 220664-2-52-01  
PERMITTEE: Florida Department of Transportation – District 3  
PAGE 13 of 13

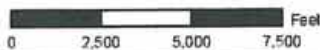
***Attachments to Department of the Army  
Permit Number SAJ-2013-02362 (SP-JML),***

1. PERMIT DRAWINGS: 34 pages, dated January 23, 2015.
2. WATER QUALITY CERTIFICATION: Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 18 pages.
3. MANATEE CONDITIONS: 2 pages, *Standard Manatee Conditions for In-Water Work – 2011*
4. SEA TURTLE – SAWFISH CONDITIONS: 1 page, *Sea Turtle and Smalltooth Sawfish Construction Conditions, revised March 23, 2006*
5. EASTERN INDIGO SNAKE STANDARD PROTECTION MEASURES: 3 Pages
6. AS-BUILT CERTIFICATION: 2 pages
7. MITIGATION PROCEDURES/PLAN/ASSOCIATED MITIGATED ACTIONS: 32 Pages



**Figure 1 - Location Map**

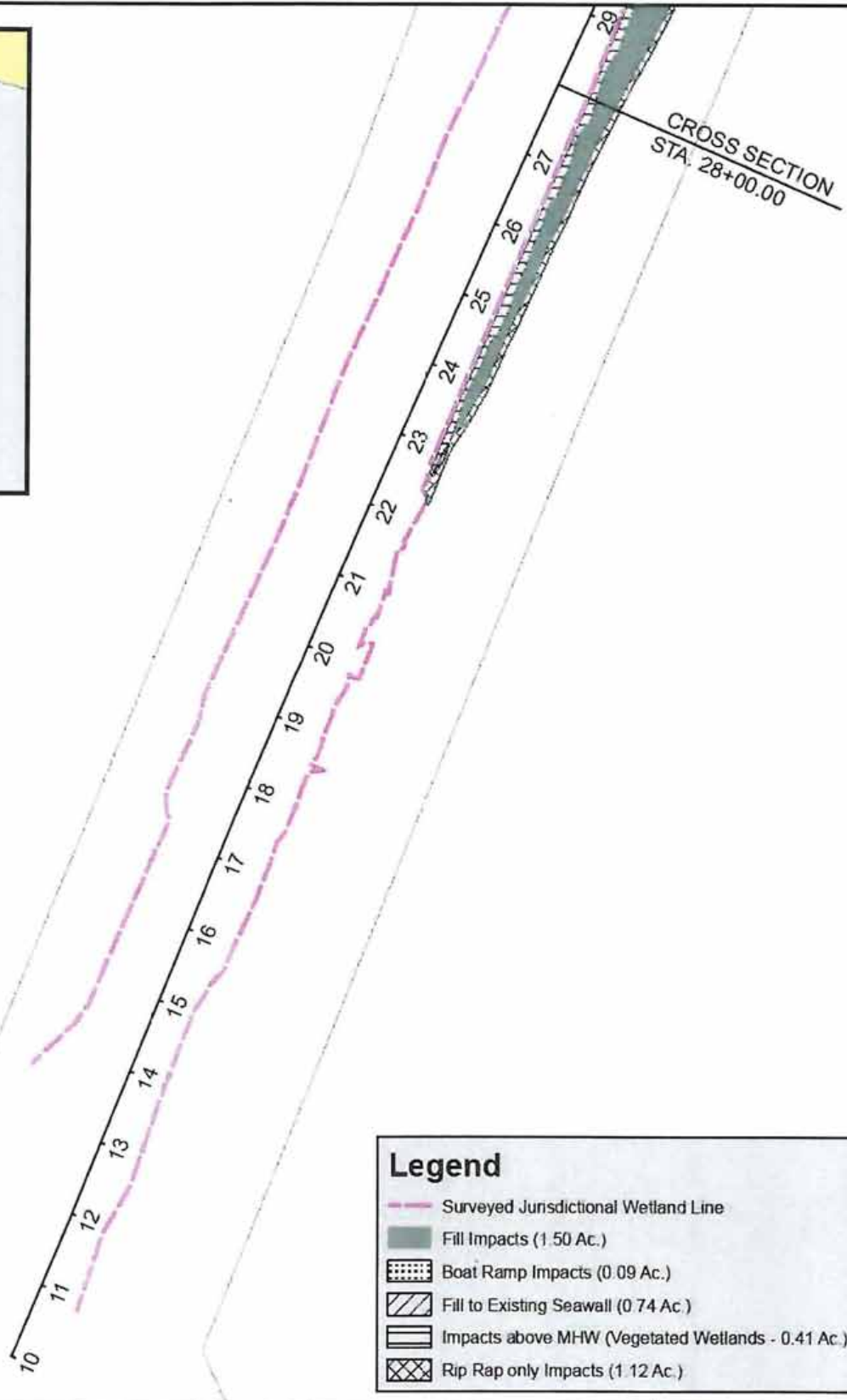
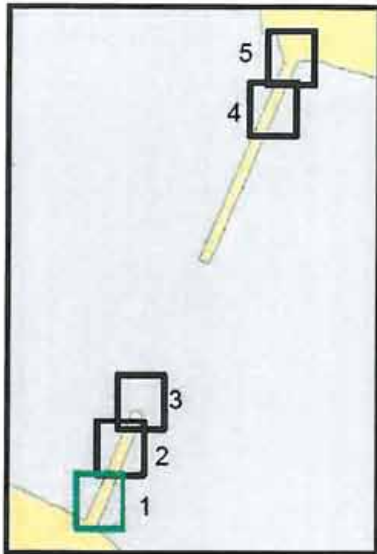
FPID #: 220664-2  
SR 83 (US 331) Choctawhatchee Bay Bridge  
Test Pile Program  
Walton County, Florida



Data Source:  
Design Extents from  
Parson Brinckerhoff

Coordinate System:  
NAD 1983 Florida  
State Plane North





**SCHEDA**  
**ECOLOGICAL**  
**ASSOCIATES**  
 www.scheda.com

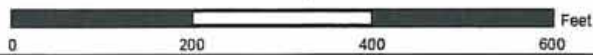
All data within this map are supplied as is without warranty. This product has not been reviewed for accuracy.

**Figure 6 - Wetland Impact Map**

Sheet 1 of 5

FPID #: 220664-2

SR 83 (US 33) Choctawhatchee Bay Bridge  
Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



US Army Corps of Engineers

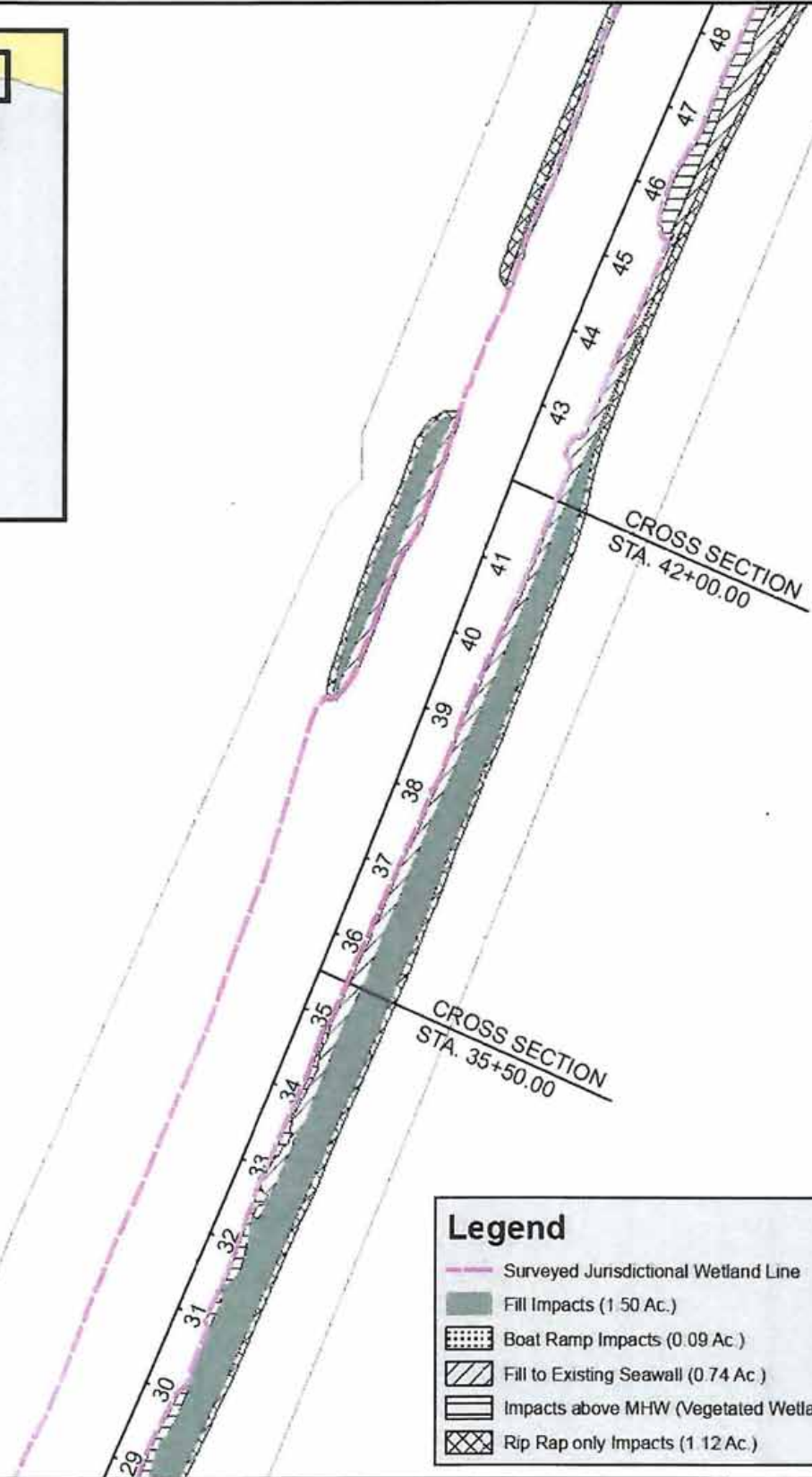
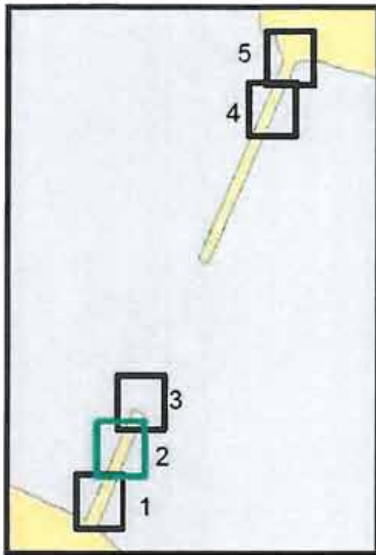
SAJ-2013-02362 (SP-JML)

FDOT - US-331 Bridge

Page #2 of 34 February 2, 2015

Permit Drawings

Attachment # 1

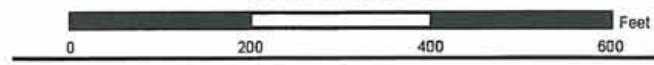


**Legend**

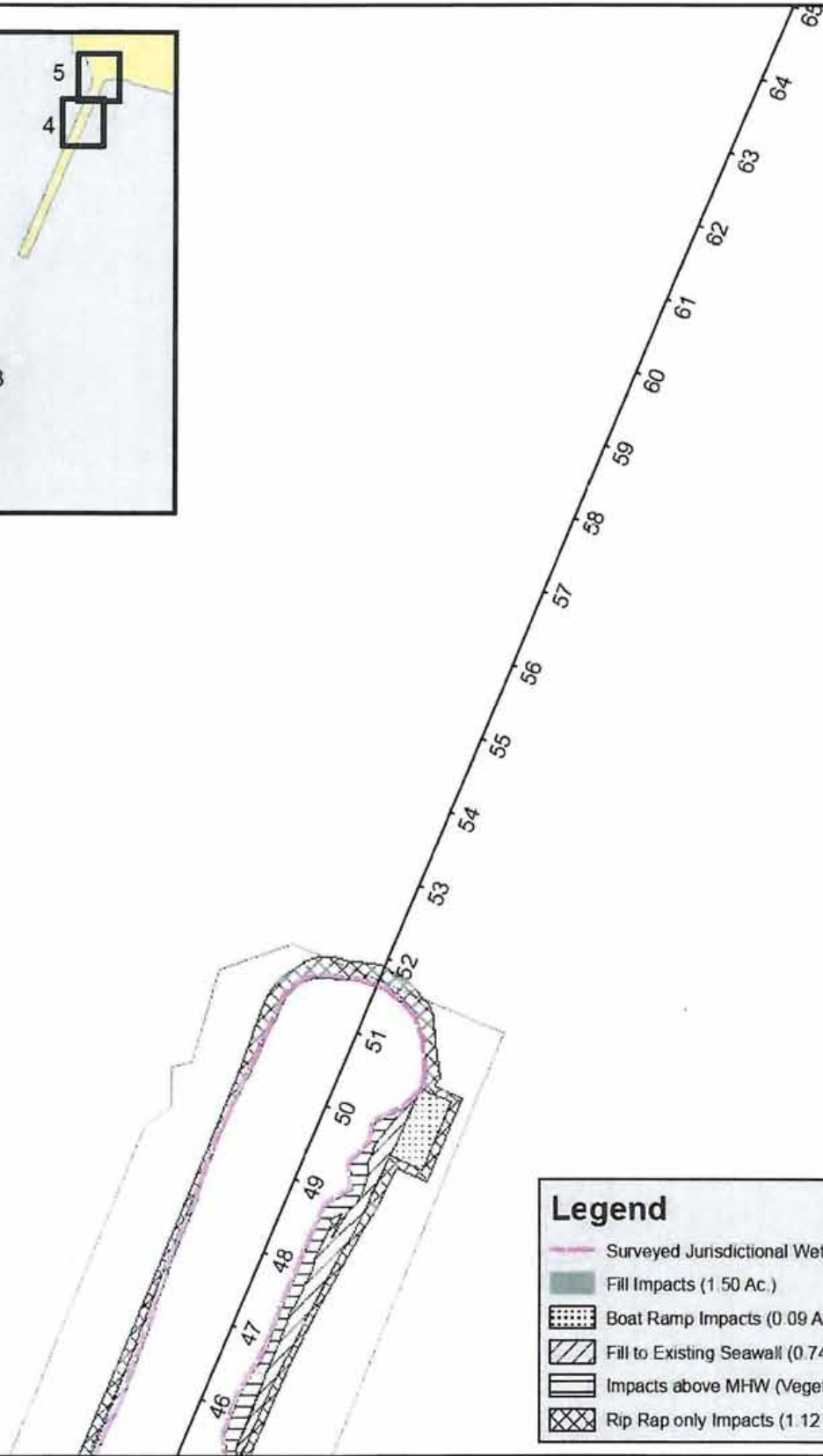
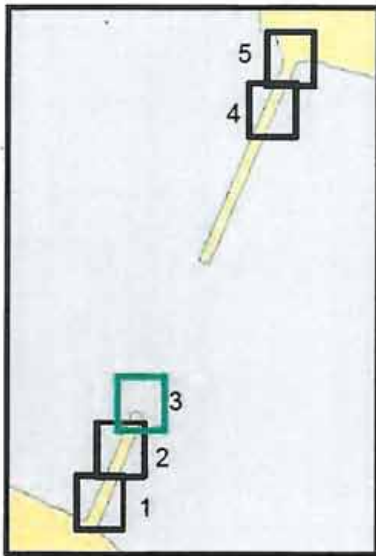
- Surveyed Jurisdictional Wetland Line
- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)
- Rip Rap only Impacts (1.12 Ac.)

**SCHEDA**  
**ECOLOGICAL**  
**ASSOCIATES**  
 www.scheda.com  
 All data within this map are supplied as is without warranty. This product has not been

**Figure 6 - Wetland Impact Map**  
 Sheet 2 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR  
 Coordinate System:  
 NAD 1983 Florida  
 State Plane North



**Legend**

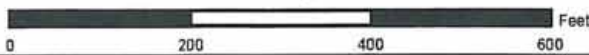
- Surveied Jurisdictional Wetland Line
- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)
- Rip Rap only Impacts (1.12 Ac.)



All data within this map are supplied as is, without warranty. This product has not been reviewed for accuracy or completeness.

**Figure 6 - Wetland Impact Map**

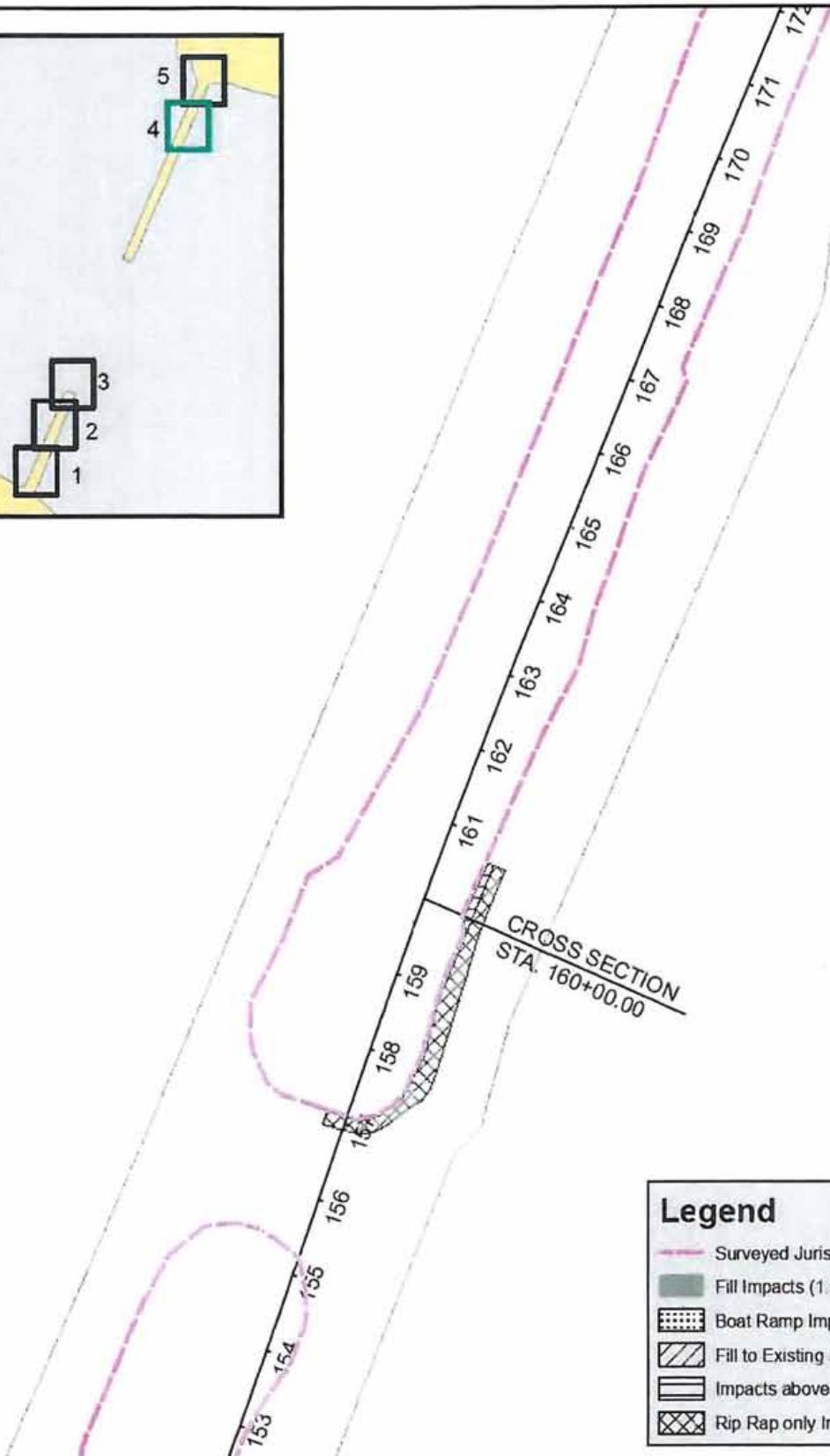
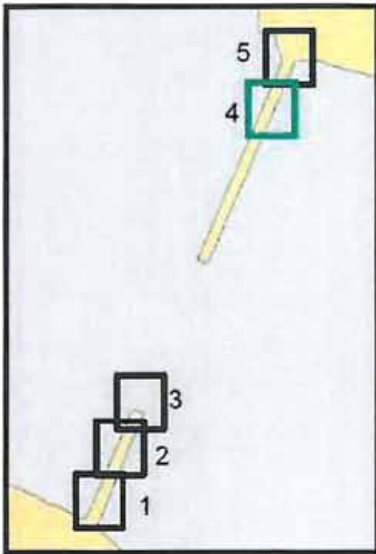
Sheet 3 of 5  
 FPID #: 220664-2  
 SR 93 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinates System:  
 NAD 1983 Florida  
 State Plane North





**Legend**

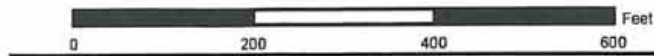
- Surveyed Jurisdictional Wetland Line
- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)
- Rip Rap only Impacts (1.12 Ac.)



All data within this map are supplied as is without warranty. This product has not been prepared for legal, engineering, or survey purposes.

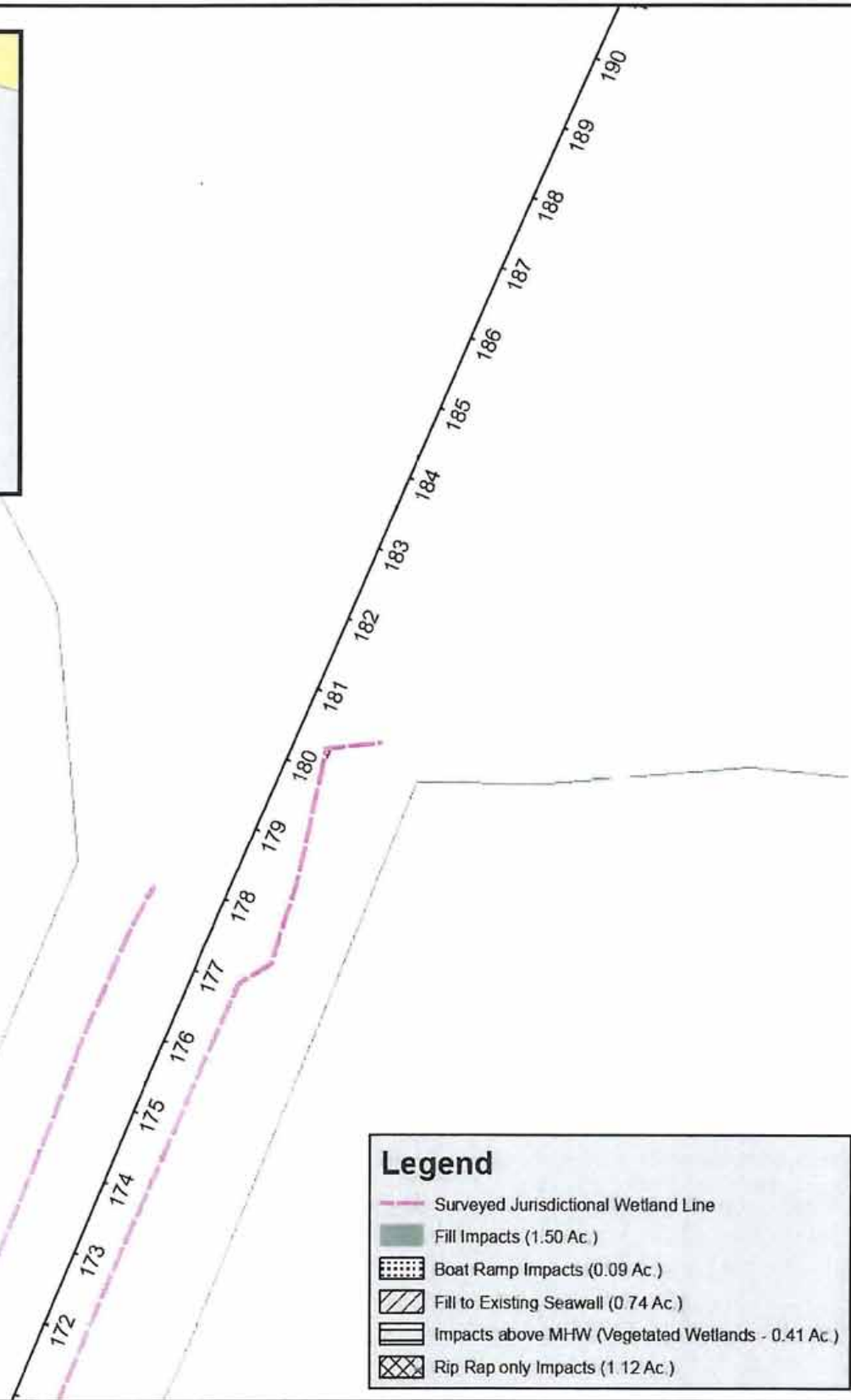
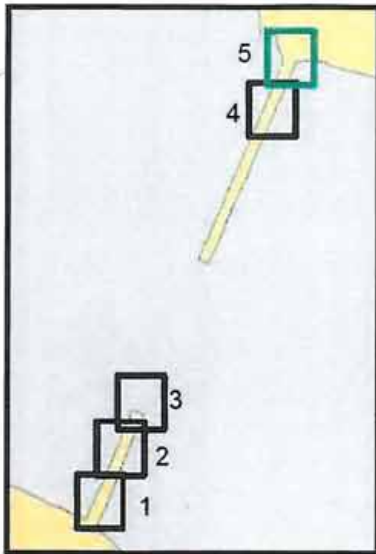
**Figure 6 - Wetland Impact Map**

Sheet 4 of 5  
 FPID #: 220664-2  
 SR 93 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source: -Parsons Brinckerhoff  
 Imagery Source: -2013 FDOT

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



**Legend**

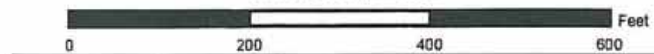
- Surveyed Jurisdictional Wetland Line
- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)
- Rip Rap only Impacts (1.12 Ac.)



All data within this map are supplied as is, without warranty. This product has not been prepared for legal, engineering, or survey purposes.

**Figure 6 - Wetland Impact Map**

Sheet 5 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida

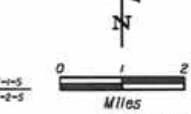
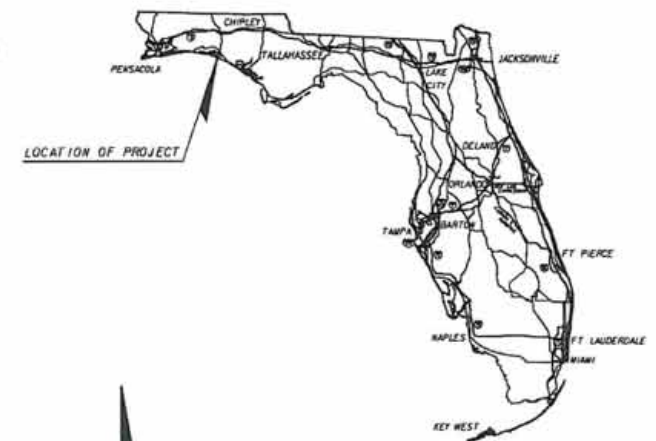


Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinate System:  
 NAD 1983 Florida  
 State Plane North

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
CONTRACT PLANS**

FINANCIAL PROJECT ID 220664-2-52-01  
WALTON COUNTY (60040)  
STATE ROAD NO. SR 83 (US 331)

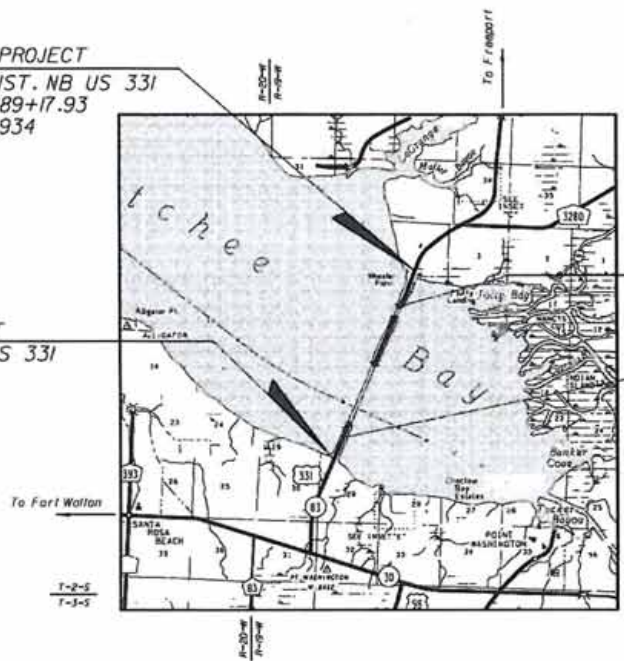


ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:  
  
Charles Rudle, PE  
Parsons Brinckerhoff  
2202 North West Shore Blvd, Suite 300  
Tampa, Florida 33607  
(813) 520-4394

PLANS PREPARED BY:  
Parsons Brinckerhoff, Inc.  
121 W. Trade Street, Suite 1950  
Charlotte, NC 28202  
(704) 342-0463  
Vendor No. W531569  
Cert. of Auth. No. 01462  
EOR Christopher D. Davis, P.E. No. 63070

**ERP PERMIT SUBMITTAL  
SUBMITTED 12/23/13**

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



**COMPONENTS OF CONTRACT PLANS SET**

- PLAN**
- 1-5 PAVEMENT MARKING PLANS
  - 6-10 IRRIGATION PLANS (FUTURE-SUBMITTAL)
  - 11-15 TRANSPORTATION SYSTEMS PLANS (FUTURE-SUBMITTAL)
  - 16-20 VESSEL PLANS (FUTURE-SUBMITTAL)
  - 21-25 SAFE PLANS (FUTURE-SUBMITTAL)
  - 26-30 VERTICAL PLANS (FUTURE-SUBMITTAL)
  - 31-35 FUTURE PLANS (FUTURE-SUBMITTAL)

INDEXED INDEX APPEARS ON THE  
FIRST SHEET OF EACH COMPONENT

**CONTENTS OF ROADWAY PLANS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2-5	NOTES TO REVIEWERS
6-14	DRAINAGE MAP
15	TYPICAL SECTIONS
16	SUMMARY OF QUANTITIES
17-19	PROJECT CONTROL POINTS
20-22	CURVE & COORDINATE DATA
23-25	PROJECT LAYOUT
26	GENERAL NOTES
27-30	PLAN SHEETS
31-33	PROFILE SHEETS
34-36	DRAINAGE STRUCTURES
37	DRAINAGE DETAILS
38-40	POND DETAILS
41	POND SOIL SURVEY
42	REPORT OF POND CORE BORINGS
43	ROADWAY SOIL SURVEY
44	REPORT OF ANKER BORINGS
45-47	CROSS SECTIONS
48-50	SOIL MIXING PLANS
51-53	SWPPP
54-56	TEMPORARY TRAFFIC CONTROL PLANS (PHASE 1 & 2 ONLY)
57-59	UTILITY ADJUSTMENTS

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2013,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2013,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-13  
  
For Design Standards Modifications also see  
"Design Standards" at the following web site:  
<http://www.dot.state.fl.us/redesign/>

REVISIONS

PROJECT LENGTH IS BASED ON @ OF CONSTRUCTION

	LINEAR FEET	MILES
ROADWAY	5862.00	1.110
BRIDGES	12055.61	2.283
<b>NET LENGTH OF PROJECT</b>	<b>17917.61</b>	<b>3.393</b>
EXCEPTIONS		
<b>GROSS LENGTH OF PROJECT</b>	<b>17917.61</b>	<b>3.393</b>

