

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKINGS PLANS
SIGNALIZATION PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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4	TYPICAL SECTION
5	TYPICAL SECTION DETAILS
6	MILLING & RESURFACING DETAILS
7 - 8	SUMMARY OF QUANTITIES
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99 - 160	CROSS SECTIONS
161 - 162	STORMWATER POLLUTION PREVENTION PLAN
163	TRAFFIC CONTROL PLANS GENERAL NOTES
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CTL 1 - CTL 6	PROJECT NETWORK CONTROL
GR-1	ROADWAY SOILS SURVEY
UTV-1 - UTV-3	TABLE OF VERIFIED UTILITIES

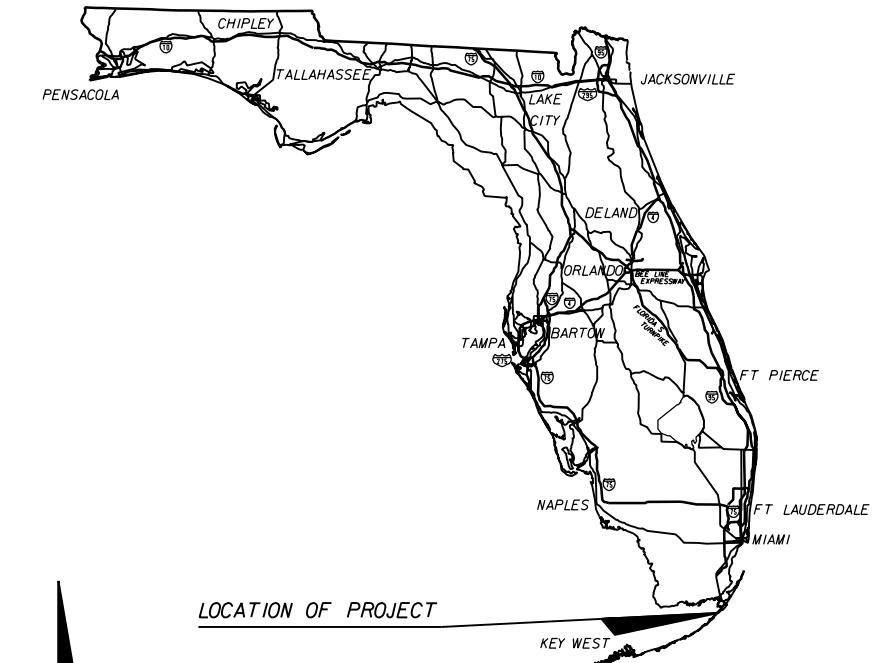
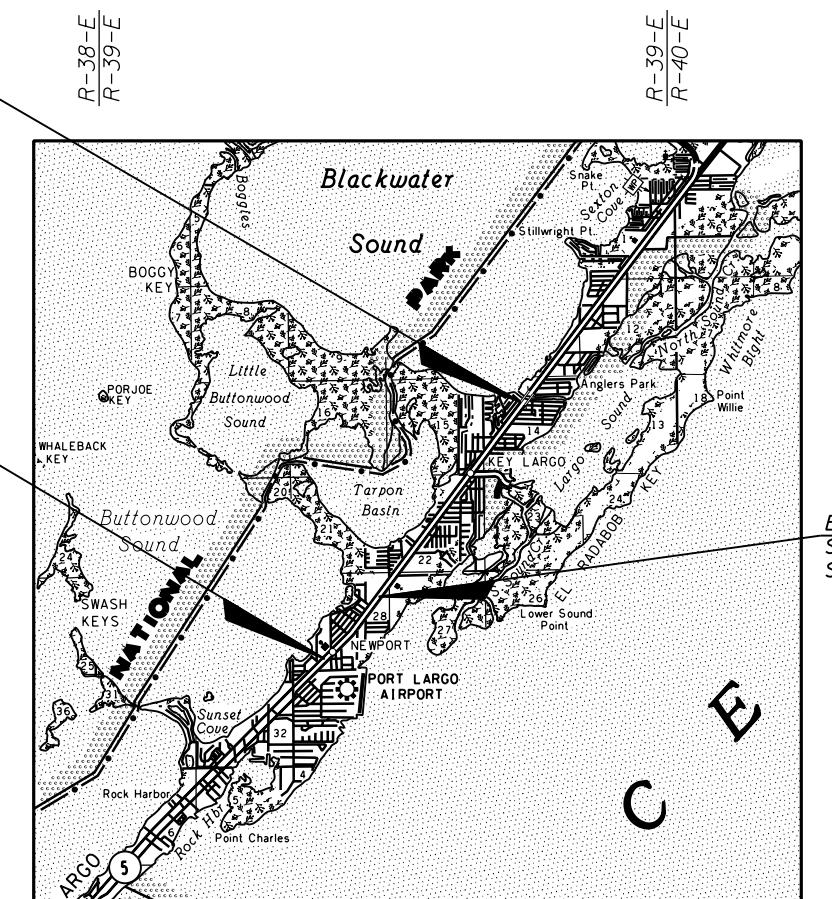
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS FISCAL YEAR 2012 / 2013,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2012,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS REVISIONS: 01/01/2012
For Design Standards Revisions click on
"Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

FINANCIAL PROJECT ID 419859-1-52-01
MONROE COUNTY (90060)

STATE ROAD NO. 5

US 1/OVERSEAS HWY FROM NORTH OF ATLANTIC AVENUE
TO HIALEAH LANE



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
FRANK PANELLAS, P.E.
METRIC ENGINEERING, INC.
13940 S.W. 136th STREET
MIAMI, FLORIDA 33186
TEL. (305) 235-5098

PLANS PREPARED BY:



- ENGINEERS
- PLANNERS
- SURVEYORS

METRIC ENGINEERING, INC.
13940 S.W. 136th STREET
SUITE 200
MIAMI, FLORIDA 33186
TEL. (305) 235-5098
FAX. (305) 251-5894
VENDOR # F-59-1685550
FLORIDA CERT. NO. EB-0002294

NOTE: THIS PROJECT TO BE LET TO CONTRACT
WITH FINANCIAL PROJECT ID 419846-1-52-01

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

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	18,620	3.526
BRIDGES		
NET LENGTH OF PROJECT	18,620	3.526
EXCEPTIONS		
GROSS LENGTH OF PROJECT	18,620	3.526

FDOT PROJECT MANAGER: CHRISTOPHER TAVELLA, P.E.

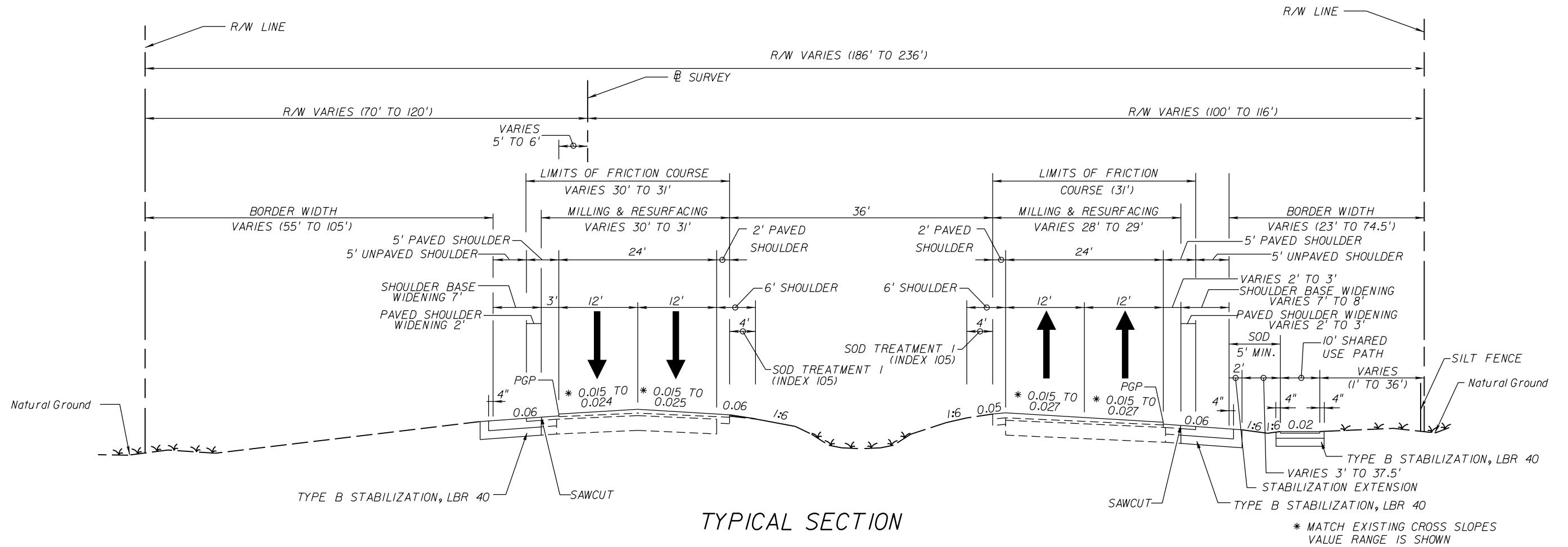
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: FRANK PANELLAS, PE

P.E. NO. 59448

FISCAL YEAR	SHEET NO.
13	1

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MILLING (MAINLINE & SHOULders)

MILL EXISTING ASPHALT PAVEMENT (2" AVG. DEPTH) (UNIFORM DEPTH)

RESURFACING (MAINLINE & SHOULders)

TYPE SP STRUCTURAL COURSE (TRAFFIC C)(1-1/2")
AND FRICTION COURSE FC-5 (3/4") (RUBBER).

TRAFFIC DATA

CURRENT YEAR = 2009 AADT = 32,000
ESTIMATED OPENING YEAR = 2013 AADT = 32,200
ESTIMATED DESIGN YEAR = 2033 AADT = 33,500
 $K = 10.24\%$. $D = 50\%$. $T = 10.24\%$. (24 HOUR)
DESIGN HOUR T = 5.12%
DESIGN SPEED = 50 MPH
POSTED SPEED = 45 MPH

NEW SHOULDER PAVEMENT / WIDENING

OPTIONAL BASE GROUP 4 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C)(1-1/2") AND
FRICTION COURSE FC-5 (3/4") (RUBBER)

BIAXIAL GEOGRID SHALL BE PLACED WHERE MATERIALS
A-4 & A-8 ARE ENCOUNTERED PER GEOTECHNICAL REPORT.
GEOGRID SHALL EXTEND 50' BEYOND EACH LOCATION.

ROADWAY WIDENING

OPTIONAL BASE GROUP 10 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C)(3") AND
FRICTION COURSE FC-5 (3/4") (RUBBER)

TURNOUT PAVEMENT ***

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C)(1")

SHARED USE PATH PAVEMENT RECONSTRUCTION

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C)(1")

*** ALL DRIVEWAYS CONNECTING TO US-I NORTHBOUND
SHALL BE RECONSTRUCTED BETWEEN THE EDGE
OF THE NEW PAVED SHOULDER AND THE R/W LINE.

REVISIONS

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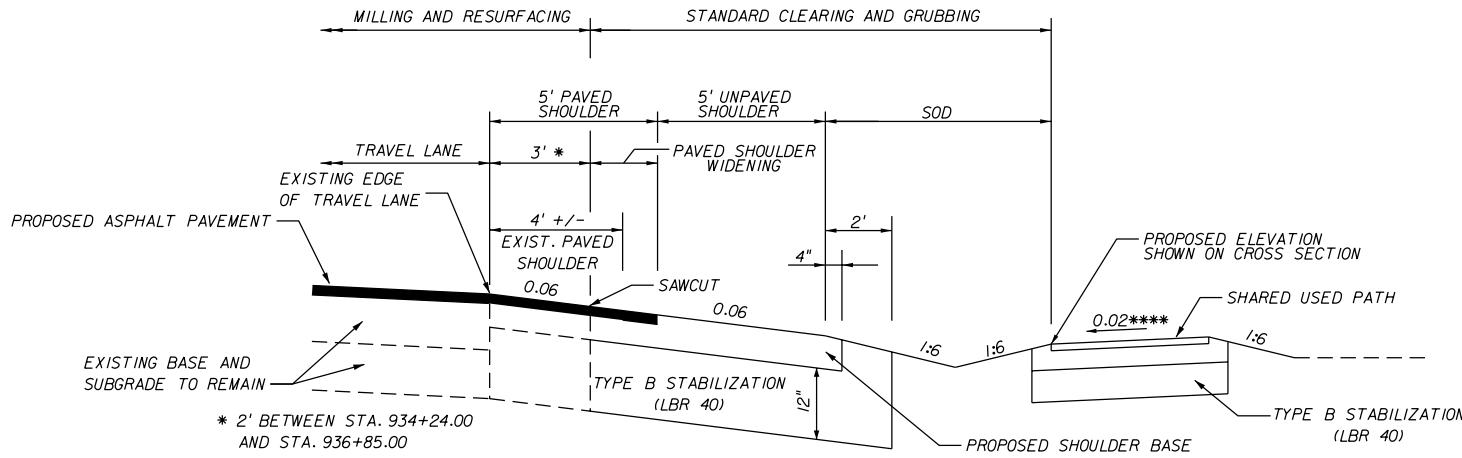
PREPARED BY:
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

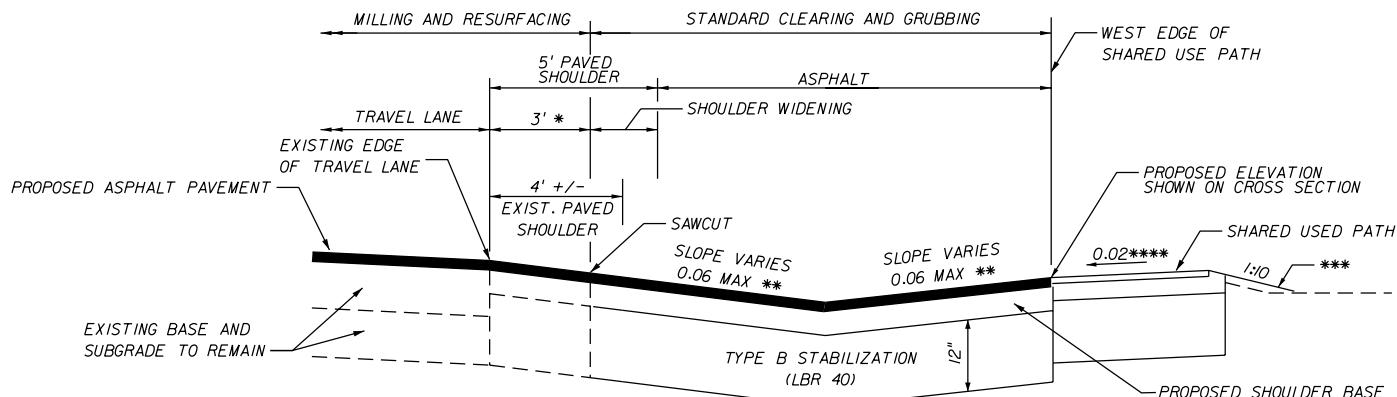
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

TYPICAL SECTION

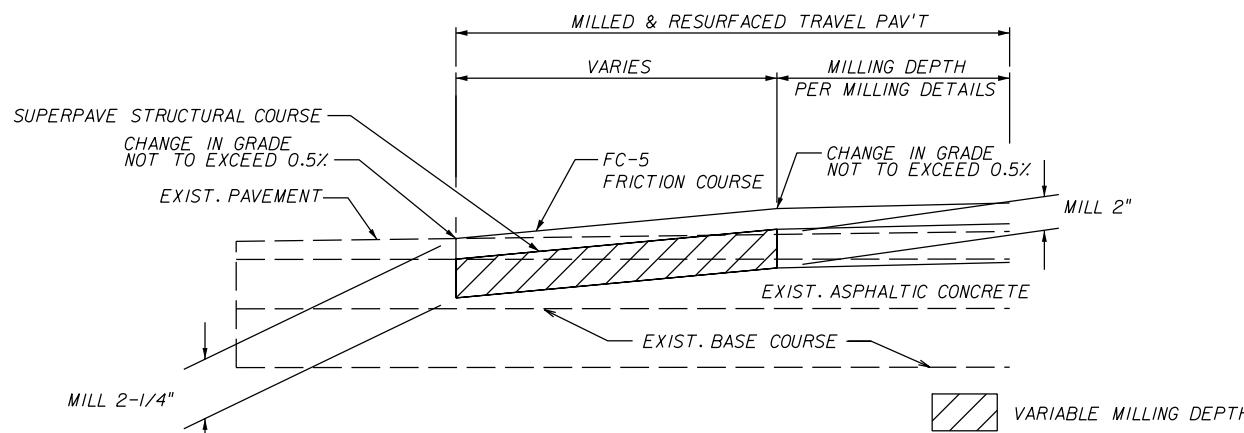
SHEET NO.
4



SHOULDER WIDENING DETAIL



SHOULDER WIDENING DETAIL AT TURNOUTS



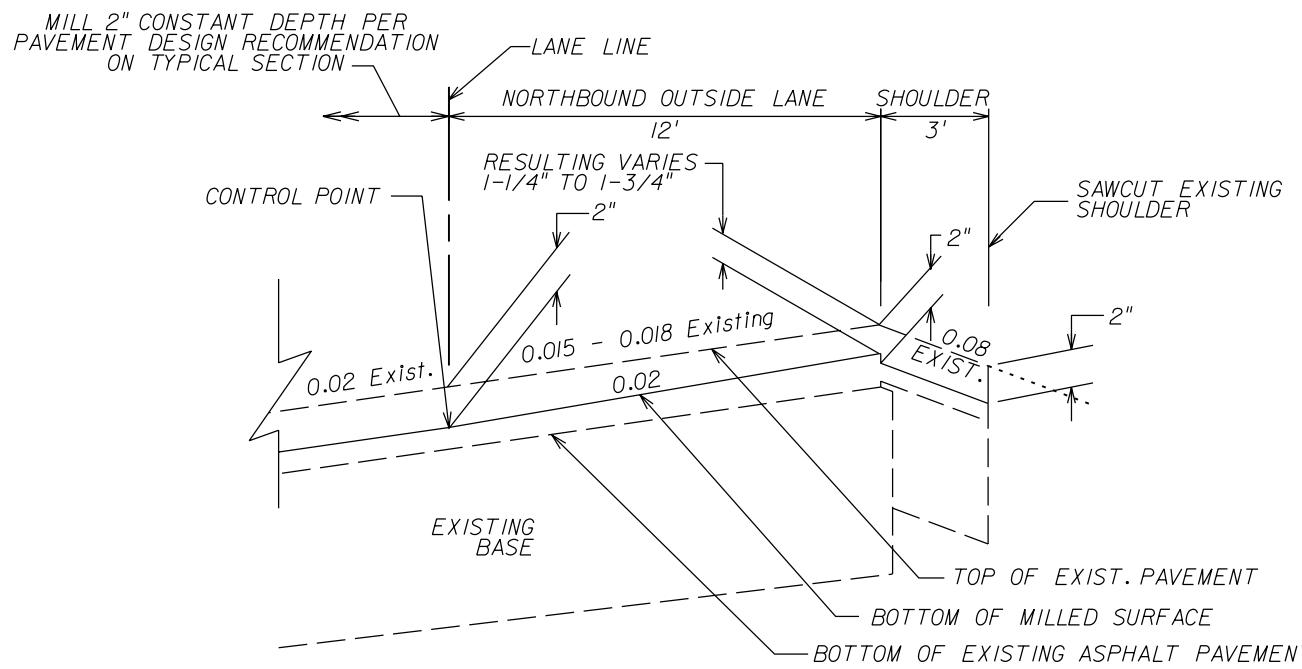
**MILLING AND RESURFACING DETAIL
FOR CONNECTION TO EXISTING PAVEMENT**

REVISIONS			
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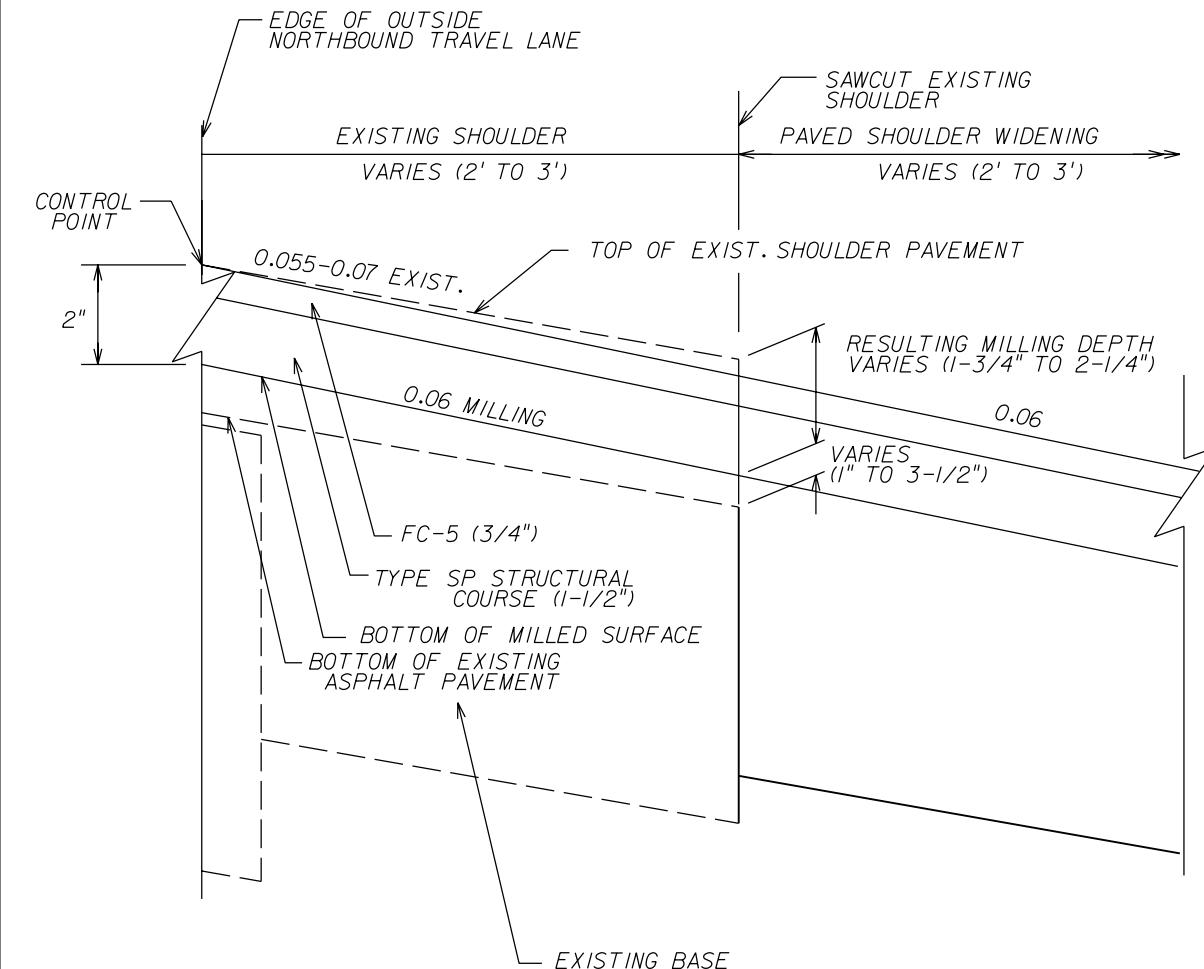
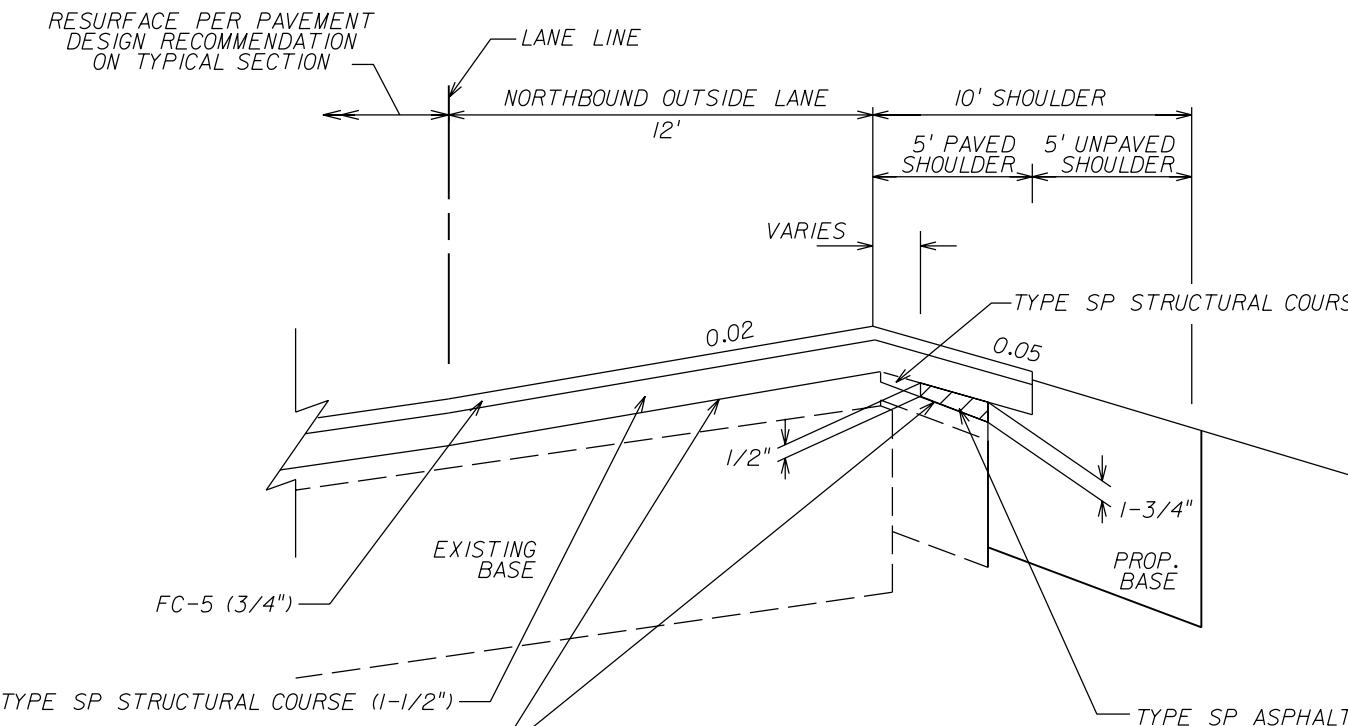
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ROAD NO. COUNTY FINANCIAL PROJECT ID
5 MONROE 419859-1-52-01

TYPICAL SECTION DETAILS



MILLING DETAIL NORTHBOUND OUTSIDE LANE AND SHOULDER (STA. 839+50.00 TO STA. 847+50.00)



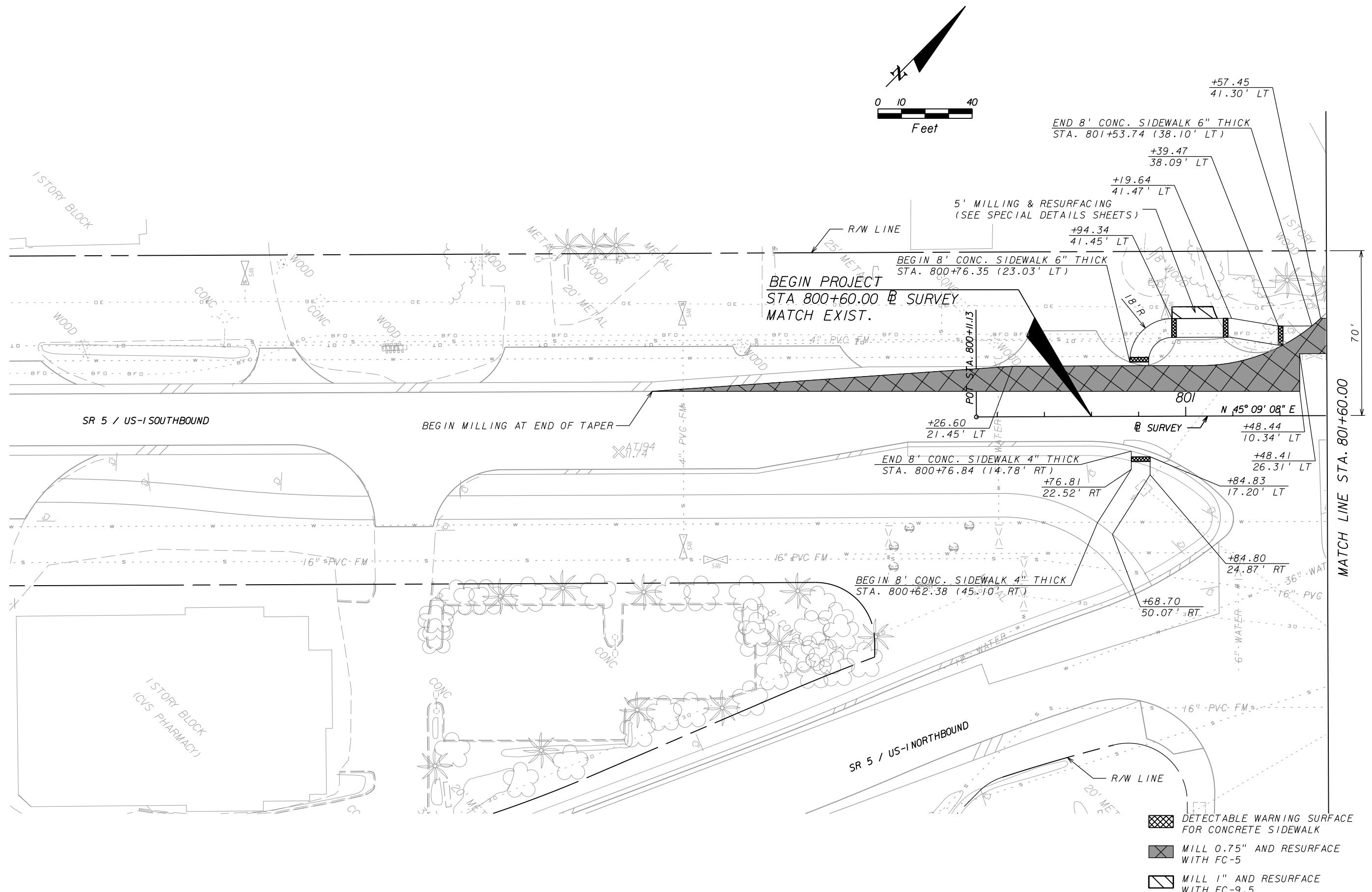
MILLING AND RESURFACING DETAIL NORTHBOUND OUTSIDE SHOULDER (STA. 801+86.25 TO STA. 839+50.00, AND STA. 847+50.00 TO STA. 986+80.00)

