

**CONTRACT PLANS COMPONENTS**

ROADWAY PLANS  
STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE  
KEY SHEET OF EACH COMPONENT

**INDEX OF ROADWAY PLANS**

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6-7	TYPICAL SECTIONS
8	TYPICAL SECTIONS DETAILS
9	SUMMARY OF DRAINAGE STRUCTURES
10	OPTIONAL MATERIALS TABULATION
11	PROJECT LAYOUT
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**DEVELOPMENTAL STANDARD PLANS (DSP):**

D450001 HIGH TENSION CABLE BARRIER

**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY 2024-2025 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: IR \_\_\_\_-\_\_\_\_-\_\_\_\_

Standard Plans for Bridge Construction are included in the Structures Plans Component

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, FY 2024-2025 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

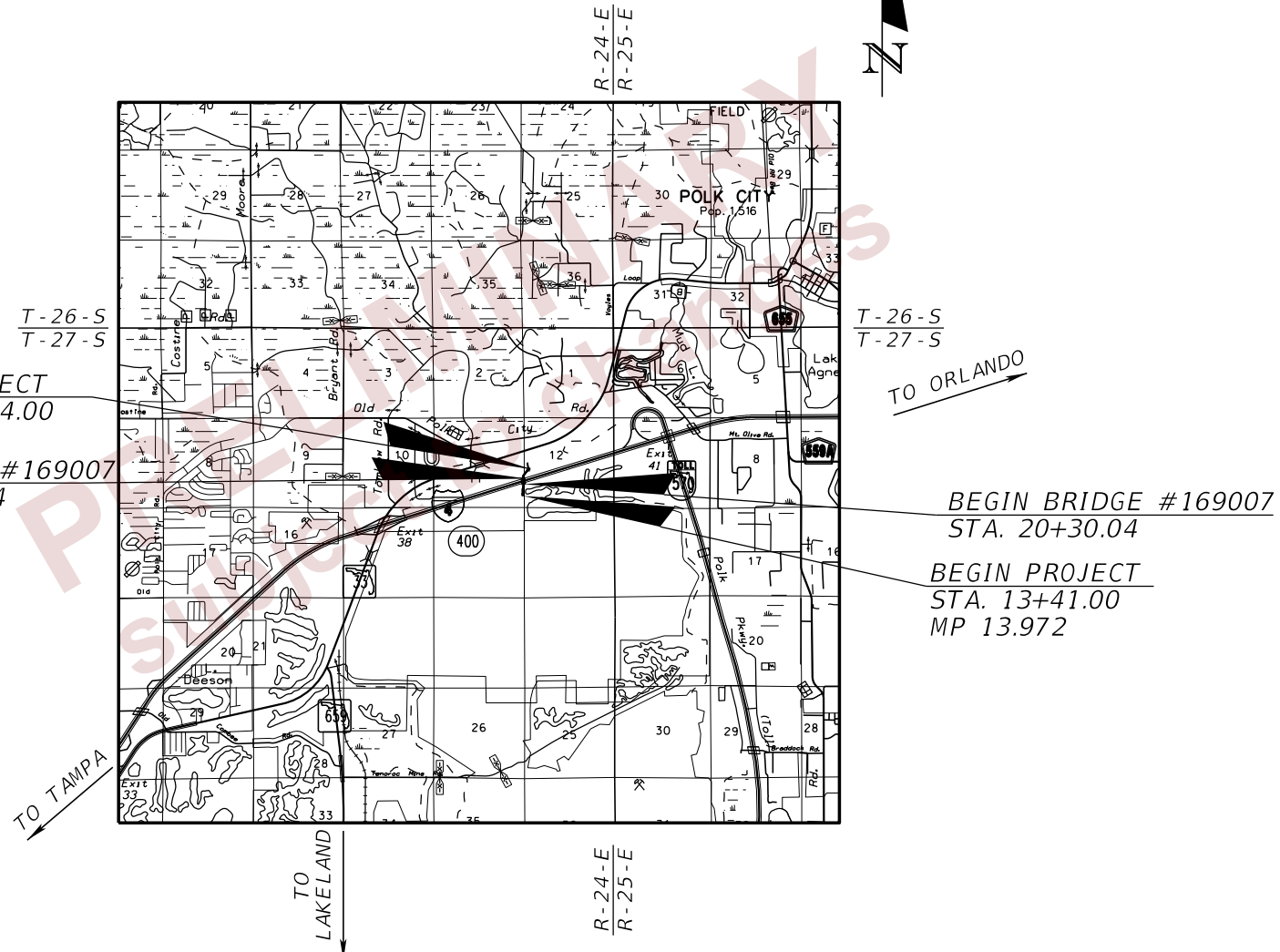
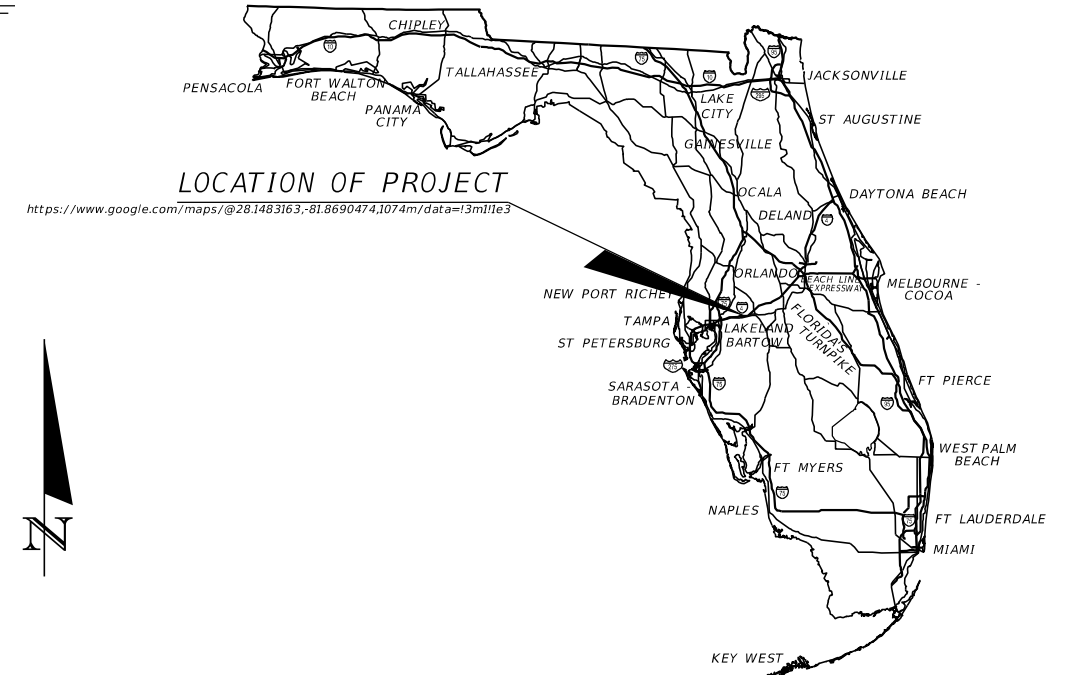
**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 201214-8-52-01  
(FEDERAL FUNDS)

POLK COUNTY (16320)  
STATE ROAD NO. 400 (I-4)  
WILDLIFE OVERPASS

THIS PROJECT TO BE LET TO CONTRACT WITH  
FPID: 430185-3-52-01, 430185-3-56-01, 430185-3-56-03, 430185-3-56-04, 430185-3-56-05,  
430185-4-52-01, 430185-4-56-01, 430185-4-56-02, 430185-4-56-03, 430185-4-56-04,  
430185-7-52-01



PHASE IV SUBMITTAL  
FEBRUARY 29, 2024

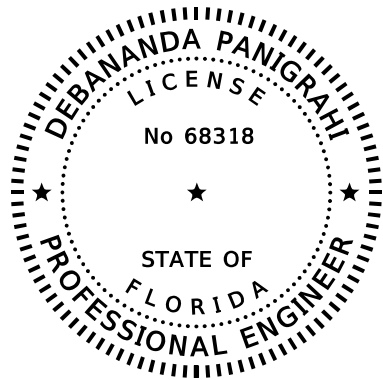
ROADWAY PLANS  
ENGINEER OF RECORD:

DAVE PANIGRAHI, P.E.  
LICENSE NUMBER 68318  
H.W. Lochner  
4300 W. Cypress Street, SUITE 500  
Tampa, Florida 33607  
CONTRACT NO.: C9C38  
VENDER NO.: VF362338811001

FDOT PROJECT MANAGER:

DOUG BURKHART, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	25	1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

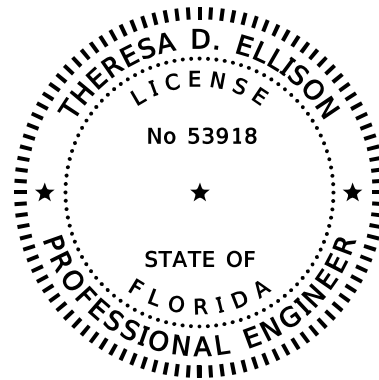
ON THE DATE ADJACENT TO THE SEAL

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

LOCHNER  
4350 W. CYPRESS STREET, SUITE 800  
TAMPA, FL 33607  
DEBANANDA PANIGRAHI, P.E. NO. 68318

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

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
6-7	TYPICAL SECTIONS
8	TYPICAL SECTIONS DETAILS
11	PROJECT LAYOUT
12-13	PROJECT CONTROLS
14	GENERAL NOTES
15-18	ROADWAY PLANS
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35-71	CROSS SECTIONS
84-87	UTILITY ADJUSTMENTS



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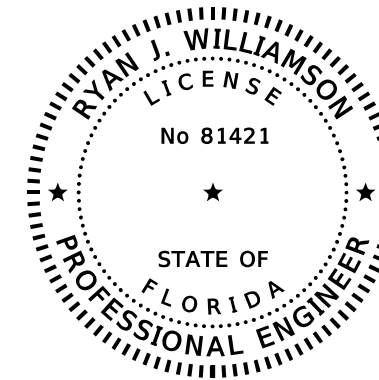
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LOCHNER  
4350 W. CYPRESS STREET, SUITE 800  
TAMPA, FL 33607  
THERESA D. ELLISON, P.E. NO. 53918

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
3-5	DRAINAGE MAPS
9	SUMMARY OF DRAINAGE STRUCTURES
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24-29	POND DETAILS
72-74	STORMWATER POLLUTION PREVENTION PLANS
75-76	EROSION CONTROL PLANS



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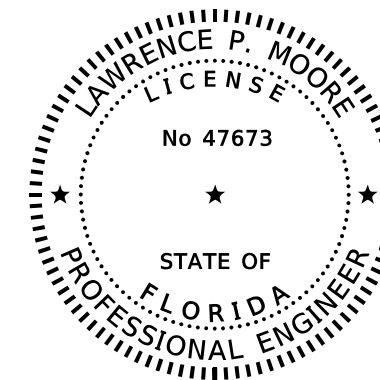
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BURGESS & NIPLE, INC.  
1800 PEMBROOK DRIVE, SUITE 265  
ORLANDO, FL 32810  
CERTIFICATE OF AUTHORIZATION NO. 9853  
RYAN J WILLIAMSON, P.E. NO. 81421

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
77-83	TEMPORARY TRAFFIC CONTROL PLANS

PRELIMINARY  
subject to changes



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ON THE DATE ADJACENT TO THE SEAL

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TIERRA, INC.  
7351 TEMPLE TERRACE HIGHWAY  
TAMPA, FLORIDA 33637  
CERTIFICATE OF AUTHORIZATION; 6486  
LAWRENCE P. MOORE, P.E. NO. 47673

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

ROADWAY PLANS SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
30-32	POND SOIL SURVEY
34	ROADWAY SOIL SURVEY

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	POLK	201214-8-52-01	
<b>SIGNATURE SHEET</b>								2

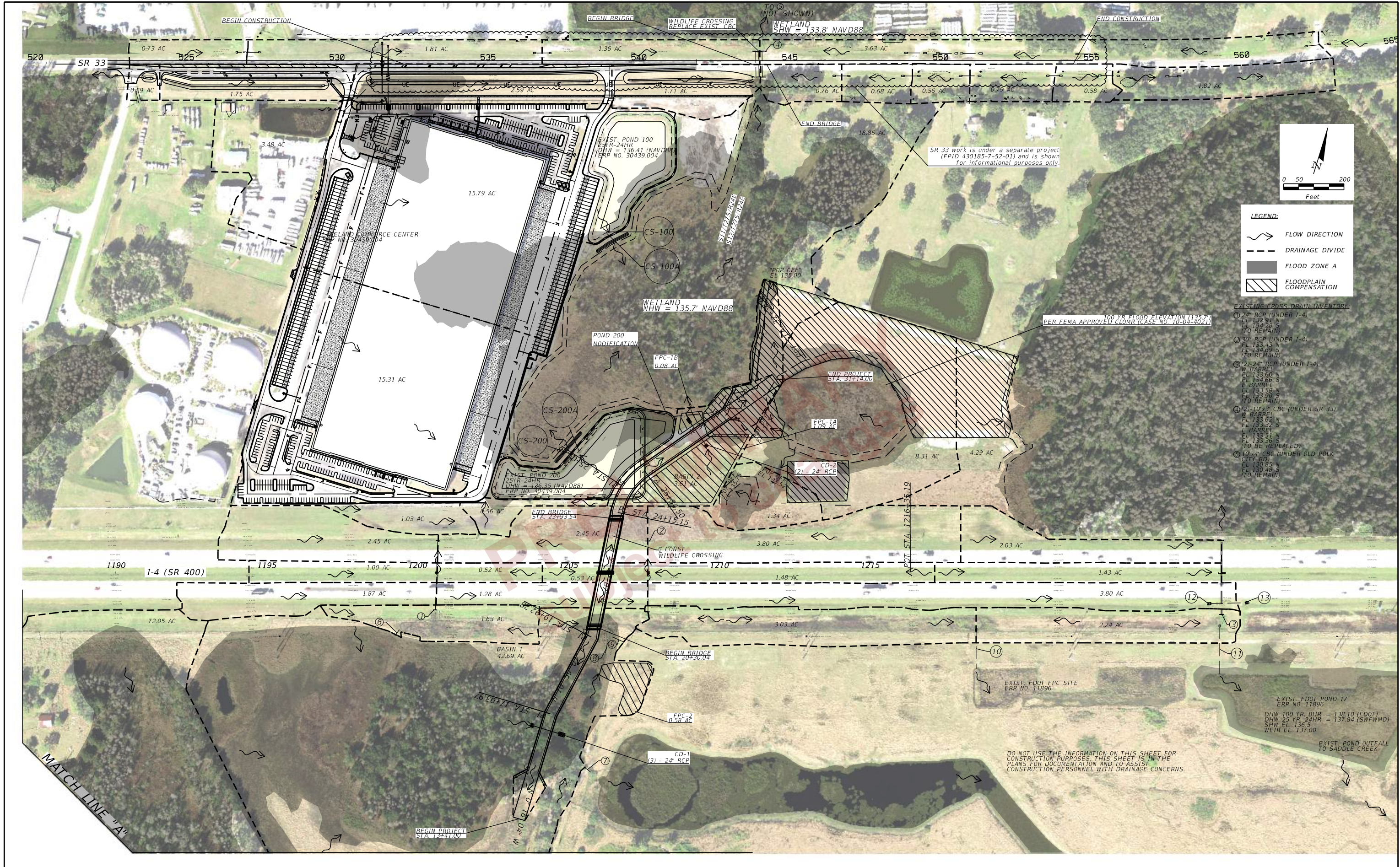
NOTES TO REVIEWER:

1. MAJOR CHANGES SINCE PHASE III SUBMITTAL HAS BEEN TO ADD DETAILS FOR HIGH TENSION CABLE BARRIER.
2. PLANS HAVE BEEN DEVELOPED UTILIZING FDM SERIES 300. SUPPLEMENT TO ORIGINAL SCOPE DOES NOT INCLUDE UPDATING TO LATEST FDM 900 SERIES.

PRELIMINARY  
 subject to changes

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>NOTES TO REVIEWER</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	2A		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400	POLK	201214-8-52-01





REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 WILDLIFE CROSSING DRAINAGE MAPS (01)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01	3	

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REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	4

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EXISTING CROSS DRAINS

- ① 24" RCP (UNDER I-4)  
FL 132.91 N  
FL 134.28 S  
(TO REMAIN)
- ② 30" RCP (UNDER I-4)  
FL 133.43 N  
FL 134.69 S  
(TO REMAIN)
- ③ (2) 24" RCP (UNDER I-4)  
W BARREL  
FL 133.60 N  
FL 134.66 S  
E BARREL  
FL 133.59 N  
FL 133.90 S  
(TO REMAIN)
- ④ (2) 10'x3' CBC (UNDER SR 33)  
W BARREL  
FL 133.62 N  
FL 133.32 S  
E BARREL  
FL 133.51 N  
FL 133.36 S  
(TO BE REPLACED)
- ⑤ 10'x4' CBC (UNDER OLD POLK CITY RD)  
FL 130.85 N  
FL 130.48 S  
(TO REMAIN, NOT SHOWN)

EXISTING DRAINAGE STRUCTURES

- ⑥ 15" DIP  
FL 134.43 N  
FL 134.37 S  
(TO REMAIN)
- ⑦ 18" PVC  
FL 133.13 E  
FL 132.99 W  
(TO REMAIN)
- ⑧ 24" RCP  
FL 134.19 N  
FL 134.03 S  
(TO REMAIN)
- ⑨ 18" DIP  
FL 135.52 E  
FL 136.31 W  
(TO REMAIN)
- ⑩ 24" RCP (SUBMERGED)  
FL 133.18 N  
FL 133.33 S  
(TO REMAIN)
- ⑪ 26"x14" RCP (SUBMERGED)  
FL 134.73 N  
FL 134.38 S  
(TO REMAIN)
- ⑫ GRATE INLET  
GRATE EL 136.88  
30" RCP FL 129.90 E
- ⑬ GRATE INLET  
GRATE EL 137.44  
30" RCP FL 131.94 W

- CS-100 POND CONTROL STRUCTURE  
MODIFIED TYPE D INLET  
GRATE EL 136.67  
WEIR EL 136.53  
CONTROL EL 135.75  
(ERP NO. 30439)
- CS-100A POND CONTROL STRUCTURE  
MODIFIED TYPE D INLET  
GRATE EL 136.67  
WEIR EL 136.53  
CONTROL EL 135.75  
(ERP NO. 30439)
- CS-200 POND CONTROL STRUCTURE  
MODIFIED TYPE D INLET  
GRATE EL 136.63  
WEIR EL 136.36  
CONTROL EL 135.53  
(ERP NO. 30439)
- CS-200A POND CONTROL STRUCTURE  
MODIFIED TYPE D INLET  
GRATE EL 136.63  
WEIR EL 136.36  
CONTROL EL 135.53  
(ERP NO. 30439)

SUMMARY OF FLOOD DATA  
FINANCIAL PROJECT ID 201214-8-52-01

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		2% PROB	50 YR FREQ	1% PROB	100 YR FREQ	DISCHARGE	STAGE	PROB %	FREQ YR	DISCHARGE	STAGE	PROB %	FREQ YR
		DISCHARGE	STAGE	DISCHARGE	STAGE								
CD-1	16+50.00	49.71	135.51	53.35	135.59	N/A	N/A	N/A	N/A	57.50	135.65	N/A	N/A
CD-2	28+00.00	26.01	135.19	28.17	135.31	N/A	N/A	N/A	N/A	32.00	135.54	N/A	N/A

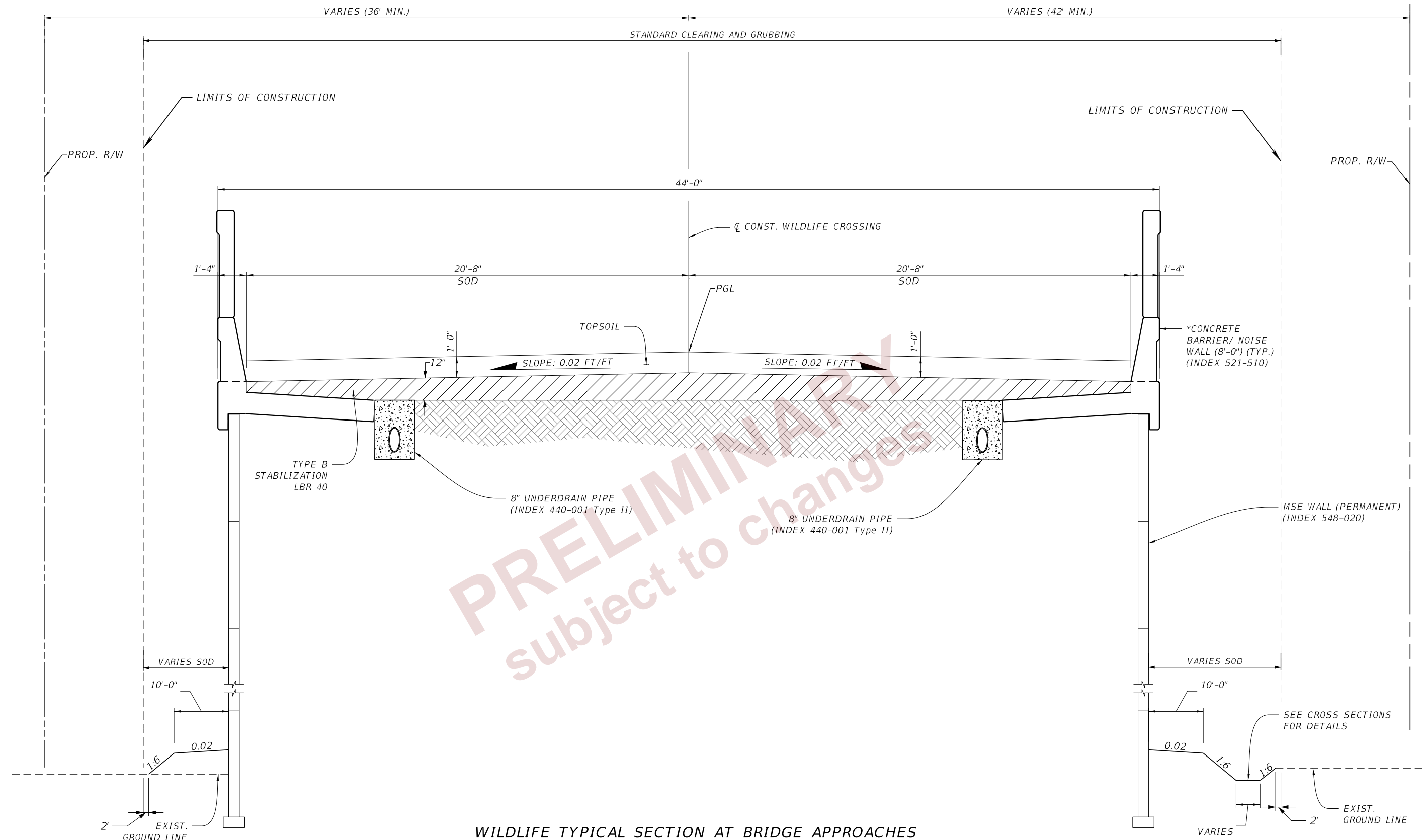
NOTE: THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGEMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CAN NOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NAVD 88.

DEFINITIONS:

- DESIGN FLOOD: UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.
- BASE FLOOD: HAS A 1% CHANCE OF BEING EXCEEDED IN ANY YEAR (100 YR. FREQUENCY).
- OVERTOPPING FLOOD: CAUSES FLOW OVER THE HIGHWAY, OVER A WATERSHED DIVIDE OR THRU EMERGENCY RELIEF STRUCTURES.
- GREATEST FLOOD: THE MOST SEVERE THAT CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	POLK	201214-8-52-01			
<b>DRAINAGE MAPS (03)</b>									<b>5</b>





**WILDLIFE TYPICAL SECTION AT BRIDGE APPROACHES**

STA 13+41.00 TO STA 20+30.04 CL CONST. WILDLIFE CROSSING

STA 23+93.54 TO STA 31+14.00 CL CONST. WILDLIFE CROSSING

\*NOISE WALL LIMITS STA 18+30.00 TO STA 20+30.04

STA 23+93.54 TO STA 26+00.00

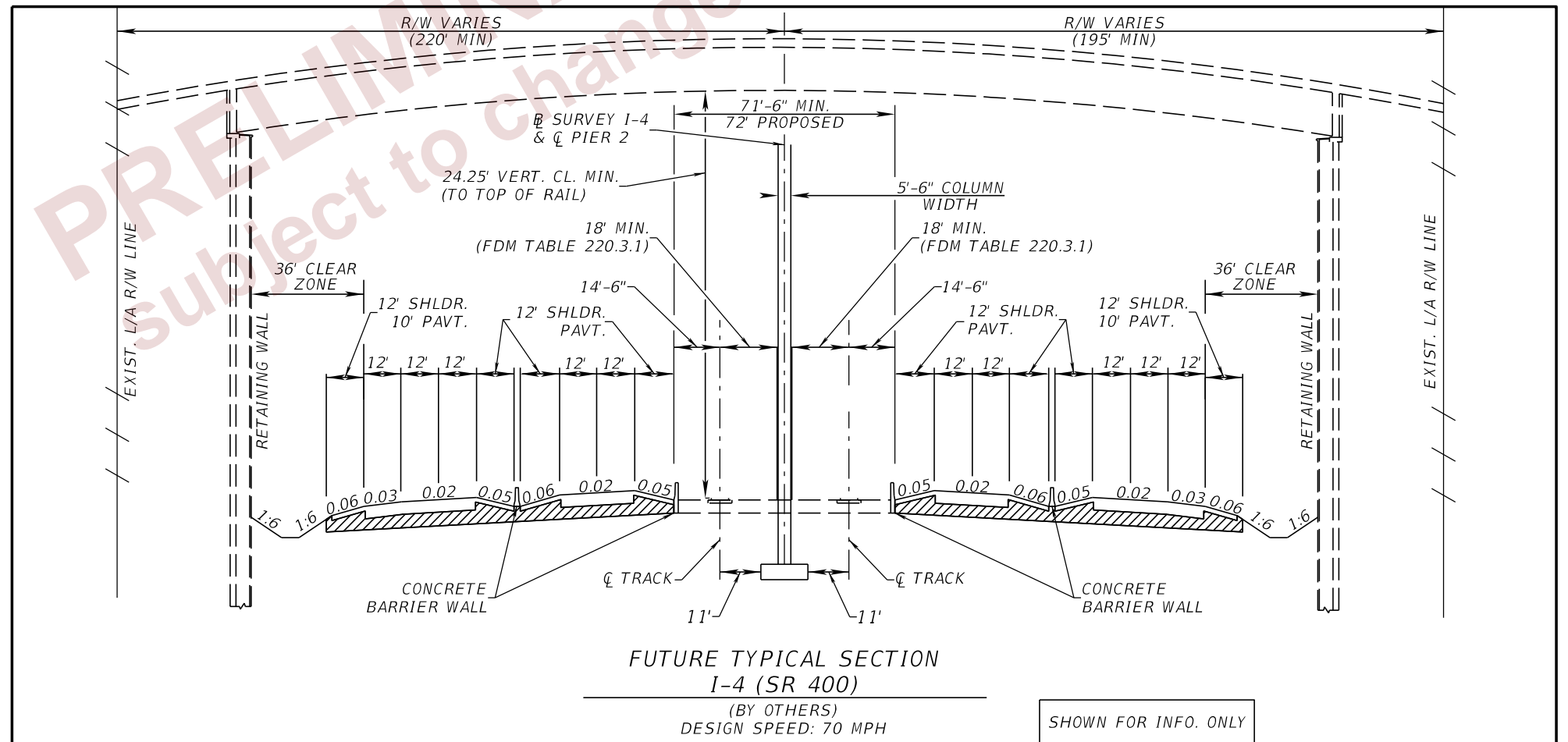
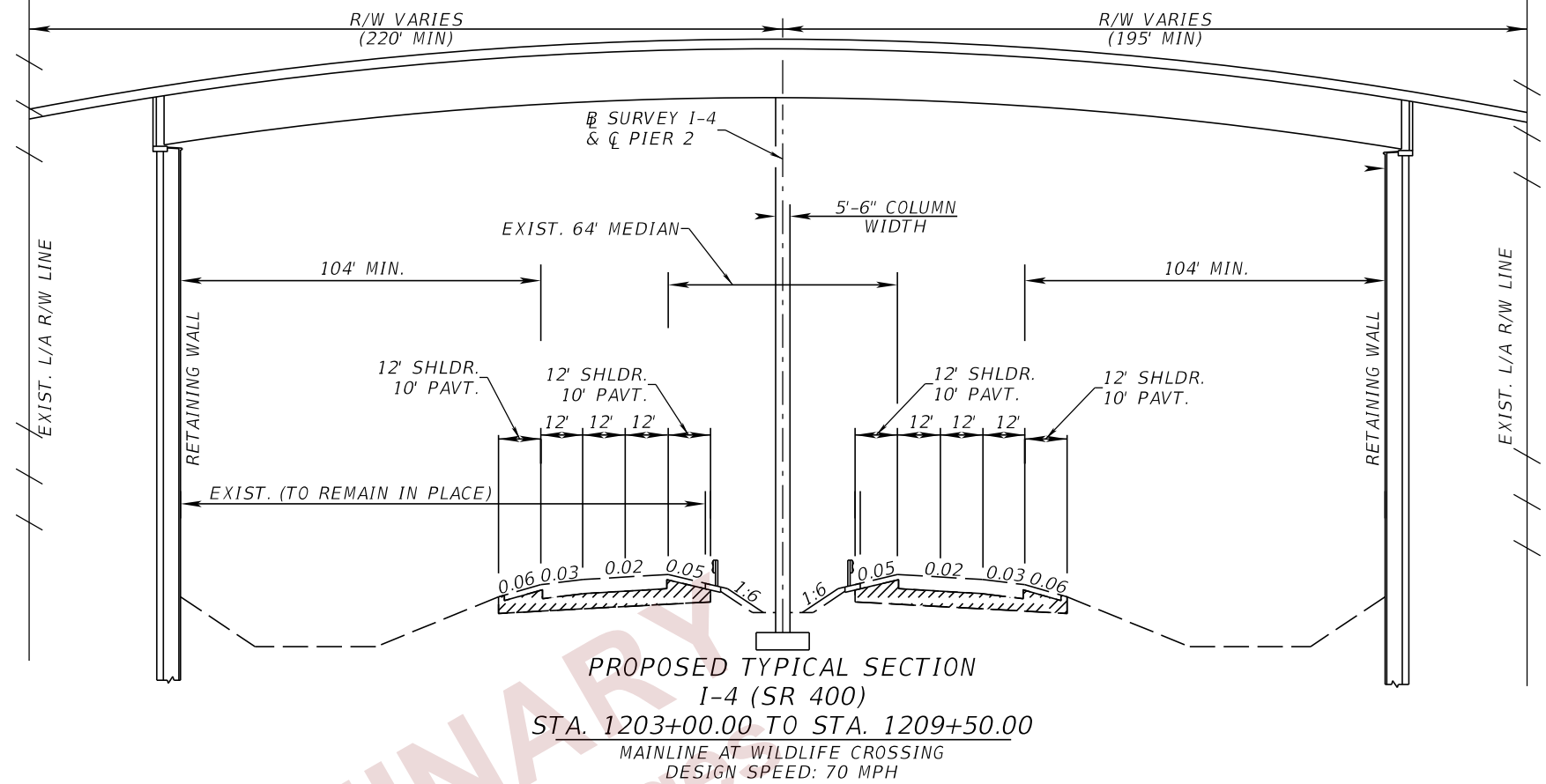
**TRAFFIC DATA**

N/A - WILDLIFE CROSSING

PRELIMINARY  
 subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							SR 400	POLK	201214-8-52-01	<b>TYPICAL SECTIONS (1)</b>  <b>6</b>





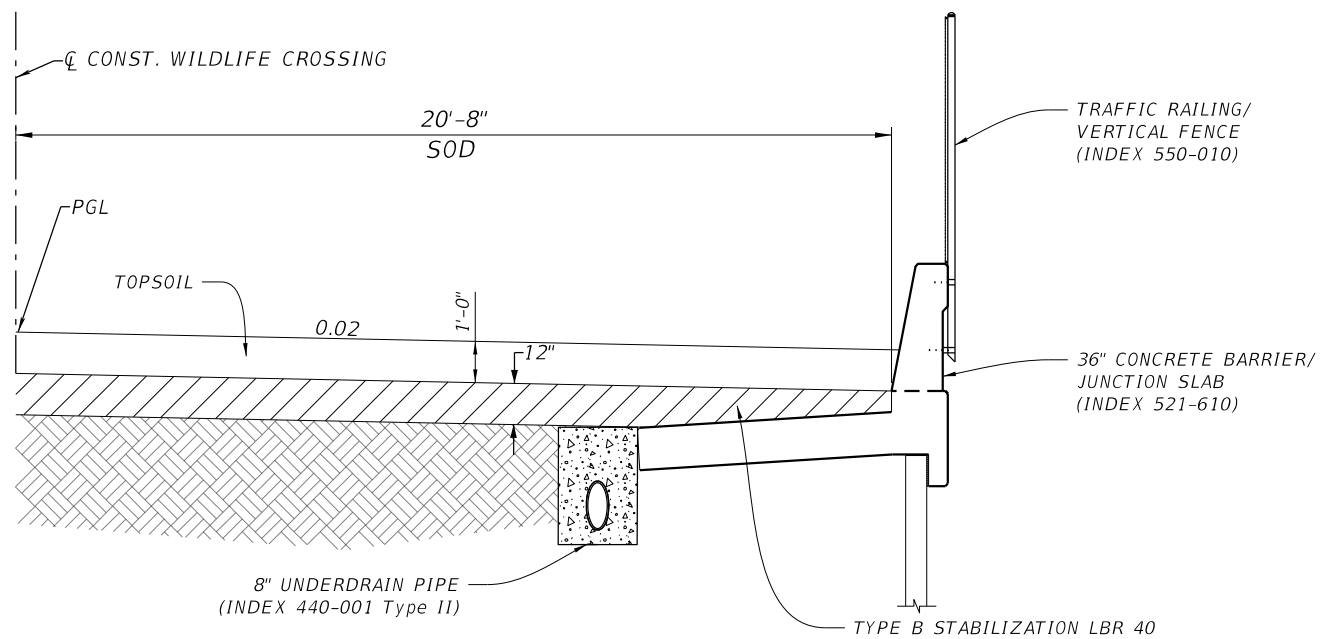
**TRAFFIC DATA**

CURRENT YEAR = 2019 AADT = 79,600  
 ESTIMATED OPENING YEAR = 2024 AADT = 85,400  
 ESTIMATED DESIGN YEAR = 2042 AADT = 114,500  
 K = 9.0% D = 51.90% T = 19.60% (24 HOUR)  
 DESIGN HOUR T = 9.8%  
 DESIGN SPEED = 70 MPH

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TYPICAL SECTIONS (2)</b>	SHEET NO.  7
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK		

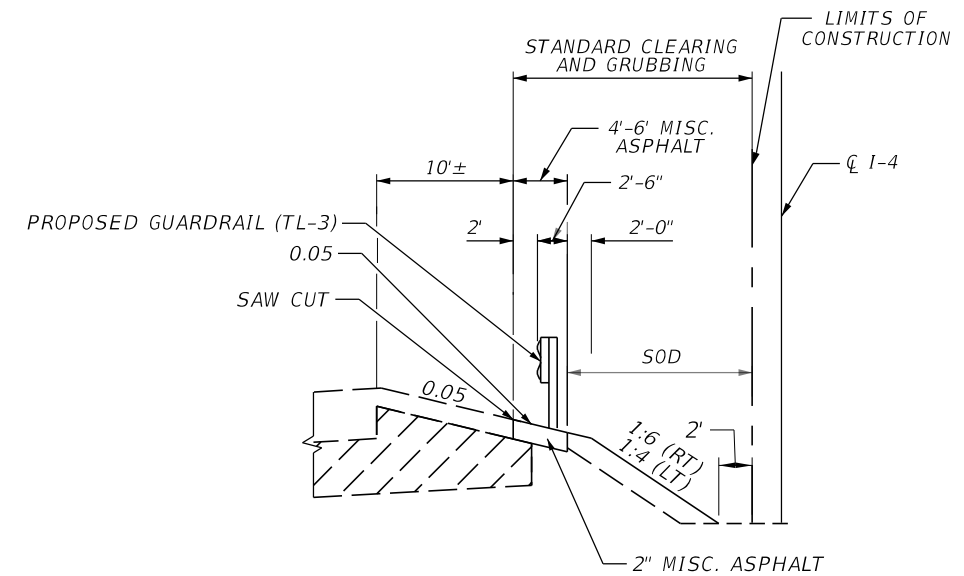
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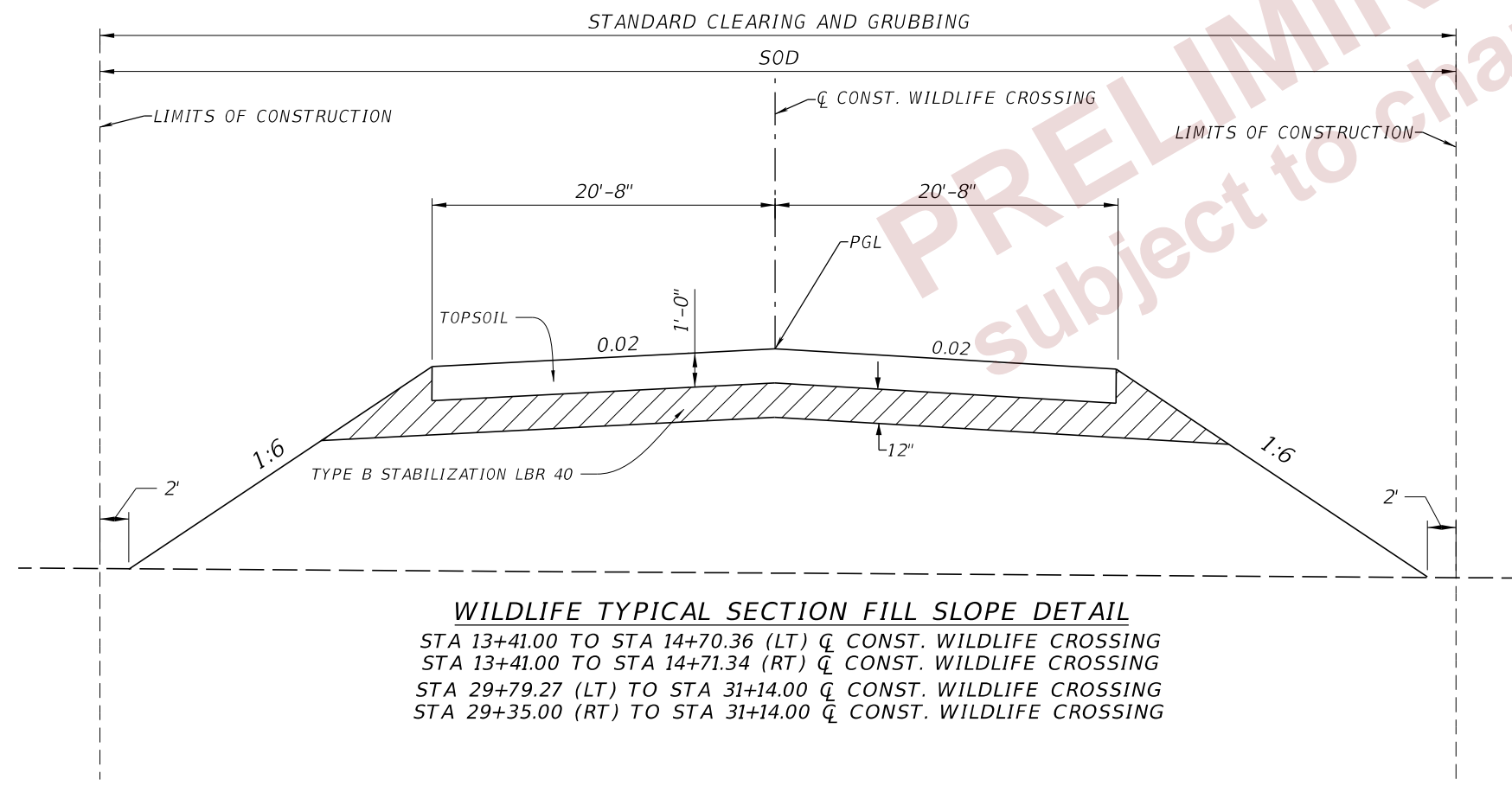
**WILDLIFE TYPICAL SECTION BARRIER WALL FENCE DETAIL**

STA 14+70.36 (LT) TO STA 18+30.00  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 14+70.34 (RT) TO STA 18+30.00  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 26+00.00 TO STA 29+79.27 (LT)  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 26+00.00 TO STA 29+35.00 (RT)  $\bar{C}$  CONST. WILDLIFE CROSSING



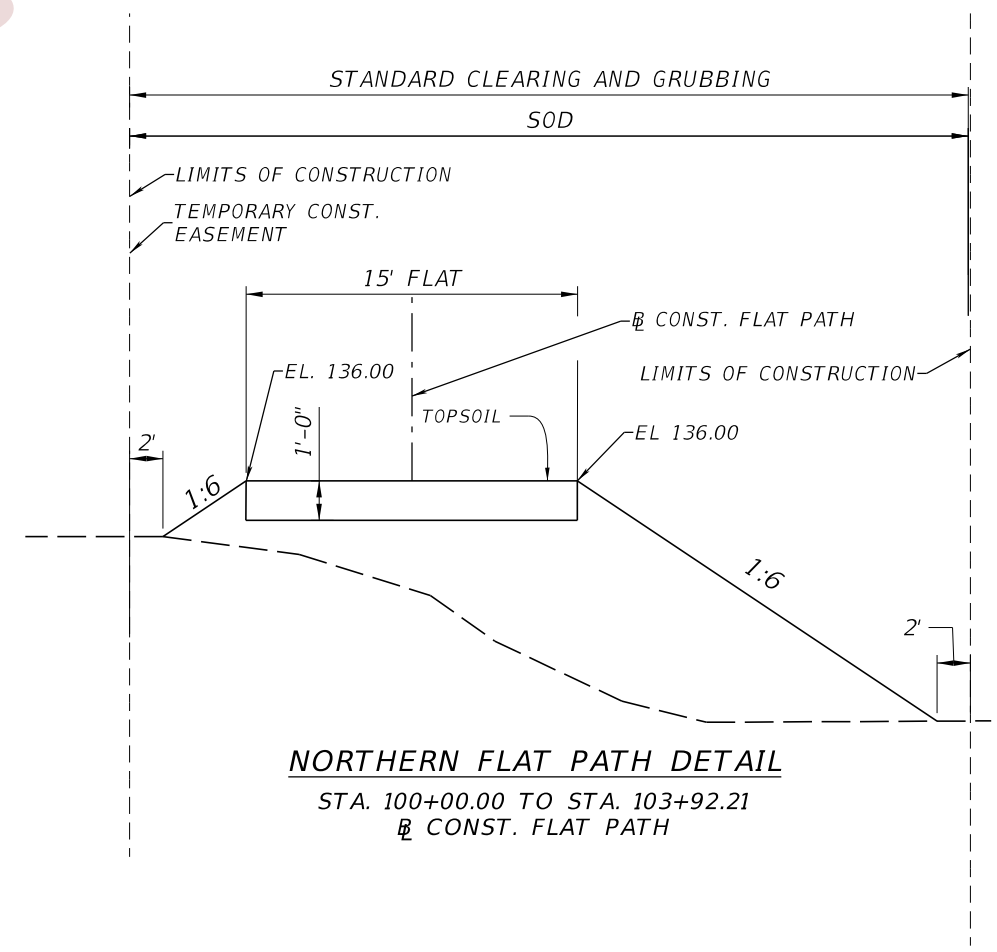
**SR 400 (I-4) GUARDRAIL TYPICAL SECTION DETAILS**