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS  
ENGINEER OF RECORD: CHRISTOPHER D DAVIS

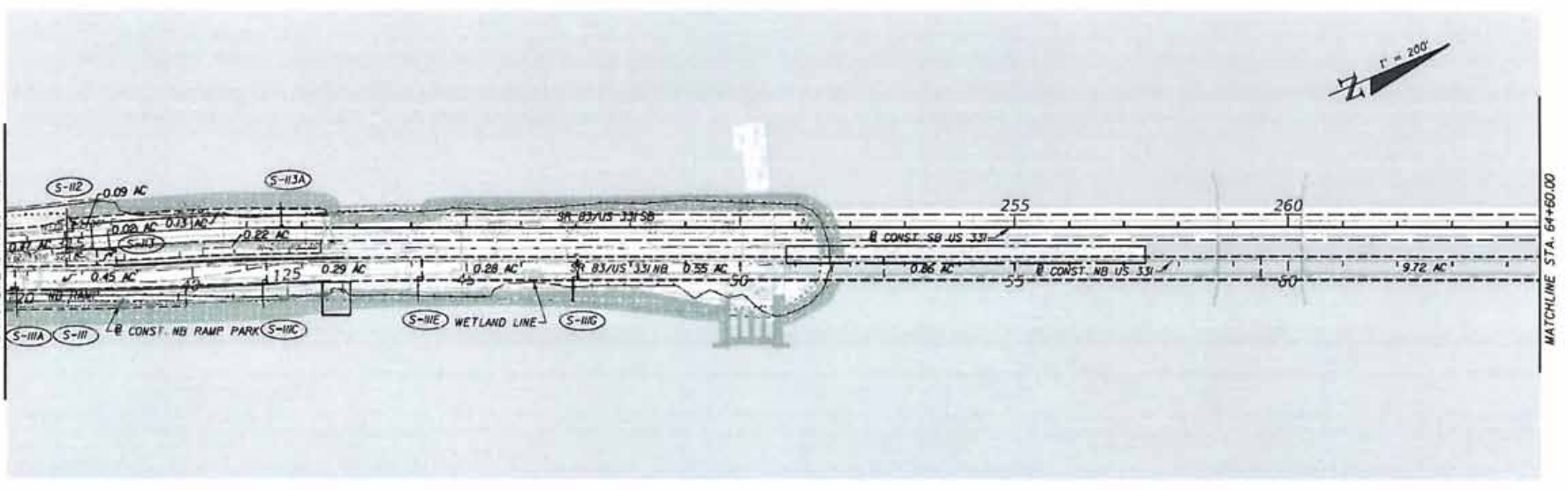
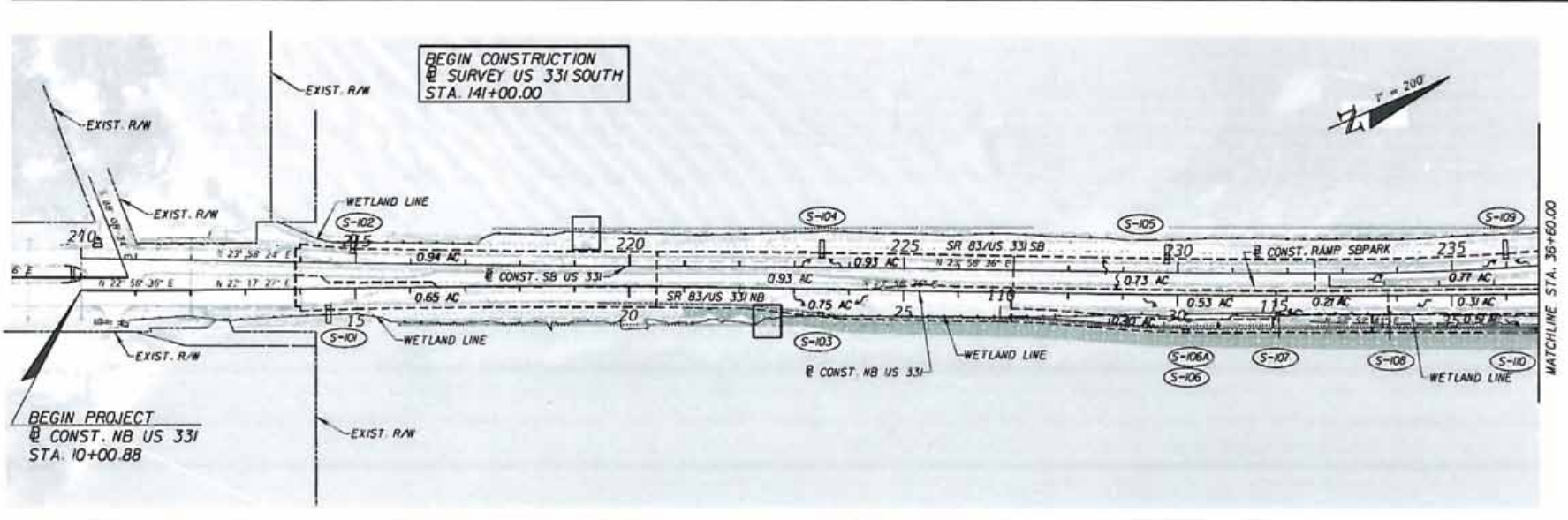
P.E. NO. 063070

FISCAL YEAR	SHEET NO.
13	1

FDOT PROJECT MANAGER: Kerrie Harrell, P.E.

S.R. 83 From Chat Hisey Rd to July Bay Rd

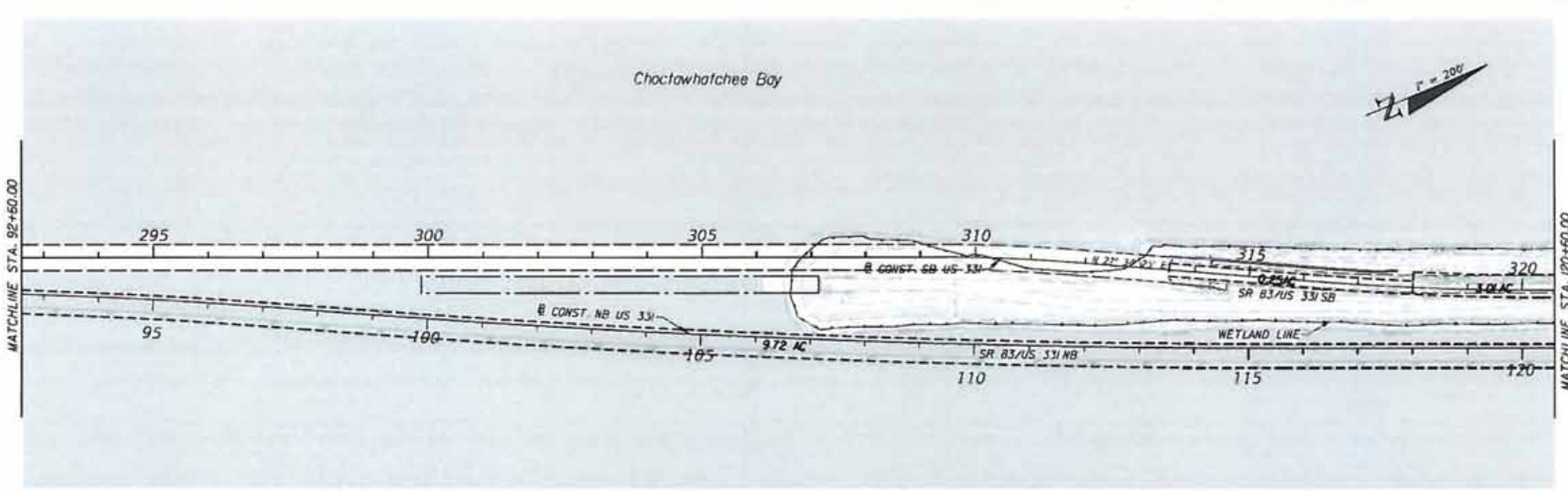
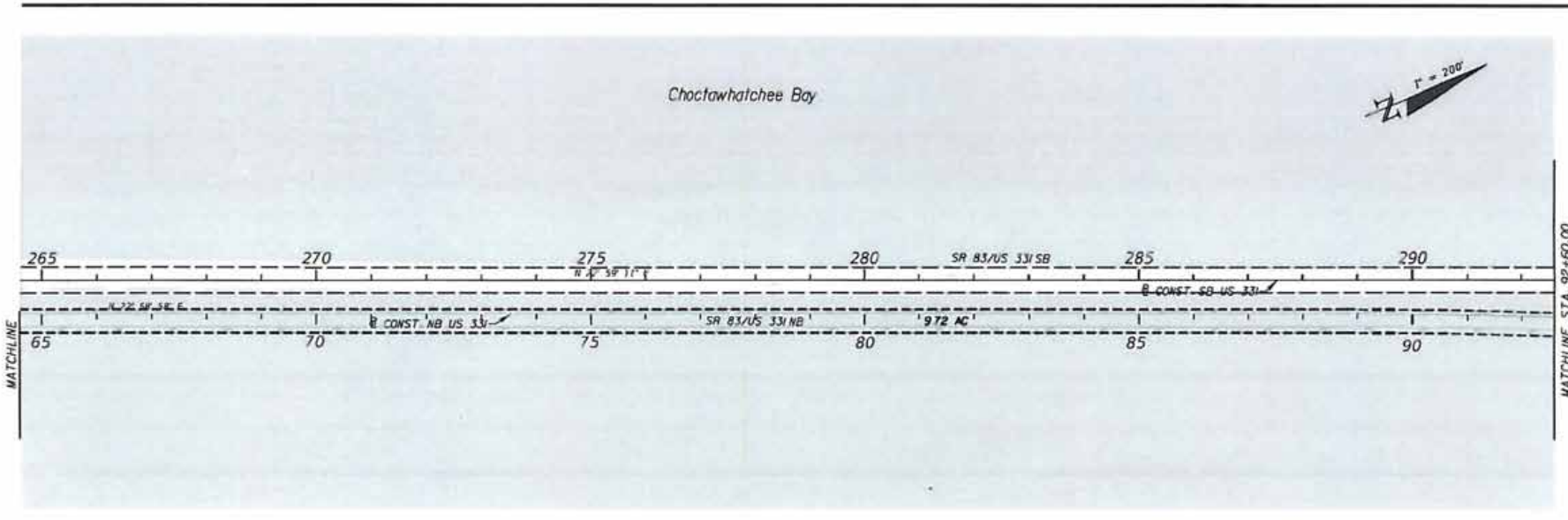




REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

<b>PARSONS BRINCKERHOFF</b> <small>2002 North West Shore Blvd, Suite 300 Tampa, Florida 33607 0000-140-0000 Corporation of North Carolina EDP Andy Greenwood, P.E., No. 5280</small>			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		<b>DRAINAGE MAP (1)</b>	SHEET NO. <b>2</b>
ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
83	WALTON	220664-2-52-01				



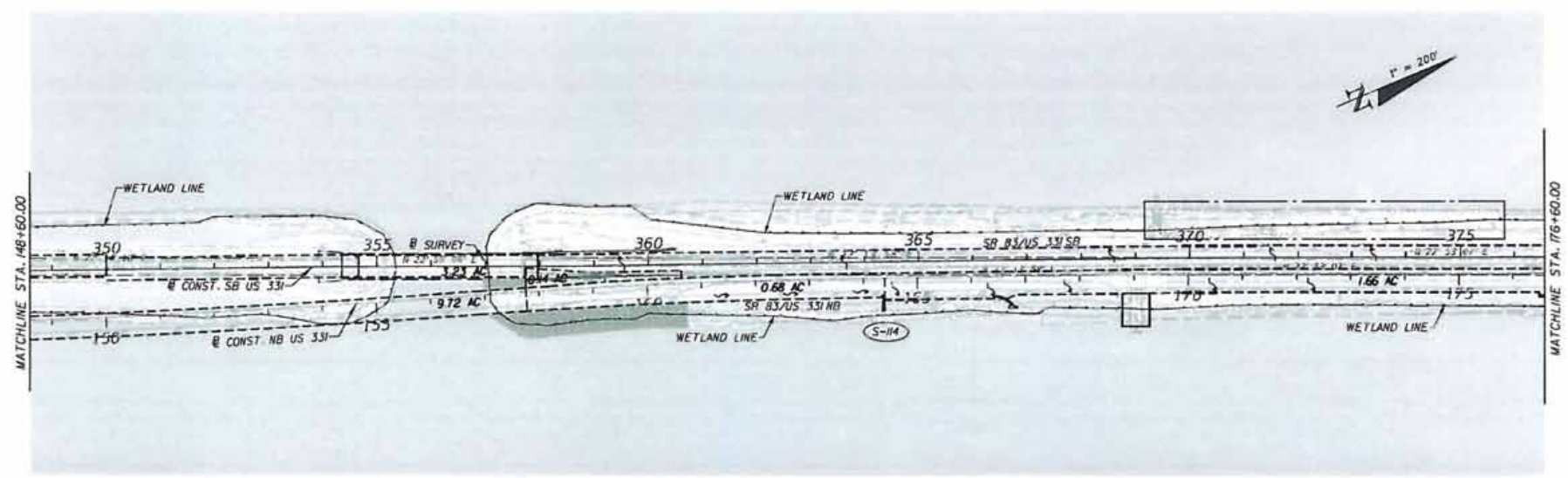
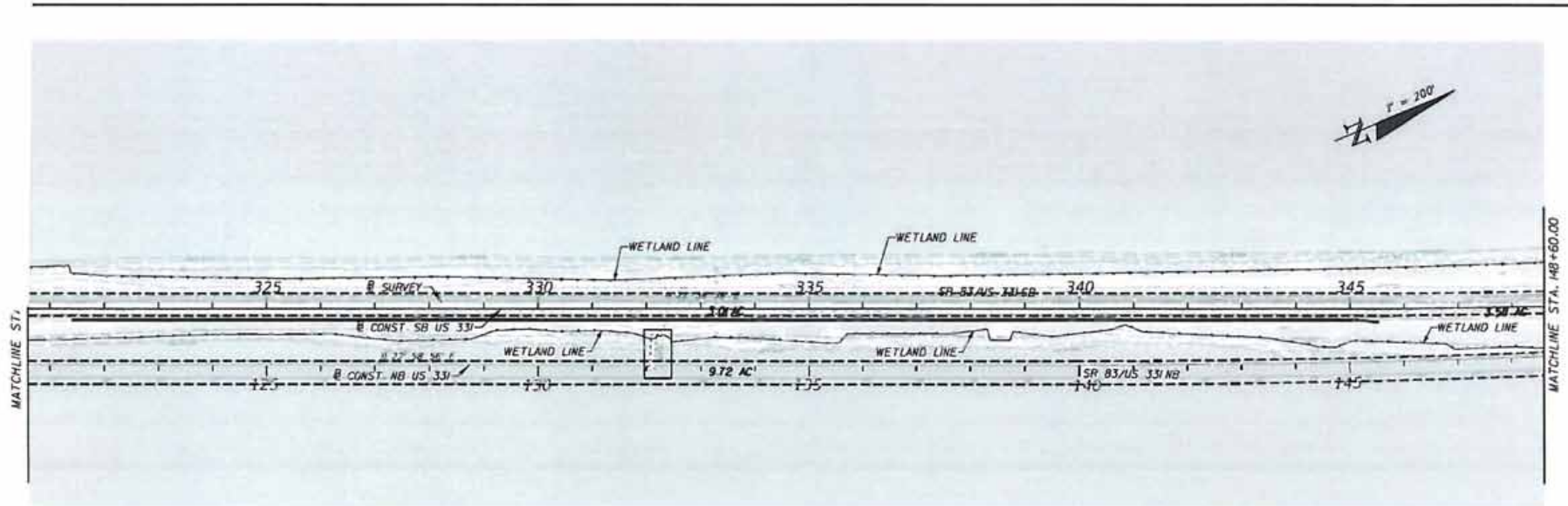
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**PARSONS BRINCKERHOFF**  
 2202 North West Shores Blvd, Suite 300  
 Tampa, Florida 33607  
 (813) 542-0468  
 Cert. of Auth. No. DW02  
 EDR: Andy Greenwood, P.E., No. 5360

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
83	WALTON	220664-2-52-01

**DRAINAGE MAP (2)**

SHEET NO.
3



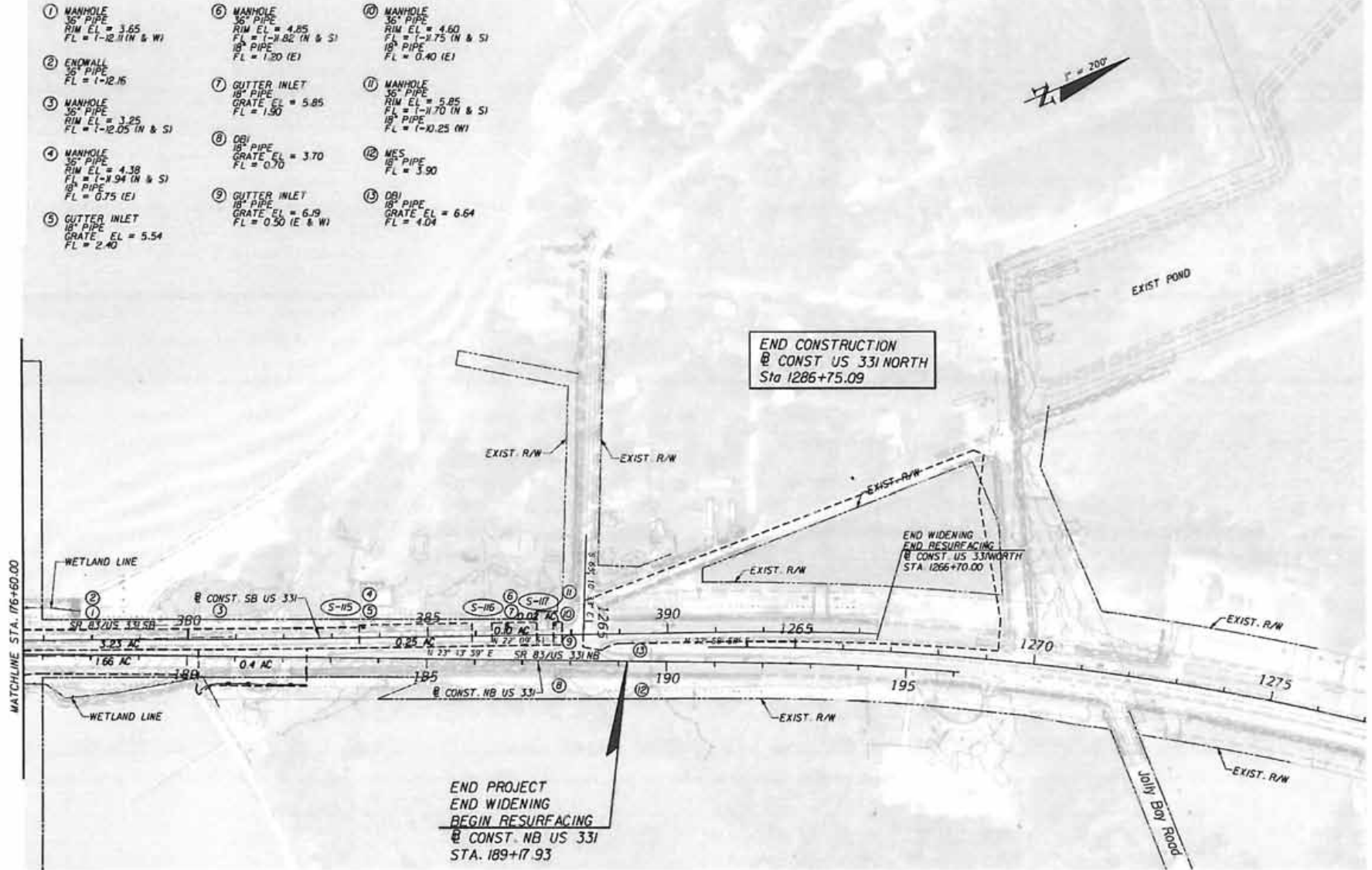
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

**PARSONS BRINCKERHOFF**  
 2202 West Wall Street, Suite 300  
 Tampa, Florida 33607  
 (813) 289-8400  
 Cert. of Auth. No. 0462  
 ECR: Andy Greenleaf, P.E., No. 5380

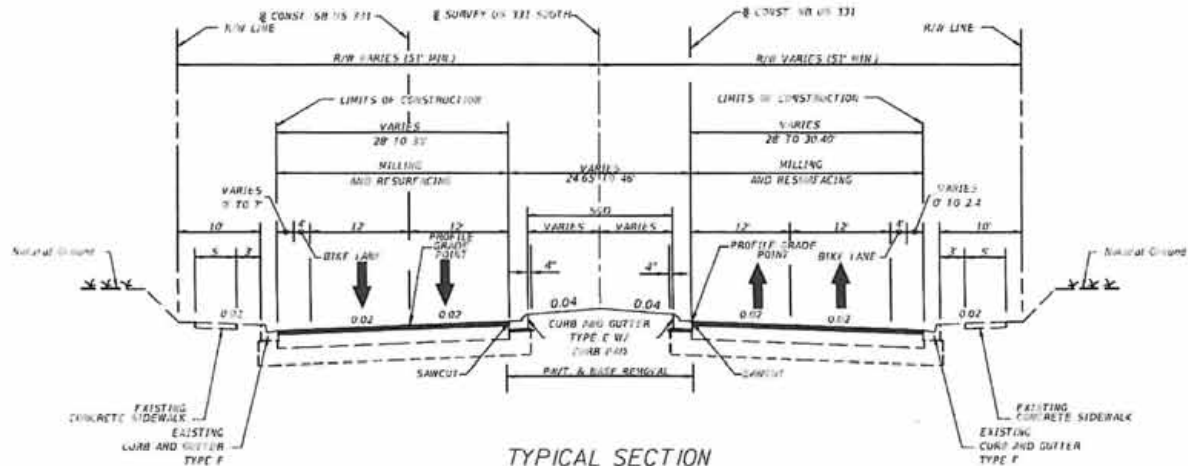
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO	COUNTY	FINANCIAL PROJECT ID
83	WALTON	220664-2-52-01

**DRAINAGE MAP (3)**

SHEET NO
4



REVISIONS				<b>PARSONS BRINCKERHOFF</b> <small>2002 North West Shore Blvd, Suite 300          Tampa, Florida 33607          (704) 240-0800          Cert. of Auth. No. CHS2          EDP# Amb Greenwood, P.E. No. 5281</small>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>DRAINAGE MAP (A)</b>	SHEET NO. <b>5</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				83	WALTON	220664-2-52-01			



**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 10+00.88 TO STA. 14+01.22 (@ CONST. NB US 331)**  
**STA. 209+99.94 TO STA. 213+98.64 (@ CONST. SB US 331)**

**MILLING**  
 MILL EXISTING ASPHALT PAVEMENT 1" AVG. DEPTH  
**RESURFACING**  
 FRICTION COURSE FC-9.3 (1") (PG 76-22) (MATCHES EXIST PAVT)

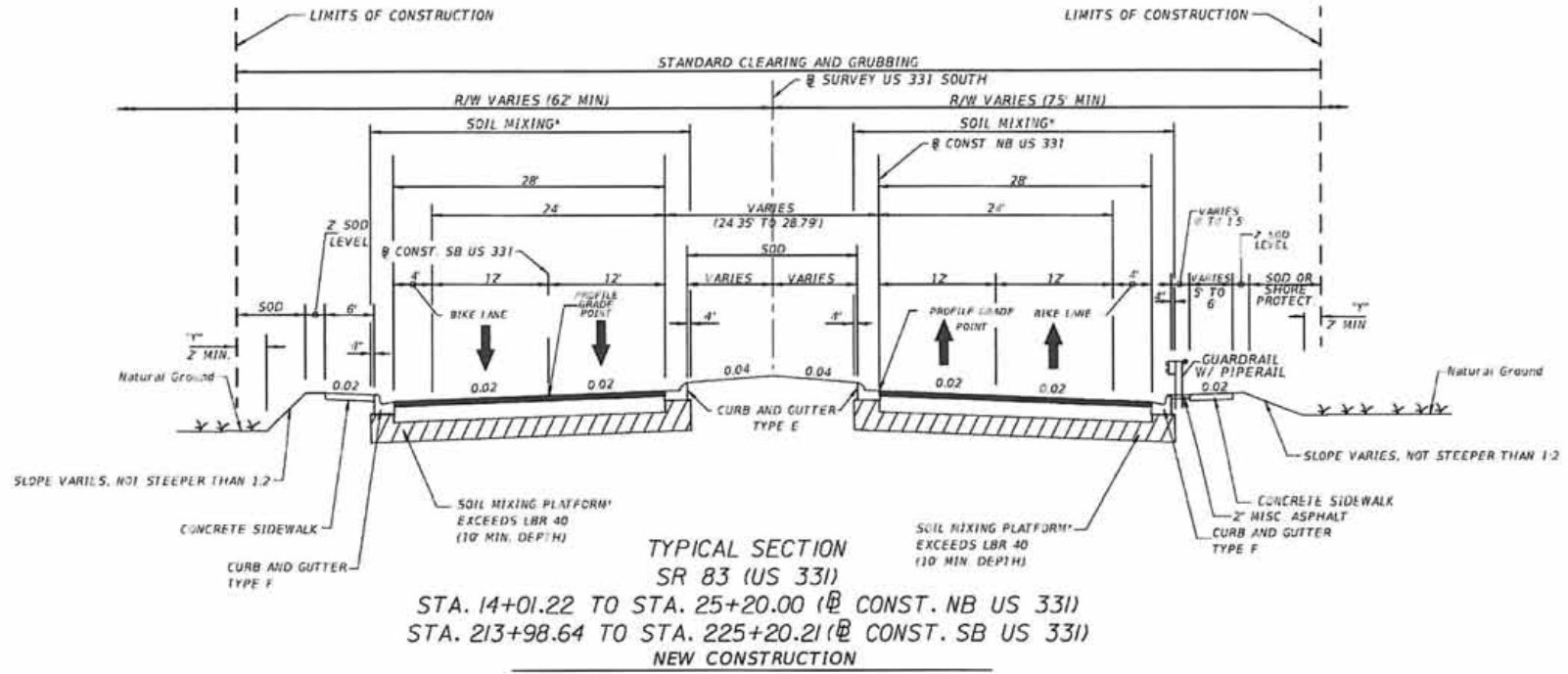
**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 17800  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 65.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 45 MPH  
 POSTED SPEED = 45 MPH

**TYPICAL SECTION NOTES:**

1. Station Compaction Only.
2. Curb Pad consists of either 4" of Limerock Base or 3" of Asphalt.

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. D1462 EOR: Christopher D. Davis, P.E., No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO.  6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				83	WALTON	220664-2-52-01			



OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2") (PG 76-22)  
 AND FRICTION COURSE FC-9.5 (1") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 12800  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 85.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 45 MPH  
 POSTED SPEED = 45 MPH

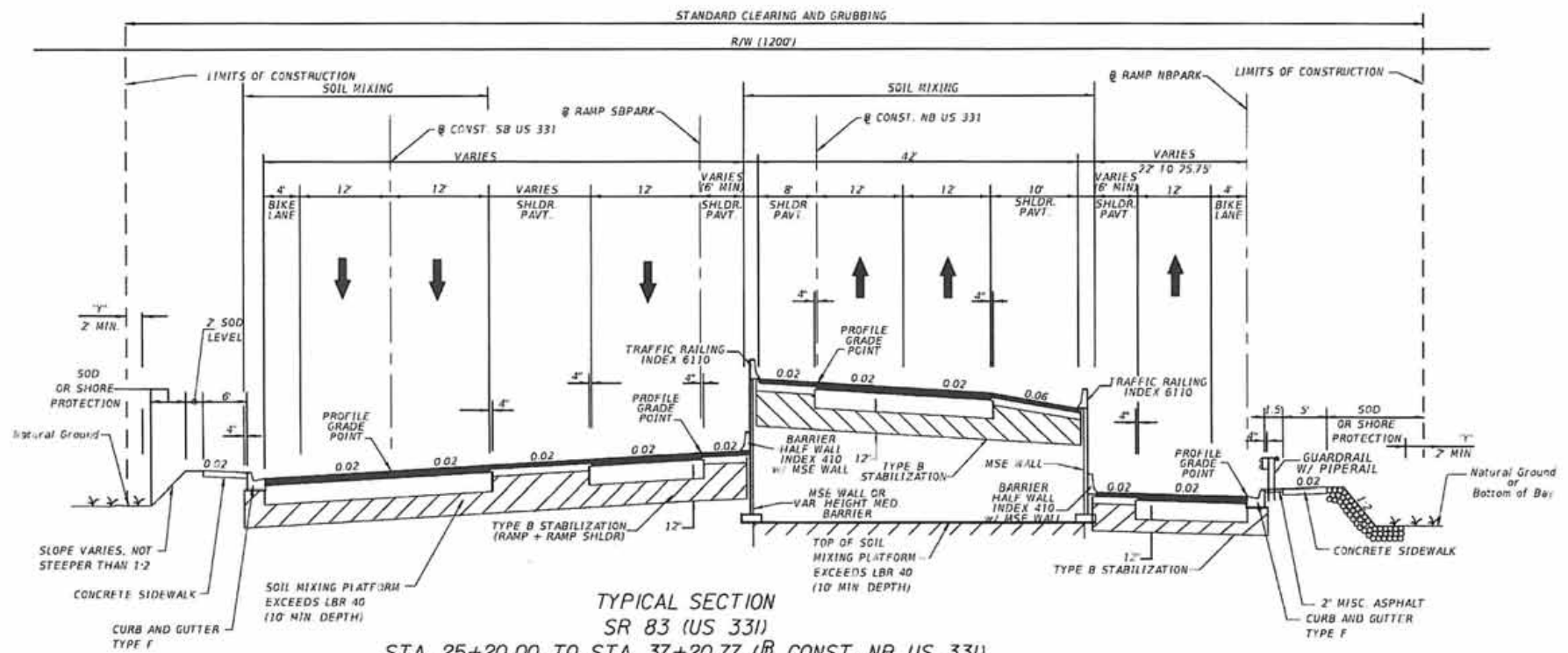
**TYPICAL SECTION NOTES:**

1. Static Compaction Only
2. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
3. Refer to Shore Protection Plans for details on Shore Protection requirements.

\* USE 12" OF TYPE B STABILIZATION IN PLACE OF SOIL MIXTURE BETWEEN:  
 STA 14+01.22 TO 18+00.00 (@ CONST. NB US 331)  
 STA 213+98.64 TO 218+00.00 (@ CONST. SB US 331)

REVISIONS		DATE	DESCRIPTION	Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E., No. 63070	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					83	WALTON	220664-2-52-01	7

**TYPICAL SECTIONS**



**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 25+20.00 TO STA. 37+20.77 (CONST. NB US 331)**  
**STA. 225+20.21 TO STA. 238+18.24 (CONST. SB US 331)**  
**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-9.5 (1") (PG 76-22)

**SHOULDER PAVEMENT (EXCLUDING RAMPS)**

OPTIONAL BASE GROUP 1 WITH  
 FRICTION COURSE FC-9.5 (1") (PG 76-22)

**NEW CONSTRUCTION: PARK RAMPS**

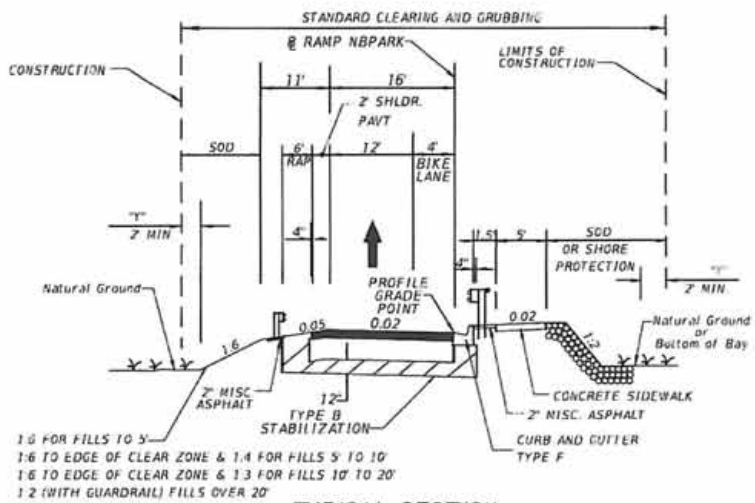
OPTIONAL BASE GROUP 4 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (12") (PG 76-22)

- TYPICAL SECTION NOTES:**
1. Static Compaction Only.
  2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.
  3. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
  4. Refer to Shore Protection Plans for details on Shore Protection requirements.