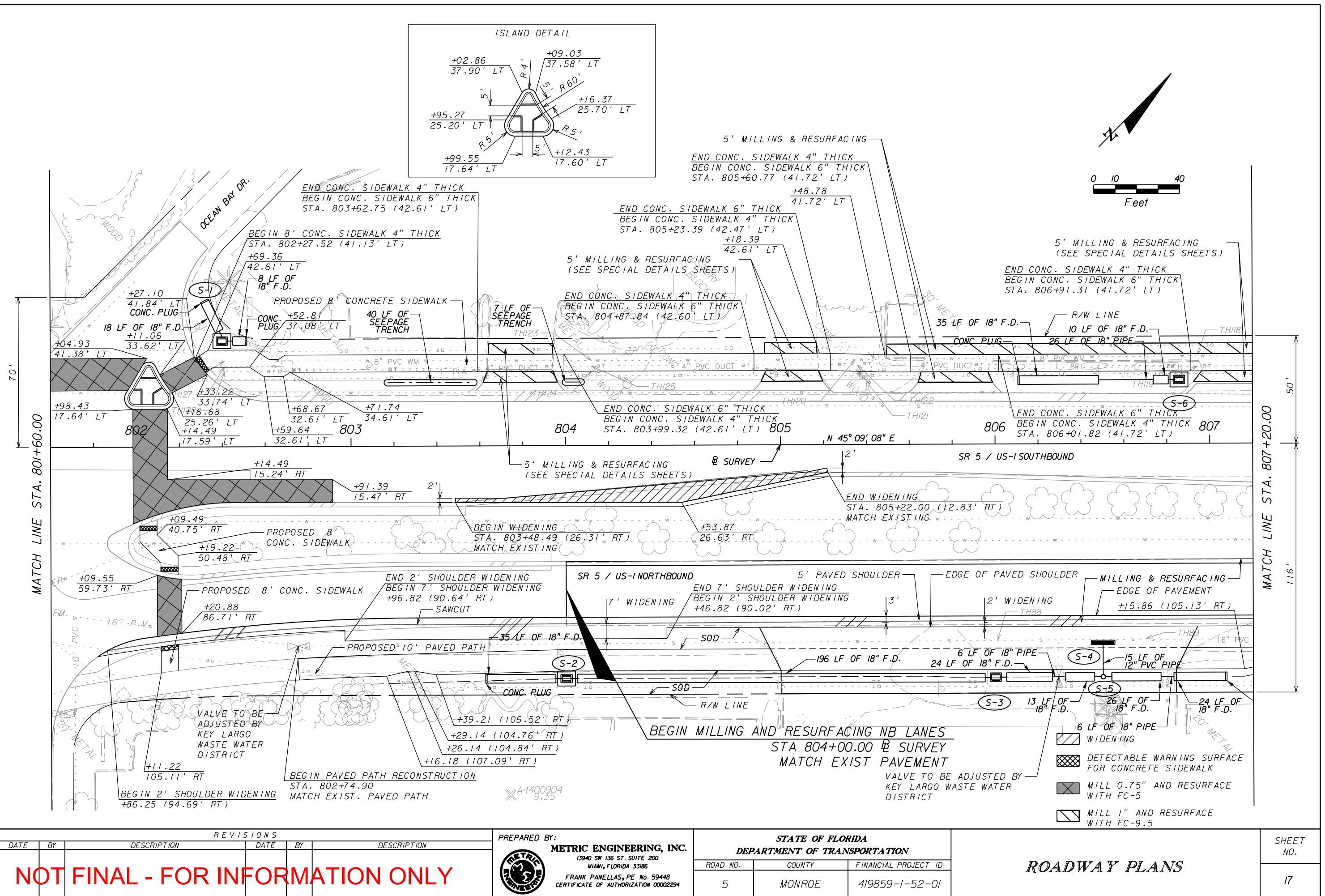
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5 MONROE 419859-1-52-01

MILLING & RESURFACING DETAILS





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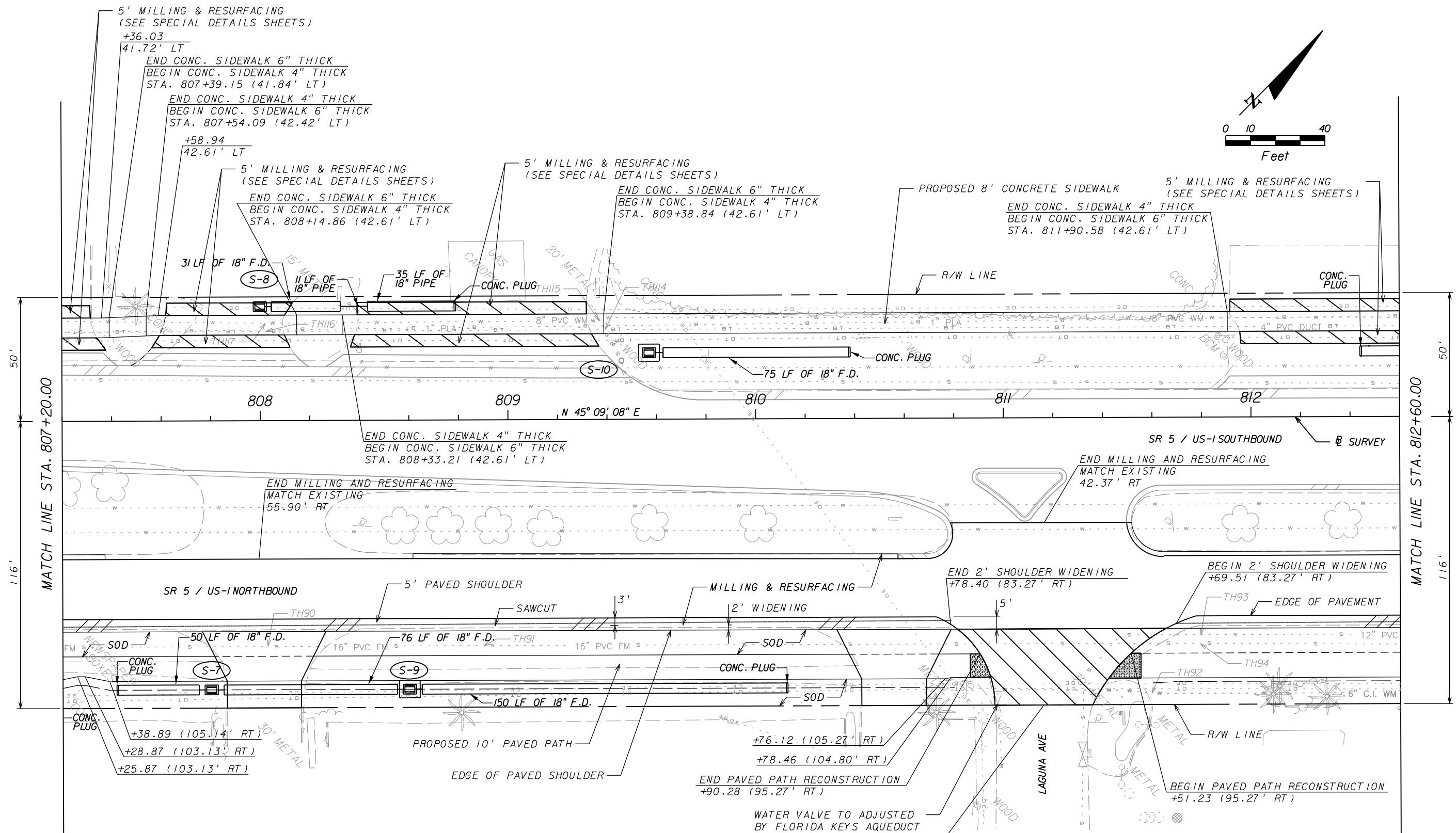


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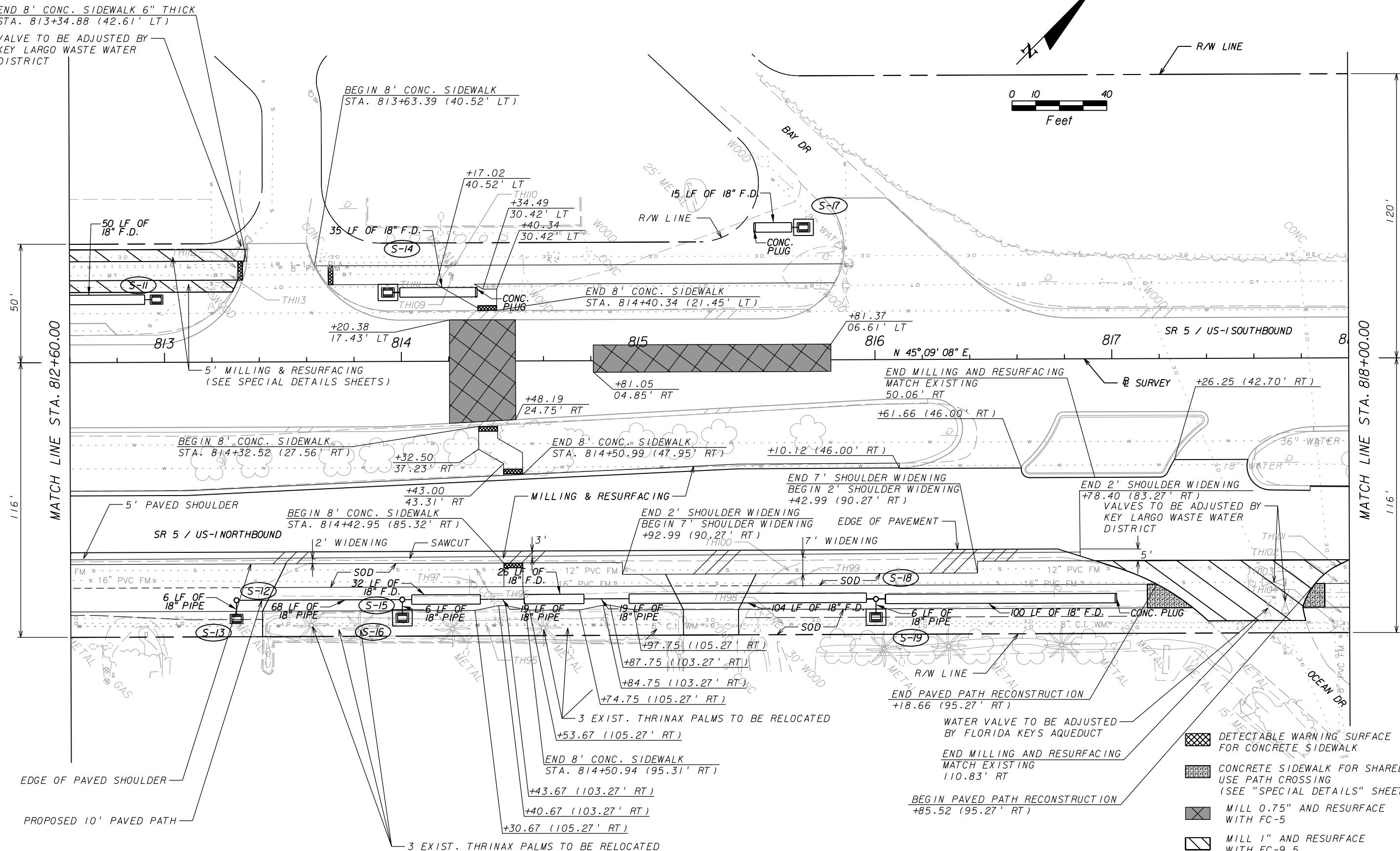
NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

ROADWAY PLANS

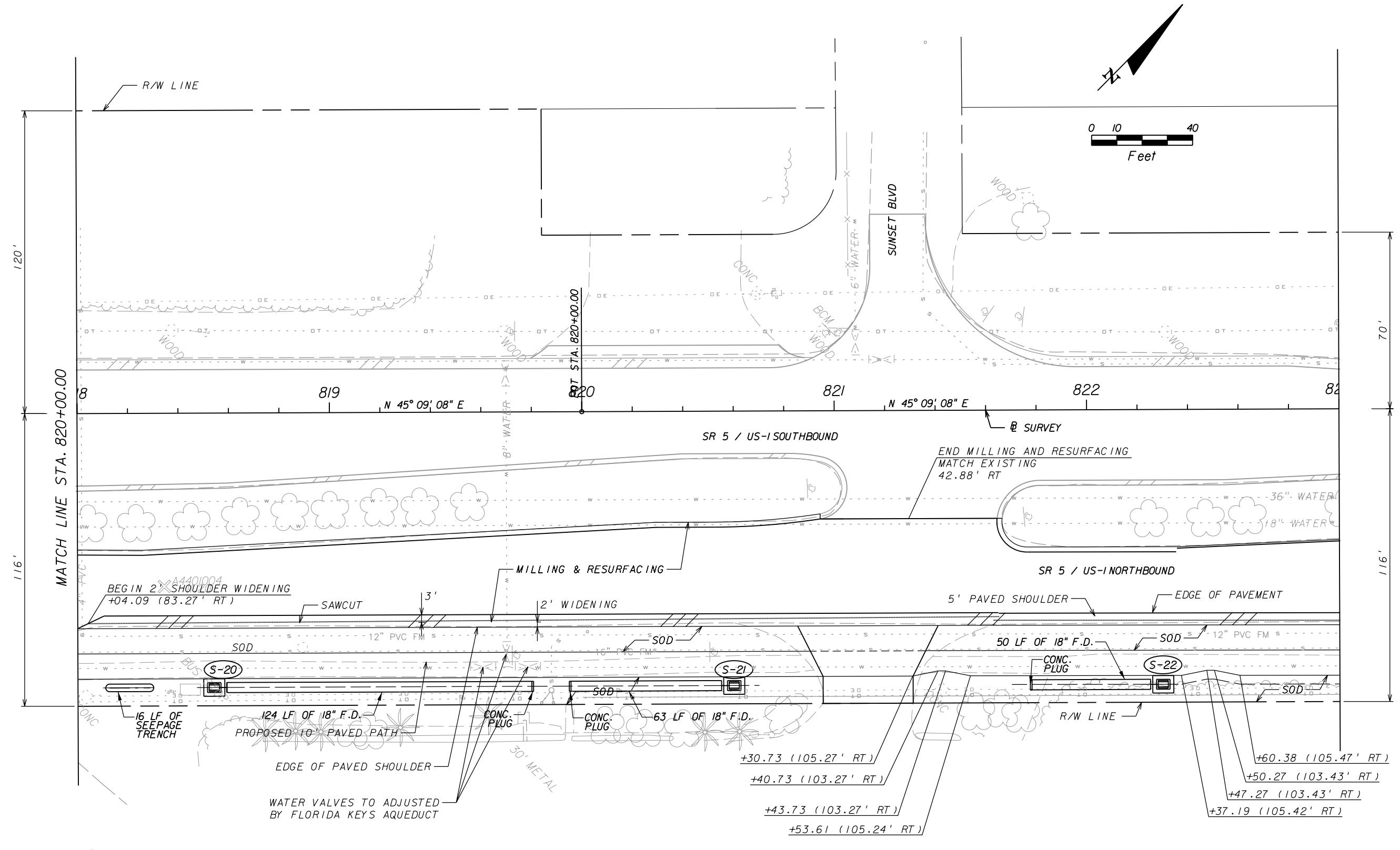
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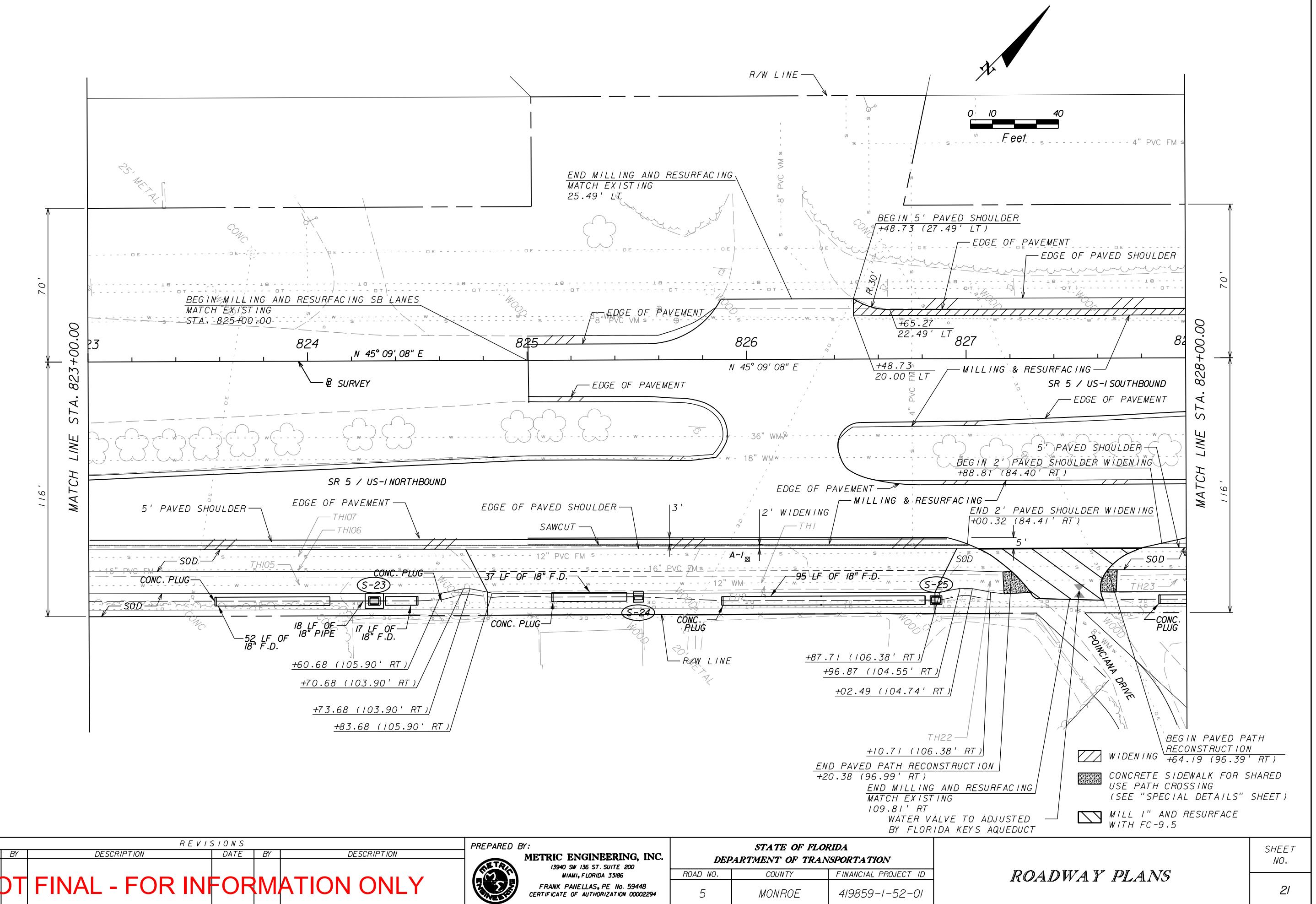


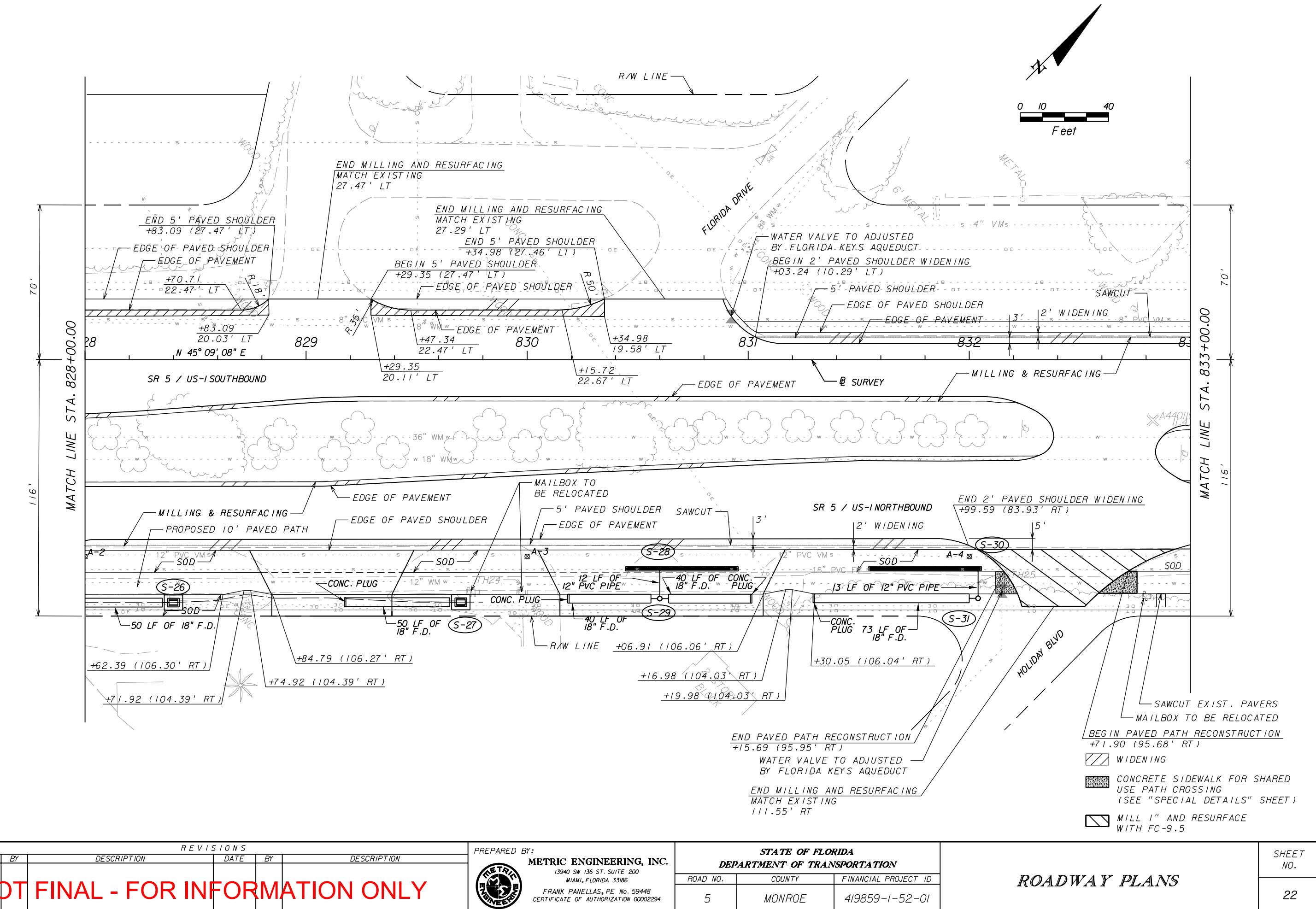
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						METRIC ENGINEERING, INC.	ROAD NO. COUNTY FINANCIAL PROJECT ID		19

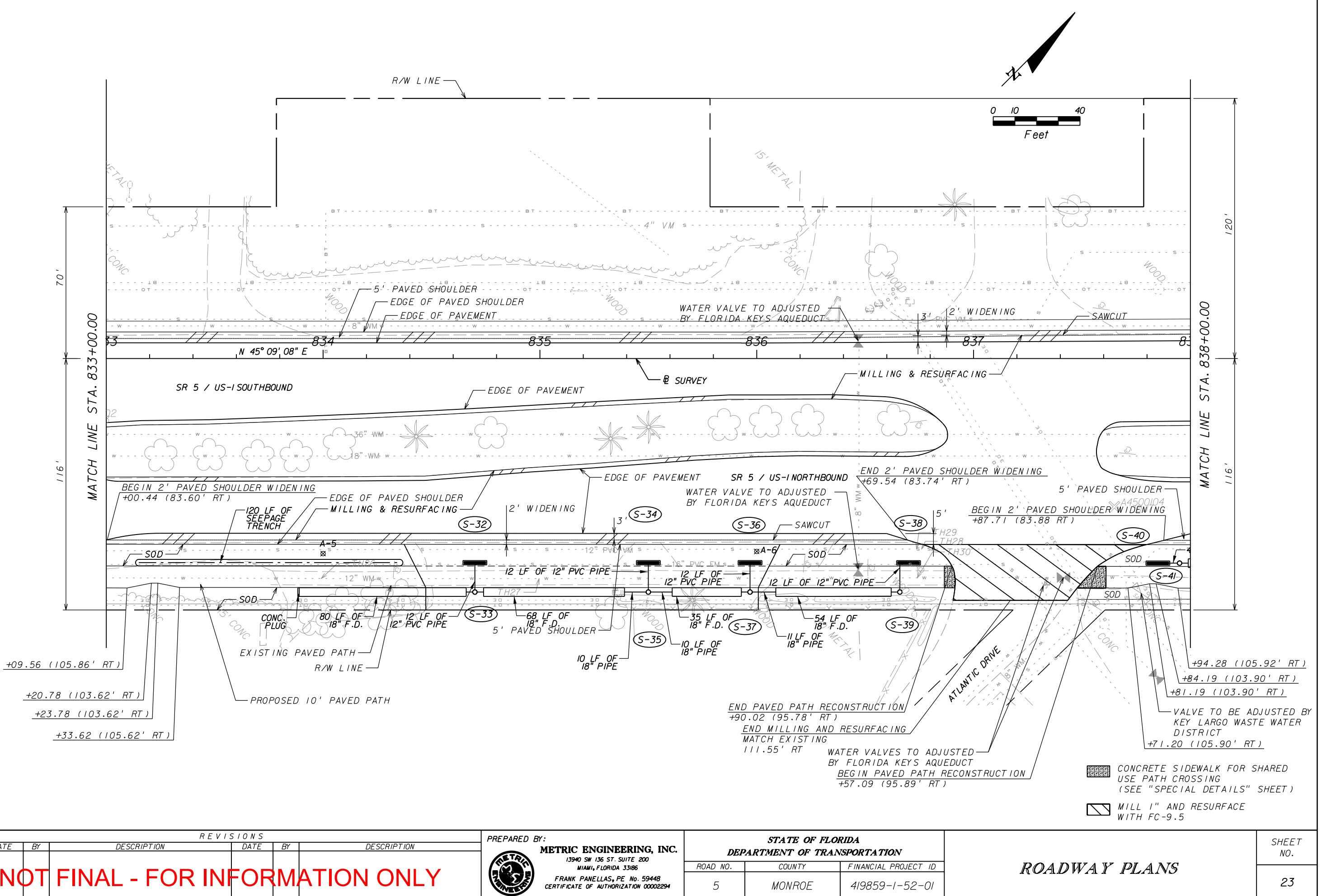


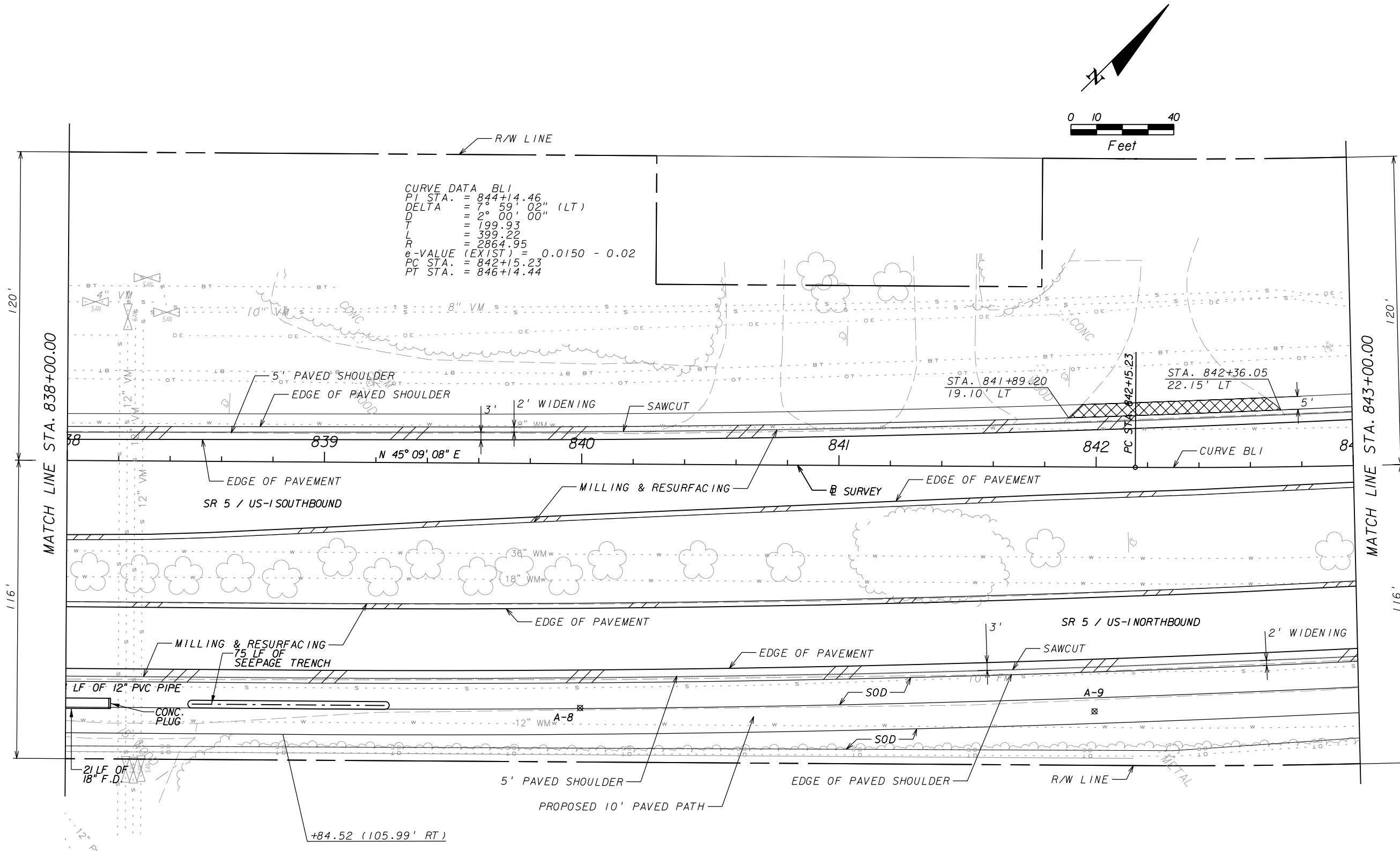
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NOT FINAL - FOR INFORMATION ONLY						METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	5	MONROE	419859-1-52-01	ROADWAY PLANS	20