STA 1203+00.00 TO STA 1206+61.28  $\bar{B}$  SURVEY SR 400 (I-4) RT  
 STA 1205+75.85 TO STA 1209+50.00  $\bar{B}$  SURVEY SR 400 (I-4) LT



**WILDLIFE TYPICAL SECTION FILL SLOPE DETAIL**

STA 13+41.00 TO STA 14+70.36 (LT)  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 13+41.00 TO STA 14+71.34 (RT)  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 29+79.27 (LT) TO STA 31+14.00  $\bar{C}$  CONST. WILDLIFE CROSSING  
 STA 29+35.00 (RT) TO STA 31+14.00  $\bar{C}$  CONST. WILDLIFE CROSSING



**NORTHERN FLAT PATH DETAIL**

STA. 100+00.00 TO STA. 103+92.21  
 $\bar{B}$  CONST. FLAT PATH

PRELIMINARY  
subject to changes

REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  8
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	

**TYPICAL SECTION DETAILS**



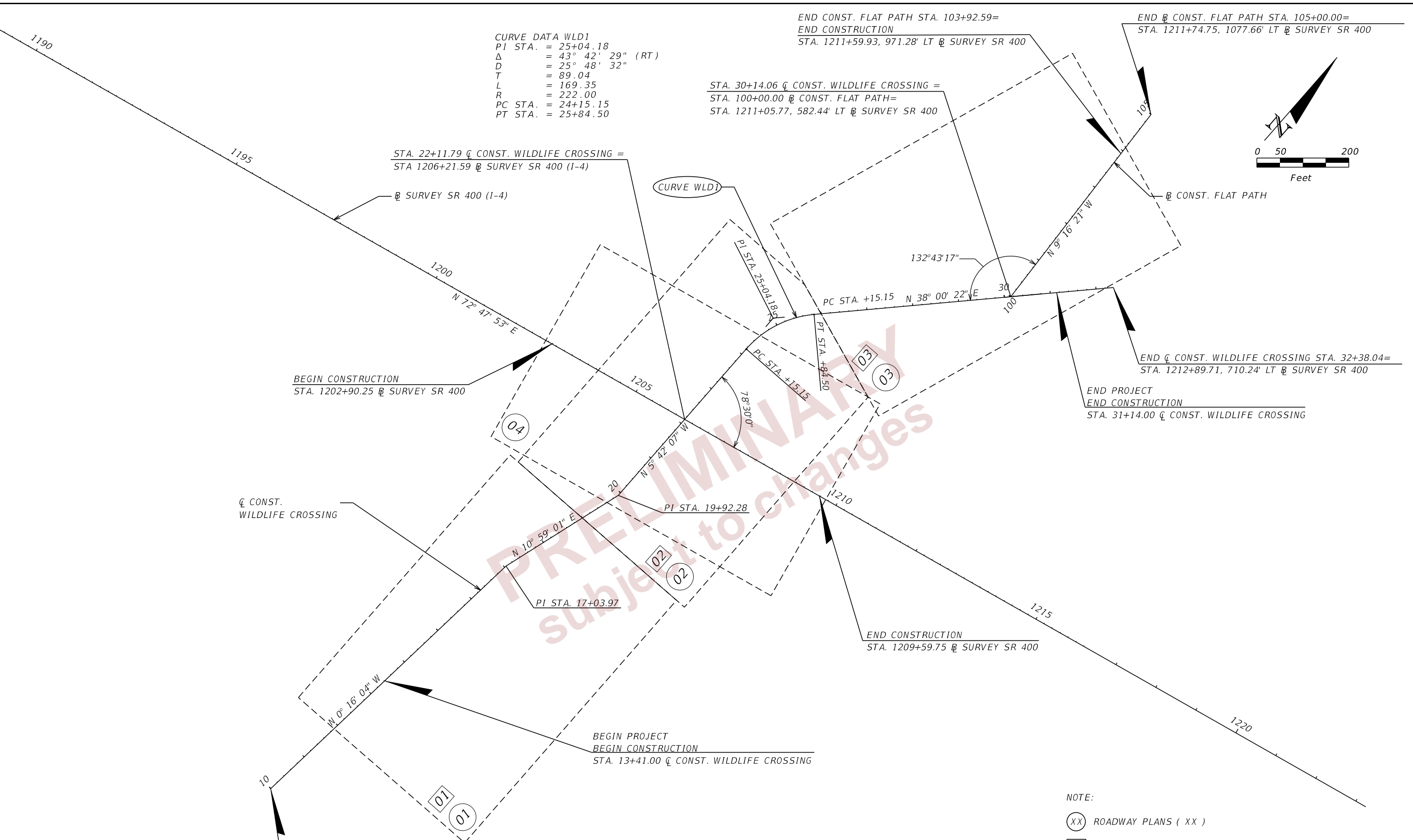


*Optional Materials Tabulation*

<i>Group Number</i>	<i>Size(s)</i>	<i>Material</i>	<i>PLOTTED</i>	<i>As Built</i>	<i>Remarks</i>
<i>Group 1</i>	<i>24</i>	<i>PP- CLASS II</i>	<i>X</i>		<i>Wall Zone B</i>
		<i>PVC, ASTM F-949</i>			

**PRELIMINARY**  
subject to changes

<i>REVISIONS</i>				<i>ENGINEER OF RECORD</i>		<i>STATE OF FLORIDA</i>			<b><i>OPTIONAL MATERIALS TABULATION</i></b>	<i>SHEET NO.</i>
<i>DATE</i>	<i>DESCRIPTION</i>	<i>DATE</i>	<i>DESCRIPTION</i>	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		<i>DEPARTMENT OF TRANSPORTATION</i>				
				<i>ROAD NO.</i>	<i>COUNTY</i>	<i>FINANCIAL PROJECT ID</i>				10

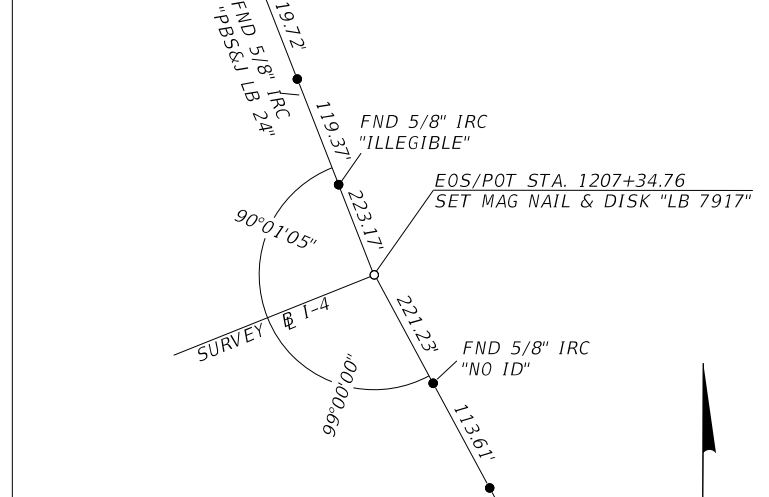
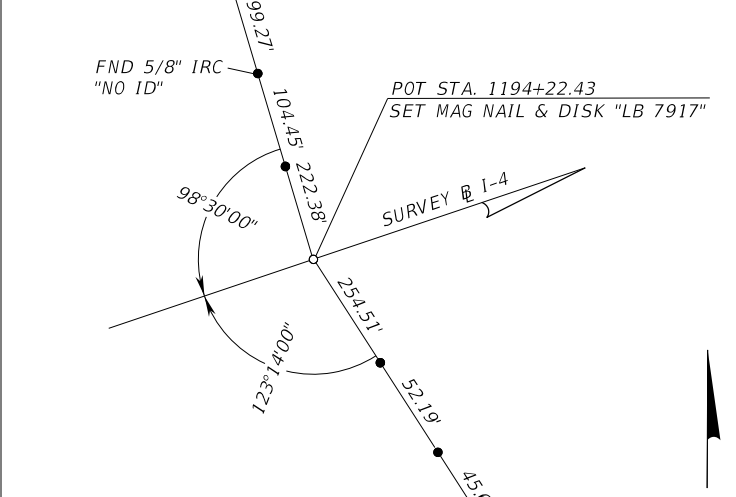
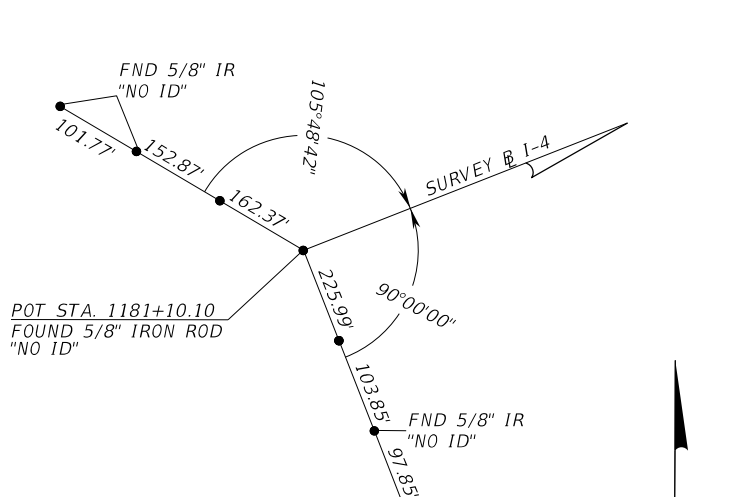
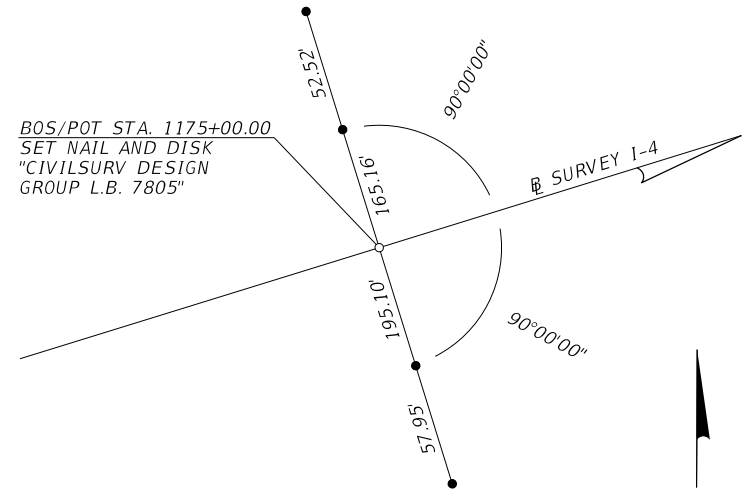


BEGIN @ CONST. WILDLIFE CROSSING STA. 10+00.00=  
 STA. 1202+36.60, 1142.67' RT @ SURVEY SR 400

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			PROJECT NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	<b>PROJECT LAYOUT</b> 11
					SR 400	POLK	201214-8-52-01	

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PRELIMINARY  
Subject to changes

**PROJECT CONTROL NOTES:**

- ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT.  
THE PROFFESIONAL SURVEYOR AND MAPPER OF RECORD IS:  
CHRISTOPHER J. BOSSHART, P.S.M.  
P.S.M. NO.: 7150  
MCKIM & CREED, INC.  
3903 NORTHDAL E BOULEVARD, SUITE 115E  
TAMPA, FLORIDA 33624  
CERTIFICATE OF AUTHORIZATION: 7917
- THE BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM (NAD) OF 1983 (ADJUSTMENT OF 2011)
- VERTICAL DAUM: NORTH AMERICAN VERTICAL M DATAM 1988 (NAVD88)

- LEGEND**
- = SET MAG NAIL AND DISK L.B. 7917 (UNLESS OTHERWISE NOTED)
  - = SET 5/8" IRON ROD AND CAP L.B. 7917 (UNLESS OTHERWISE NOTED)
  - L.B. = LICENSED BUSINESS
  - FND = FOUND
  - P.C. = POINT OF CURVE
  - P.I. = POINT OF INTERSECTION
  - P.T. = POINT OF TANGENT
  - P.O.T. = POINT ON TANGENT
  - P.O.C. = POINT ON CURVE
  - STA. = STATION
  - T.C. = TANGENT CURVE

**REFERENCE POINTS  
I-4 (SR 400)**

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>PROJECT CONTROLS (1)</b>	SHEET NO.  <b>12</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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PROJECT VERTICAL CONTROL							
NAME	(NAD 83 / 2011)		(NAVD88)	SURVEY $\beta$	STATION	OFFSET	DESCRIPTION
	NORTHING (Y)	EASTING (X)	ELEVATION				
BM 4008	1385899.65	696791.52	136.263	SR 400 (I-4)	1202+32	235.1 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4008"
BM 4009	1386218.99	697750.74	138.834	SR 400 (I-4)	1212+42	213.7 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4009"
BM 4010	1386501.30	698764.07	138.459	SR 400 (I-4)	1222+94	243.7 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4010"
BM 4011	1386811.77	699766.49	138.447	SR 400 (I-4)	1233+43	243.6 RT.	SET 4"X4" CONC. MON. WITH STANDARD FDOT BRASS DISK STAMPED "BM 4011"

PRELIMINARY  
 subject to changes

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>PROJECT CONTROLS (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		13
					SR 400	POLK	201214-8-52-01		



GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND NORTH AMERICAN DATUM OF 1983 (ADJ. OF 2011, NAD 1983).
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF THE DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

CHRISTOPHER J. BOSSHART, P.S.M.  
P.S.M. NO.: 7150  
MCKIM & CREED, INC.  
3903 NORTHDAL BLVD., SUITE 115E  
TAMPA, FL 33624  
CERTIFICATE OF AUTHORIZATION: 7917

3. ALL EXISTING DRAINAGE STRUCTURES SHALL REMAIN IN PLACE, UNLESS NOTED OTHERWISE IN THE PLANS.
4. ALL EXISTING FENCING SHALL REMAIN IN PLACE, UNLESS NOTED OTHERWISE IN THE PLANS.
5. ANY PUBLIC LAND CORNER OR BENCHMARK 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 ENGINEER WILL NOTIFY THE DISTRICT LOCATION SURVEYOR, DISTRICT 1 SURVEY DEPARTMENT.
6. SEE STRUCTURE PLANS FOR INFORMATION ON SOILS AND SOIL BORINGS.

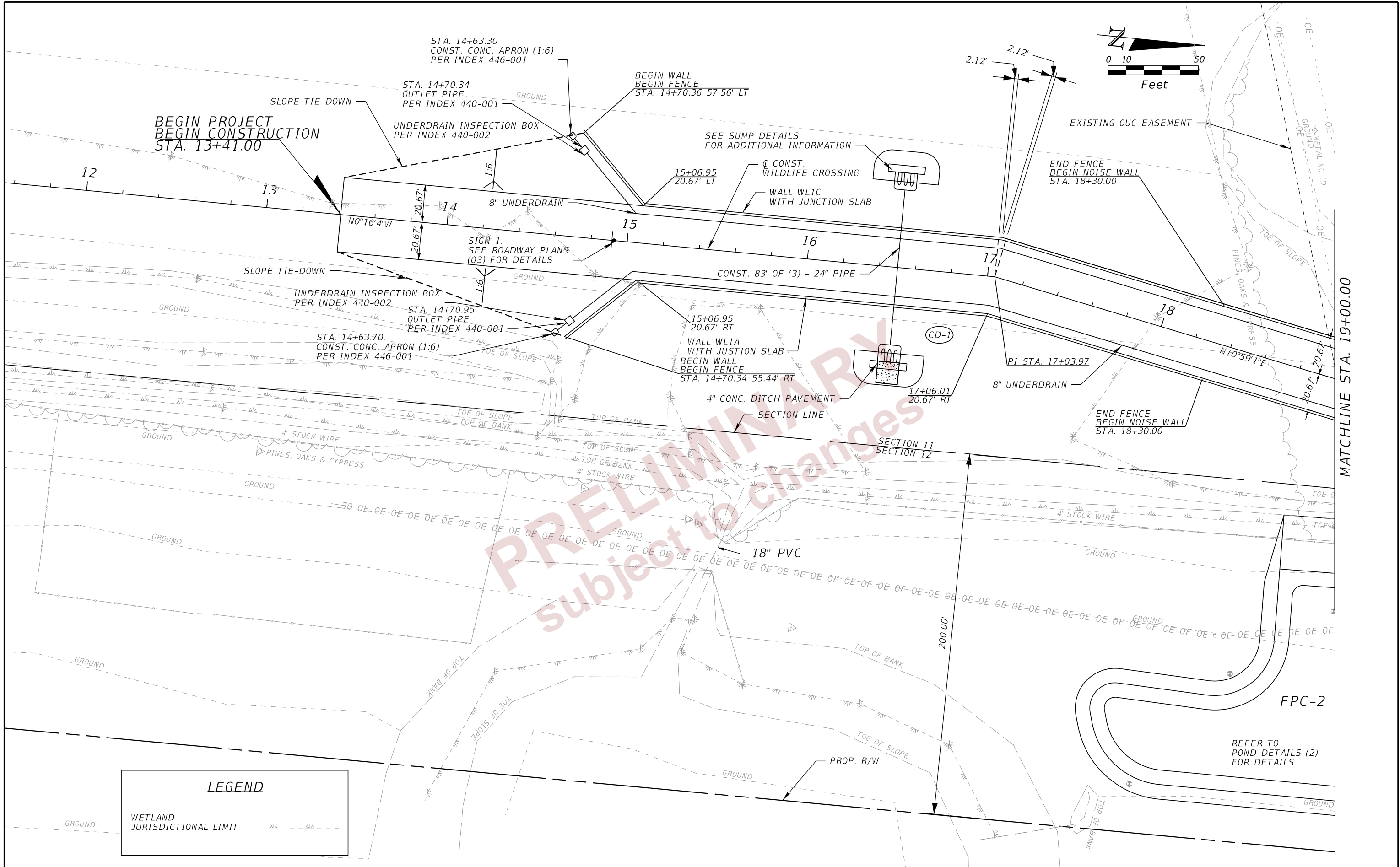
PAY ITEM NOTES

120-6 INCLUDES 2926.51 CY OF TOPSOIL  
440 1 2 INCLUDES 4" UNDERDRAIN AND 8" UNDERDRAIN

PRELIMINARY  
subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>GENERAL NOTES</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	14		
					SR 400	POLK	201214-8-52-01			

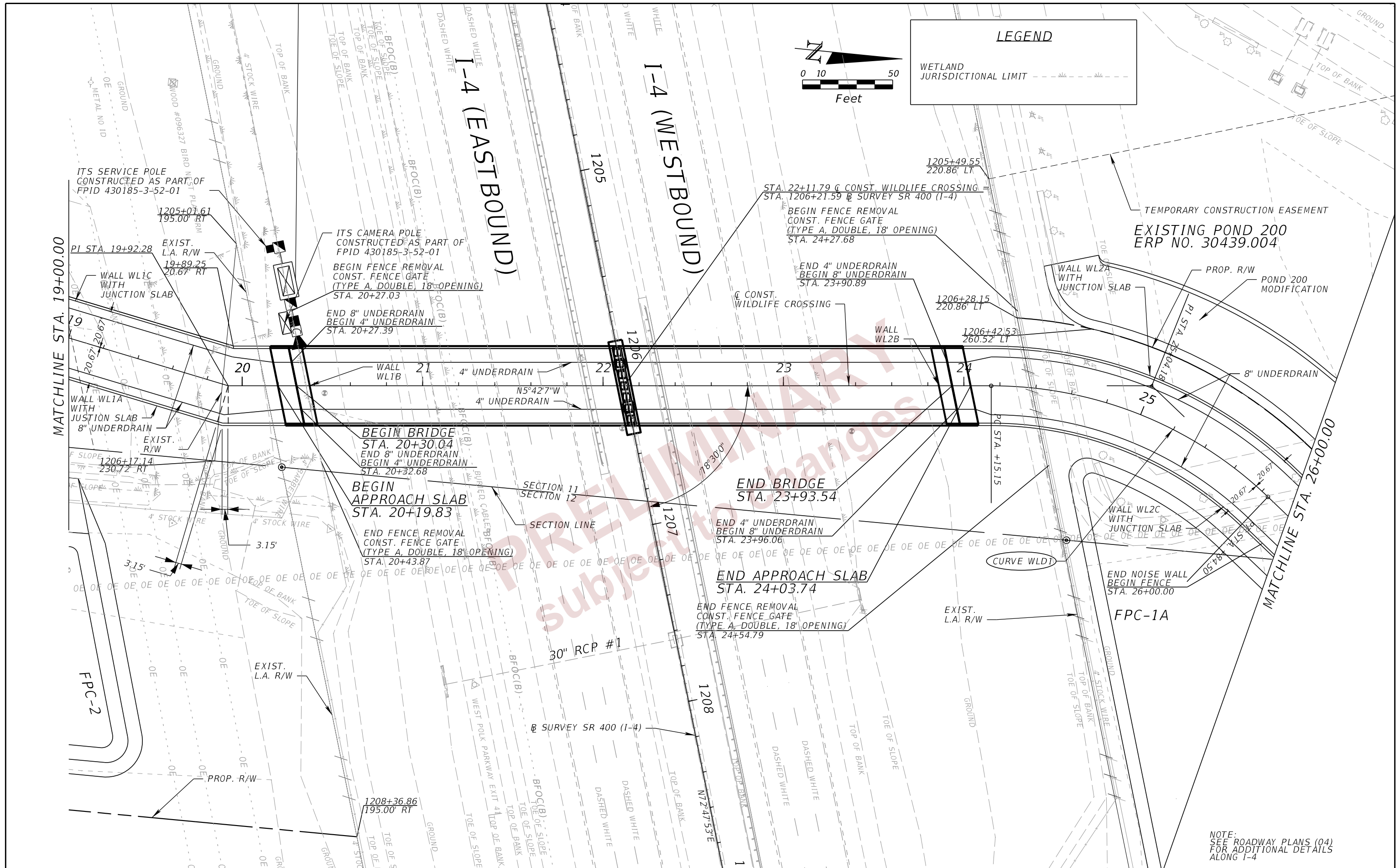




LEGEND	
WETLAND JURISDICTIONAL LIMIT	(Symbol: Dashed line with wavy pattern)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	15
<b>ROADWAY PLANS (01)</b>									

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

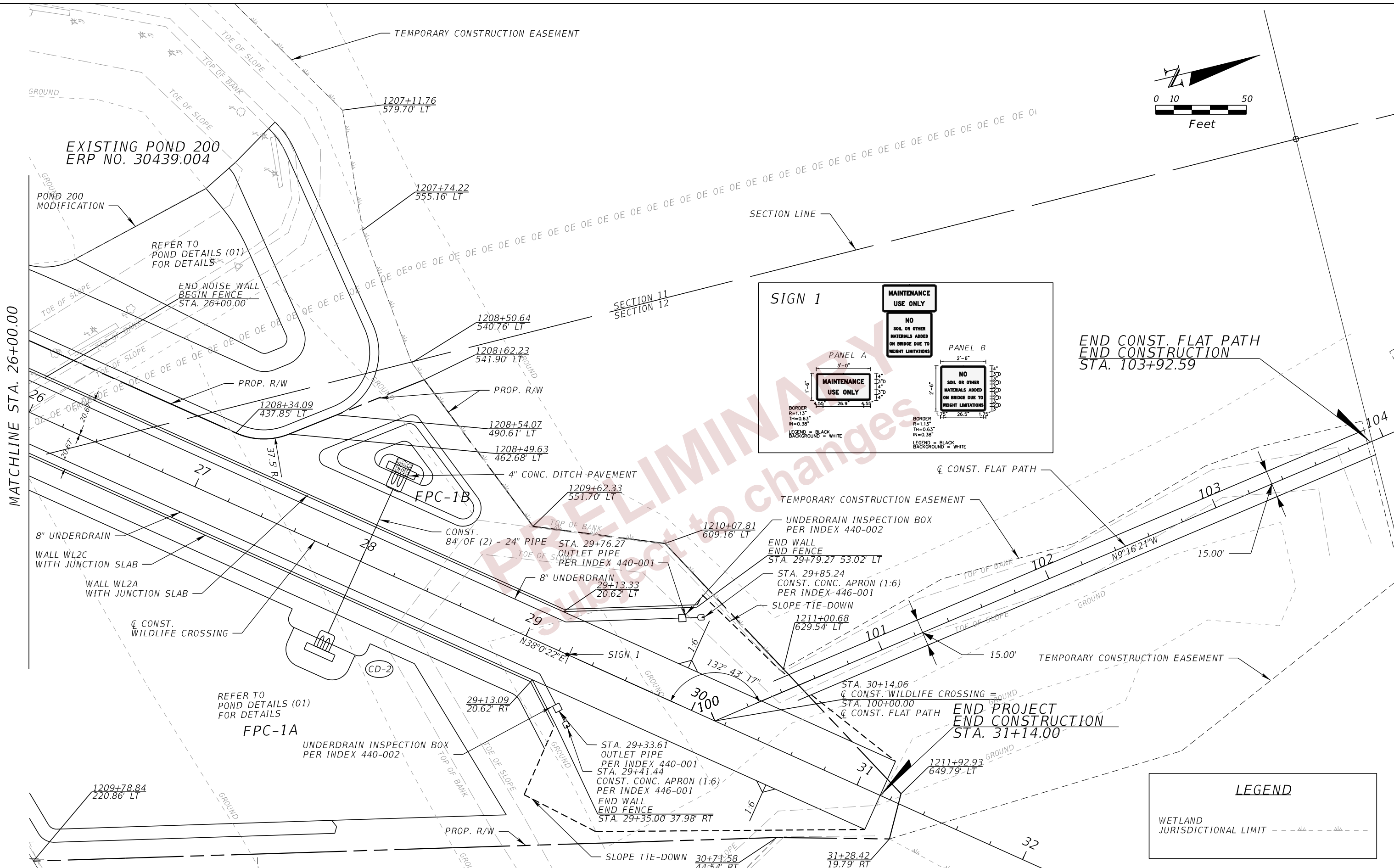


NOTE:  
SEE ROADWAY PLANS (04)  
FOR ADDITIONAL DETAILS  
ALONG I-4

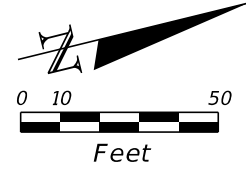
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROADWAY PLANS (02)  16
					SR 400	POLK	201214-8-52-01	

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



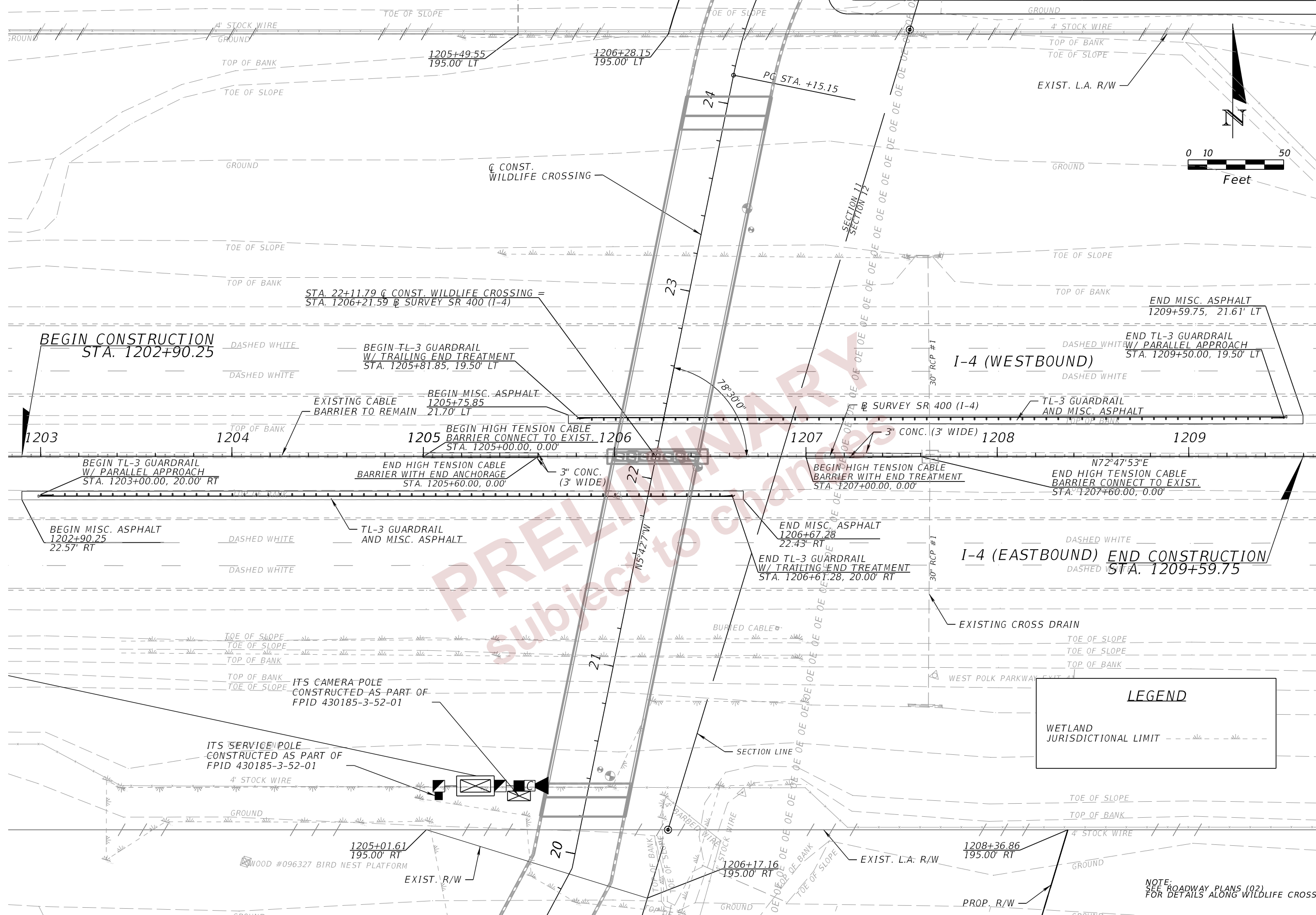


MATCHLINE STA. 26+00.00



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROADWAY PLANS (03)  17
					SR 400	POLK	201214-8-52-01	

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**LEGEND**

WETLAND JURISDICTIONAL LIMIT

NOTE: SEE ROADWAY PLANS (02) FOR DETAILS ALONG WILDLIFE CROSS.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01	
<b>ROADWAY PLANS (04)</b>									18

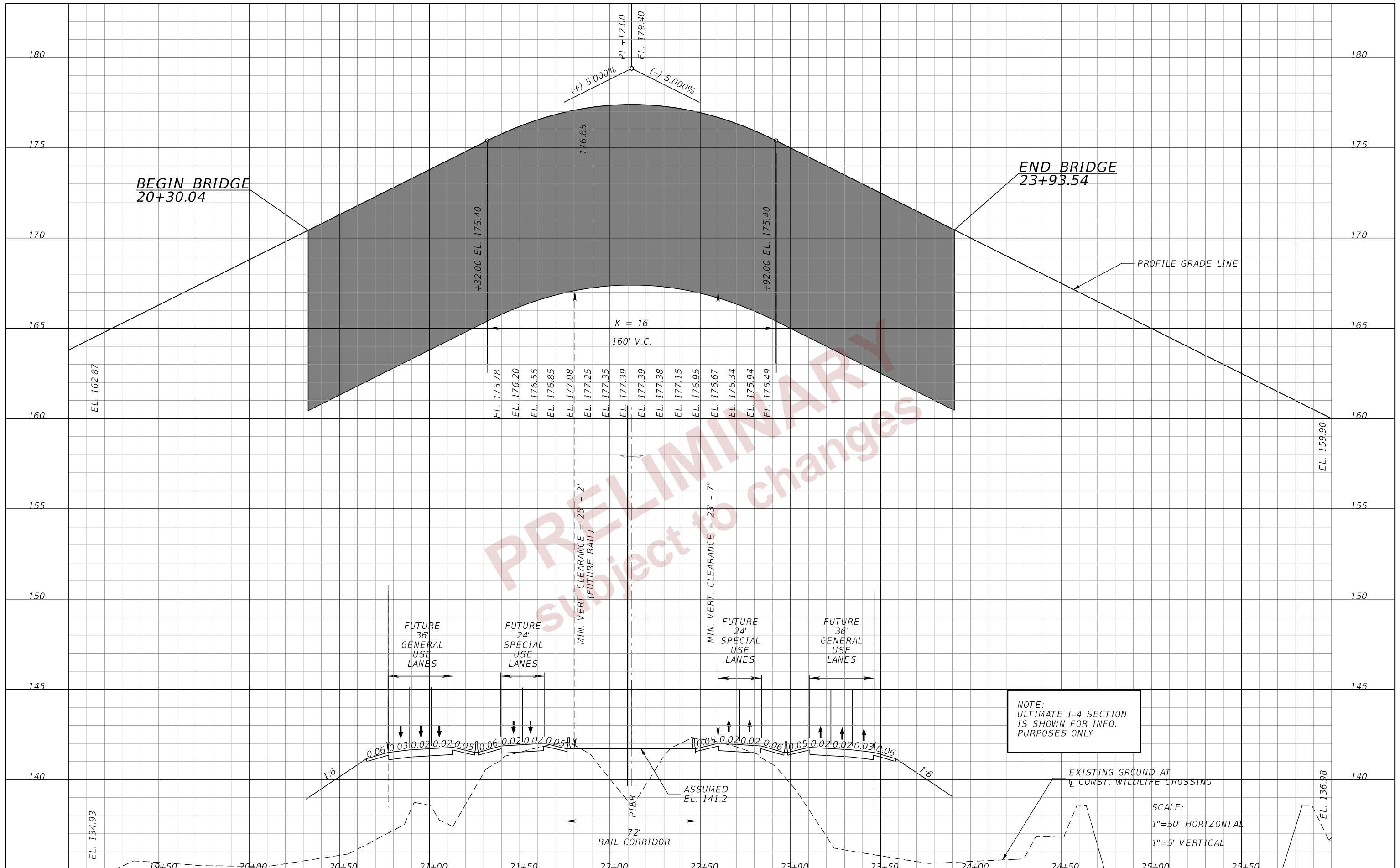
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





DATE		DESCRIPTION		DATE		DESCRIPTION		ENGINEER OF RECORD			STATE OF FLORIDA			ROADWAY PROFILES (01)	SHEET NO. 19
								DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			DEPARTMENT OF TRANSPORTATION				
								ROAD NO. SR 400			COUNTY POLK	FINANCIAL PROJECT ID 201214-8-52-01			

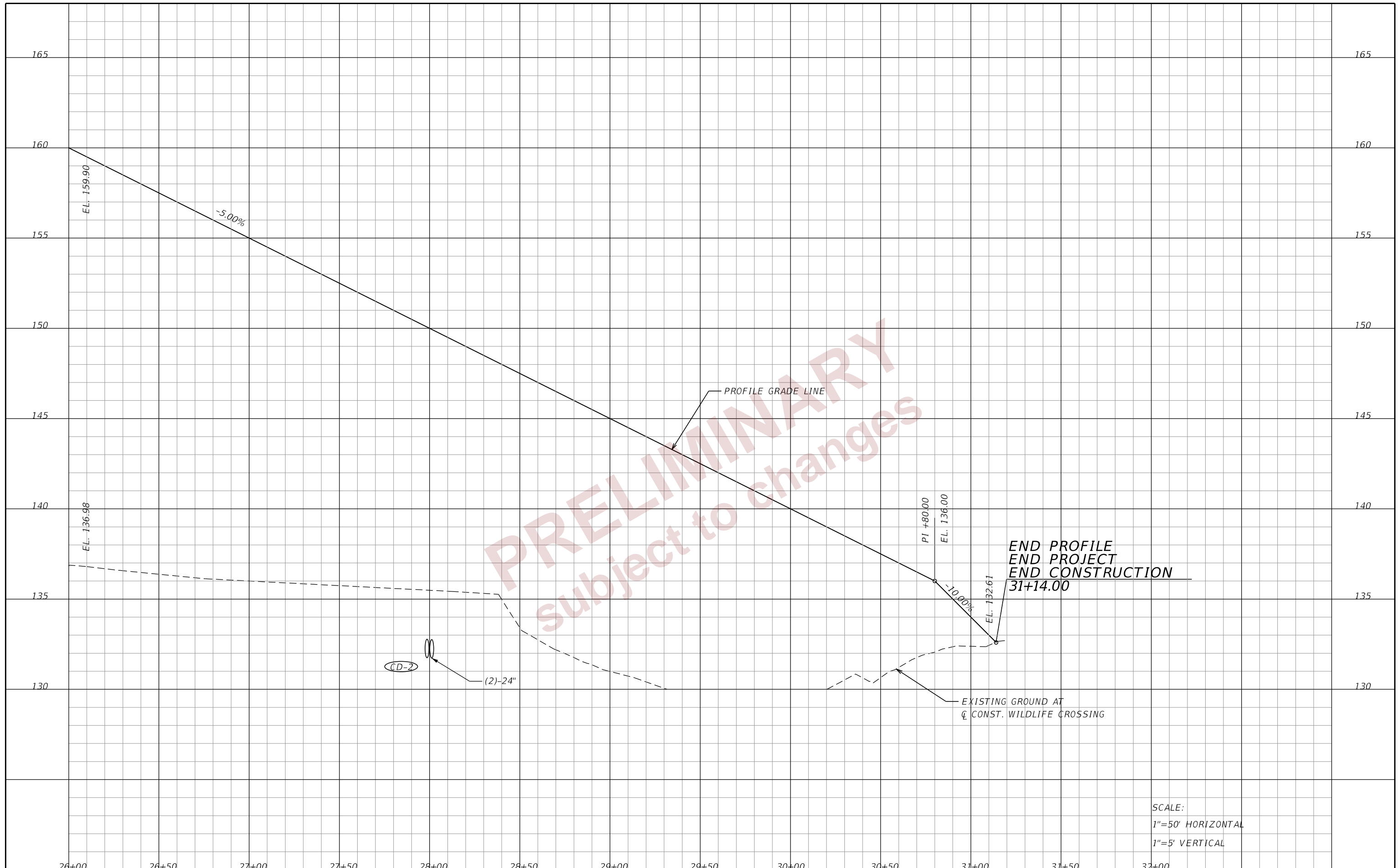
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA			ROADWAY PROFILES (02)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01		20

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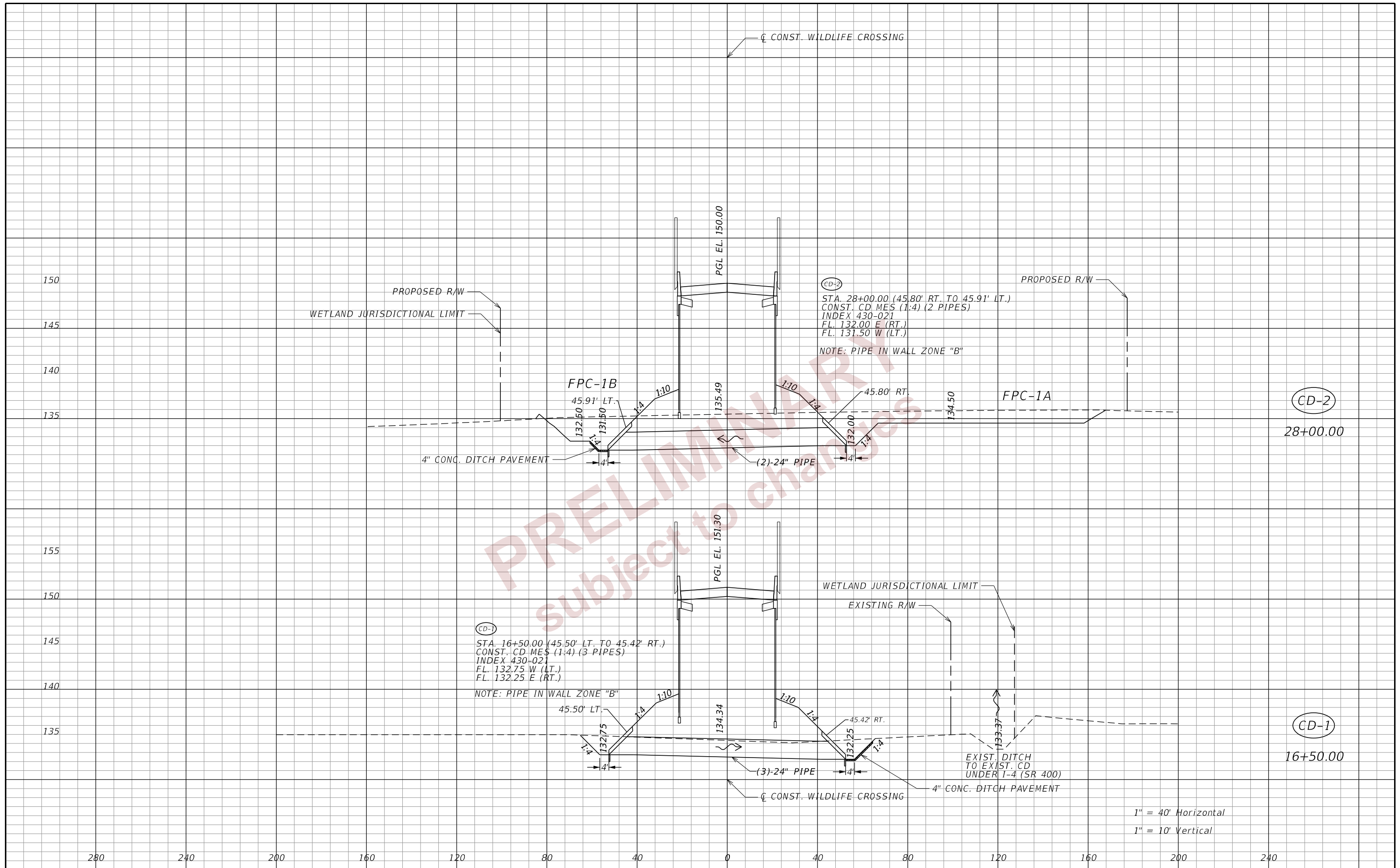
END PROFILE  
 END PROJECT  
 END CONSTRUCTION  
 31+14.00

EXISTING GROUND AT  
 Q CONST. WILDLIFE CROSSING

SCALE:  
 1"=50' HORIZONTAL  
 1"=5' VERTICAL

DATE		DESCRIPTION		DATE		DESCRIPTION		ENGINEER OF RECORD DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY PROFILES (03)	SHEET NO. 21
ROAD NO.		COUNTY		FINANCIAL PROJECT ID											
SR 400		POLK		201214-8-52-01											

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CD-2  
 STA. 28+00.00 (45.80' RT. TO 45.91' LT.)  
 CONST. CD MES (1:4) (2 PIPES)  
 INDEX 430-021  
 FL. 132.00 E (RT.)  
 FL. 131.50 W (LT.)  
 NOTE: PIPE IN WALL ZONE "B"

CD-1  
 STA. 16+50.00 (45.50' LT. TO 45.42' RT.)  
 CONST. CD MES (1:4) (3 PIPES)  
 INDEX 430-021  
 FL. 132.75 W (LT.)  
 FL. 132.25 E (RT.)  
 NOTE: PIPE IN WALL ZONE "B"

1" = 40' Horizontal  
 1" = 10' Vertical

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 400	POLK	201214-8-52-01	22
				<b>DRAINAGE STRUCTURES</b>			

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GEOTECHNICAL INFORMATION - END TERMINAL FOUNDATIONS									Table Date 1/9/15
Soil Description		Begin of Run			End of Run				
		Medium Dense to Dense Sand	Medium Dense Sand		Design Groundwater Depth (ft)	Medium Dense to Dense Sand	Medium Dense Sand		Design Groundwater Depth (ft)
Depth Below Existing Ground Line (ft.)	HTCB Run No. 1	0 - 23.5	23.5 - 35.0		0	0 - 23.5	23.5 - 35.0		0
	HTCB Run No. 2	0 - 23.5	23.5 - 35.0		0	0 - 23.5	23.5 - 35.0		0
	HTCB Run No. 3	0 - 23.5	23.5 - 35.0		0	0 - 23.5	23.5 - 35.0		0
	HTCB Run No. 4	0 - 23.5	23.5 - 35.0		0	0 - 23.5	23.5 - 35.0		0
Total Unit Weight (pcf)		115	105		—	115	105		—
Effective Unit Weight (pcf)		53	43		—	53	43		—
Cohesion (psf)		0	0		—	0	0		—
Internal Friction Angle (deg)		31	29		—	31	29		—

SUMMARY OF HTCB LOCATIONS AND FOUNDATIONS						Table Date 1/9/15
HTCB Run No.	GENERAL HTCB SEGMENTS		Line Post Foundation Type (*)	SPECIAL LINE POST SPACING		
	Begin Station	End Station		Post Spacing (ft)	Begin Station	End Station
1	1205+00.00	1205+60.00	2	—	—	—
2	1207+00.00	1207+60.00	2	—	—	—

(\*) See "GEOTECHNICAL INFORMATION - LINE POST FOUNDATIONS" Data Table  
 1 = Unsaturated  
 2 = Saturated  
 SD# \_\_ = Special Design (\_\_\_\_\_)  
 SD# \_\_ = Special Design (\_\_\_\_\_)

GEOTECHNICAL INFORMATION - LINE POST FOUNDATIONS					Table Date 1/9/15
	Unsaturated Sand	Saturated Sand	SD# __	SD# __	
Design Groundwater Depth (ft)	N/A	0	—	—	
Total Unit Weight (pcf)	112	112	—	—	
Effective Unit Weight (pcf)	N/A	50	—	—	
Cohesion (psf)	0	0	—	—	
Internal Friction Angle (deg)	30	30	—	—	

NOTE:  
 SD# corresponds to the Special Design Number shown on the "SUMMARY OF HTCB LOCATIONS AND FOUNDATIONS" Data Table.