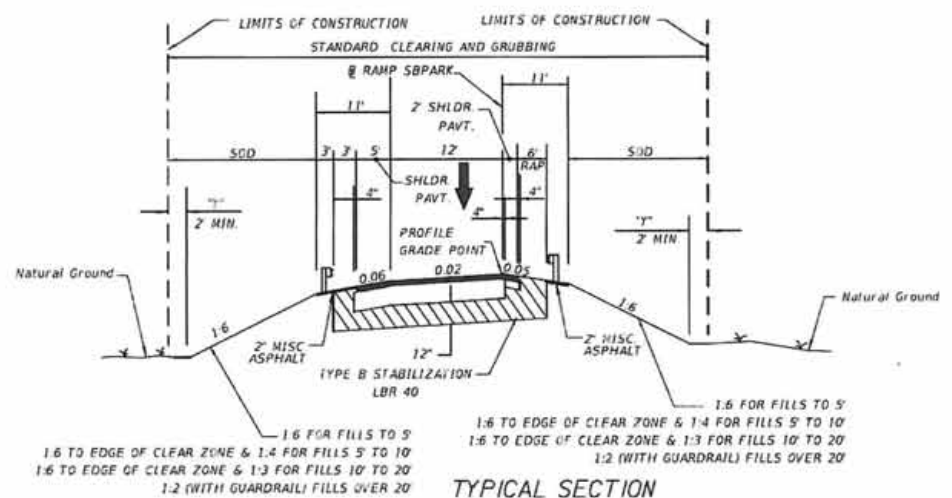
**TRAFFIC DATA**

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ESTIMATED OPENING YEAR	= 2016 AADT = 16000	
ESTIMATED DESIGN YEAR	= 2037 AADT = 31900	
K = 9%	D = 65.9%	T = 7.09% (24 HOUR)
DESIGN HOUR T	= 3.55%	
DESIGN SPEED	= 45 MPH	
POSTED SPEED	= 45 MPH	

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E., No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>  SHEET NO. <b>8</b>
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				83	WALTON	220664-2-52-01		



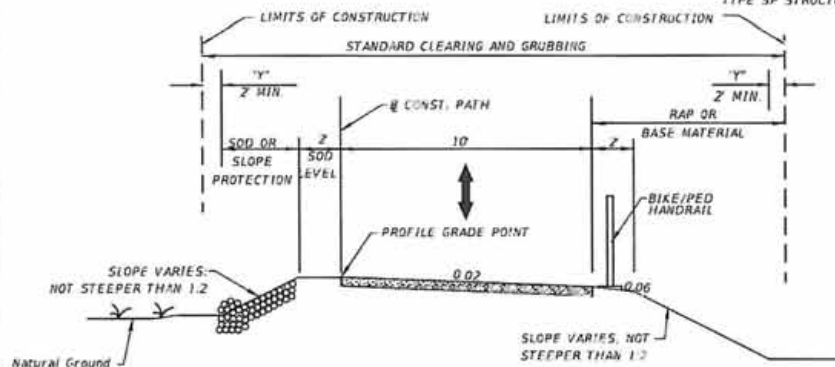
**TYPICAL SECTION**  
 STA. 110+00.00 TO STA. 126+07.52 (RAMP NBPARK)



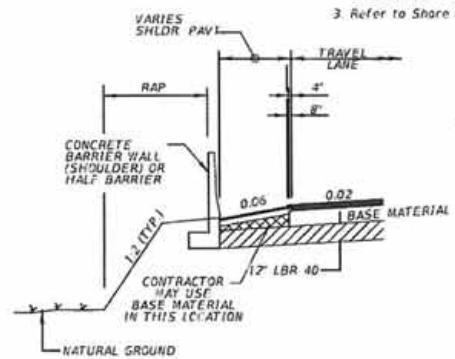
**TYPICAL SECTION**  
 STA. 315+84.85 TO STA. 319+98.61 (RAMP SBPARK)

- TYPICAL SECTION NOTES**
1. Static Compaction Only.
  2. At the contractor's option, unpaved shoulders may be constructed of base material at an additional compensation.
  3. Refer to Shore Protection Plans for details on Shore Protection requirements.

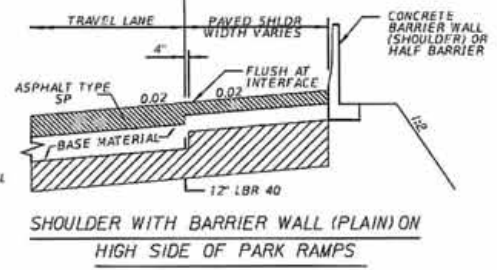
**RAMP AND SHOULDER NEW CONSTRUCTION**  
 OPTIONAL BASE GROUP 4 WITH  
 TYPE 5P STRUCTURAL COURSE (TRAFFIC B) (2") (PG 76-22)



**TYPICAL SECTION**  
 BIKE/PED. PATH FOR SB PARK ACCESS  
 STA. 9+99.10 TO STA. 15+22.14 (@ CONST. PATH)  
 PATH NEW CONSTRUCTION  
 4" CONCRETE SIDEWALK



**SHOULDER WITH BARRIER WALL (PLAIN) ON**  
 LOW SIDE OF PARK RAMPS



**SHOULDER WITH BARRIER WALL (PLAIN) ON**  
 HIGH SIDE OF PARK RAMPS

**TRAFFIC DATA**

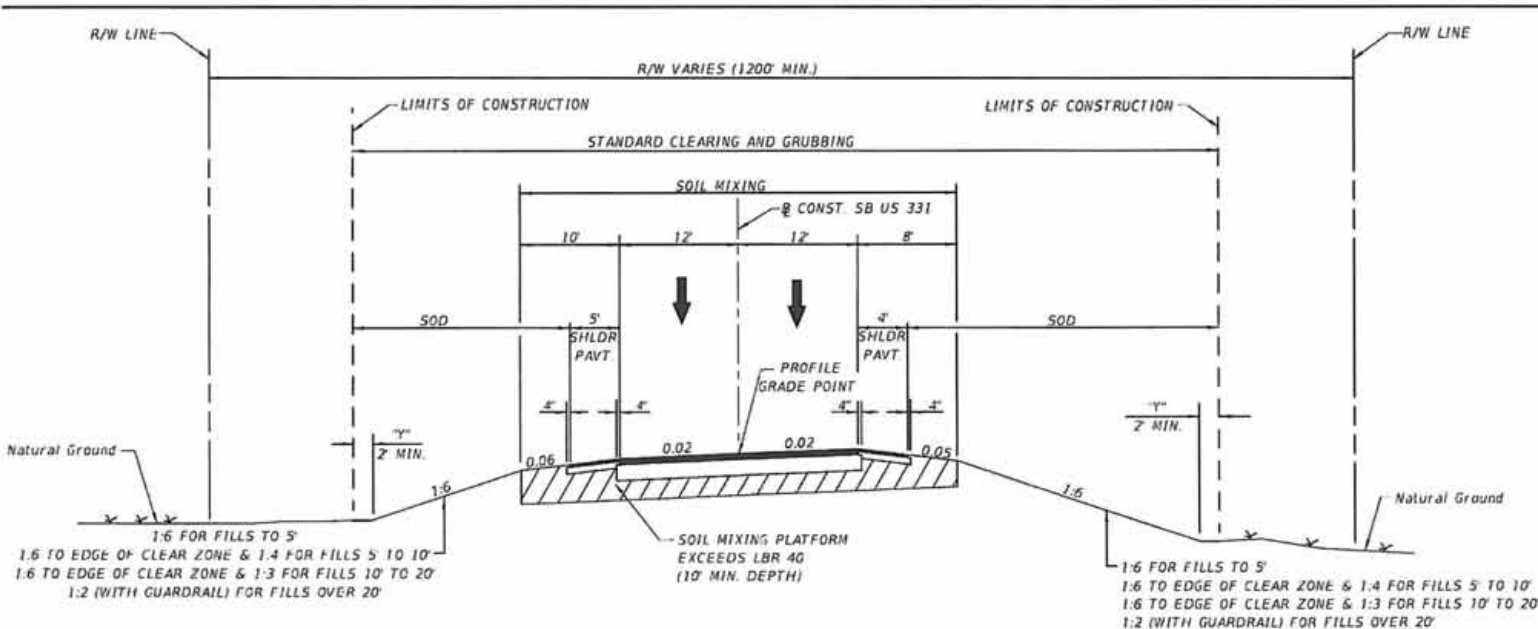
CURRENT YEAR	= 2013 AADT = 12800
ESTIMATED OPENING YEAR	= 2016 AADT = 16000
ESTIMATED DESIGN YEAR	= 2037 AADT = 31900
K	= 9% D = 65.9% T = 7.09% (24 HOUR)
DESIGN HOUR T	= 3.55%
DESIGN SPEED	= 65 MPH
POSTED SPEED	= 55 MPH
RAMP DESIGN SPEED	= 45 MPH

REVISIONS		REVISIONS		STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		
				ROAD NO. 83	9
				COUNTY WALTON	
				FINANCIAL PROJECT ID 220664-2-52-01	

Parsons Brinckerhoff, Inc.  
 121 W. Trade Street, Suite 1950  
 Charlotte, NC 28202  
 (704) 342-9469  
 Cert. of Auth. No. 01462  
 EORs Christopher D. Davis, P.E. No. 63070

**TYPICAL SECTIONS**





**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 313+51.94 TO STA. 354+66.44**  
**(@ CONST. SB US 331)**

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 1/2") (PG 76-22)

**SHOULDER PAVEMENT**

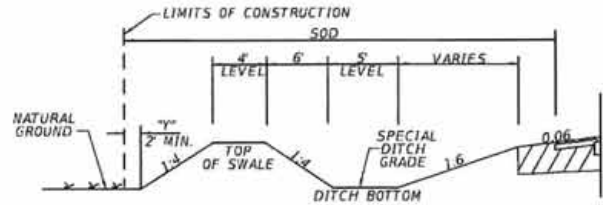
OPTIONAL BASE GROUP 1 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 1/2") (PG 76-22)

**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 12800  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 65.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 65 MPH  
 POSTED SPEED = 55 MPH

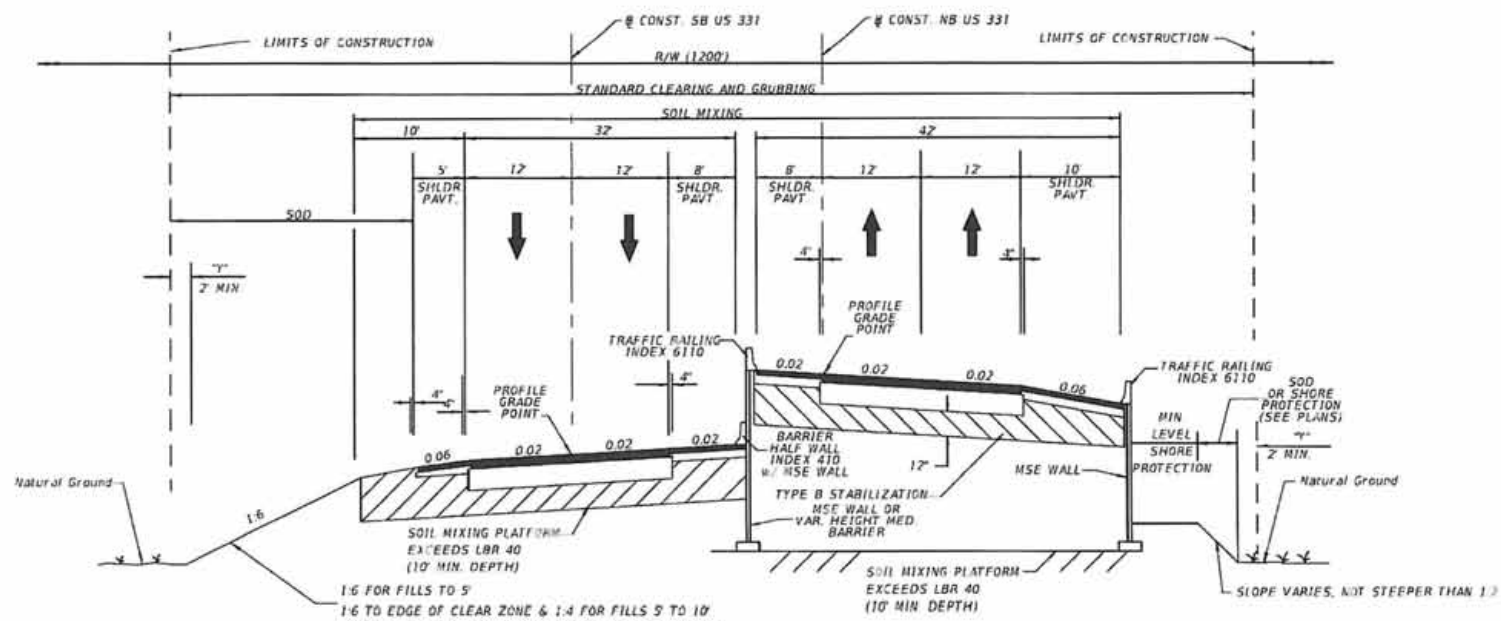
**TYPICAL SECTION NOTES**

1. Static Compaction Only.
2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.
3. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
4. Refer to Shore Protection Plans for details on Shore Protection requirements.



**SPECIAL DITCH DETAIL**  
 STA. 318+00.00 (LT) TO STA. 350+00.00 (LT)

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E. No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO. 10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				83	WALTON	220664-2-52-01			



**TYPICAL SECTION**  
**SR 83 (US 331)**  
 STA. 157+76.38 TO STA. 164+40.00 @ CONST. NB US 331  
 STA. 357+66.46 TO STA. 364+37.01 @ CONST. SB US 331

**NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1/2") (PG 76-22)

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 1 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1/2") (PG 76-22)

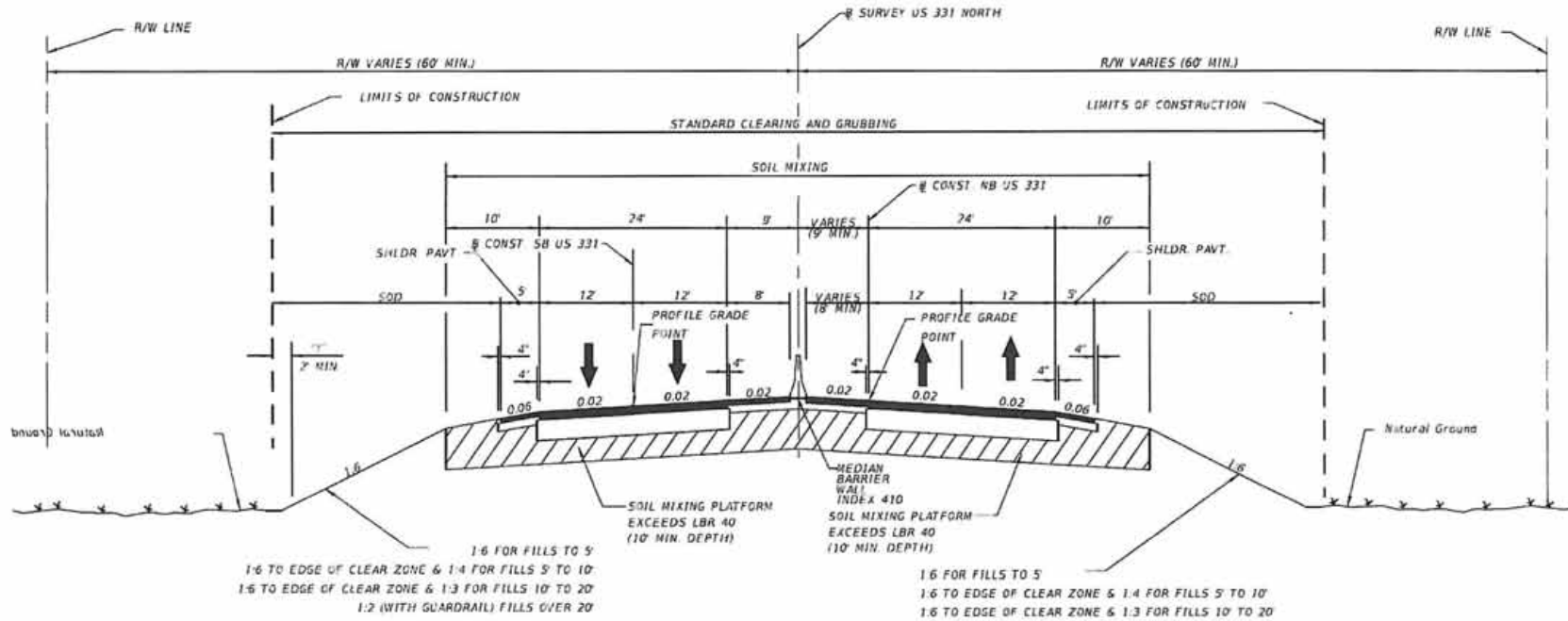
**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 12800  
 ESTIMATED OPENING YEAR = 2016 AADT = 18000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 65.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 65 MPH  
 POSTED SPEED = 55 MPH

**TYPICAL SECTION NOTES:**

1. Static Compaction Only
2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.
3. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
4. Refer to Shore Protection Plans for details on Shore Protection requirements.

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-9469 Cert. of Auth. No. 01462 EDR Christopher D. Davis, P.E., No. 63070	STATS OF FLORIDA			DEPARTMENT OF TRANSPORTATION  <b>TYPICAL SECTIONS</b>	SHEET NO.  11
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID			
			83		WALTON	220664-2-52-01			



**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 164+40.00 TO STA 177+67.73**  
**(@ CONST NB US 331)**  
**STA. 364+37.01 TO STA 377+65.31**  
**(@ CONST SB US 331)**

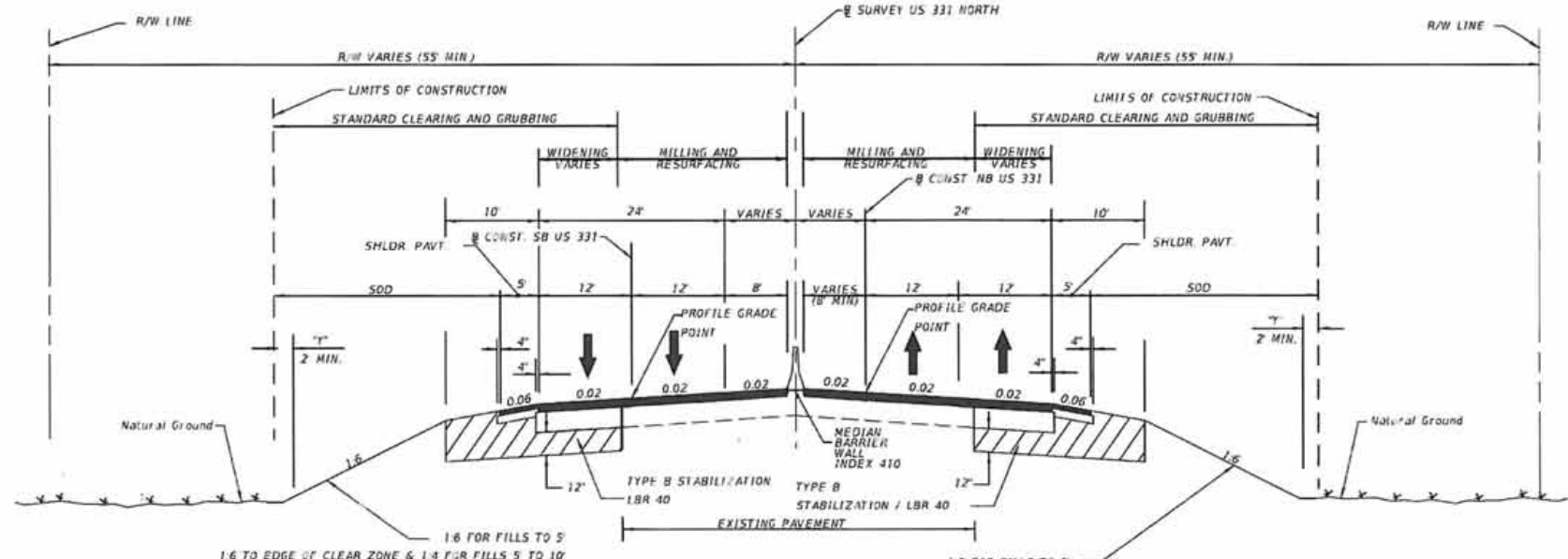
**NEW CONSTRUCTION**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3 1/2") (PG 76-22)  
 AND FRICTION COURSE FC 5 (1/2") (PG 76-22)

**SHOULDER PAVEMENT**  
 OPTIONAL BASE GROUP 1 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1/2") (PG 76-22)

- TYPICAL SECTION NOTES:**
1. Static Compaction Only.
  2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.
  3. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
  4. Refer to Shore Protection Plans for details on Shore Protection requirements.

**TRAFFIC DATA**  
 CURRENT YEAR = 2013 AADT = 12800  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 65.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.53%  
 DESIGN SPEED = 65 MPH  
 POSTED SPEED = 55 MPH

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Carl of Auth. No. 01462 EOR: Christopher D. Davis, P.E. No. 63070	STATES OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b> SHEET NO. 12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				83	WALTON	220664-2-52-01		



**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 177+67.73 TO STA. 189+17.93 (@ CONST NB US 331)**  
**STA. 377+65.31 TO STA. 388+24.58 (@ CONST. SB US 331)**  
**WIDENING**

OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3 $\frac{1}{2}$ ") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 $\frac{1}{2}$ ") (PG 76-22)

**SHOULDER PAVEMENT**

OPTIONAL BASE GROUP 1 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 $\frac{1}{2}$ ") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 $\frac{1}{2}$ ") (PG 76-22)

**MILLING**

MILL EXISTING ASPHALT PAVEMENT (3/4" AVG DEPTH)

**RESURFACING**

FRICTION COURSE FC-5 (3/4") (PG 76-22)

**OVERBUILD**

TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (THICKNESS VARIES)

**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 12900  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 3% D = 65.9% T = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 65 MPH  
 POSTED SPEED = 55 MPH

**TYPICAL SECTION NOTES:**

1. Static Compaction Only.
2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.

**REVISIONS**

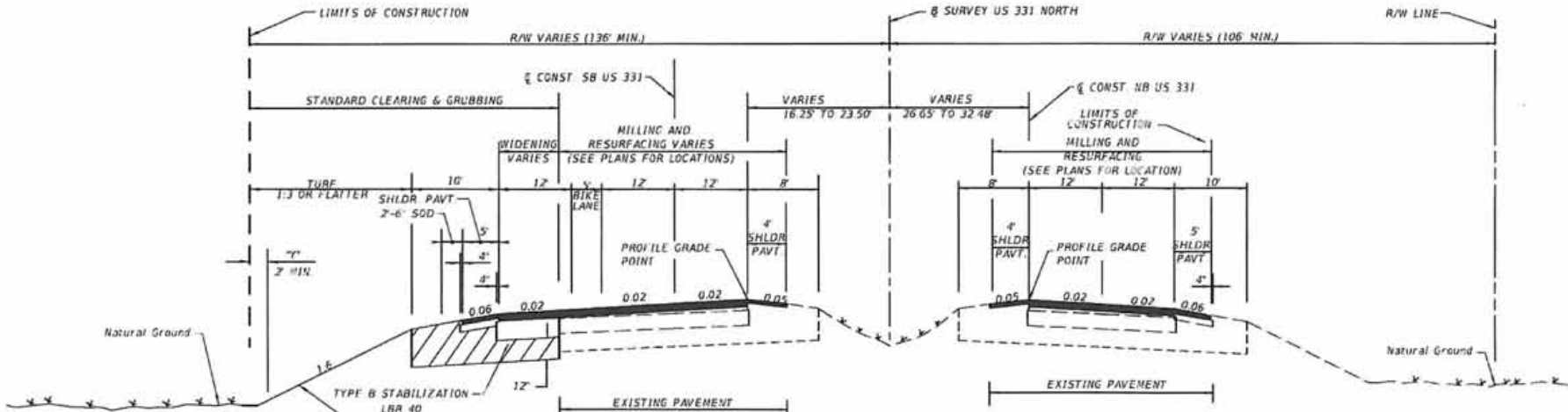
DATE	DESCRIPTION	DATE	DESCRIPTION

Parsons Brinckerhoff, Inc.  
 121 W. Trade Street, Suite 1950  
 Charlotte, NC 28202  
 (704) 342-8469  
 Cert. of Auth. No. 01462  
 EOR: Christopher D. Davis, P.E. No. 63070

STATES OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
83	WALTON	220664-2-52-01

**TYPICAL SECTIONS**

SHEET NO.  
 13



1:6 FOR FILLS TO 5'  
 1:6 TO EDGE OF CLEAR ZONE & 1:4 FOR FILLS 5' TO 10'  
 1:6 TO EDGE OF CLEAR ZONE & 1:3 FOR FILLS 10' TO 20'  
 1:2 (WITH GUARDRAIL) FILLS OVER 20'

**TYPICAL SECTION**  
**SR 83 (US 331)**  
**STA. 189+17.93 TO STA. 191+99.03 (@ CONST NB US 331)**  
**STA 388+24.58 TO 394+37.31 (@ CONST. SB US 331)**

**MILLING**  
 MILL EXISTING ASPHALT PAVEMENT (3/4" AVG. DEPTH)

**RESURFACING**  
 FRICTION COURSE FC-5 (1 1/2") (PG 76-22)

**WIDENING**  
 OPTIONAL BASE GROUP 9 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 1/2") (PG 76-22)

**SHOULDER PAVEMENT**  
 OPTIONAL BASE GROUP 1 WITH  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)  
 AND FRICTION COURSE FC-5 (1 1/2") (PG 76-22)

**OVERBUILD**  
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (PG 76-22) (THICKNESS VARIES)

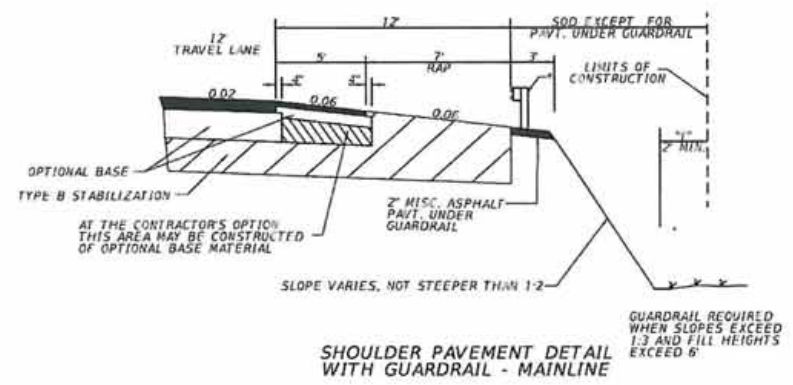
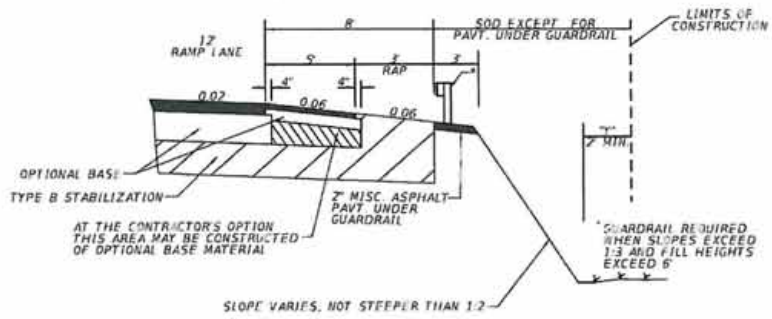
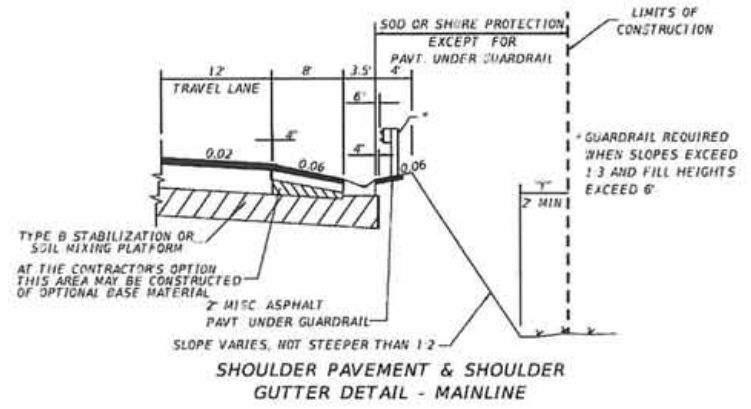
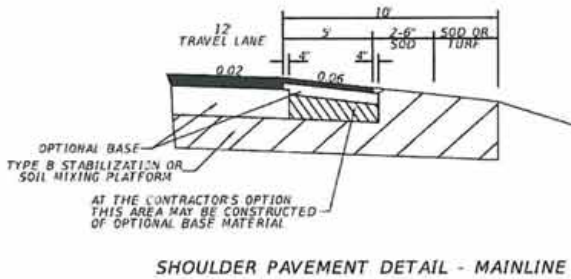
**TRAFFIC DATA**

CURRENT YEAR = 2013 AADT = 12800  
 ESTIMATED OPENING YEAR = 2016 AADT = 16000  
 ESTIMATED DESIGN YEAR = 2037 AADT = 31900  
 K = 9% D = 65.9% I = 7.09% (24 HOUR)  
 DESIGN HOUR T = 3.55%  
 DESIGN SPEED = 65 MPH  
 POSTED SPEED = 55 MPH

**TYPICAL SECTION NOTES:**

- 1 Static Compaction Only
- 2 At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-6459 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E., No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS</b>	SHEET NO.  14
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID			
			83		WALTON	220664-2-52-01			



- TYPICAL SECTION NOTES:**
1. Static Compaction Only
  2. At the contractor's option, unpaved shoulders may be constructed of base material at no additional compensation.
  3. Refer to Soil Mixing Plans for exact limits of Soil Mixing.
  4. Refer to Shore Protection Plans for details on Shore Protection requirements.