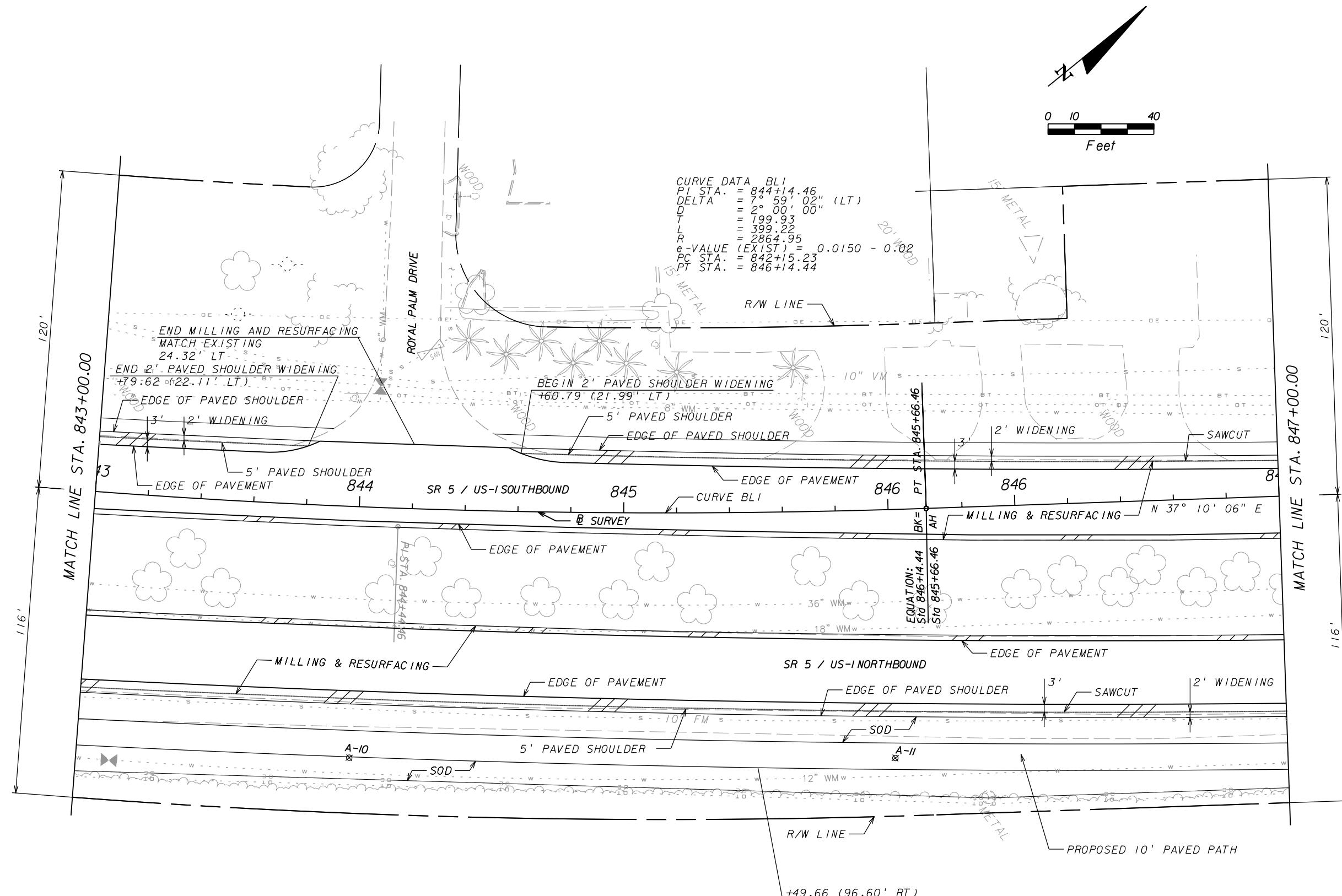








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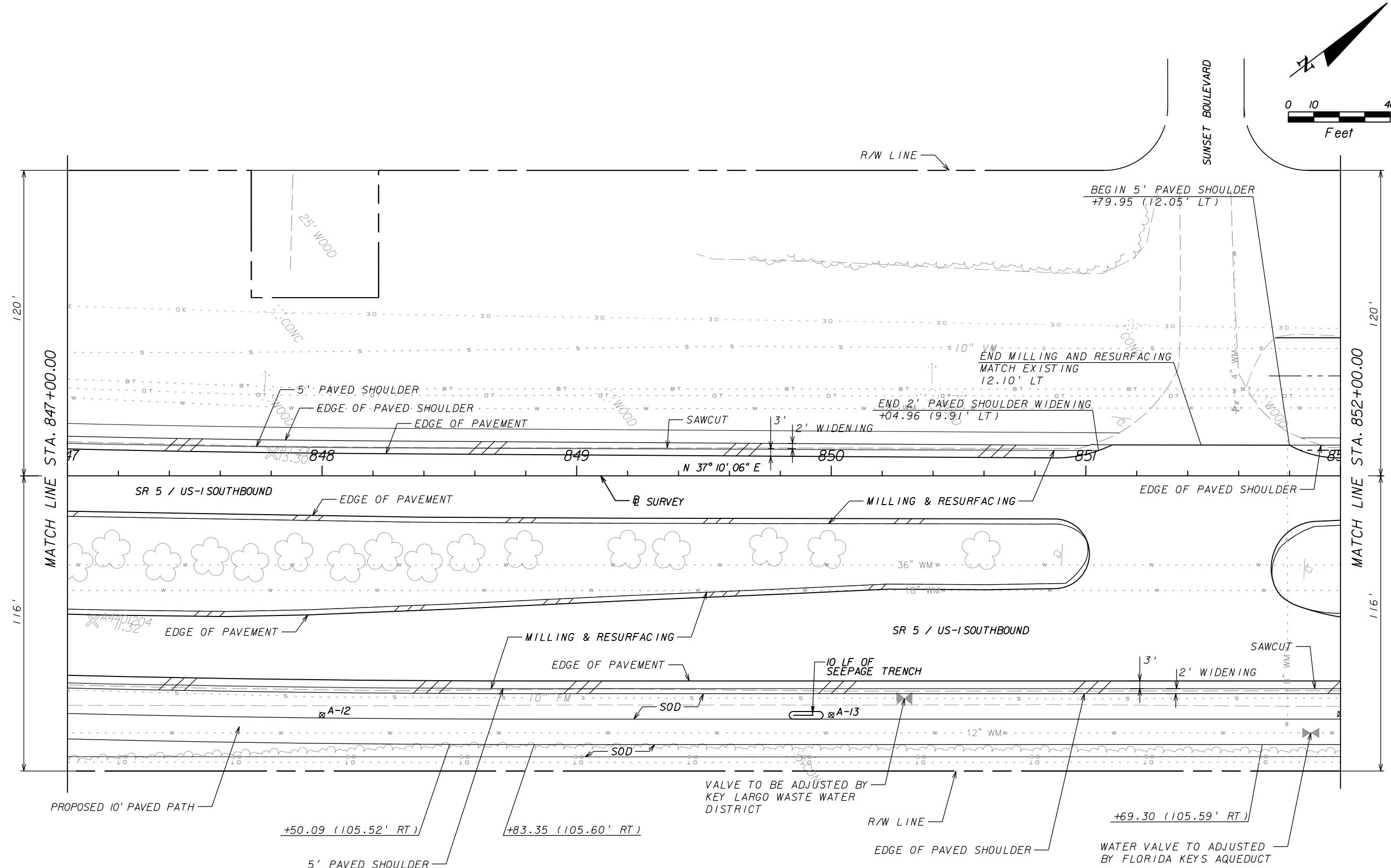
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STATE OF FLORIDA
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5 MONROE 419859-1-52-01

ROADWAY PLANS

SHEET NO.
25



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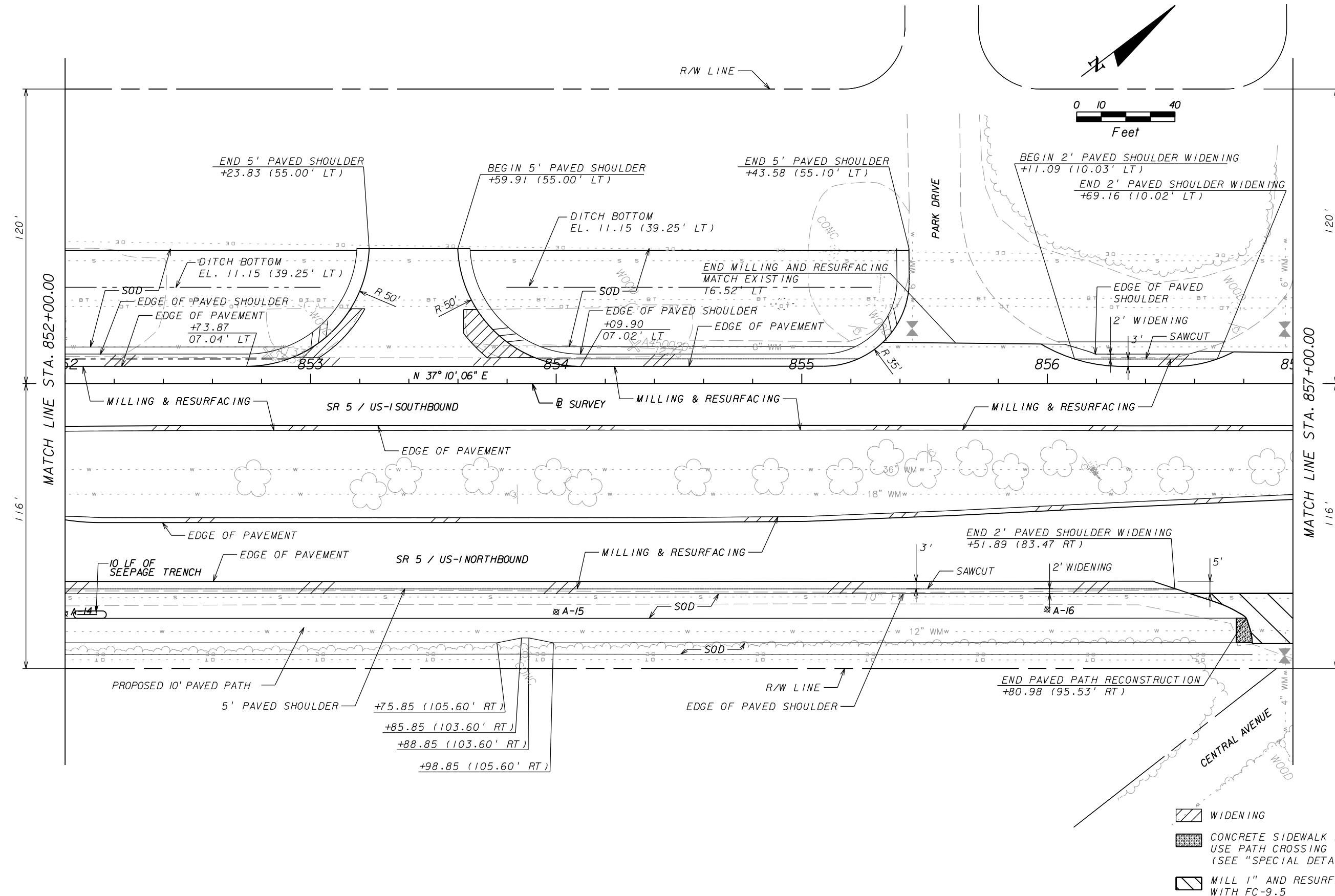
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STATE OF FLORIDA
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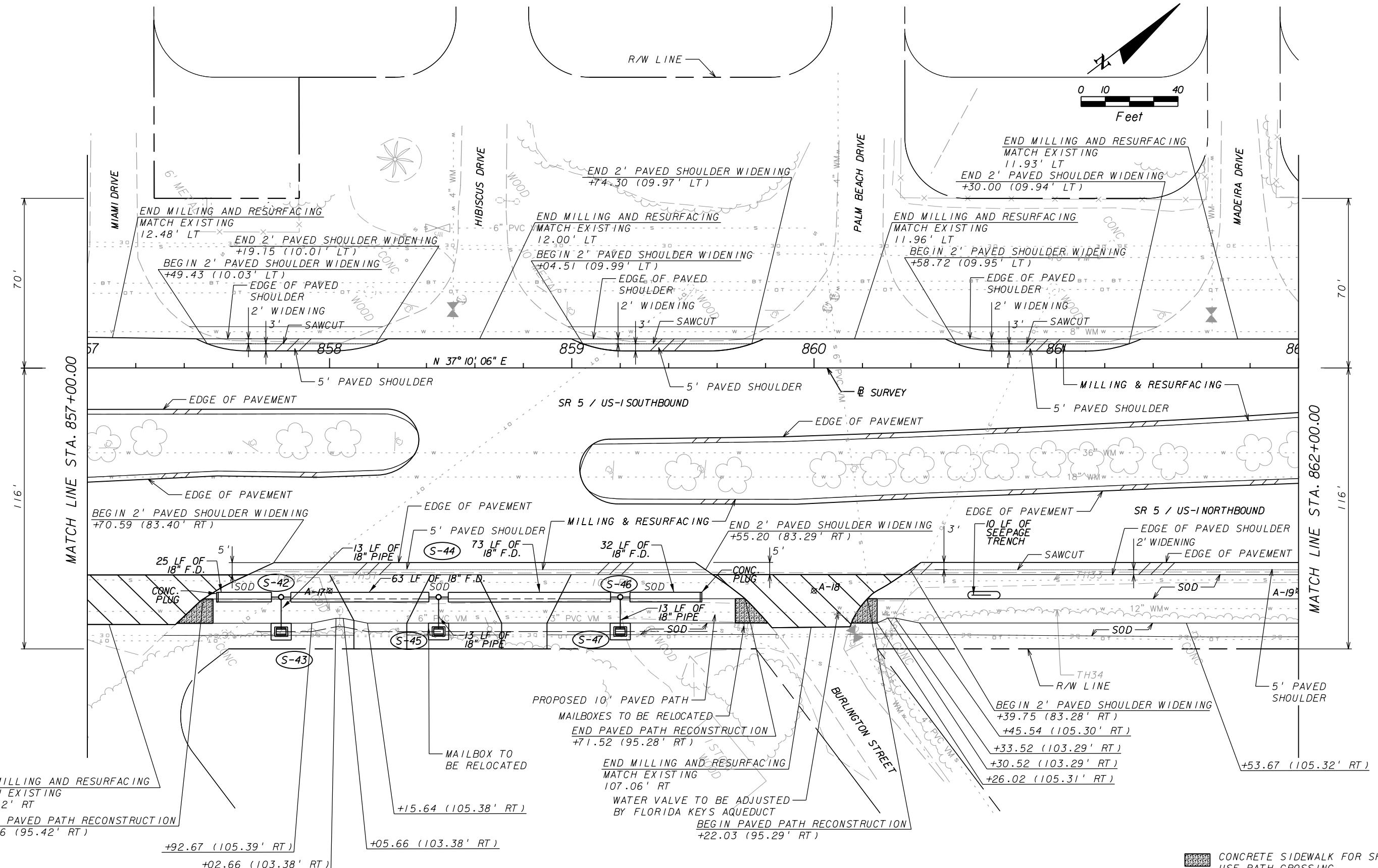
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5	MONROE	419859-1-52-01

ROADWAY PLANS

SHEET NO.
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.
						5	MONROE	419859-1-52-01	27



R E V I S I O N S

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**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

AD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

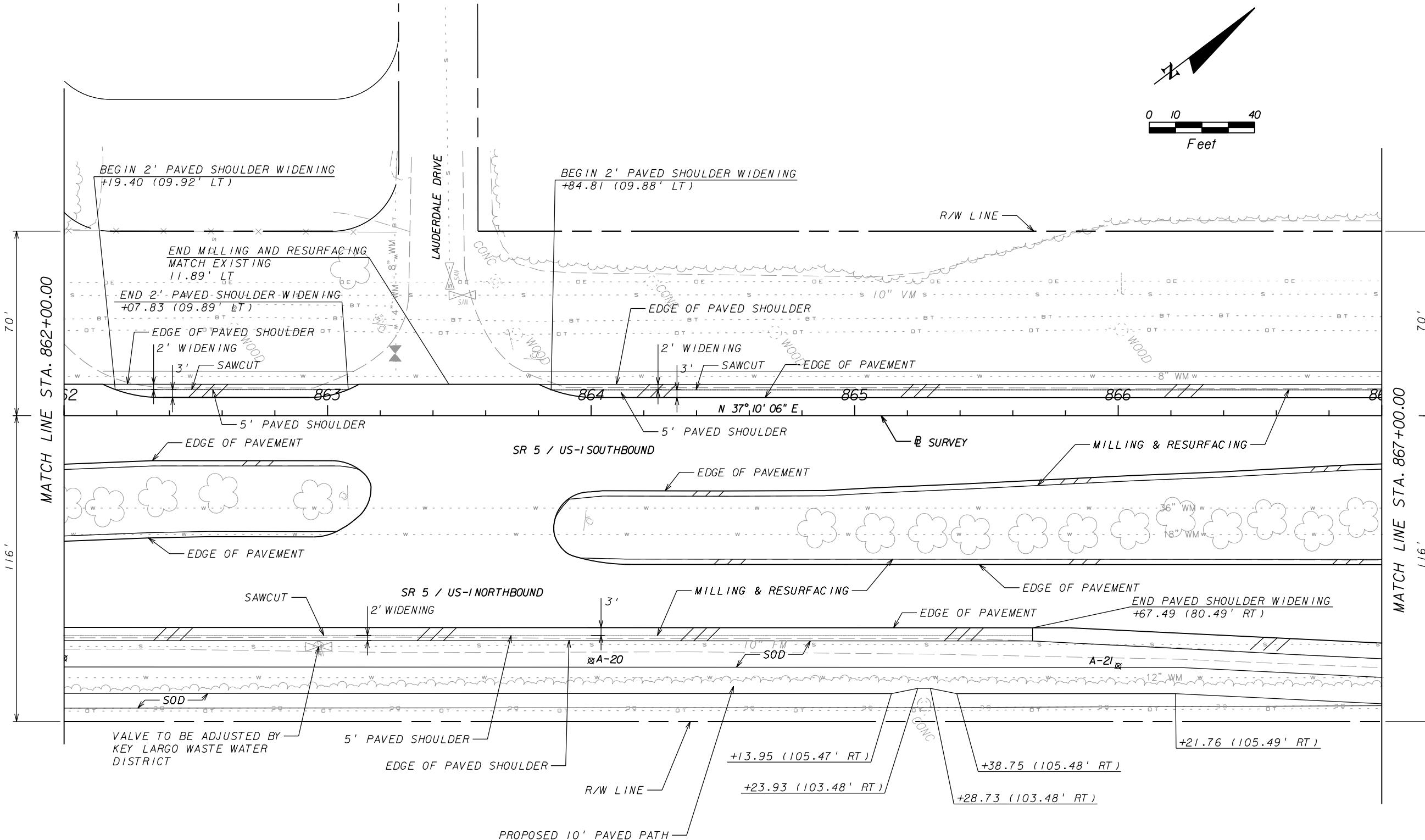
ROADWAY PLANS

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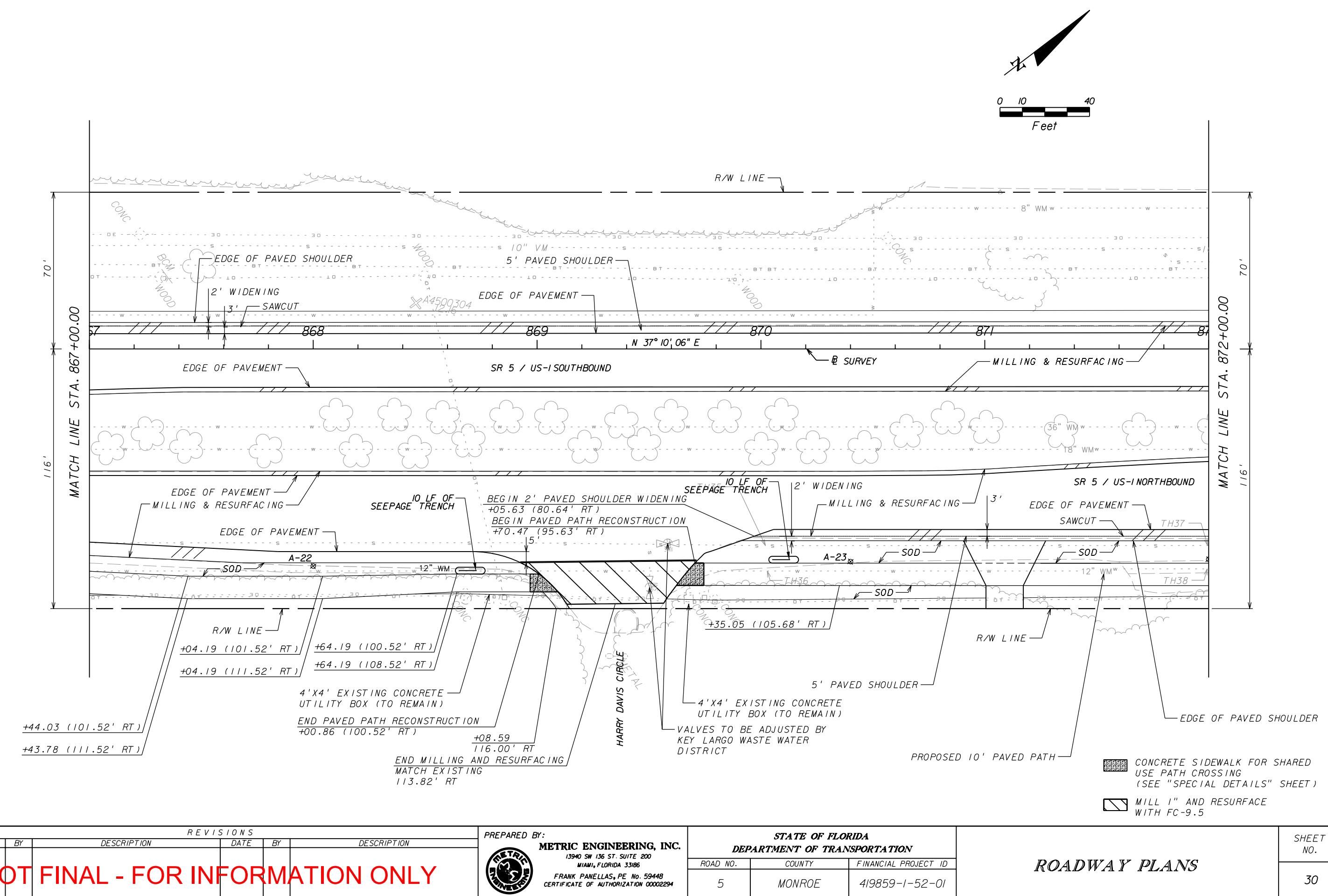
**CONCRETE SIDEWALK FOR SHARED
USE PATH CROSSING
(SEE "SPECIAL DETAILS" SHEET)**

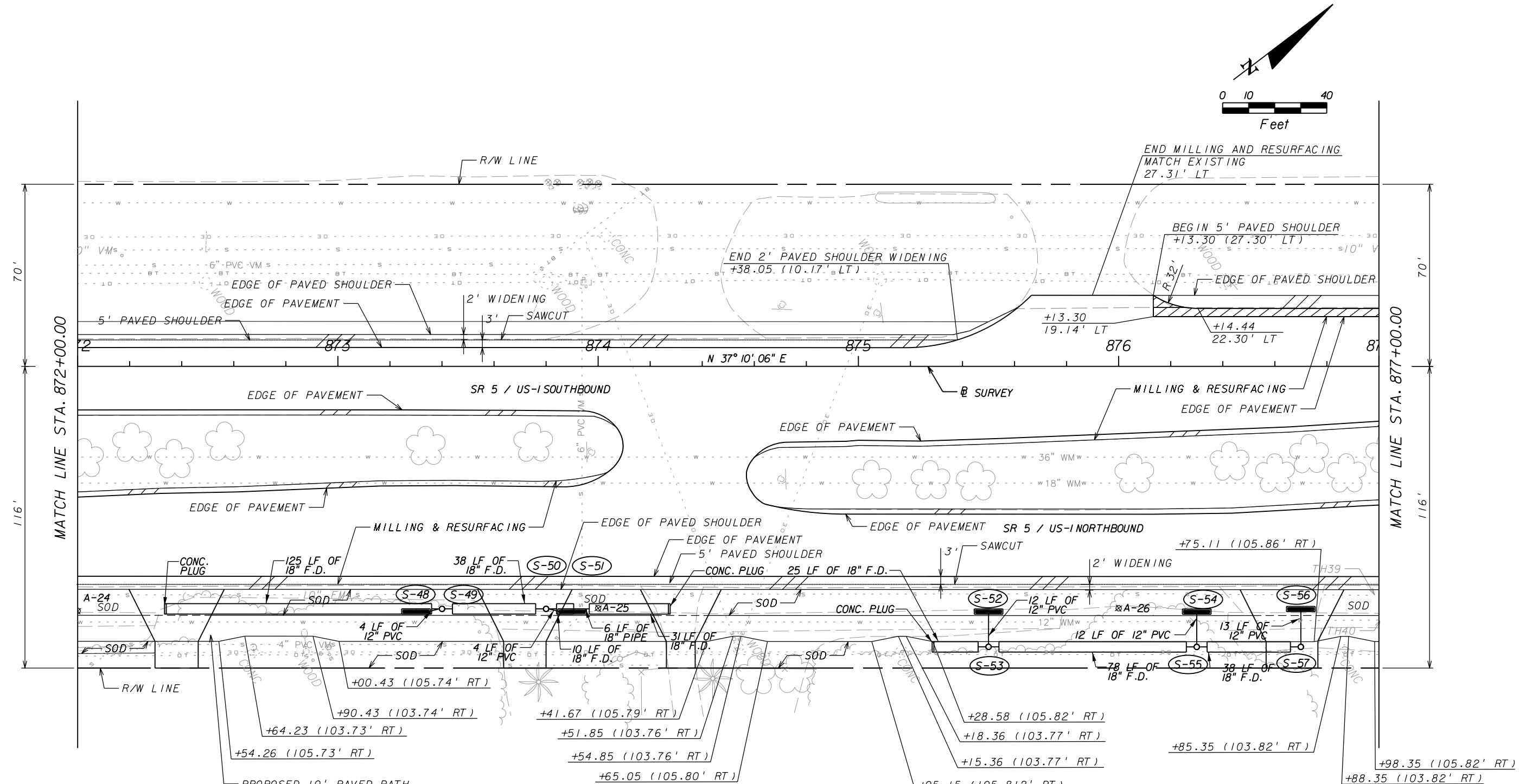
MILL 1" AND RESURFACE WITH FC-9.5

REVISIONS						PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE NO. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	ROADWAY PLANS	SHEET NO. 28
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							
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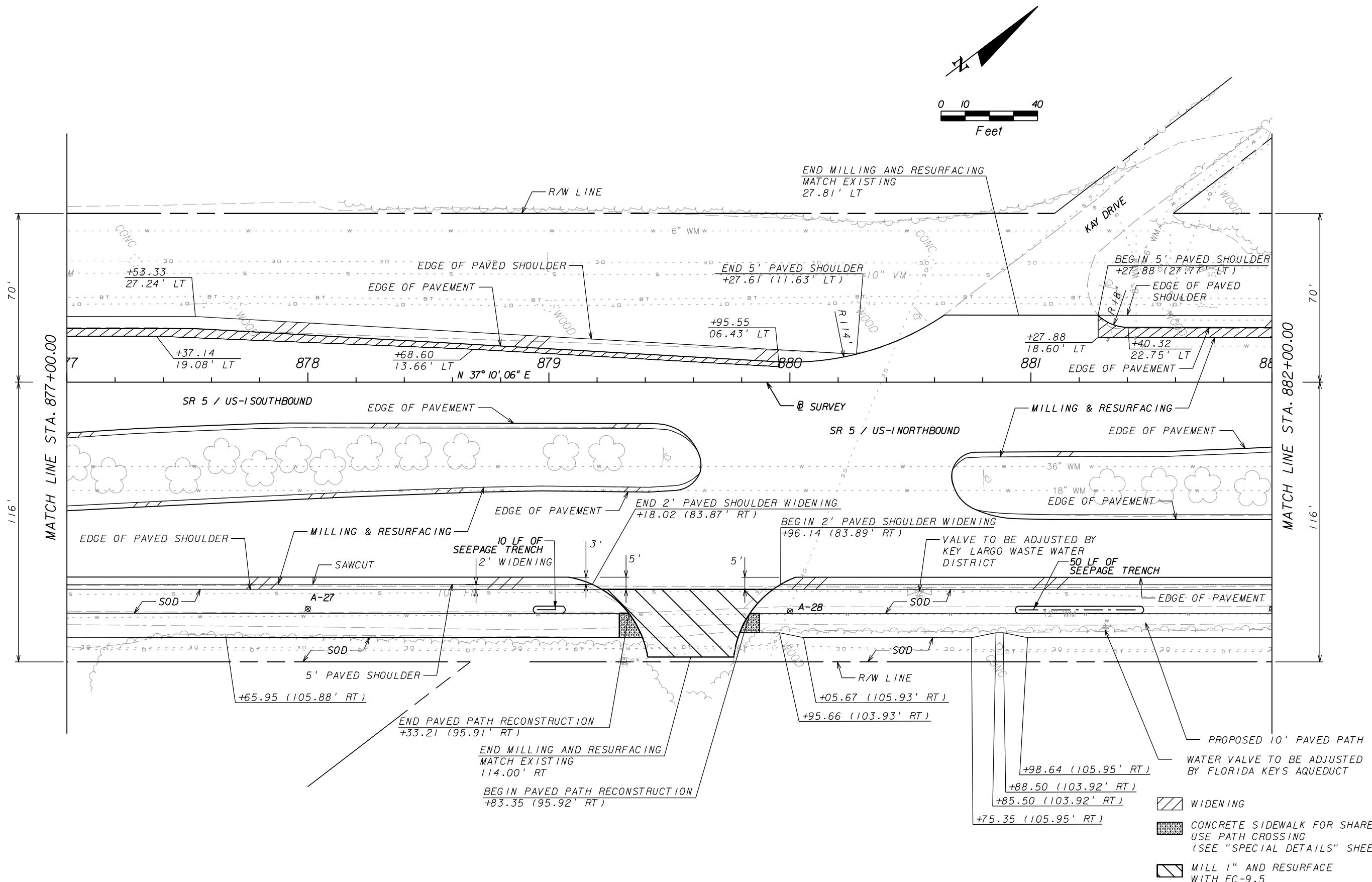
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STATE OF FLORIDA
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ROAD NO. COUNTY FINANCIAL PROJECT ID
5 MONROE 419859-1-52-01

ROADWAY PLANS

SHEET NO.
31



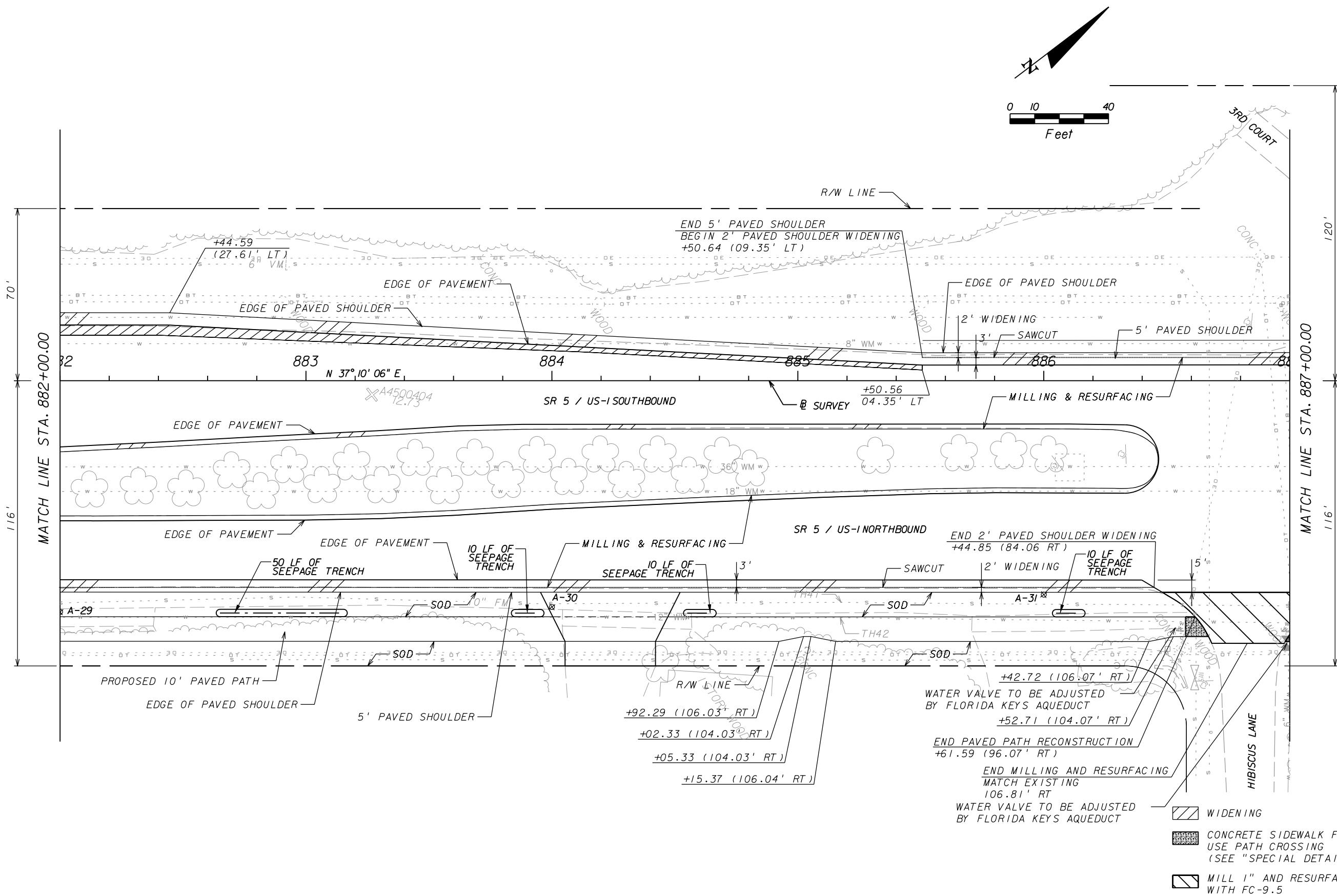
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 5 MONROE 419859-1-52-01