NOTES:

- See Developmental Standard Plans 540-001 for General Notes and Details (Sheet \_#\_).
- See Shop Drawings for End Terminal and Line Post Foundation Details.

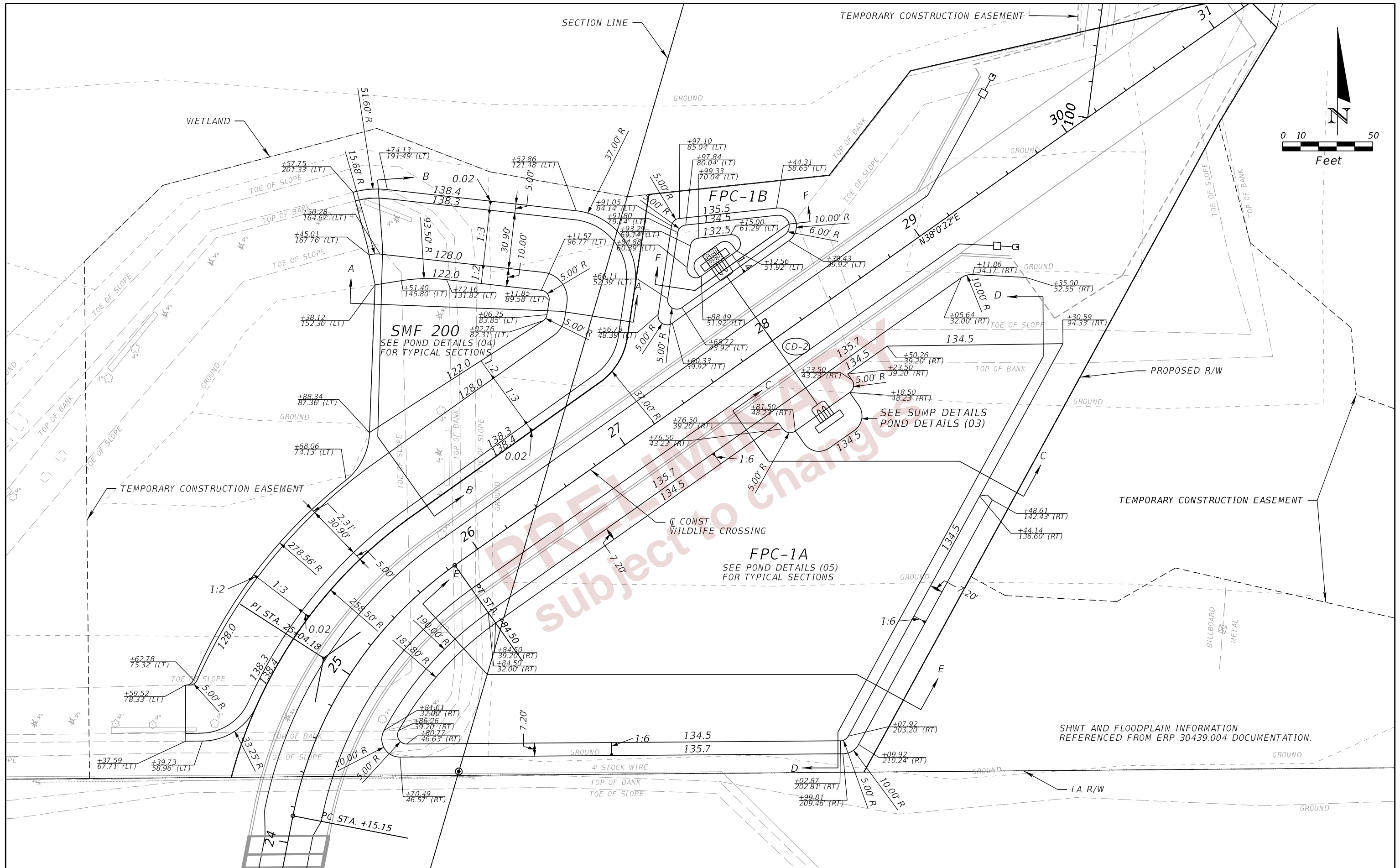
HIGH TENSION CABLE BARRIER (HTCB) DESIGN DATA TABLES  
 HTCB Run No. 1 through 2

2/11/2024 12:25:30 PM JBLOUNT  
 c:\pw\_working\lochner-pw-01\dms18737\HTCB\_TABLES.dgn

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  23
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01	

**SPECIAL DETAILS**  
**HTCB GEOTECHNICAL DATA**



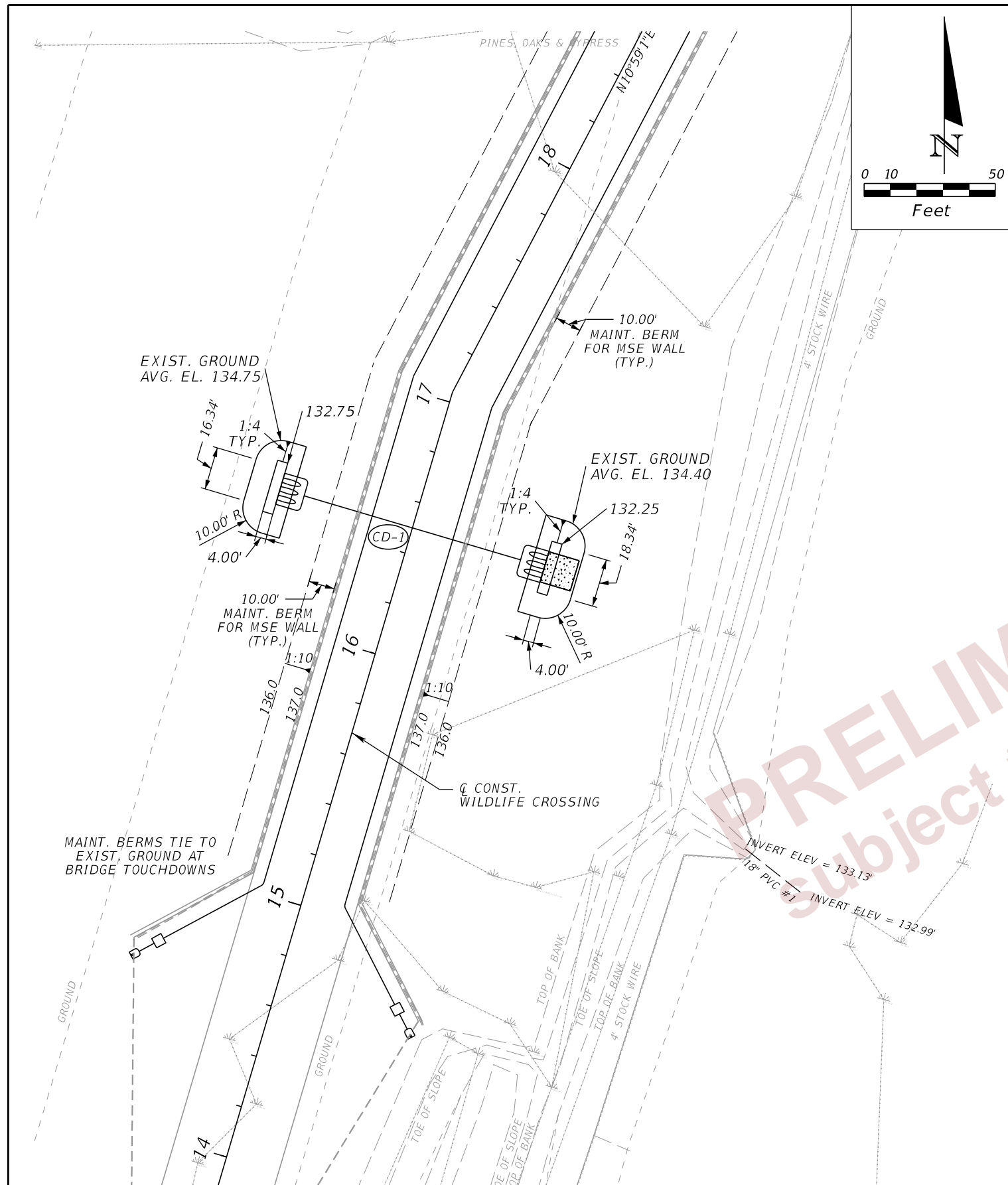
REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	24
					SR 400	POLK	201214-8-52-01	

**POND DETAILS (01)**

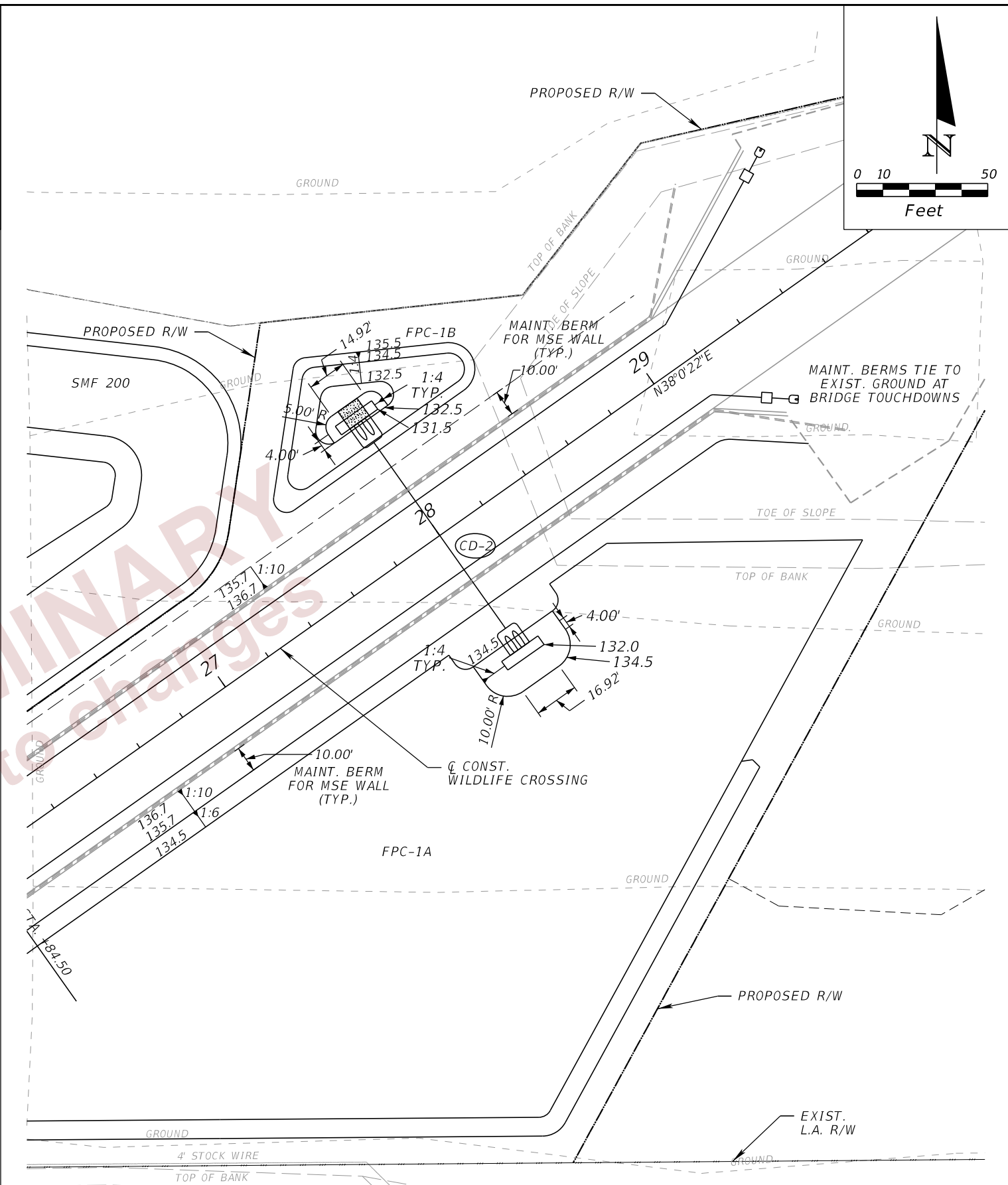
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.







CD-1, STA. 16+50.00  
SUMP DETAILS



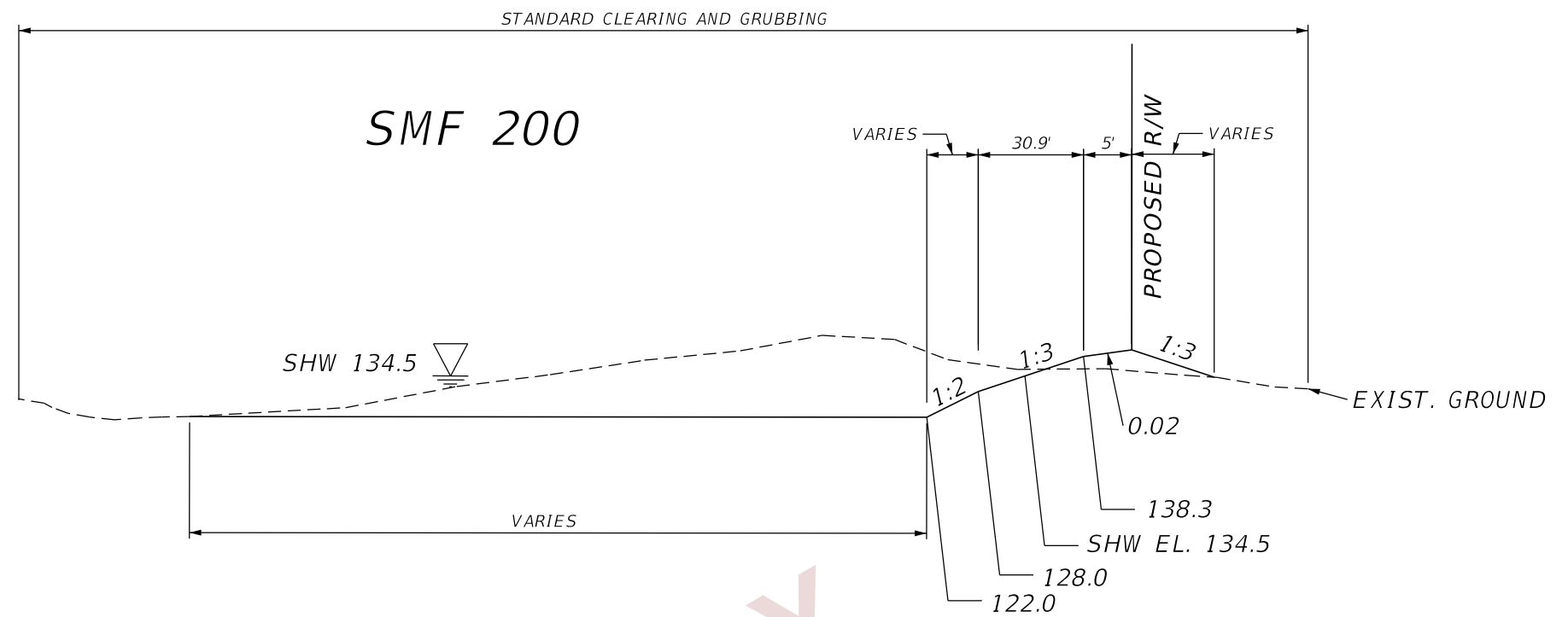
CD-2, STA. 28+00.00  
SUMP DETAILS

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01	26
<b>POND DETAILS (03)</b>								

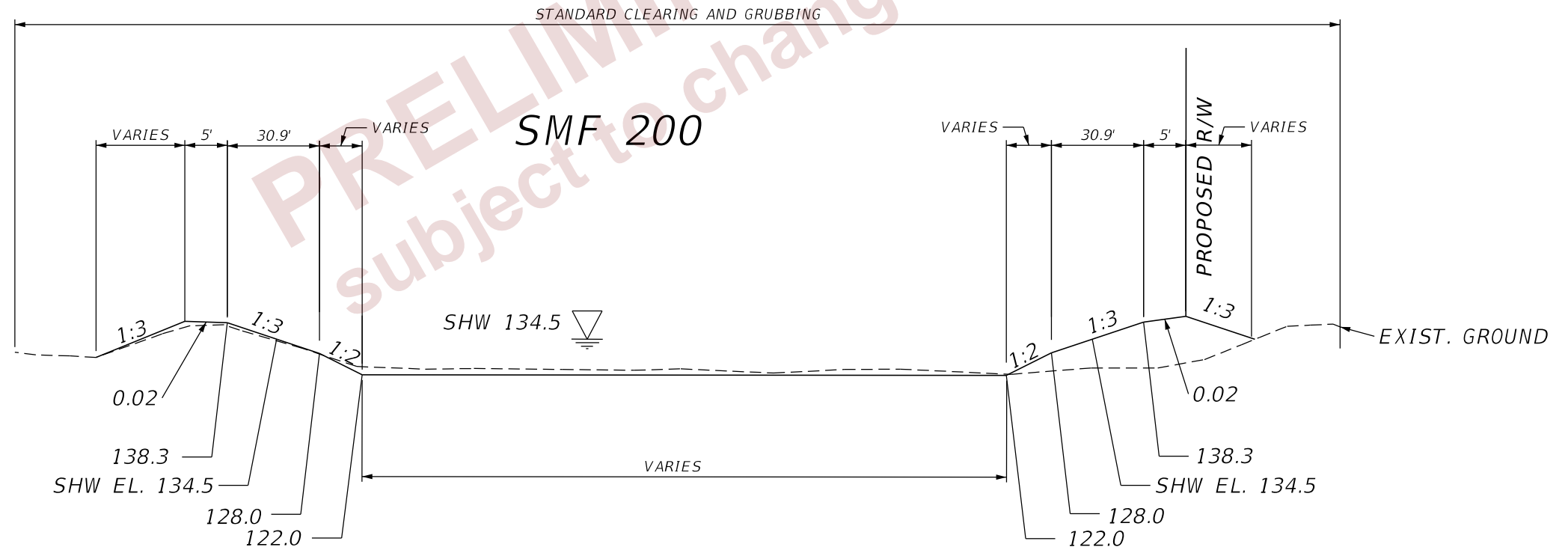
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



NOTE: SMF 200 IS AN EXISTING WET DETENTION STORMWATER TREATMENT POND, CONSTRUCTED UNDER ERP NO. 30439.004. THE GEOMETRY OF SMF 200 WILL BE MODIFIED BY THIS PROJECT TO ACCOMMODATE THE FOOTPRINT OF THE WILDLIFE CROSSING OVER I-4 (SR 400).



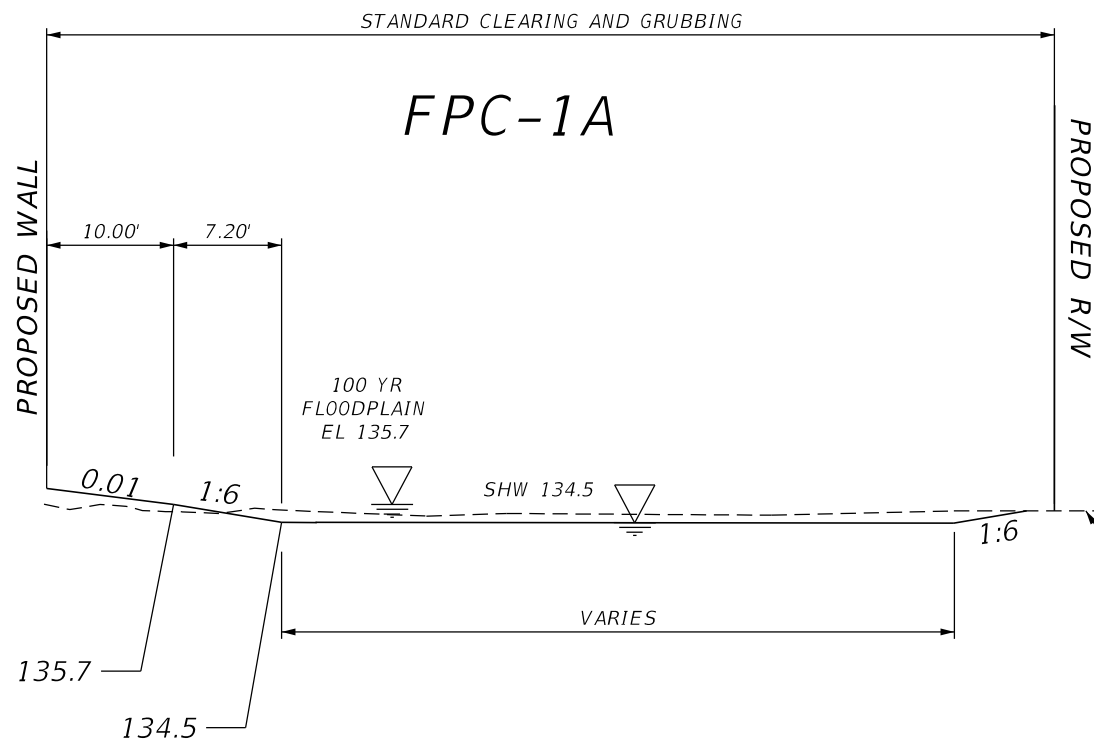
SECTION A-A  
NTS



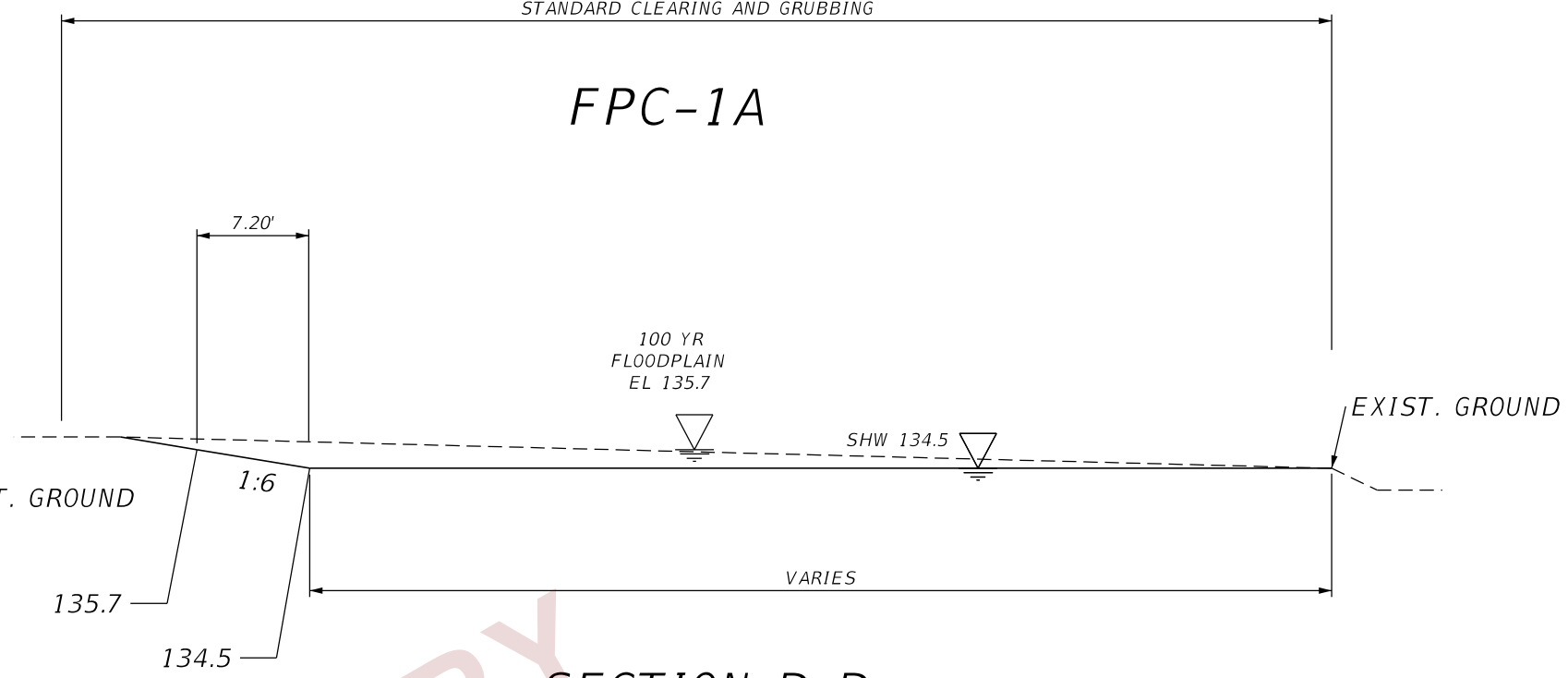
SECTION B-B  
NTS

PRELIMINARY  
 subject to changes

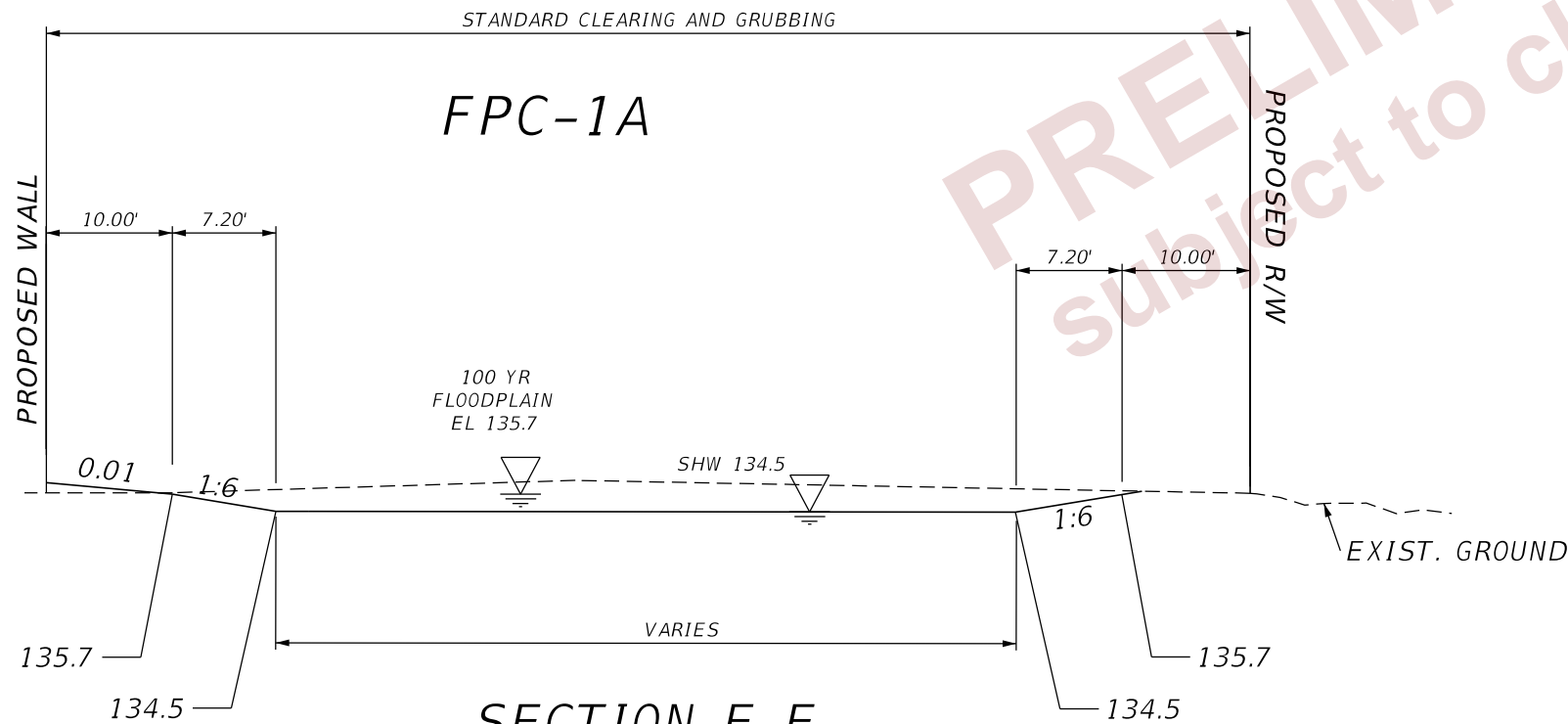
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAILS (04)	SHEET NO.  27
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		



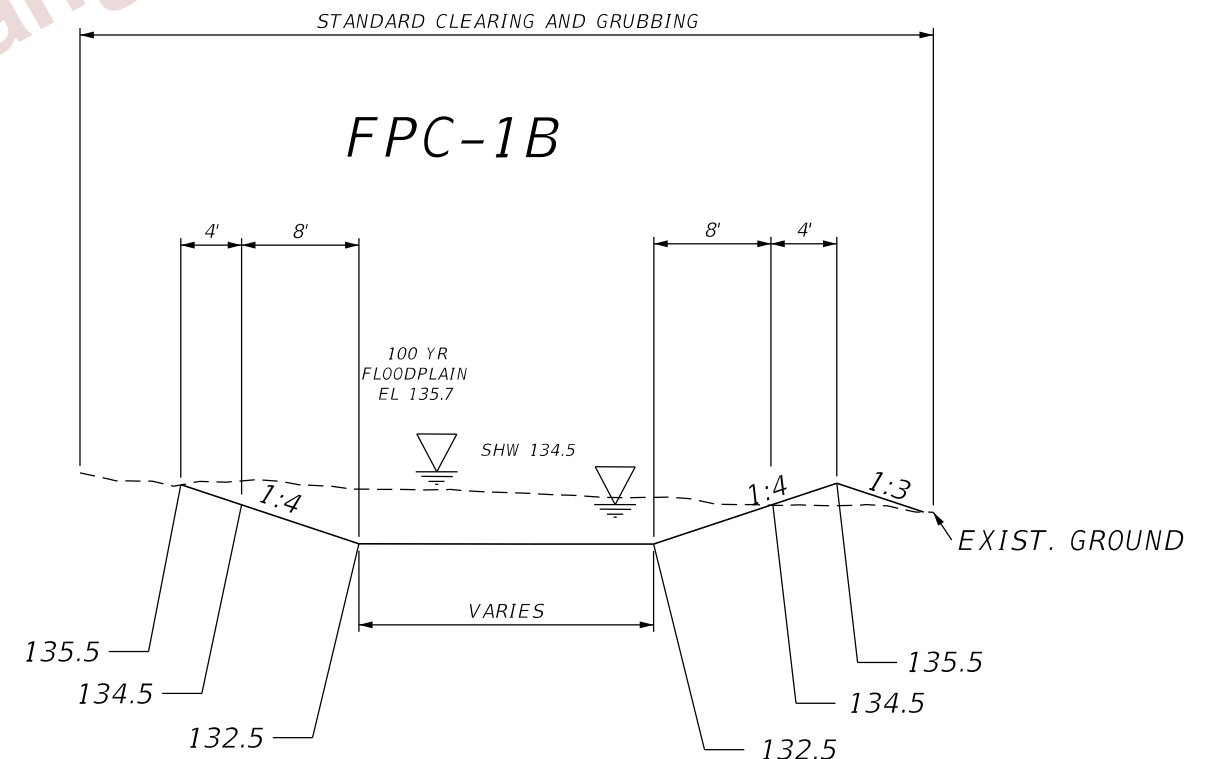
SECTION C-C  
NTS



SECTION D-D  
NTS



SECTION E-E  
NTS

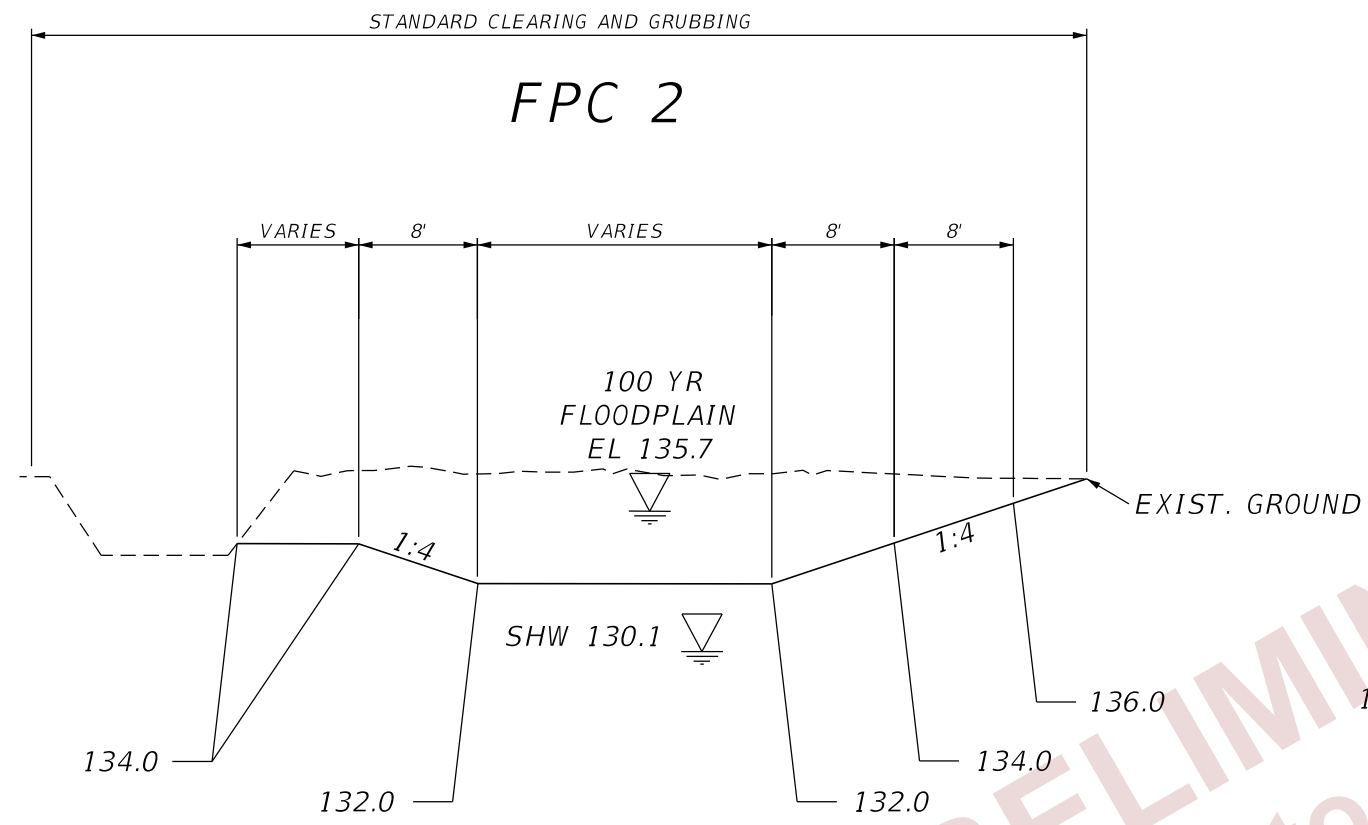


SECTION F-F  
NTS

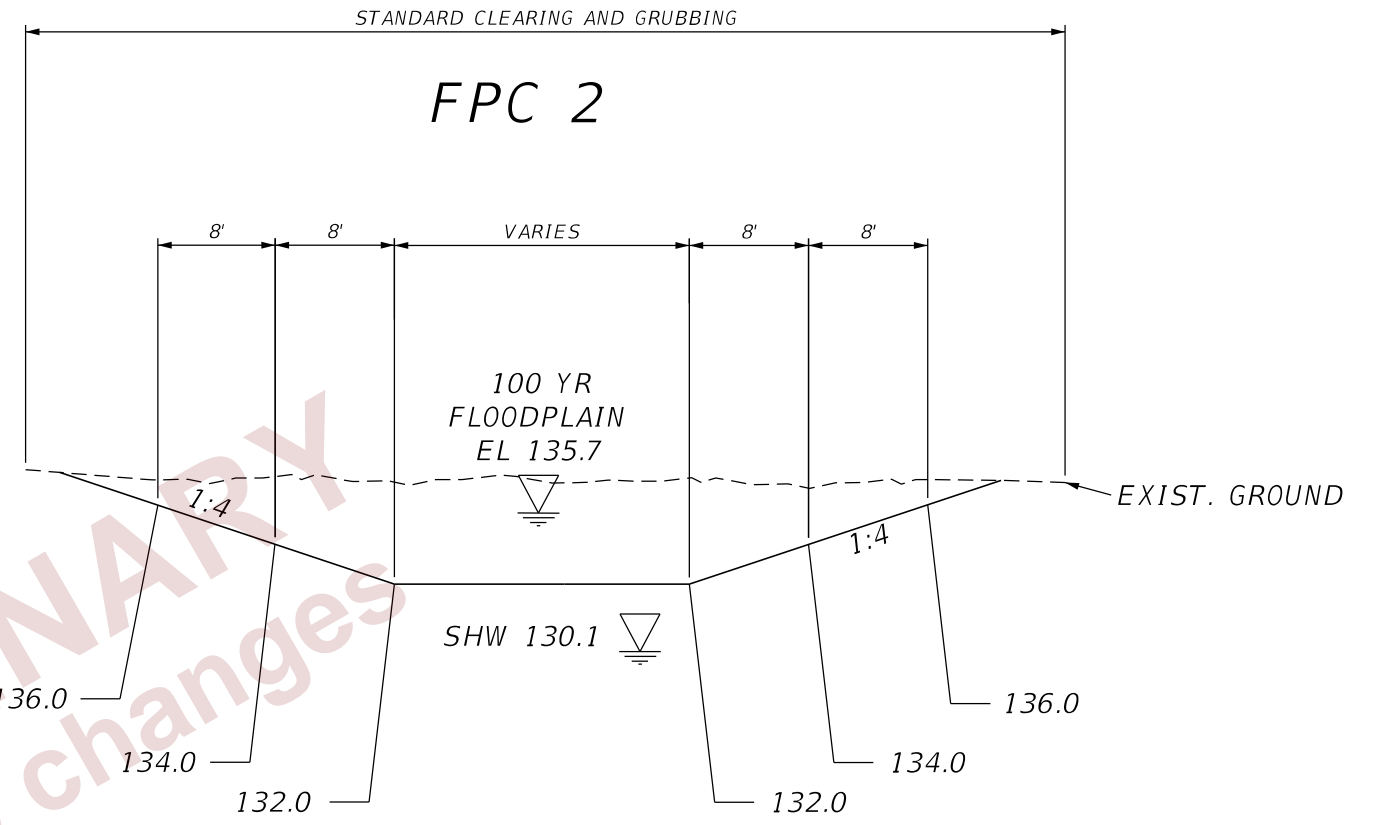
PRELIMINARY  
 Subject to changes

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			POND DETAILS (05)	SHEET NO.  28
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LÖCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 400	POLK	201214-8-52-01		





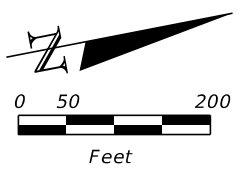
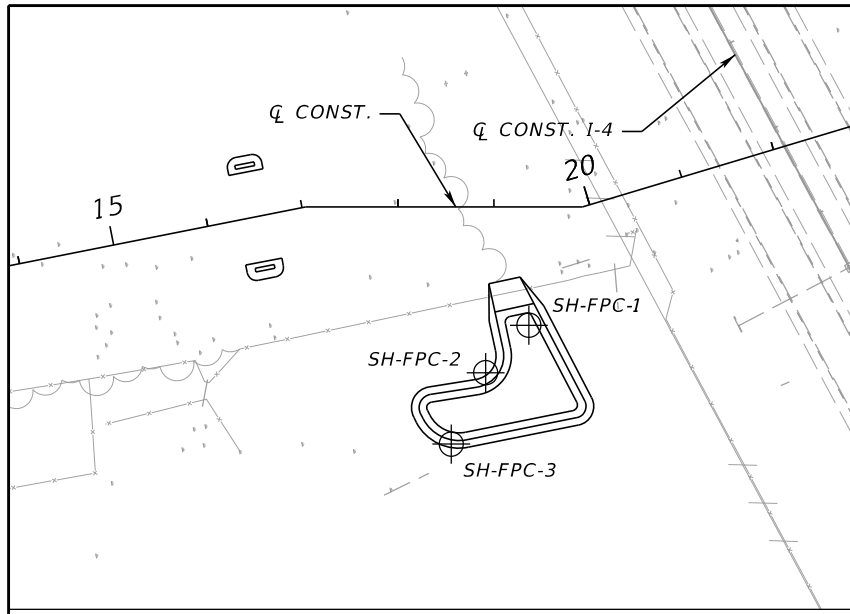
SECTION G-G  
NTS



SECTION H-H  
NTS

PRELIMINARY  
 subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	<b>POND DETAILS (06)</b>  29



NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

**BORING LOCATION PLAN**

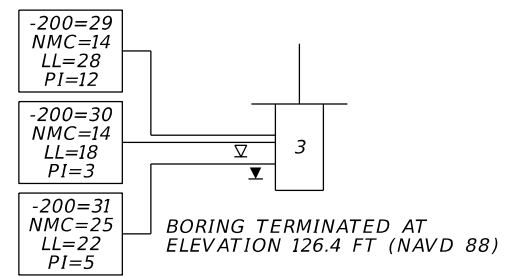
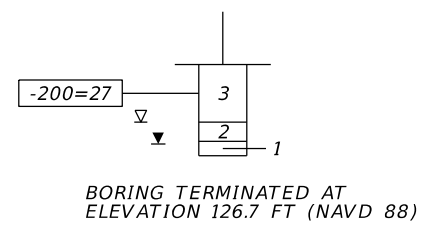
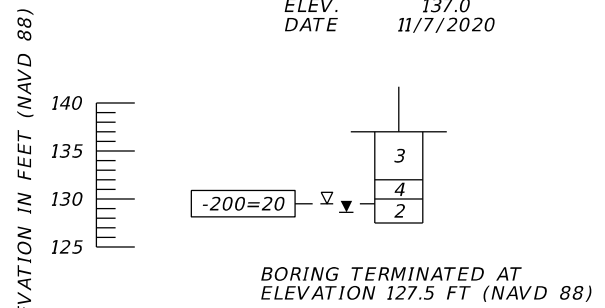
- LEGEND**
1. LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
  2. LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
  3. LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
  4. LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
  5. LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
  6. DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE  
 NMC NATURAL MOISTURE CONTENT (%)  
 LL LIQUID LIMIT (%)  
 PI PLASTICITY INDEX (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
  - ⊙ APPROXIMATE SPT BORING LOCATION
  - ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
  - ▽+ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
  - ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
  - Q CONST. CENTERLINE CONSTRUCTION WILDLIFE CROSSING
  - Q CONST. I-4 CENTERLINE CONSTRUCTION OF I-4
  - CAVE-IN BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