**SHOULDER PAVEMENT DETAIL WITH GUARDRAIL - PARK RAMPS**

**SHOULDER PAVEMENT DETAIL WITH GUARDRAIL - MAINLINE**

REVISIONS		DATE	DESCRIPTION	Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 704.342-8469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E., No. 63070	STATS OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTION DETAILS (1)</b>	SHEET NO. 15
DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					83	WALTON	220654-2-52-01		

**GENERAL NOTES**

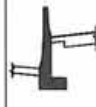

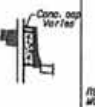
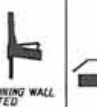

1. All bearings grid, State Plane Coordinate System NAD 83/90 by FDOT furnished control points. Bench Mark Datum is NAVD-88.
2. Existing drainage structures within construction limits shall remain, unless otherwise noted.
3. The locations of the utilities shown in the plans are based on limited investigation techniques and should be considered approximate only. The verified locations / elevations apply only at the point shown. Interpolations between these points have not been verified. Utilities shall remain unless otherwise noted.
4. The Contractor shall notify utility owners through Sunshine One Call Of Florida Inc (1-800-432-4770) and utility owners listed below 48 hours in advance of beginning construction on the job site.  
 UTILITY OWNERS:  

COMPANY	CONTACT	TELEPHONE NUMBERS
Chelco, Inc.	Matthew Avery	(850) 892--2111
Centurylink	Keith Nance	(850) 864-3751
City of Freeport	Larry Tuggle	(850) 835-2822
Cox Communications	Roger Dixon	(850) 314-8163
Mediacom Cable	Joy Pridden	(850) 698--2347
Ocala Gas District	Esso Rhoad	(850) 723-4870
Regional Utilities	Walt O'Connell	(850) 231-5114 ext. 216
WRP, Inc.	Pete DeBogary	(850) 837-2988
5. Any Public Land Survey System Corner or any monument that perpetuates the FDOT right of way within the limits of construction is to be protected by the contractor. If a monument is in danger of being destroyed and has not been properly referenced, the Project Administrator should notify the District Surveyor, without delay, by telephone at (850)330-1400.
6. Existing driveways within the limits of this project are to be replaced at the same location and width, unless otherwise shown in plans.
7. The use of Turf is not permitted within the causeway limits unless otherwise approved by the engineer.
8. All projects requiring well-pointing or other pumping of ground water or surface water will need to be coordinated with the District Contamination Impacts Coordinator (DCIC) in order to insure all aspects of the NPDES permit requirements are fulfilled. The DCIC can be reached in the District Office by calling (850) 330-1511. An additional permit may be needed dependent upon the Contractor's approach to certain aspects of the project.
9. Refer to Shore Protection Plans for delineation of existing rip-rap that can remain or be re-used within the causeway limits.
10. As shown in the plans, the contractor shall remove existing boat ramps and corresponding docks making them un-usable and restore to its natural grade. Sod or other stabilizing material shall be placed in areas above MHW for stabilization of the slope unless otherwise specified in the plans. All wood pilings shall be removed to a min. 1 foot below mudline.
11. The existing seawall shall remain unless noted on the plans. For removal with fill required over top, contractor shall remove concrete or wood piles down to at least the existing mudline.
12. Contractor shall maintain parking and access to at least two existing boat ramps at all times until the proposed park boat ramps are in place and operational. Contractor may temporary close one additional boat ramp in the event the existing boat ramp access cannot be safely maintained.


13. The Contractor will restrict personnel, the use of equipment and the storage of materials to areas within the limits of construction as noted on the plan sheets. Any off-site storage area will require prior review by FDOT Demo Staff. The Contractor will submit a request for use of off-site areas to Ms. Amanda Marshall, Environmental Management Engineer, FDOT, P.O. Box 607, Chipley, FL 32428-0607.
14. Two lanes on SR 83/US 331 must be open for traffic within 12 hours of an evacuation notice of a hurricane or other catastrophic events and shall remain open for the duration of the evacuation or event as directed by the Project Administrator.
15. The Contractor is to maintain and keep street name identification visible during construction operations, in order to facilitate emergency vehicle traffic.
16. An FDEP Generic Permit for Stormwater Discharge from Large and Small Construction Activities, to be furnished and obtained by the contractor, will be required for this project.
17. Type II Object Markers shall be placed at every headwall, including those outside the clear zone.
18. The Contractor is responsible for removing all memorial markers conflicting with construction and delivering them to the local Maintenance Engineer with a description of where it was removed (i.e. sta/offset). Cost is to be considered incidental. The markers shall be replaced by Maintenance after completion of the construction contract.
19. The Contractor will be required to coordinate construction efforts with other contractors that have been issued an FDOT permit within the limits of this project. In addition, the contractor will be responsible for the coordination of all construction schedules and traffic control phasing of adjacent projects.
20. Construction debris generated by the Contractor during construction of this project shall be removed by the Contractor and disposed of in approved disposal sites furnished by the Contractor.
21. The Contractor shall maintain existing signal detection at the Chat Holley Intersection for all phases on construction.

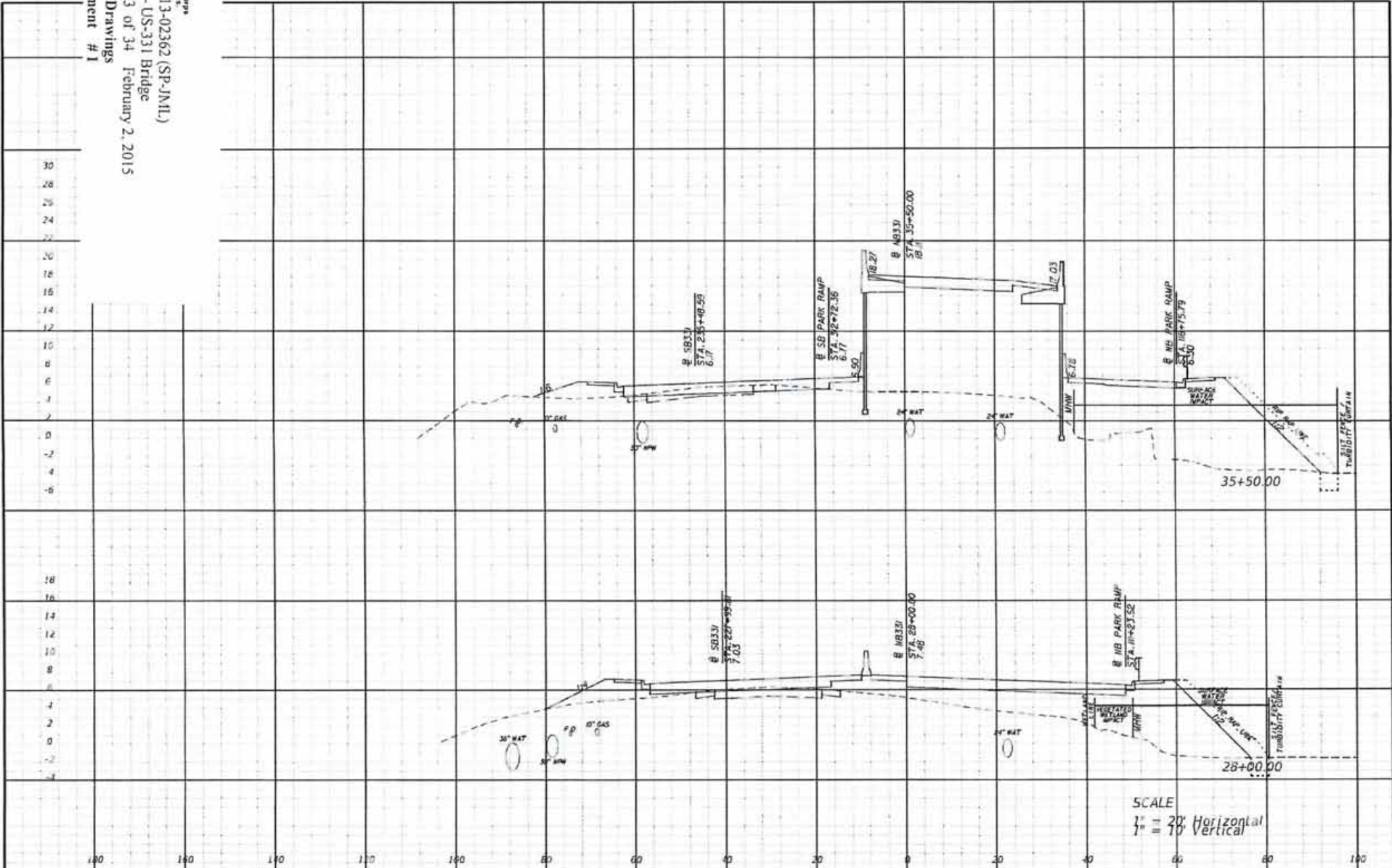
**Potential Contaminated Soil Notes**

1. Potentially contaminated soils have been located in an area from approximately @ Survey Sta. 253+00 to Sta. 259+00 on the left side of the existing roadway and extend out past the R/W.
2. Two weeks prior to construction in these areas, contact FDOT District Contamination Impacts Coordinator, at (850) 330-1511 so that an FDOT representative can be available, if needed.
3. FDOT will dispose of any contaminated soil encountered by the Contractor in the contaminated areas. The quantity of contaminated soils within the impacted area is unknown. Also, any fill quantity needed to replace contaminated soils removed is unknown.

SUMMARY OF CONCRETE BARRIER WALLS AND PLAN ABBREVIATION					
PAR ITEM NO.	SB1-1 VAR. RT. BARR. WALL	SB1-1 MEDIAN BARRIER F IS LESS OR EQUAL TO 6"	SB1-1 BARR. WALL (HALF)	SB1-B-1 TRAFFIC RAILING	SB1-72-3 BARR. WALL RIGID-SHOULDER
BARRIER WALL TYPE & DESCRIPTION					
STANDARD INDEX NO.	INDEX 40 SHEET 3 OF 25	INDEX 40 SHEET 3 OF 25	INDEX 40 SHEET 1 OF 25	INDEX 600	INDEX 40 SHEET 3 OF 25

REVISIONS				Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-9469 Cert. of Auth. No. 01462 EORs Christopher D. Davis, P.E., No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>GENERAL NOTES</b>	SHEET NO.  23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				83	WALTON	220684-2-52-01			

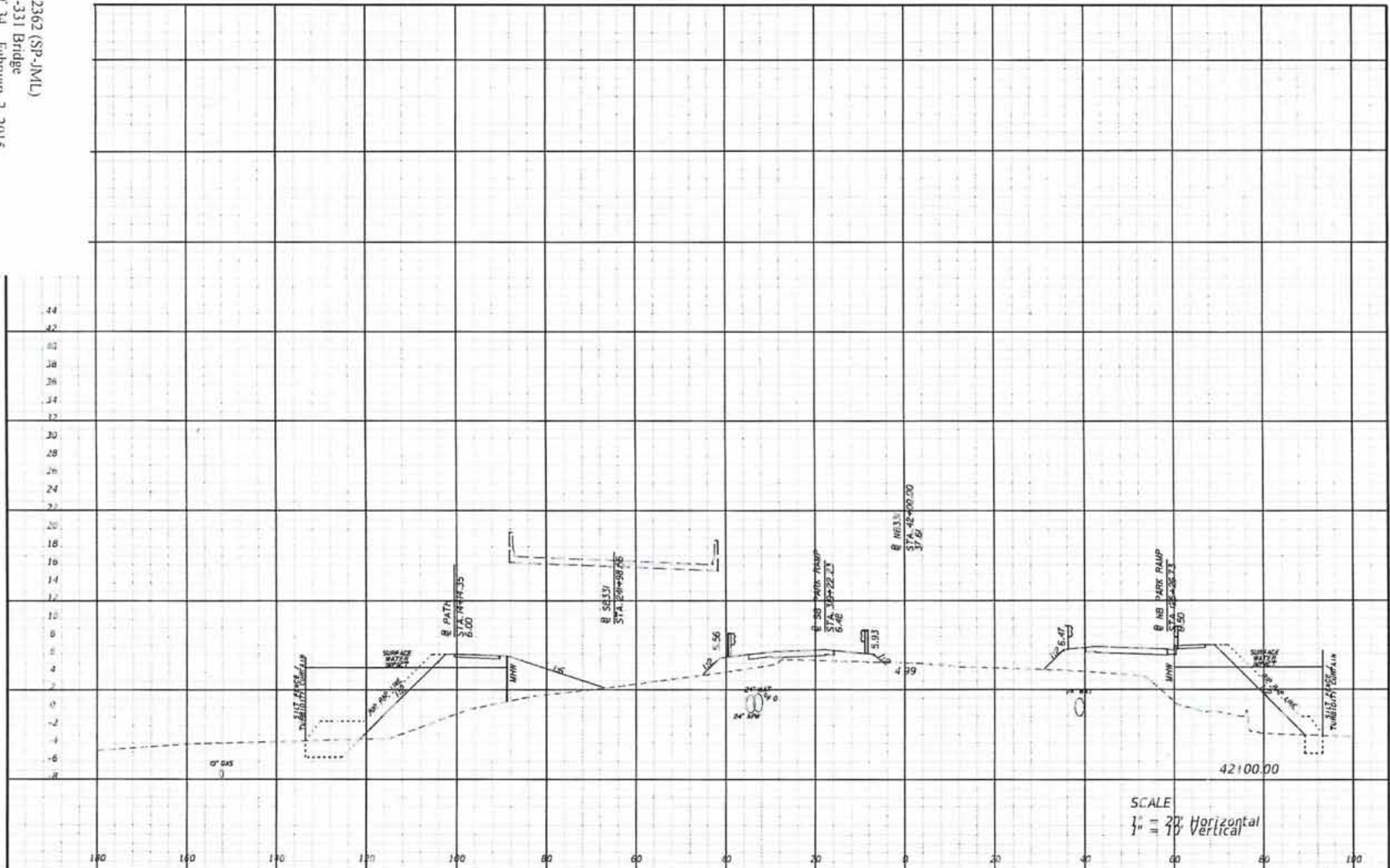
  
 US Army Corps  
 of Engineers  
 SAJ-2013-02362 (SP-JN11)  
 FDOT - US-331 Bridge  
 Page #23 of 34 February 2, 2015  
 Permit Drawings  
 Attachment # 1



SCALE  
 $\frac{1}{2}'' = 20'$  Horizontal  
 $\frac{1}{4}'' = 10'$  Vertical

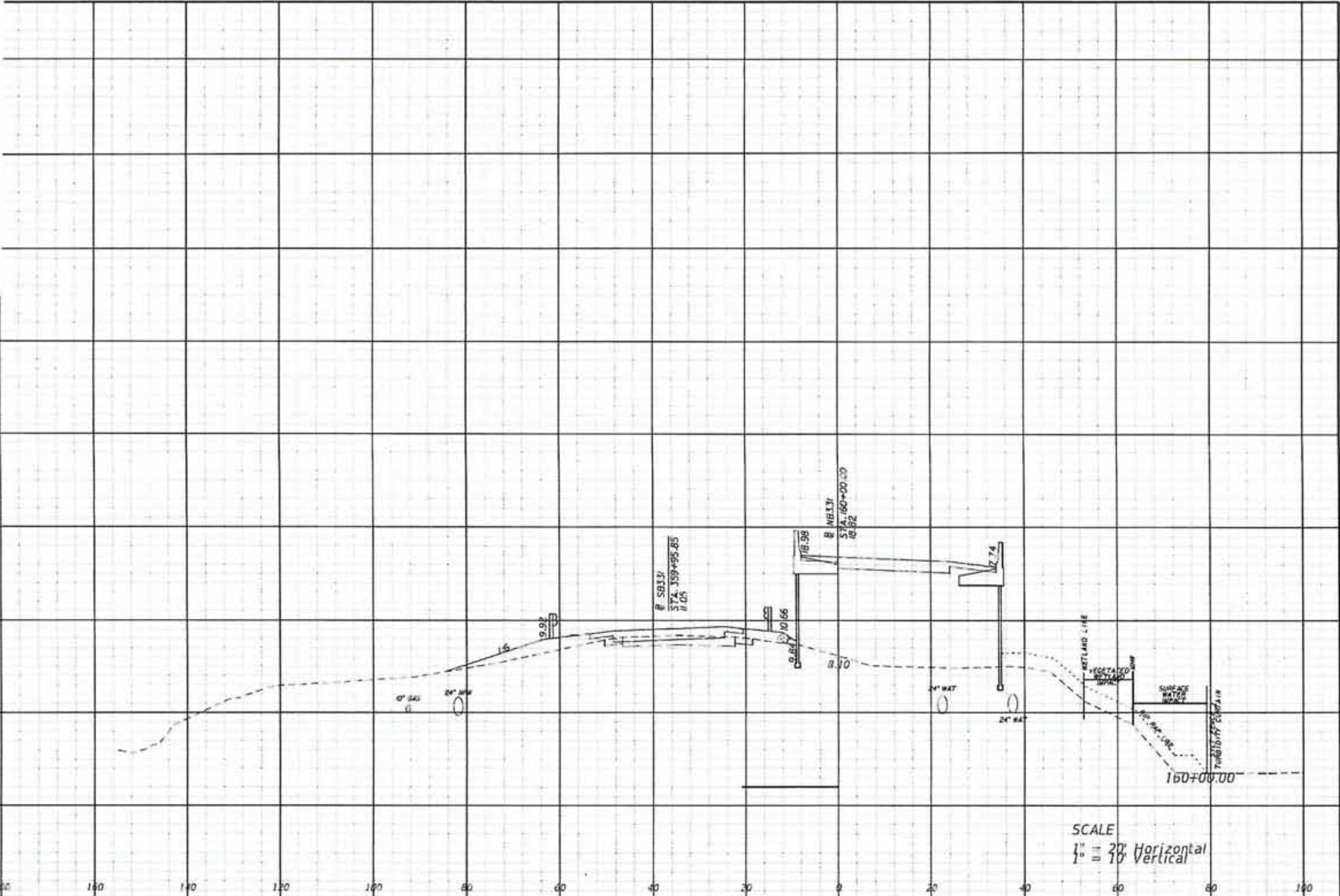
REVISIONS		DESCRIPTION		<b>PARSONS BRINCKERHOFF</b> <small>2852 North West Shore Blvd. Suite 300 Tampa, Florida 33607 704.243.4444 CORP. OF SUPPL. &amp; SVCS. 601.375.4200</small>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					83	WALL UN	220664-252-01		





REVISIONS		DATE		DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION		

<b>PARSONS BRINCKERHOFF</b> 2202 North West Shore Blvd. Suite 300 Tampa, Florida 33607 (813) 342-8400 C.E., P.E., S.E., P.E., S.E. ESR/Christopher G. Davis, P.E., No. 6330			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS</b>	SHEET NO.
ROAD NO. 83	COUNTY WALTON	FINANCIAL PROJECT ID 220564-2-52-01					



SCALE  
 1" = 20' Horizontal  
 1" = 10' Vertical

REVISIONS	
DATE	DESCRIPTION

**PARSONS BRINCKERHOFF**  
 2202 North West Street, Suite 300  
 Tampa, Florida 33607  
 (813) 542-5900  
 CENL, INC. AUTH. NO. DW62  
 ECR: Christopher D. Davis, P.E., WL6331D

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
83	WALTON	220604-2-52-01

**CROSS SECTIONS**

SHEET NO.

# Proposed Pilcher Park



US Army Corps  
of Engineers

SAJ-2013-02362 (SP-JML)

FDOT – US-331 Bridge

Page #26 of 34 February 2, 2015

Permit Drawings

Attachment # 1

GENERAL NOTES

EXISTING OBSTACLE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERTICAL LOCATION ELEVATIONS APPLY ONLY TO THE POINT SHOWN, INTERPOLATION BETWEEN THESE POINTS HAS NOT BEEN MADE. UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL 811 OR 1-800-434-7770 AND UTILITY COMPANIES LISTED BELOW 2 FULL WORKING DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

COMPANY	CONTACT	PHONE NUMBER
CH2M HILL	MATTHEW AVERY	850-697-1111
CONCRETE	KEITH HANCO	850-640-3751
DOX COMMUNICATIONS	RODNEY DIXON	850-444-1900
MEDIA/COM CABLE	JOEY PRIDGEN	870-689-0311
ORALOGIA GAS DISTRICT	ESSA RICHIE	850-214-4470
REGIONAL UTILITIES	NEIL DOONELL	850-567-1144 EXT 216
WEP INC.	PETE DEBOGGY	850-374-2599

NOTE: THE FOOT AREA UTILITY COORDINATOR IS JOHN McDONALD (AT PUNCH) HIS NUMBER IS 850-260-3030

- ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT SURVEYOR, WITHOUT DELAY, BY TELEPHONE. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY TO THE DISTRICT CONTAMINATION IMPACTS COORDINATOR (CIC). THE CONTRACTOR SHALL PROVIDE THE CIC WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ENGINEER SHALL FURNISH WITH THE SITE (PRIOR TO BEGINNING) WRITTEN APPROVAL TO THE CONTRACTOR, BECAUSE STATE LAWS DO NOT PROHIBIT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINED AND INTENDED FOR HALFCENT USE AS A HAZARDOUS MATERIAL. SUCH PRODUCTS DO NOT NEED A MSDS SHEET. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE CIC OF THE DISCOVERY, THE LOCATION, ARRANGING FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER. THE CIC WILL ADVISE THE PROJECT ENGINEER.
- ALL SOIL MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE DEPARTMENT PRIOR TO PLACEMENT. ANY SOIL WITH NOXIOUS WEED AND GRASSES, INCLUDING TROPICAL BIRD APPLE SHALL BE REJECTED FOR USE ON THE PROJECT.
- ALL SOIL SHALL BE OVERSEED AT THE DISCRETION OF THE SNOBOLCH. THE COST OF OVERSEEDING SHALL BE INCLUDED IN THE COST OF THE SOIL.
- THE CONTRACTOR SHALL FURNISH THE DESIGN, PRIOR TO INCORPORATION IN TO THE PROJECT. A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY STATES THAT THE SOY BEAN, STRAW AND RICE MATTER MATERIALS ARE FREE OF NOXIOUS WEEDS AND GRASSES INCLUDING BIRD APPLE.
- ALL HAY BALES AND SBT FENCES SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AS NOTED ON THE PLAN SHEETS. ANY OFF-SITE STORAGE AREA WILL REQUIRE PRIOR REVIEW BY PORT DEVO STAFF. THE CONTRACTOR WILL SUBMIT A REQUEST FOR USE OF OFF-SITE AREAS TO SLAR MATTHEW ENVIRONMENTAL MANAGEMENT ENGINEER, 11011 P.O. BOX 607 CHIPLEY, FL 32906-0607.
- EROSION CONTROL ITEMS ARE EXTRACTED FOR TELEVISION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME INDICATION SIGN FULFILLING CONSTRUCTION OPERATIONS. IN ORDER TO FULFILL REQUIREMENTS FOR TRAFFIC.
- A DEEP CONCRETE PERMIT FOR STORMWATER DISCHARGE FROM AREAS AND SHALL CONSTRUCTION ACTIVITIES IS REQUIRED. APPROX.
- THE VERTICAL CURVATURE FOR THIS PROJECT IS NORTH AMERICAN VERTICAL DATUM OF 1985 DATUM.

SIGNING AND PAVEMENT MARKING NOTES:

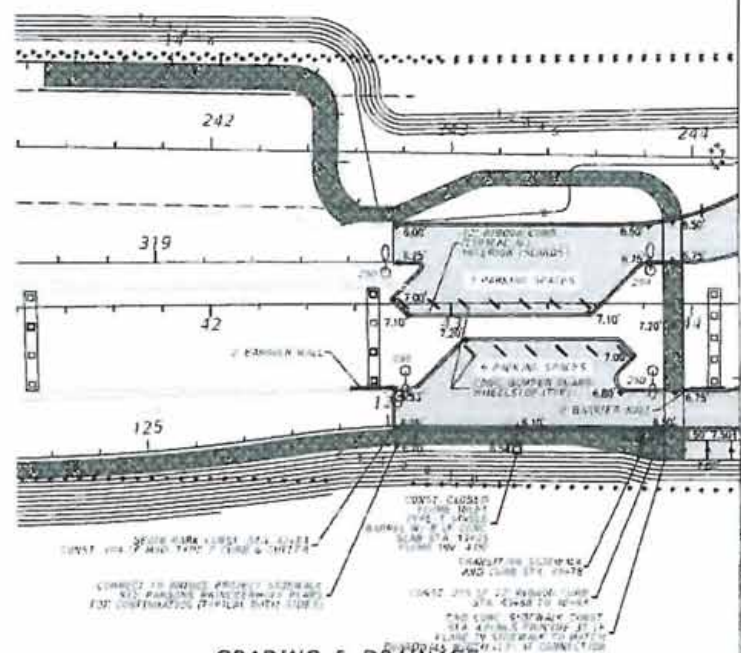
- ALL PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE 2011 DESIGN STANDARDS.
- SIGNS NOT SHOWN ON THE PLANS ARE TO REMAIN AS EXISTING.
- ALL PERMANENT PAVEMENT MARKINGS SHALL BE THE PROPORTIONS, UNLESS OTHERWISE NOTED ON THE PLANS.
- SIGNING AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE PLAN USER PROGRAM "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND THE "PORT DEVO STANDARDS" FOR SIGN DETAIL. REFER TO "STANDARD HIGHWAY SIGNS" PUBLISHED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- UNLESS OTHERWISE NOTED OR STATION IN THE PLANS, ALL PROPOSED SIGNS ARE TO BE REPLACED AT THE EXISTING SIGN LOCATION.
- THE PAVEMENT MARKING AT ALL EXISTING PROPOSED INTERCHANGE LOCATIONS ARE TO MATCH IN TERMS OF COLOR AND ALIGNMENT.
- ALL REMOVED SIGN MATERIALS SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY IN AN AREA PROVIDED BY THE CONTRACTOR.
- SIGNS THAT ARE TO BE REMOVED FROM THE PROJECT SHOULD BE STOCKPILED SEPARATELY FROM SIGNS THAT ARE TO BE REPLACING.
- REFLECTIVE PAVEMENT MARKERS ARE NOT TO BE PLACED ON THE SIDE STREET CENTERLINE.
- ALL PAVEMENT MARKING MATERIALS USED ON THIS PROJECT ARE TO BE FREE OF LEAD COMPOUNDS.
- CAUTION SHOULD BE EXERCISED IN THE INSTALLATION OF POST MOUNTED ROADSIDE SIGNS IN ORDER TO PREVENT DAMAGE TO BURIED UTILITIES.
- ALL SIGNS, INCLUDING BOUNDARY SIGNS, SHALL BE MOUNTED AT A HEIGHT OF 7 FEET FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.
- EXISTING PAVEMENT MARKINGS THAT WERE REMOVED OUTSIDE OF PROJECT LIMITS DUE TO TRAFFIC CONTROL PLANS SHALL BE REPLACED IN THEIR ORIGINAL LOCATION.

TRAFFIC CONTROL NOTES:

- ALL LANE OR SHOULDER EYES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN 12 HOURS OF THE END OF A HURRICANE OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE "DESIGN STANDARDS" BACK ROD SERIES AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL INSTALL ADVANCE CONSTRUCTION WARNING SIGNS TO COMMENCEMENT OF ALL CONSTRUCTION OPERATIONS AND MAINTAIN THEM THROUGHOUT THE DURATION OF CONSTRUCTION.
- LANE CLOSURES WILL NOT BE PERMITTED DURING SPECIAL EVENTS AND NO WORK WILL BE PERMITTED ON HOLIDAY WEEKENDS INCLUDING THE DAY BEFORE AND THE DAY FOLLOWING.

EROSION CONTROL NOTES:

- PERMANENT BODDING SHALL BE INITIATED AS SOON AS POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT POSITION OF THE SITE HAS PERMANENTLY CEASED.
- ALL EROSION CONTROL MATERIAL SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT TO INCLUDE THE REMOVAL OF HAY BALES, STAKES, AND SBT FENCES.
- THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.



GRADING & DRAINAGE

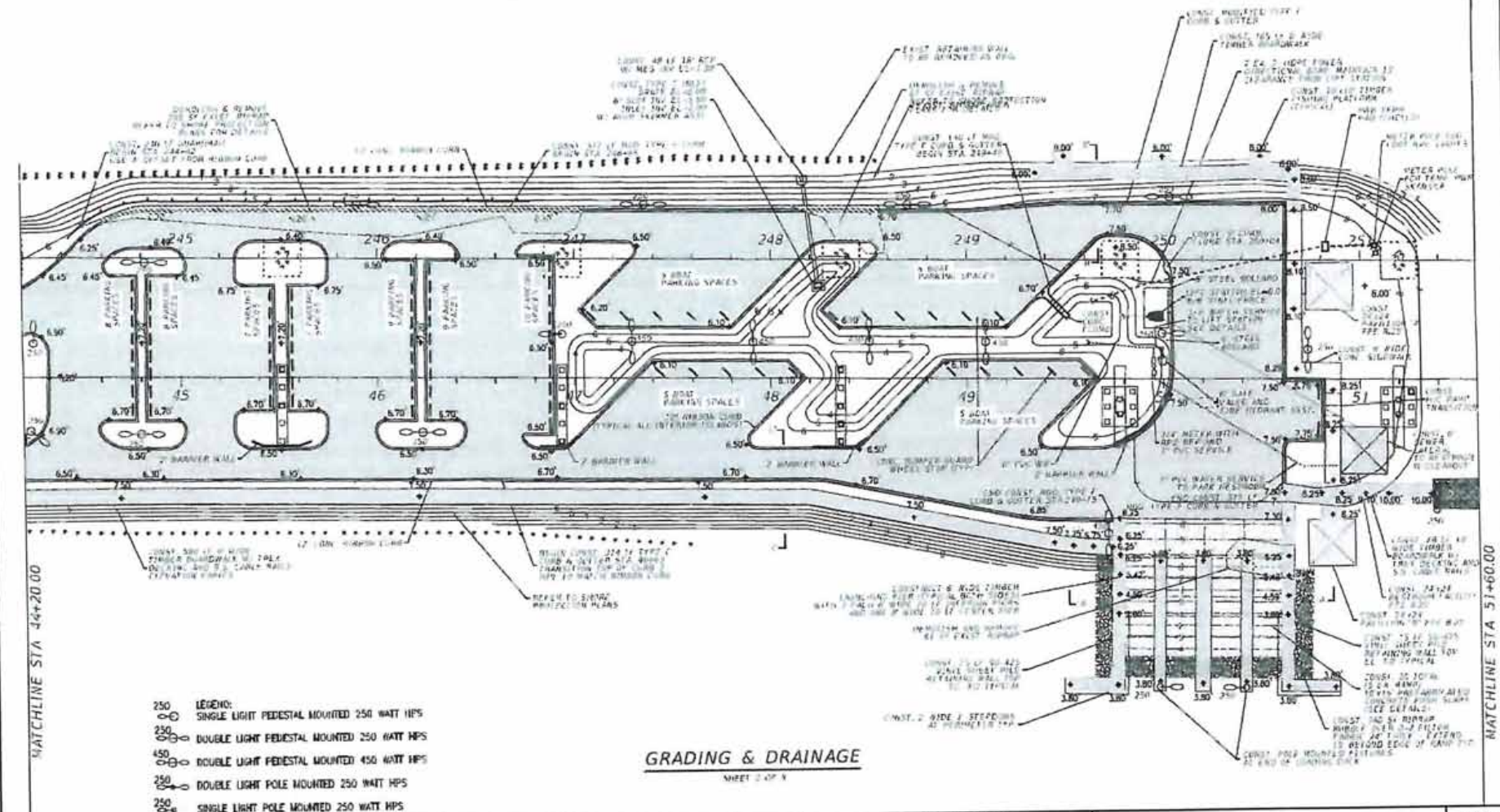
SHEET 1 OF 8

MATCH LINE STA 44+20.00

REVISIONS				PROJ. ENGINEER CH2M HILL 11011 P.O. BOX 607 CHIPLEY, FL 32906-0607 ENGINEER OF RECORD CLIFFORD L. HALL, P.E., No. 35897	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 472
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					83	WALTON	220664-2-02-01	

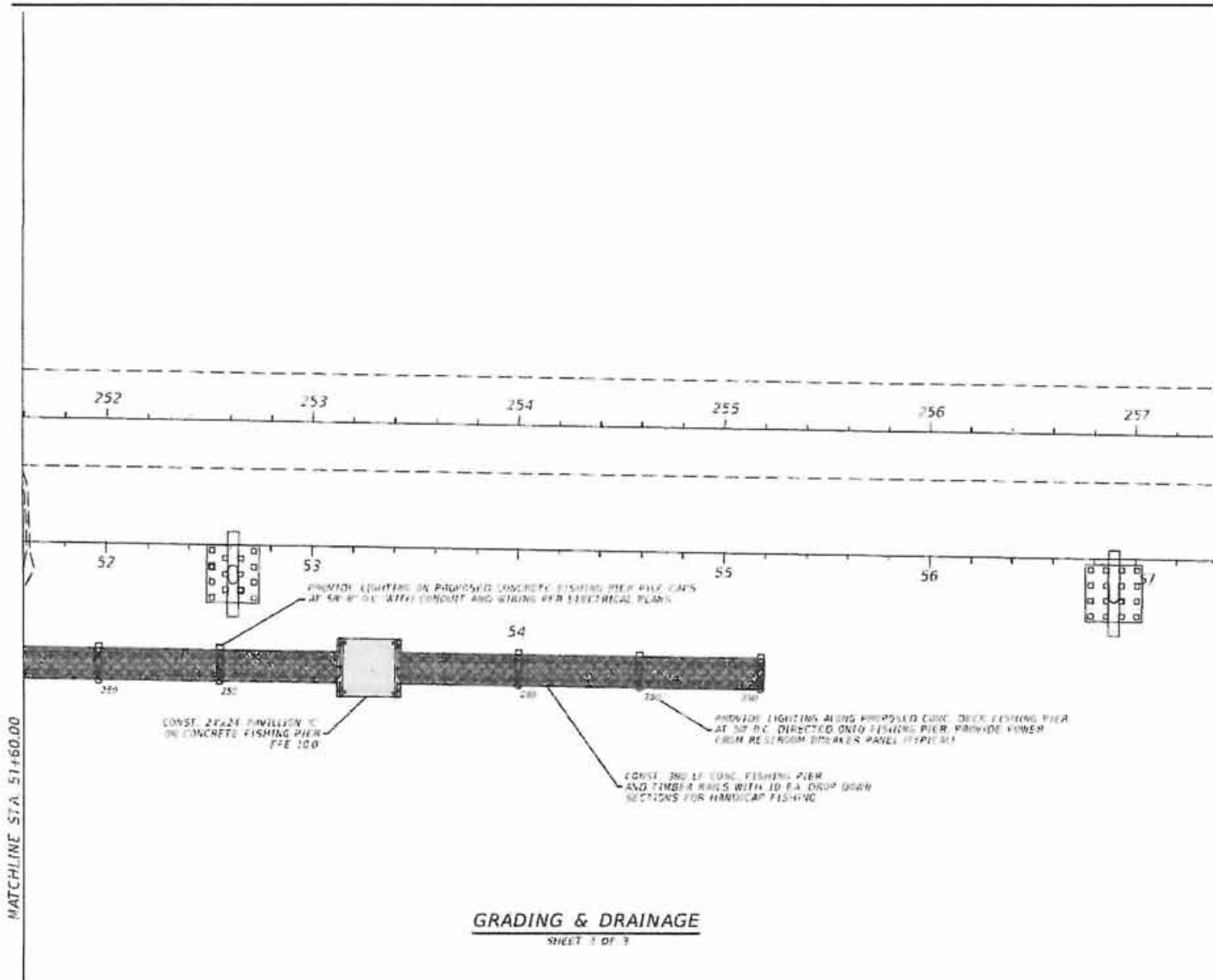
SPECIAL DETAILS  
PARK AREA

NOTICE: THE DISTANCE BETWEEN OF THIS SHEET IS THE ELECTRONIC FILE STAGE AND SHOWN UNDER MAP # 41013, 1, 4, 7.