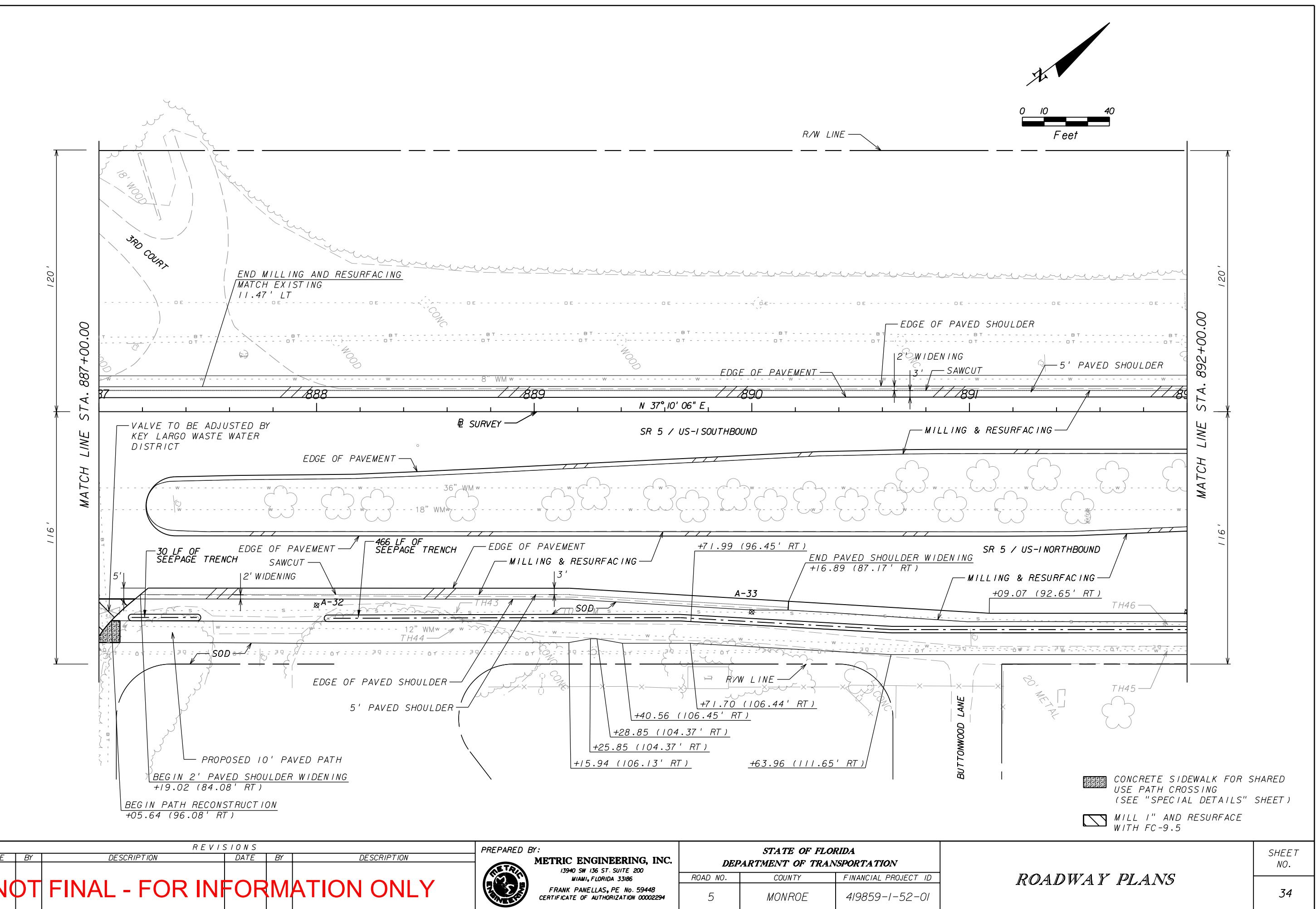
ROADWAY PLANS

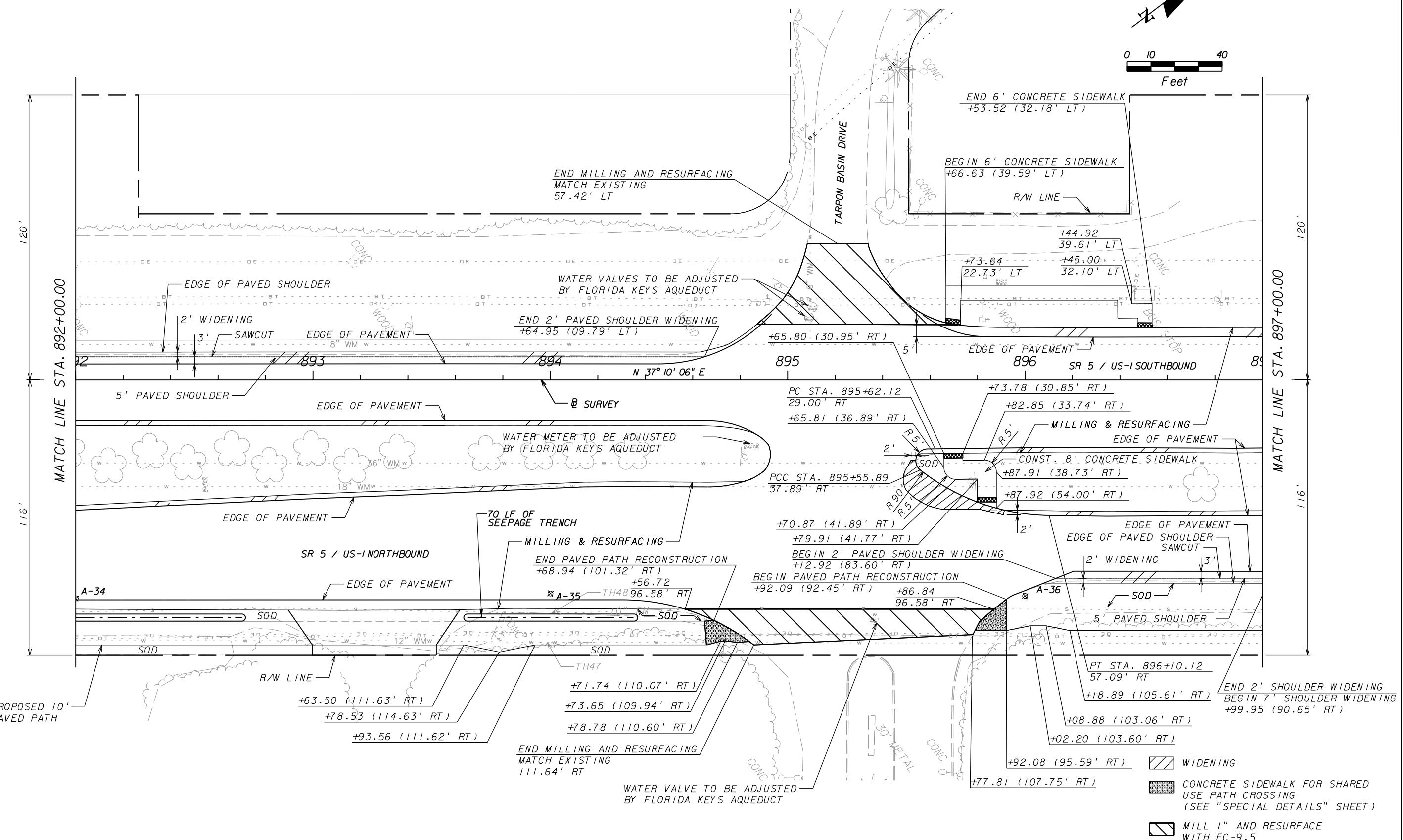
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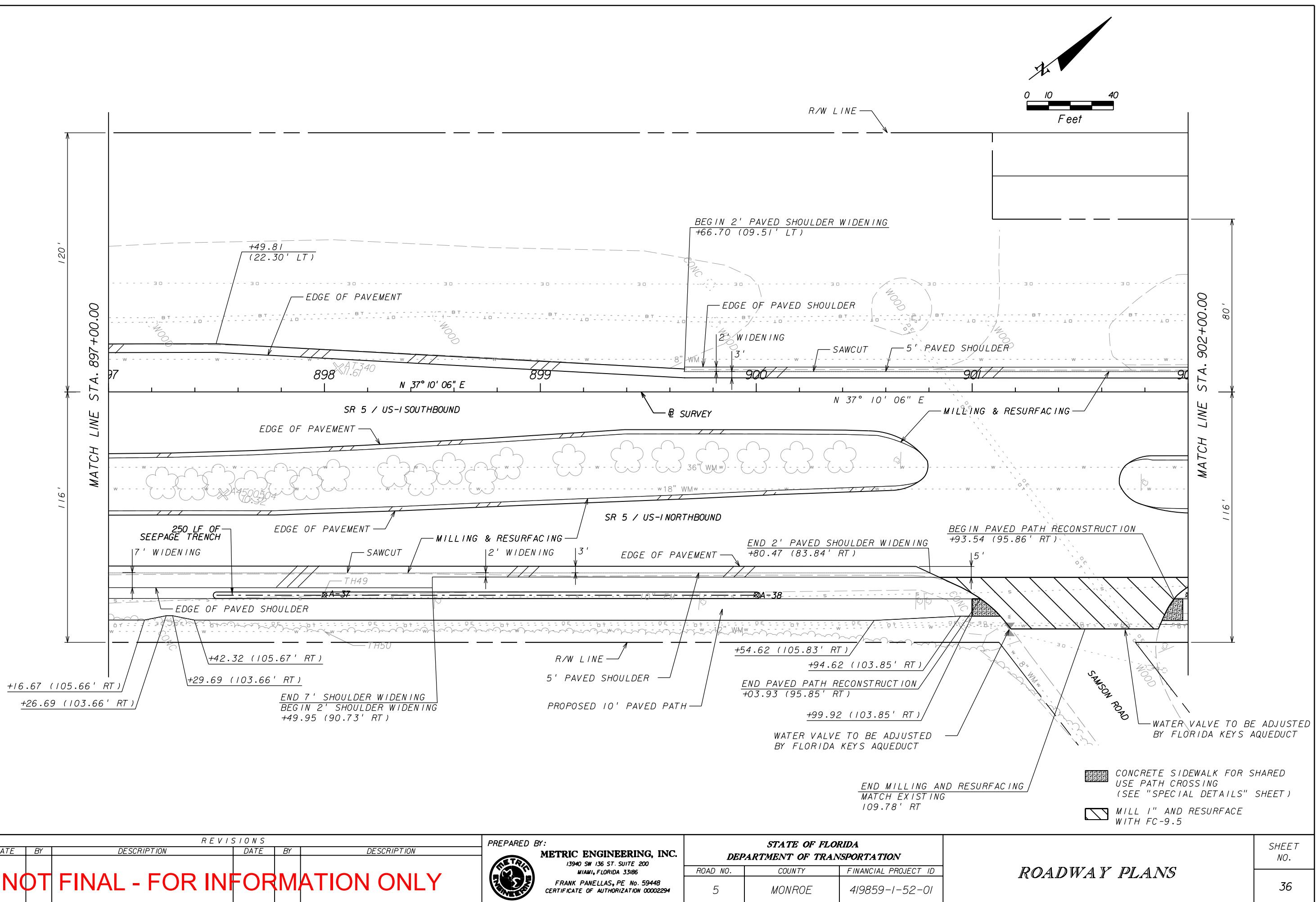
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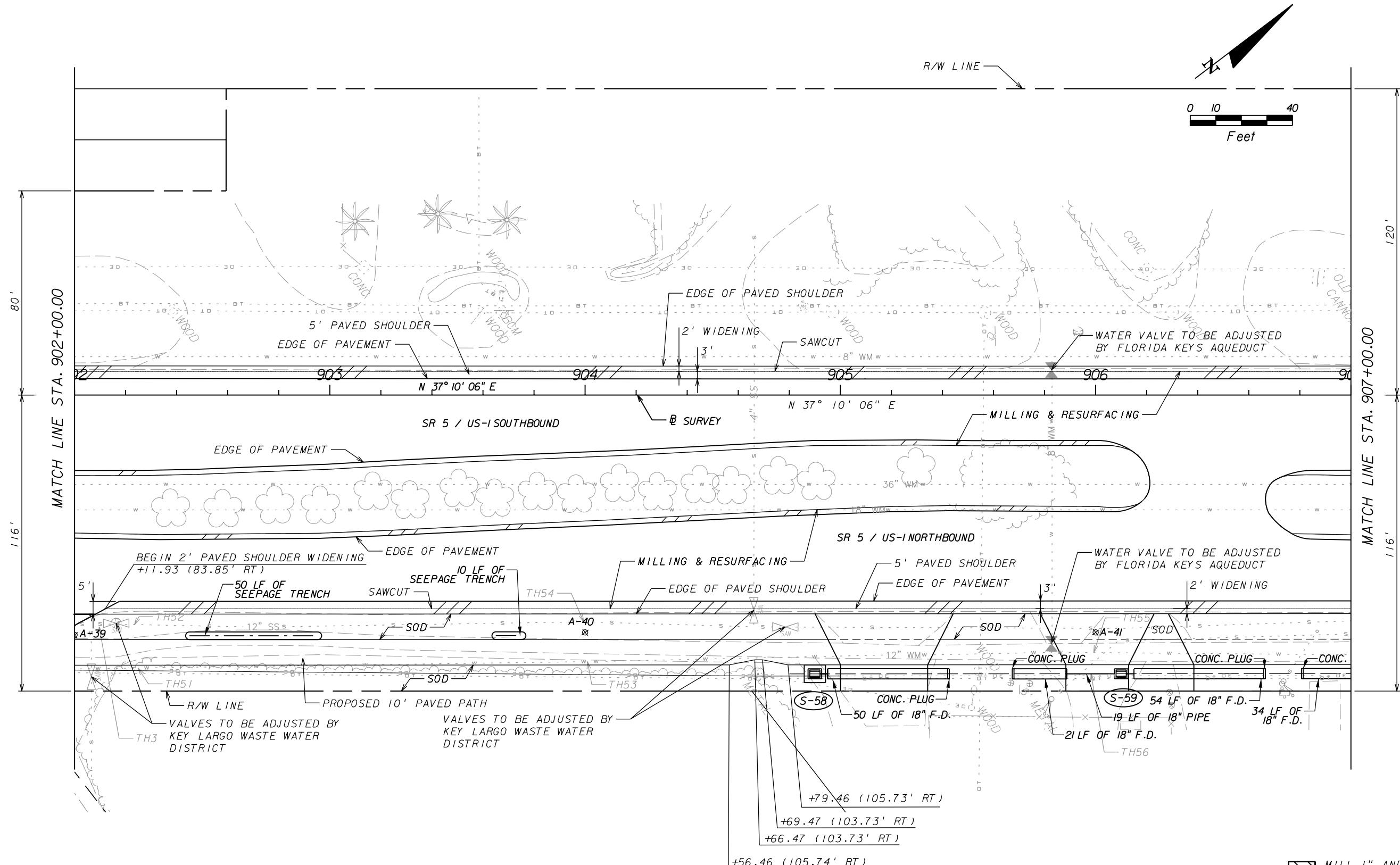
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	STATE OF FLORIDA	ROADWAY PLANS	SHEET NO.
						DEPARTMENT OF TRANSPORTATION		35





MILL 1" AND RESURFACE WITH FC-9.5

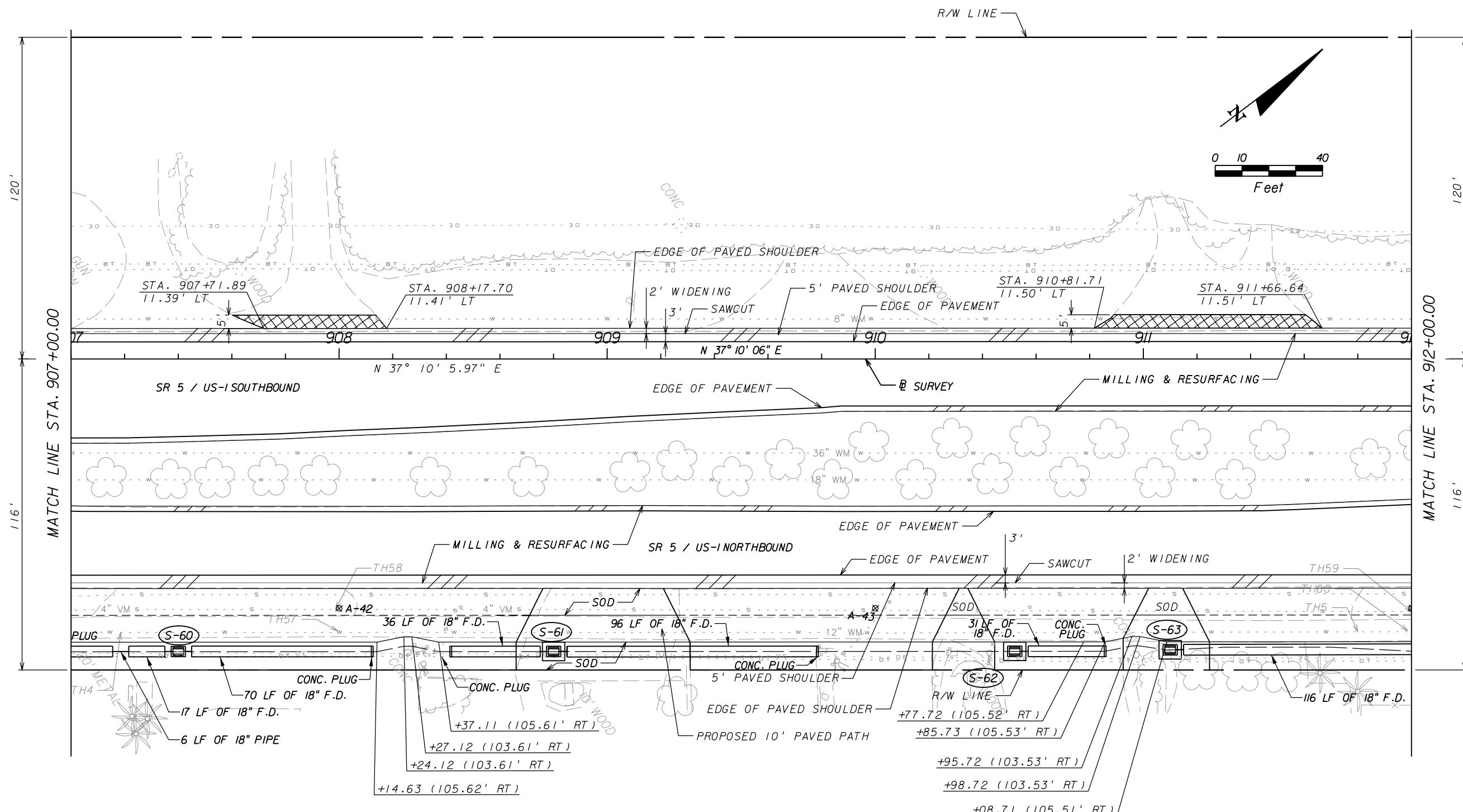
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5 MONROE 419859-1-52-01

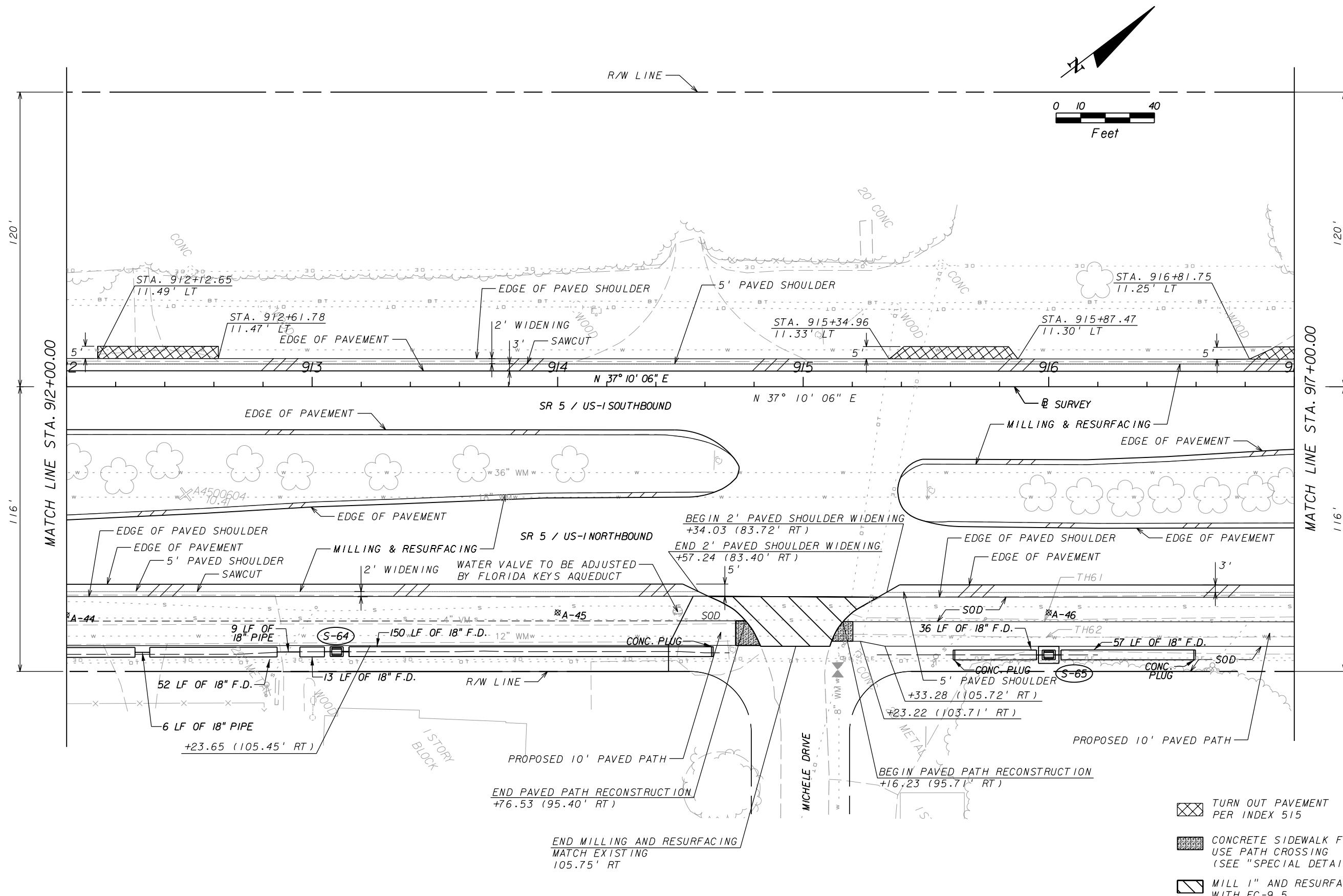
ROADWAY PLANS

SHEET NO.
37



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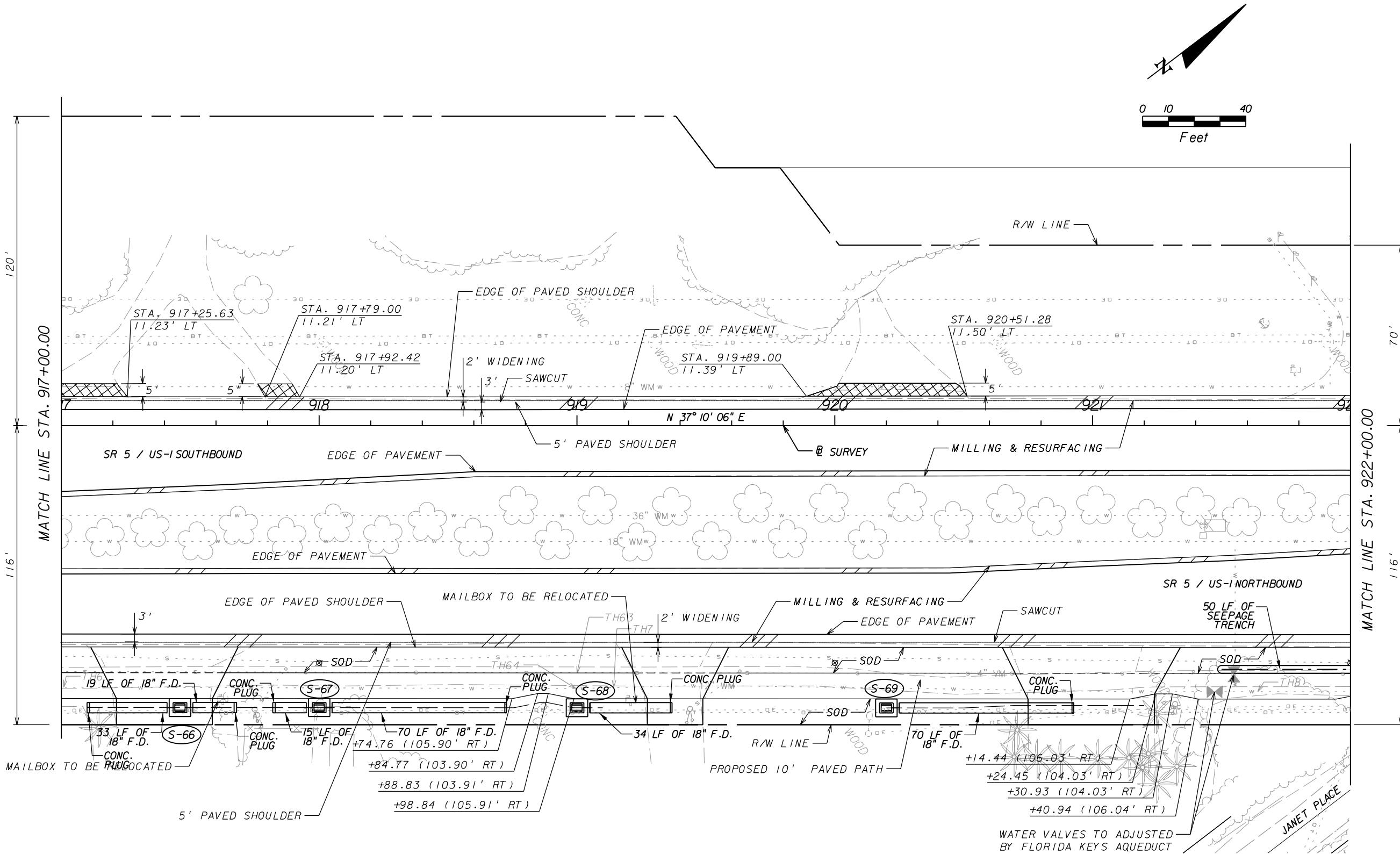
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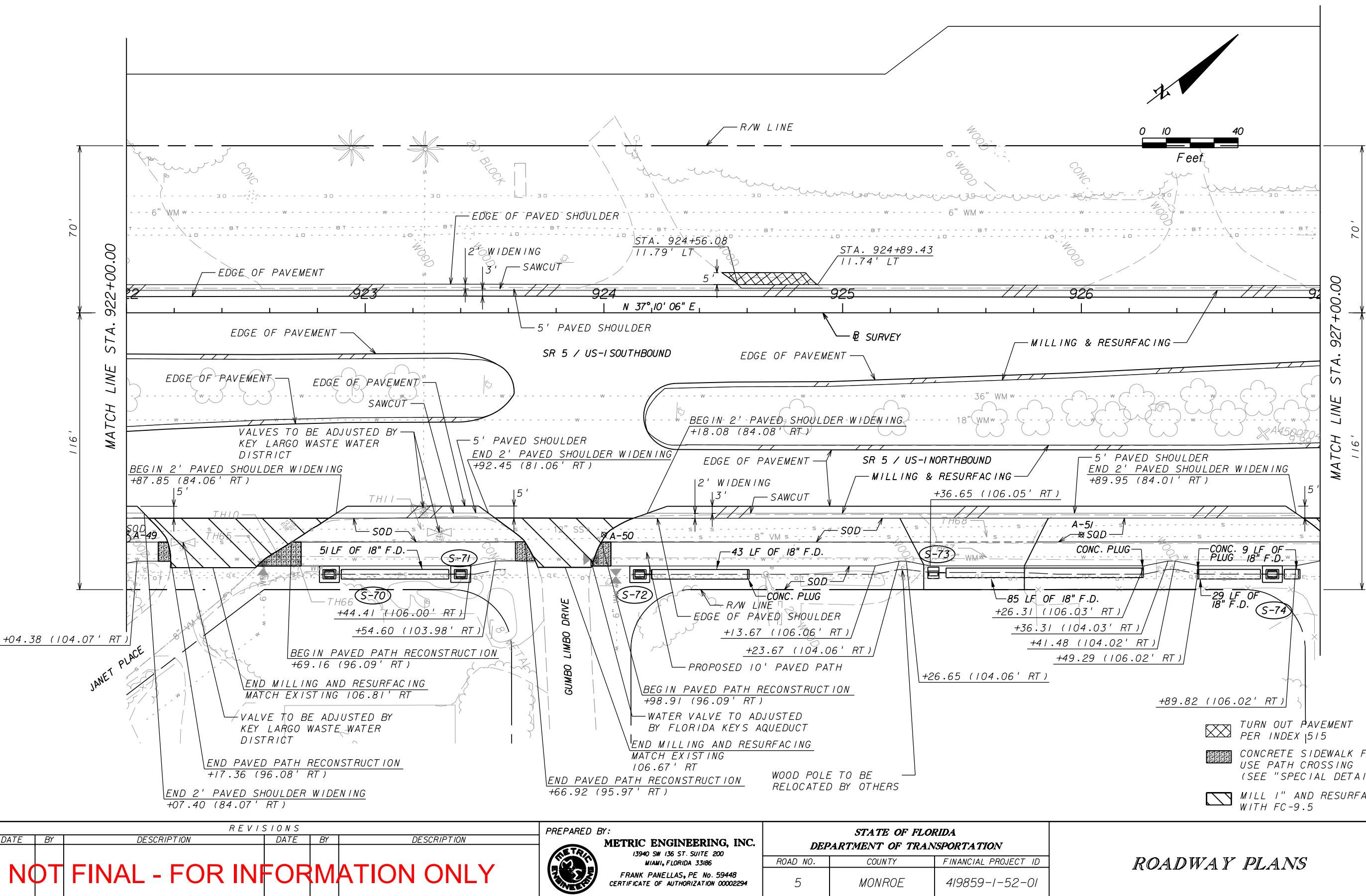
ROADWAY PLANS