PRELIMINARY  
Subject to changes

BOR # SH-FPC-1  
 STA. 19+36  
 REF. Q CONST.  
 OFF. 123' RT.  
 ELEV. 137.0  
 DATE 11/7/2020

BOR # SH-FPC-2  
 STA. 18+91  
 REF. Q CONST.  
 OFF. 173' RT  
 ELEV. 136.2  
 DATE 11/7/2020

BOR # SH-FPC-3  
 STA. 18+56  
 REF. Q CONST.  
 OFF. 247' RT  
 ELEV. 135.4  
 DATE 11/7/2020



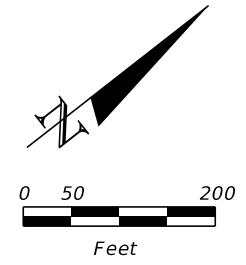
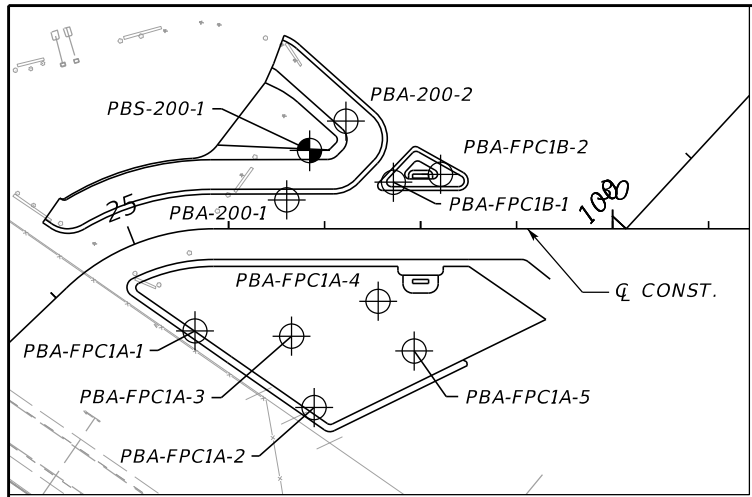
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

FPC-2

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. <b>30</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 33	POLK	201214-8-52-01	<b>POND SOIL SURVEY (1)</b>			

5/17/2023 2:18:22 PM bsawaska J:\6511\2014 Files\6511-14-074 SR 33 at I-4\20121485201\ORD\201214-8-52-01\Geotechnical\PBORR001.dgn

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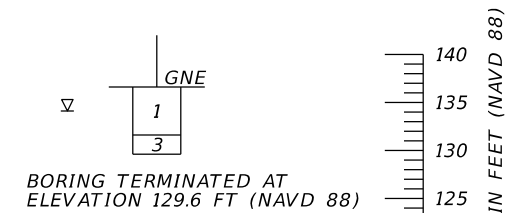
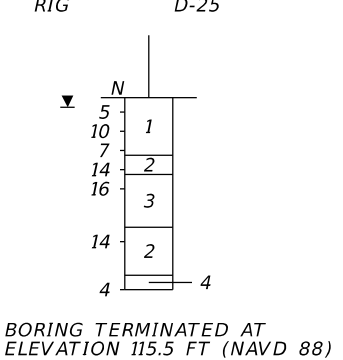
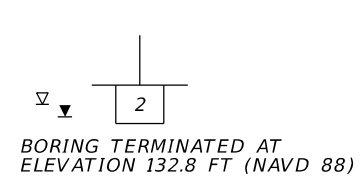
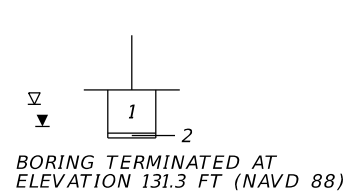
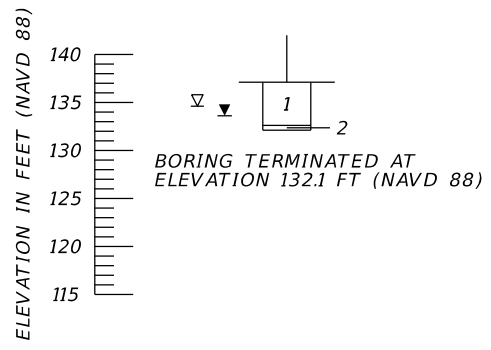
NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

**BORING LOCATION PLAN**

- LEGEND**
- LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
  - LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
  - LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
  - LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
  - LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
  - DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE  
 NMC NATURAL MOISTURE CONTENT (%)  
 LL LIQUID LIMIT (%)  
 PI PLASTICITY INDEX (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- APPROXIMATE AUGER BORING LOCATION
  - APPROXIMATE SPT BORING LOCATION
  - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
  - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
  - GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
  - Q CONST. CENTERLINE CONSTRUCTION WILDLIFE CROSSING
  - Q CONST. I-4 CENTERLINE CONSTRUCTION OF I-4
  - CAVE-IN BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

PRELIMINARY  
Subject to changes

BOR # PBA-FPC1A-1 STA. 25+47 REF. Q CONST. OFF. 105' RT. ELEV. 137.1 DATE 12/13/2022	BOR # PBA-200-1 STA. 26+61 REF. Q CONST. OFF. 30' LT. ELEV. 136.3 DATE 12/14/2022	BOR # PBA-FPC1A-3 STA. 26+66 REF. Q CONST. OFF. 112' RT. ELEV. 136.8 DATE 12/14/2022	BOR # PBS-200-1 STA. 26+85 REF. Q CONST. OFF. 82' LT. ELEV. 135.5 DATE 12/16/2022 DRILLER J. ERICKSON HAMMER AUTOMATIC RIG D-25	BOR # PBA-FPC1A-2 STA. 26+89 REF. Q CONST. OFF. 186' RT. ELEV. 136.6 DATE 12/14/2022
---	--	---	---	---



	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
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DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
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SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

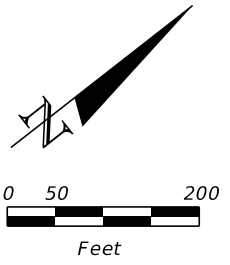
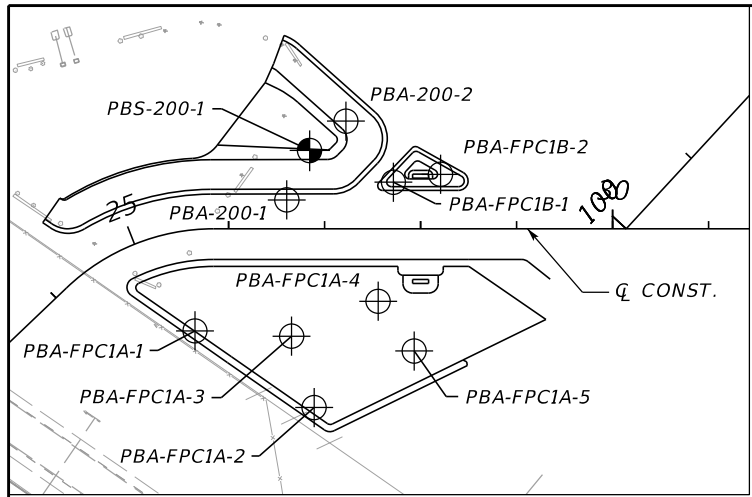
FPC-1A, FPC-1B, SMF 200

<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS		DATE	DESCRIPTION			<table border="1"> <thead> <tr> <th colspan="2">ENGINEER OF RECORD</th> </tr> </thead> <tbody> <tr> <td colspan="2">LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637</td> </tr> </tbody> </table>		ENGINEER OF RECORD		LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637		<table border="1"> <thead> <tr> <th colspan="3">STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</th> </tr> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SR 33</td> <td>POLK</td> <td>201214-8-52-01</td> </tr> </tbody> </table>			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 33	POLK	201214-8-52-01	<p style="text-align: center; font-size: 24px;"><b>POND SOIL SURVEY (2)</b></p>		<table border="1"> <tr> <td>SHEET NO.</td> </tr> <tr> <td style="text-align: center;">31</td> </tr> </table>	SHEET NO.	31
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NOTE: THE LOCATIONS AND ELEVATIONS OF THE BORINGS WERE PROVIDED BY THE PROJECT SURVEYOR, MCKIM AND CREED.

**BORING LOCATION PLAN**

PRELIMINARY  
subject to changes

**LEGEND**

1. LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT (A-3/A-2-4)
  2. LIGHT GRAY TO DARK BROWN SILTY SAND (A-2-4)
  3. LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND (A-2-4/A-2-6)
  4. LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY (A-4/A-6/A-7-6)
  5. LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY (A-7-5/A-7-6)
  6. DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE  
 NMC NATURAL MOISTURE CONTENT (%)  
 LL LIQUID LIMIT (%)  
 PI PLASTICITY INDEX (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- APPROXIMATE AUGER BORING LOCATION
  - APPROXIMATE SPT BORING LOCATION
  - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
  - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
  - GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
  - CENTERLINE CONSTRUCTION WILDLIFE CROSSING
  - CENTERLINE CONSTRUCTION OF 1-4
  - BORING TERMINATED DUE TO CAVE-IN FROM GROUNDWATER INTRUSION

BOR # PBA-200-2  
 STA. 27+22  
 REF. Q CONST.  
 OFF. 112' LT.  
 ELEV. 134.7  
 DATE 12/14/2022

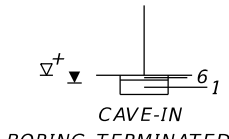
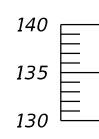
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 STA. 27+56  
 REF. Q CONST.  
 OFF. 75' RT.  
 ELEV. 136.1  
 DATE 12/14/2022

BOR # PBA-FPC1B-1  
 STA. 27+72  
 REF. Q CONST.  
 OFF. 49' LT.  
 ELEV. 135.3  
 DATE 12/14/2022

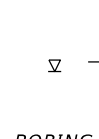
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 STA. 27+93  
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 OFF. 127' RT.  
 ELEV. 136.1  
 DATE 12/14/2022

BOR # PBA-FPC1B-2  
 STA. 28+21  
 REF. Q CONST.  
 OFF. 57' LT.  
 ELEV. 134.8  
 DATE 12/14/2022

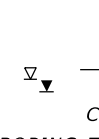
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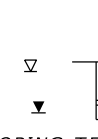
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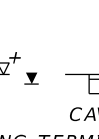
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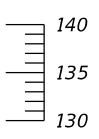
BORING TERMINATED AT ELEVATION 132.3 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 130.1 FT (NAVD 88)



BORING TERMINATED AT ELEVATION 132.8 FT (NAVD 88)



ELEVATION IN FEET (NAVD 88)

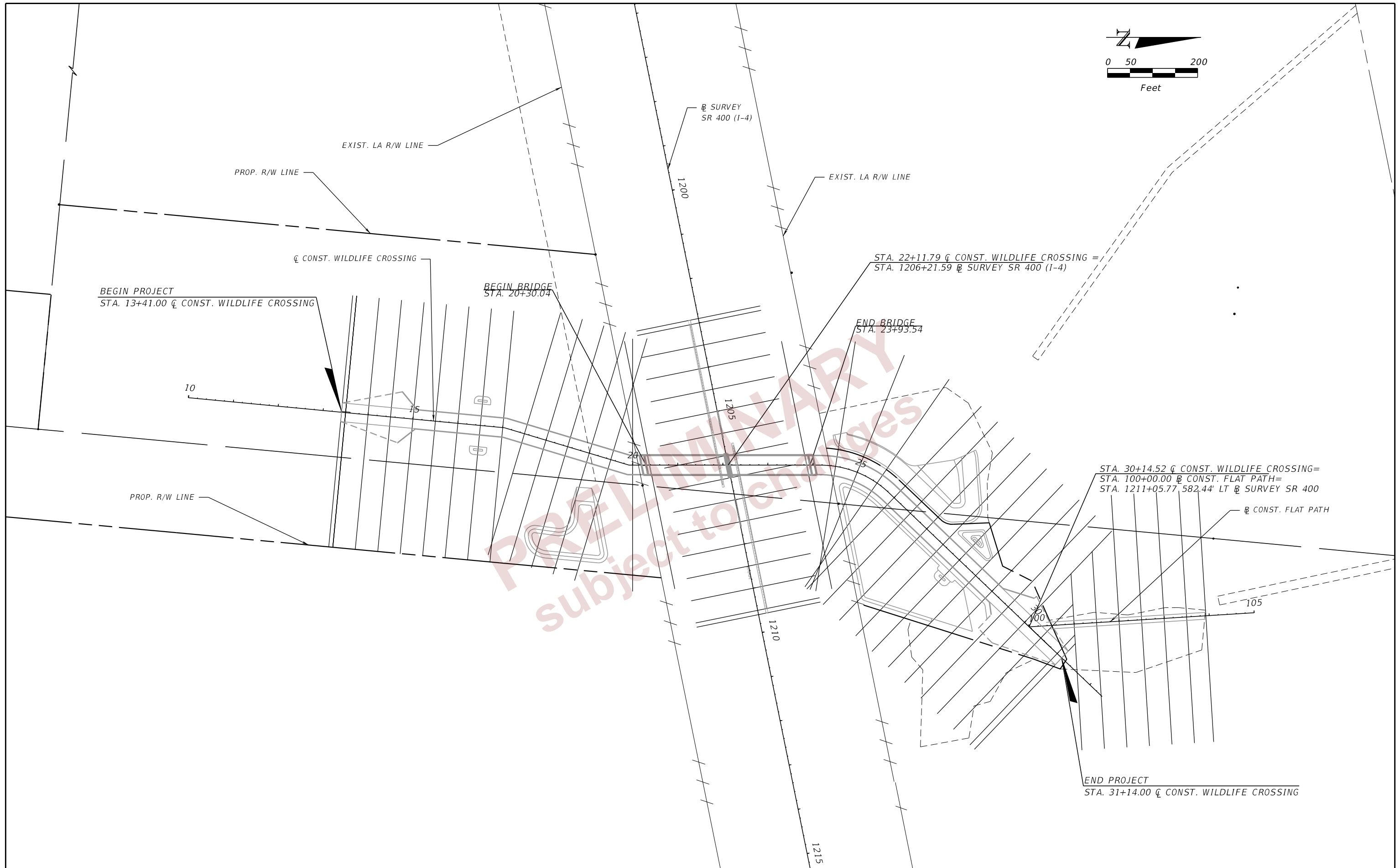
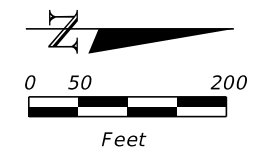
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS-RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
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SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
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HARD	GREATER THAN 30	GREATER THAN 24

FPC-1A, FPC-1B, SMF 200

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	LAWRENCE P. MOORE, P.E. LICENSE NUMBER: 47673 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 33	POLK	201214-8-52-01	<b>POND SOIL SURVEY (3)</b>			
										<b>32</b>

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	33

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STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION  
MATERIALS AND RESEARCH

DATE OF SURVEY: SEPTEMBER 2015 - JUNE 2022  
SURVEY MADE BY: TIERRA, INC.  
SUBMITTED BY: LAWRENCE P. MOORE, P.E.

DISTRICT: ONE  
ROAD NO.: SR 400  
COUNTY: POLK

FINANCIAL PROJECT ID : 201214-8-52-01  
PROJECT NAME: WILDLIFE OVERPASS

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 20+30.04    SURVEY ENDS STA. : 31+14.00    REFERENCE: CENTERLINE OF CONSTRUCTION OF WILDLIFE CROSSING

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	1	1	1	21	34	100	91-97	57-77	23-47	6-14	--	--	--	A-3/A-2-4	LIGHT GRAY TO DARK BROWN FINE SAND TO SAND WITH SILT	10	6,400-27,000	15-30	<5-6	5.4-7.9
2	2	2	3	14-28	27	100	93-97	64-80	33-57	15-35	--	--	--	A-2-4	LIGHT GRAY TO DARK BROWN SILTY SAND	9	3,300-28,000	15	<5-34	4.2-7.9
3	9	3-4	38	11-34	45	100	76-97	45-82	31-61	14-35	33	15-38	3-24	A-2-4/A-2-6	LIGHT GRAY TO BROWN TO RED SILTY SAND TO CLAYEY SAND	--	--	--	--	--
4	--	--	55	14-55	55	100	95-97	75-86	53-72	36-90	55	24-48	9-32	A-4/A-6/A-7-6	LIGHT GRAY TO BROWN TO RED CLAYEY SAND TO SANDY CLAY	--	--	--	--	--
5	--	--	12	15-66	12	100	97	83	68	41-93	12	50-156	30-118	A-7-5/A-7-6	LIGHT GRAY TO PALE BROWN TO PALE BLUE-GREEN TO DARK GREEN CLAYEY SAND TO CLAY	--	--	--	--	--
6	77	5-76	77	27-457	77	100	59-96	41-78	23-57	7-70	--	--	--	A-8	DARK BROWN TO BLACK SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL	--	--	--	--	--
7	--	--	--	--	1	--	--	--	--	15	--	--	--	A-2-4	LIGHT GRAY TO DARK BROWN FINE SAND TO SILTY SAND WITH CLAY NODULES, OCCASIONALLY WITH LIMESTONE (FILL)	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	WEATHERED LIMESTONE	--	--	--	--	--

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3/A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATA 2 AND 7 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATA 3 AND 4 (A-2-4/A-2-6/A-4/A-6/A-7-6) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
4. THE MATERIAL FROM STRATUM 5 (A-7-5/A-7-6) IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.

▼ - WATER TABLE ENCOUNTERED

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

5. THE MATERIAL FROM STRATUM 6 (A-8) IS SILTY SAND WITH ORGANICS TO HIGHLY ORGANIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS ARE SHOWN ON THE ORGANIC MATERIAL DELINEATION SHEETS AND ON THE ROADWAY CROSS SECTIONS.
6. THE MATERIAL FROM STRATUM NUMBER 8 IS A NATURAL LIMESTONE FORMATION. SPECIAL TOOLS AND EQUIPMENT WILL BE REQUIRED TO EXCAVATE AND/OR DEWATER THIS MATERIAL.
7. THE PARAMETERS PRESENTED ON THIS ROADWAY SOIL SURVEY INCLUDE DATA FROM FINANCIAL PROJECT ID'S 430185-3-52-01 AND 201214-8-52-01.
8. THE "--" INDICATES AN UNMEASURED PARAMETER

9/27/2022 1:20:12 PM bgarcia J:\6511\2014 Files\6511-14-074 SR 33 at I-4\20121485\01\ORD\201214-8-52-01\Geotechnical\SSUVRD01.dgn

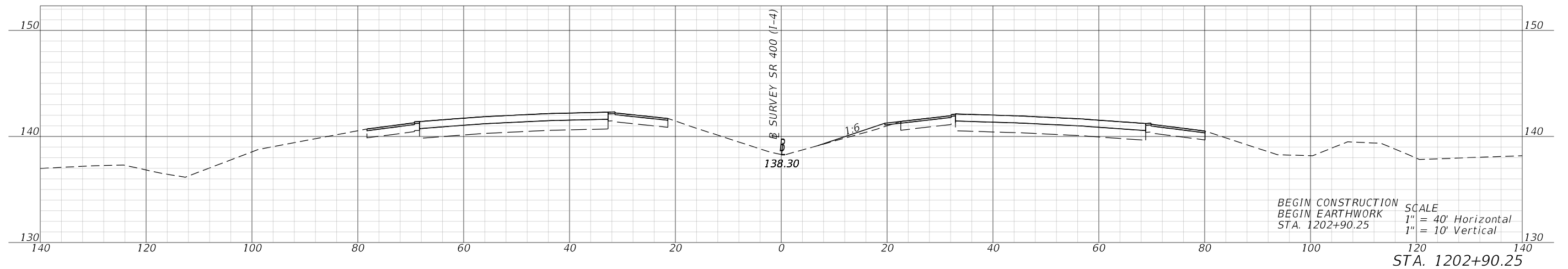
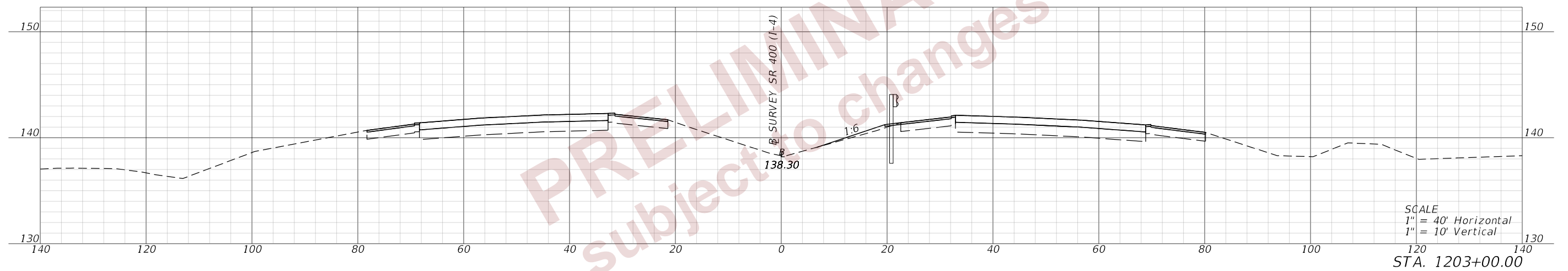
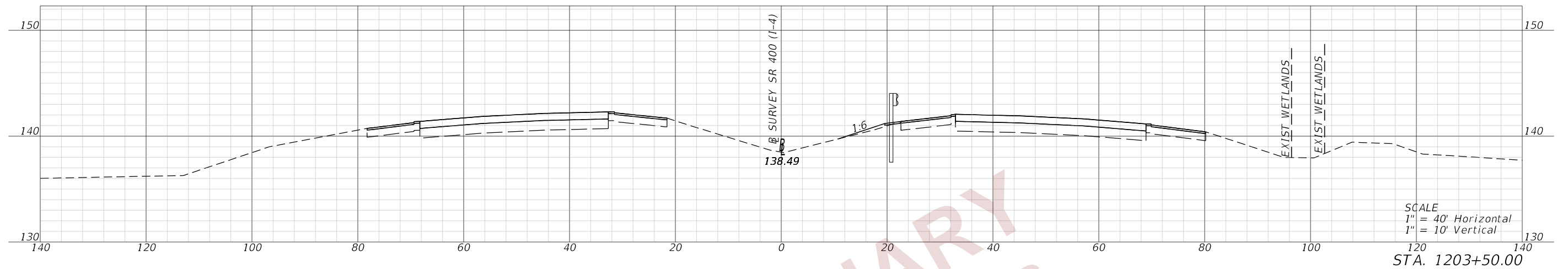
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		34
					SR 33	POLK	201214-8-52-01		



NOTE:

SEE STRUCTURE PLANS FOR INFORMATION ON SOILS AND SOIL BORINGS



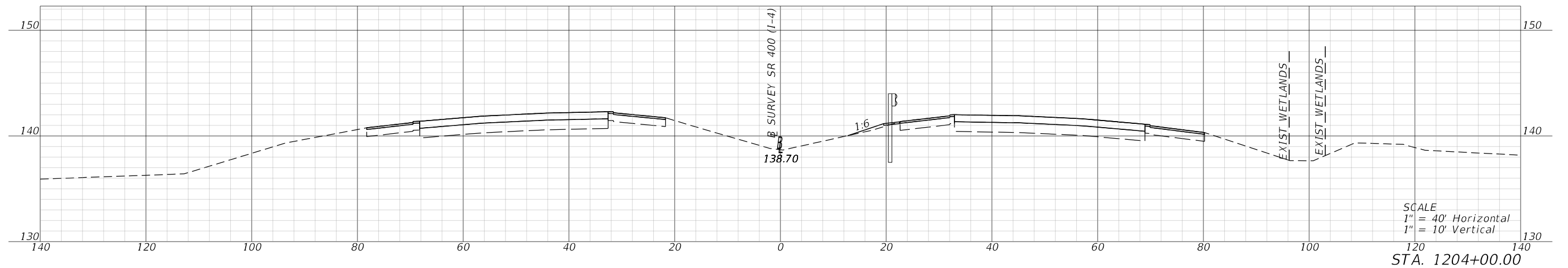
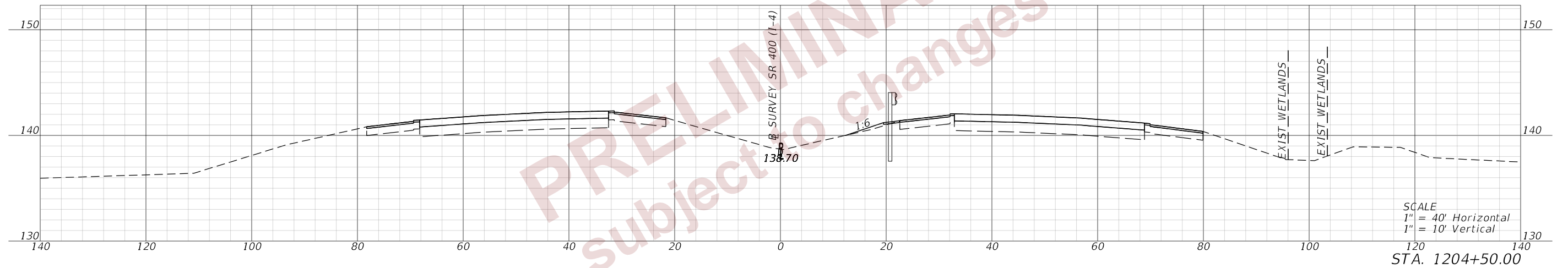
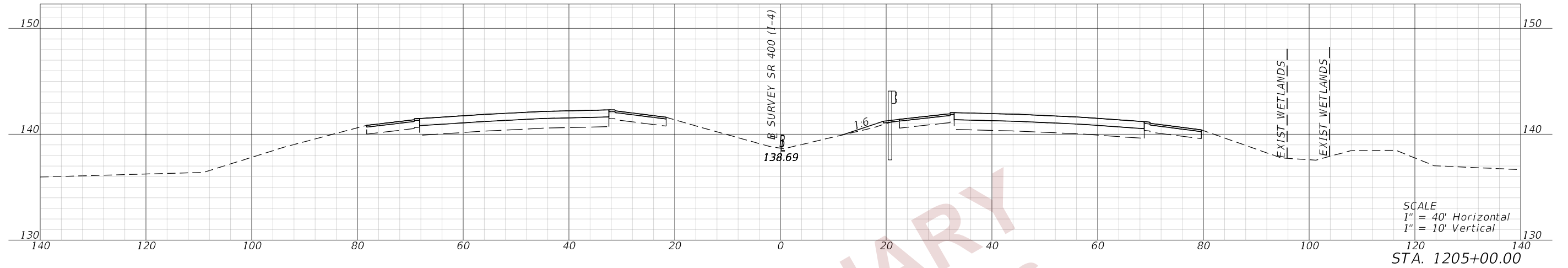
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (01)</b> <b>SR 400</b>	SHEET NO. <b>35</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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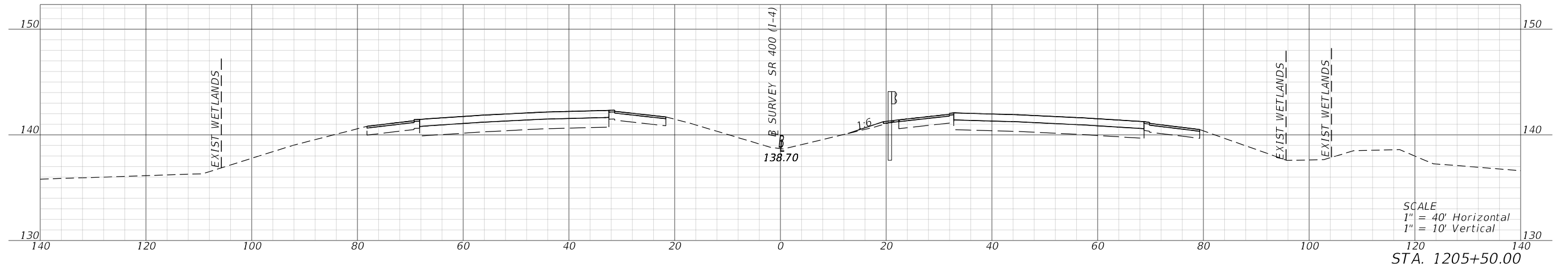
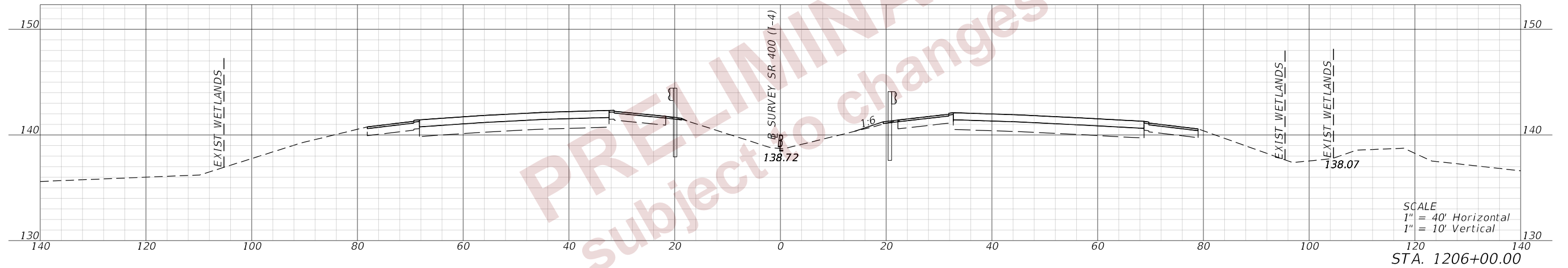
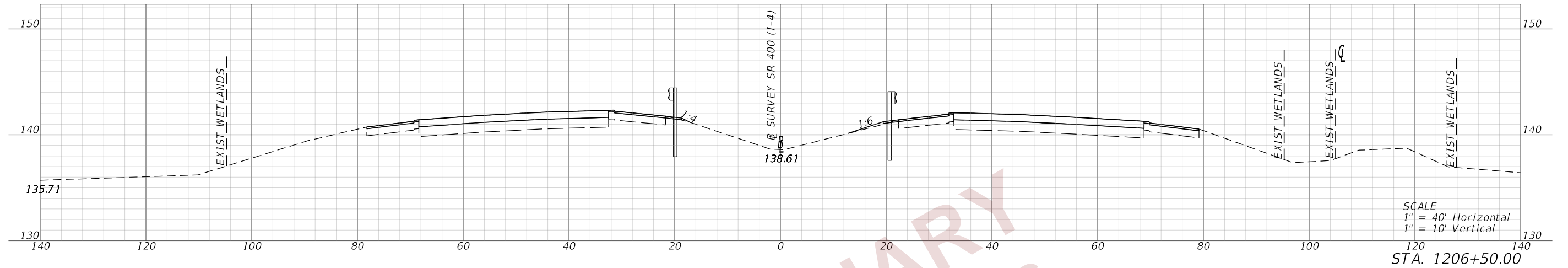


PRELIMINARY  
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (02)</b> <b>SR 400</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		36
								SR 400		

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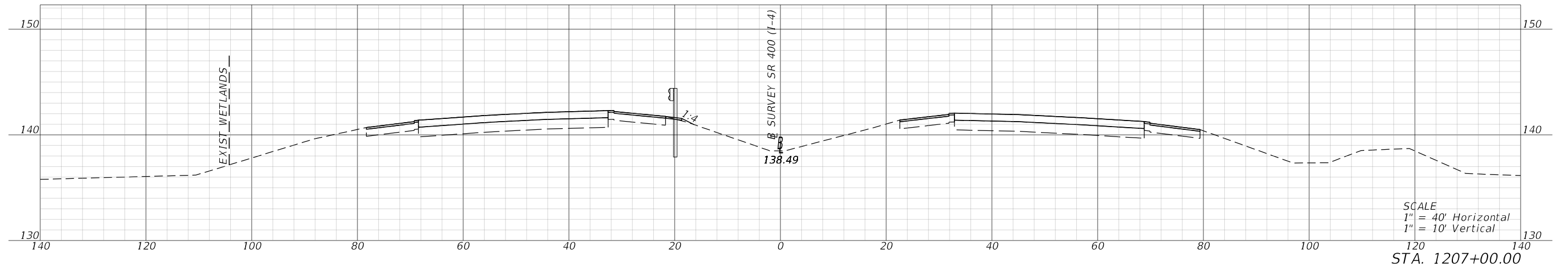
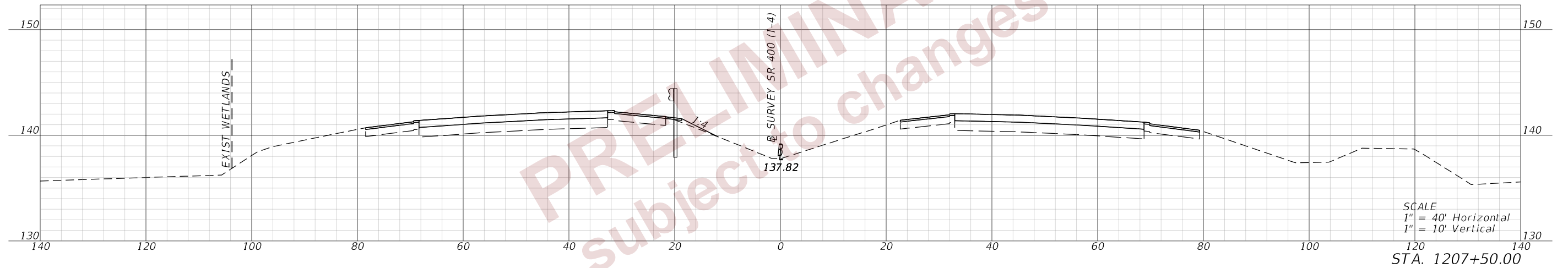
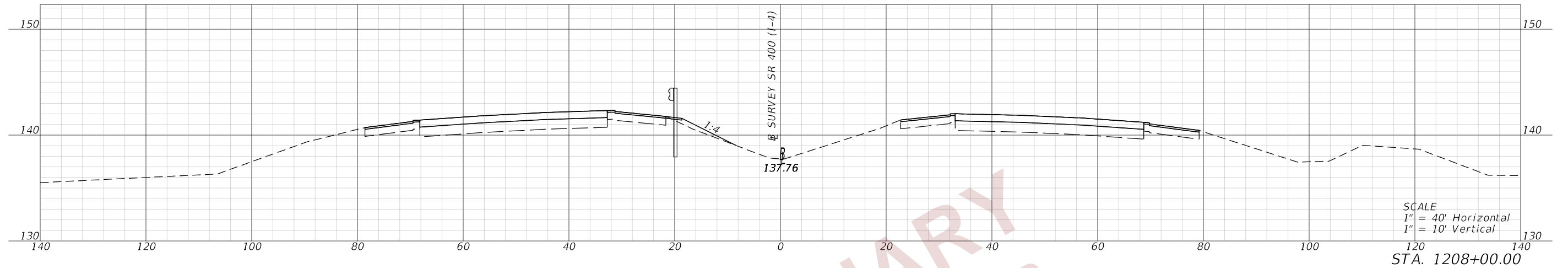
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (03)</b> <b>SR 400</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	<b>CROSS SECTIONS (03)</b> <b>SR 400</b>				37
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK					201214-8-52-01

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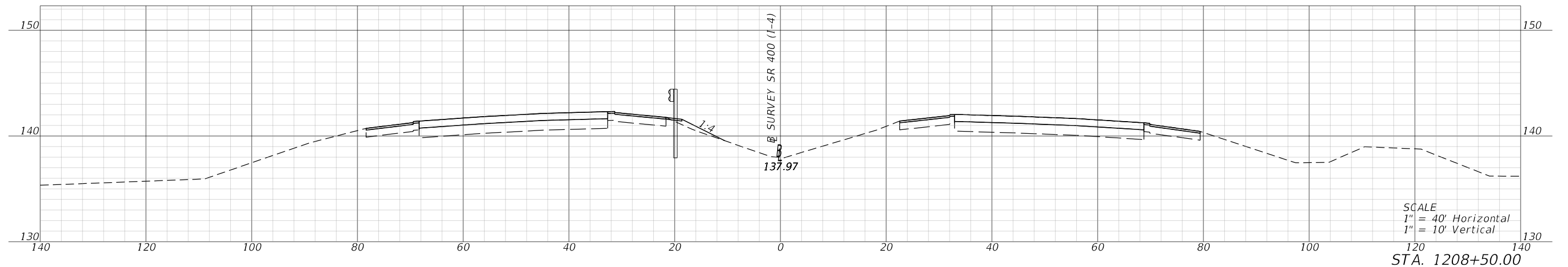
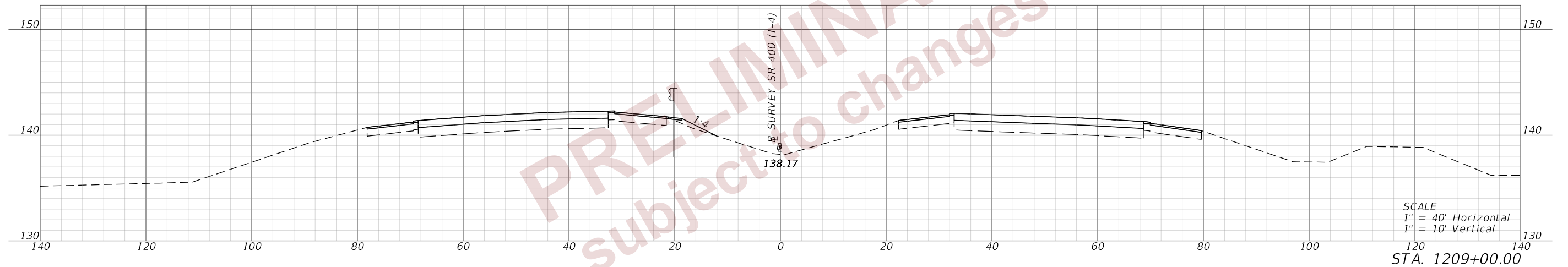
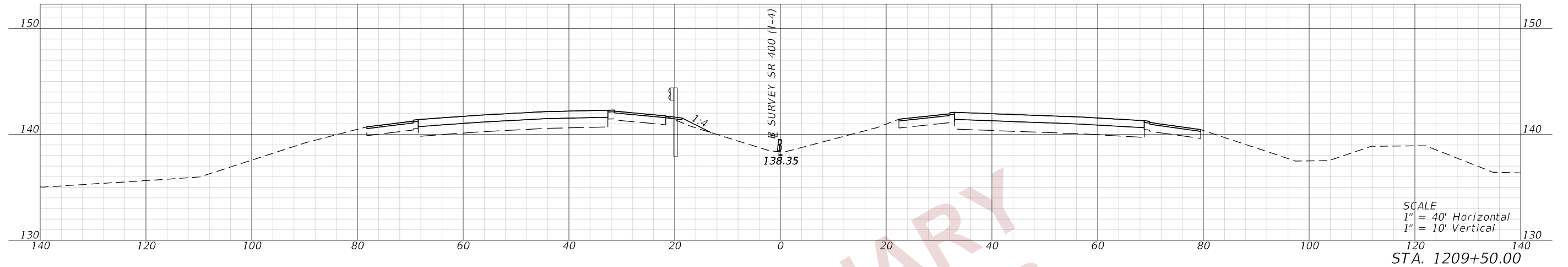


PRELIMINARY  
 Subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (04)</b> <b>SR 400</b>	SHEET NO. <b>38</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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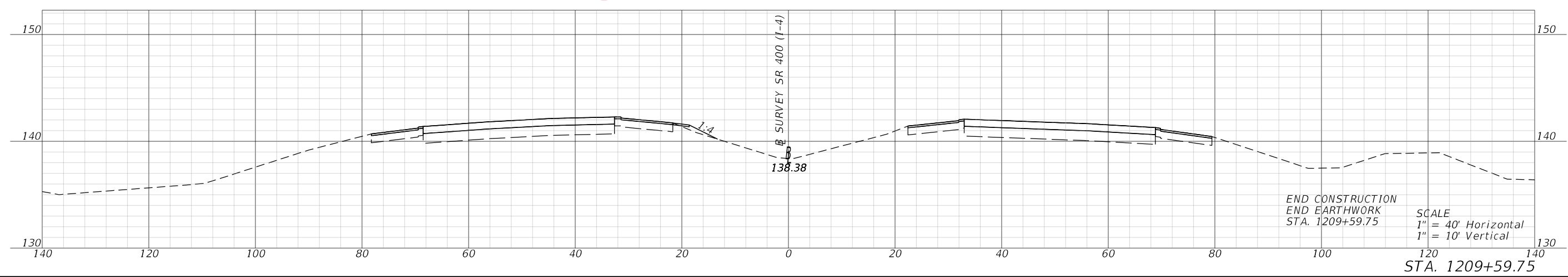


PRELIMINARY  
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (05)</b> <b>SR 400</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400	POLK		201214-8-52-01

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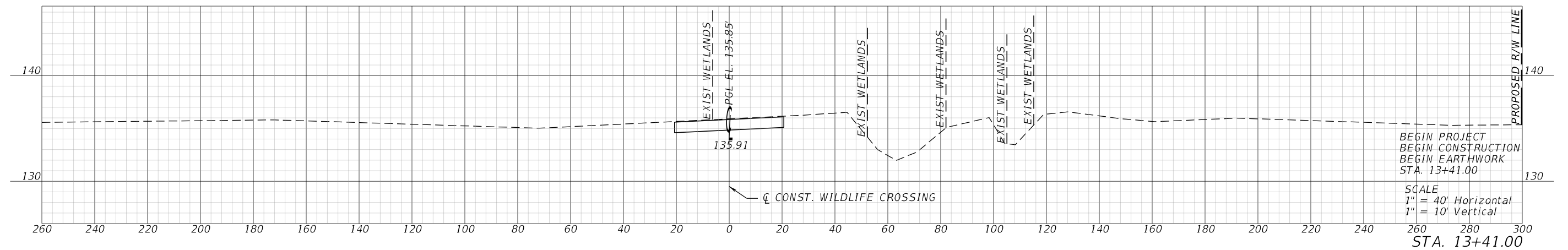
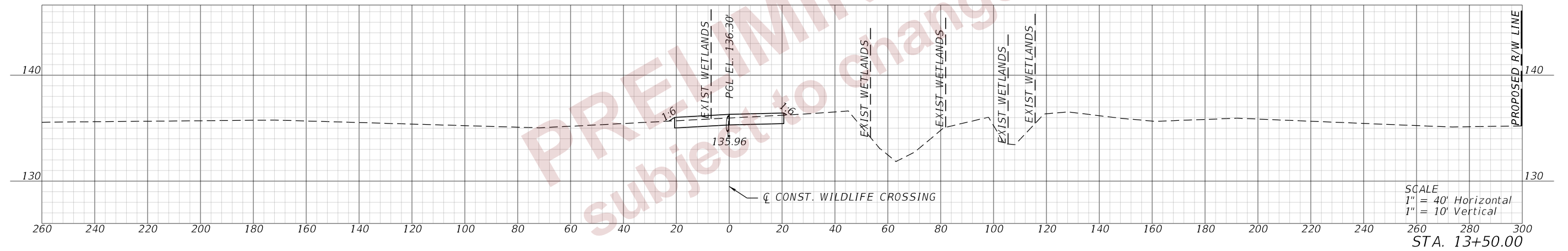
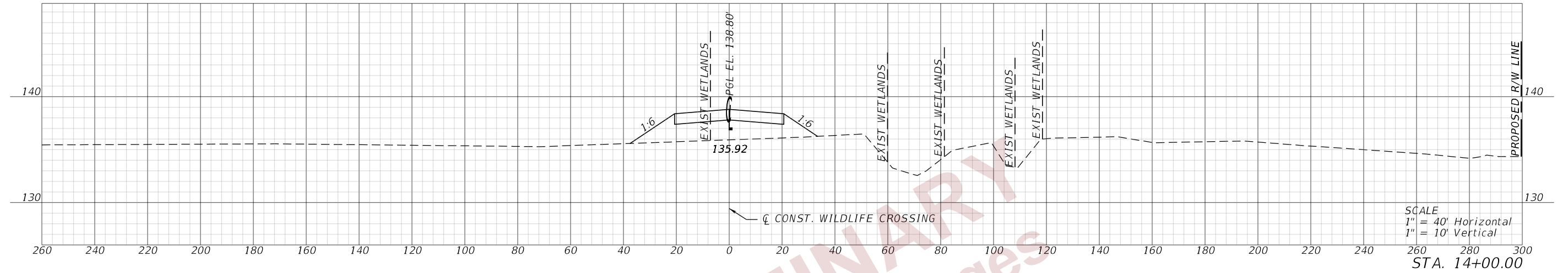
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (06)</b> <b>SR 400</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	40			
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400      POLK      201214-8-52-01			