NOTICE: THE OFFICIAL RECORD FOR THIS SHEET IS THE ELECTRONIC FILE STORED AND DISPLAYED UNDER NUMBER 1-1-17.

REVISIONS				PREDE-4104, INC. (904) 267-0719 871 NORTH CR 300 SANTA ROSA BEACH, FL 32480 FDOT BR. OF AUTHORIZATION NO. 200615F ENGINEER OF RECORD GLENN L. KNACKER, P.E., No. 37003	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>SPECIAL DETAILS</b> <b>PARK AREA</b>	SHEET NO. <b>473</b>
DATE	DESCRIPTION	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				83	WALTON	220664-2-52-01			




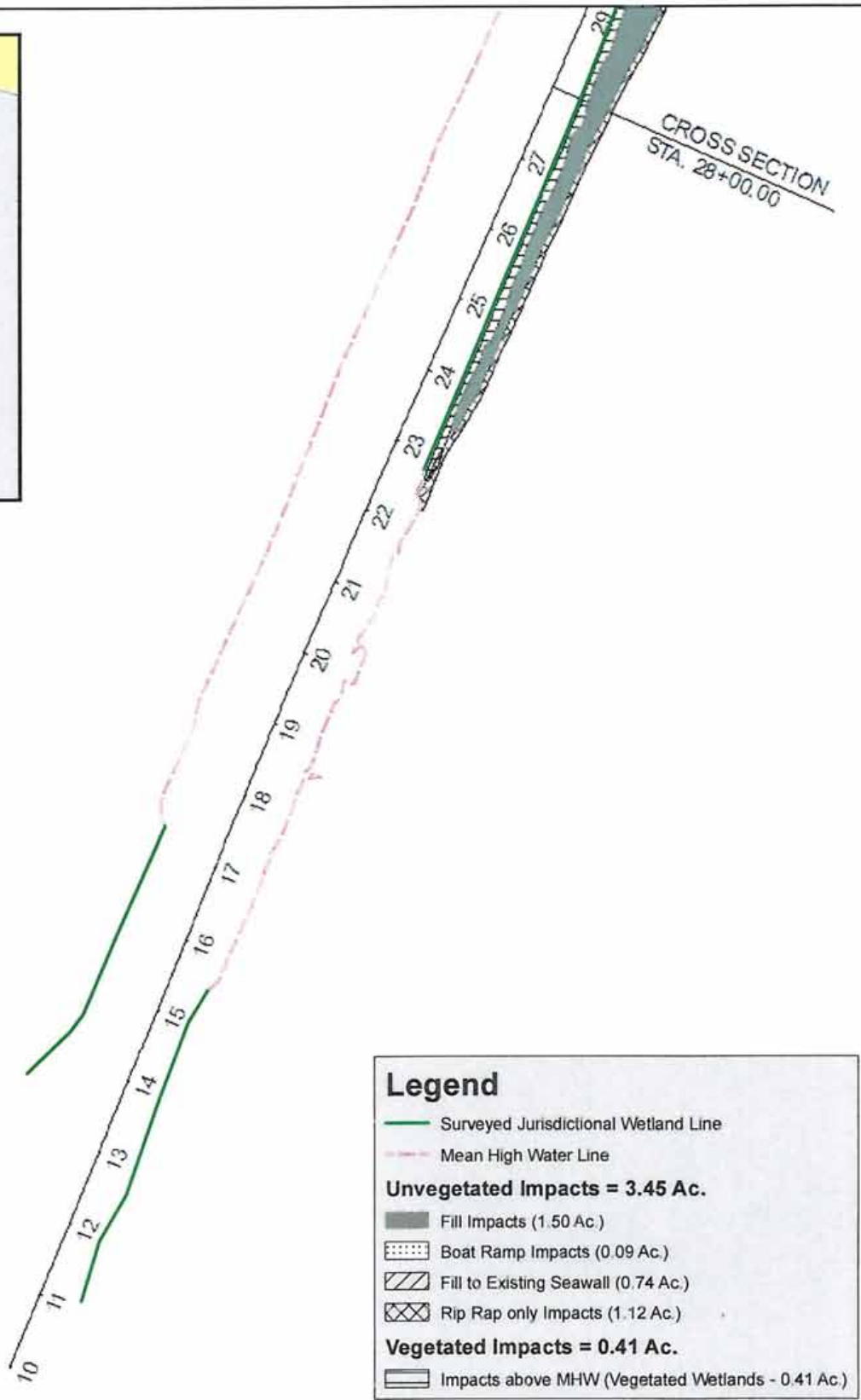
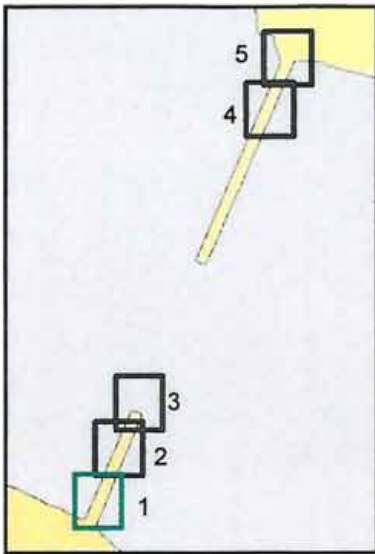
**GRADING & DRAINAGE**  
SHEET 1 OF 3

MATCHLINE STA. 51+60.00

NOTED: THIS SHEET IS THE ELECTRICAL PART OF THE GRADING AND DRAINAGE WORK. SEE SHEET 1 OF 3.

REVISIONS		DESCRIPTION	DATE	PREPARED BY	CHECKED BY	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO.			
NO.	DESCRIPTION									
				PREPARED BY: EPT NORTH GULF SANTA ROSA BEACH, FL 32986 ENGINEER OF RECORD CLEFTON L. HALL, P.E., No. 37933	(802) 887-6795	ROAD NO. 53	COUNTY WALTON	FINANCIAL PROJECT ID 220664 2-52-01	<b>SPECIAL DETAILS</b> <b>PARK AREA</b>	474

  
 US Army Corps  
 of Engineers  
 SAI-2013-02362 (SP-JML)  
 FDOT - US-331 Bridge  
 Page #29 of 34 February 2, 2015  
 Permit Drawings  
 Attachment # 1



**Legend**

- Surveyed Jurisdictional Wetland Line
- - - Mean High Water Line

**Unvegetated Impacts = 3.45 Ac.**

- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Rip Rap only Impacts (1.12 Ac.)

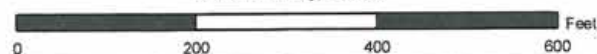
**Vegetated Impacts = 0.41 Ac.**

- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)

**SCHEDA**  
ECOLOGICAL  
ASSOCIATES  
www.scheda.com

All data within this map are supplied as is, without warranty. This product has not been reviewed for local zoning or survey.

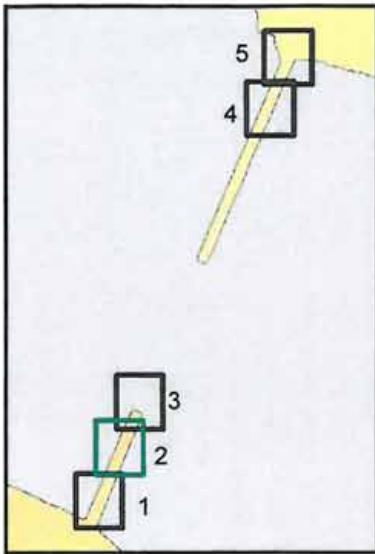
**Figure 6 - Wetland Impact Map**  
Sheet 1 of 5  
FPID #: 220664-2  
SR 83 (US 331) Choctawhatchee Bay Bridge  
Walton County, Florida



Data Source:  
-Parsons Brinckerhoff  
Imagery Source:  
-2013 FDOR

**N**

Coordinate System:  
NAD 1983 Florida  
State Plane North



**Legend**

- Surveyed Jurisdictional Wetland Line
- - - Mean High Water Line

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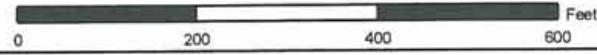
- Impacts above MHW (Vegetated Wetlands - 0.41 Ac.)

**SCHEDA**  
 ECOLOGICAL  
 ASSOCIATES  
 www.scheda.com

All data within this map are supplied as is, without warranty. This product has not been

**Figure 6 - Wetland Impact Map**

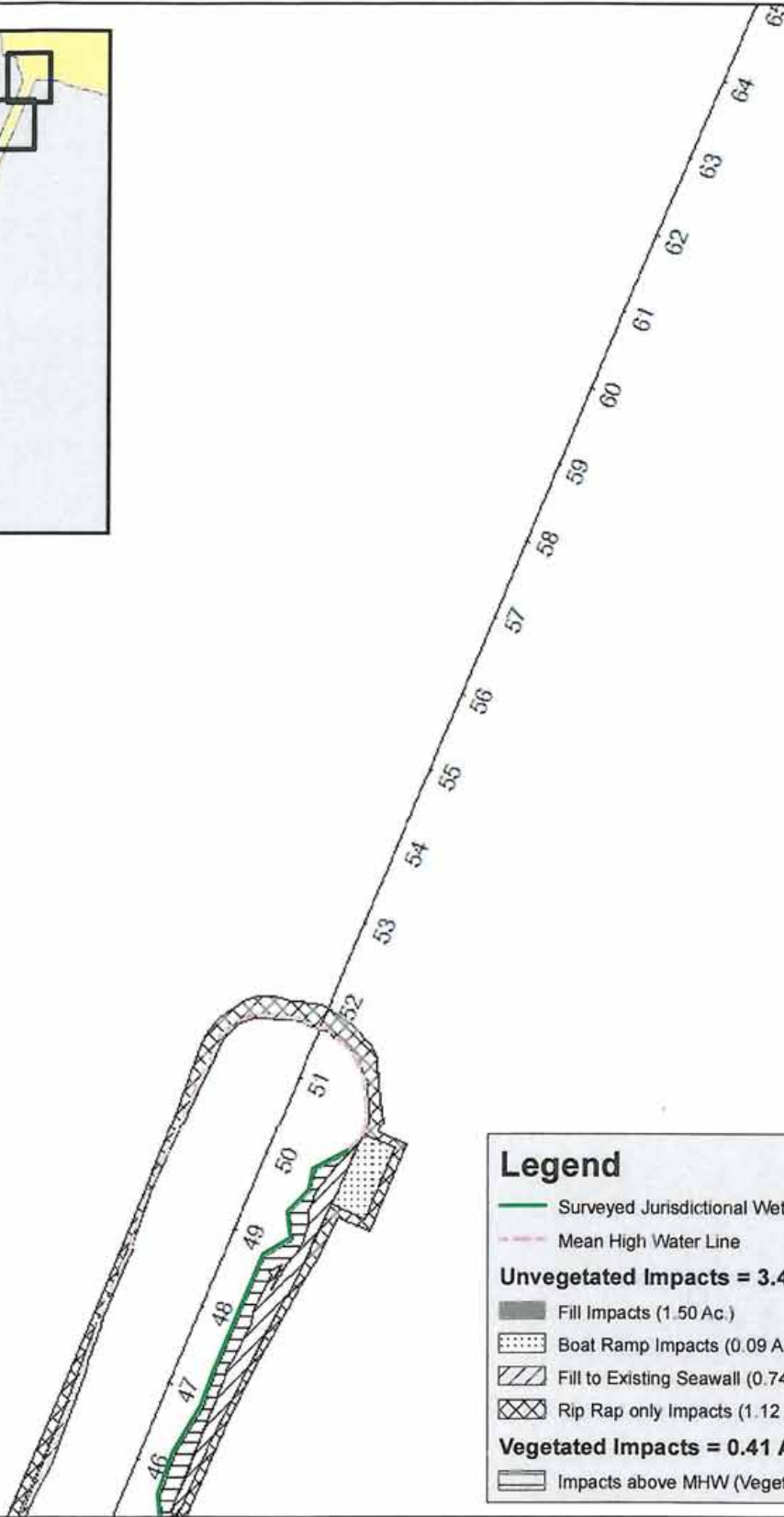
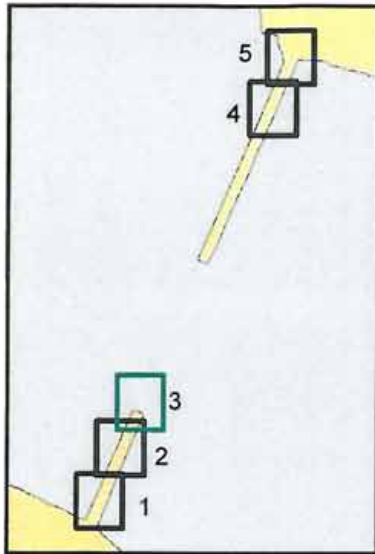
Sheet 2 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinate System:  
 NAD 1983 Florida  
 State Plane North





**Legend**

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- - - Mean High Water Line

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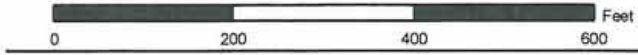
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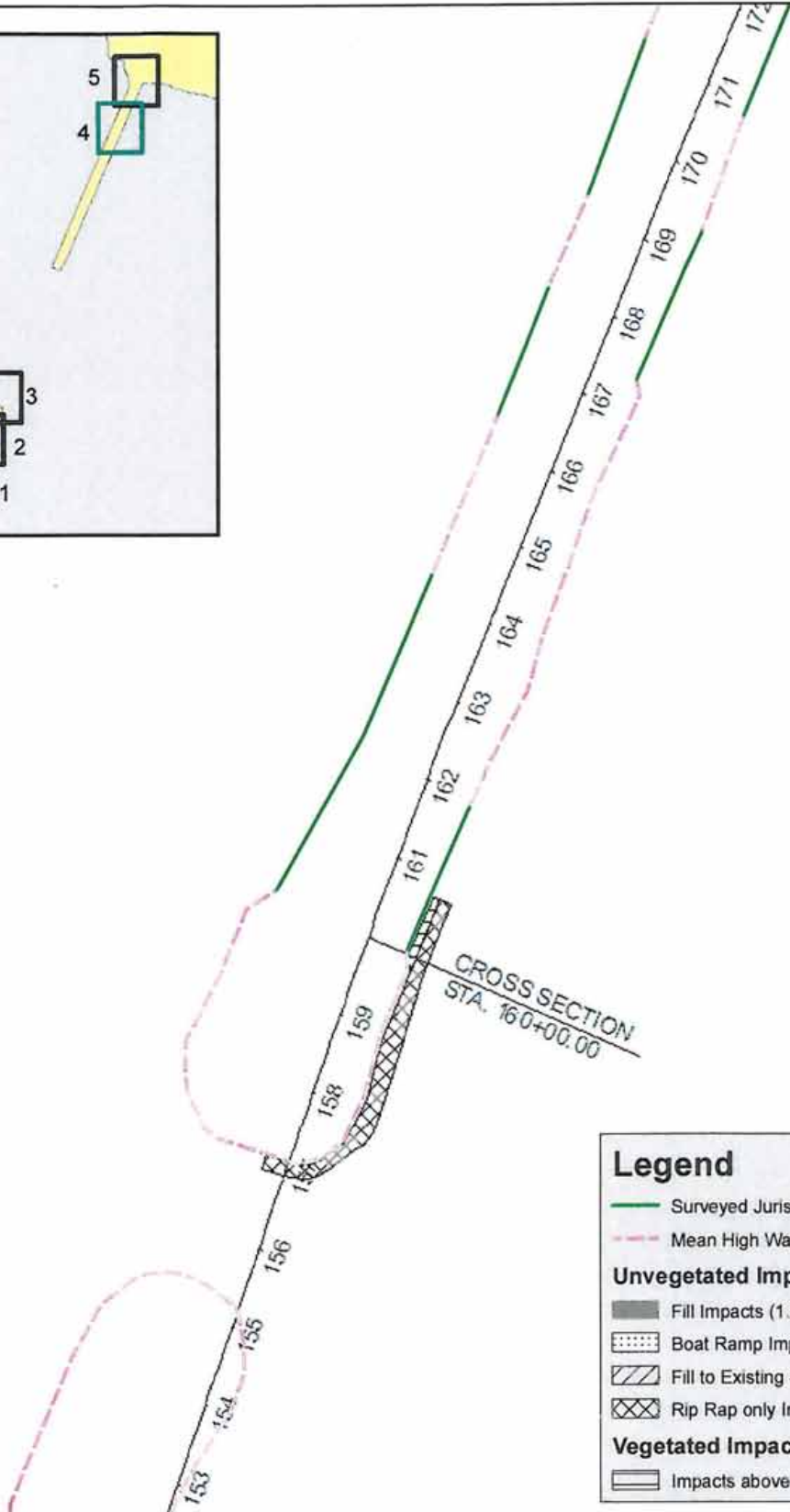
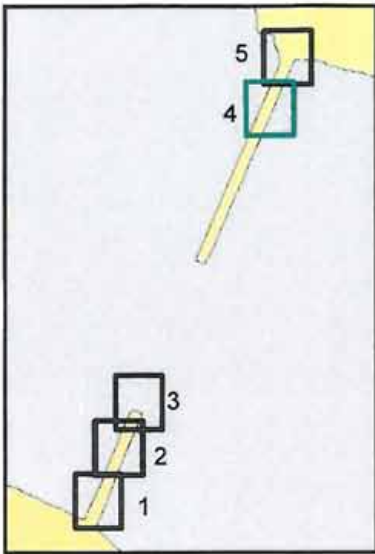
All data within this map are supplied as is, without warranty. This product has not been

**Figure 6 - Wetland Impact Map**  
 Sheet 3 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



### Legend

- Surveyed Jurisdictional Wetland Line
- - - - - Mean High Water Line

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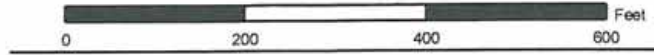
**Vegetated Impacts = 0.41 Ac.**

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**SCHEDA**  
 ECOLOGICAL  
 ASSOCIATES  
 www.scheda.com

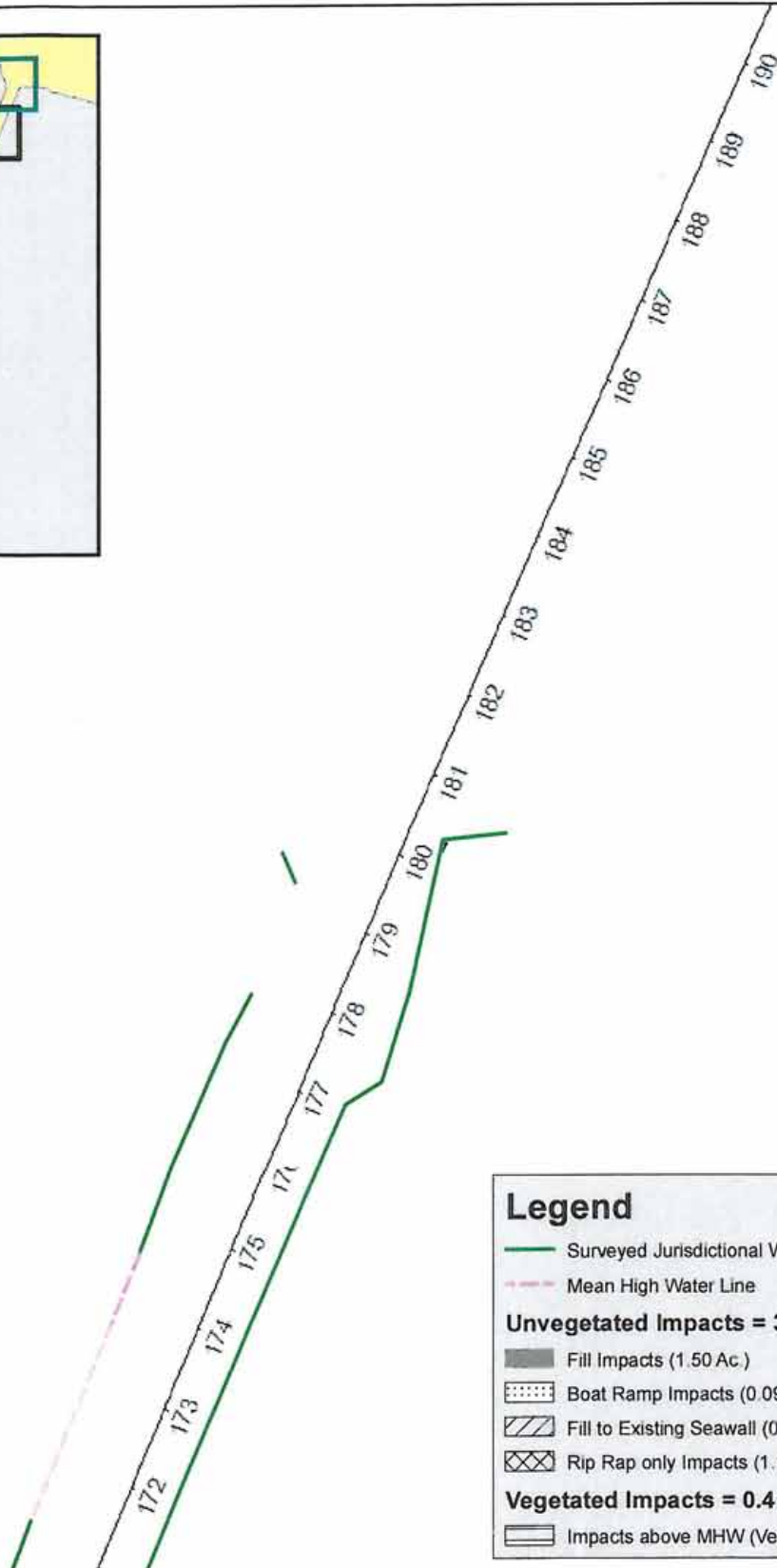
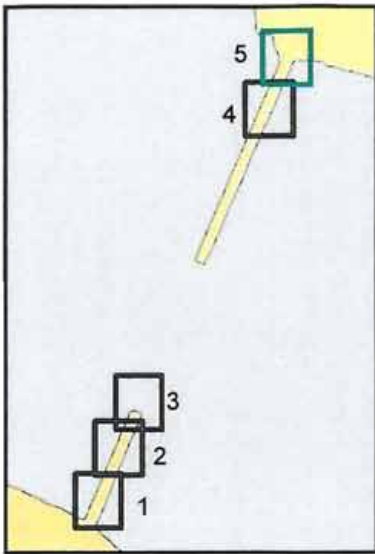
All data within this map are supplied as is, without warranty. This product has not been

**Figure 6 - Wetland Impact Map**  
 Sheet 4 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



**Legend**

- Surveyed Jurisdictional Wetland Line
- - - Mean High Water Line

**Unvegetated Impacts = 3.45 Ac.**

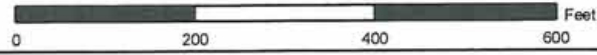
- Fill Impacts (1.50 Ac.)
- Boat Ramp Impacts (0.09 Ac.)
- Fill to Existing Seawall (0.74 Ac.)
- Rip Rap only Impacts (1.12 Ac.)

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**SCHEDA**  
 ECOLOGICAL  
 ASSOCIATES  
 www.scheda.com

**Figure 6 - Wetland Impact Map**  
 Sheet 5 of 5  
 FPID #: 220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida



Data Source:  
 -Parsons Brinckerhoff  
 Imagery Source:  
 -2013 FDOR

**N**

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



**FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

160 W. GOVERNMENT STREET, SUITE 308  
PENSACOLA, FLORIDA 32502-5740

RICK SCOTT  
GOVERNOR

CARLOS LOPEZ-CANTERA  
LT. GOVERNOR

HERSCHEL T. VINYARD JR.  
SECRETARY

**Permittee/Authorized Entity:**

Joy Swanson – Permits Coordinator  
Florida Department of Transportation – District 3  
1074 Highway 90 East  
Chipley, Florida 32428, Walton County  
[Joy.Swanson@dot.state.fl.us](mailto:Joy.Swanson@dot.state.fl.us)

**Project Name or Phase:**

FDOT – SR83/US 331 Choctawhatchee Bay Bridge

**Authorized Agent:**

N/A

**Environmental Resource Permit  
State-owned Submerged Lands Authorization – Granted**

**U.S. Army Corps of Engineers Authorization  
– Separate Corps Authorization Required**

Walton County  
Permit No.: 66-0274274-010-EI  
SSL Dedication No.: 24588 and 24588-A

**Permit Issuance Date: May 30, 2014**

**Permit Construction Phase Expiration Date: May 30, 2019**

*www.dep.state.fl.us*



## Consolidated Environmental Resource Permit and Sovereignty Submerged Lands Authorization

Permittee/Grantee: Joy Swanson, Permits Coordinator – FDOT District 3  
Permit No: 66-0274274-010-EI

### PROJECT LOCATION

The activities authorized by this permit and sovereignty submerged lands authorization are located along the SR83/US 331 Choctawhatchee Bay Bridge, between Santa Rosa Beach and Freeport, Florida, in Sections 4 and 29, Township 2S, Range 19W in Walton County, at lat 30° 24' 18.15"/long -86° 9' 59.85".

### PROJECT DESCRIPTION

The permittee is authorized to construct a park, a new northbound bridge on the east side of the current bridge, and reconstruction on the current causeway, for a distance of 3.4 miles, to provide a four lane evacuation route, including a stormwater management system. The project includes approximately 0.41 acres of impact to saltmarsh fringe wetlands, approximately 2.33 acres of fill impacts within sovereignty submerged lands, and 1.12 acres of riprap revetment within sovereignty submerged lands. The activities will occur within the landward extent of and within Choctawhatchee Bay, a Class II waterbody, conditionally approved (west side) and prohibited (east side) for shellfish harvesting. Activities are within the existing Sovereignty Submerged Lands Dedication Numbers 24588 and 24588-A to the State Road Department (now called the Florida Department of Transportation) to construct/improve/maintain SR 83. Authorized activities are depicted on the attached exhibits.

To offset 0.193 UMAM units of wetland functional loss from unavoidable impacts that will occur from these authorized activities, the permittee shall 1) purchase 0.07 estuarine UMAM mitigation credits from the Live Oak Peninsula mitigation bank; and 2) construct an oyster reef breakwater between PI STA 369+50 and PI STA 377+00, and enhance/create 0.89 acres of saltmarsh fringe wetlands and 0.14 acres of upland transitional area landward of the new and existing breakwaters by planting appropriate species of low marsh, high marsh, and transitional vegetation between PI STA 360+50 and PI STA 377+00 on the west side of the existing north causeway. Acreage of planted areas shall be as follows: low marsh (Zone A) – 0.27 acres (11,925 sq. ft.), high marsh (Zone B) – 0.48 acres (20,762 sq. ft.), and transitional area (Zone C) – 0.19 acres upland, 0.14 acres wetland (total 14,241 sq. ft.). Onsite mitigation details are depicted on the attached exhibits.

### AUTHORIZATIONS

**Project Name:** Choctawhatchee Bay Bridge

#### Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).



#### Sovereignty Submerged Lands Authorization

The activity is located on sovereignty submerged lands owned by the State of Florida. It therefore also requires authorization from the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), pursuant to Article X, Section 11 of the Florida Constitution, and Section 253.77, F.S. As staff to the Board of Trustees under Sections 253.002, F.S., the Department has determined that the activity is authorized under the existing Sovereignty Submerged Lands Dedication Numbers 24588 and 24588-A, as long as the work performed is located within the boundaries as described and is consistent with the terms and conditions herein.

#### Federal Authorization

A copy of this permit has been sent to the U.S. Army Corps of Engineers (USACE). The USACE may require a separate permit. Failure to obtain any required federal permits prior to construction could subject you to enforcement action by that agency.

#### Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

#### Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

#### Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

#### **PERMIT/SOVEREIGNTY SUBMERGED LANDS CONDITIONS**

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The General Conditions for Sovereignty Submerged Lands Authorization**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with

Permittee: Joy Swanson, Permits Coordinator -- FDOT District 3

Permit No: 66-0274274-010-EI

Page 3 of 17



US Army Corps  
of Engineers  
SAJ-2013-02362 (SP-JML)  
FDOT - US-331 Bridge  
Page #3 of 18 February 2, 2015  
Water Quality Certification  
Attachment # 2

these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit and sovereignty submerged lands authorization, as described.