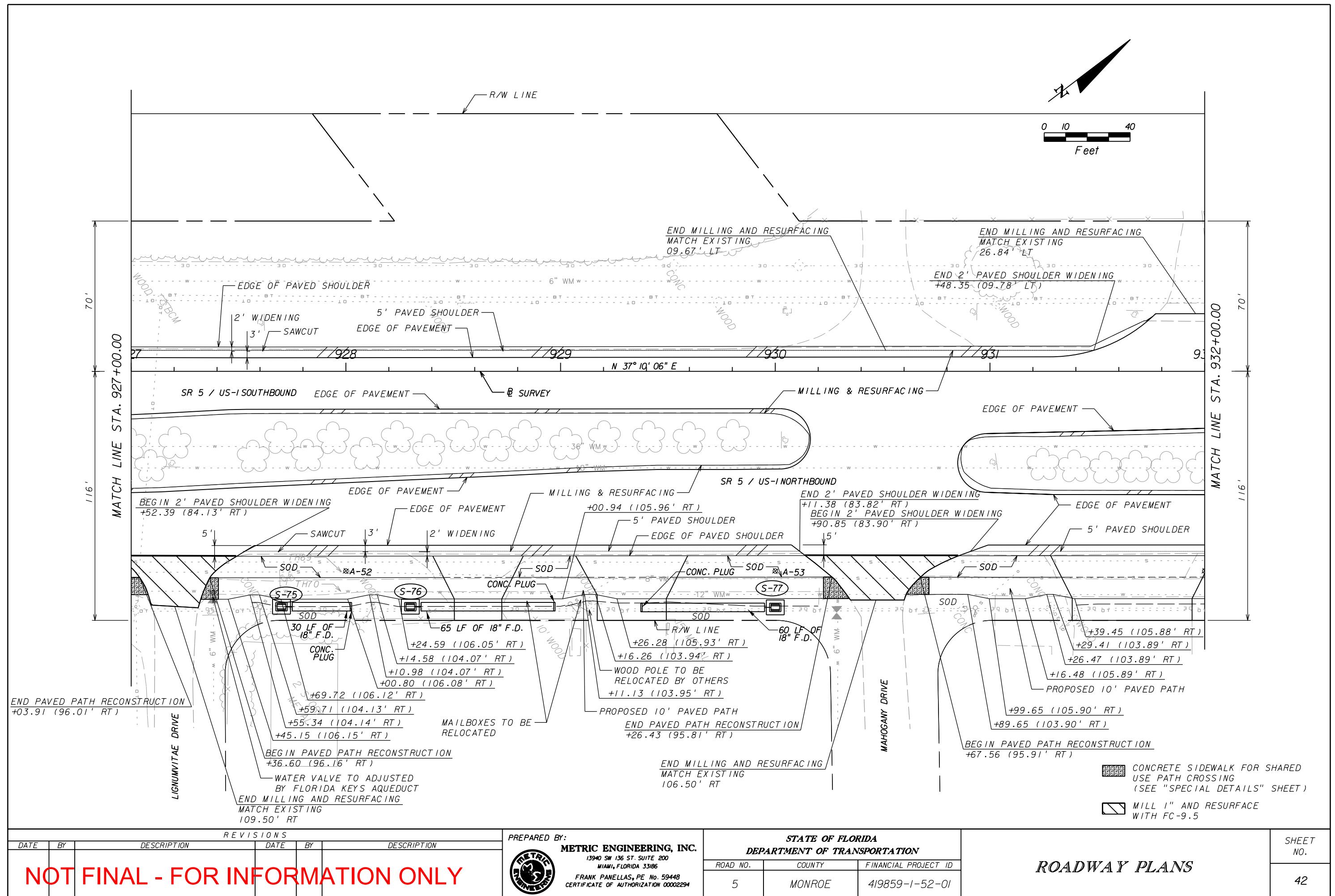
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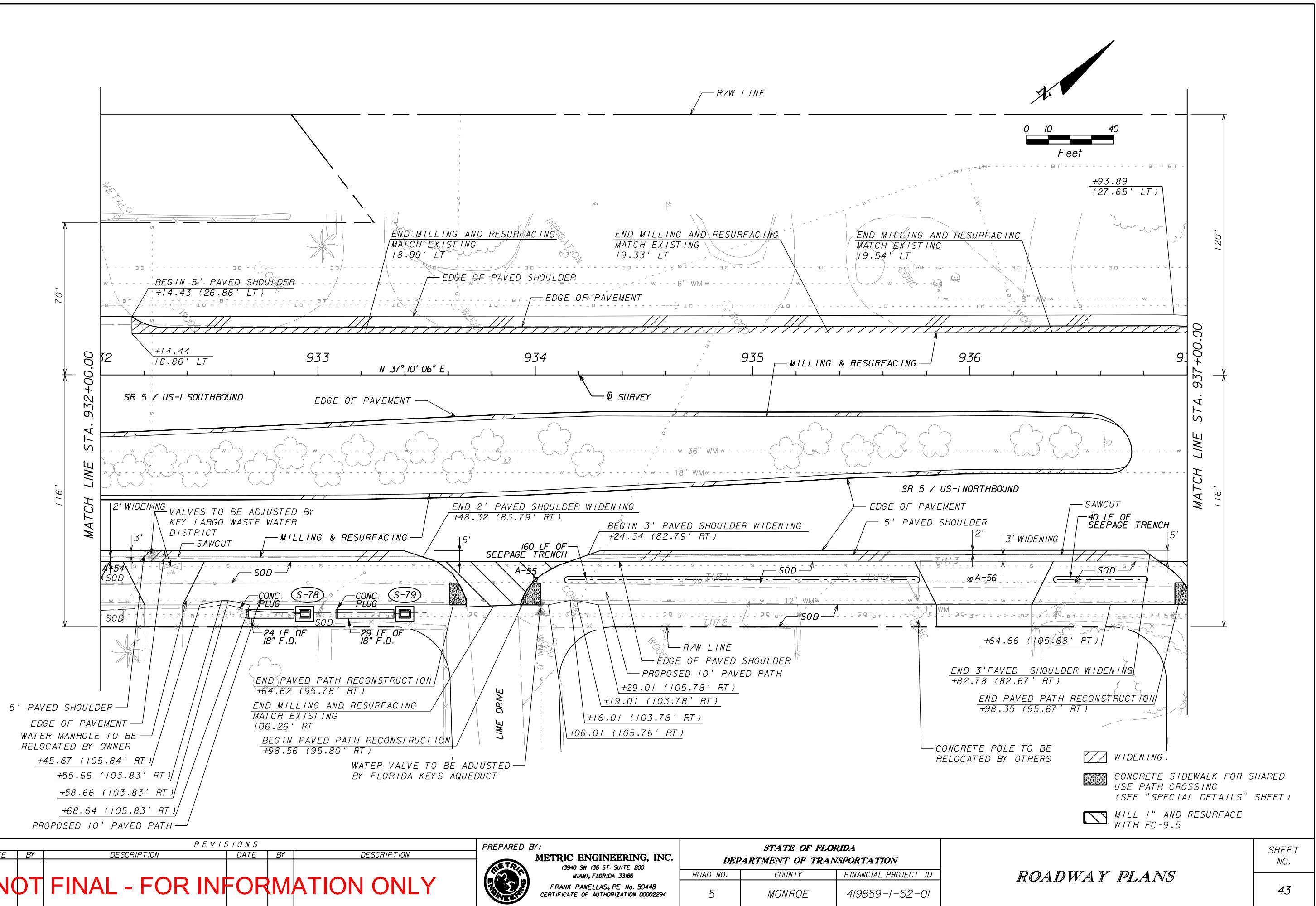
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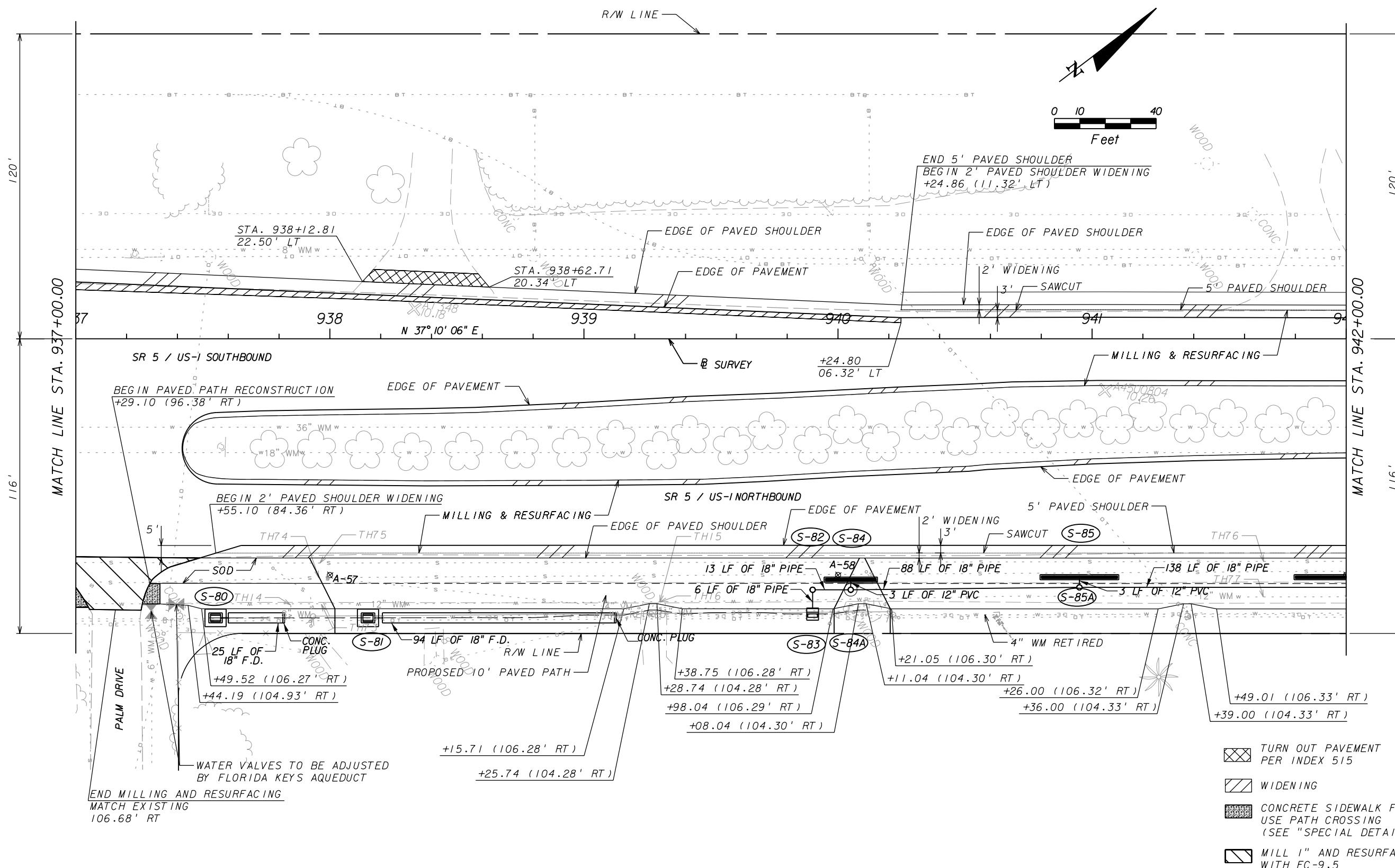
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		NOT FINAL - FOR INFORMATION ONLY			 METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	5	MONROE	419859-1-52-01		40





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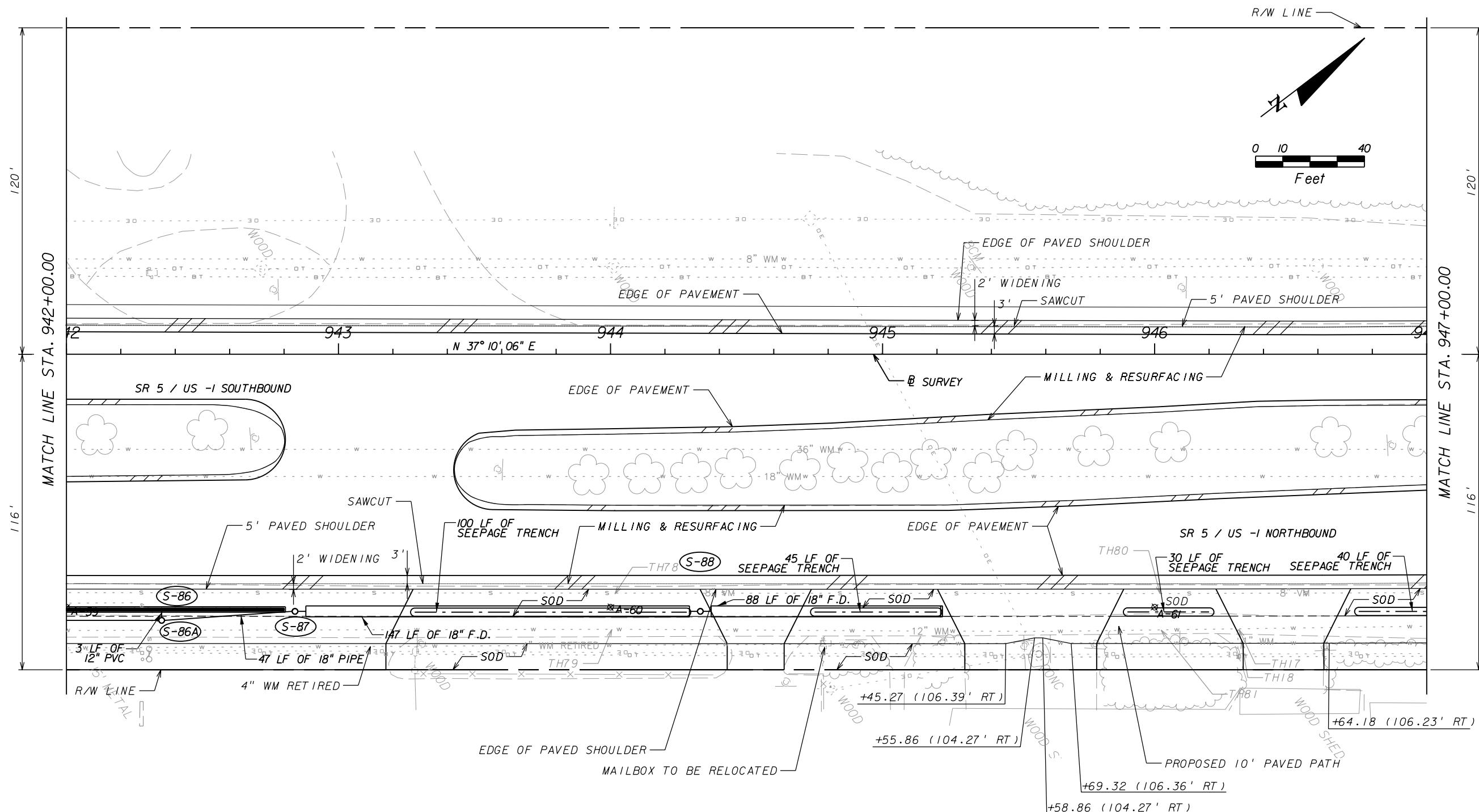
PREPARED BY:
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

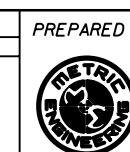
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

ROADWAY PLANS

SHEET NO.
44



REVISIONS		
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DATE	BY	DESCRIPTION
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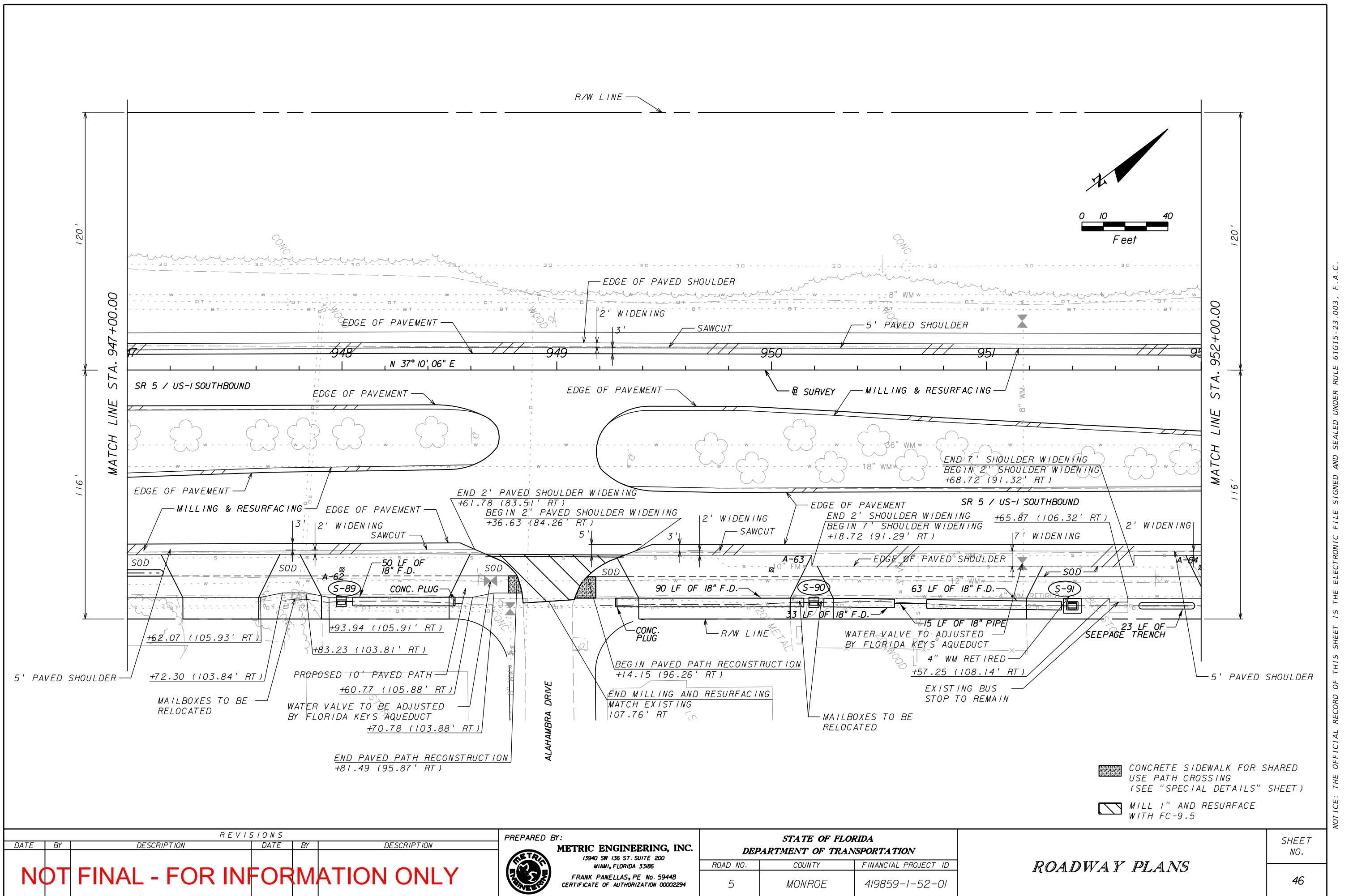
METRIC
ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

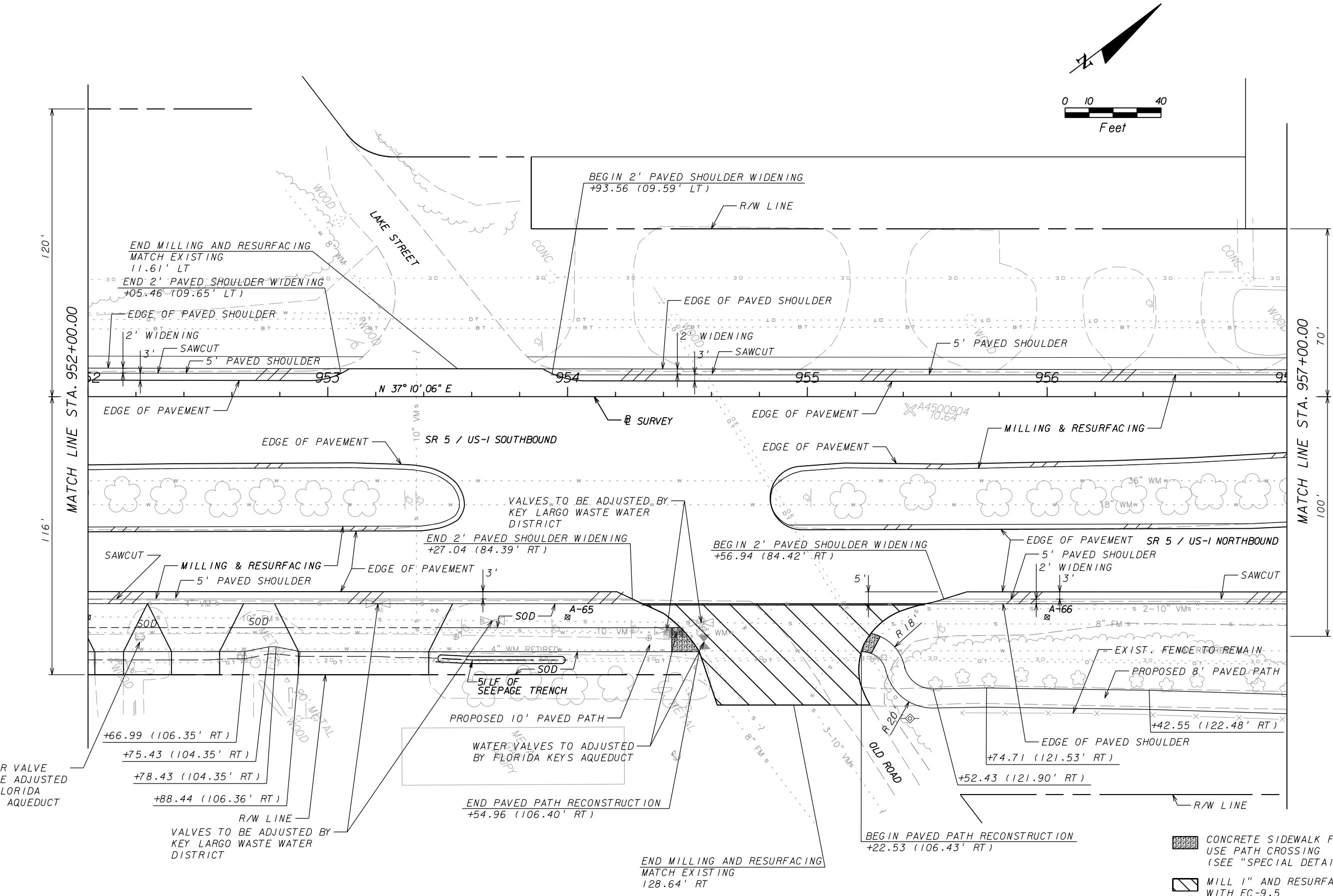
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5	MONROE	419859-1-52-01

ROADWAY PLANS

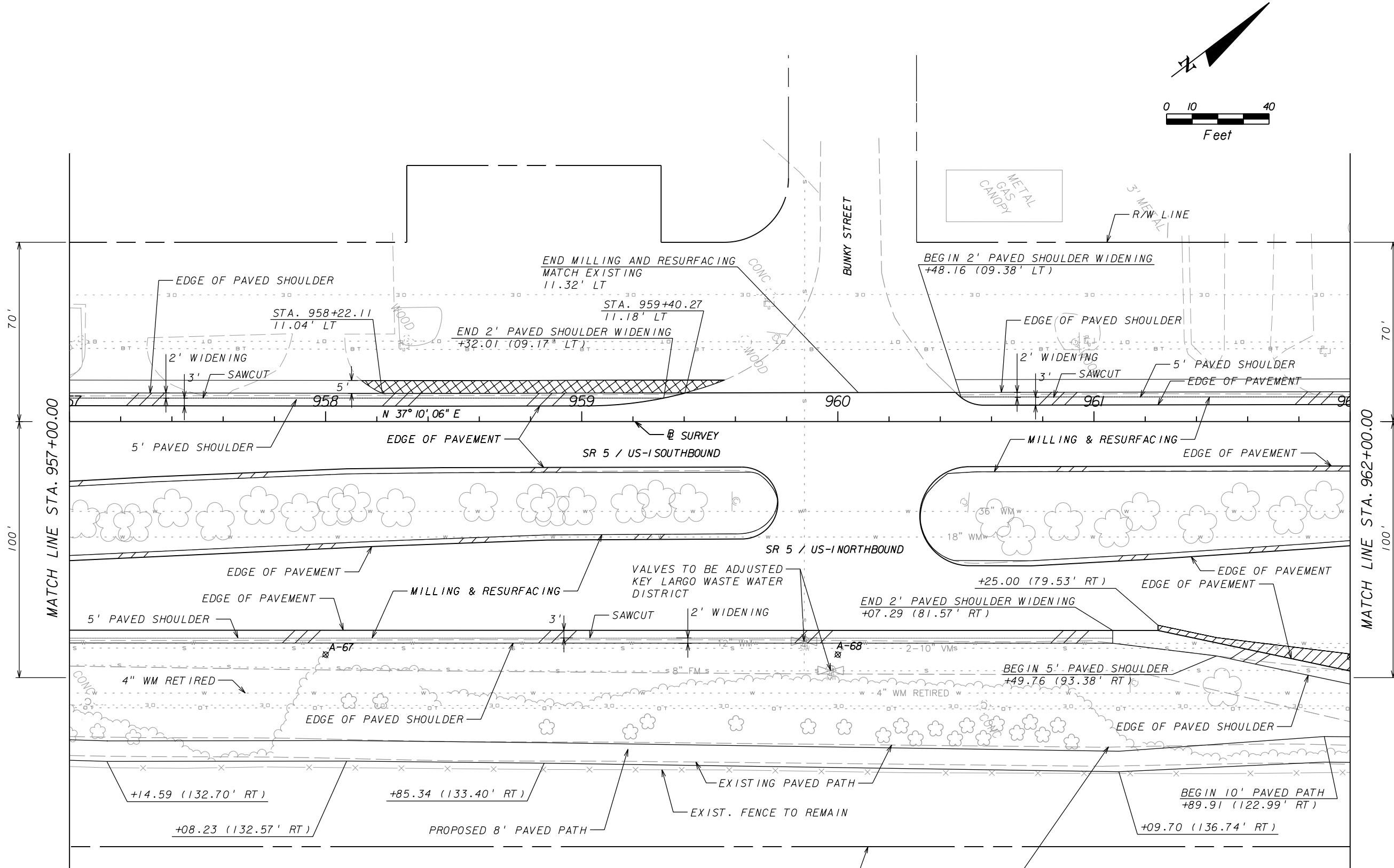
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45



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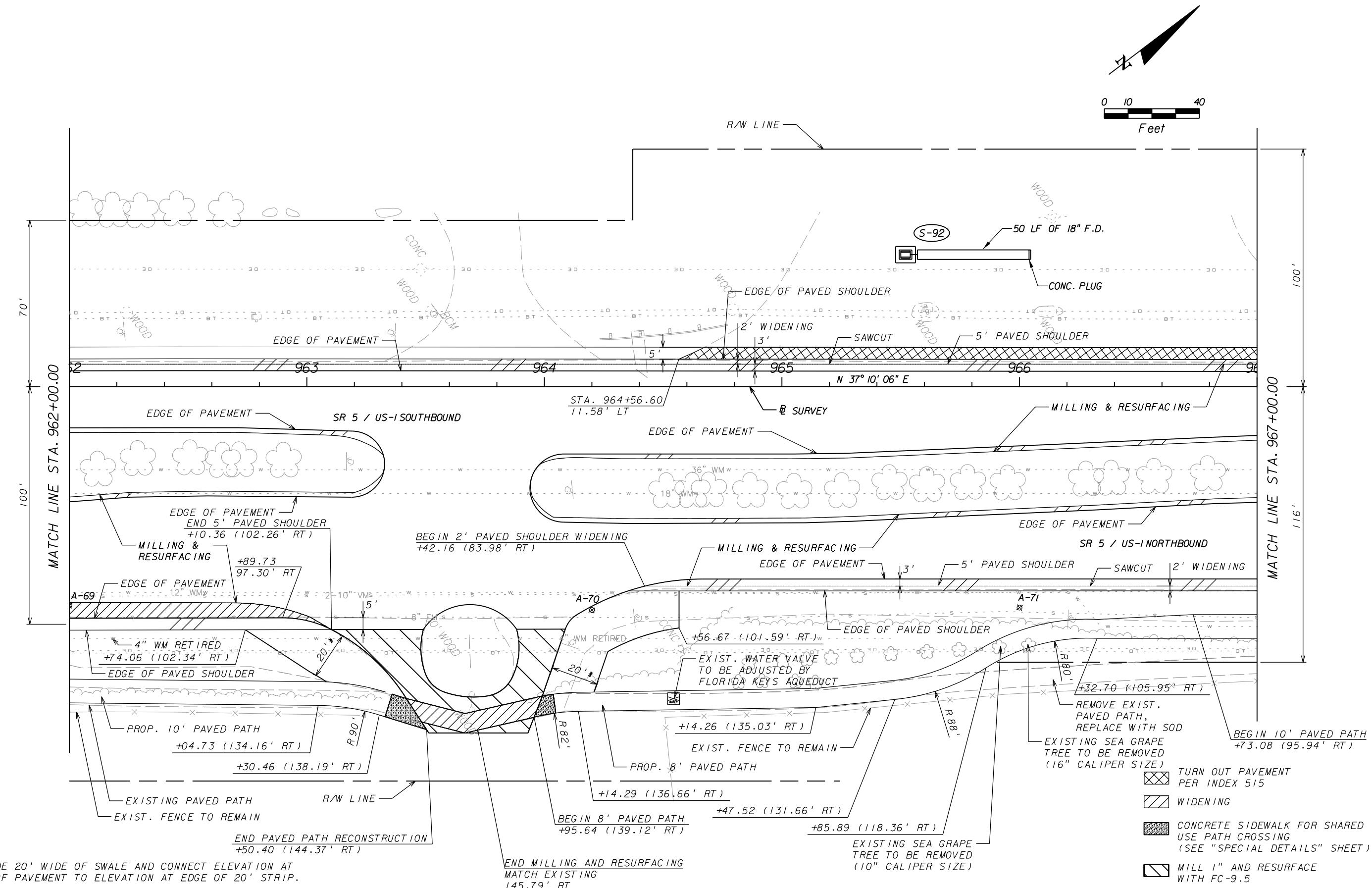


REVISIONS						PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROAD NO. 5	COUNTY MONROE	FINANCIAL PROJECT ID 419859-1-52-01	SHEET NO. 47
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
ROADWAY PLANS													



WIDENING
 TURN OUT PAVEMENT
 PER INDEX 515

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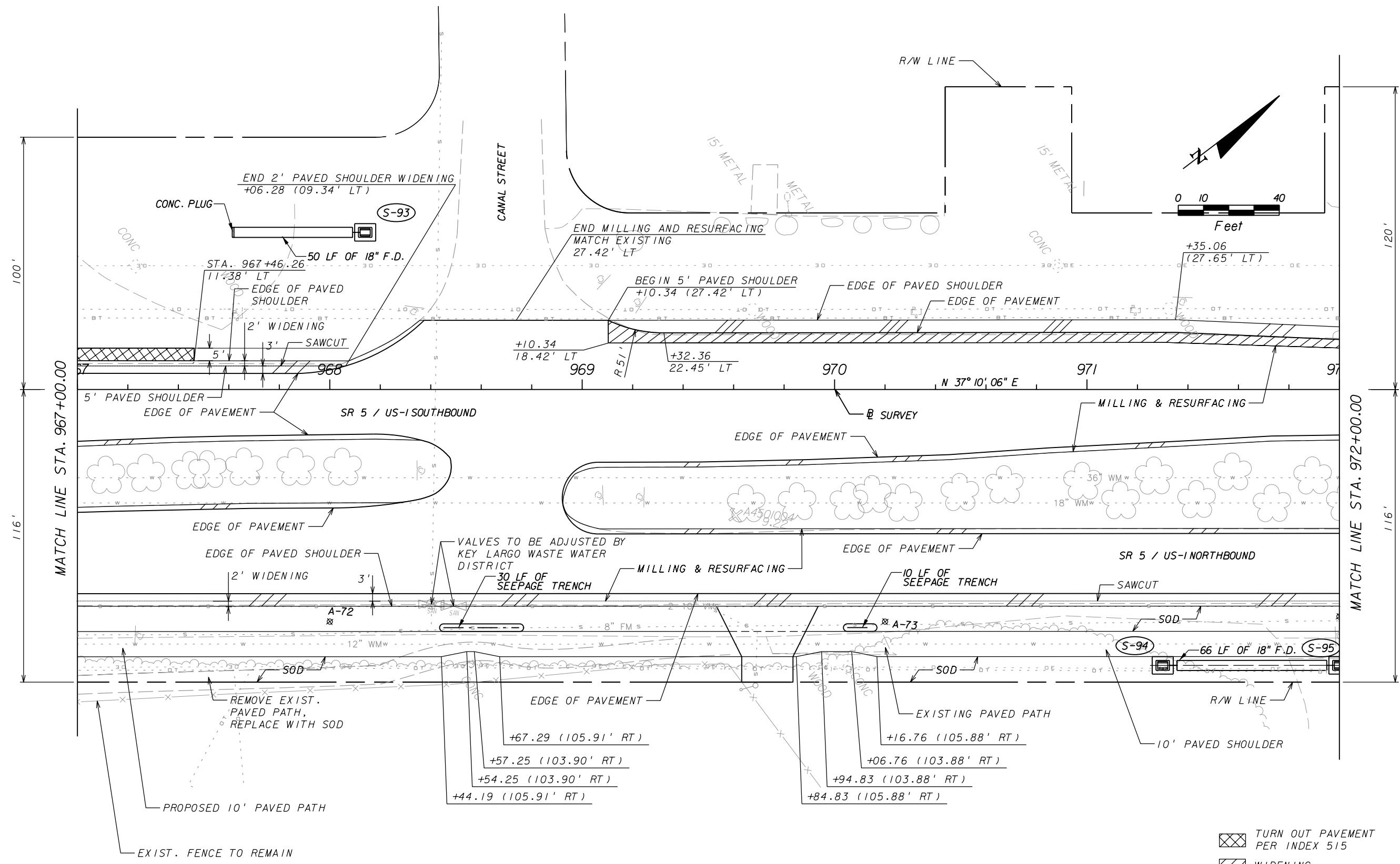
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 FRANK PANELLAS, PE No. 59448
 CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01