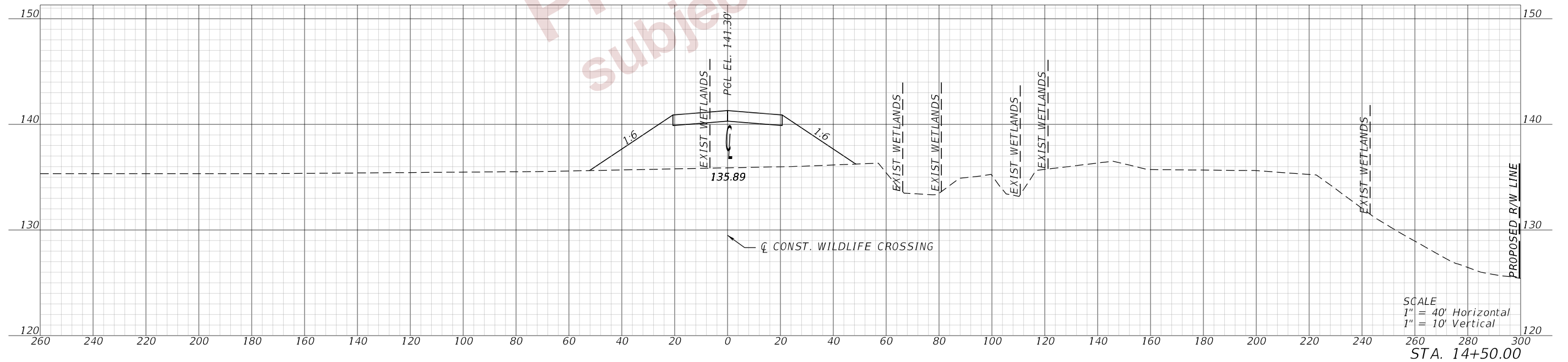
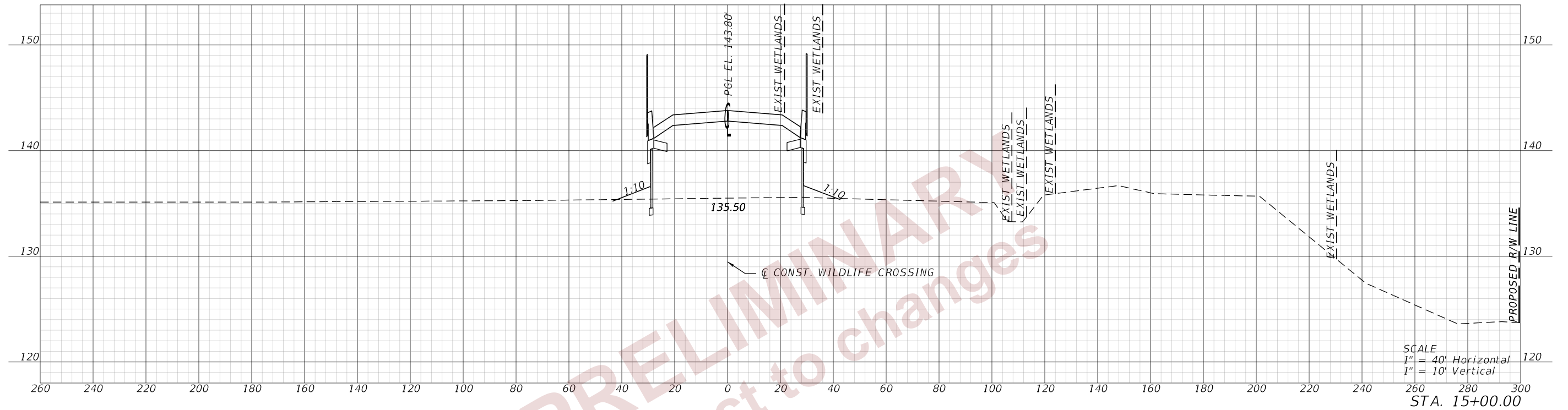
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (07) WILDLIFE CROSSING	SHEET NO. 41
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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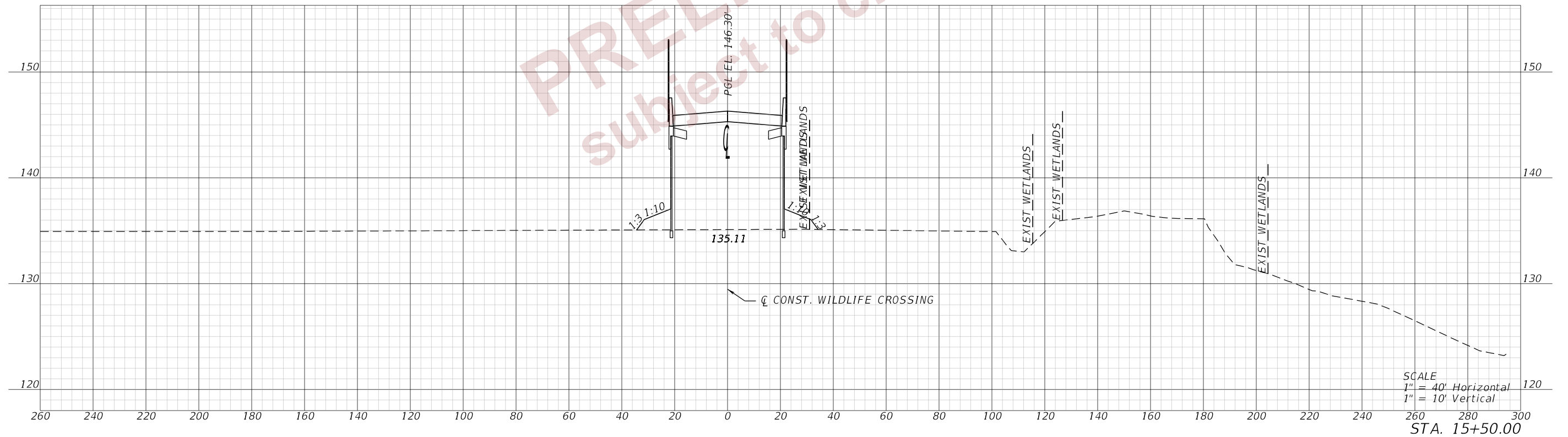
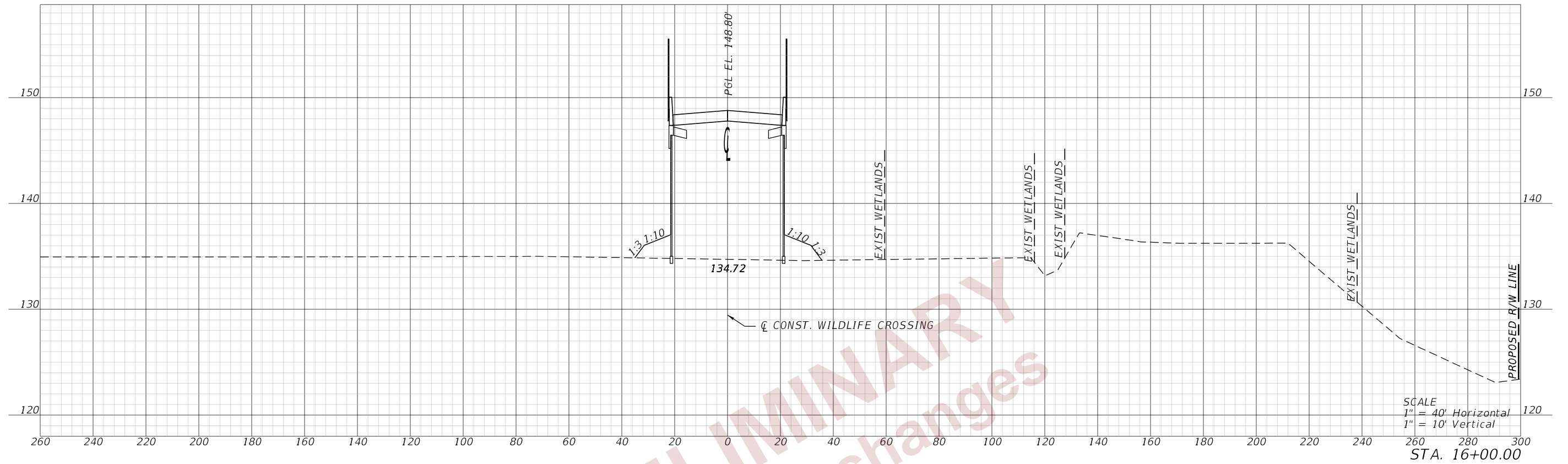
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (08) WILDLIFE CROSSING	SHEET NO. 42
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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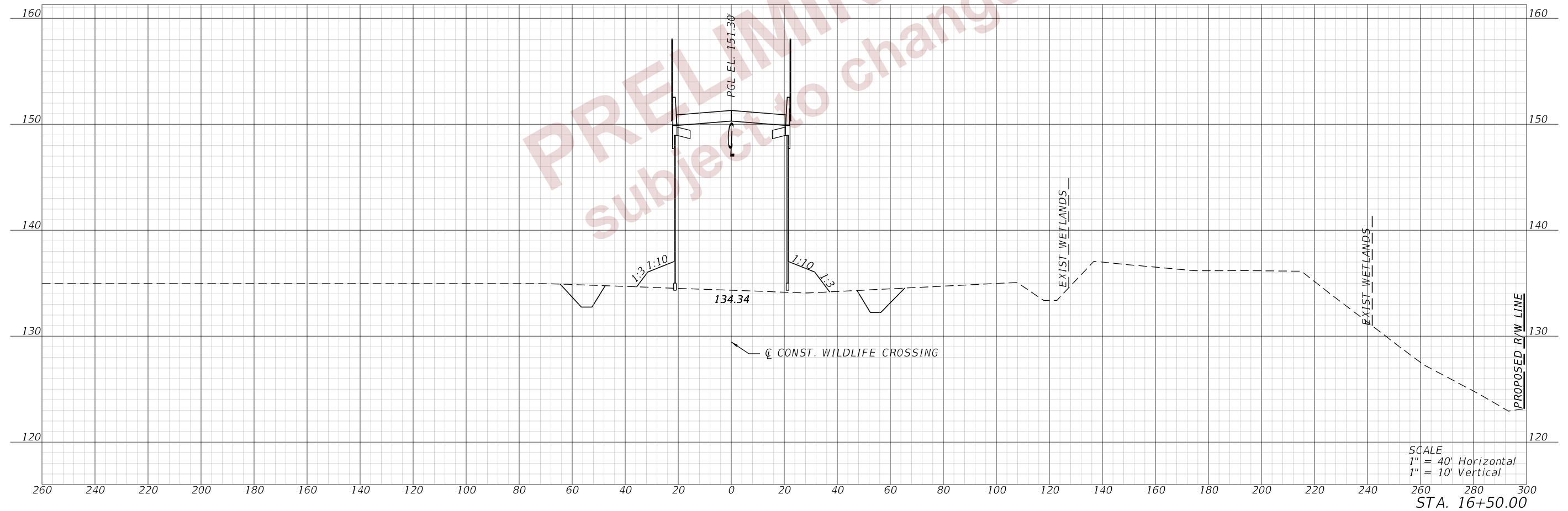


REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (09) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		43
											SR 400

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 subject to changes

SCALE  
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STA. 16+50.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (10) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		44
								SR 400		

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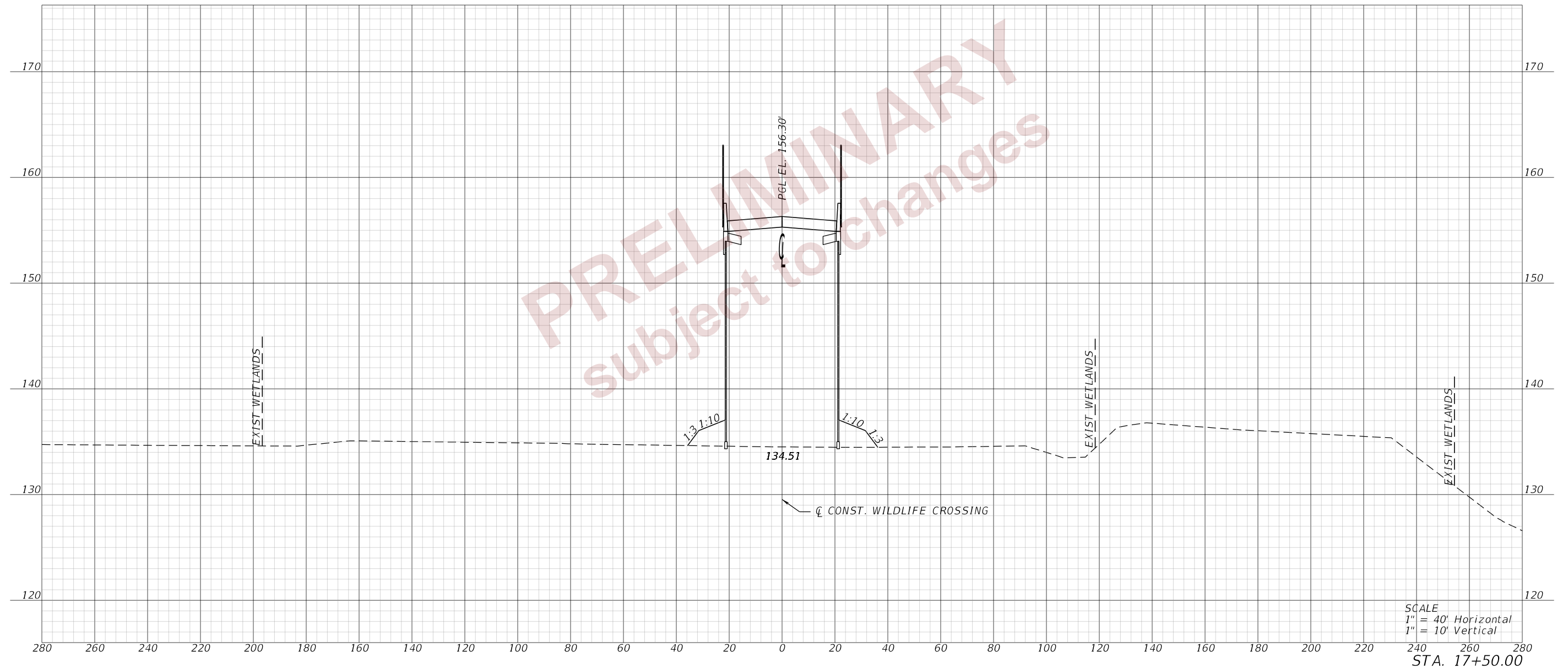
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STA. 17+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (11) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		45
						SR 400	POLK	201214-8-52-01		

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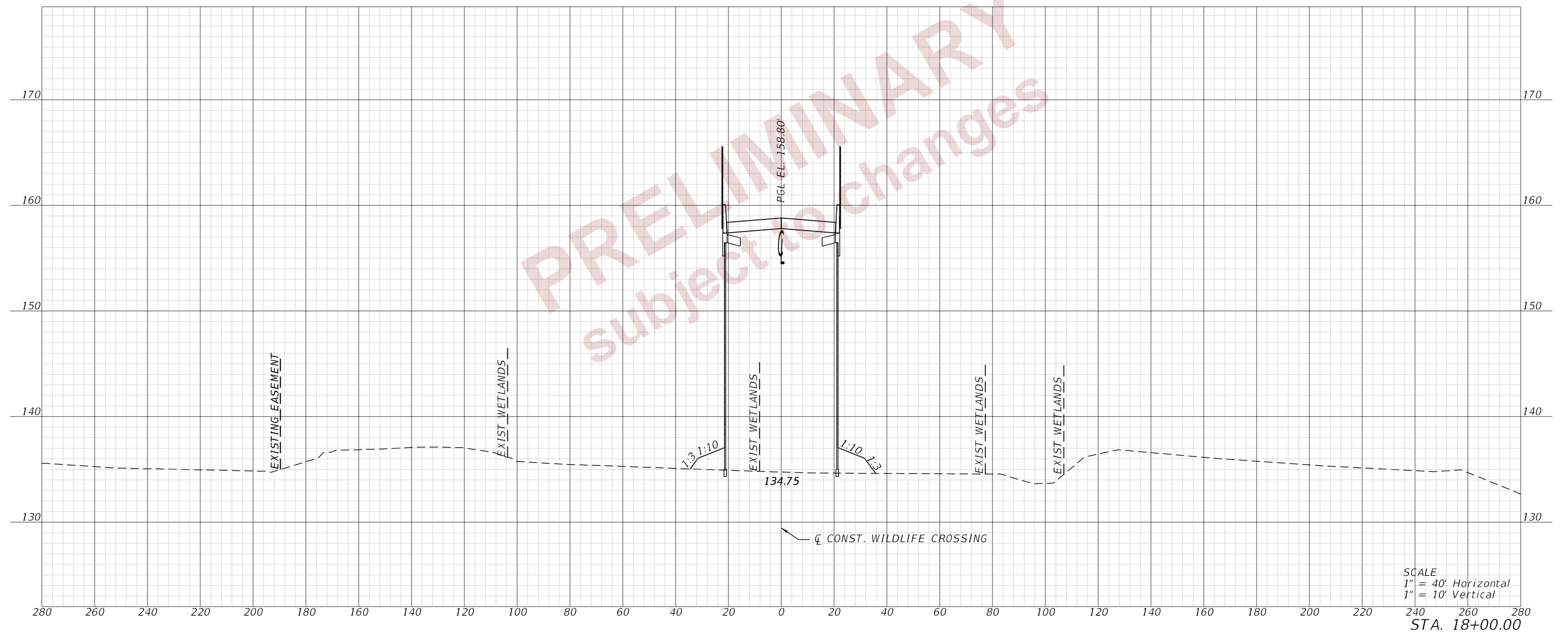
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (12) WILDLIFE CROSSING	SHEET NO.  46
DATE	DESCRIPTION	DATE	DESCRIPTION							
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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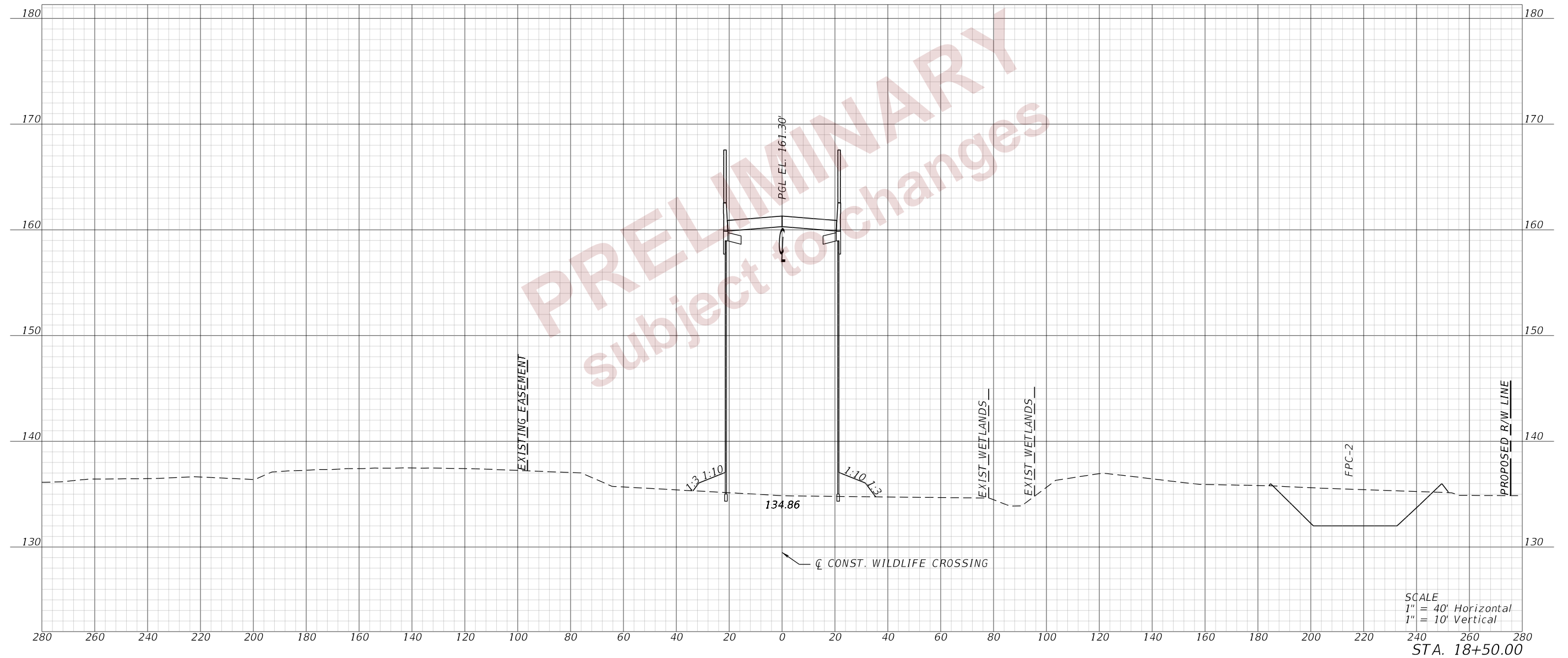
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STA. 18+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (13) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400	POLK		201214-8-52-01

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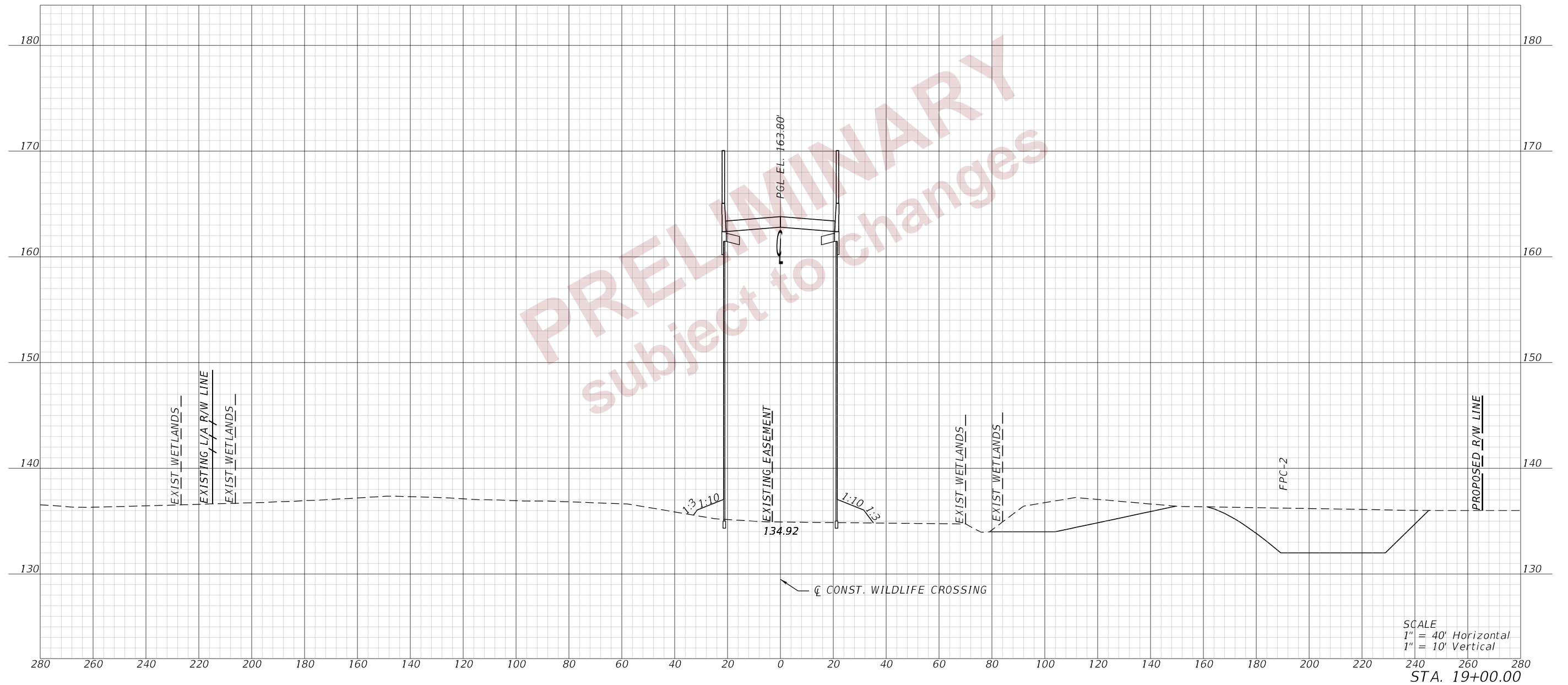


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (14) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		48
						SR 400	POLK	201214-8-52-01		

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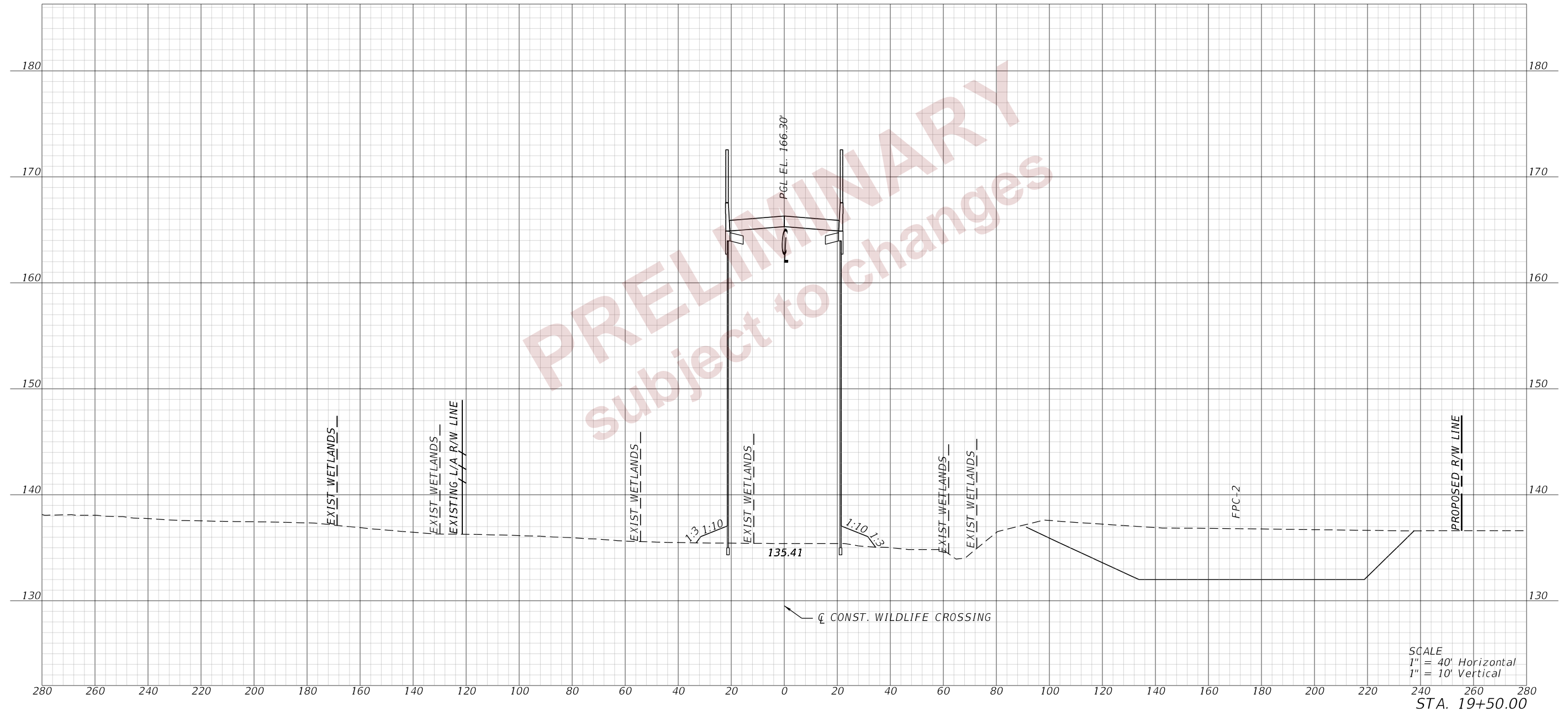


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (15) WILDLIFE CROSSING	SHEET NO. 49
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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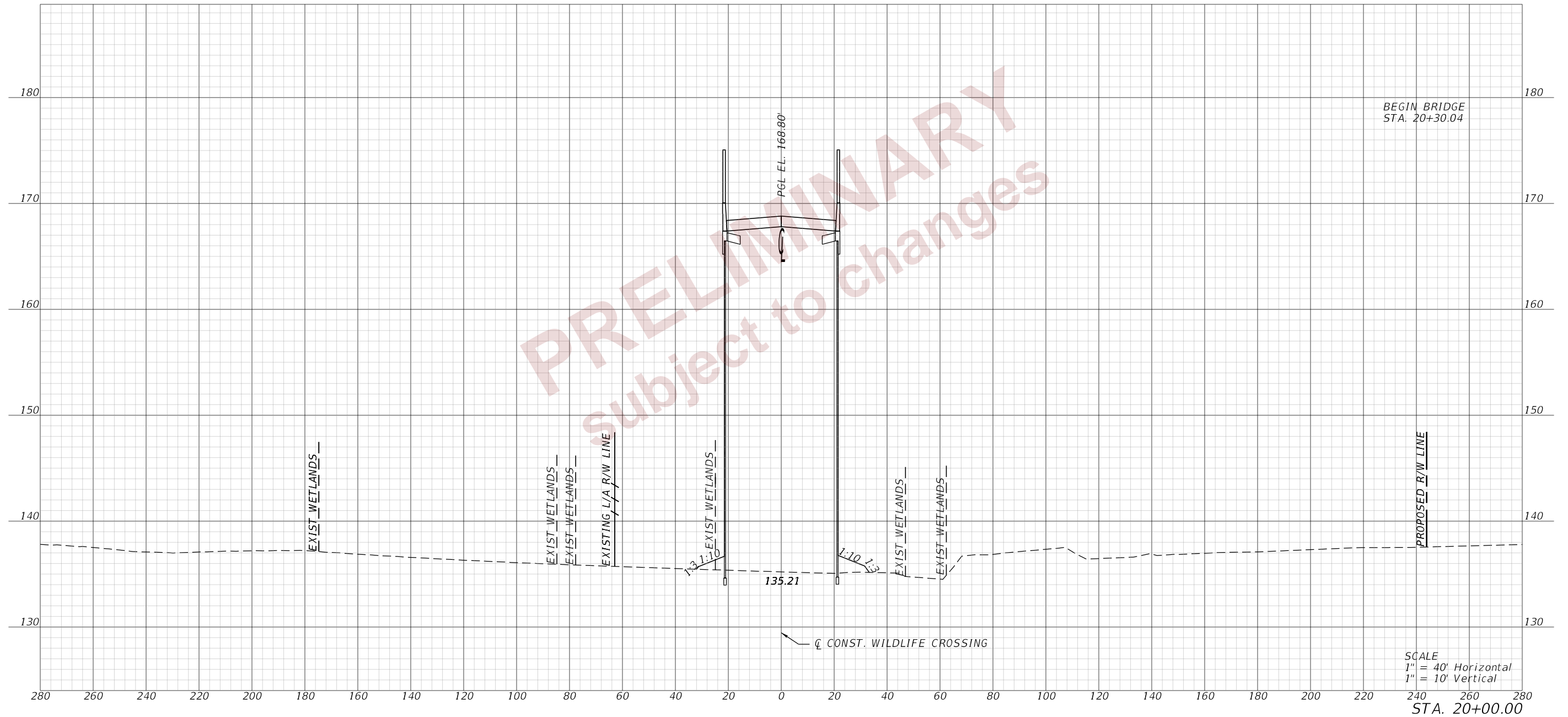
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (16) WILDLIFE CROSSING	SHEET NO. 50
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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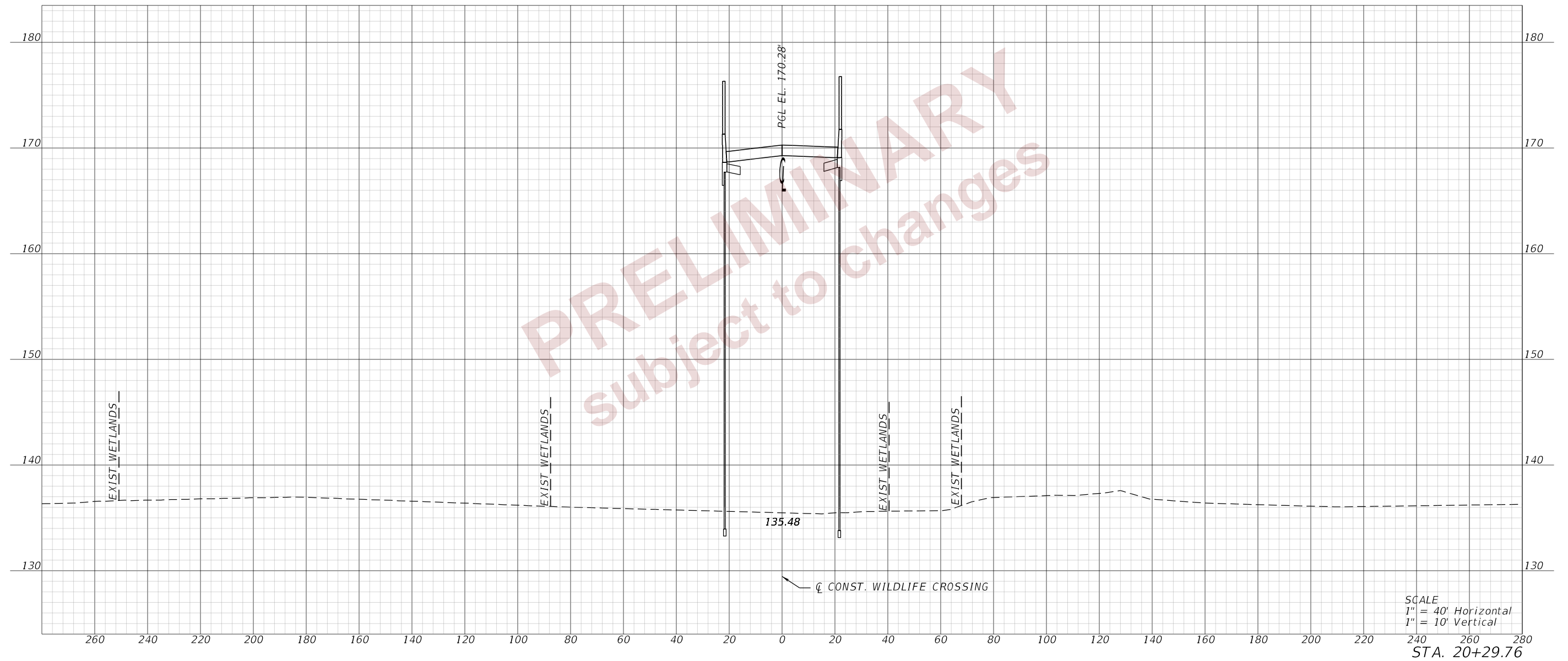
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STA. 20+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (17) WILDLIFE CROSSING	SHEET NO.  51
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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REVISIONS		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD  
 DEBANANDA PANIGRAHI, P.E.  
 LICENSE NUMBER 68318  
 H. W. LOCHNER  
 4300 W. CYPRESS STREET, SUITE 500  
 TAMPA, FLORIDA 33607

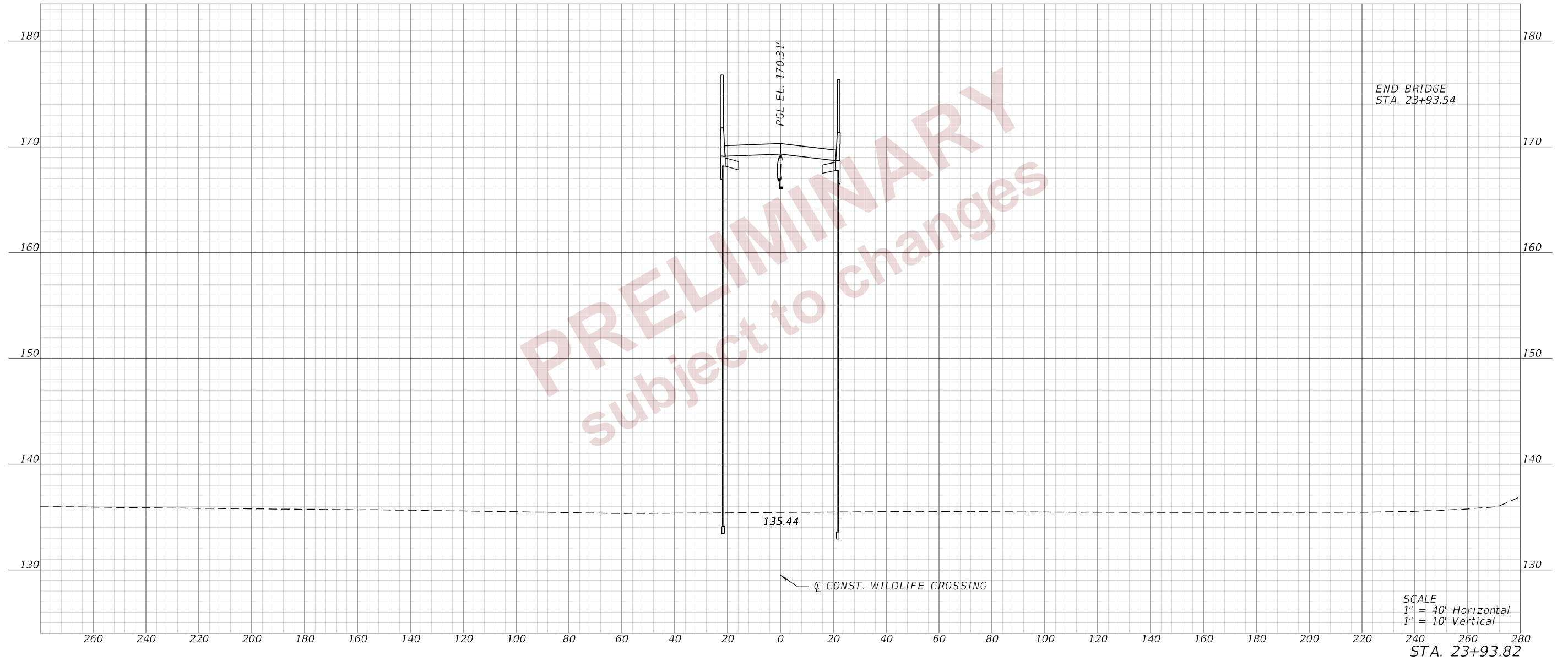
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	POLK	201214-8-52-01

**CROSS SECTIONS (18)  
 WILDLIFE CROSSING**

SHEET NO.  
**52**

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD  
 DEBANANDA PANIGRAHI, P.E.  
 LICENSE NUMBER 68318  
 H. W. LOCHNER  
 4300 W. CYPRESS STREET, SUITE 500  
 TAMPA, FLORIDA 33607

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	POLK	201214-8-52-01

**CROSS SECTIONS (19)  
WILDLIFE CROSSING**

SHEET NO.  
**53**

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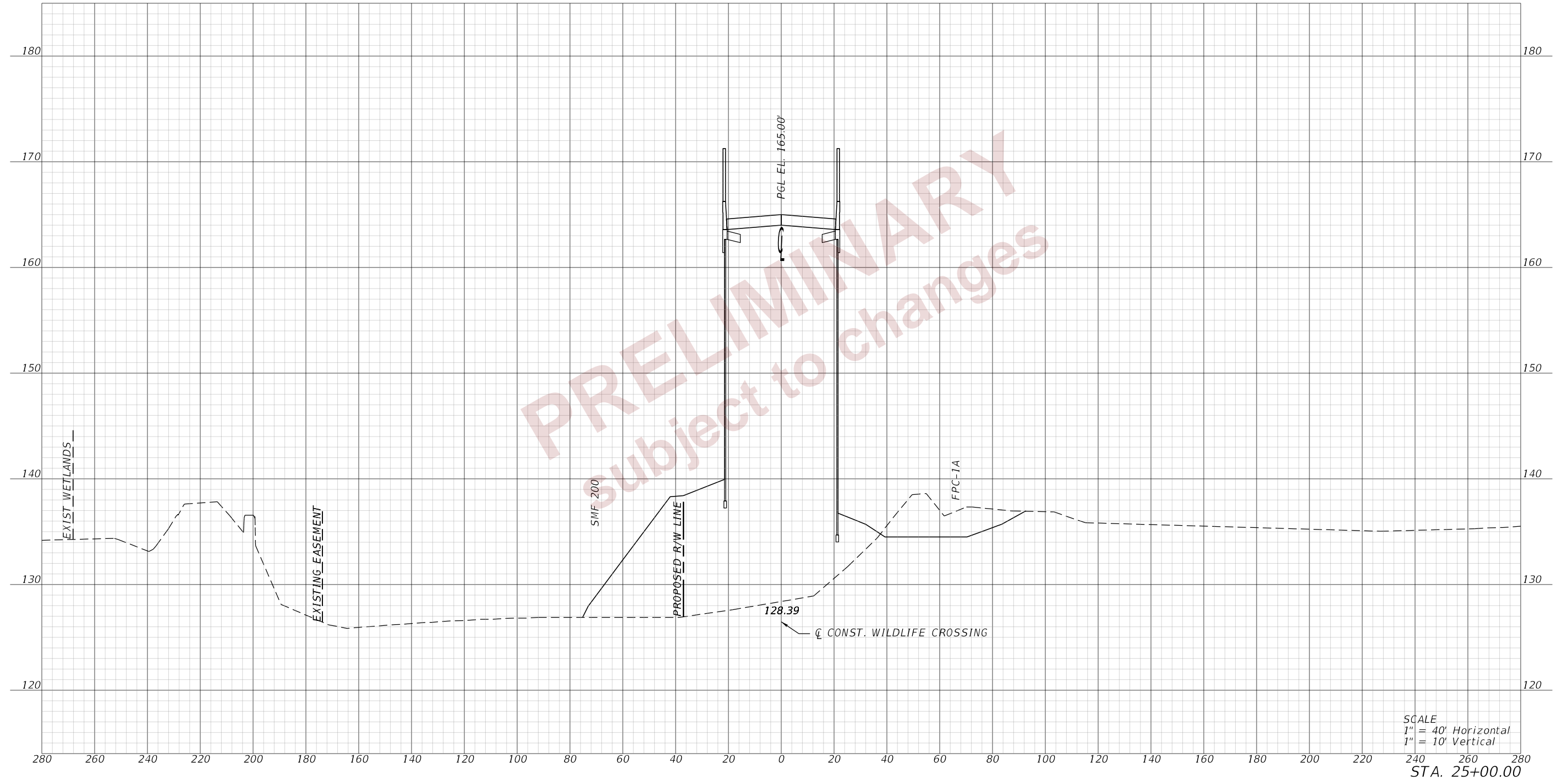
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DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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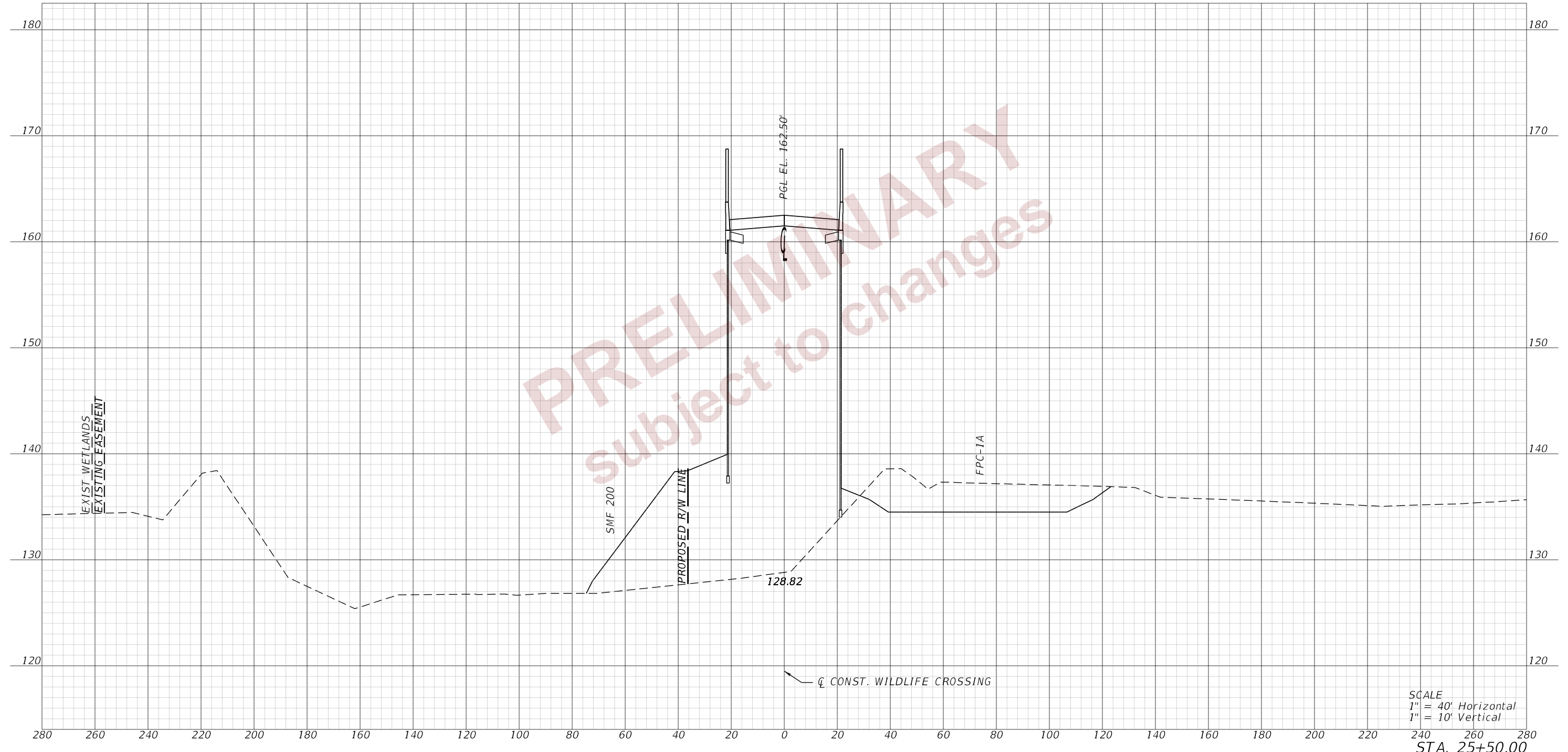