#### **SPECIFIC CONDITIONS - PRIOR TO ANY CONSTRUCTION**

1. Prior to construction commencement, the permittee shall provide documentation that 0.07 estuarine credits were deducted from the Live Oak Peninsula UWRMP mitigation credit ledger pursuant to Specific Condition 12.
2. Best management practices (primarily turbidity screens) for erosion and turbidity control shall be installed prior to commencement of construction activities, and shall be maintained at all times during construction and operation of the permitted activity to prevent siltation and turbid discharges in excess of Class II state water standards pursuant to Chapter 62-302, F.A.C. The permittee shall be responsible for ensuring that erosion and turbidity control devices and procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges. Monitoring for turbidity shall be conducted in accordance with Specific Conditions 31 through 36.

#### **SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES**

3. For emergencies involving a serious threat to the public health, safety, welfare, or environment, the emergency telephone contact number is **800-320-0519** (State Warning Point). The Department telephone number for reporting nonthreatening problems or system malfunctions is (850) 595-0663, day or night
4. The construction phase expires at 11:59 p.m. on the date indicated on the cover page of this permit. If construction of the stormwater management system authorized by this environmental resource permit has not been completed and continued use of the system formally transferred to the operating phase before the expiration date of the permit, or an authorized extension, then at least 60 days before such expiration date, the permittee shall apply for another individual stormwater permit, using the forms and accompanied by the fee required by rules in effect at that time.
5. If the approved permit drawings conflict with the Specific Conditions, then the Specific Conditions shall prevail.
6. All wetland areas or waterbodies which are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, and/or dewatering.
7. There shall be no storage or stockpiling of tools, materials (i.e., pilings, debris) within wetlands, along the shoreline within the littoral zone or elsewhere within waters of the state unless specifically approved in the permit. All cleared vegetation, excess lumber, scrap wood, trash, garbage and any other type of debris shall be removed from wetlands/waters of the state within 14 days of completion of the work authorized in this permit.



8. All watercraft associated with the authorized construction activities shall only operate within waters of sufficient depth so as to preclude bottom scouring/prop dredging.
9. Any fill material used shall be clean fill and free of vegetative matter, trash, garbage, toxic or hazardous waste or any other unsuitable materials.
10. The riprap revetment shall be constructed in accordance with the specifications shown on the attached permit drawings.
11. Substances in concentrations which injure, are chronically toxic to, or produce adverse physiological or behavioral response in humans, animals, or plants – none shall be present.

#### **SPECIFIC CONDITIONS – MITIGATION**

12. Prior to construction commencement, the permittee shall provide documentation that 0.07 estuarine credits were deducted from the Live Oak Peninsula UWRMP mitigation credit ledger. Documentation may be emailed to [Andrew.Joslyn@dep.state.fl.us](mailto:Andrew.Joslyn@dep.state.fl.us) or mailed to FDEP, CAP, 160 W Government Street, Pensacola, FL 32502.
13. On-site mitigation planting and breakwater construction shall be completed no later than 30 days after bridge construction is completed. Planting and breakwater construction shall be completed/constructed as shown in the attached drawings.
14. Signs large enough to be legible by pedestrians shall be placed every 100 feet along the landward boundary of the mitigation area. Signs shall contain the following wording: “Wetland Conservation Area – removal or destruction of vegetation is prohibited”.
15. The on-site mitigation area shall be protected in perpetuity. However, if future bridge modifications require disturbance of the mitigation area described in this permit, the permittee shall submit a replacement mitigation plan to the Department for review and approval. The replacement mitigation plan shall offset the same amount and type of functional loss that is offset by the mitigation area proposed for disturbance, plus additional time lag and risk calculated in accordance with Chapter 62-345, F.A.C.
16. Upon completion of the mitigation planting and breakwater construction, a monitoring event shall be conducted within 60 days to create a Time Zero Monitoring Report. The Time Zero Monitoring Report shall contain:
  - a. Permanent fixed photostations at key vantage points throughout the wetland mitigation area;
  - b. An estimate of percent survivorship by species;
  - c. Herbaceous and shrub layer composition and percent cover of planted and recruited native species;
  - d. Herbaceous and shrub layer composition and percent cover of recruited nuisance and exotic vegetative species;
  - e. General notes on the average water depths, soil moisture conditions, and structural integrity of the oyster bag breakwaters; and
  - f. Incidental wildlife observations





17. The on-site mitigation area shall be monitored on a semi-annual basis for the first three years, with annual monitoring reports submitted to the Department within 30 days of the second monitoring event annually. If mitigation success is not reached after the first three years, monitoring shall continue on an annual basis until success is achieved. The semi-annual monitoring events shall be conducted in the spring and fall of each year, and annual monitoring reports shall be submitted after the fall monitoring event. The purpose of the monitoring is to evaluate the success of the mitigation sites in accordance with the success criteria in Specific Condition 19.
18. The annual monitoring report shall include the following:
- Maps showing the transect and photostation locations;
  - Summary of the results compared to permit success criteria;
  - Table comparing various success criteria parameters to prior sampling results;
  - Evaluation of the success of the maintenance efforts to date; and
  - Recommendation for any remedial actions that are necessary to ensure the success of the mitigation areas.
19. Mitigation success criteria is as follows:
- The mitigation area shall have at least 80% cover by appropriate wetland species (i.e., FAC, FACW, or OBL)
  - Cover of Category I and II invasive exotic plant species, pursuant to the most current list established by the Florida Exotic Pest Plant Council (FLEPPC) at [www.fleppc.org](http://www.fleppc.org), and the nuisance species common reed (*Phragmites australis*) and cattail (*Typha spp.*) shall not exceed 5 percent cover.
20. If the on-site mitigation fails to meet performance standards after five years, an alternative mitigation plan shall be submitted to the Department for review and approval.

#### **SPECIFIC CONDITIONS – CLASS II SHELLFISH HARVESTING WATERS**

21. An adequate number of self-contained sanitary facilities (i.e., portable toilets) shall be placed in upland areas during construction activities to prevent contamination of nearby conditionally approved shellfish harvesting waters.

#### **SPECIFIC CONDITIONS FOR LISTED SPECIES**

22. The Florida Fish and Wildlife Conservation Commission's (FWC) Manatee and Sea Turtle Construction Conditions for In-water Work Associated with Florida Department of Transportation Projects (2012) (Exhibit 3) shall be followed for all in-water activity.
23. The National Marine Fisheries Service (NMFS) Sea Turtle and Smalltooth Sawfish Construction Condition guidelines (Exhibit 4) shall be followed for all in-water activity.
24. The NMFS and US Fish and Wildlife Service (USFWS) Construction Special Provisions, Gulf Sturgeon Protection Guidelines (2012) (Exhibit 5) shall be followed for all in-water activity.
25. For the protection of Gulf sturgeon, no in-water work activities shall occur during the primary migration windows (during the months of March, April, September, or October).



26. Wildlife conservation measures for pile-driving activities under this authorization shall be submitted to the Department and the FWC at ([ImperiledSpecies@myfwc.com](mailto:ImperiledSpecies@myfwc.com)) for review and approval no later than 45 days prior to the scheduled commencement of the activities authorized in this permit. These conservation measures shall be submitted as a wildlife protection plan that summarizes the proposed offsetting measures from the sounds and pressure wave impacts associated with pile-driving. Examples include a monitoring/watch program, establishment of a safety zone, no in-water work windows, restriction of operating hours, and procedures for implementation of ramp-up and implementation of shutdown. After approval, the wildlife protection plan shall be followed for all pile-driving activities associated with this authorization.

27. To minimize lighting impacts to marine turtles, bridge lights that meet dark sky standards to minimize visibility from nearby sea turtle nesting beaches as well as their contribution to cumulative sky glow are recommended. The FWC ([ImperiledSpecies@myfwc.com](mailto:ImperiledSpecies@myfwc.com)) is available for consultation regarding wildlife-friendly lights, which include use of full cutoff, well-shielded fixtures fitted with long wavelength light sources, such as low pressure sodium or amber LED. High pressure sodium fixtures may be acceptable if well shielded, however metal halide lights are not recommended.

#### **SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES**

28. The 'Stormwater Operation/Maintenance Plan' (Exhibit 2), as approved and enclosed with this permit, shall be implemented.

29. The mailing address for submittal of forms for the "Construction Commencement Notice", "As-Built Certification ...", "Request for Conversion of Stormwater Management Permit Construction Phase to Operation and Maintenance Phase", or other correspondence is FDEP, SLERP, 160 W. Government Street, Pensacola, Florida, 32502.

#### **SPECIFIC CONDITIONS – TURBIDITY**

30. Best management practices (primarily turbidity screens) for erosion and turbidity control shall be implemented and maintained at all times during construction and operation of the permitted activity to prevent siltation and turbid discharges in excess of State water standards pursuant to Chapter 62-302, F.A.C. The permittee shall be responsible for ensuring that erosion and turbidity control devices and procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

31. Measurements must be acquired in adherence to the Department's Standard Operating Procedure (SOP) for field turbidity, available at the website: <http://www.dep.state.fl.us/water/sas/qa/docs/62-160/ft-1600-field-turbidity.pdf>. More specifically, the instruments used to measure turbidity shall be fully calibrated within one month prior to commencement of the project, and at least once a month thereafter during the project. Calibration shall be verified each morning prior to use, and after each time the instrument is turned on, using a turbidity "standard" that is different from the one used during calibration. Calibration procedures shall be recorded in a permanent logbook, and copies must be submitted with the data.



32. Monitoring for turbidity shall be conducted for the duration of the project. Sampling will commence prior to, but no more than 24 hours before initiation of any dredging or filling activities.

Turbidity sampling sites shall be located approximately 25 feet outside of the turbidity curtain at a point closest to any active construction activities at the center of any visible plume (if a plume is present). One sample for each construction area is required if construction activities are occurring at two different locations at the same time. These sites shall be established on a transect extending down current from the turbidity source.

Samples shall be collected from surface, mid-depth and one foot above bottom. Mid-depth samples are sufficient in water that is less than five feet deep. Sampling will be restricted to the axis of the visible plume. Samples will be collected at the intersection of the mixing zone boundary and a line parallel with the water current and extending from the source of turbidity if a plume is not visible.

Background samples shall be collected 100 feet upcurrent and outside of the turbidity curtain. These samples will be collected at surface, mid-depth, and one-foot above bottom.

Samples shall be collected with a Kemmerer, Van Dorn or a similar sampler that is designed to collect in situ water samples. Samples shall be analyzed immediately after collection with a turbidimeter that produces results in Nephelometric measurements. The field sample results shall be accurately recorded to the precision capabilities (decimal place) of the instrument. Field turbidimeter results shall be rounded to the next whole number (ex. 15.23 NTUs shall be recorded; however the results shall be interpreted as 16.00 NTUs). If monitoring reveals turbidity levels greater than or equal to 29 NTUs above background, the permittee shall cease all work pursuant to Specific Condition 36.

33. Turbidity monitoring reports shall be submitted to the Department each Monday following project commencement; reports shall include the permittee name and permit number. When submitting this information to the Department, please include, at the top of each page or as a cover page to the submittal: "This information is being provided in partial fulfillment of the monitoring requirements in Permit No. 66-0274274-010-EI." Failure to submit reports in a timely manner constitutes a violation of the permit and may be grounds for revocation. Reports may be submitted by email to [Andrew.Joslyn@dep.state.fl.us](mailto:Andrew.Joslyn@dep.state.fl.us).

34. Monitoring data shall contain the following information:

- a. Permit number;
- b. Dates of sampling and analysis;
- c. A statement describing the methods used in collection and analysis of the samples;
- d. A map showing the sampling locations, along with indicating the latitude and longitude;
- e. Copies of the Quality Assurance/Quality Control log; and
- f. A statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision and accuracy of the data;

35. Monitoring reports shall also include the following information for each sample that is taken:



- a. Time of day samples taken;
  - b. Depth of water body;
  - c. Depth of sample;
  - d. Tidal stage and direction of flow; and
  - e. Antecedent weather conditions, including wind direction and velocity.
36. If monitoring reveals turbidity levels greater than or equal to 29 NTUs above background levels, the permittee shall take the following measures:
- a. Immediately cease all work contributing to the water quality violation. Work which may contribute to the violation shall not resume until corrective measures have been taken and turbidity levels have returned to acceptable levels; and
  - b. Stabilize exposed soils contributing to the violation. Modify work procedures responsible for the violation, install additional turbidity containment devices, repair non-functioning turbidity containment devices; and
  - c. Increase monitoring frequency to every 2 hours until turbidity levels are less than 29 NTUs above background levels. Interim samples collected following the violation (s) shall be collected in the same manner and locations as the routine monitoring. Operations may not resume until the turbidity levels have returned to less than 29 NTUs above background.
  - d. The violation(s) shall be immediately reported to the Department. The report shall include the description of the corrective actions being taken or proposed to be taken. The report shall be made to the Department as soon as normal business hours resume if violation(s) are noted after normal business hours, on holidays, or on weekends. A copy of the monitoring data sheets, which indicate violation(s), shall be forwarded immediately to the Department. Reports and data may be submitted by email to [Andrew.Joslyn@dep.state.fl.us](mailto:Andrew.Joslyn@dep.state.fl.us).

Failure to report violation(s) or to follow correct procedures before resuming work shall constitute grounds for permit revocation and may subject the permittee to formal enforcement action.

#### **GENERAL CONDITIONS FOR INDIVIDUAL PERMITS**

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the



Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
  - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex -- "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
  - b. For all other activities -- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
  - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
  - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume 1) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
  - b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the



documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
  - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
  - b. Convey to the permittee or create in the permittee any interest in real property;
  - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
  - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
  - a. Immediately if any previously submitted information is discovered to be inaccurate; and
  - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If



unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

#### **GENERAL CONDITIONS FOR SOVEREIGNTY SUBMERGED LANDS AUTHORIZATION**

Any use of sovereignty submerged lands is subject to the following general conditions are binding upon the applicant and are enforceable under Chapter 253, F.S.

1. Sovereignty submerged lands may be used only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use will constitute a violation. Violation of the authorization will result in suspension or revocation of the applicant's use of the sovereignty submerged lands unless cured to the satisfaction of the Board of Trustees.
2. Authorization under Rule 18-21.005, F.A.C., conveys no title to sovereignty submerged lands or water column, nor does it constitute recognition or acknowledgment of any other person's title to such land or water.
3. Authorizations under Rule 18-21.005, F.A.C., may be modified, suspended or revoked in accordance with its terms or the remedies provided in Sections 253.04, F.S. and Chapter 18-14, F.A.C.
4. Structures or activities will be constructed and used to avoid or minimize adverse impacts to resources.



5. Construction, use, or operation of the structure or activity will not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.
6. Structures or activities will not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity will be modified in accordance with the court's decision.
7. Structures or activities will not create a navigational hazard.
8. Structures will be maintained in a functional condition and will be repaired or removed if they become dilapidated to such an extent that they are no longer functional.
9. Structures or activities will be constructed, operated, and maintained solely for water dependent purposes.
10. The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.
11. Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.
12. Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.
13. All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorization. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.
14. This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.





## NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

### Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

### Time Period for Filing a Petition

In accordance with subsection 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in



this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

#### Extension of Time

Under subsection 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

#### Mediation

Mediation is not available in this proceeding.

#### FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

#### Judicial Review

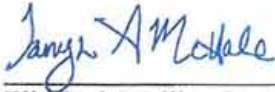
Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.



If you have any questions regarding this matter, please contact Heather Mason for Wetland/SSL matters at the letterhead address, at (850) 595-0608, or by e-mail at [Heather.Mason@dep.state.fl.us](mailto:Heather.Mason@dep.state.fl.us). For any stormwater matters, please contact Rich Boelens at the letterhead address, at (850) 595-0567, or by e-mail at [Richard.Boelens@dep.state.fl.us](mailto:Richard.Boelens@dep.state.fl.us).

Executed in Escambia County, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



For Elizabeth Mullins Orr  
Program Administrator  
Water Resource Management

**Enclosures:**

- Exhibit 1, Project Drawings, 62 pages
- Exhibit 2, Stormwater Operation/Maintenance Plan, 1 page
- Exhibit 3, Manatee and Sea Turtle Construction Conditions for In-water Work Associated with Florida Department of Transportation Projects (2012), 2 pages
- Exhibit 4, Sea Turtle and Smalltooth Sawfish Construction Condition guidelines, 1 pages
- Exhibit 5, Construction Special Provisions, Gulf Sturgeon Protection Guidelines, 2 pages

Copies of 62-330 forms can be obtained at:  
<http://www.dep.state.fl.us/water/wetlands/erp/forms.htm>

**cc:**

DEP, Office of General Counsel  
Melinda Witgenstein, U.S. Army Corps of Engineers ([melinda.m.witgenstein@usace.army.mil](mailto:melinda.m.witgenstein@usace.army.mil))  
FWC, Imperiled Species Management Section  
Walton County  
Department of Economic Opportunity  
Shane Supple, Walton County Recreation Department ([supshane@co.walton.fl.us](mailto:supshane@co.walton.fl.us))  
Charles Rudie, Parsons Brinckerhoff ([rudie@pbworld.com](mailto:rudie@pbworld.com))  
John Littlefield, Parsons Brinckerhoff ([littlefiel@pbworld.com](mailto:littlefiel@pbworld.com))  
Sandra Scheda Klaus, Scheda Ecological Associates, Inc. ([sscheda@scheda.com](mailto:sscheda@scheda.com))  
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Brandon Gray, Scheda Ecological Associates, Inc. ([bgray@scheda.com](mailto:bgray@scheda.com))  
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Lisa Gregg, FWC ([lisa.gregg@myfwc.com](mailto:lisa.gregg@myfwc.com))

Permittee: Joy Swanson, Permits Coordinator – FDOT District 3  
Permit No: 66-0274274-010-EI  
Page 16 of 17



US Army Corps  
of Engineers  
SAJ-2013-02362 (SP-JML)  
FDOT – US-331 Bridge  
Page #16 of 18 February 2, 2015  
Water Quality Certification  
Attachment # 2

Mary Duncan, FWC ([mary.duncan@myfwc.com](mailto:mary.duncan@myfwc.com))  
Jeff Wilcox, FWC ([jeff.wilcox@myfwc.com](mailto:jeff.wilcox@myfwc.com))  
Mary Mittaga, USFWS ([mary.mittaga@fws.gov](mailto:mary.mittaga@fws.gov))  
Diana Ferrell, Interested Party ([diana.ferrell@yahoo.com](mailto:diana.ferrell@yahoo.com))  
File

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit and authorization to use sovereignty submerged lands, including all copies, were mailed/emailed before the close of business on May 30, 2014, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under 120.52(7), F.S.,  
with the designated Department Clerk,  
receipt of which is hereby acknowledged.

Brandy Bass  
Clerk

5/30/2014

Date

68 pages attached



Exhibit 2

STORMWATER OPERATION / MAINTENANCE PLAN

AFTER EACH RAINFALL EVENT

1. **Debris in retention/detention areas** – All debris and foreign material shall be removed immediately
2. **Yard Inlets, Catch Basins, etc.** – All debris and foreign materials shall be removed immediately

PERIODIC POND/SYSTEM MAINTENANCE

1. Cleaning/sweeping of pavement areas shall be accomplished monthly if needed.
2. Inspect pond periodically for accumulation of trash and debris and schedule removal activities prior to the next inspection.
3. Mowing and landscaping maintenance should be done no less than three (3) times during the active growing season for this area.
4. Weeds or undesirable growth shall be removed during the next periodic mowing/clean up cycles.
5. Catch basins shall be flushed as necessary (if any).
6. The Maintenance Entity shall re-grade and re-stabilize swale/retention/detention areas as required to maintain the approved design, cross-section, line, and grade.
7. Remove sediment from pond when accumulation reaches four (4) inches. Measure accumulation once a year.

INSPECTIONS

1. A maintenance inspection must be performed by a registered professional, **one year** after conversion to the Operation Phase and then **every five years thereafter**.
2. The inspection must be conducted using the plans, calculations and specifications approved by the Agency.
3. The maintenance inspection must be documented on Form 62-330.311(1), "Operation and Maintenance Inspection Certification". The inspection Form must be maintained and made available to Agency staff upon request.



## STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at [ImperiledSpecies@myFWC.com](mailto:ImperiledSpecies@myFWC.com)
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at [MyFWC.com/manatee](http://MyFWC.com/manatee). Questions concerning these signs can be sent to the email address listed above.





# CAUTION: MANATEE HABITAT

All project vessels

**IDLE SPEED / NO WAKE**

When a manatee is within 50 feet of work  
all in-water activities must

**SHUT DOWN**

Report any collision with or injury to a manatee:

**Wildlife Alert:**

**1-888-404-FWCC(3922)**

cell \*FWC or #FWC





UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southeast Regional Office  
263 13th Avenue South  
St. Petersburg, FL 33701

## SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc





**STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE**  
**U.S. Fish and Wildlife Service**  
**August 12, 2013**

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: [jaxregs@fws.gov](mailto:jaxregs@fws.gov); South Florida Field Office: [verobeach@fws.gov](mailto:verobeach@fws.gov); Panama City Field Office: [panamacity@fws.gov](mailto:panamacity@fws.gov)). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or “approval” from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or “approval” from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via e-mail, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

### **POSTER INFORMATION**

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11” x 17” or larger paper and laminated, is attached):

**DESCRIPTION:** The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

**SIMILAR SNAKES:** The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

**LIFE HISTORY:** The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands



US Army Corps  
of Engineers

SAJ-2013-02362 (SP-JML)

FDOT – US-331 Bridge

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Eastern Indigo Snake Standard Protection Measure

Attachment # 5

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

**PROTECTION UNDER FEDERAL AND STATE LAW:** The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of \$25,000 for civil violations and up to \$50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

**IF YOU SEE A LIVE EASTERN INDIGO SNAKE ON THE SITE:**

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

**IF YOU SEE A DEAD EASTERN INDIGO SNAKE ON THE SITE:**

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

**Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:**

**North Florida Field Office – (904) 731-3336**  
**Panama City Field Office – (850) 769-0552**  
**South Florida Field Office – (772) 562-3909**



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Page #2 of 3 February 2, 2015

Eastern Indigo Snake Standard Protection Measures

Attachment # 5

## **PRE-CONSTRUCTION ACTIVITIES**

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.
2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.
3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

## **DURING CONSTRUCTION ACTIVITIES**

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).
2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.
3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

## **POST CONSTRUCTION ACTIVITIES**

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.



**AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER**

Submit this form and one set of as-built engineering drawings to the U.S. Army Corps of Engineers, Enforcement Section, 41 North Jefferson St., Suite 301, Pensacola, FL 32502 . If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-3131.

1. Department of the Army Permit Number: SAJ-2013-02362 (SP-JML)

2. Permittee Information:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

3. Project Site Identification (physical location/address):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. As-Built Certification: I hereby certify that the authorized work, including any mitigation required by Special Conditions to the permit, has been accomplished in accordance with the Department of the Army permit with any deviations noted below. This determination is based upon on-site observation, scheduled, and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

\_\_\_\_\_  
Signature of Engineer

\_\_\_\_\_  
Name (*Please type*)

\_\_\_\_\_  
(FL, PR, or VI) Reg. Number

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
ZIP

(Affix Seal)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone Number





**COMPENSATORY MITIGATION PLAN  
FOR  
SR 83 (US 331) CHOCTAWHATCHEE BAY BRIDGE  
SAJ-2013-02362**

**Financial Project ID No. 220664-2**

**Walton County, Florida**

**Prepared for:**

Florida Department of Transportation  
District Three  
1074 Highway 90 East  
Chipley, Florida 32428

**Submitted To:**

U.S. Army Corps of Engineers  
North Permits Branch  
Panama City Permits Section  
1002 West 23rd Street, Suite 350  
Panama City, FL 32405

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5892 East Fowler Avenue  
Tampa, FL 33617

**September 2014**



US Army Corps  
of Engineers

SAJ-2013-02362 (SP-JML)

FDOT - US-331 Bridge

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Mitigation Procedures/Plan/Asso. Mitigated Actions

Attachment #7

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Appendix B. Wetland Mitigation Plans



## 1.0 OBJECTIVES

The objective of the wetland mitigation plan is to ensure that the 0.20 Functional Loss (FL) units of wetland impacts associated with the above referenced project will be adequately compensated for, and to ensure that there will be no net loss of wetlands. Compensation for the wetland impacts will consist of a combination of purchasing saltmarsh mitigation credits from the Live Oak Point Mitigation Bank, which is managed by the Northwest Florida Water Management District (NFWFMD), and the onsite enhancement of up to 0.89 acres of shoreline along the western portion of the northern causeway to be converted from barren surface water areas to a saltmarsh habitat (Tables 2 and 3). Additionally, 0.19 acres of upland buffer adjacent to the wetland enhancement areas will be enhanced via nuisance vegetation removal and replanting with desirable upland transitional vegetation. A map depicting the approximate location of the onsite wetland enhancement areas is located in Figures 1 and 2. The Live Oak Point Mitigation Bank is located approximately 5.00 miles west of the project within the Choctawhatchee Bay Watershed.

### Target Objectives

Target objectives for the enhancement area shall consist of:

- At least 80 percent cover by appropriate wetland species (i.e., FAC or wetter); and
- Cover of Category I and II invasive exotic plant species, pursuant to the most current list established by the Florida Exotic Pest Plant Council (FLEPPC) at <http://www.fleppc.org>, and the nuisance species, common reed (*Phragmites australis*) and cattail (*Typha* spp.) shall not exceed 5 percent.

## 2.0 SITE SELECTION

Several potential mitigation alternatives were explored prior to selecting this mitigation site. Per the 2008 Final Compensatory Mitigation Rule (40 CFR Section 230) which established a preferred hierarchy of mitigation options. The preferred hierarchy is as follows:

- mitigation bank credits;
- in-lieu fee program credits;
- permittee-responsible mitigation under a watershed approach;
- permittee-responsible mitigation through on-site and in-kind mitigation; and
- permittee-responsible mitigation through off-site and/or out-of-kind mitigation.





A search on the Regulatory In-lieu Fee and Bank Information Tracking System (RIBITS) concluded that there are no federally permitted mitigation banks within this watershed with estuarine emergent credits. Therefore, this option would require regulatory approval of a project cumulative impact analysis for out-of-basin mitigation, therefore, it was not pursued.

The NFWFMD maintains a wetland mitigation bank for FDOT wetland impacts located at Live Oak Point Mitigation, but currently only contains 0.07 of estuarine emergent credits, as the remainder of the bank's mitigation credits were purchased to offset impacts associated with other portions of SR 83 / US331. Therefore, a total of 0.07 credits will be purchased from this bank, leaving a remainder of 0.13 credits to be compensated elsewhere.

Permittee-responsible mitigation was therefore the most viable alternative to achieve the remaining mitigation requirement. Onsite mitigation opportunities in the form of wetland enhancement in the footprint of some the docks and boat ramp structures to be demolished as part of the project have been evaluated. Following the removal of existing structures, these areas could be replanted with native wetland species along with creating an oyster bag breakwater to reduce erosion, thereby restoring and enhancing the natural shoreline.

### 3.0 SITE PROTECTION INSTRUMENT

The Live Oak Point Mitigation Area is already placed under a perpetual conservation easement. There are no plans to expand the causeway or bridge structures in the near future; therefore, the onsite wetland enhancement areas will remain protected. Additionally, wetland mitigation signs, stating "This is a restrictive area – entry, removal, or destruction of vegetation is prohibited per Section 704.06 Florida Statutes" or similar language will be installed around the perimeter of the on-site mitigation areas.

### 4.0 BASELINE INFORMATION

The wetland areas targeted for enhancement currently consist of virtually unvegetated barren sand and riprap areas, along with areas of existing boat ramps (2,579 square feet) and docks (18,646 square feet). Occasional, vegetation consists of a mixture of salt grass (*Distichlis spicata*), torpedo grass (*Panicum repens*), and Bermuda grass (*Cynodon dactylon*). These wetland areas generally contain a subtle slope transitioning into the water and contain up to 2.5 feet water depth at the waterward limits. These areas were delineated in accordance with Chapter 62-340, F.A.C. and using a combination of MHW lines (in unvegetated areas) and wetland delineation methods (in



vegetated areas). Additionally, a wrack line was observed along the shoreline and generally coincided with the established jurisdictional limits.

The upland buffers are currently sparsely vegetated with a mixture of bahia grass (*Paspalum notatum*) and Bermuda grass. Additionally, these areas currently contain several park facilities, such as picnic pavilions, docks, and a restroom facility.

## 5.0 DETERMINATION OF CREDITS

The mitigation plan calls for the enhancement of wetlands and is intended to ensure that there will be no net loss in the overall areal extent of wetlands within this watershed and compensates for any loss in wetland function associated with the unavoidable wetland impacts. The wetland mitigation plan will create a viable saltmarsh system.

Pursuant to Chapter 62-345, F.A.C., Uniform Mitigation Assessment Methodology (UMAM), datasheets were utilized to calculate the functional gain (FG) associated with the proposed mitigation activities. The wetland enhancement areas were scored for their, with and without, mitigation based on location and landscape support, water environment, and community structure. Supporting information for each of these categories can be found in part 1 and part 2 of the UMAM datasheets provided in **Appendix A**. A time lag of 1.07 (3 years) was used for the wetland enhancement areas since, as these areas already contain wetland conditions, and the additional planted vegetation will serve to supplement the existing conditions.

Results of the UMAM analysis indicated that the proposed mitigation activities would result in 0.15 FG units for the on-site wetland enhancement areas. As 0.07 FG units of credits are proposed to be purchased at the Live Oak Point Mitigation Bank, only a portion of the wetland enhancement areas are to offset the remaining 0.13 FG units that are required. The additional 0.02 FG units will be used as part of the adaptive management plan (as needed), and will not be available for credit on future projects.

## 6.0 MITIGATION WORK PLAN

The following outlines the general timeline and work plan associated with the 0.89-acre wetland enhancement area. The wetland enhancement area is located from approximately Station 160+50 to 177+00 on the northwest shoreline on the northern causeway and within approximately 30 feet waterward of the wetland limits. The mitigation plan is located in **Appendix B**. The following describe



- Initially, silt fencing and turbidity curtains will be installed throughout the work limits.
- The existing park facility structures will be removed, demolished, and returned to existing grade.
- All nuisance and/or exotic vegetation will be eradicated via light mechanical clearing and re-grading, selective application of herbicides labeled for aquatic use, or manually removed depending upon accessibility and logistics. Nuisance and/or exotic removal will be performed under the supervision or guidance of a qualified environmental professional.
- Oyster shell hash will be placed into a fine nylon mesh bag and secured via zip ties on both ends in the upland areas. The oyster bags will then be stacked approximately 30 feet waterward of the wetland line and parallel to the shoreline to an elevation of +0.75 feet NAVD88 (just above MHW of +0.67 feet) to create a breakwater to reduce erosion along the shoreline and allow for native wetland plants to become established.
- Wetland and upland transitional plantings, such as smooth cordgrass, saltmarsh cordgrass, consisting of 2" cells or bare root plants will be installed.

The following table lists the anticipated implementation schedule of the proposed mitigation activities:

<b>Anticipated Date</b>	<b>Activity</b>
0	Permit Issuance
0 - 75 days	Obtain local land disturbance permits, and
	Mobilization of contractor and equipment, and
	Install all silt fencing and floating turbidity barriers
75 - 100 days	Clear, excavate, and grade wetland enhancement areas
	Flag any trees and shrubs to be saved
100 – 110 days	Generate and review wetland mitigation as-built survey and submit to FDEP and USACE
110 - 155	Perform pre-planting maintenance in wetland enhancement areas
	Plant all wetland enhancement and upland enhancement areas.
	Conduct and submit Mitigation Completion Report / Time Zero Report to USACE
	Provide watering events for the plantings (as-needed)
	5-year monitoring and maintenance begins



## 7.0 MAINTENANCE PLAN

The wetland enhancement areas will be maintained via herbicides on a quarterly schedule for the first year, then semi-annually until released from monitoring and reporting requirements. Species to be targeted include *Phragmites*, and other nuisance and exotic species.