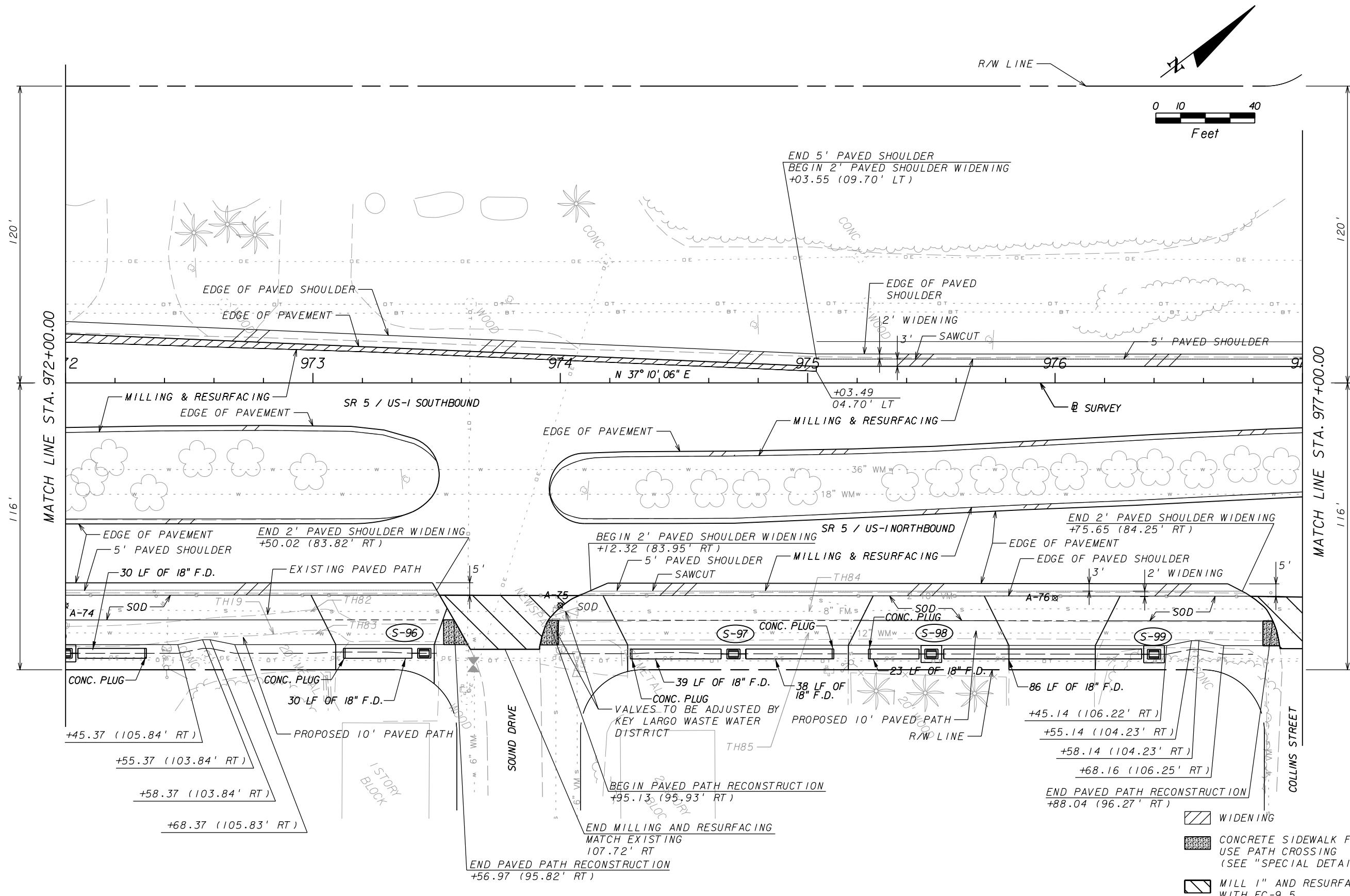
ROADWAY PLANS

SHEET NO.
 49



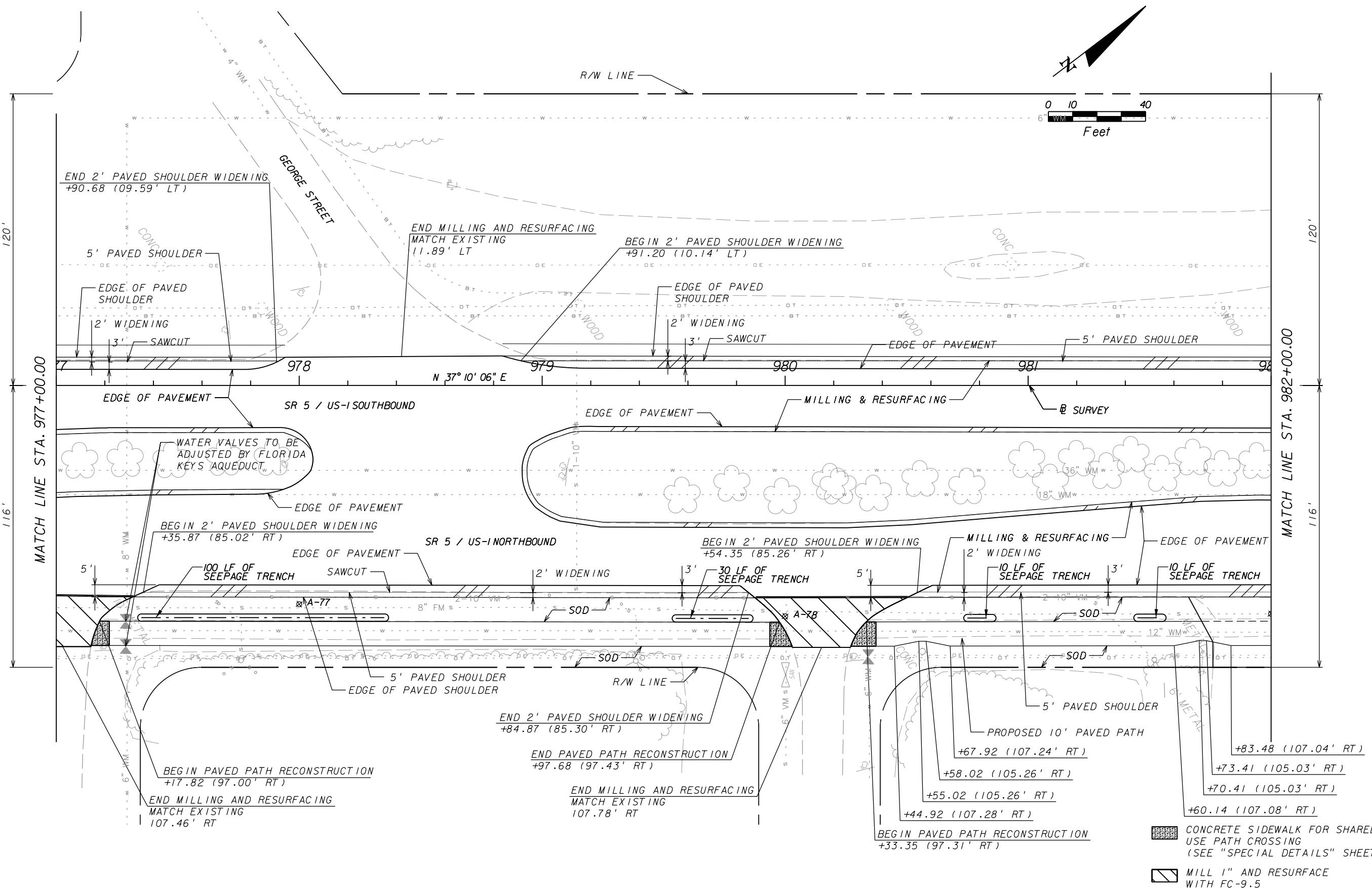
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DATE	BY	DESCRIPTION	DATE	BY							DESCRIPTION
NOT FINAL - FOR INFORMATION ONLY						METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	5	MONROE	419859-1-52-01	ROADWAY PLANS	50



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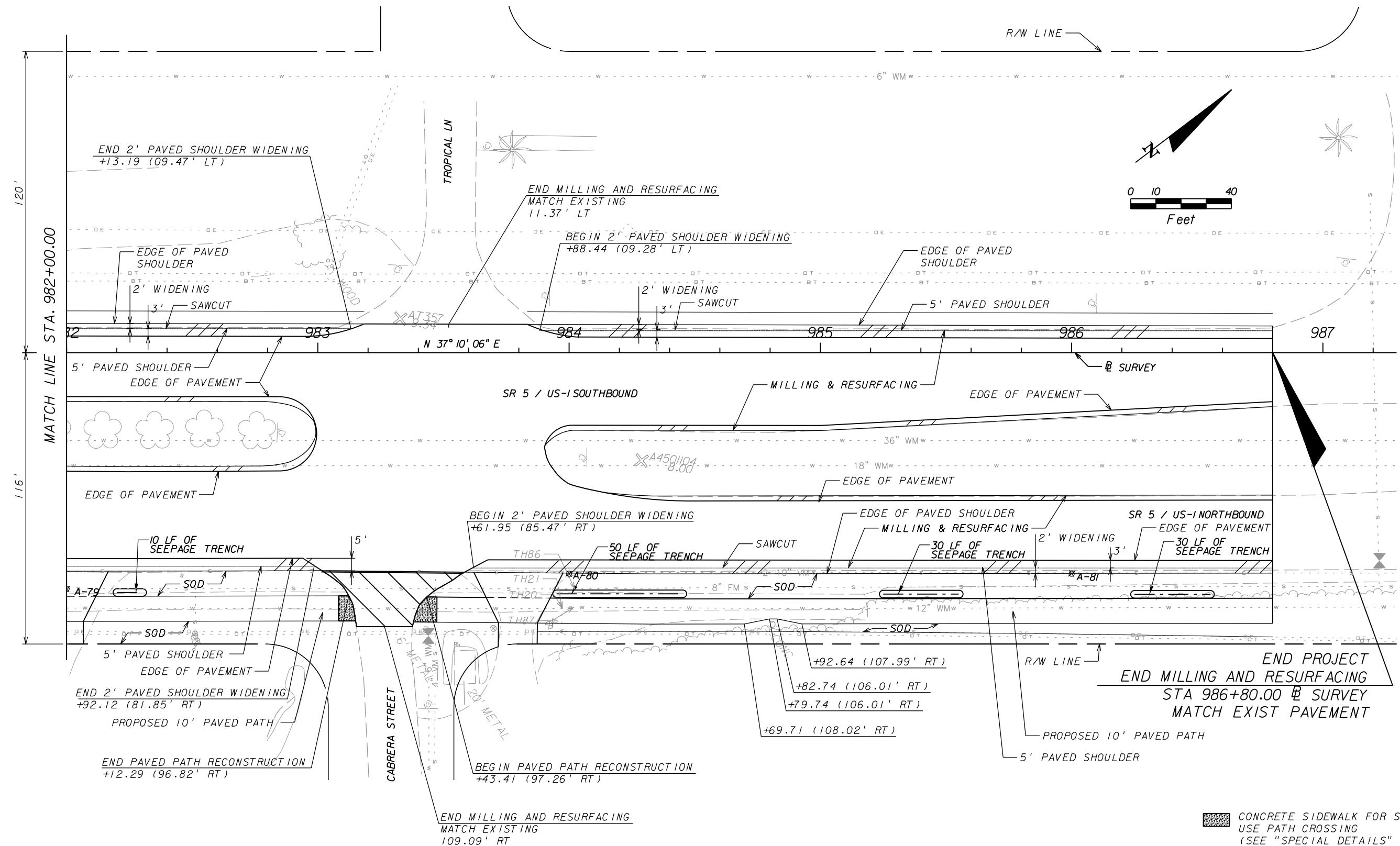
PREPARED BY:
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FRANK PANELLAS, PE No. 59448
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

ROADWAY PLANS

SHEET NO.
52



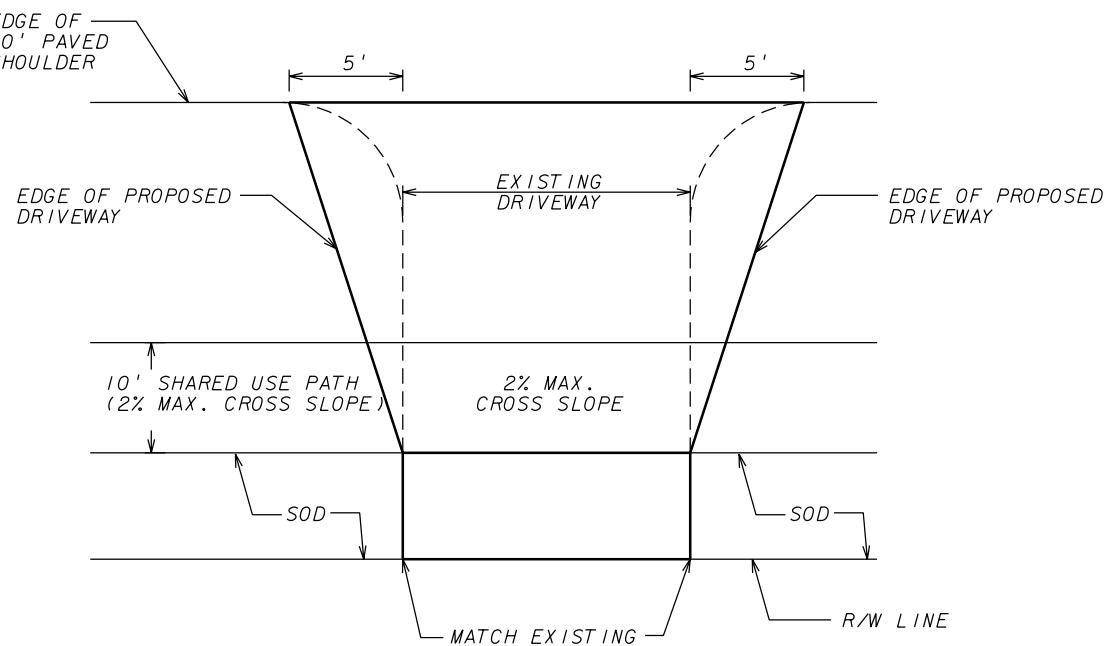
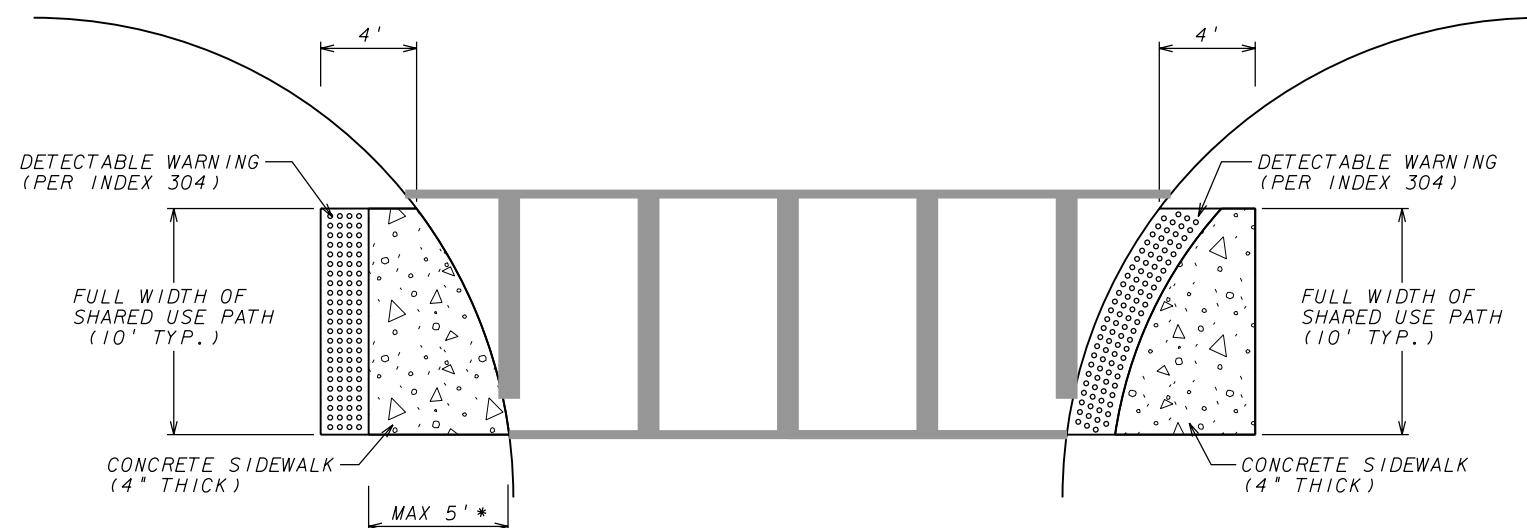
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FRANK PANELLAS, PE No. 59448
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DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
5 MONROE 419859-1-52-01

ROADWAY PLANS

SHEET NO.
53



DRIVEWAY RECONSTRUCTION DETAIL

TYPICAL SHARED USE PATH CROSSWALK DETAIL

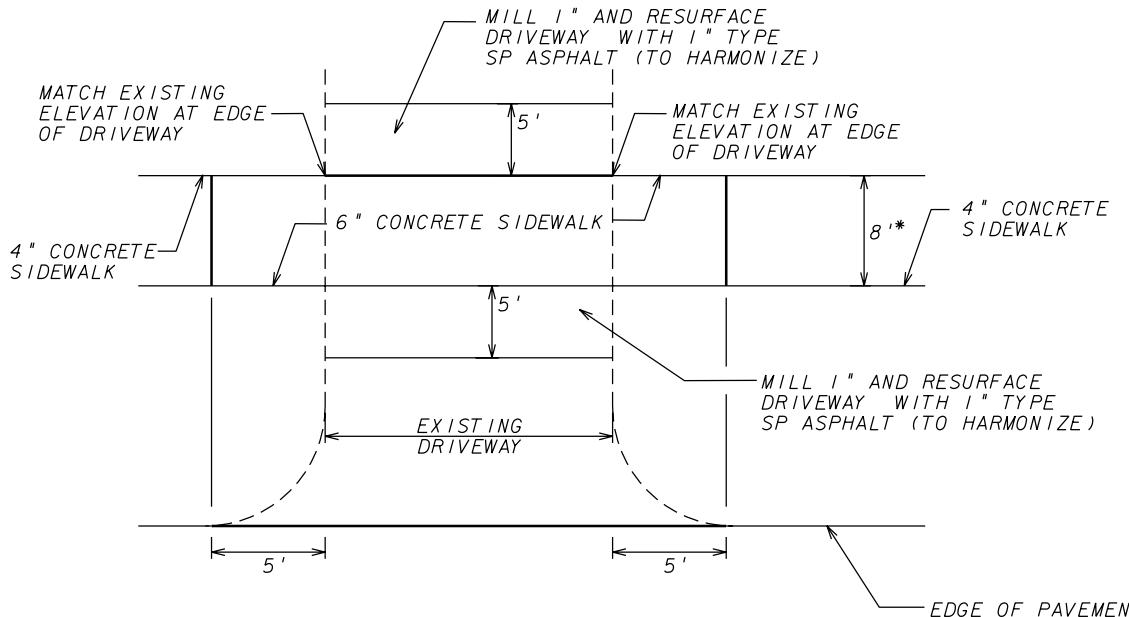
(ONE TREATMENT SHOWN FOR EACH LOCATION. TREATMENT FOR OPPOSITE SIDES OF THE ROAD CAN BE SUBSTITUTED SYMETRICALLY)

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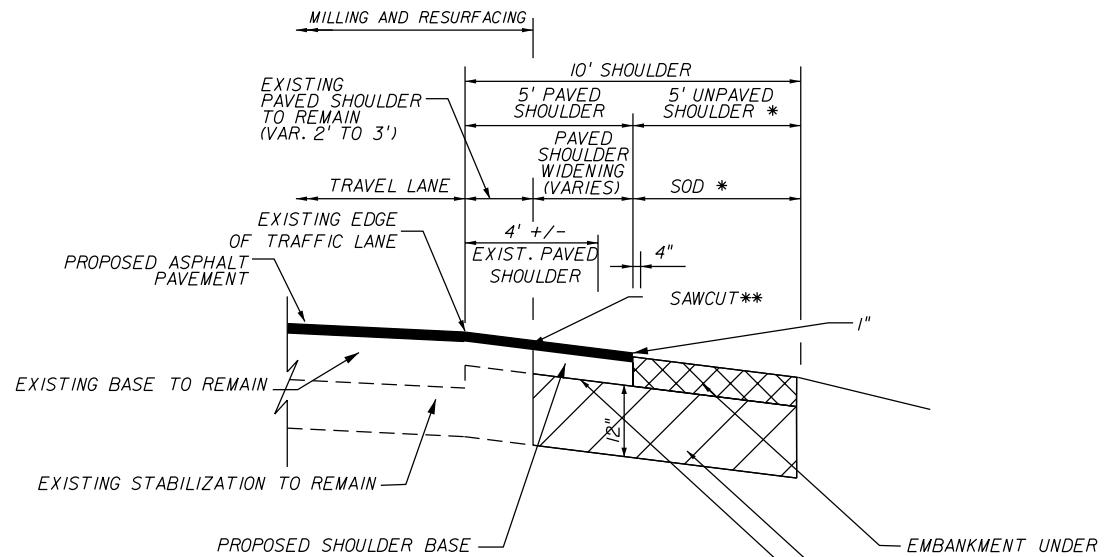
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01

SPECIAL DETAILS



* SLOPE AT 2% (TYP.) IN THE DIRECTION OF EXISTING GROUND.
REFER TO CROSS SLOPE FOR PROPOSED ELEVATIONS ALONG BACK OF SIDEWALK.

DETAIL FOR PLACEMENT OF CONCRETE SIDEWALK



* PAVED AT DRIVEWAY LOCATIONS

** SAW CUT EXISTING SHOULDER UP TO BOTTOM OF PROPOSED BASE TO BEGIN INSTALLATION OF GEORGRID ABOVE STABILIZED SOIL. STABILIZE SOIL FROM SAW CUT LINE TO THE OUTSIDE EDGE OF THE UNPAVED SHOULDER. INSTALL PROPOSED GEORGRID ABOVE FULL WIDTH OF STABILIZED SOIL. PLACE PROPOSED BASE ABOVE GEORGRID FOR AREA OF PROPOSED PAVED SHOULDER. FOR AREA OF UNPAVED SHOULDER, USE EMBANKMENT TO FILL ABOVE PROPOSED GEORGRID UP TO PROPOSED ELEVATION OF SOD.

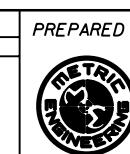
ULTIMATE TENSILE STRENGTH (MACHINE DIRECTION): 1,315 LB/FT
ULTIMATE TENSILE STRENGTH (CROSS DIRECTION): 1,275 LB/FT
SECANT MODULUS (2% STRAIN): 20,500 LB/FT
SECANT MODULUS (5% STRAIN): 16,200 LB/FT
CREEP REDUCTION FACTOR: 1.6

PLACE GEORGRID FOR SHOULDER WIDENING WITHIN THE FOLLOWING LIMITS:

FROM STA. 849+50 TO STA. 850+50
FROM STA. 861+50 TO STA. 862+50
FROM STA. 865+50 TO STA. 866+50
FROM STA. 871+50 TO STA. 872+50
FROM STA. 873+50 TO STA. 874+50
FROM STA. 883+50 TO STA. 884+50
FROM STA. 889+50 TO STA. 890+50
FROM STA. 897+50 TO STA. 898+50
FROM STA. 901+50 TO STA. 902+50
FROM STA. 917+50 TO STA. 918+50
FROM STA. 927+50 TO STA. 928+50
FROM STA. 929+50 TO STA. 930+50
FROM STA. 947+50 TO STA. 948+50
FROM STA. 975+50 TO STA. 976+50

TYPICAL SHOULDER WIDENING DETAIL FOR SECTIONS WITH GEORGRID REINFORCEMENT

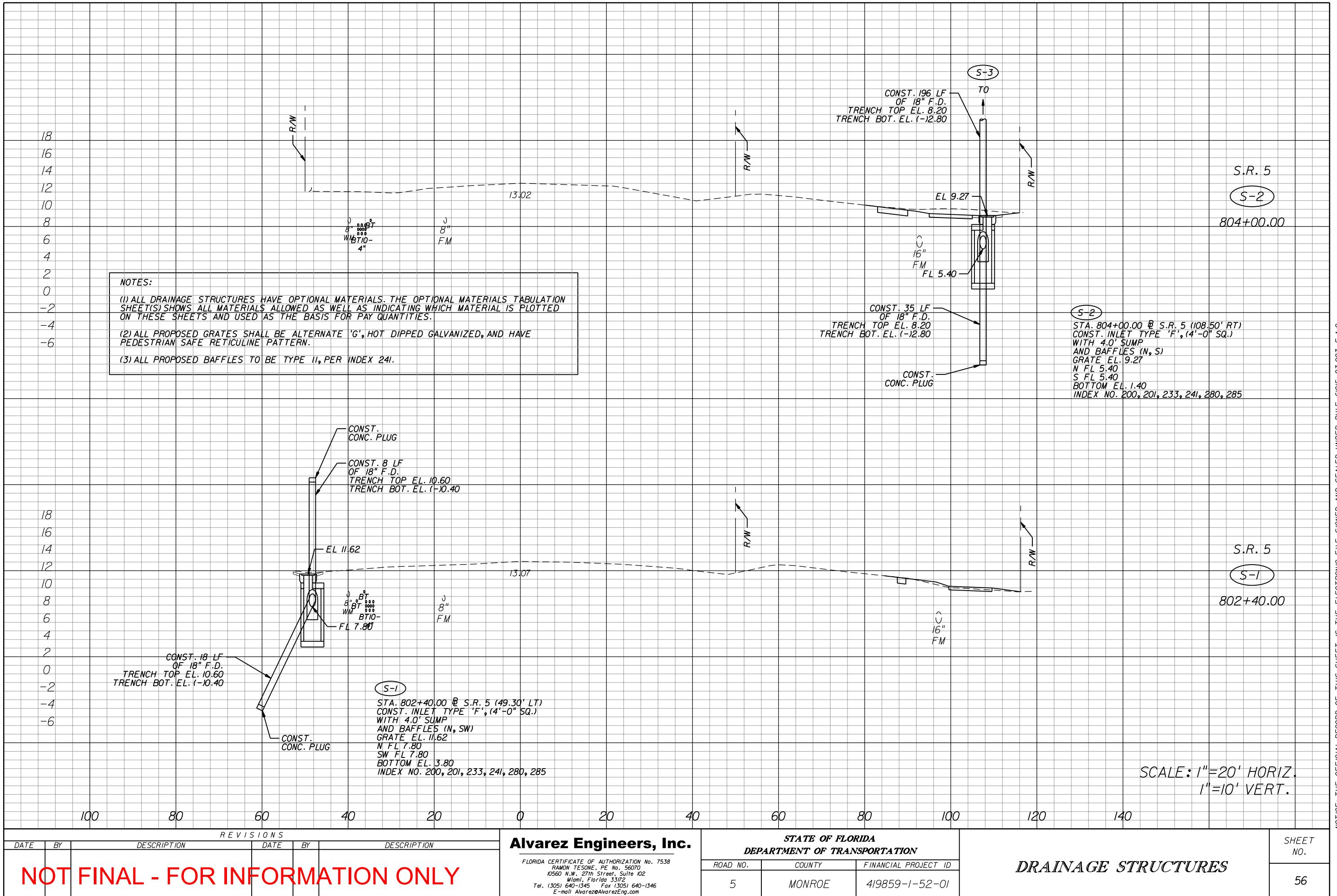
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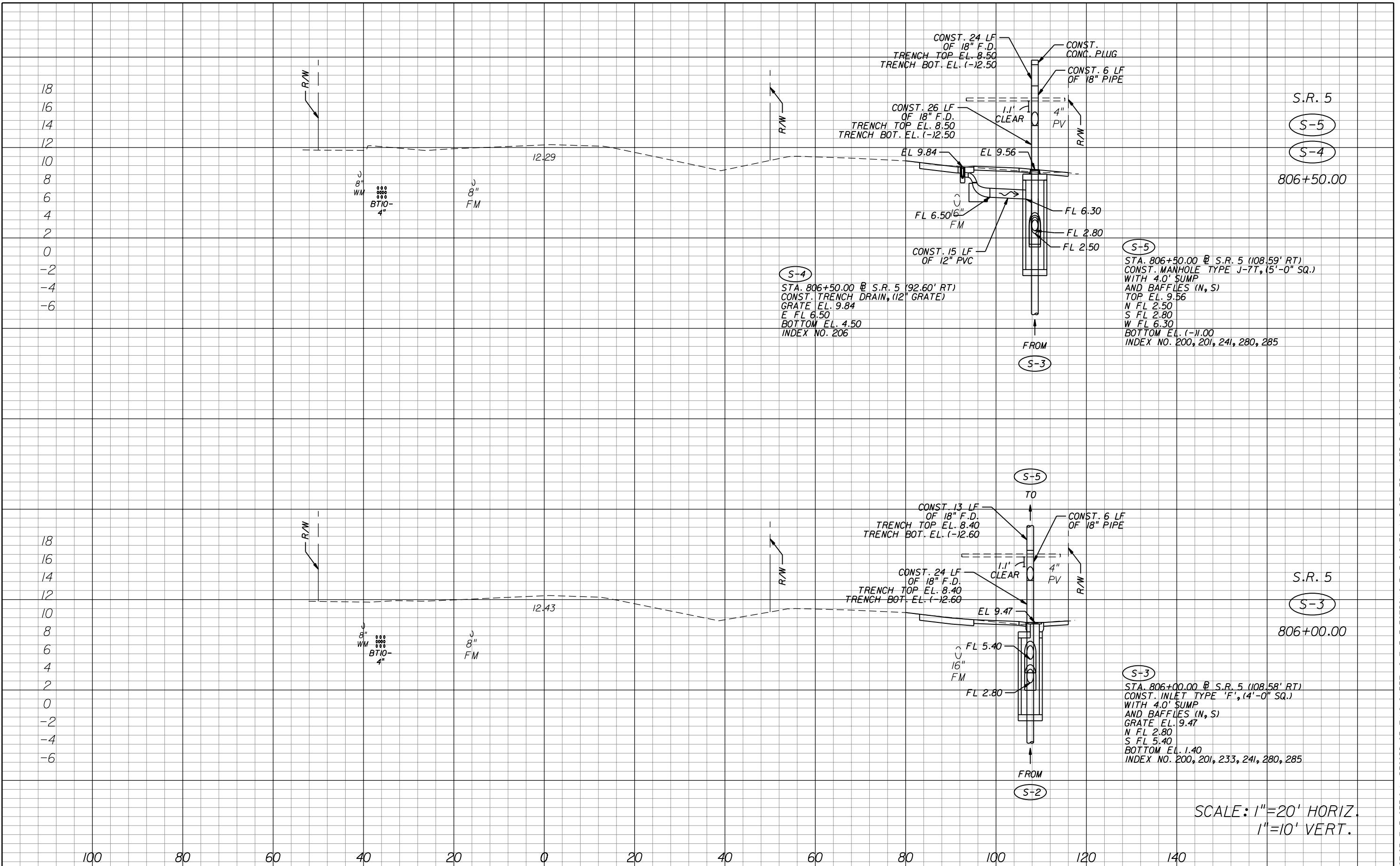