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (21) WILDLIFE CROSSING	SHEET NO.  55
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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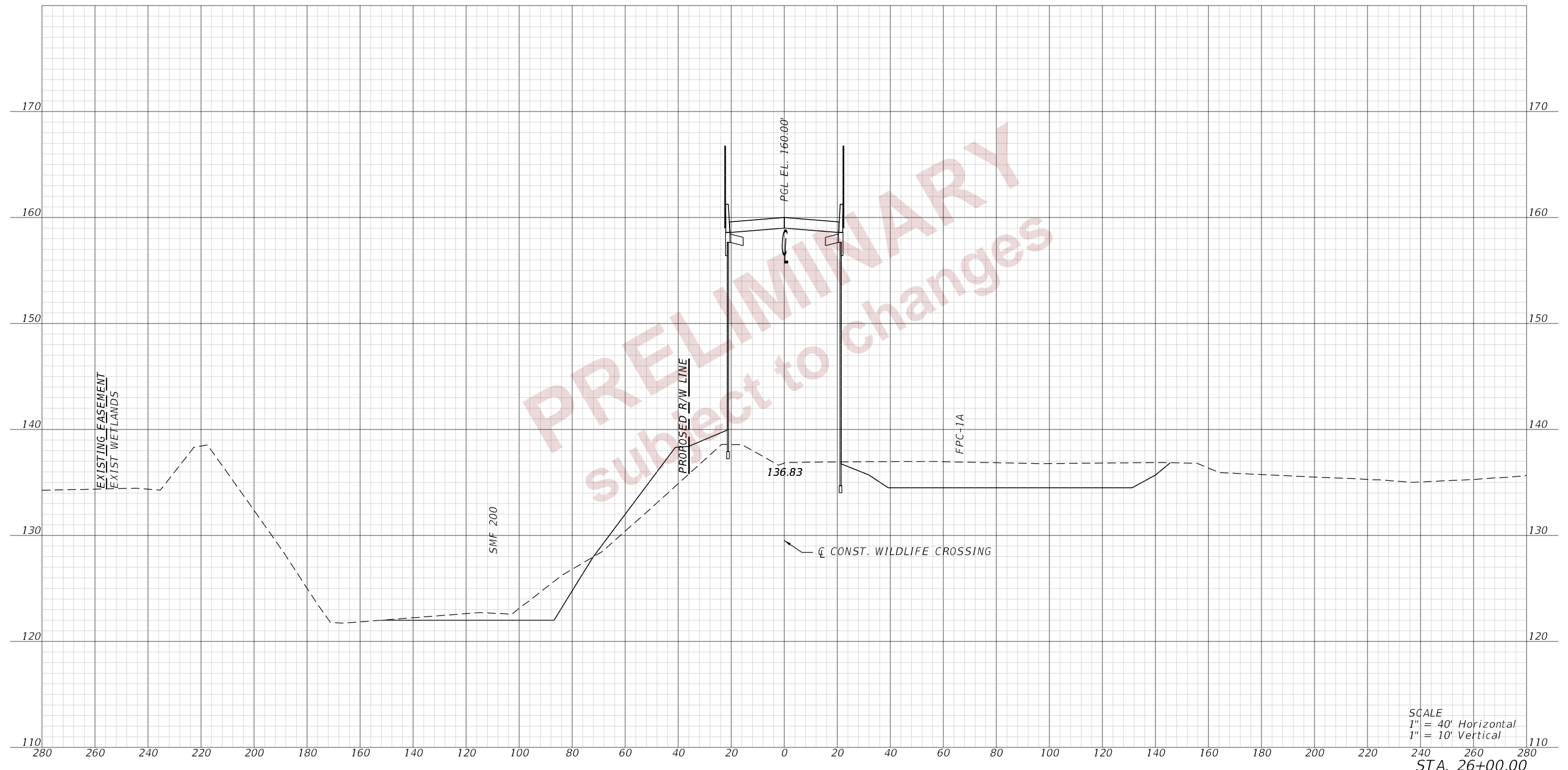
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STA. 25+50.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (22) WILDLIFE CROSSING	SHEET NO.  56
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 400	POLK	201214-8-52-01				

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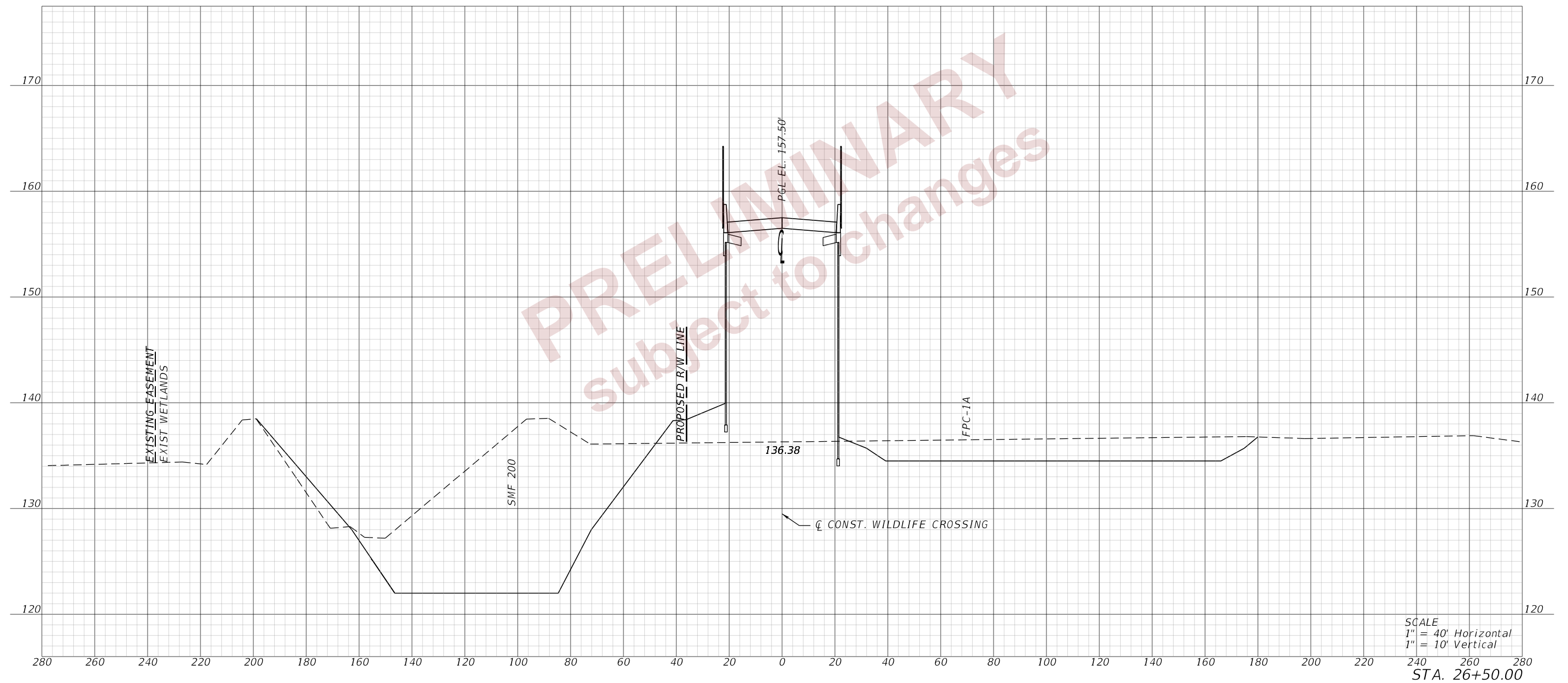


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (23) WILDLIFE CROSSING	SHEET NO. 57
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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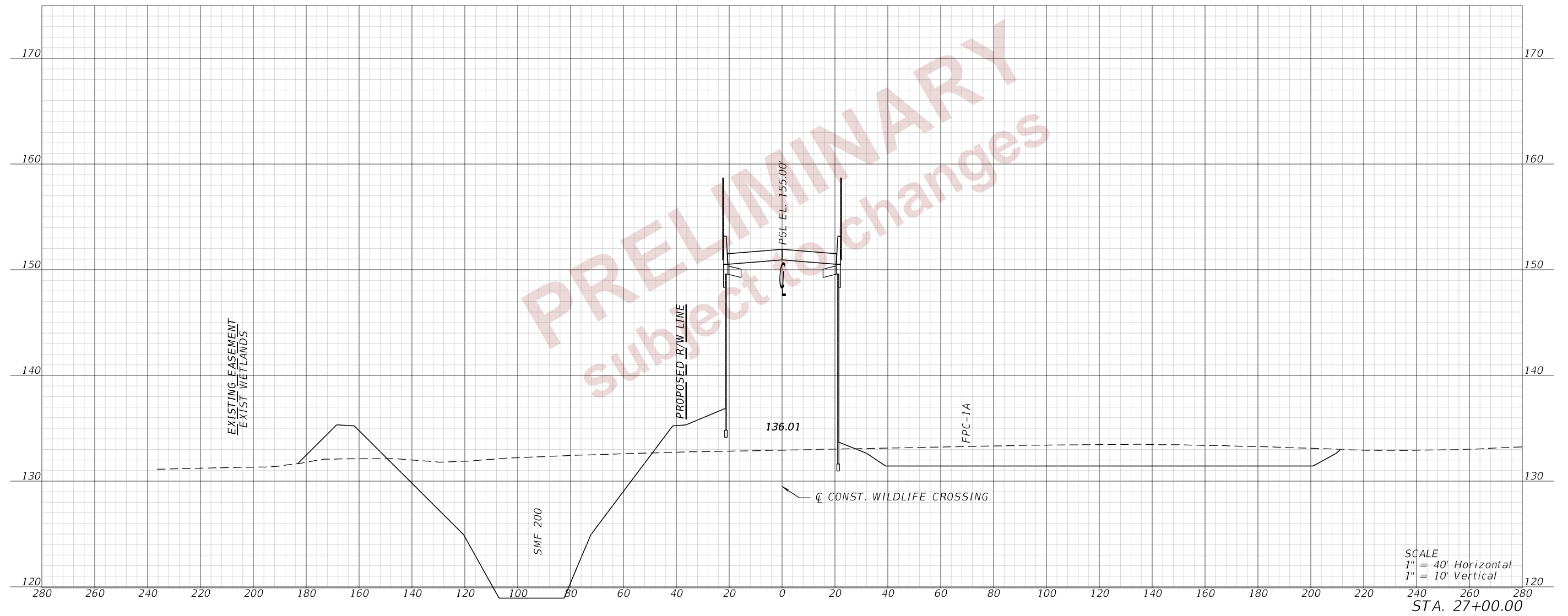
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (24) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		58
						SR 400	POLK	201214-8-52-01		

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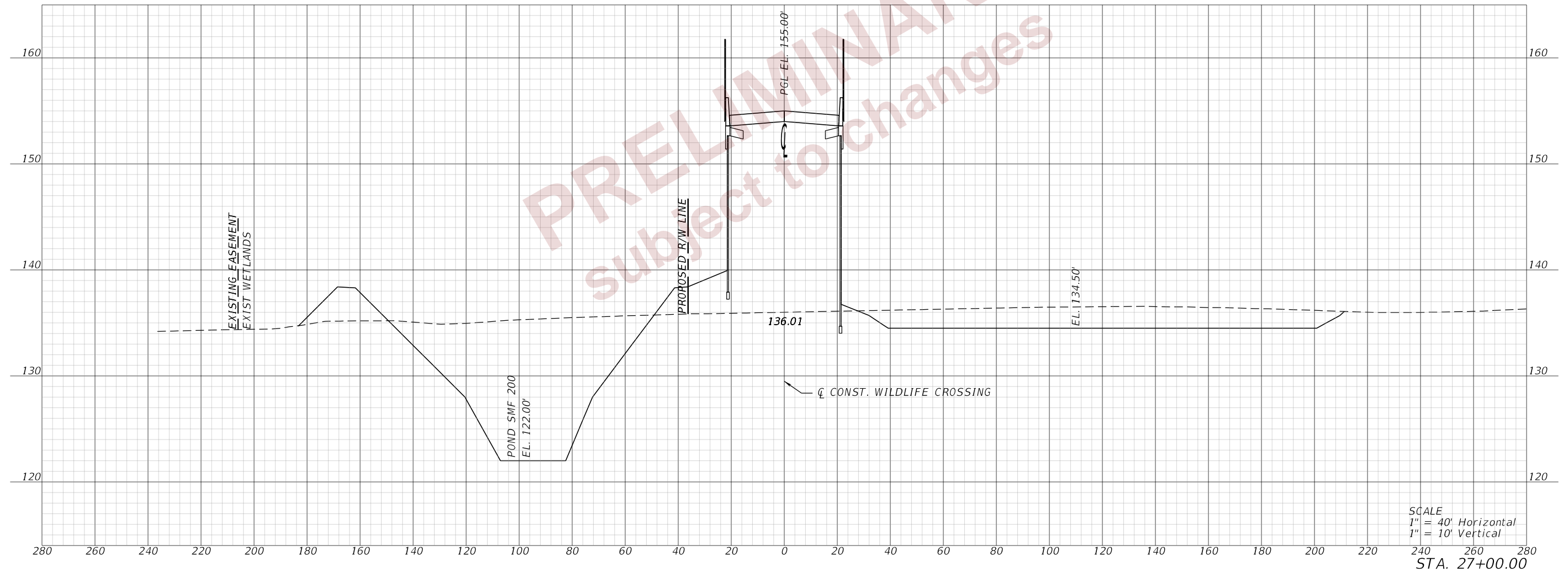


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 STA. 27+00.00

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (25) WILDLIFE CROSSING	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		59
							SR 400	POLK	201214-8-52-01		

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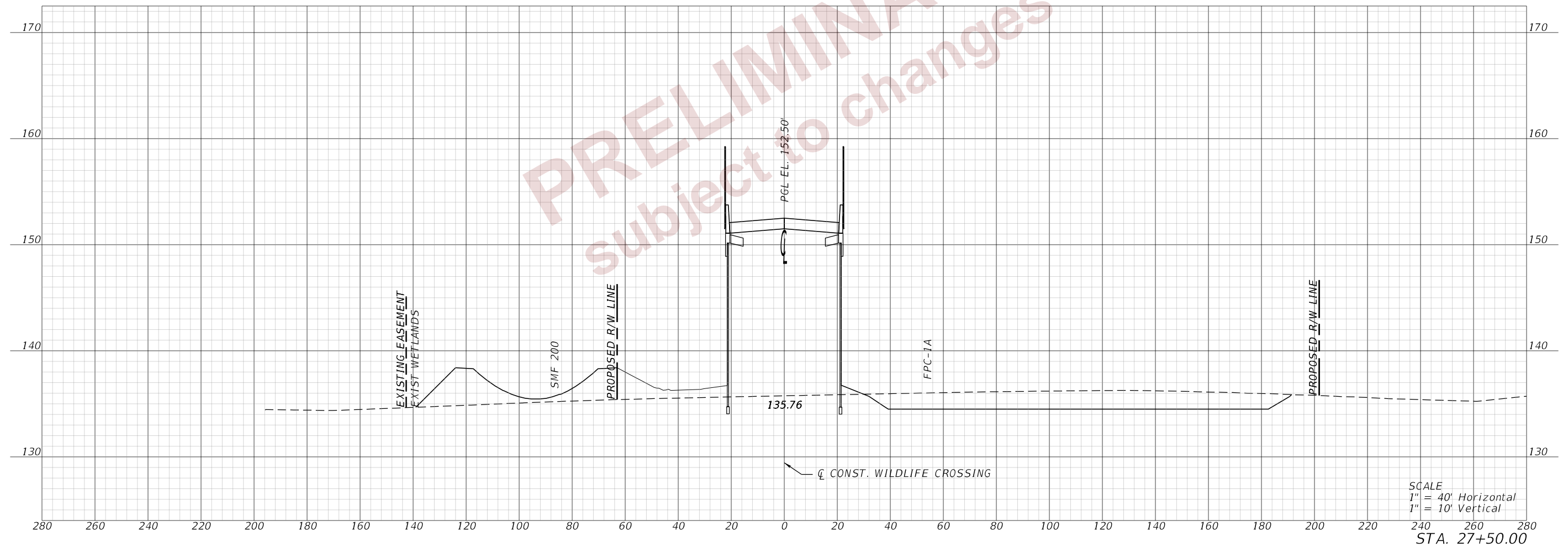
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STA. 27+00.00

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (25) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		60
								SR 400		

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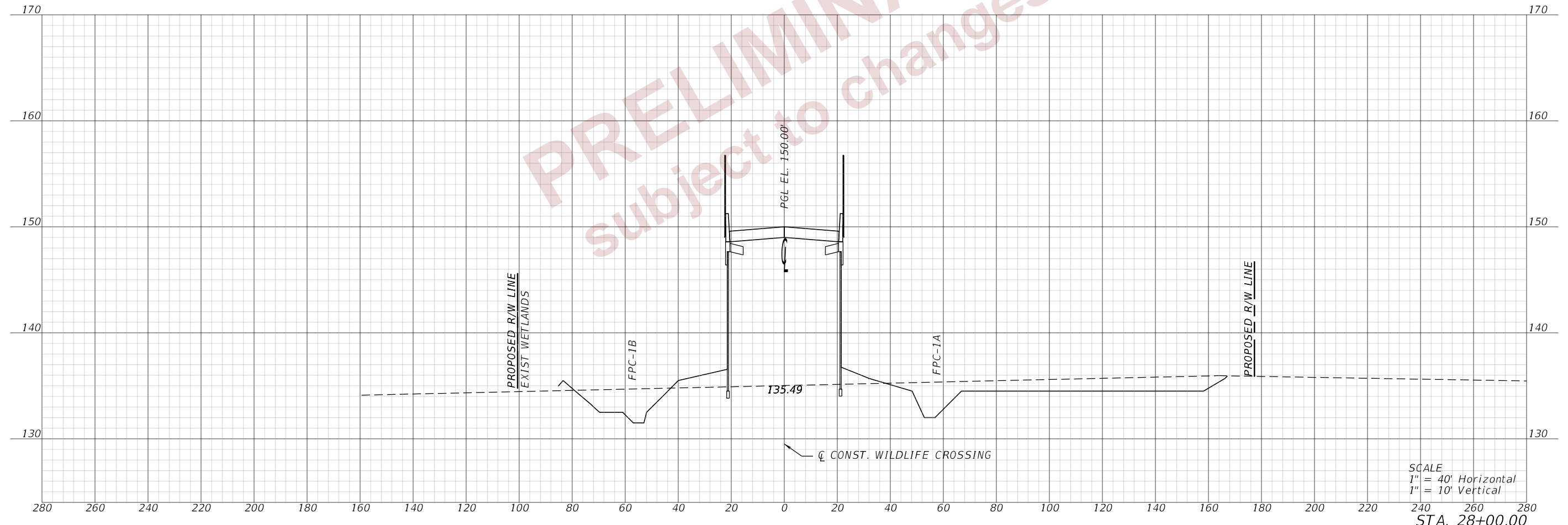
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (26) WILDLIFE CROSSING	SHEET NO.  61
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 400	POLK	201214-8-52-01		

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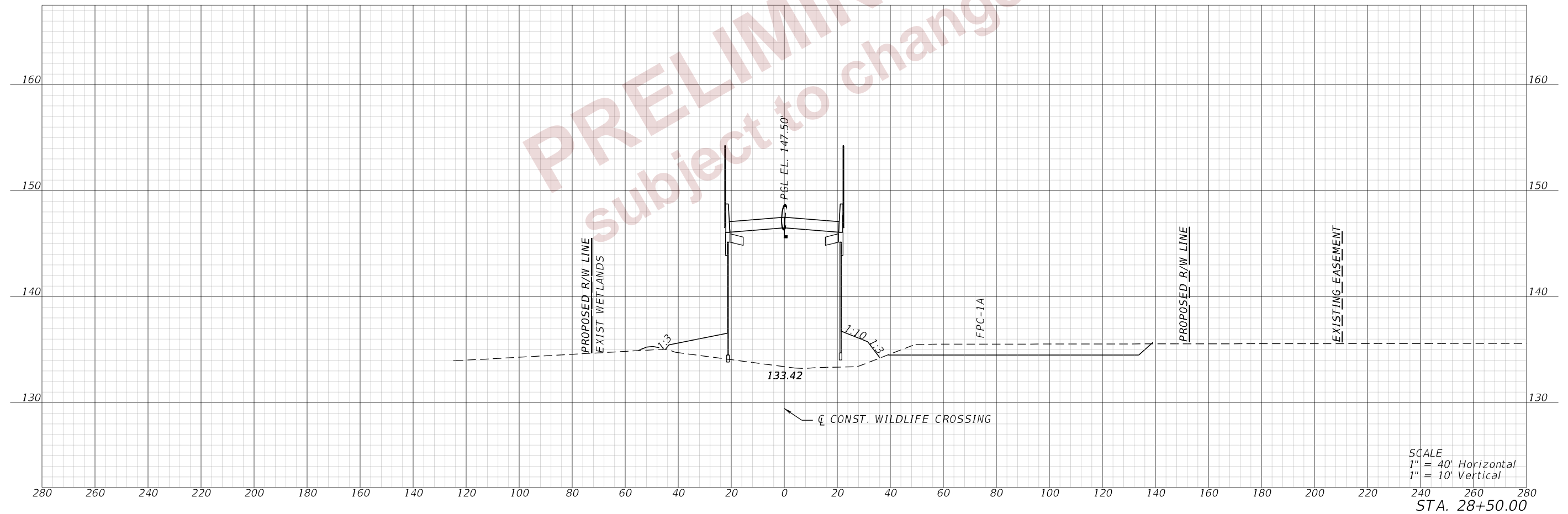
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (27)</b> <b>WILDLIFE CROSSING</b>	SHEET NO. <b>62</b>
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			SR 400	POLK	201214-8-52-01		

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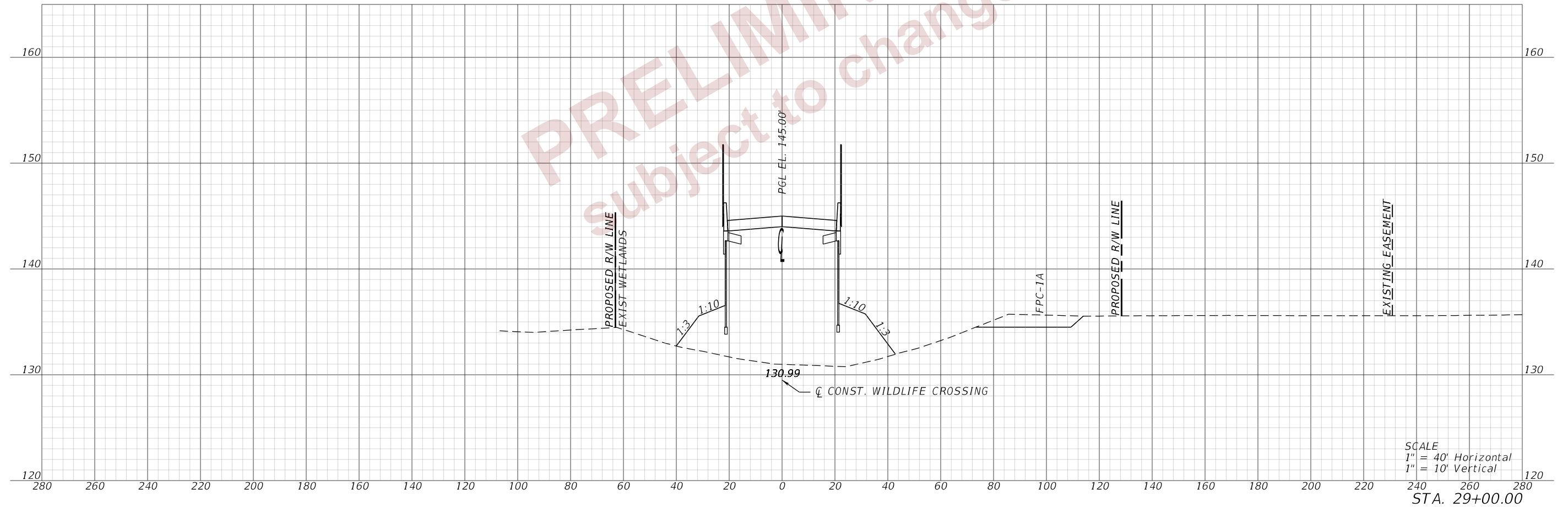
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STA. 28+50.00

PRELIMINARY  
Subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (28) WILDLIFE CROSSING</b>	SHEET NO. <b>63</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		

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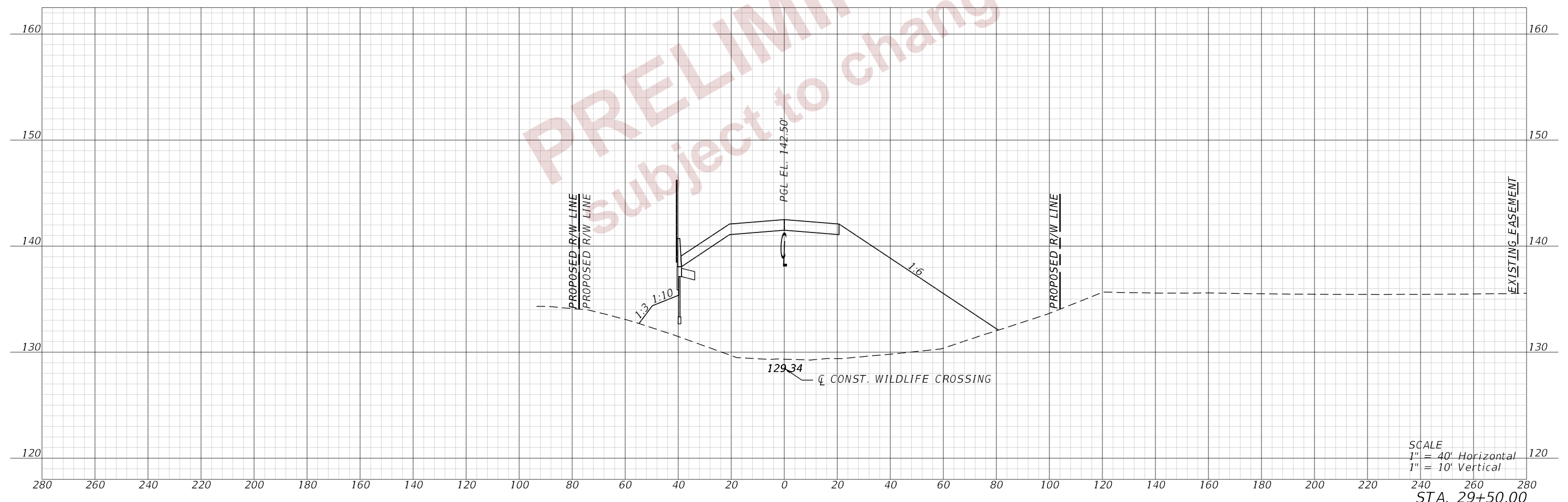
PRELIMINARY

Subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (29) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		64
						SR 400	POLK	201214-8-52-01		

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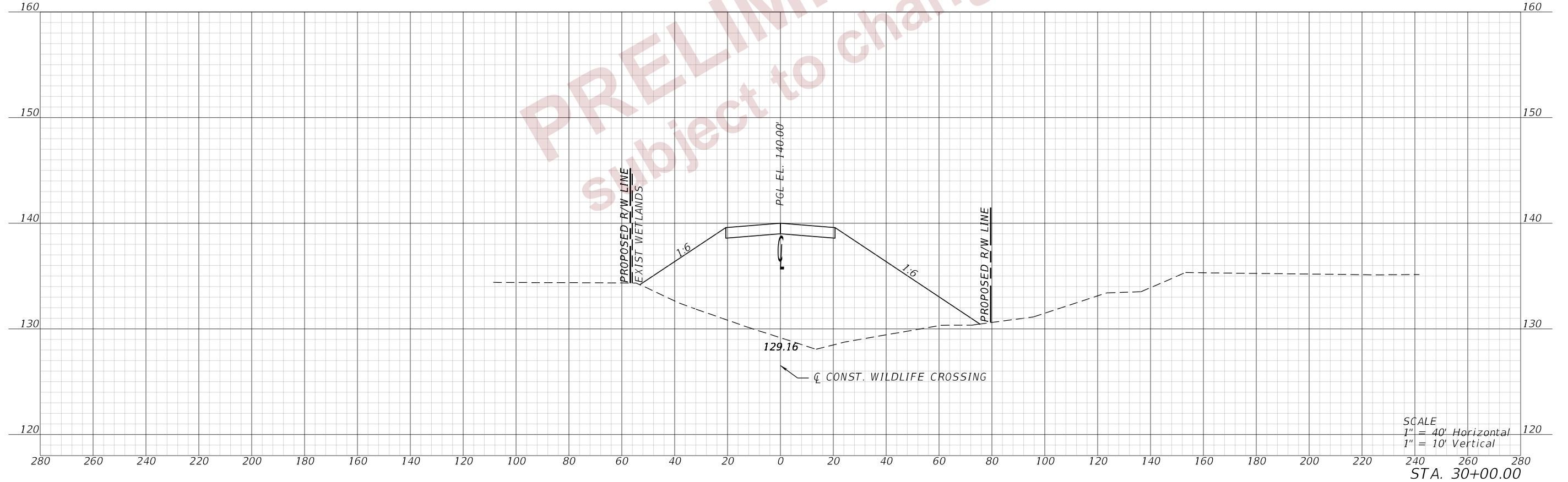
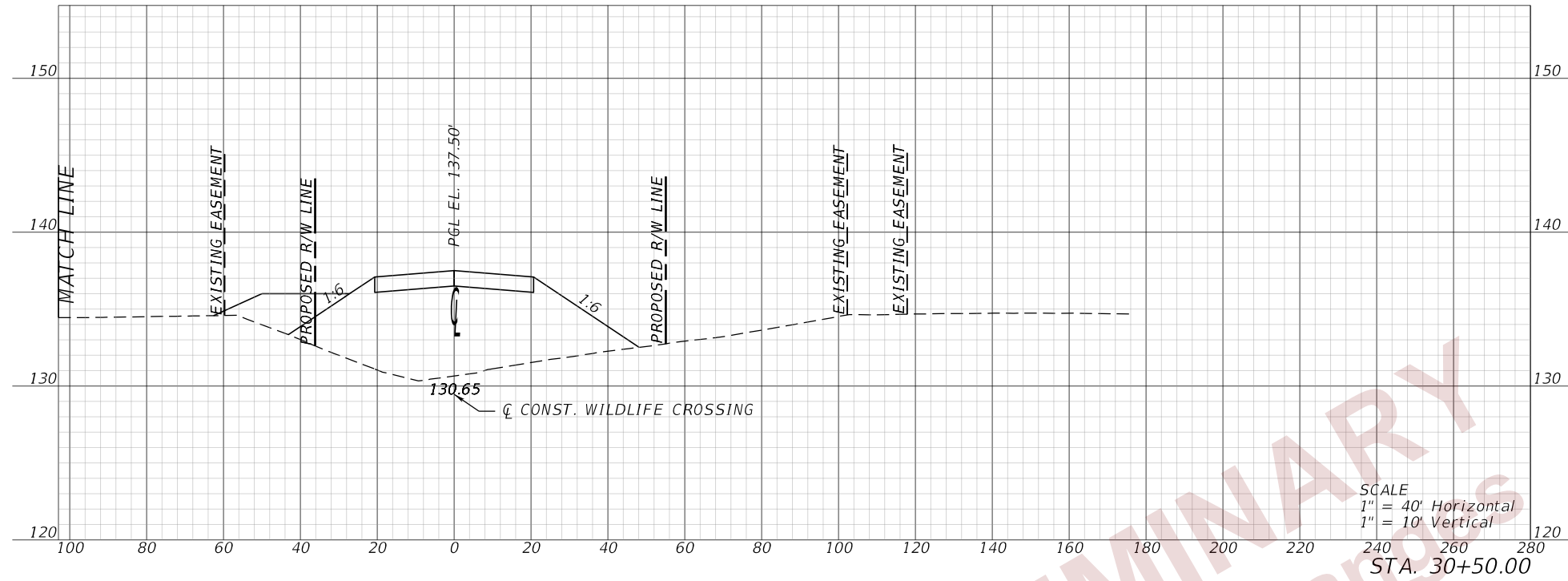
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS (30) WILDLIFE CROSSING	SHEET NO. 65
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		SR 400	POLK	201214-8-52-01		

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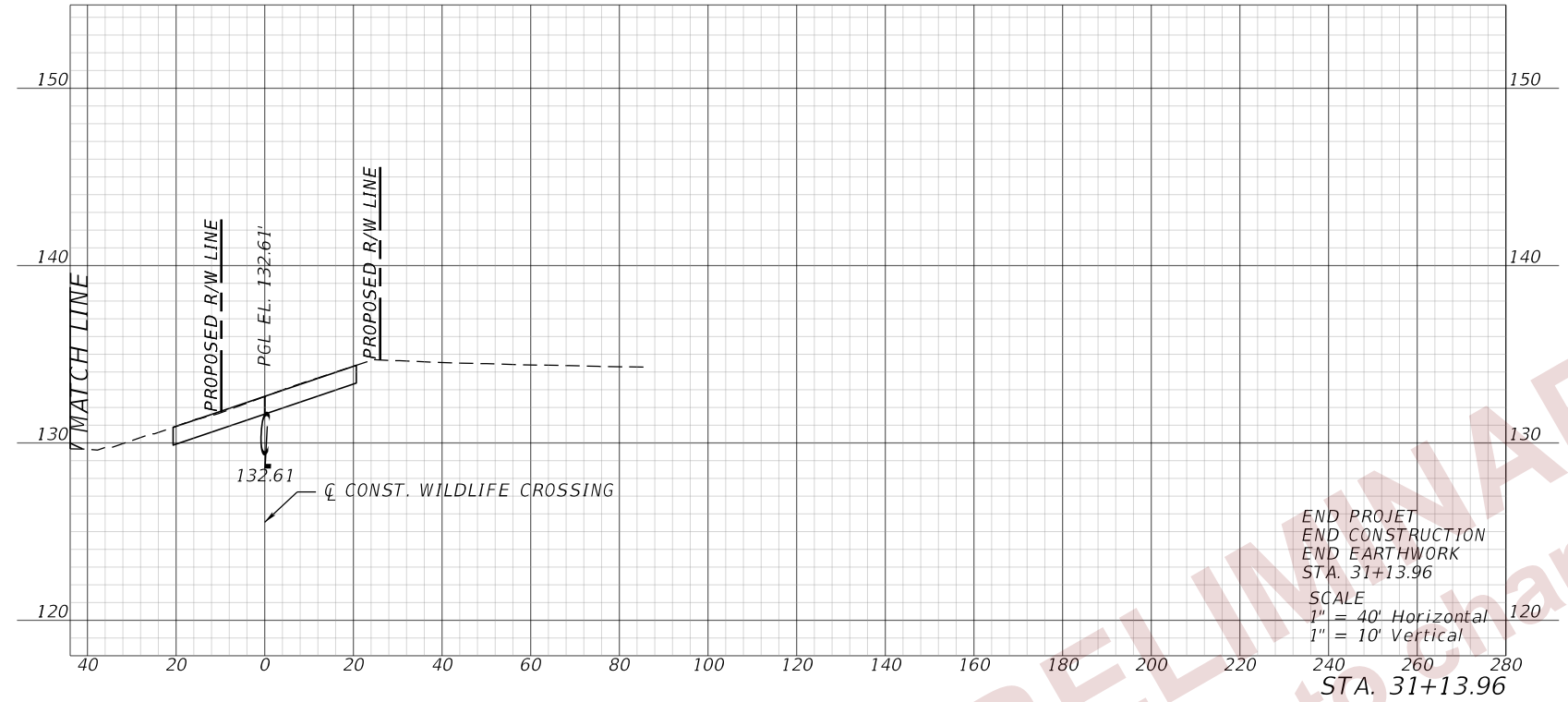


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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (31) WILDLIFE CROSSING</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		66
						SR 400	POLK	201214-8-52-01		

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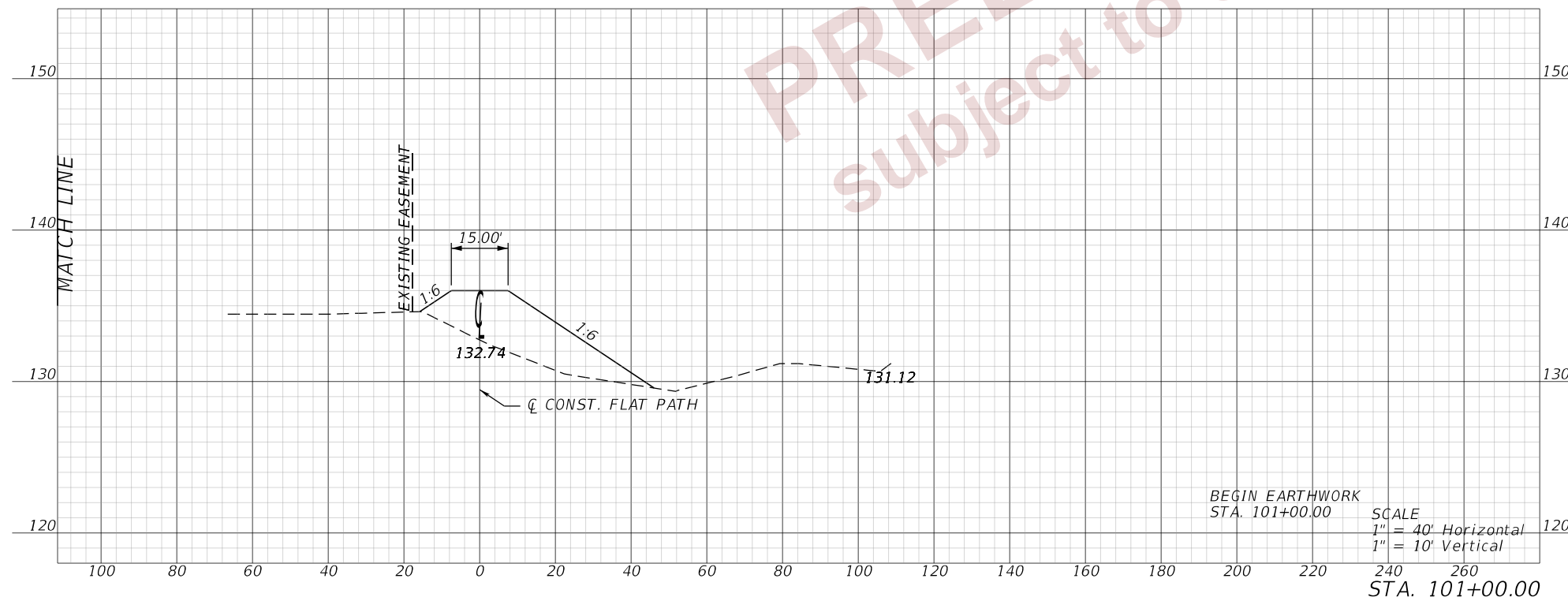
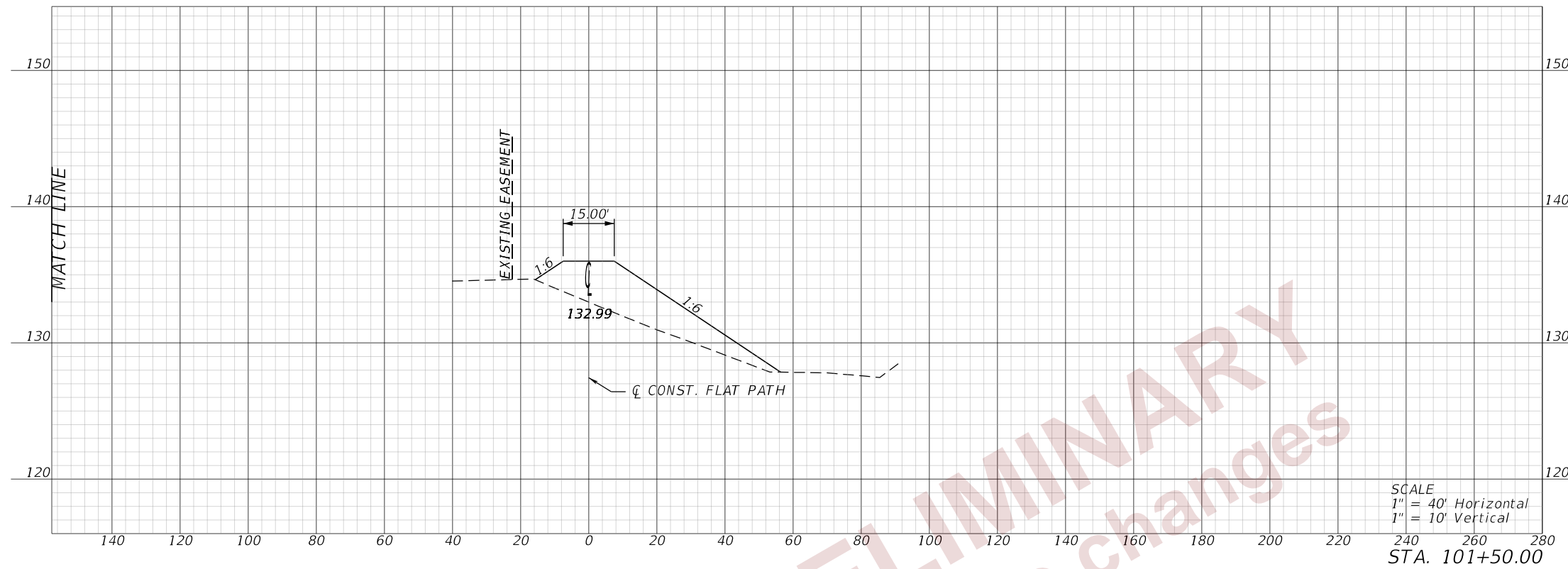
PRELIMINARY  
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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (32) WILDLIFE CROSSING</b>	SHEET NO.				
DATE	DESCRIPTION	DATE	DESCRIPTION											
				DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">ROAD NO.</th> <th style="width: 33%;">COUNTY</th> <th style="width: 33%;">FINANCIAL PROJECT ID</th> </tr> <tr> <td style="text-align: center;">SR 400</td> <td style="text-align: center;">POLK</td> <td style="text-align: center;">201214-8-52-01</td> </tr> </table>	ROAD NO.		COUNTY	FINANCIAL PROJECT ID	SR 400	POLK	201214-8-52-01
ROAD NO.	COUNTY	FINANCIAL PROJECT ID												
SR 400	POLK	201214-8-52-01												