Following the completion of the grading activities and verification that the mitigation area has been constructed in accordance with the mitigation plans, a pre-planting maintenance event will be conducted to clear undesirable vegetation from the planting areas. The proposed planting plan will be installed within one week following the pre-planting maintenance event. Following installation of the planting material the plants will be thoroughly watered and followed with additional watering events, as necessary. The mitigation area will be maintained by a Florida licensed Natural Areas herbicide applicator.

## 8.0 PERFORMANCE STANDARDS

For all of the mitigation areas the following performance standards will be achieved to be considered a successful mitigation project:

1. The mitigation areas can be reasonably expected to develop into estuarine emergent wetlands (EEM), as determined by the United States Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States.
2. Topography, water depth, and water level fluctuations in the mitigation areas are characteristic of the wetland/surface water type specified in criterion "1".
3. The wetland mitigation areas can be determined to be a wetland or other surface water according to Chapter 62-340, Florida Administrative Code.
4. At least 80 percent cover by appropriate wetland species (i.e., FAC or wetter)
5. Cover of Category I and II invasive exotic plant species, pursuant to the most current list established by the Florida Exotic Pest Plant Council (FLEPPC) at <http://www.fleppc.org>, and the nuisance species, common reed (*Phragmites australis*), dog fennel (*Eupatorium capillifolium*), and cattail (*Typha* spp.) shall not exceed 5 percent.

## 9.0 MONITORING REQUIREMENTS

Upon determination that the mitigation area has been constructed and planted correctly, a monitoring event will be conducted within 60 days to fulfill the Wetland Mitigation Completion Report and Time Zero Monitoring Report requirements per the



USACE's permit conditions, respectively. The formal mitigation program will be initiated upon the agency's review and approval of the Wetland Mitigation Completion/ Time Zero Monitoring report.

Monitoring methods will document that the target community will resemble representative communities with respect to plant community structure and species composition. Additionally, general notes will be recorded on the average water depths and soil moisture conditions. Several permanent fixed photostations will be installed throughout the mitigation area and additional representative photographs will also be collected and presented in the all subsequent monitoring reports. Qualitative estimations of the following parameters will also be collected along each transect:

- species survivorship estimations;
- herbaceous and shrub layer composition and percent cover of planted and recruited native vegetative species;
- herbaceous and shrub layer composition composition and percent cover of recruited nuisance and exotic vegetative species; and
- incidental wildlife observations

The wetland enhancement area will be semi-annually monitored for five years, with annual monitoring reports to be submitted to the USACE. In general, the semi-annual monitoring events will be conducted in the spring and fall of each year. If the site has not reached its success criteria at the conclusion of the 5 year monitoring period, the monitoring and reporting interval will be conducted annually in the fall of each year until released from future monitoring and reporting requirements. Composition of desirable wetland and nuisance and/or exotic vegetation will be qualitatively estimated within the limits of the mitigation area and compared with the success criteria. Additionally, field observations of wildlife utilization, hydrology, and issues with erosion or oyster bag structural integrity will be reported in each annual monitoring report.

Utilizing the monitoring protocol described above, an annual monitoring report will be submitted to the USACE. The reports will include:

- Maps showing the transect and photostation locations;
- Summary of the results compared to permit success criteria;
- Table comparing various success criteria parameters to prior sampling results;
- Evaluation of the success of the maintenance efforts to date; and
- Recommendations for any remedial actions that is necessary to ensure the success of the mitigation areas.



## 10.0 LONG TERM MANAGEMENT PLAN

Once the saltmarsh has reached its success criteria and become established there is minimal long-term management required. Long term management may consist of annual inspections to ensure that erosion is minimal and/or the oyster bags are structurally intact.

## 11.0 ADAPTIVE MANAGEMENT PLAN

The results of the quantitative and qualitative observations obtained during the required monitoring events associated with the mitigation area will be carefully considered to implement the necessary adaptive management strategies to ensure the site's success. The information used to adapt management practices for the mitigation may include results of formal research, monitoring results, or general observations of the ecologists reviewing the site. In all unexpected scenarios, the best available science and judgment will be used to come up with innovative and permissible solutions.

In general, if wetland enhancement areas fail to meet its performance standards, alternative areas along the causeway could be identified for enhancement via the eradication of nuisance species, restoration/enhancement of shoreline, or creation of wetlands from upland in areas where there are no utility conflicts. Additionally, the mitigation plan creates an excess of 0.02 FG units of mitigation lift above and beyond the required 0.20 FL units required to adequately offset the wetland impacts associated with this project. These excess credits could be used as a contingency to offset up to 15 percent of any failed onsite mitigation areas.

## 12.0 FINANCIAL ASSURANCES

The overall construction cost is less than \$25,000.00 therefore no financial assurance is required. Additionally, FDOT is a state-funded agency that will maintain its commitments and appropriately fund the required mitigation needs.



## Tables

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- Table 1. On-site Wetland Mitigation Summary  
Table 2. Off-site Wetland Mitigation Summary



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**TABLE 1 - PROJECT ON-SITE MITIGATION SUMMARY**

MITIGATION ID	UMAM ASSESSMENT AREA NAME(S)	TARGET TYPE	CREATION	RESTORATION	ENHANCEMENT	WETLAND PRESERVE	UPLAND PRESERVE	OTHER
			AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)
WEA 1	WEA 1	642			0.89		0.19	
<b>PROJECT TOTALS</b>					<b>0.89</b>		<b>0.19</b>	

COMMENTS: 0.89 acres of wetland enhancement via breakwaters, nuisance species removal, and supplemental wetland planting. 0.19 acres of upland buffer enhancement via nuisance species removal and upland plantings.

Codes (multiple entries per cell not allowed):

- Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation


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**TABLE 2 - PROJECT OFF-SITE MITIGATION SUMMARY**

MITIGATION ID	UMAM ASSESSMENT AREA NAME(S)	TARGET TYPE	CREATION	RESTORATION	ENHANCEMENT	WETLAND PRESERVE	UPLAND PRESERVE	OTHER
			AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)	AREA (acres)
Live Oak Point	n/a	642	0.07					
<b>PROJECT TOTALS</b>			<b>0.07</b>					

**COMMENTS:** Acreage unknown, 0.07 FG units/credits will be purchased from this bank.

Codes (multiple entries per cell not allowed):

- Target Type or Type=target or existing habitat type from an established wetland classification system or land use classification for non-wetland mitigation

## Figures

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- Figure 1. Project Aerial Map
- Figure 2. Conceptual Wetland Mitigation Plan



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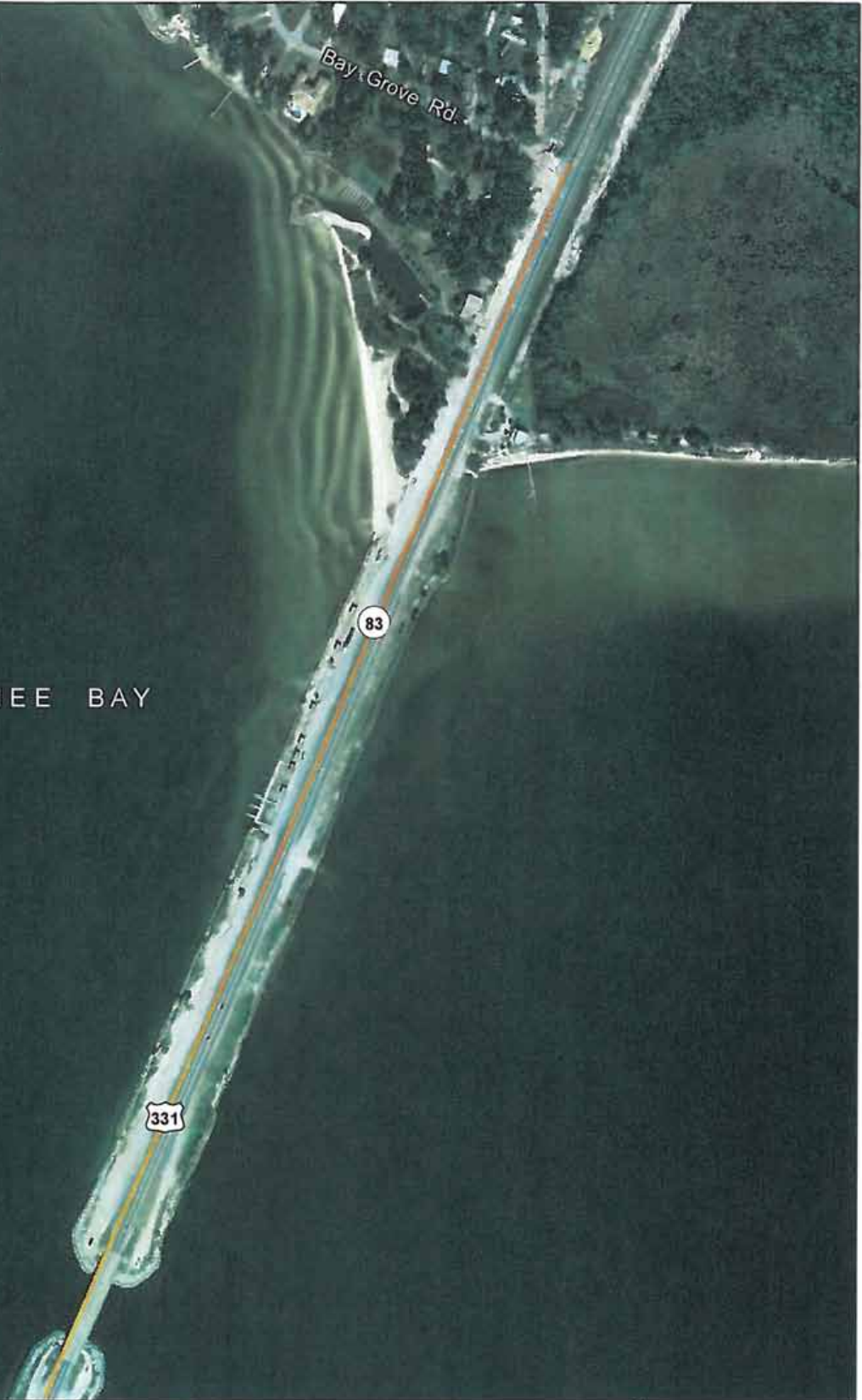
Mitigation Procedures/Plan/Asso. Mitigated Actions

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# Legend

— Approximate Project Limits

CHOCTAWHATCHEE BAY



### Figure 1 - Project Aerial Map

FPID #: 220664-2

Sheet 1 of 1

SR 83 (US 331) Choctawhatchee Bay Bridge  
Test Pile Program  
Walton County, Florida

Data Source:  
-Scheda Field Observations  
Imagery Source:  
-2013 FDOR true color

Coordinate System:



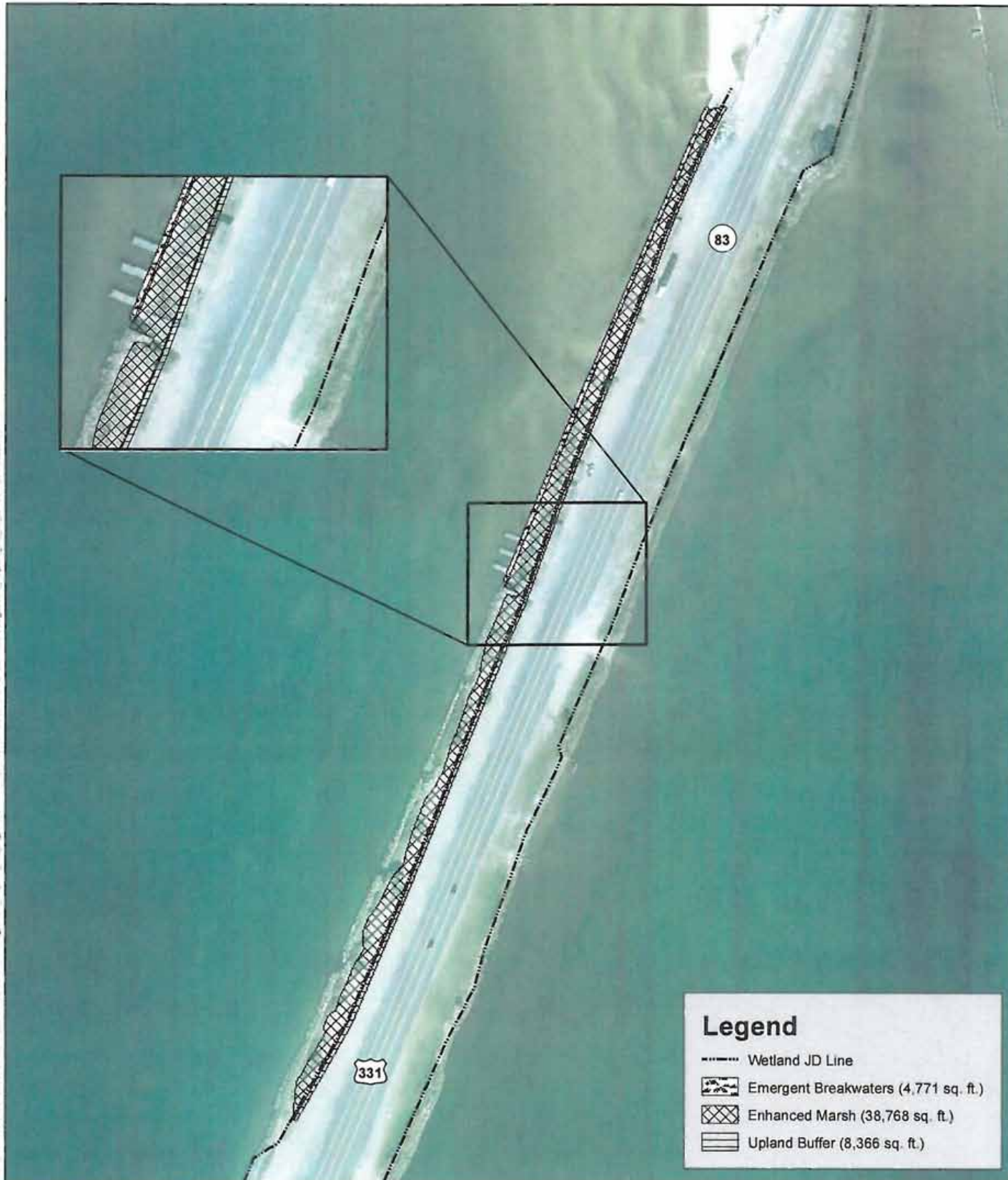
US Army Corps  
of Engineers

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Attachment # 7



**Legend**

- Wetland JD Line
- Emergent Breakwaters (4,771 sq. ft.)
- Enhanced Marsh (38,768 sq. ft.)
- Upland Buffer (8,366 sq. ft.)

**Figure 2 - Wetland Mitigation Map**

FPID #:220664-2  
 SR 83 (US 331) Choctawhatchee Bay Bridge  
 Walton County, Florida

Data Source:  
 -Scheda 2013  
 Imagery Source:  
 -2013 FDOR true color

Coordinate System:  
 NAD 1983 Florida  
 State Plane North



## Appendices

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Appendix A. UMAM forms

Appendix B. Wetland Mitigation Plans



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# APPENDIX A



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**PART I – Qualitative Description  
(See Section 62-345.400, F.A.C.)**

Site/Project Name SR83 (US 331) Choctawhatchee Bay Bridge		Application Number	Assessment Area Name or Number Wetland Enhancement Area 1
FLUCCs code 642	Further classification (optional) Saltmarsh (E2EM1)	Impact or Mitigation Site? Mitigation	Assessment Area Size 0.89
Basin/Watershed Name/Number Choctawhatchee Bay	Affected Waterbody (Class) II Prohibited	Special Classification (i.e. OFW, AP, other local/state/federal designation of importance) n/a	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands			
<p>Not directly connected with any offsite wetlands. Hydrologically connected to Choctawhatchee Bay, which is tidally influenced by the Gulf of Mexico via the East Pass to the west of Destin (approximately 20 nautical miles to the west) and primarily receives freshwater inputs from the Choctawhatchee River (approximately 2.2 nautical miles to the east) and from direct runoff into the Bay. Choctawhatchee Bay is connected to two other waterways at either end of the bay, the Intracoastal Waterway at the east end (below the river delta) which connects with West Bay in Panama City through a dredged navigation channel and to Santa Rosa Sound on the western end. This project is located within the Choctawhatchee Bay Watershed (USGS Cataloging Unit, 03140102), and located entirely in Class II Prohibited waters. In addition, none of the systems within the project area are located within Outstanding Florida Waters (OFW) or Aquatic Preserves (AP). Adjacent uplands consist of maintained (via mowing) ROW shoulders and paved roadway.</p>			
Assessment area description			
<p>The assessment area is located from the southern limits of the existing boat ramp to approximately 800 feet northeast, 865 feet to the southwest, and from the wetland line to approximately 28 feet waterward. Currently consists of predominantly (90%) bare sand and open water, with minor amounts of salt grass, torpedo grass, and Bermuda grass. Currently, a concrete boat ramp and associated finger boardwalks are located within a portion of this assessment area. This AA includes the area associated with the emergent breakwaters.</p>			
Significant nearby features		Uniqueness (considering the relative rarity in relation to the regional landscape.)	
Choctawhatchee Bay, Choctawhatchee River, and Intracoastal Waterway		common	
Functions		Mitigation for previous permit/other historic use	
shoreline protection and stabilization, water quality/nutrient treatment		n/a	
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found )		Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)	
wading bird species		occasional low quality foraging habitat for various wading bird species (SSC) and wood stork (E)	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.):			
None			
Additional relevant factors:			
None			
Assessment conducted by:		Assessment date(s):	
Scheda Ecological Associates, Inc.		10/29/2013	



**PART II – Quantification of Assessment Area (impact or mitigation)**  
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name SR83 (US 331) Choctawhatchee Bay Bridge	Application Number	Assessment Area Name or Number Wetland Enhancement Area 1
Impact or Mitigation Mitigation	Assessment conducted by: Scheda Ecological Associates	Assessment date: 10/29/2013

<b>Scoring Guidance</b> The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	<b>Optimal (10)</b>	<b>Moderate(7)</b>	<b>Minimal (4)</b>	<b>Not Present (0)</b>
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support  w/o pres or current <table border="1"> <tr> <td>6</td> <td>with</td> </tr> <tr> <td></td> <td>9</td> </tr> </table>	6	with		9	<p><b>Without Impact:</b> Not directly connected with any offsite wetlands. Hydrologically connected to Choctawhatchee Bay, which is tidally influenced by the Gulf of Mexico via the East Pass to the west of Destin (approximately 20 nautical miles to the west) and primarily receives freshwater inputs from the Choctawhatchee River (approximately 2.2 nautical miles to the east) and from direct runoff into the Bay. Adjacent uplands consist of maintained (via mowing) ROW shoulders and paved 2-lane undivided roadway, which have significant adverse impacts on fish and wildlife. Wildlife access and suitable habitats is severely limited by the roadway. Wetland assessment area and adjacent habitats are comprised of mostly nuisance or exotic vegetation. Discharges from the assessment area provide negligible benefits to downstream wetlands.</p> <p><b>With Mitigation:</b> Conditions will remain the same, but will add onto the higher quality wetland shoreline to the south by replicating similar conditions. Additionally, the wetland setback will be partially enhanced through the planting of native upland trees and shrubs.</p>
	6	with			
	9				
.500(6)(b) Water Environment (n/a for uplands)  w/o pres or current <table border="1"> <tr> <td>8</td> <td>with</td> </tr> <tr> <td></td> <td>9</td> </tr> </table>	8	with		9	<p><b>Without:</b> Water levels and frequency of duration are slightly lower than optimal conditions. Water level indicators were distinct. Community zonation was mostly inappropriate with a minimal amount of wetland vegetation. A majority of the plant community composition was indicative of moderate water quality degradation. Water depths, wave energy, currents, and light penetration are somewhat sufficient for the community being evaluated but are expected to cause some changes in species and densities.</p> <p><b>With Mitigation:</b> Water quality will be enhanced through the creation of an oyster bag breakwater waterward of the assessment area, to reduce shoreline erosion in this area. Presence and usage by animal species with specific hydrological requirements will be enhanced, but will still remain slightly less than expected.</p>
	8	with			
	9				
.500(6)(c) Community structure  1. Vegetation and/or 2. Benthic Community  w/o pres or current <table border="1"> <tr> <td>5</td> <td>with</td> </tr> <tr> <td></td> <td>9</td> </tr> </table>	5	with		9	<p><b>Without:</b> Currently consists of predominantly (90%) bare sand and open water, with minor amounts of salt grass, torpedo grass, and Bermuda grass. Currently, a concrete boat ramp associated finger boardwalks are located within a portion of this assessment area.</p> <p><b>With Mitigation:</b> The existing boat ramp, boardwalks, and associated park facilities will be removed and properly disposed of. The wetland areas from approximately 0.5' to 2.0' will be planted with native wetland shrub and herbaceous plantings consisting primarily of <i>Spartina alterniflora</i>, <i>Spartina patens</i>, <i>Juncus roemerianus</i>, <i>Schoenoplectus robustus</i>, and <i>Distichlis spicata</i>. Areas of existing nuisance vegetation will be cleared via a combination of selective application of herbicide (labeled for aquatic use) and minimal clearing and recompacting, as applicable. Nuisance exotic species will be held to less than 5 percent total coverage. Recruitment of desirable wetland vegetation is anticipated to assist in increasing the diversity of the site. Will provide at least 80 percent herbaceous ground cover by desirable species. Topographic variation in the design will allow for a diverse array of habitat types and increase utilization by wildlife species. Additionally, a series of oyster bags will be placed in the water column approximately 30-feet waterward of the wetland line in the vicinity of the enhancement area to an elevation of 0.7 feet (i.e. just above MHW) to create a breakwater for the enhanced wetland areas and reduce concerns with future shoreline erosion. Wetland setback and transitional areas will be planted with a mixture of Sabal palmetto, <i>Spartina bakeri</i>, and <i>Ilex vomitoria</i>.</p>
	5	with			
	9				

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
0.63	0.90

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.27

If mitigation
Time lag (t-factor) = 1.07
Risk factor = 1.5

For mitigation assessment areas
RFG = delta/(t-factor x risk) = 0.17

FG = RFG x Acreage **0.15**

ctive date 02-04-2004]





# APPENDIX B



U.S. Army Corps  
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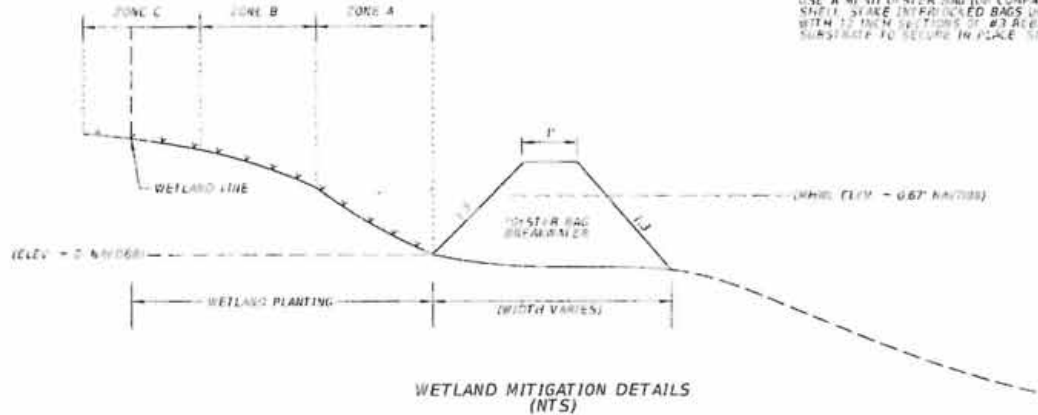
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Mitigation Procedures/Plan/Asso. Mitigated Actions

Attachment # 7



\*PLACE GEOTEXTILE FABRIC UNDER FOOTPRINT OF WETLAND BRACKLEWATER SEGMENTS (USE A WIDE CENTER RING FOR COMPARTMENT) FILL WITH 30 LBS OF WASHED #100 F80 SHELVE SHAKE INTERLOCKED BAGS UNTIL REACHING THE DESIRED ELEVATION. STAKE WITH 12 INCH SECTIONS OF #3 REBAR STAKES FOR COMPARTMENTS INTO THE BAG AND/OR SUBSTRATE TO SECURE IN PLACE. SLOPE SLOPES 1:1.



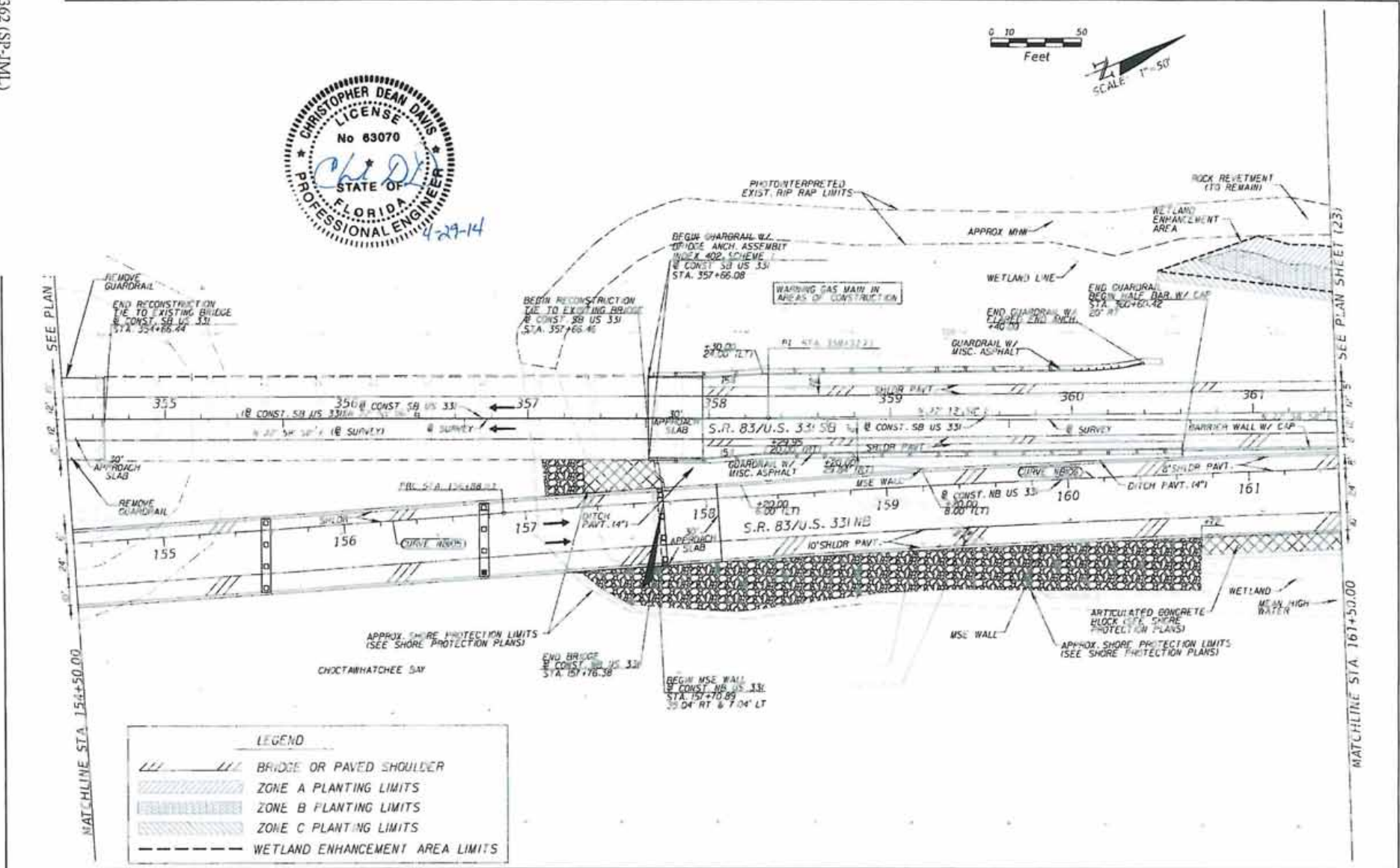
NOTE: In areas to be planted, all rocks and rubble will be removed to one foot below the planting surface.

CHOCTAWHATCHEE BAY BRIDGE - ONSITE MITIGATION AREA  
PLANTING PLAN

WETLAND TYPE	ZONE	ACREAGE	SQUARE FEET	ELEVATION	SCIENTIFIC NAME	COMMON NAME	PERCENT COVER	SIZE	SPACING (C. TO C.)	PLANT QUANTITY
LOW MARSH	A	0.27	11,825	0 to 1	HERBACEOUS					
					Spartina alterniflora	SMOOTH CORDGRASS	100%	2' CELL	3.0	1,325
HIGH MARSH	B	0.42	20,762	1 to 2	HERBACEOUS					
					Juncus roemerianus	BLACK NEEDLE RUSH	50%	2' CELL	4.5	1,157
					Spartina patens	SALTPANISH CORDGRASS	50%	2' CELL	3.0	1,154
TRANSITIONAL AREA	C	0.33 (0.14 WITHIN WEIR)	11,241	>2	HERBACEOUS					
					Cardiaria aestivaxis	BLANKET FLOWER	15%	2' CELL	3.0	278
					Iva frutescens	MARSH SEDGE	2%	2' CELL	5.0	142
					Muhlenbergia capillaris	MINKY GRASS	35%	4'	3.0	390
					Spartina patens	SAND CORDGRASS	20%	1' CELL	5.0	142

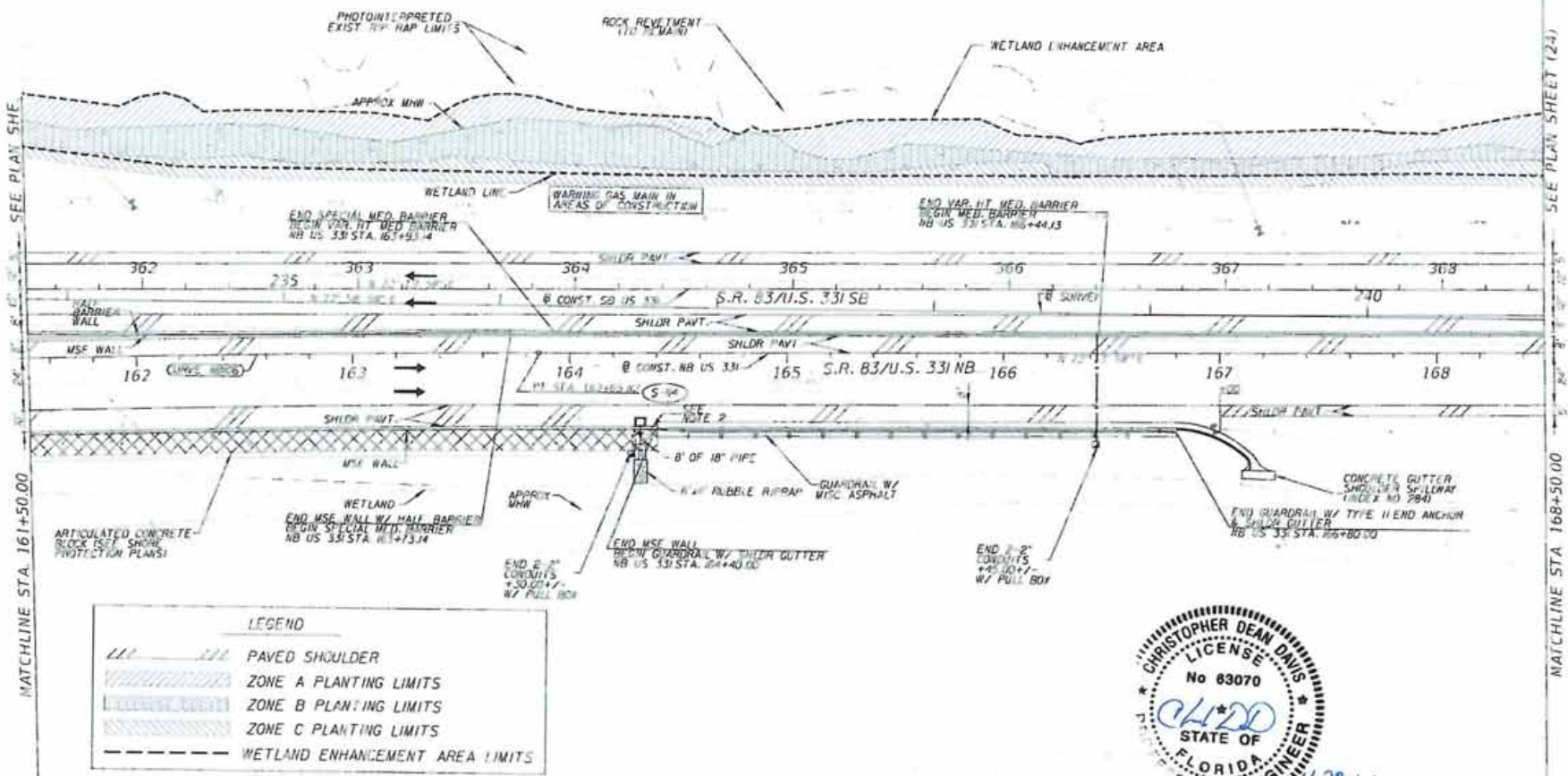
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REVISIONS				Parsons Brinckerhoff, Inc. 20 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-6400 Cert. of Auth. No. 0462 EOR: Christopher D. Davis, P.E. No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTION DETAILS (3)	SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					83	WALTON	220654-2-52-01		



LEGEND	
	BRIDGE OR PAVED SHOULDER
	ZONE A PLANTING LIMITS
	ZONE B PLANTING LIMITS
	ZONE C PLANTING LIMITS
	WETLAND ENHANCEMENT AREA LIMITS

REVISIONS				Pyramid Engineering, Inc. 1218 Trade Street, Suite 1050 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 01462 EOR Christopher D. Davis, P.E., No. 53070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO 47
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO	COUNTY	FINANCIAL PROJECT ID	
				83	WALTON	220664-2-52-01	<b>PLAN (22)</b>	



LEGEND	
	PAVED SHOULDER
	ZONE A PLANTING LIMITS
	ZONE B PLANTING LIMITS
	ZONE C PLANTING LIMITS
	WETLAND ENHANCEMENT AREA LIMITS

NOTES: 1. FOR SPECIAL MEDIAN BARRIER DESIG. SEE RETAINING WALL PLANS.  
 2. FOR MSE WALL TRAFFIC RAILING DETAILS ADJACENT TO CHANNEL STRUCTURES, REFER TO INDEX 6201.