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FRANK PANELLAS, PE No. 59448
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SPECIAL DETAILS





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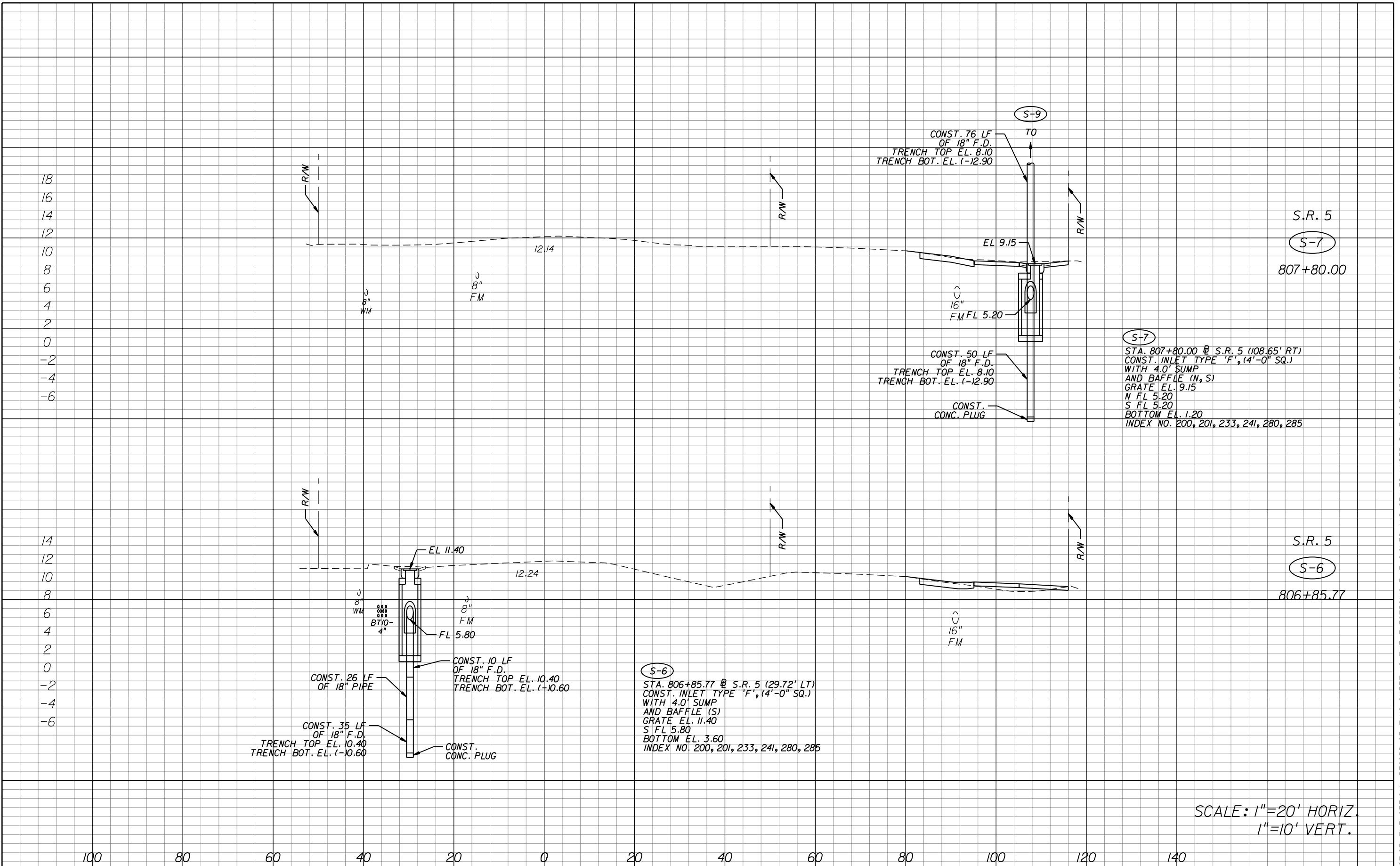
FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
RAMON TESONE, PE No. 56070
10560 N.W. 27th Street, Suite 102
Miami, Florida 33172
Tel. (305) 640-1345 Fax (305) 640-1346
E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

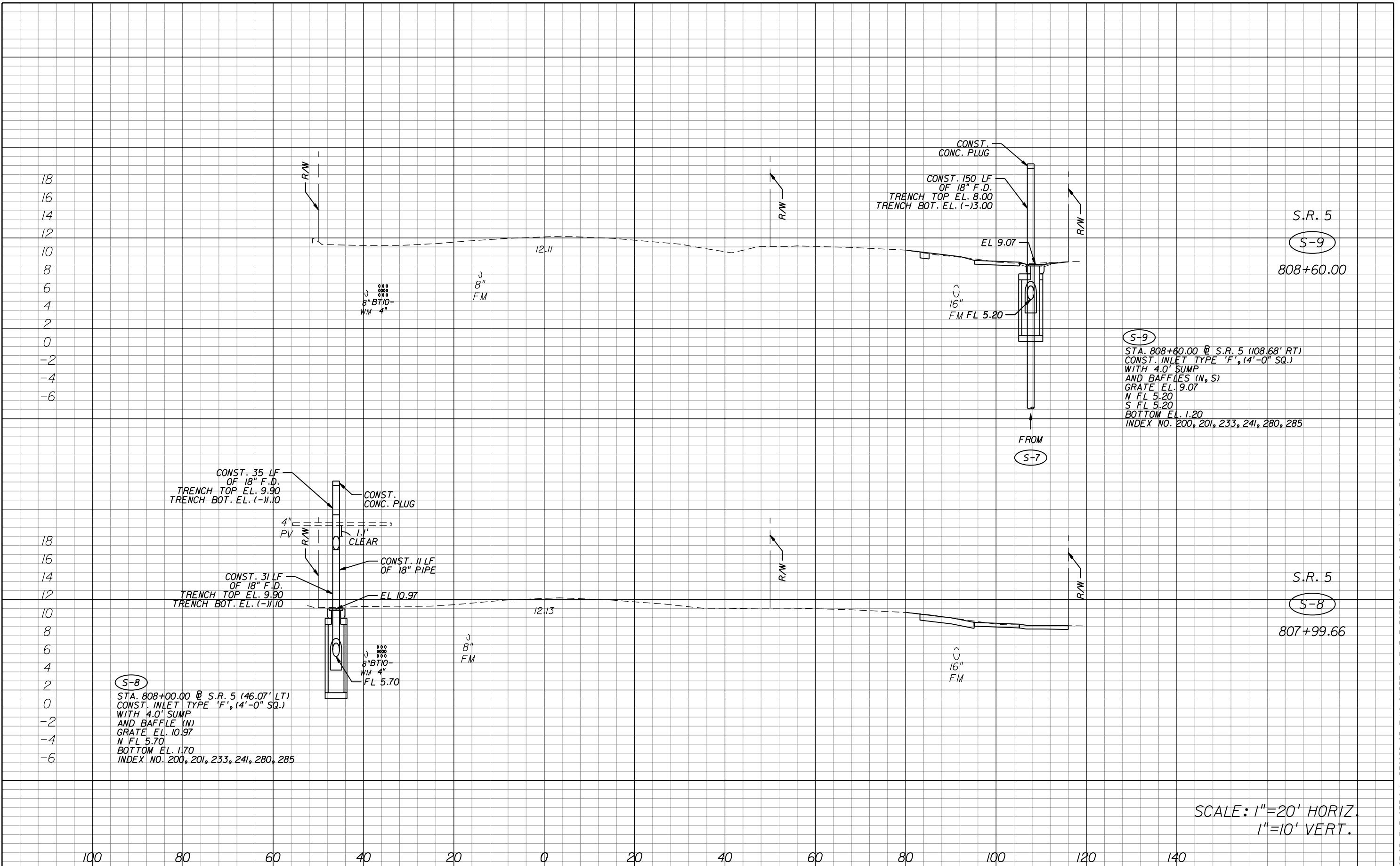
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES

SHEET NO.
57



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
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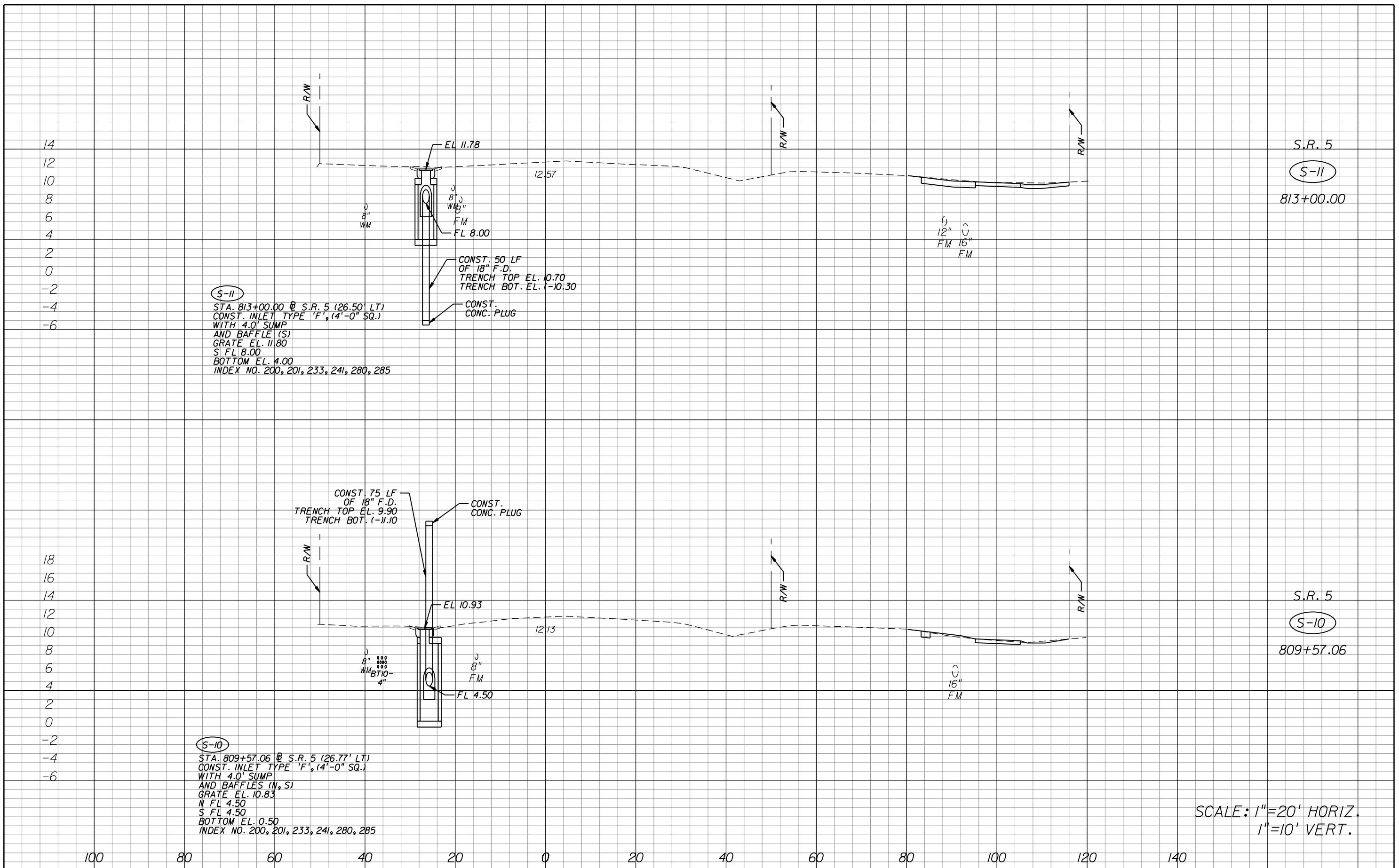
Alvarez Engineers, Inc.

FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
RAMON TESONE, PE No. 56070
10560 N.W. 27th Street, Suite 102
Miami, Florida 33172
Tel. (305) 640-1345 Fax (305) 640-1346
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

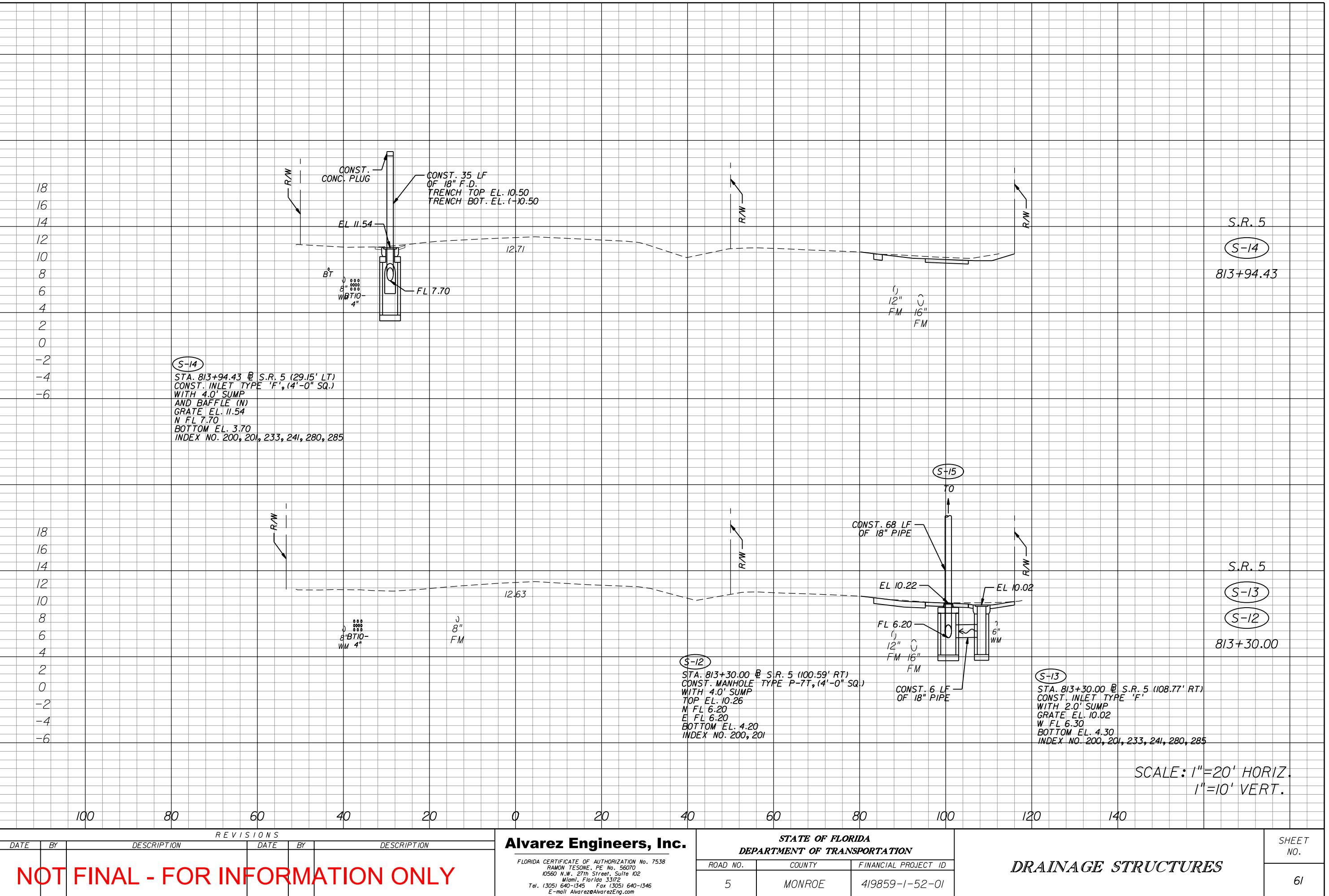
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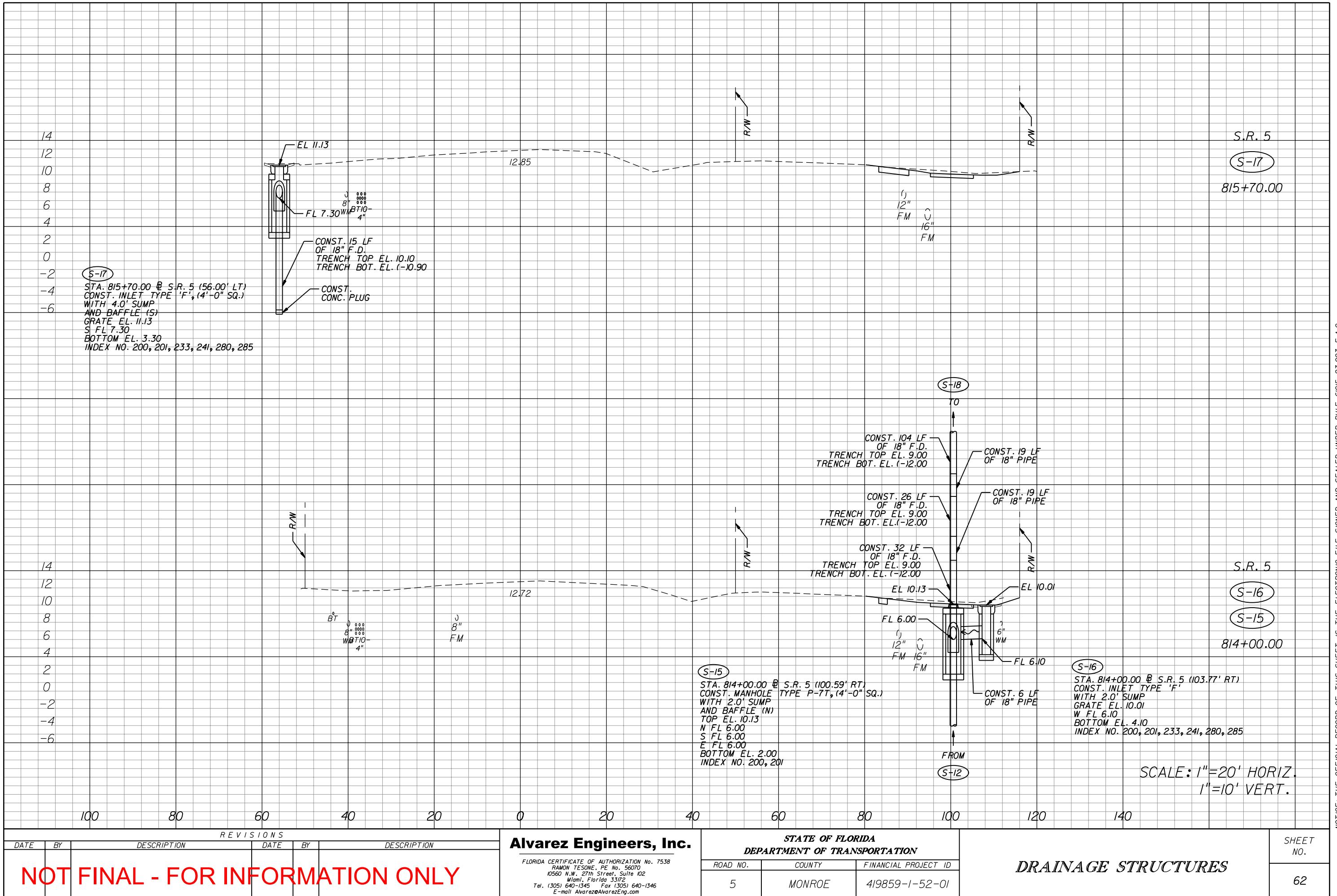
DRAINAGE STRUCTURES

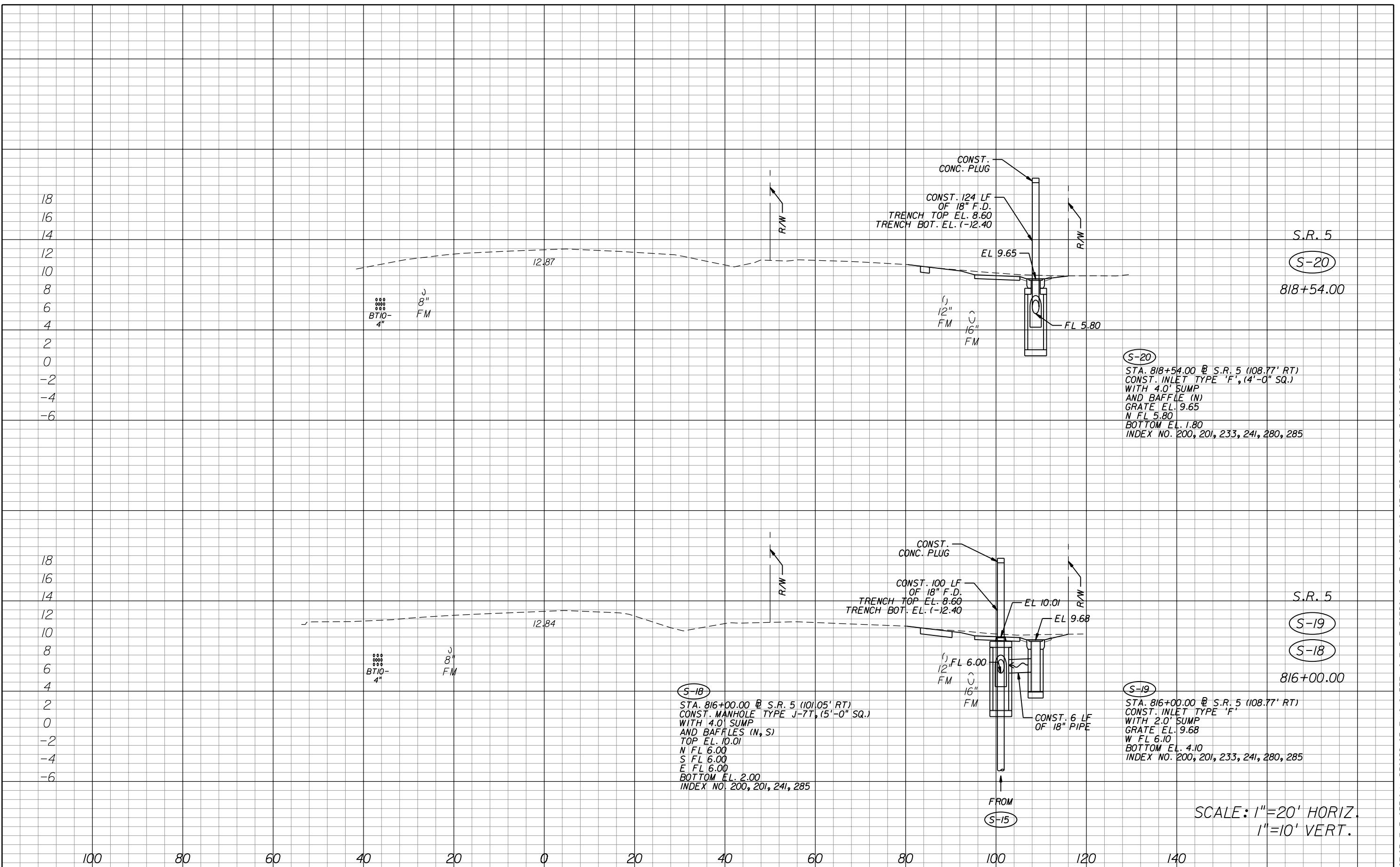


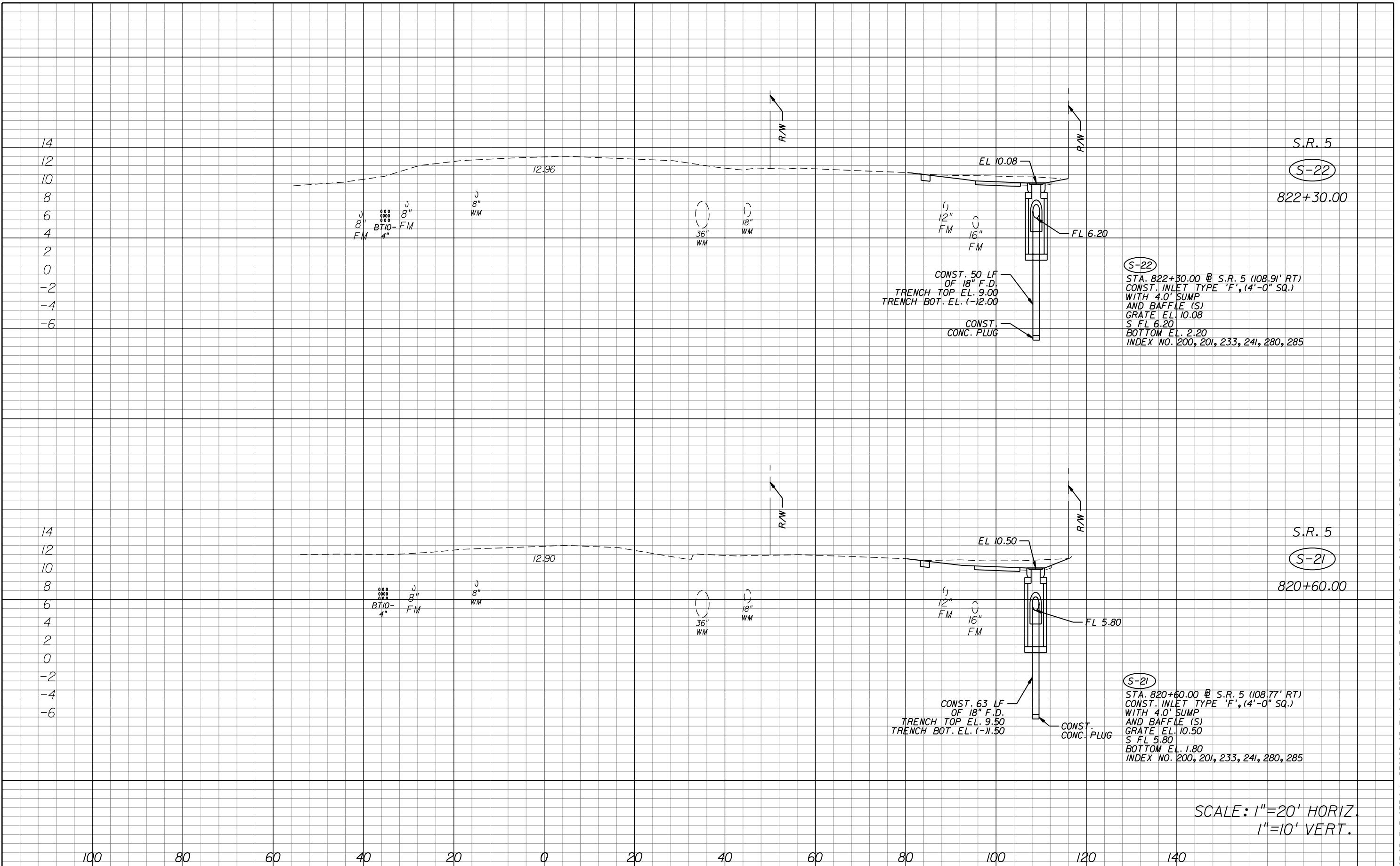
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REVISIONS						Alvarez Engineers, Inc.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	DRAINAGE STRUCTURES	SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				60	
		NOT FINAL - FOR INFORMATION ONLY				FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538 RAMON TESONE, PE No. 56070 10560 N.W. 27th Street, Suite 102 Miami, Florida 33172 Tel. (305) 640-1345 Fax (305) 640-1346 E-mail Alvarez@AlvarezEng.com	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
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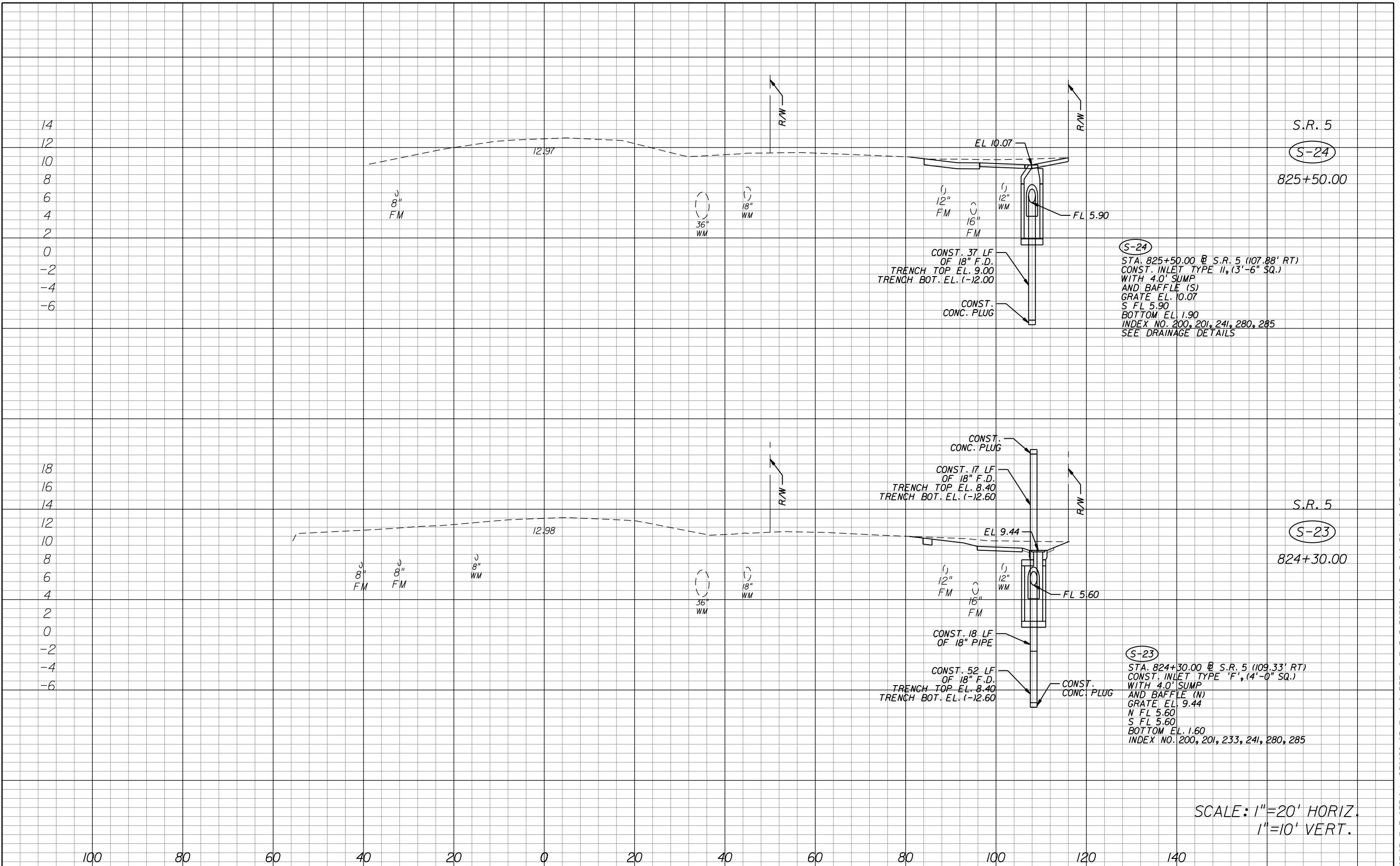