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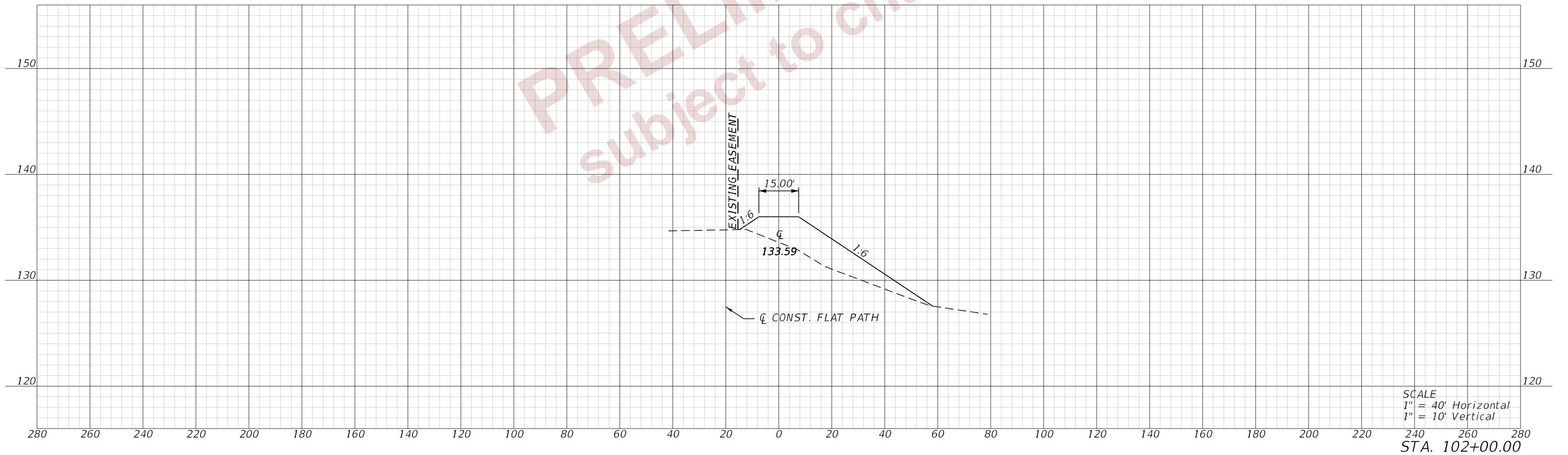
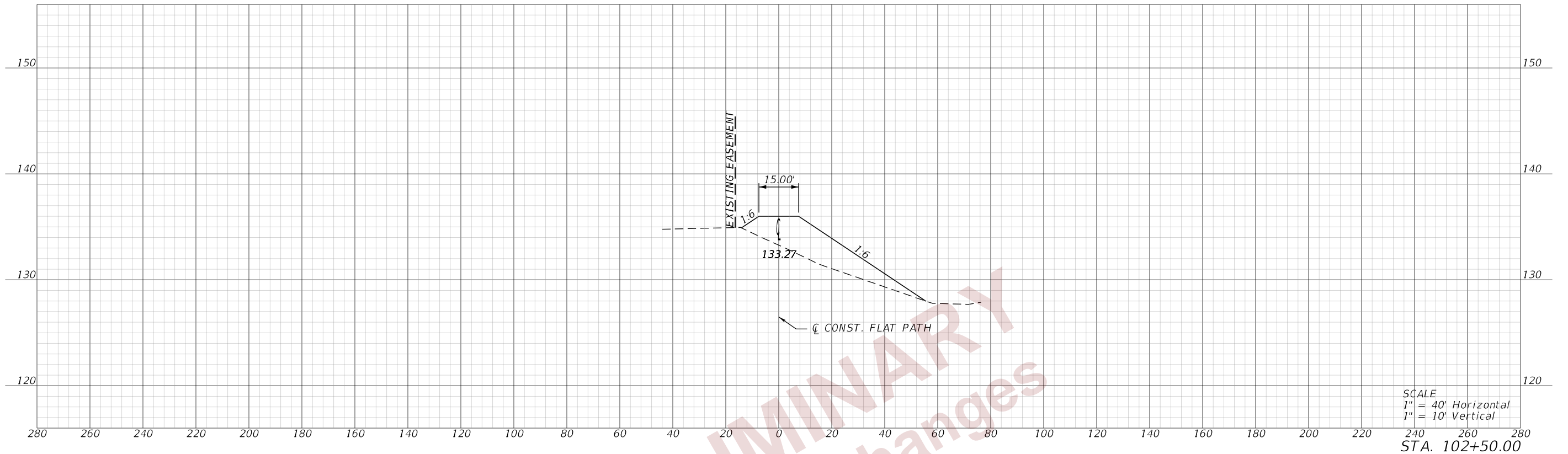


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subject to changes

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (33) FLAT PATH</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		68
			DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01		

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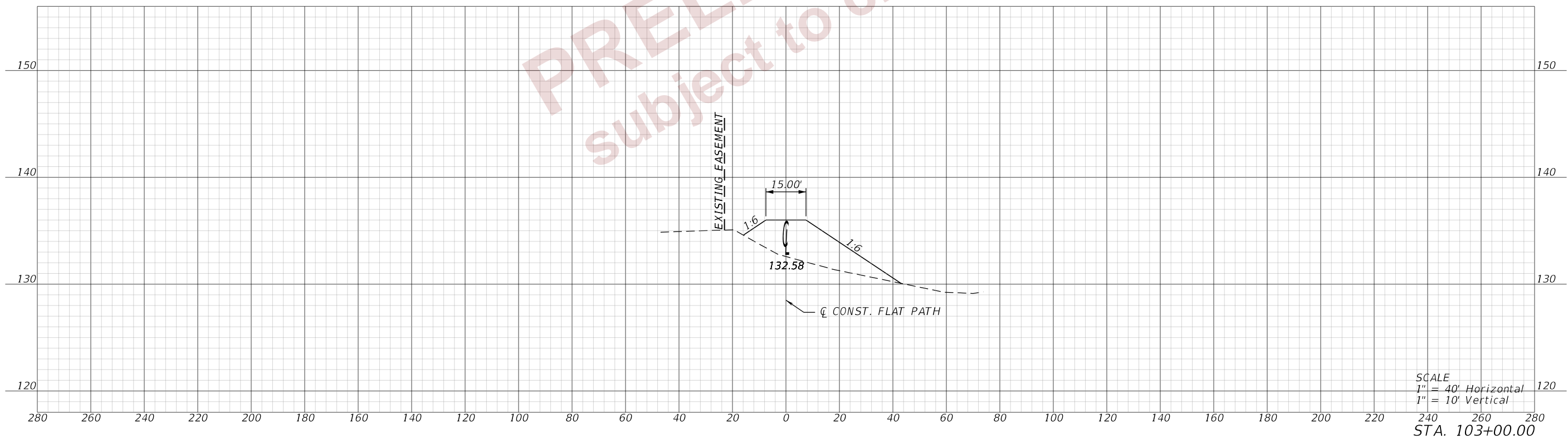
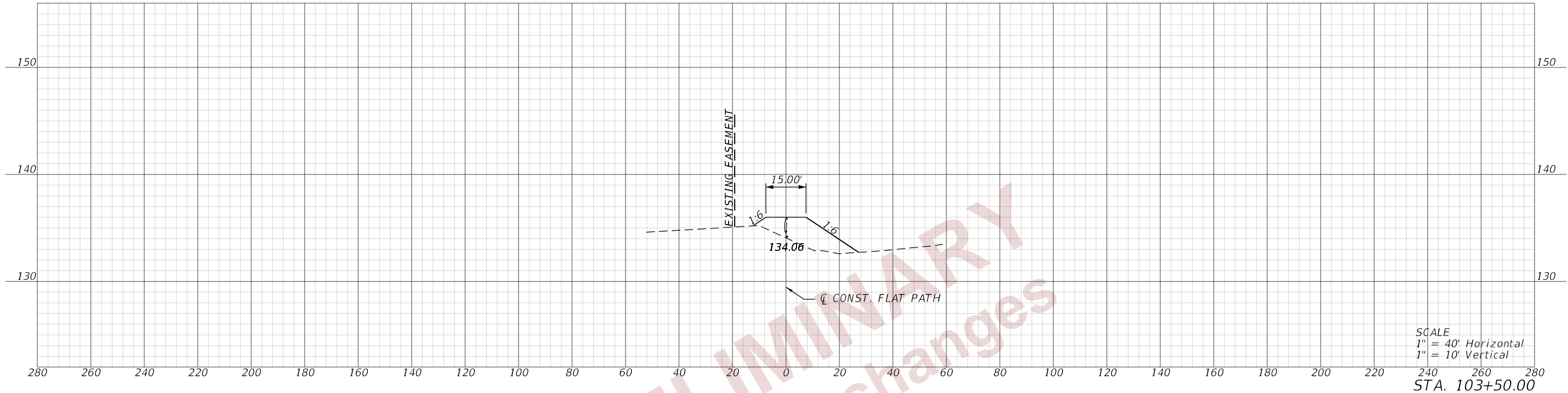


PRELIMINARY  
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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (34) FLAT PATH</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		69
							SR 400	POLK	201214-8-52-01		

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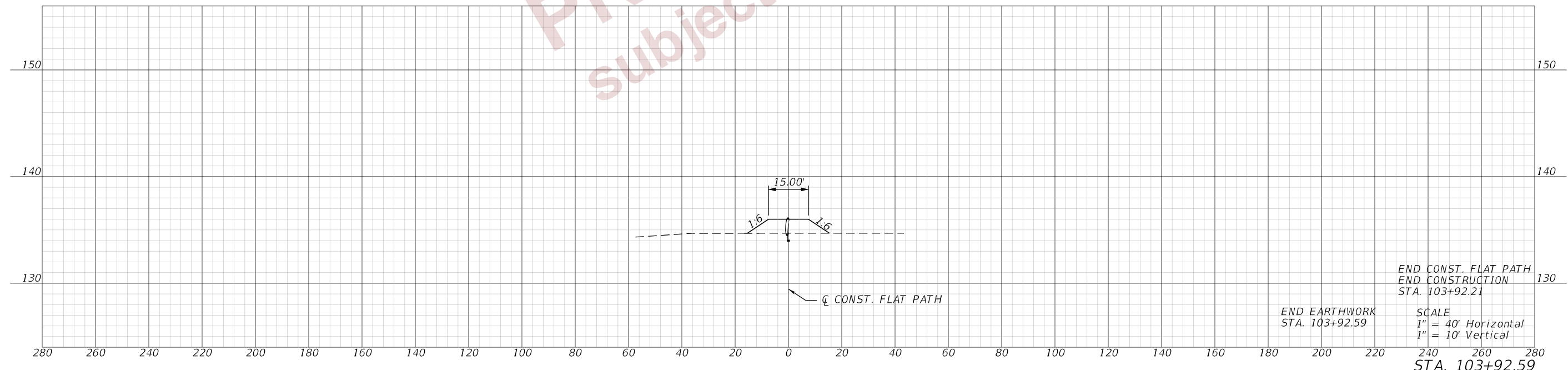


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subject to changes

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (35) FLAT PATH</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		70
								SR 400		POLK

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>CROSS SECTIONS (36)</b> <b>FLAT PATH</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		71
						SR 400	POLK	201214-8-52-01		

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD PLANS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE CONSTRUCTION OF A WILDLIFE OVERPASS OVER INTERSTATE 4 (SR 400). THIS INVOLVES CONSTRUCTING MSE WALLS, BRIDGE ABUTMENTS AND SUPERSTRUCTURE, BRIDGE SUPPORT COLUMNS, GUARDRAIL, CROSS DRAINS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM SOUTH OF I-4 TO NORTH OF I-4, A DISTANCE OF APPROXIMATELY 0.32 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS A SEQUENCE IS PROPOSED THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND CROSS DRAIN CONSTRUCTION.
2. CLEARING AND GRUBBING, EARTHWORK FOR FLOODPLAIN COMPENSATION CONSTRUCTION AND POND 200 MODIFICATION.
3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF WALLS, BRIDGE CONSTRUCTION.

1.C. AREA ESTIMATES:

TOTAL SITE AREA: 13 ACRES  
 TOTAL AREA TO BE DISTURBED: 13 ACRES

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.30  
 DURING: VARIES FROM 0.30 TO 0.40  
 AFTER: 0.35

SOILS DATA: THE RESULTS OF SOIL BORINGS DONE INDICATE THE SOILS ARE GENERALLY SILTY SANDS AND CLAYEY SANDS.

OUTFALL INFORMATION:

THERE IS 1 OUTFALL.

#1 DESCRIPTION: WETLAND/QUAIL CREEK.

LOCATION: LATITUDE 28° 09' 06.35" N, LONGITUDE, 81° 52' 22.34" W.  
 EST. DRAINAGE AREA SIZE: 100 ACRES  
 RECEIVING WATER NAME: QUAIL CREEK.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

\* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.

\* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE POND TYPICAL SECTIONS LOCATED WITH THE POND DETAIL SHEETS.

\* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

\* AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.

\* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL.

\* LOCATIONS OF PERMANENT CONTROLS: THE FLOODPLAIN COMPENSATION SITES AND CROSS DRAINS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS.

\* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

\* SURFACE WATERS: THE ONLY SURFACE WATER WITHIN THE SITE IS THE DITCH LOCATED EAST OF THE WILDLIFE OVERPASS SOUTH OF I-4, WHICH FLOWS THROUGH THE EXISTING CULVERT (UNDER I-4) AT STATION 1207+65.

\* DISCHARGE POINTS TO SURFACE WATERS: THERE ARE TWO. RUNOFF FROM THE SOUTHERN TIE DOWN OF THE WILDLIFE OVERPASS DISCHARGES TO THE EXISTING DITCH TO THE EAST. RUNOFF FROM THE NORTHERN TIE DOWN OF THE WILDLIFE OVERPASS DISCHARGES TO THE EXISTING WETLAND TO THE NORTH, WHICH DRAINS NORTH TO QUAIL CREEK.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES. THERE ARE WETLAND AREAS ON THE PROJECT SITE. THE PROJECT SITE IS LOCATED WITHIN WBID 1449B, ORANGE HAMMOCK, AND DRAINS VIA QUAIL CREEK TO WBID 1426, PONY CREEK. NEITHER WBID IS IMPAIRED. BOTH WBIDS ARE WITHIN THE UPPER WITHLACOOCHEE BASIN GROUP. NO BMAP OR TMDL'S ARE CURRENTLY AVAILABLE FOR THESE WBIDS.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607					SR 400	
<b>STORMWATER POLLUTION PREVENTION PLANS (01)</b>										



2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

CROSS DRAINS:

CONSTRUCT THE CROSS DRAINS, CD-1 AND CD-2. THE CONTRACTOR SHALL HAVE INLET PROTECTION AVAILABLE AT ALL TIMES DURING THE PIPE CONSTRUCTION TO SUBSTANTIALLY BLOCK RUNOFF IN THE TRENCH FROM ENTERING THE PIPE.

FLOODPLAIN COMPENSATION SITE CONSTRUCTION:

CLEAR AND GRUB THE FLOODPLAIN COMPENSATION SITES. INITIALLY EXCAVATE THE SITES ONLY ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE EROSION CONTROL PLAN. THEN EXCAVATE THE SITES TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS OF THE SITES ABOVE ELEVATION 134.5. FINAL GRADING WILL BE DONE AT THE END OF BRIDGE CONSTRUCTION.

POND 200 MODIFICATION:

CLEAR AND GRUB THE POND SITE. INITIALLY EXCAVATE THE SITE ONLY ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE EROSION CONTROL PLAN. CONSTRUCT DOUBLE SILT FENCE ALONG WETLAND BOUNDARY. THEN EXCAVATE THE SITES TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS OF THE SITE ABOVE ELEVATION 134.5. FINAL GRADING WILL BE DONE AT THE END OF BRIDGE CONSTRUCTION.

PHASE I OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE PIER IN MEDIAN ALONG SR 400

PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. IMMEDIATELY AFTER CONSTRUCTING THE TEMPORARY PAVEMENT, STABILIZE THE ENTIRE AREA BETWEEN THE TEMPORARY PAVEMENT AND THE EXISTING PAVEMENT USING TEMPORARY SOD. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

PHASE II OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT RETAINING WALLS ALONG THE OUTSIDE OF SR 400

INSTALL SEDIMENT BARRIERS AROUND PERIMETER OF WORK ZONE AS DETAILED IN THE EROSION CONTROL PLAN. INSTALL FLOATING TURBIDIDTY BARRIER AT INVERTS OF EXISTING CROSS DRAINS AND WITHIN EXISTING WET DITCHES, AND INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN.

PHASE III OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE SUPERSTRUCTURE OVER EASTBOUND SR 400

INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES

IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN. PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

PHASE IV OF TEMPORARY TRAFFIC CONTROL PLANS:

CONSTRUCT BRIDGE SUPERSTRUCTURE OVER WESTBOUND SR 400

INSTALL STAKED TURBIDITY BARRIER WITHIN EXISTING DRY SWALES IMMEDIATELY UPSTREAM AND DOWNSTREAM OF WORK ZONE, AS DETAILED IN THE EROSION CONTROL PLAN. PLACE INLET PROTECTION AROUND INLETS LOCATED IN THE MEDIAN OF SR 400, WITHIN 300 FEET OF WORK ZONE. PROVIDE INLET PROTECTION AND MAINTIAN TEMPORARY CROSS DRAINS.

2.A1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

- \* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.
- \* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

- \* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

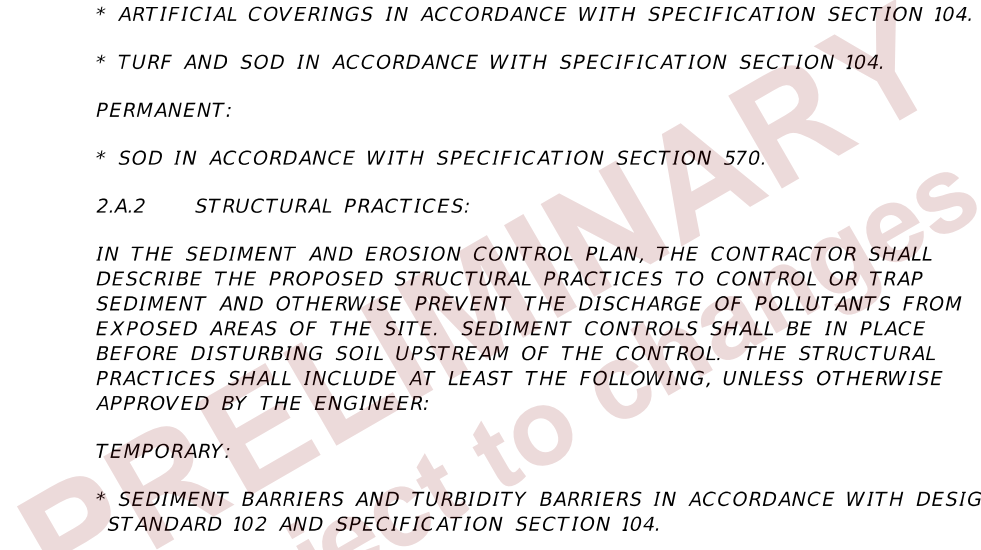
TEMPORARY:

- \* SEDIMENT BARRIERS AND TURBIDITY BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.
- \* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102.

- \* SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT FLOODPLAIN COMPENSATION SITES MAY BE TEMPORARILY MODIFIED.

PERMANENT:

- \* FLOODPLAIN COMPENSATION SITES.
- \* SOD.



REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01	73

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- \* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- \* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- \* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. INCLUDE IN THE PROPOSED METHODS AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- \* COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- \* REMOVING EXCESS DIRT FROM ROADS DAILY.
- \* STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- \* USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- \* SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.
- \* SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER.

TO COMPLY, INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, CONDUCT INSPECTION AT LEAST ONCE EVERY MONTH. ALSO, INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- \* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- \* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- \* DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- \* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- \* STRUCTURAL CONTROLS.
- \* STORMWATER MANAGEMENT SYSTEMS.
- \* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

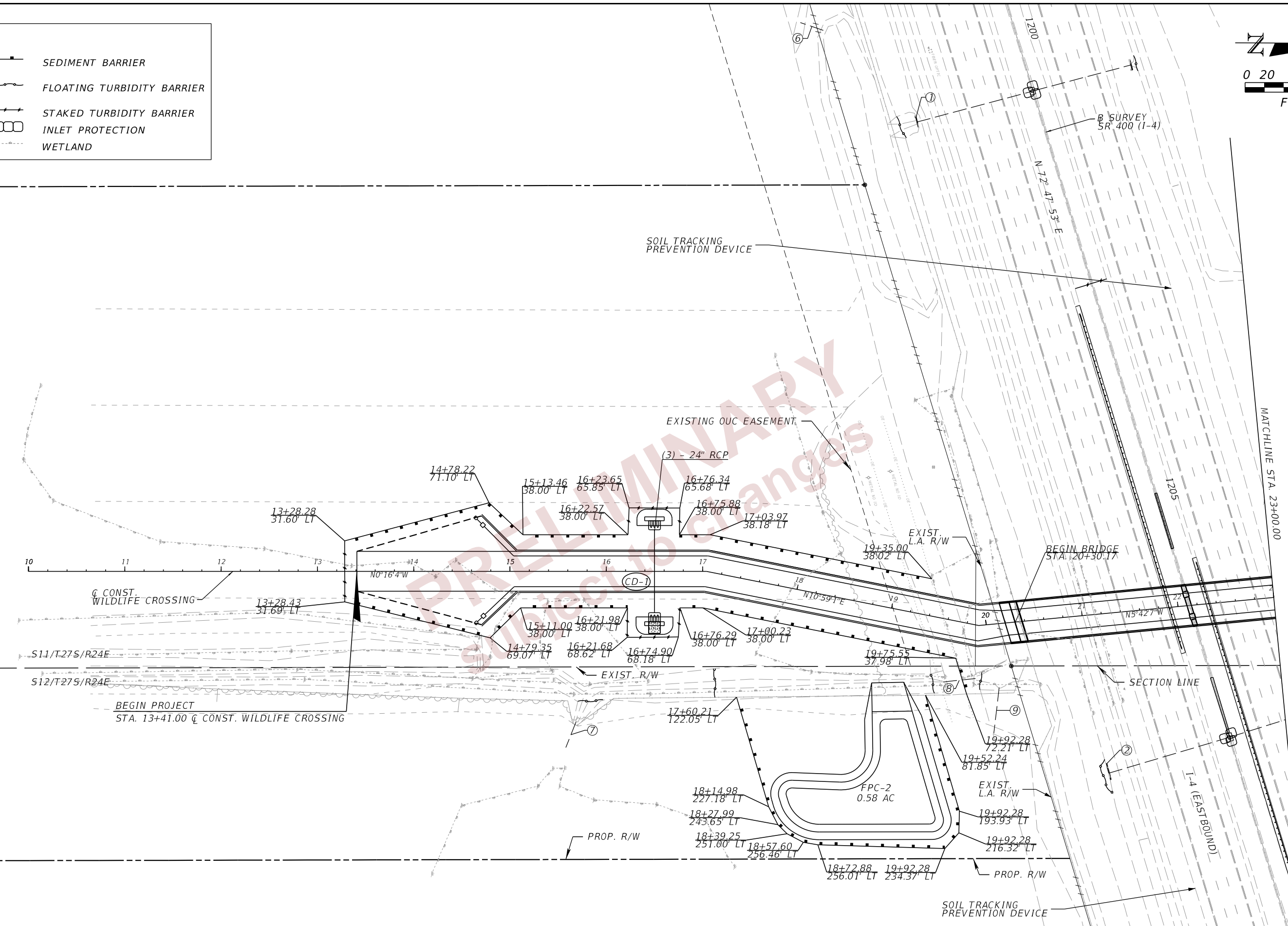
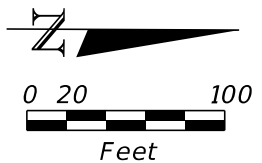
IN THE SECTION 104 EROSION CONTROL PLAN, IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (863) 519-2300.

PRELIMINARY  
subject to changes

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>STORMWATER POLLUTION PREVENTION PLANS (03)</b>	SHEET NO.  74
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	SR 400	POLK	201214-8-52-01		

**LEGEND:**

	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER
	INLET PROTECTION
	WETLAND

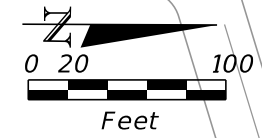
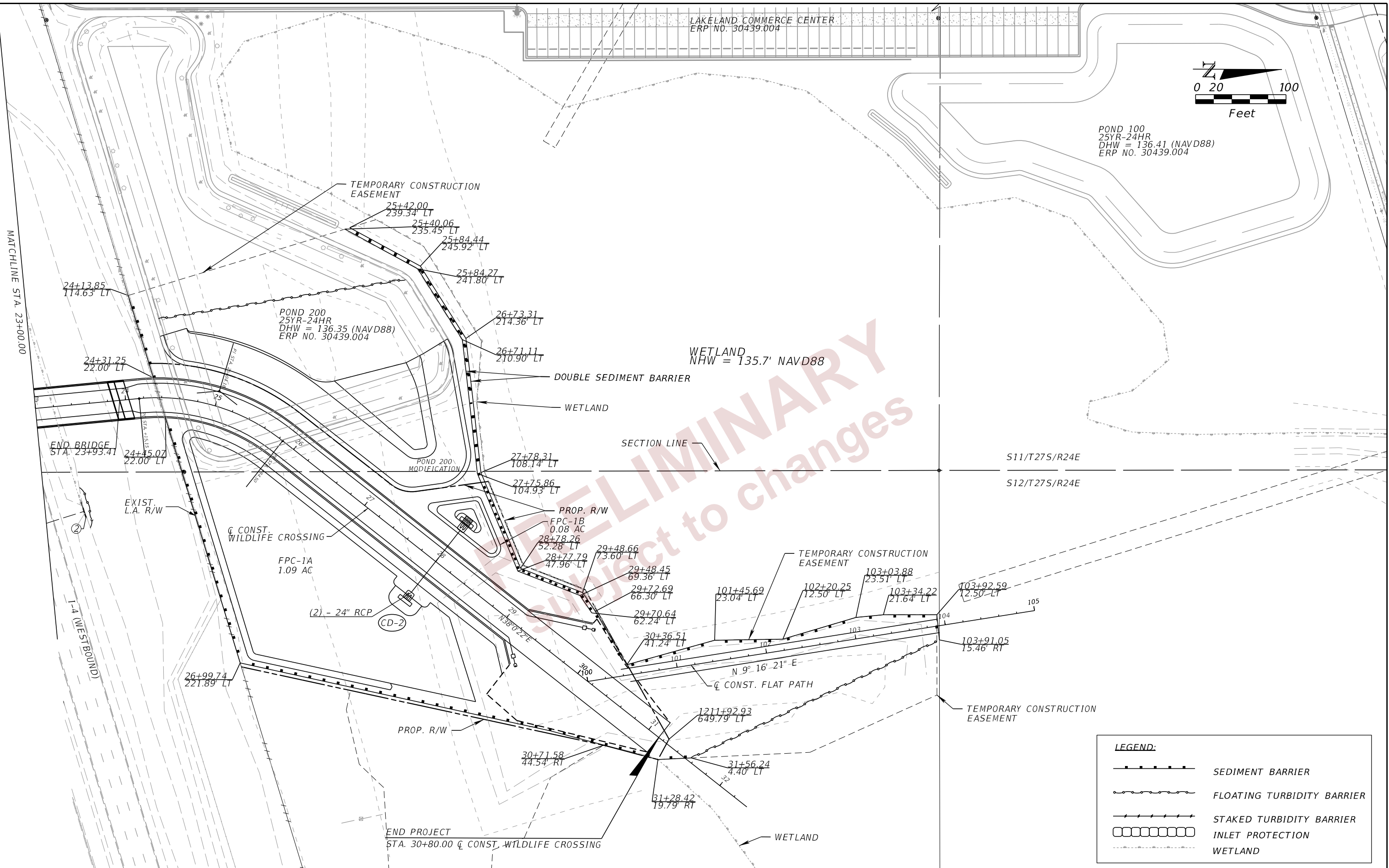


REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		DEPARTMENT OF TRANSPORTATION			
				THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	75
					SR 400	POLK	201214-8-52-01	

**EROSION CONTROL PLANS (01)**

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POND 100  
25YR-24HR  
DHW = 136.41 (NAVD88)  
ERP NO. 30439.004

LAKELAND COMMERCE CENTER  
ERP NO. 30439.004

POND 200  
25YR-24HR  
DHW = 136.35 (NAVD88)  
ERP NO. 30439.004

WETLAND  
NHW = 135.7' NAVD88

S11/T27S/R24E

S12/T27S/R24E

**LEGEND:**

	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	STAKED TURBIDITY BARRIER
	INLET PROTECTION
	WETLAND

MATCHLINE STA. 23+00.00

END BRIDGE  
STA. 23+93.41

EXIST.  
L.A. R/W

Q CONST.  
WILDLIFE CROSSING

FPC-1A  
1.09 AC

(2) - 24" RCP  
(CD-2)

PROP. R/W

FPC-1B  
0.08 AC

TEMPORARY CONSTRUCTION  
EASEMENT

Q CONST. FLAT PATH

TEMPORARY CONSTRUCTION  
EASEMENT

END PROJECT  
STA. 30+80.00 Q CONST. WILDLIFE CROSSING

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	THERESA D. ELLISON, P.E. LICENSE NUMBER 53918 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 400	POLK	201214-8-52-01	76

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

1. THE REGULATORY SPEED LIMIT THROUGH THE WORK ZONE ON THIS PROJECT IS TO REMAIN THE SAME AS THE EXISTING POSTED SPEED ON SR 400 (I-4) UNLESS OTHERWISE SHOWN IN THE PLANS.

THE REGULATORY SPEED LIMIT FOR THE PROJECT WORK ZONE ARE AS FOLLOWS:

ROADWAY	REGULATORY SPEED LIMIT (MPH)	WORK ZONE SPEED LIMIT
SR 400 (I-4)	70 MPH	70 MPH

2. ALL LANE CLOSURES MUST BE COORDINATED WITH EMERGENCY AND RESCUE AGENCIES AND INFORM THE FDOT TRAFFIC OPERATIONS SECTION AND SUBMIT REQUEST TWO (2) WEEKS IN ADVANCE OF ANY LANE CLOSURES. NOTIFY THE FDOT PUBLIC INFORMATION OFFICER ONE (1) WEEK IN ADVANCE OF LANE CLOSURES.

3. NOTIFY LOCAL LAW ENFORCEMENT AGENCIES, FIRE STATIONS, AND THE PUBLIC THROUGH MEDIA OUTLETS TWO WORKING DAYS IN ADVANCE OF LANE AND RAMP CLOSURES.

4. LANE CLOSURE RESTRICTIONS:  
SR 400 (I-4):

NO SINGLE LANE CLOSURES FROM 6:30 AM TO 8:30 PM.  
NO DOUBLE LANE CLOSURES FROM 6:00 AM TO 10:30 PM.

5. LANE CLOSURES MAY ONLY BE UTILIZED DURING ACTIVE WORK PERIODS. THE WORK ZONE LENGTH FOR CONSTRUCTION ACTIVITIES REQUIRING LANE CLOSURES SHALL BE LIMITED TO THAT WHICH CAN BE CONSTRUCTED AND OPENED TO TRAFFIC IN A SINGLE WORK PERIOD. THE CONTRACTOR IS TO MAINTAIN EXISTING LANES OF TRAFFIC IN EACH DIRECTION AT ALL OTHER TIMES.

6. THE TRAFFIC MANAGEMENT CENTER (TMC) SHALL BE NOTIFIED WHEN A LANE CLOSURE IS IMPLEMENTED AND WHEN LANES ARE REOPENED FOR TRAFFIC. TMC CONTACT: 813-615-8657

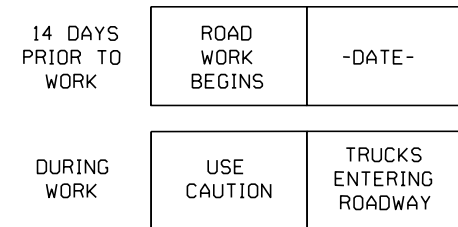
7. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR, MATERIALS, AND EQUIPMENT ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

8. PORTABLE CHANGEABLE MESSAGES SIGNS SHALL BE USED TO PROVIDE INFORMATION TO THE MOTORIST DURING THE TRAFFIC CONTROL PHASES AND SHALL RELATE INFORMATION CONCERNING CONSTRUCTION SCHEDULES, LENGTH OF DELAY, ETC.; CONTENT AND LENGTH OF MESSAGE SHALL BE APPROVED BY THE ENGINEER. INFORMATIONAL MESSAGE SHALL BE PLACED TWO WEEKS PRIOR TO MAJOR WORK ACTIVITIES, WHICH WILL BE DEFINED BY THE ENGINEER.

9. COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE FOR TOLL PAYMENT SUSPENSION DURING DETOUR HOURS 14 DAYS PRIOR TO DETOUR START AND NOTIFY TURNPIKE TMC BEFORE AND AFTER A DETOUR IS IMPLEMENTED. TURNPIKE TMC CONTACT: 407-264-3363

10. NOTIFY FLORIDA POLYTECHNIC UNIVERSITY POLICE 14 DAYS PRIOR TO DETOUR START. UNIVERSITY POLICE CONTACT: 863-874-8472

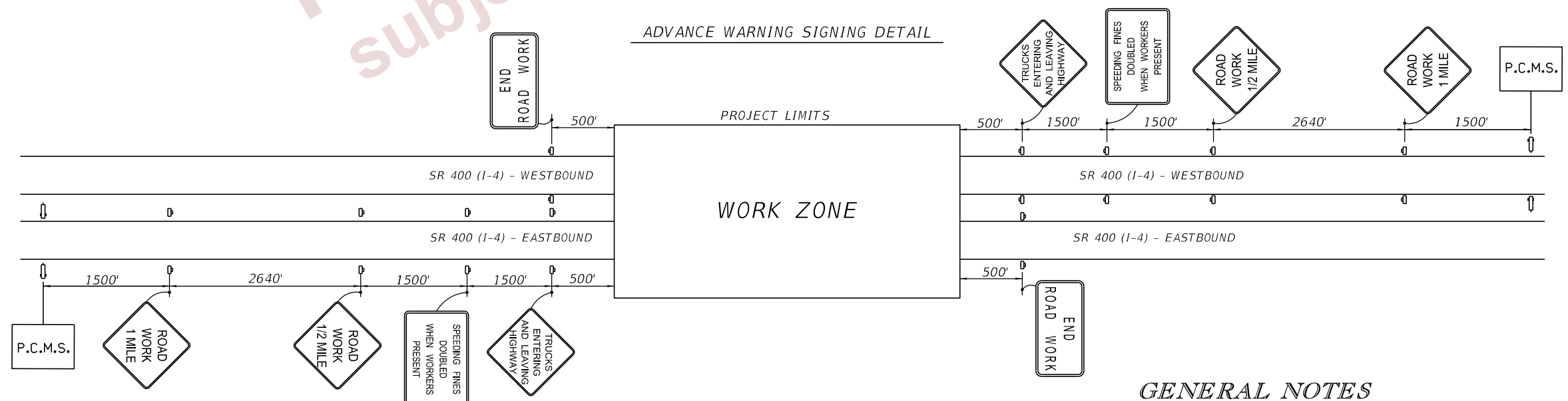
TYPICAL  
PORTABLE CHANGEABLE (VARIABLE)  
MESSAGE SIGN (P.C.M.S.)



PRELIMINARY  
subject to changes

LEGEND

- Work Zone Sign
- Portable Changeable (Variable) Message Sign



GENERAL NOTES

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION				ROAD NO.	COUNTY		FINANCIAL PROJECT ID
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810						
<b>TEMP. TRAFFIC CONTROL PLAN (01)</b>										77

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**PHASE I**  
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE PIER IN THE MEDIAN ALONG SR 400.

**STEP 1**

1. INSTALL WORK ZONE SIGNS, ADVANCED SIGNING DETAIL AND TRAFFIC CONTROL DEVICES UTILIZING STANDARD PLANS INDEX 102-602.
2. INSTALL TEMPORARY EROSION CONTROL DEVICES.

**STEP 2**

1. PLACE TEMPORARY BARRIER WALL AND TEMPORARY CRASH CUSHIONS ALONG THE INSIDE SHOULDERS AS SHOWN IN THE PHASE 1 - STEP 2 PLAN SHEET AND PHASE 1 - STEP 2 TYPICAL SECTION. UTILIZE STANDARD PLANS INDEX 102-613 FOR SINGLE LANE CLOSURE AND MOTORIST AWARENESS SYSTEM.
2. CONSTRUCT THE PIER AND GUARDRAIL WITHIN THE MEDIAN.

**PHASE II**

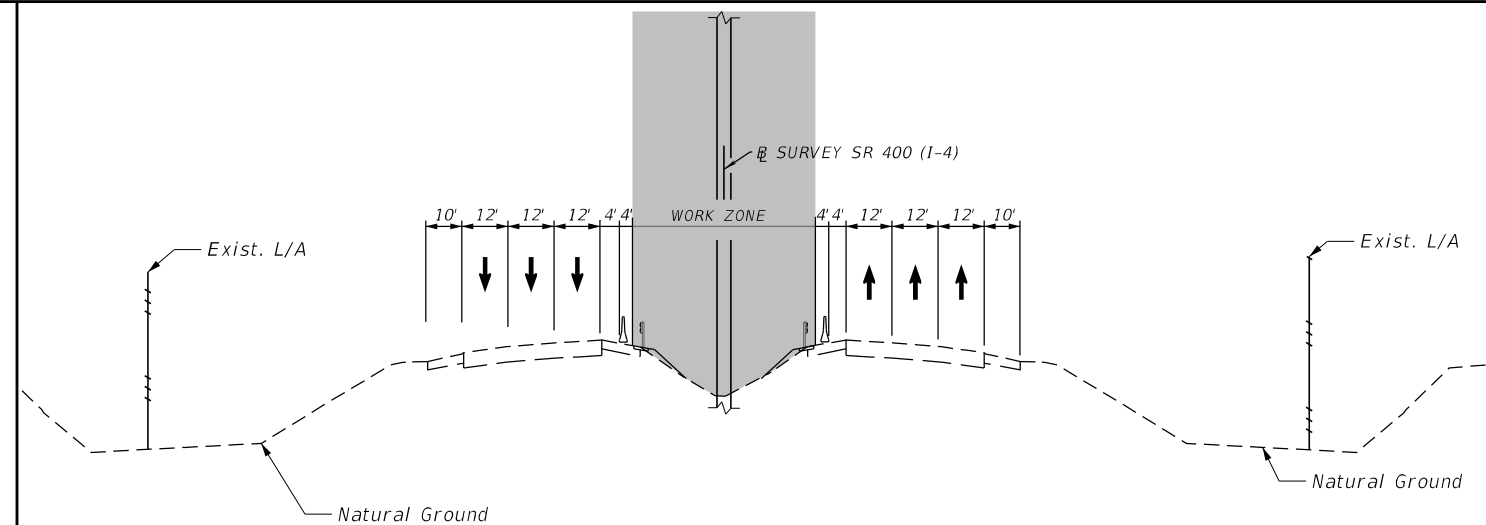
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE RETAINING WALLS ALONG THE OUTSIDE OF SR 400.

1. INSTALL WORK ZONE SIGNS, ADVANCE SIGNING AND OTHER TRAFFIC CONTROL DEVICES AS SHOWN IN THE STANDARD PLANS INDEX 102-602.
2. INSTALL TEMPORARY EROSION CONTROL DEVICES.
3. INSTALL CHANNELIZING DEVICES OUTSIDE OF THE PAVED SHOULDERS AS SHOWN IN THE PHASE II TYPICAL SECTION.
4. CONSTRUCT THE RETAINING WALLS.

**PHASE III**

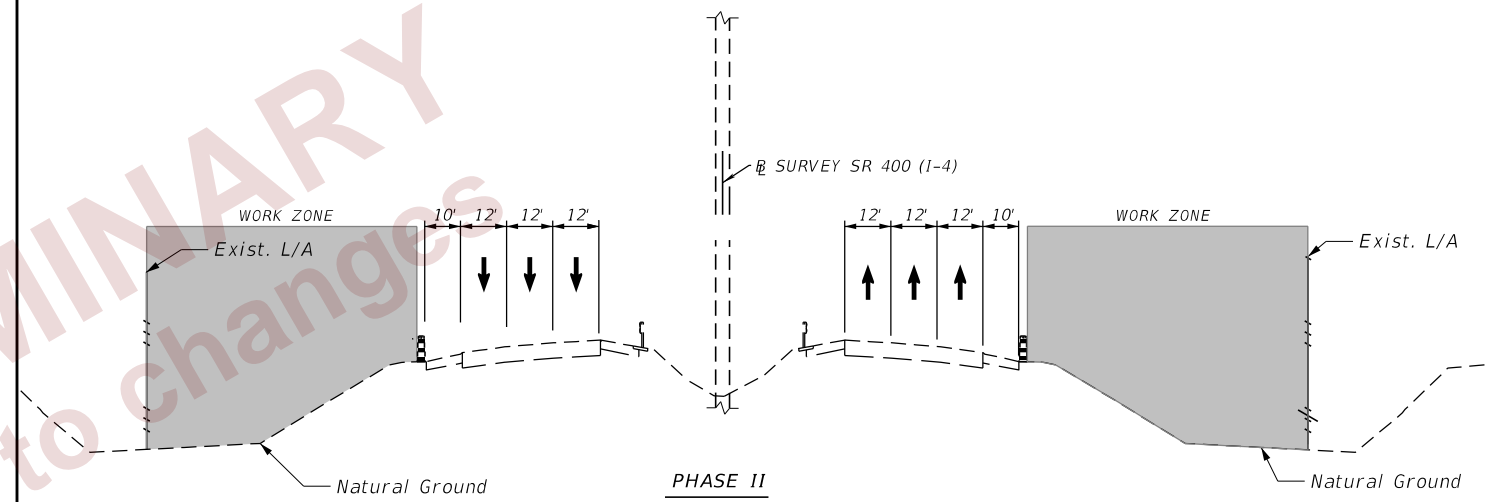
THE INTENT OF THIS PHASE IS TO CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400.

1. INSTALL WORK ZONE SIGNS AND TRAFFIC CONTROL DEVICES AS SHOWN IN THE TRAFFIC CONTROL PLAN (DETOUR DETAIL).
2. CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400 (I-4 EASTBOUND).
3. CONSTRUCT THE BRIDGE SUPERSTRUCTURE OVER SR 400 (I-4 WESTBOUND).