REVISIONS		DESCRIPTION	Parsons Brinckerhoff, Inc. 101 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E., No. 63070	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			83	WALTON	220664-2-52-01	48	

PLAN (23)





US Army Corps of Engineers

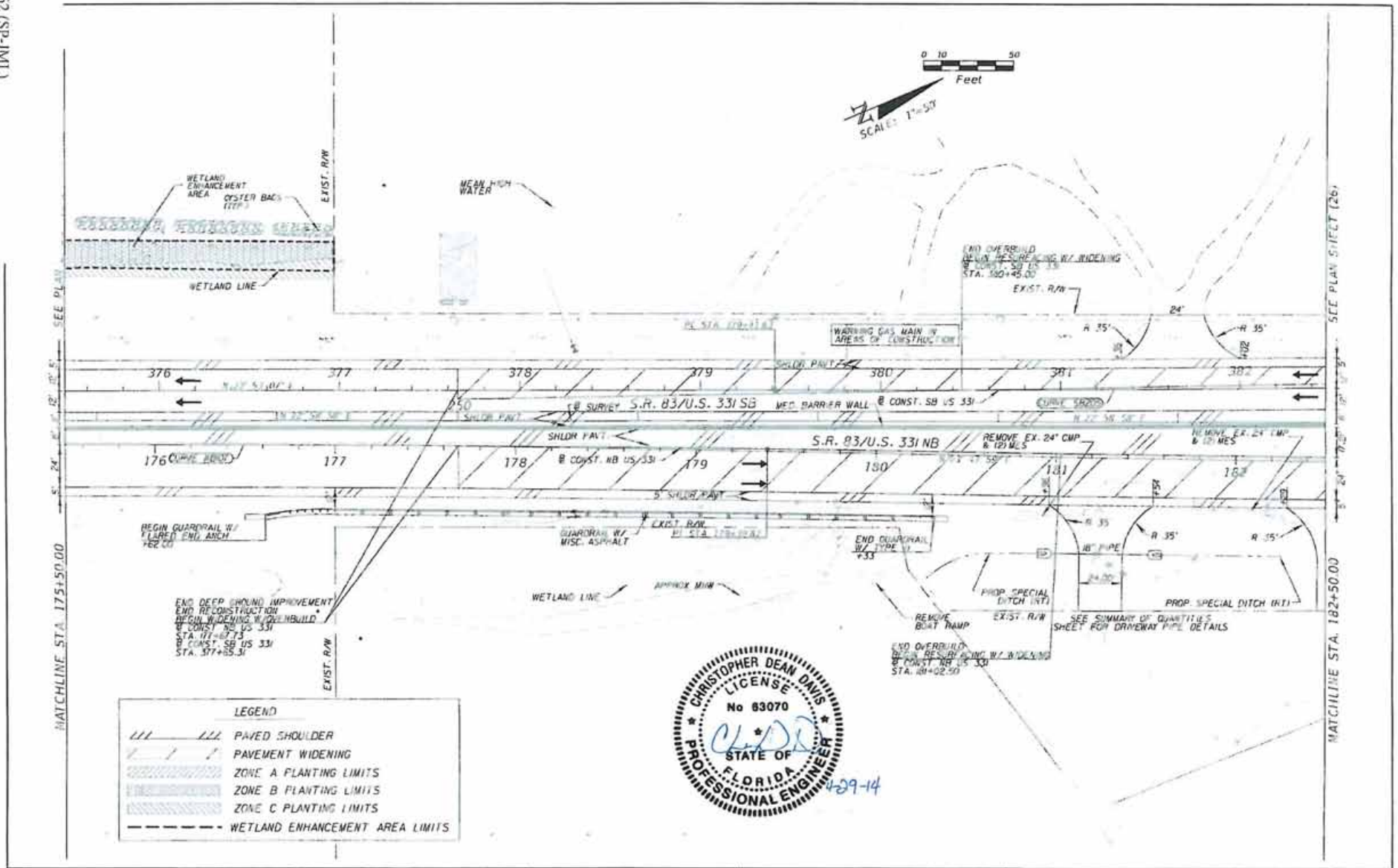
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FDOT - US-331 Bridge

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**LEGEND**

///	PAVED SHOULDER
////	PAVEMENT WIDENING
[Hatched Area]	ZONE A PLANTING LIMITS
[Hatched Area]	ZONE B PLANTING LIMITS
[Hatched Area]	ZONE C PLANTING LIMITS
- - -	WETLAND ENHANCEMENT AREA LIMITS



REVISIONS				DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO
DATE	DESCRIPTION	BY	APP'D		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				Perkins Brinkerhoff, Inc. 421 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 542-1469 Cert. of Auth. No. 01462 EOR: Christopher D. Davis, P.E. No. 61007	83	WALTON	210664-2-52-01	50

PLAN (25)

MATCHLINE STA. 175+50.00 SEE PLAN SHEET (26)

MATCHLINE STA. 175+50.00

MATCHLINE STA. 182+50.00

# **Attachment 6 – In-water Structures Proposed for Removal Drawing**



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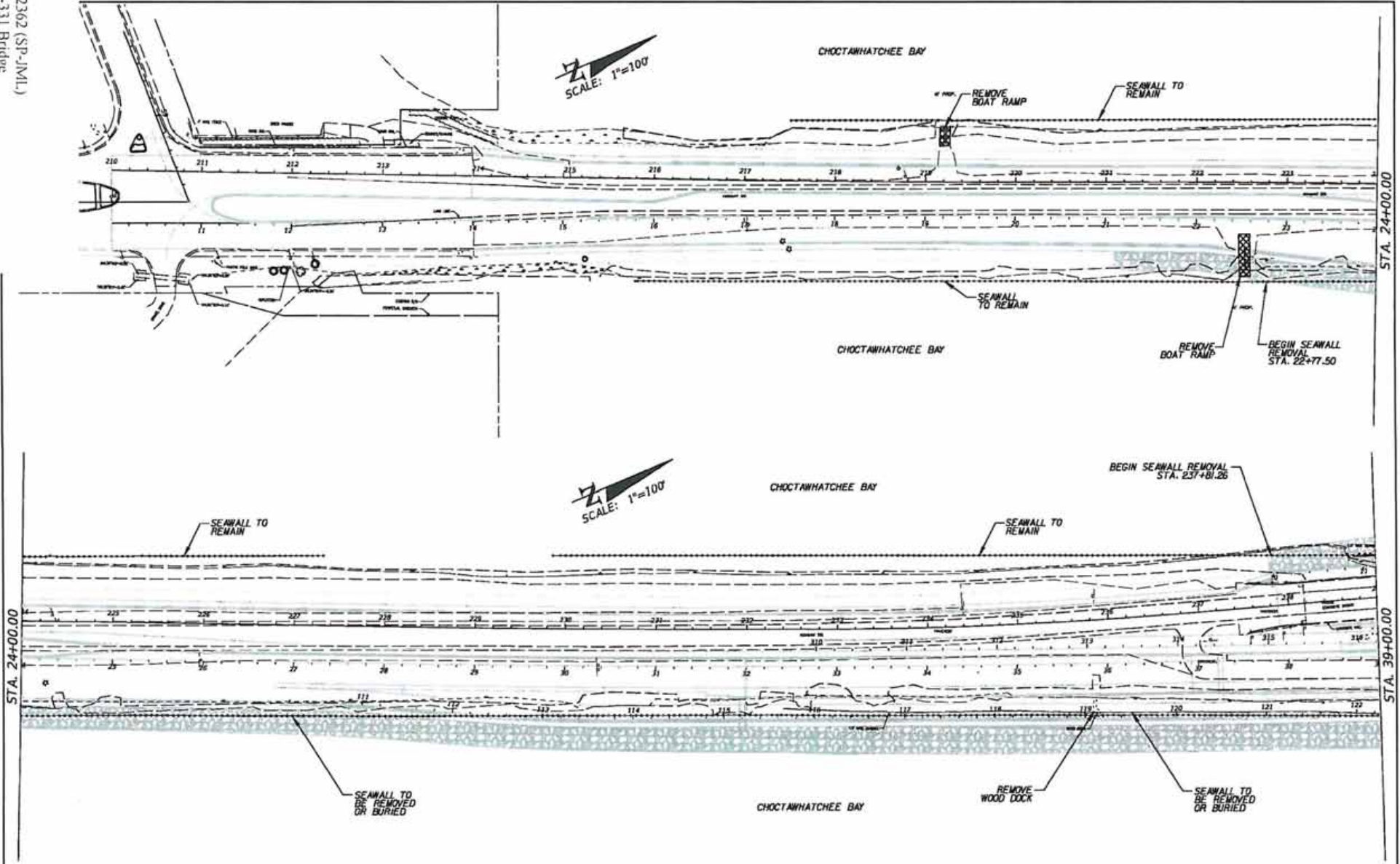
SAJ-2013-02362 (SP-JML)

FDOT – US-331 Bridge

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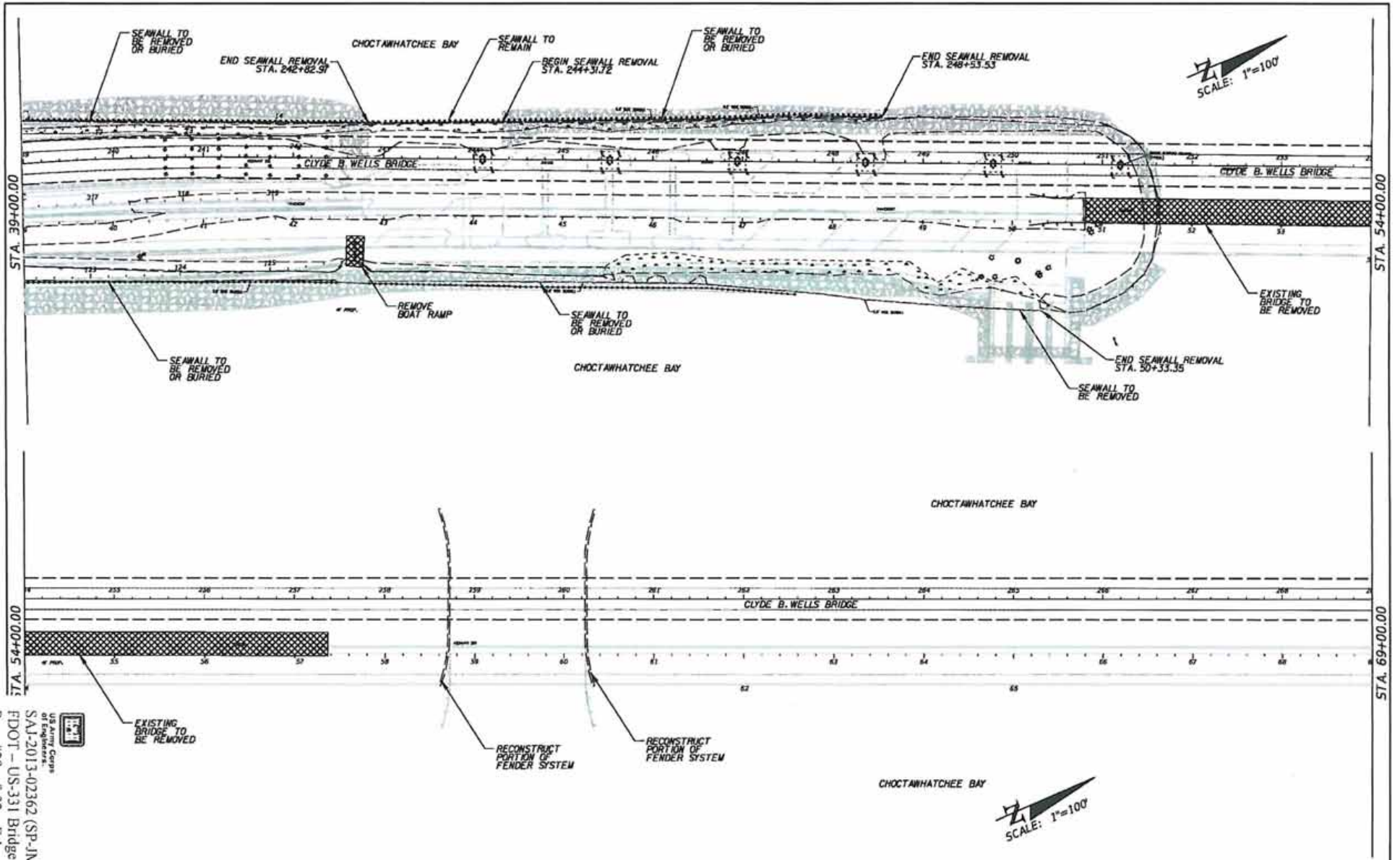
Mitigation Procedures/Plan/Asso. Mitigated Actions

Attachment #7



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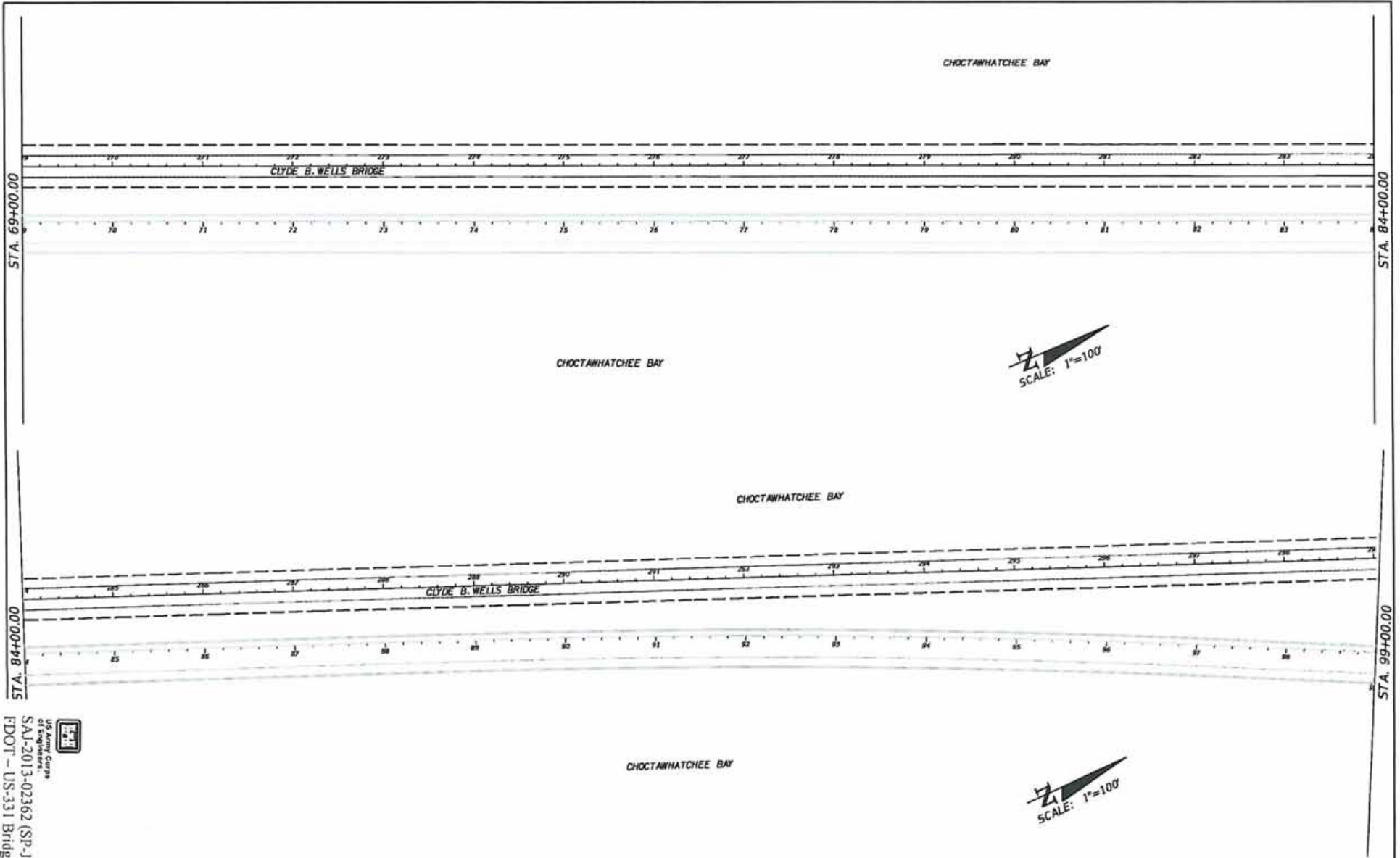




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DESCRIPTION	DATE			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			83	WALTON	220664-2-52-01			

Attachment # 7  
 Mitigation Procedures/Plan/Asso. Mitigated Actions  
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 State of Florida  
 Department of Transportation





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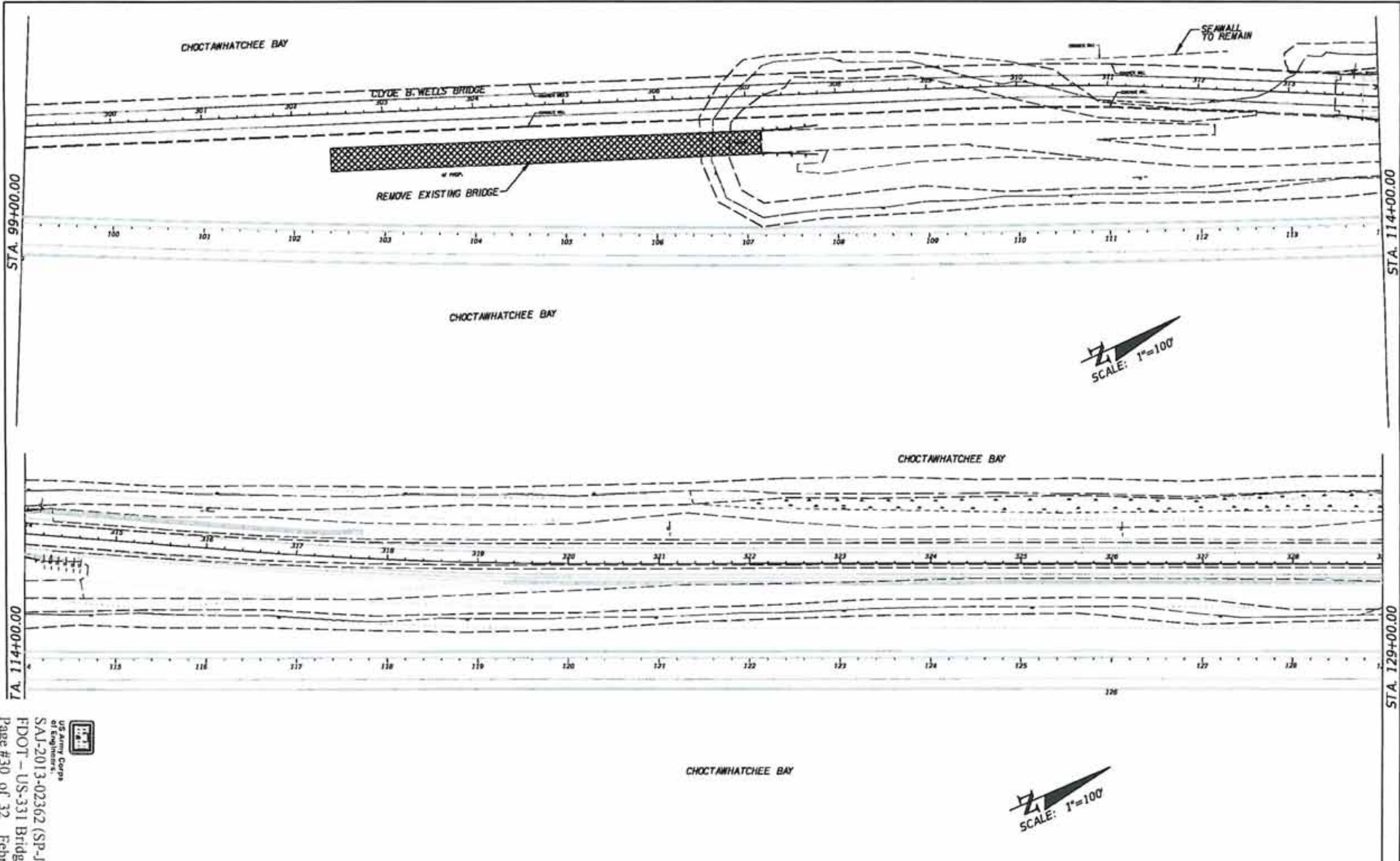
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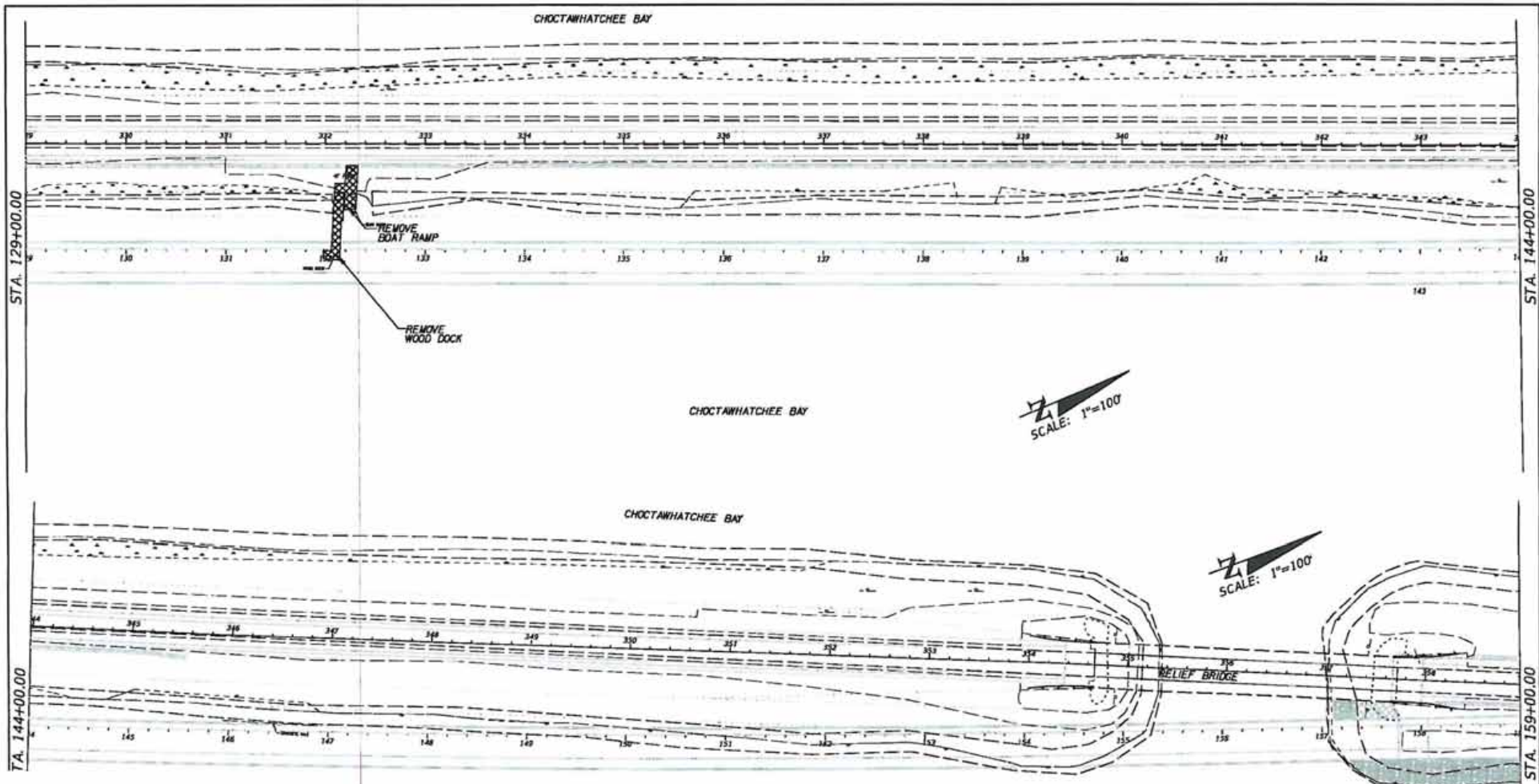
Attachment # 7  
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 SAI-2013-02362 (SP-JML)  
 State of Florida  
 Department of Transportation



Attachment # 7  
 Mitigation Procedures/Plan/Asso. Mitigated Action:  
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 FDOT - US-331 Bridge  
 SAI-2013-02362 (SP-JML)  
 US Army Corps of Engineers

REVISIONS		DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXISTING WATER FEATURE STRUCTURES	SHEET NO.  4
DESCRIPTION	DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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 SAI-2013-02362 (SP-JML)  
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 Attachment # 7

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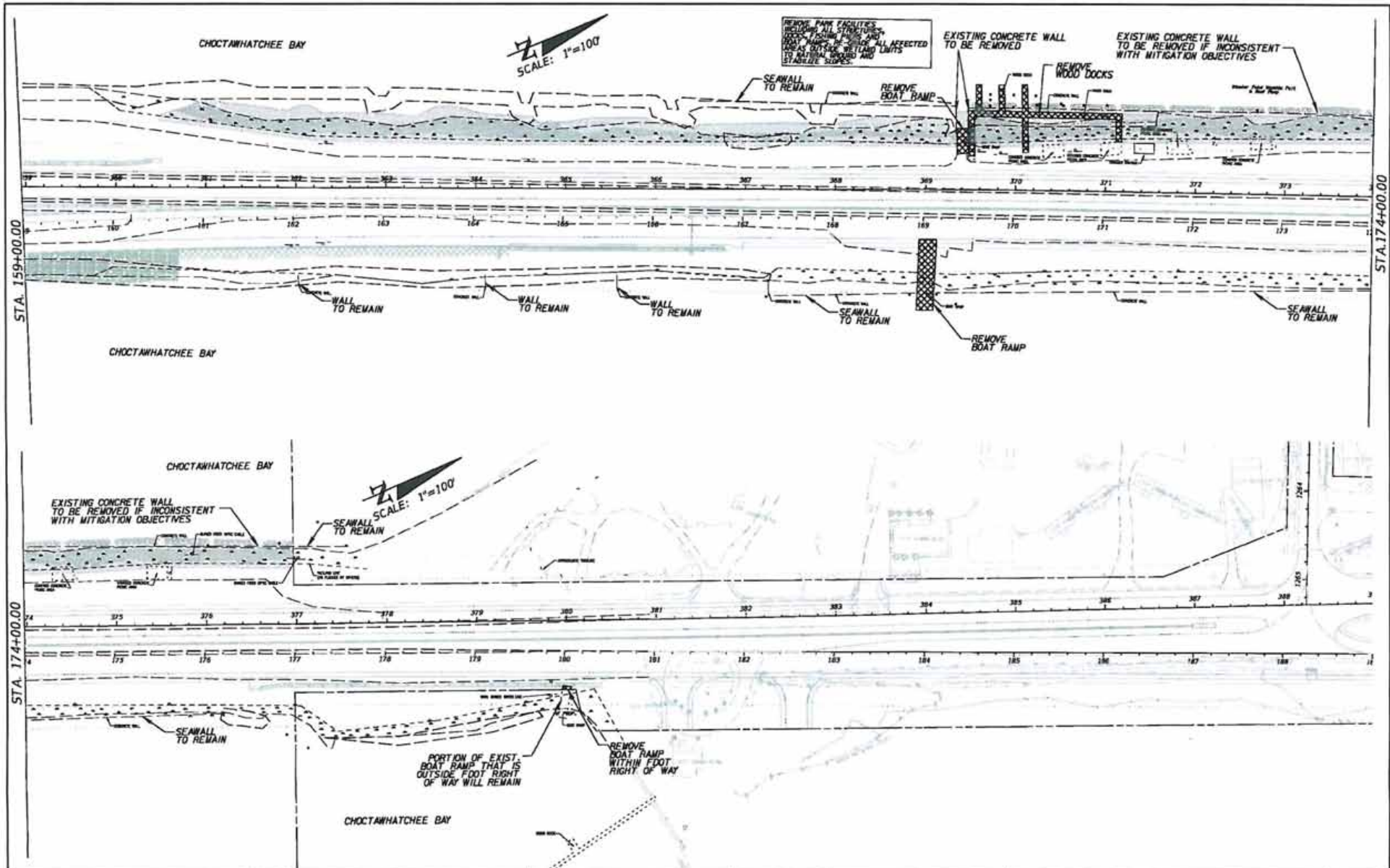
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 Mitigation Procedures/Plan/Asso. Mitigated Actions  
 Attachment # 7

DESCRIPTION	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			EXISTING WATER FEATURE STRUCTURES	SHEET NO. 6
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Parsons Brinckerhoff, Inc. 121 W. Trade Street, Suite 1950 Charlotte, NC 28202 (704) 342-8469 Cert. of Auth. No. 04662 EOR: Christopher D. Davis, P.E. No. 63070	83	WALTON	220664-2-52-01		

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