**PHASE I - STEP 2**  
NTS

NOTE: EXISTING PAVEMENT MARKINGS ARE TO REMAIN.



**PHASE II**  
NTS

NOTE: EXISTING PAVEMENT MARKINGS ARE TO REMAIN.

**LEGEND**

- ▬ CHANNELIZING DEVIVE (SEE INDEX 102-600)
- ▬ TEMPORARY BARRIER (FREE STANDING)

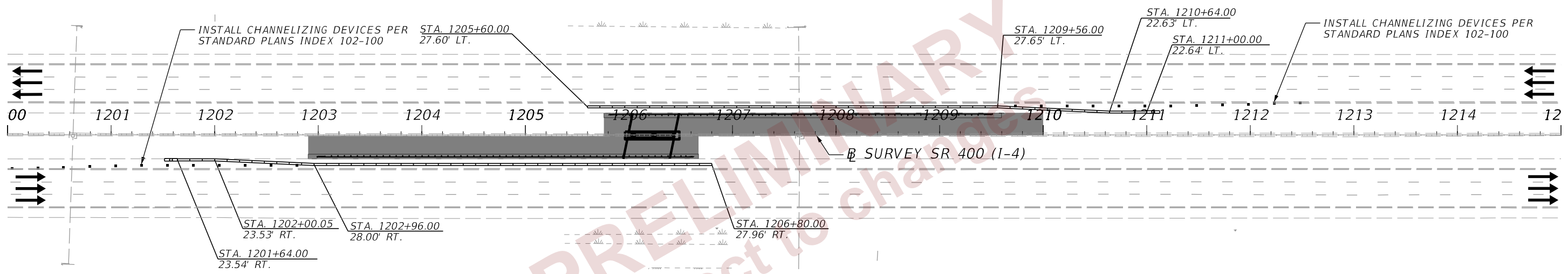
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subject to changes

**TYPICAL SECTIONS**

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TEMP. TRAFFIC CONTROL PLAN (02)</b>	SHEET NO.  <b>78</b>
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 400	POLK	201214-8-52-01		

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PRELIMINARY  
 subject to changes

- LEGEND:**
- DIRECTION OF TRAFFIC
  - WORK ZONE
  - CRASH CUSHION
  - TEMP. BARRIER WALL (FREE STANDING)

*PHASE 1 - STEP 2*

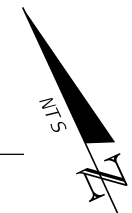
REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TEMP. TRAFFIC CONTROL PLAN (03)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLÉ, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		79
							SR 400	POLK	201214-8-52-01		

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ROAD CLOSURE NOTES

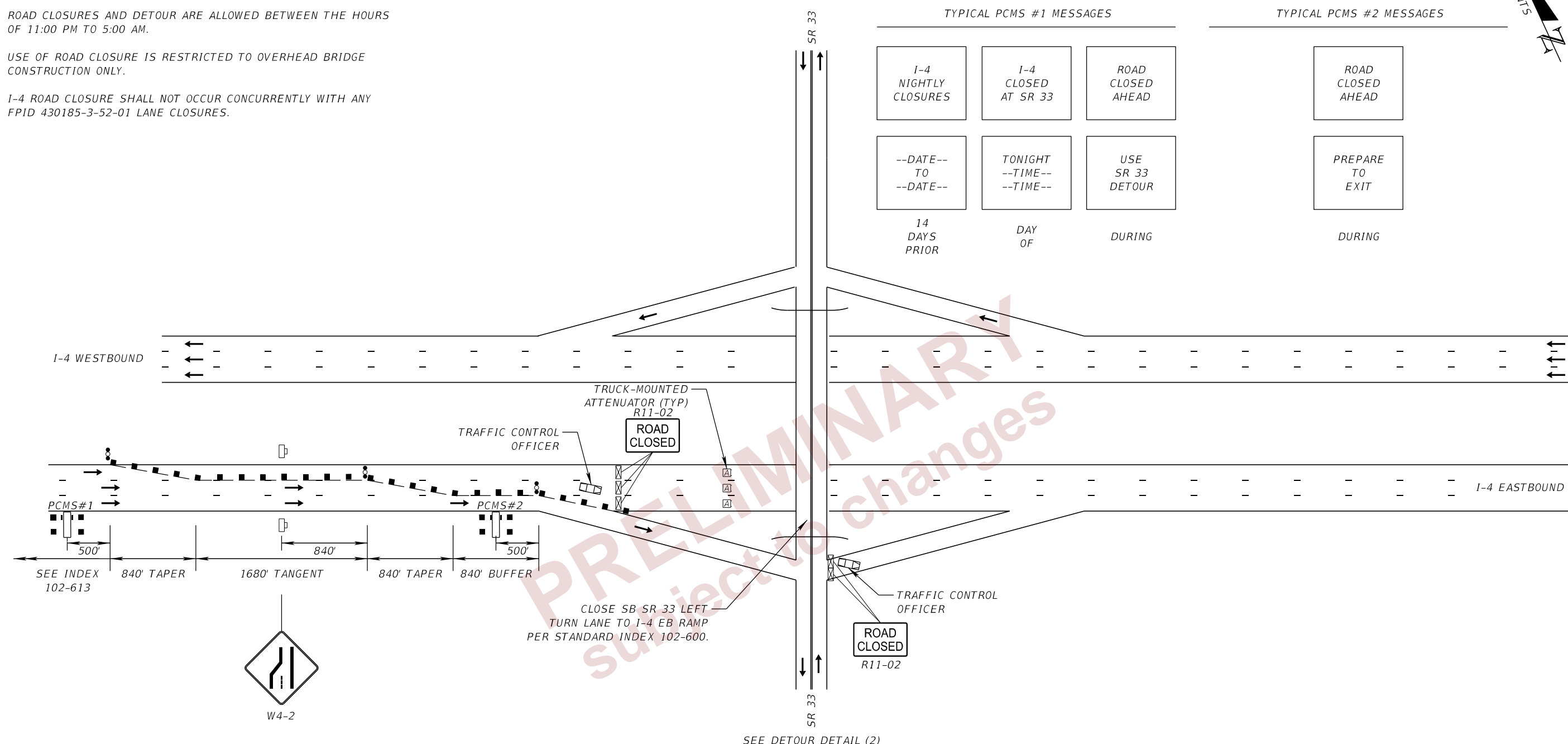
1. REFER TO STANDARD PLANS INDEX 102-613 FOR DOUBLE LANE CLOSURE ADVANCE SIGNING AND ADDITIONAL DETAILS.
2. ROAD CLOSURES AND DETOUR ARE ALLOWED BETWEEN THE HOURS OF 11:00 PM TO 5:00 AM.
3. USE OF ROAD CLOSURE IS RESTRICTED TO OVERHEAD BRIDGE CONSTRUCTION ONLY.
4. I-4 ROAD CLOSURE SHALL NOT OCCUR CONCURRENTLY WITH ANY FPID 430185-3-52-01 LANE CLOSURES.



TYPICAL PCMS #1 MESSAGES

TYPICAL PCMS #2 MESSAGES

I-4 NIGHTLY CLOSURES	I-4 CLOSED AT SR 33	ROAD CLOSED AHEAD	ROAD CLOSED AHEAD
--DATE-- TO --DATE--	TONIGHT --TIME-- --TIME--	USE SR 33 DETOUR	PREPARE TO EXIT
14 DAYS PRIOR	DAY OF	DURING	DURING



PRELIMINARY  
 Subject to changes

LEGEND

	PCMS
	Lane Identification and Direction of Traffic
	Channelizing Devices (See Index 102-600)
	Type III Barricade
	Work Zone Sign
	Advance Warning Arrow Panel

DETOUR DETAIL (1)  
(EASTBOUND I-4 CLOSURE)

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		SR 400	POLK	201214-8-52-01	80

TEMP. TRAFFIC CONTROL  
PLAN (04)

**DETOUR OBJECTIVE:**

I-4 EB: DETOUR TO SR 33 SB / LEFT AT UNIVERSITY BLVD. / RIGHT AT POLK PKWY RAMP TO GET TO I-4 EB RE-ENTRY  
 SR 33 NB: RIGHT AT UNIVERSITY BLVD, DETOUR TO POLK PKWY TO GET TO I-4 EB  
 SR 33 SB: LEFT AT UNIVERSITY BLVD, DETOUR TO POLK PKWY TO GET TO I-4 EB

NOTE: CONTRACTOR SHALL COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE TURKEY LAKE TMC AT (407) 264-3363  
 2 WEEKS PRIOR TO DETOUR START.

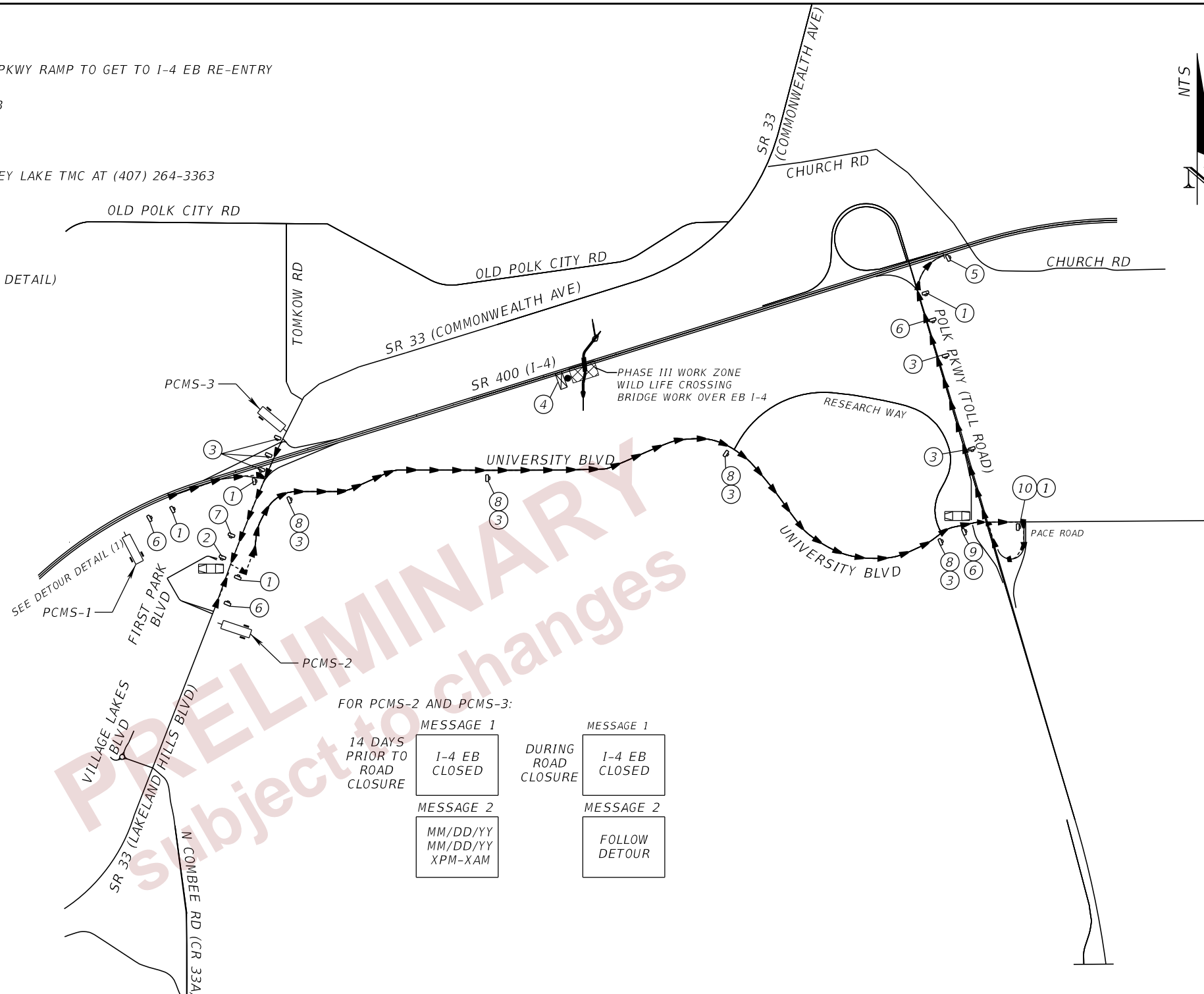
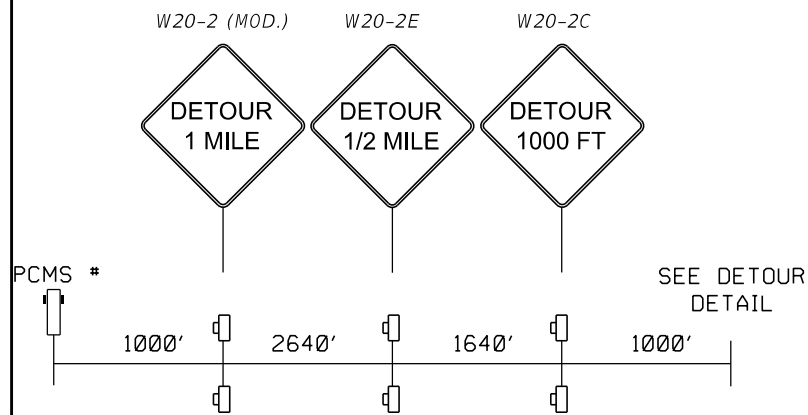
PLACE 1 PCMS EACH AT THE FOLLOWING LOCATIONS:

- PCMS-1 ON SR 400 (I-4 EB) JUST WEST OF I-4 EB OFF RAMP (SEE TRAFFIC CONTROL DETAIL)
- PCMS-2 ON SR 33 (LAKELAND HILLS BLVD) NB JUST SOUTH OF UNIVERSITY BLVD
- PCMS-3 ON SR 33 (COMMONWEALTH AVE) SB JUST NORTH OF I-4 EB ON RAMP

**LEGEND**

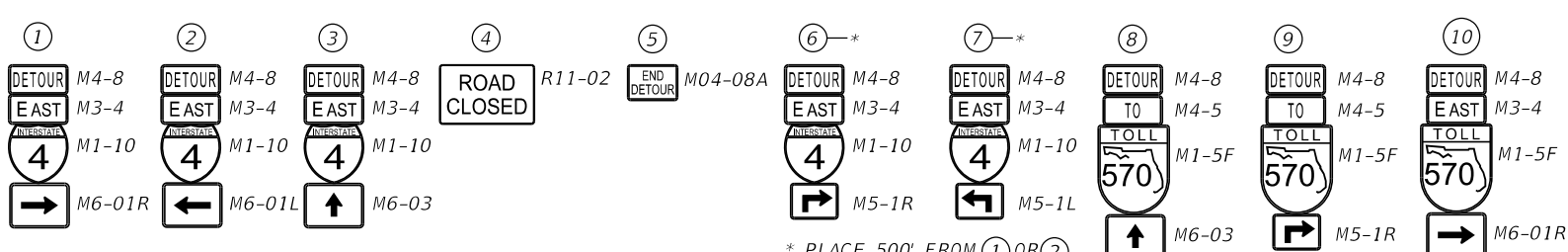
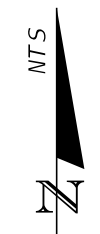
- Work Zone Sign
- Type III Barricade
- Portable Changeable (Variable) Message Sign
- Work Zone
- DETOUR ROUTE
- Law Enforcement Officer

**PCMS DETAIL**



FOR PCMS-2 AND PCMS-3:  
 MESSAGE 1: I-4 EB CLOSED  
 MESSAGE 2: MM/DD/YY MM/DD/YY XPM-XAM  
 DURING ROAD CLOSURE: I-4 EB CLOSED  
 MESSAGE 2: FOLLOW DETOUR

PRELIMINARY  
Subject to changes



\* PLACE 500' FROM ① OR ②

**DETOUR DETAIL (2)  
 (EASTBOUND I-4 CLOSURE)**

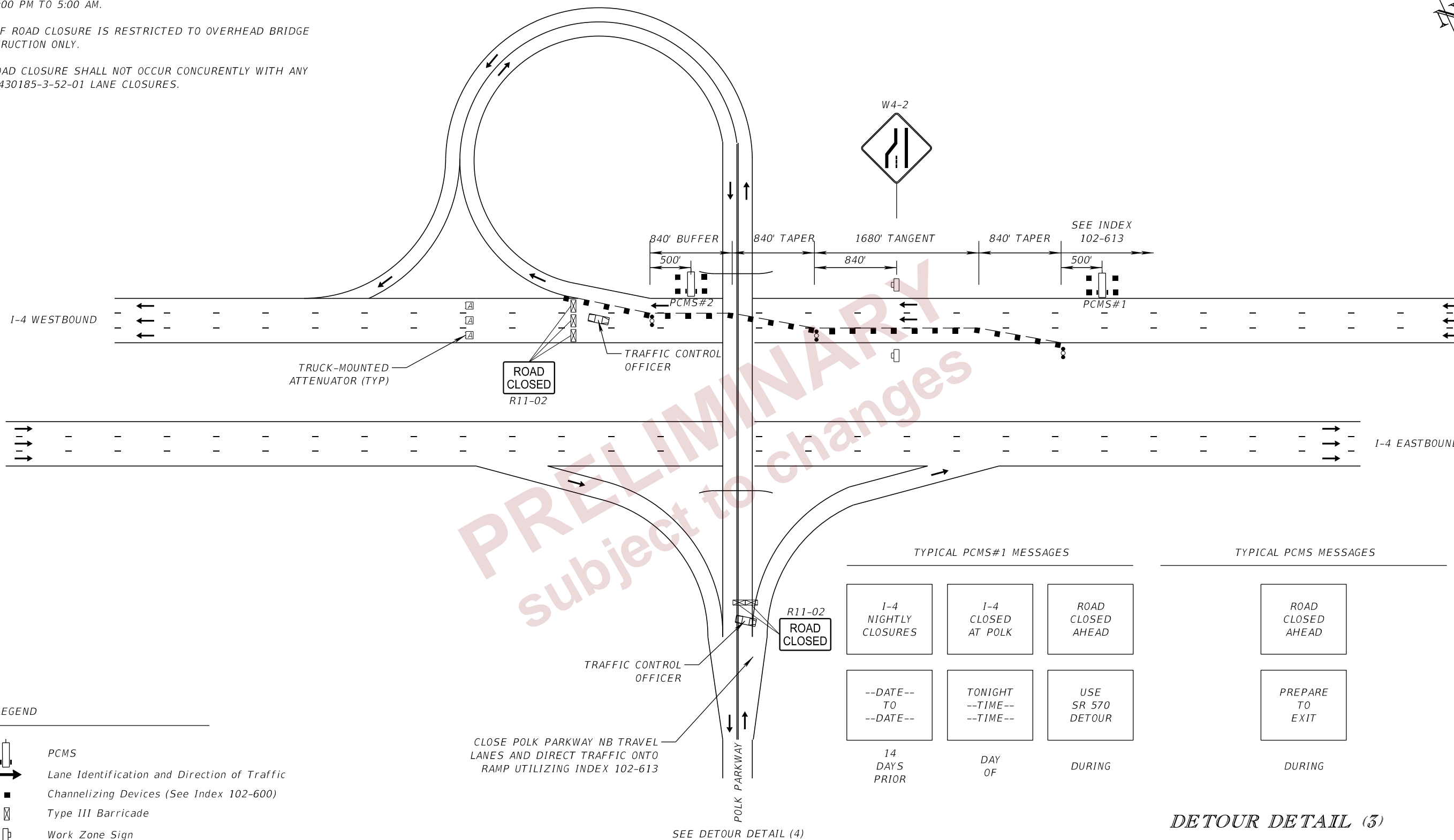
9/20/2023 3:36:45 PM williamson P:\08RD\_FDOT\_Works\sets\FDOT\20121485201\_Roadway\TCPLRD01.dgn

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REVISIONS		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		SR 400	POLK	201214-8-52-01	81
<b>TEMP. TRAFFIC CONTROL PLAN (05)</b>									

ROAD CLOSURE NOTES

1. REFER TO STANDARD PLANS INDEX 102-613 FOR DOUBLE LANE CLOSURE ADVANCE SIGNING AND ADDITIONAL DETAILS.
2. ROAD CLOSURES AND DETOUR ARE ALLOWED ONLY BETWEEN THE HOURS OF 11:00 PM TO 5:00 AM.
3. USE OF ROAD CLOSURE IS RESTRICTED TO OVERHEAD BRIDGE CONSTRUCTION ONLY.
4. I-4 ROAD CLOSURE SHALL NOT OCCUR CONCURRENTLY WITH ANY FPID 430185-3-52-01 LANE CLOSURES.



PRELIMINARY  
 subject to changes

LEGEND

- PCMS
- Lane Identification and Direction of Traffic
- Channelizing Devices (See Index 102-600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Panel

TYPICAL PCMS#1 MESSAGES			TYPICAL PCMS MESSAGES
I-4 NIGHTLY CLOSURES	I-4 CLOSED AT POLK	ROAD CLOSED AHEAD	ROAD CLOSED AHEAD
--DATE-- TO --DATE--	TONIGHT --TIME-- --TIME--	USE SR 570 DETOUR	PREPARE TO EXIT
14 DAYS PRIOR	DAY OF	DURING	DURING

**DETOUR DETAIL (3)  
(WESTBOUND I-4 CLOSURE)**

9/20/2023 3:36:46 PM williamson c:\pwworking\acme-rw-01\dms19856\TCPLR001.dgn

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMP. TRAFFIC CONTROL PLAN (06)	SHEET NO.  82
DATE	DESCRIPTION	DATE	DESCRIPTION	RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								SR 400		



**DETOUR OBJECTIVE:**

I-4 WB:            DETOUR TO POLK PKWY / RIGHT AT UNIVERSITY BLVD / RIGHT AT SR 33 TO GET TO I-4 WB RE-ENTRY  
 POLK PKWY NB:   LEFT AT UNIVERSITY BLVD, DETOUR TO SR 33 NB TO GET TO I-4 WB  
 WB PACE ROAD:   DETOUR TO SR 33 NB TO GET TO I-4 WB

NOTE: CONTRACTOR SHALL COORDINATE WITH FLORIDA'S TURNPIKE ENTERPRISE TURKEY LAKE TMC AT (407) 264-3363  
 2 WEEKS PRIOR TO DETOUR START.

PLACE 1 PCMS EACH AT THE FOLLOWING LOCATIONS:

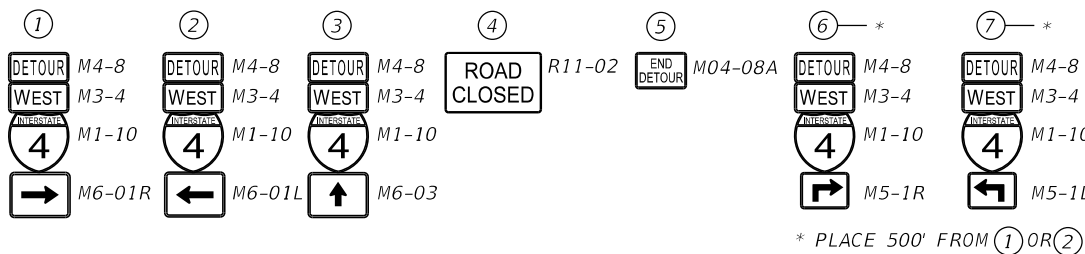
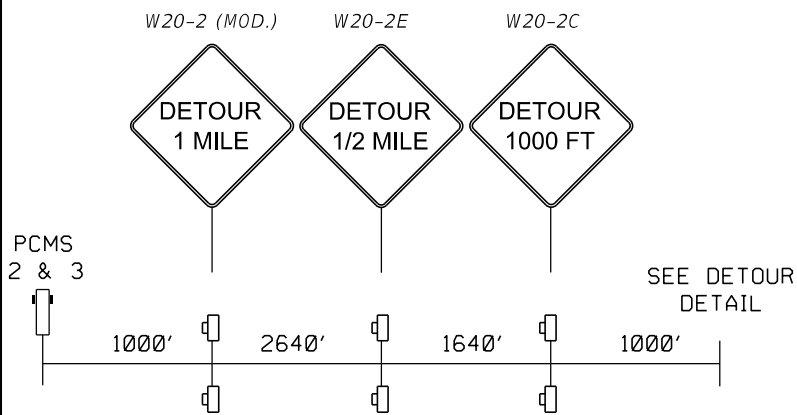
- PCMS-1 ON SR 400 (I-4) JUST EAST OF I-4 WB OFF RAMP (SEE TRAFFIC CONTROL DETAIL)
- PCMS-2 ON POLK PKWY NB JUST SOUTH OF UNIVERSITY BLVD
- PCMS-3 ON PACE ROAD WB JUST EAST OF POLK PKWY



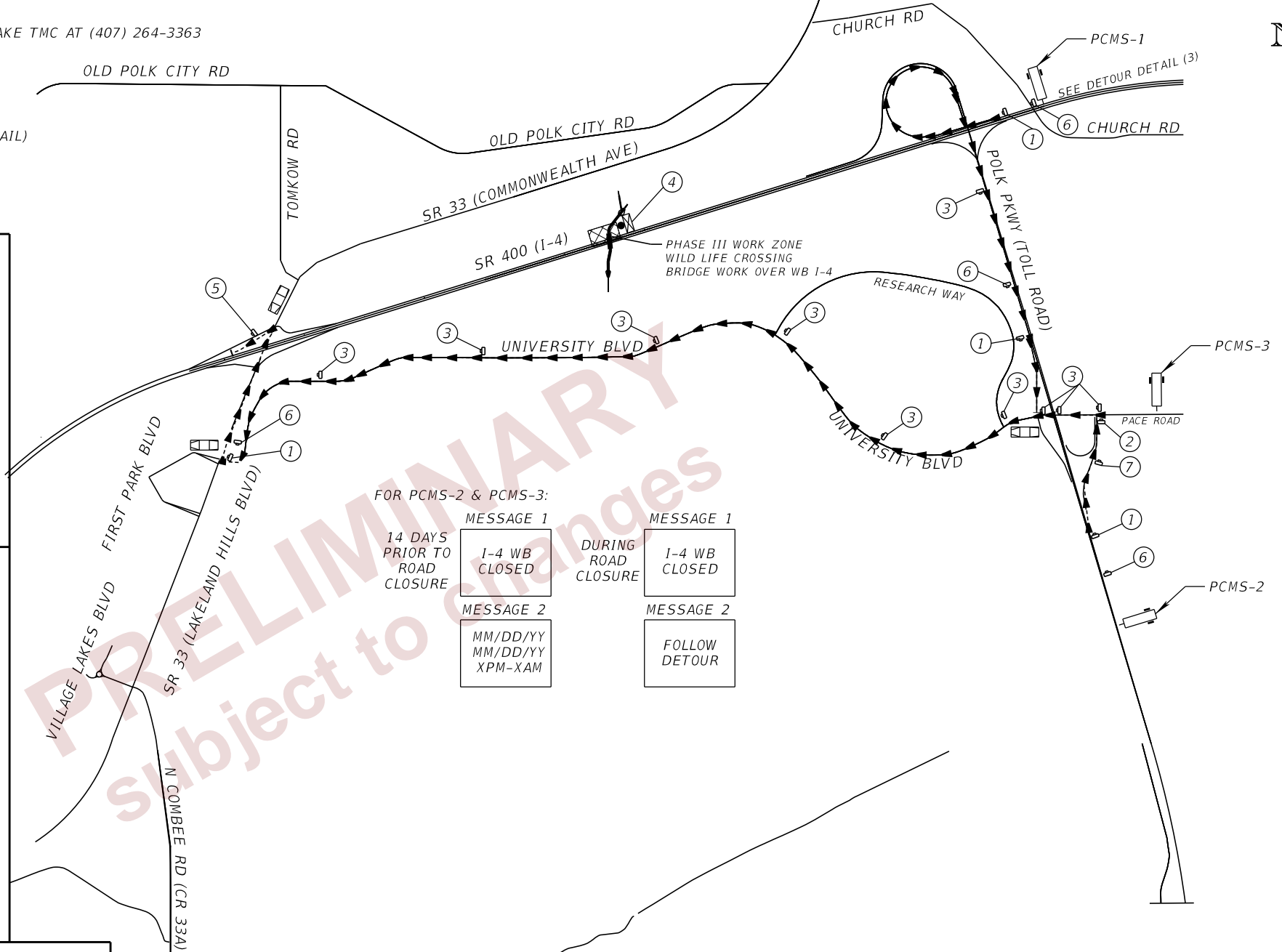
**LEGEND**

- Work Zone Sign
- Type III Barricade
- Portable Changeable (Variable) Message Sign
- Work Zone
- DETOUR ROUTE
- Law Enforcement Officer

**PCMS DETAIL**



\* PLACE 500' FROM ① OR ②



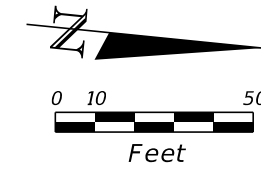
FOR PCMS-2 & PCMS-3:  
 14 DAYS PRIOR TO ROAD CLOSURE  
 MESSAGE 1: I-4 WB CLOSED  
 MESSAGE 2: MM/DD/YY, MM/DD/YY, XPM-XAM  
 DURING ROAD CLOSURE  
 MESSAGE 1: I-4 WB CLOSED  
 MESSAGE 2: FOLLOW DETOUR

**DETOUR DETAIL (4)  
 (WESTBOUND I-4 CLOSURE)**

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	TEMP. TRAFFIC CONTROL PLAN (07)		
				RYAN J. WILLIAMSON, P.E. LICENSE NUMBER 81421 BURGESS & NIPLE, INC. 1800 PEMBROOK DRIVE, SUITE 265 ORLANDO, FL 32810	SR 400	POLK		201214-8-52-01	83



BEGIN PROJECT  
BEGIN CONSTRUCTION  
STA. 13+41.00

230 KV OE / TO BE RELOCATED (RAISED)  
OUC TRANSMISSION LINE

EXISTING OUC EASEMENT

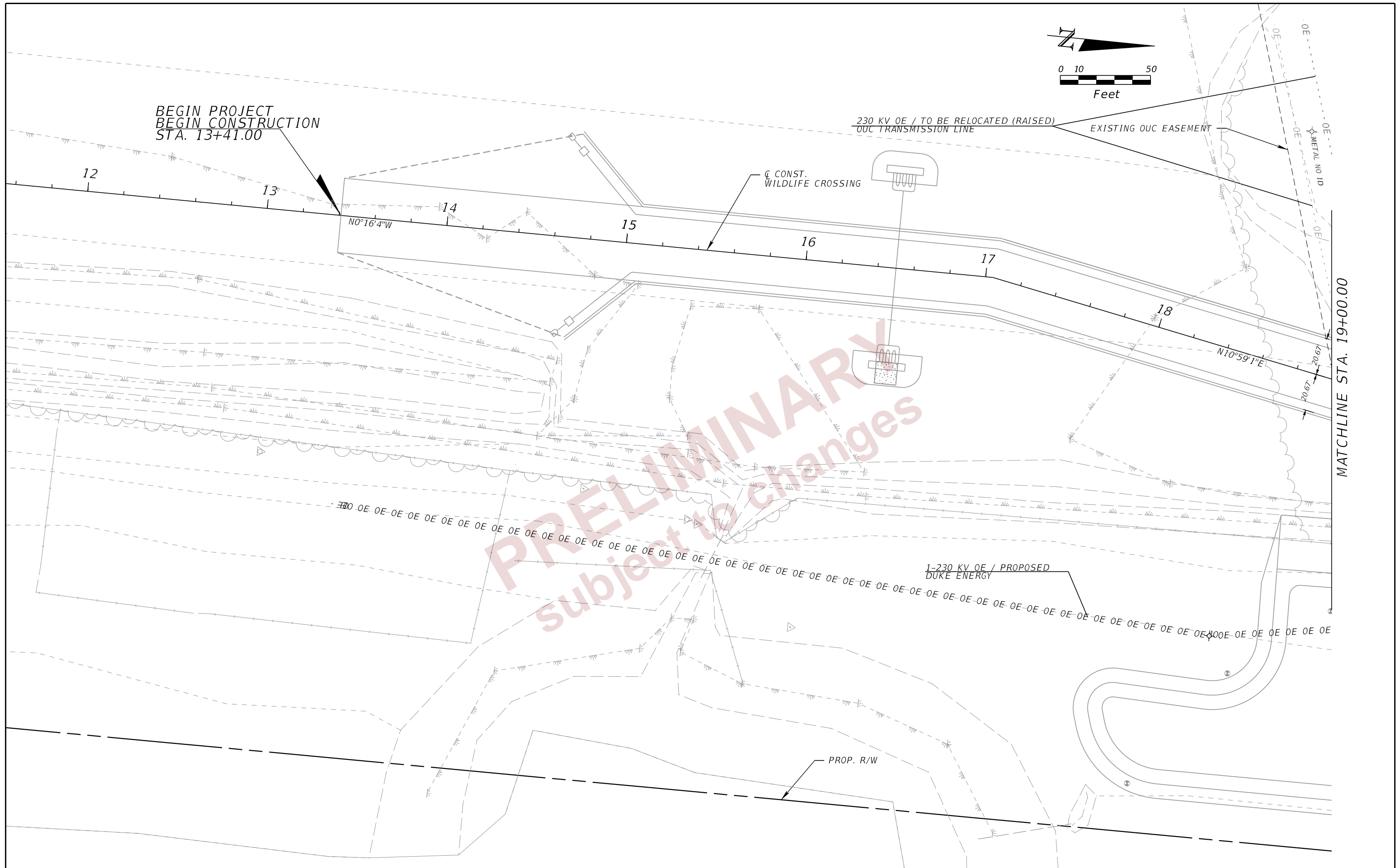
CONST. WILDLIFE CROSSING

MATCHLINE STA. 19+00.00

PRELIMINARY  
 subject to changes

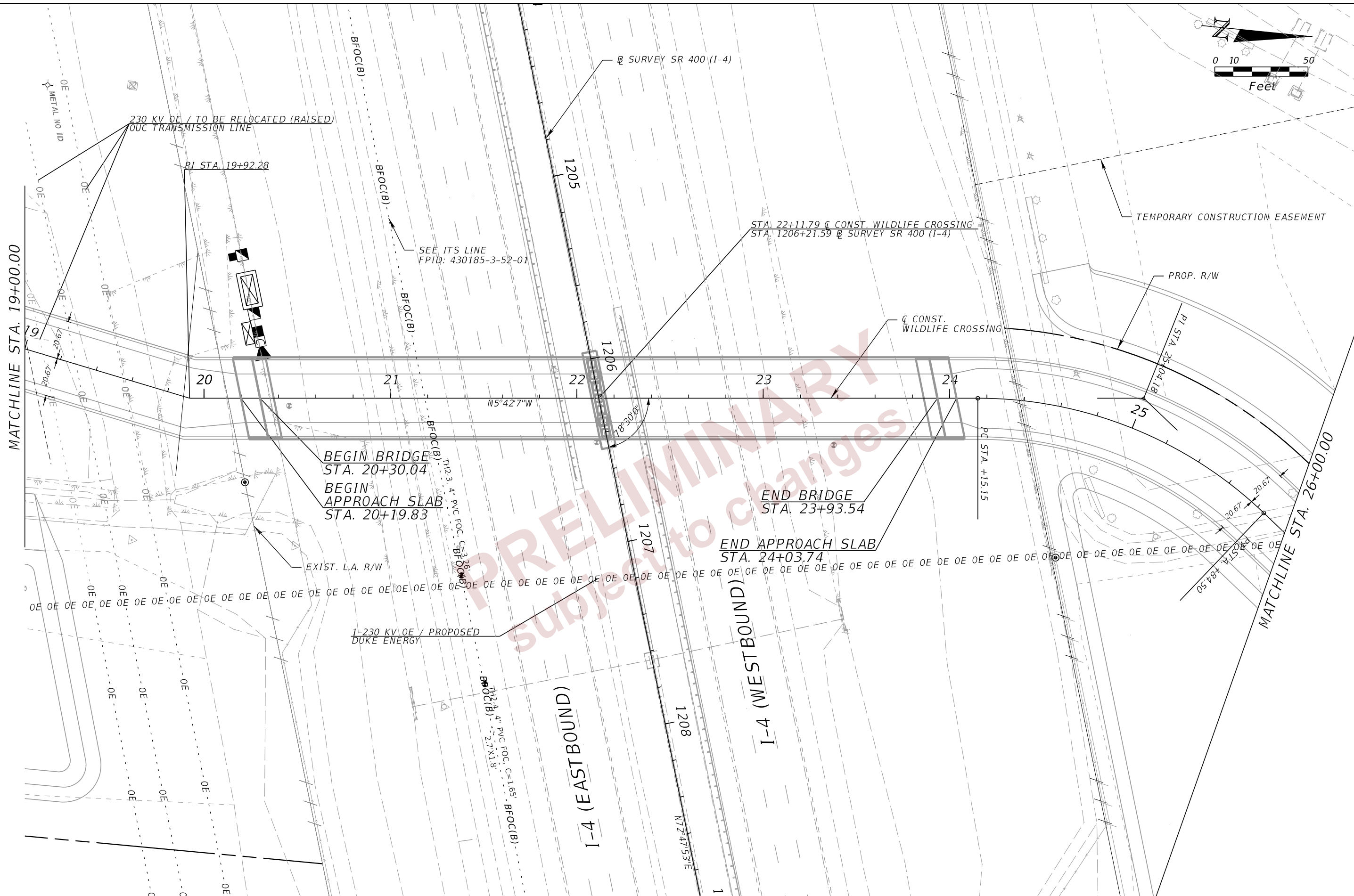
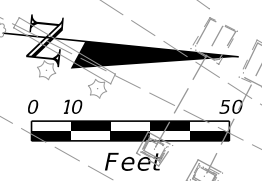
1-230 KV OE / PROPOSED  
DUKE ENERGY

PROP. R/W



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>UTILITY ADJUSTMENTS (01)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		<b>84</b>
								SR 400		

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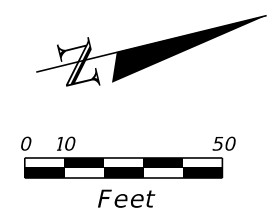
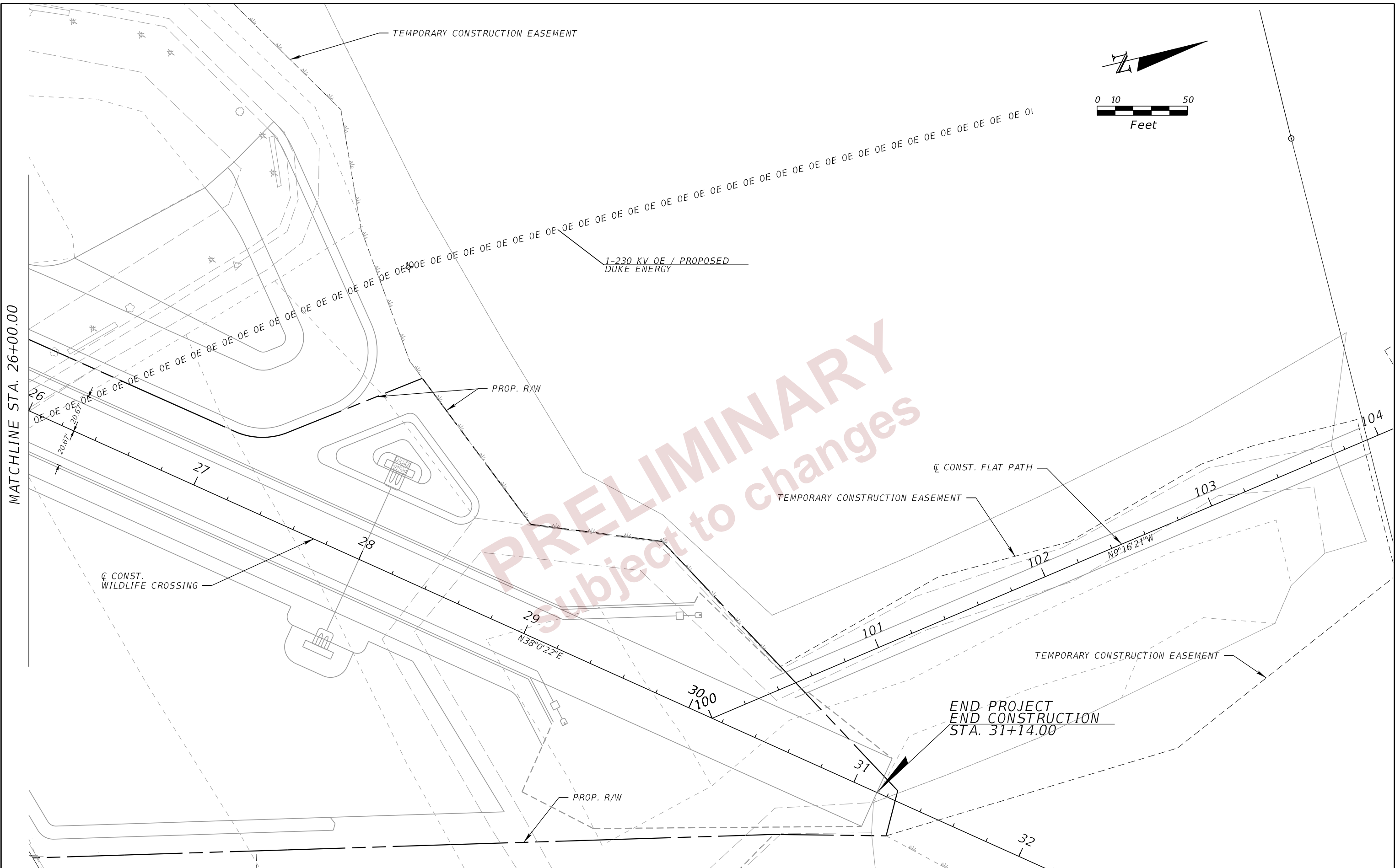


DATE		REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA			SHEET NO.
DESCRIPTION		DESCRIPTION		DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		DEPARTMENT OF TRANSPORTATION			
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	85
						SR 400	POLK	201214-8-52-01	

**UTILITY ADJUSTMENTS (02)**

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MATCHLINE STA. 26+00.00

PRELIMINARY  
Subject to changes

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REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>UTILITY ADJUSTMENTS (03)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		86
							SR 400	POLK	201214-8-52-01		

UTILITY/AGENCY OWNERS: COMPANY  
 ORLANDO UTILITIES COMMISSION  
 TRANSCORE FDOT D-7 ITS  
 DUKE ENERGY (TRANSMISSION)

CONTACT TELEPHONE NUMBERS  
 ADONIS WILLIS 407-434-4134  
 KEVIN MCCAFFREY 813-620-3983 X320  
 TIFFANY SCHAEFFER 843-412-0784

GENERAL NOTES:  
 1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

Test Hole Date	Test Hole Number	Utility Size, Material & Type (Size measured in inches and is O.D.)	Station/Northing	Offset/Easting	Ground Elevation	Manual Depth (Top)	Utility Elevation (Top)	Offset From	Cross Sectional View	Utility Direction	UAO Owner	ID'd By	Surface Type	Pavement Thickness (Inches)
10/24/16	TH2-1	4" PVC FOC	1189+01.46	89.66	139.01	3.70	135.31	32	○	↔	FDOT	24	NG	N/A
10/24/16	TH2-2	4" PVC FOC	1190+32.42	91.34	138.99	3.56	135.43	32	○	↔	FDOT	24	NG	N/A
10/31/16	TH2-3	4" PVC FOC	1386175.75	697196.55	138.75	3.26	135.49	32	○	↔	FDOT	24	NG	N/A
10/31/16	TH2-4	4" PVC FOC	1386194.06	697253.29	139.08	1.65	137.43	32	○	↔	FDOT	24	NG	N/A

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			UTILITY ADJUSTMENTS (04)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEBANANDA PANIGRAHI, P.E. LICENSE NUMBER 68318 H. W. LOCHNER 4300 W. CYPRESS STREET, SUITE 500 TAMPA, FLORIDA 33607		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		87
						SR 400	POLK	201214-8-52-01		