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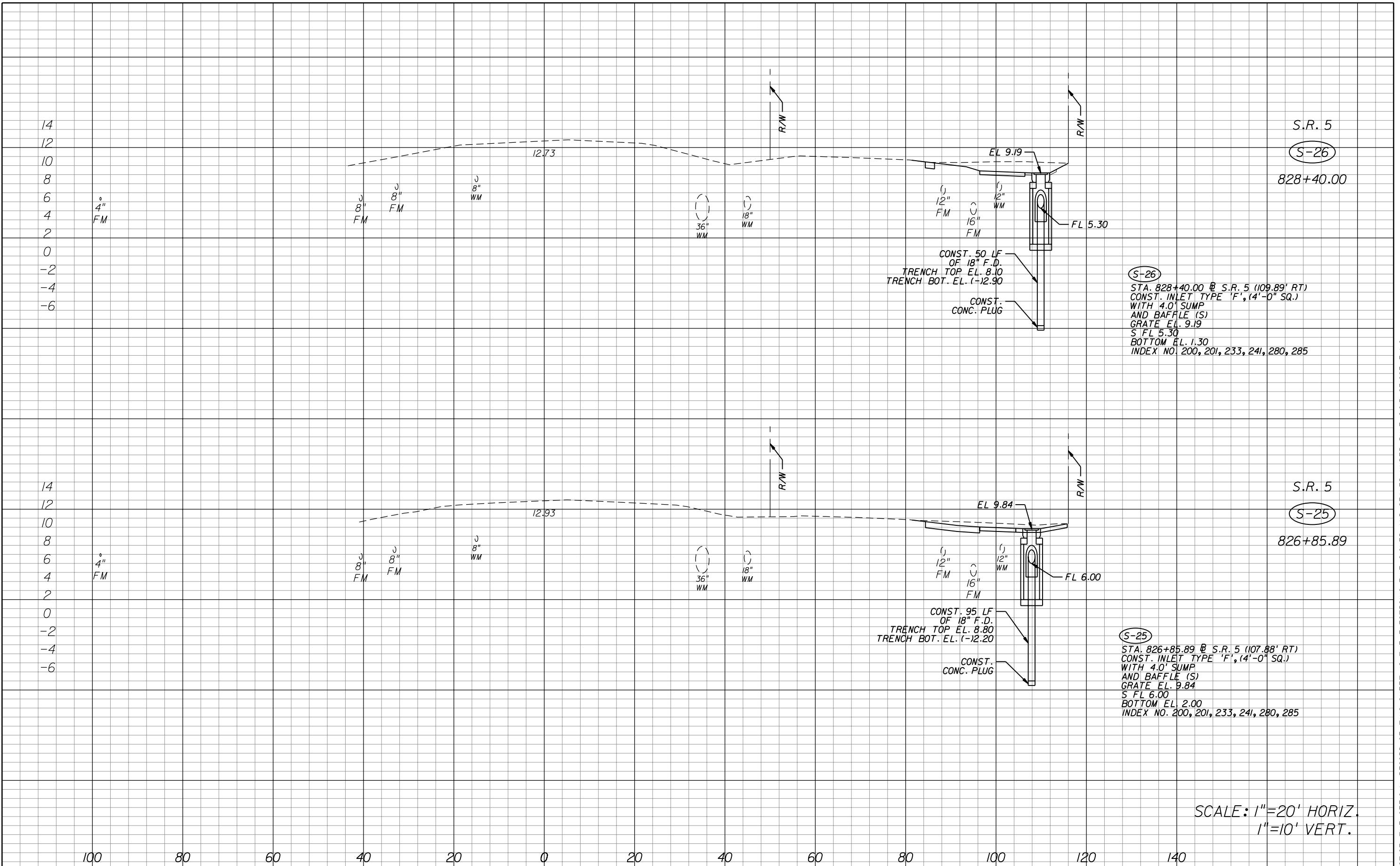


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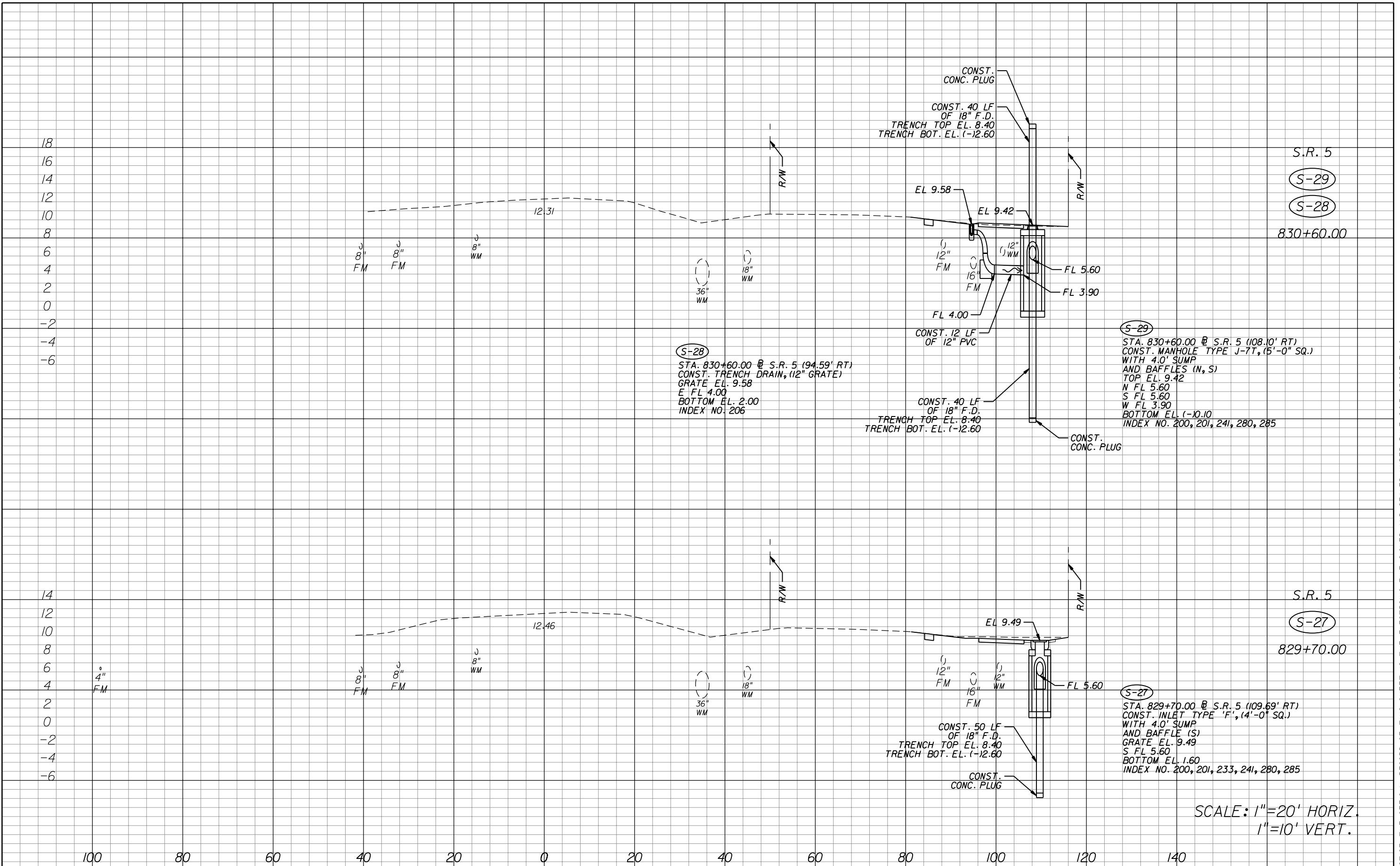
Alvarez Engineers, Inc.
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 10560 N.W. 27th Street, Suite 102
 Miami, Florida 33172
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 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01

DRAINAGE STRUCTURES



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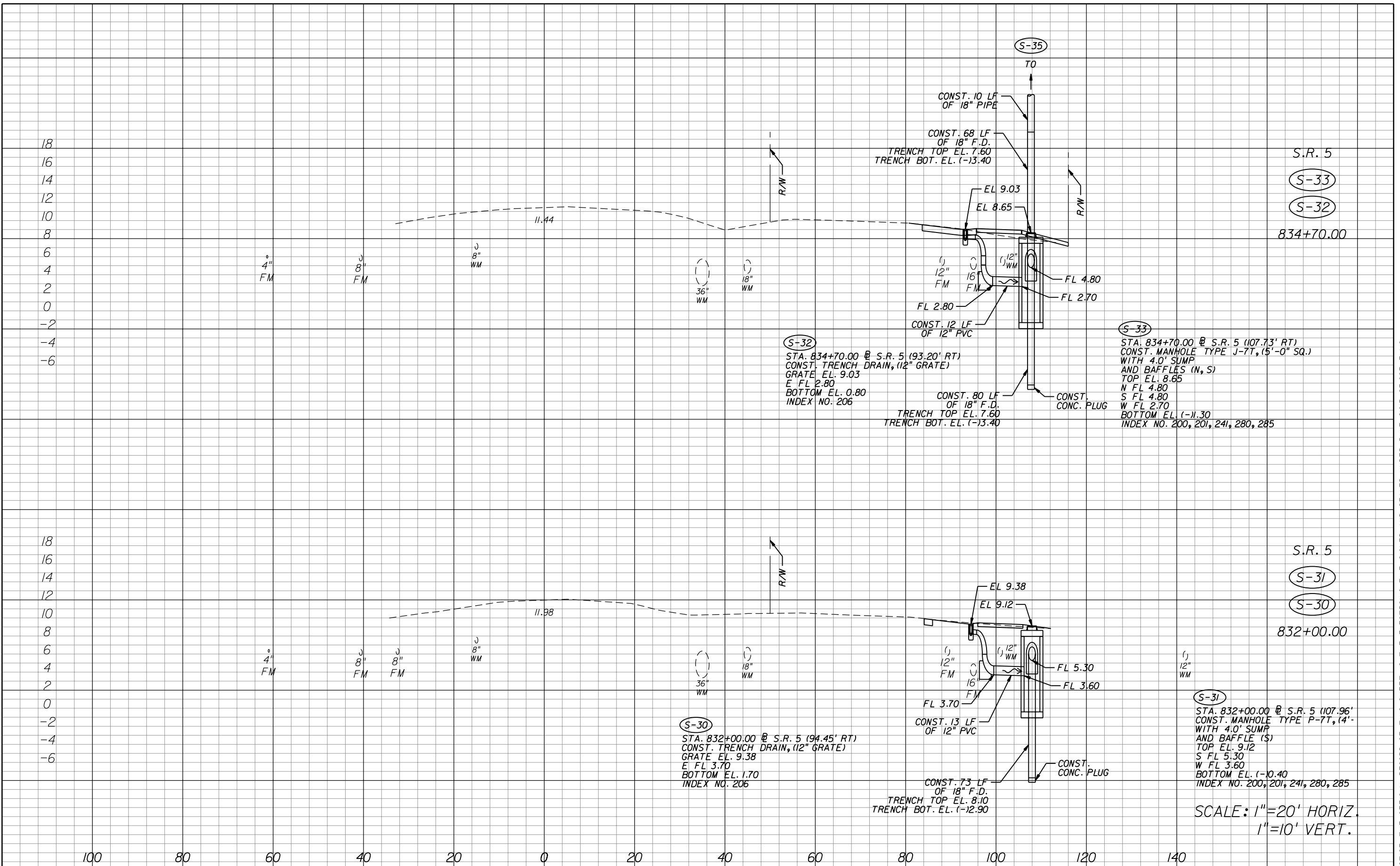
Alvarez Engineers, Inc.

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5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



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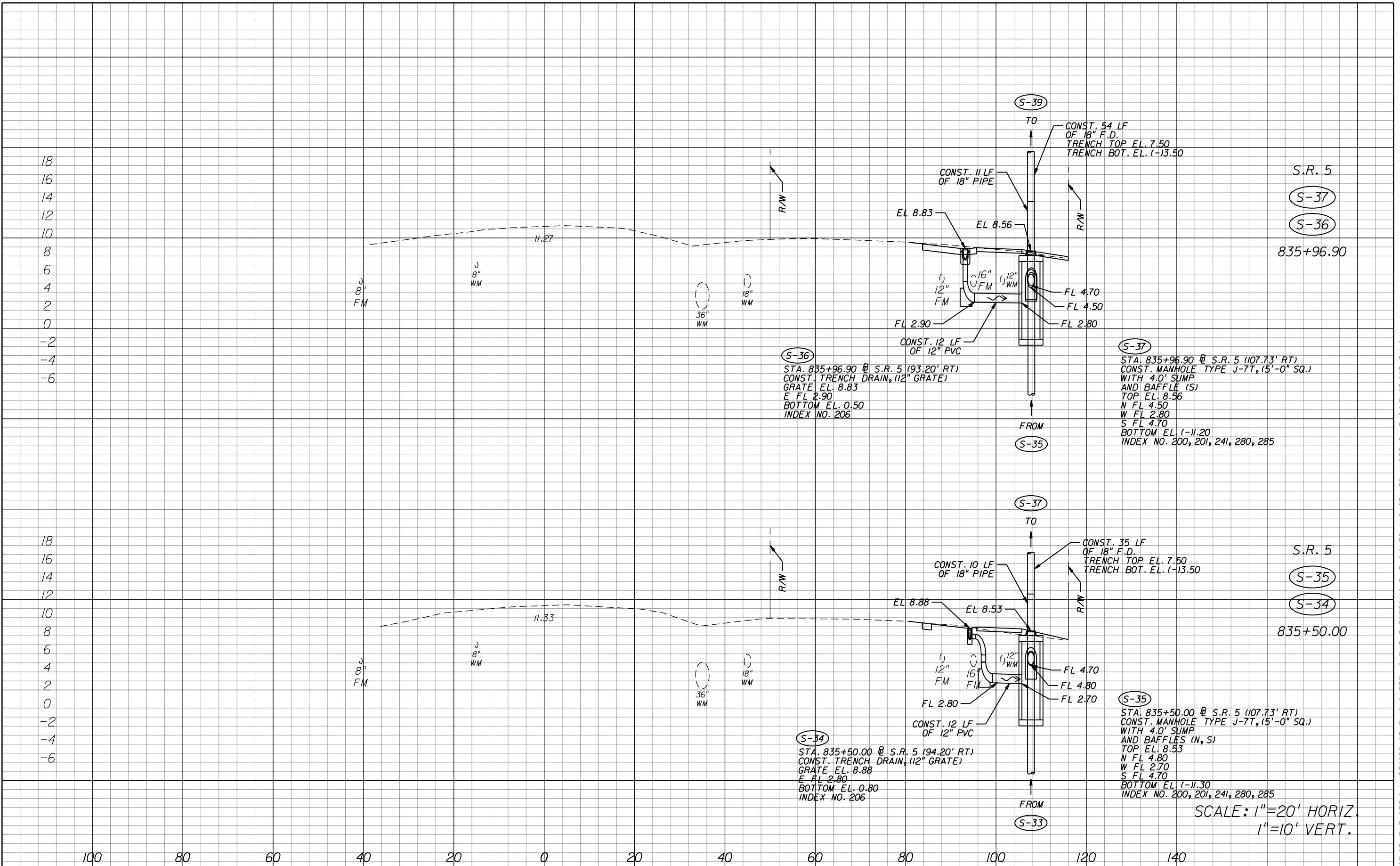
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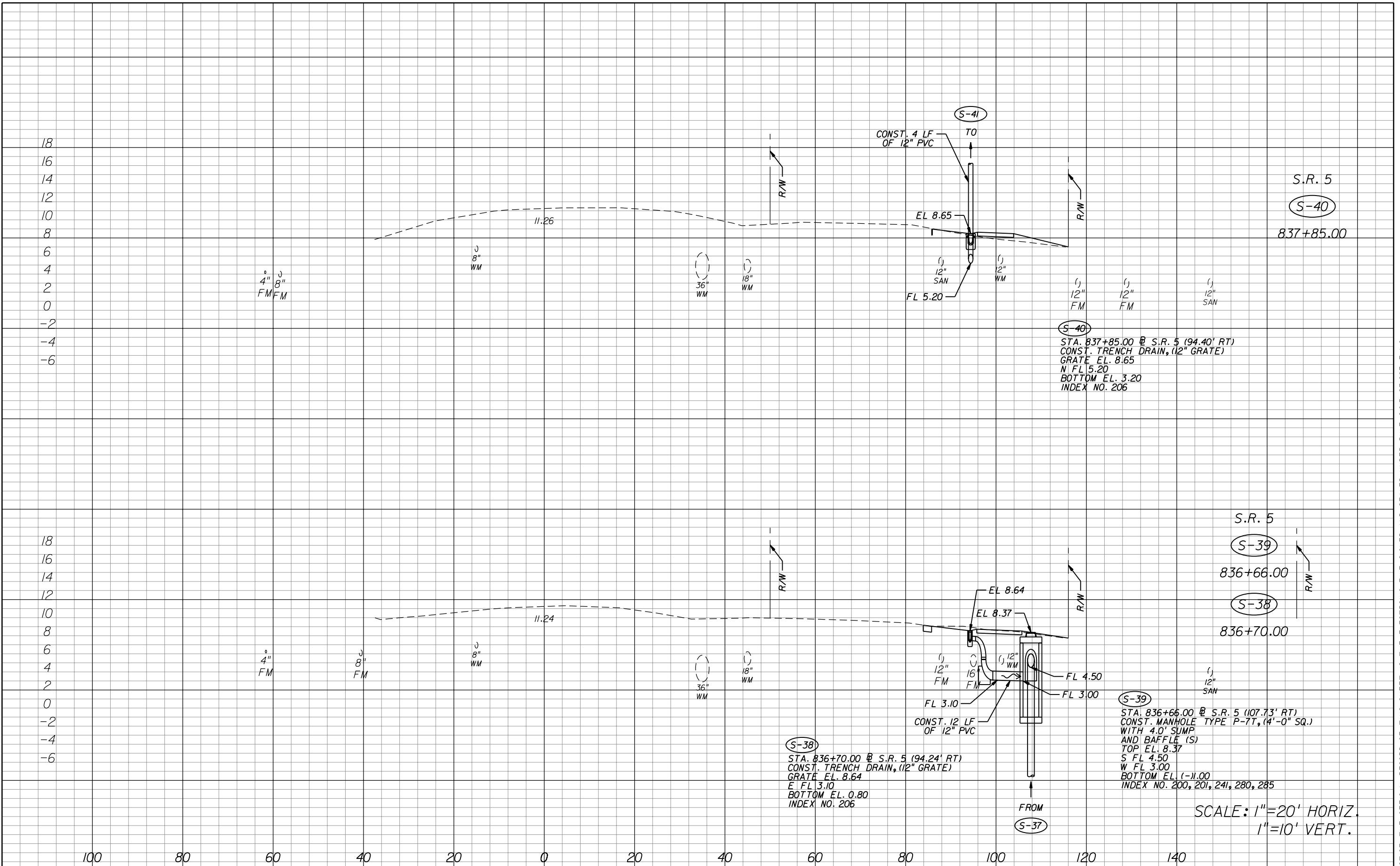
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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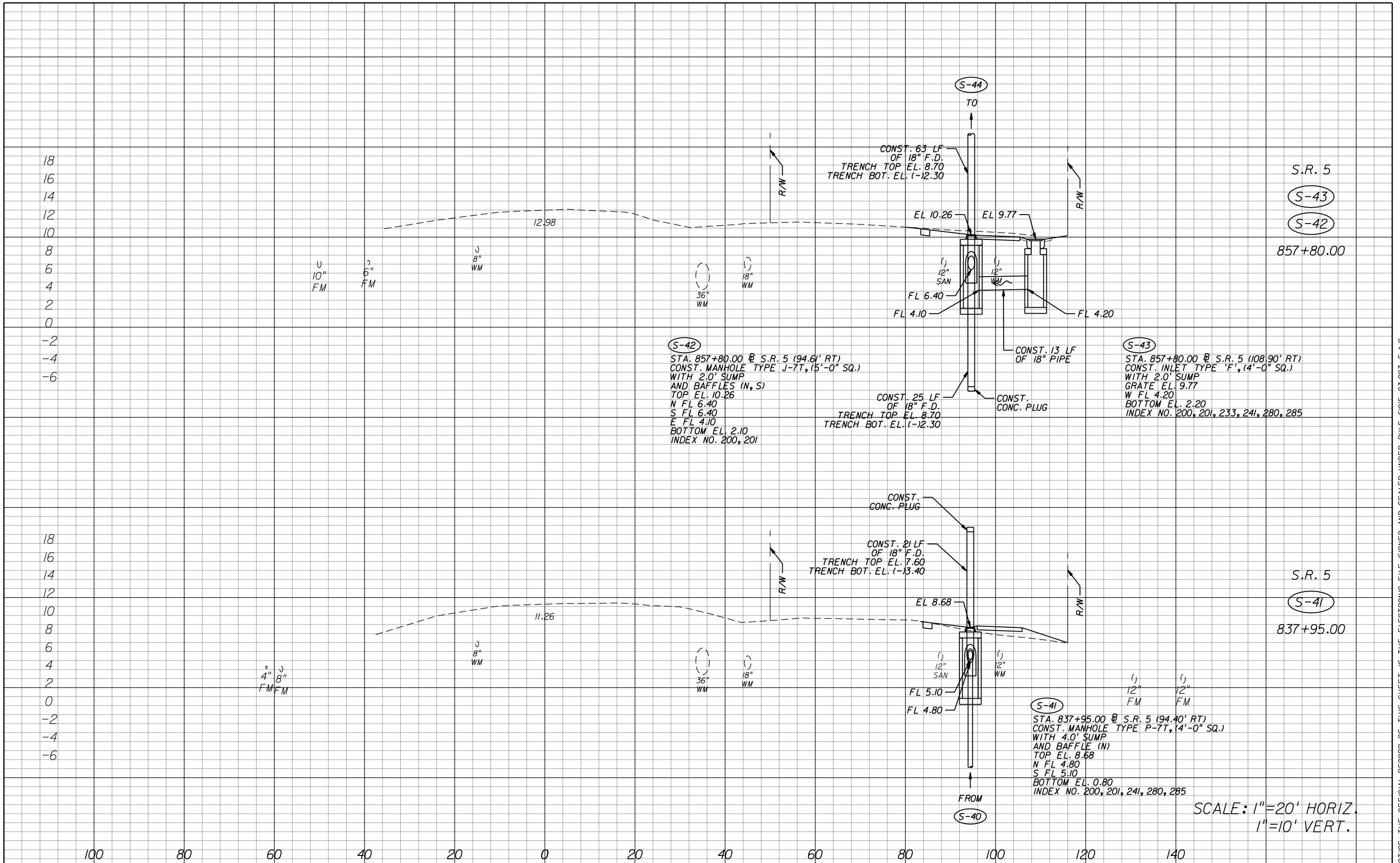
DRAINAGE STRUCTURES



REVISIONS		Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
		NOT FINAL - FOR INFORMATION ONLY			FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538 RAMON TESONE, PE No. 56070 10560 N.W. 27th Street, Suite 102 Miami, Florida 33172 Tel. (305) 640-1345 Fax (305) 640-1346 E-mail Alvarez@AlvarezEng.com	5	MONROE	419859-1-52-01	minastrilla	6/8/2012	11:25:07 AM	Z:\FDOT\419859\5201\drainage\drxsrd04.dgn	69



REVISIONS			Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.	
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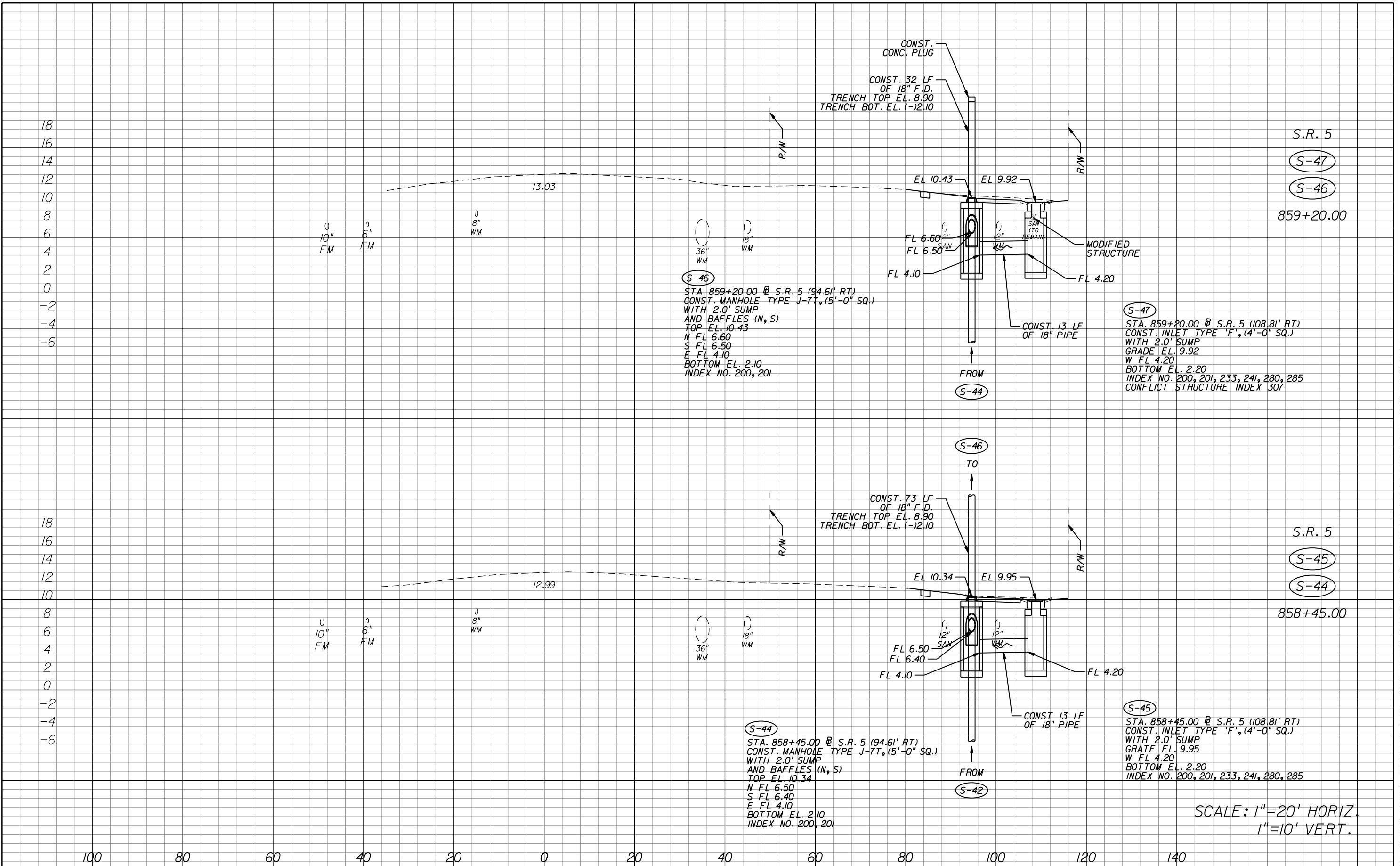
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10560 N.W. 27th Street, Suite 102
Miami, Florida 33172
Tel. (305) 640-1345 Fax (305) 640-1346
E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

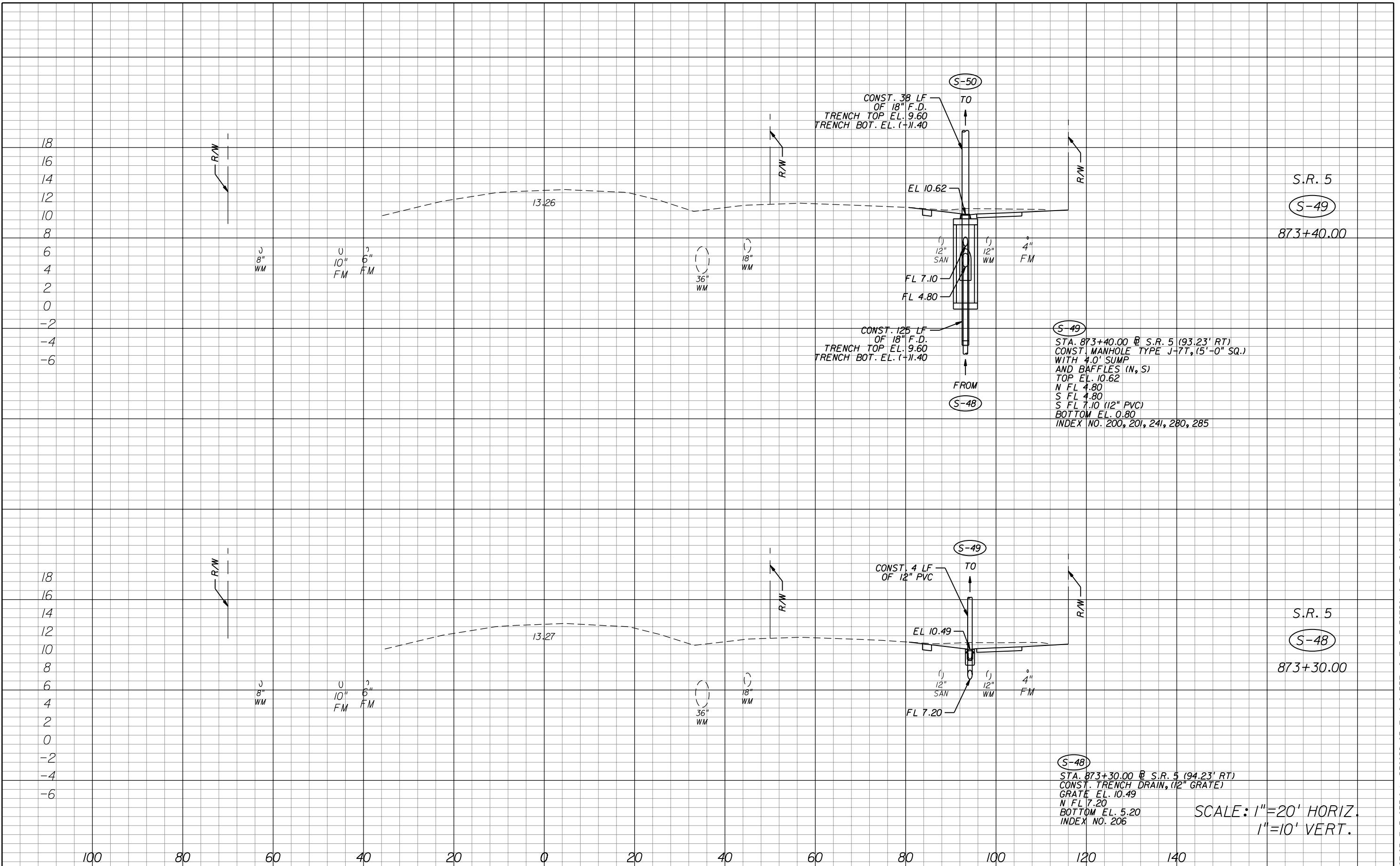
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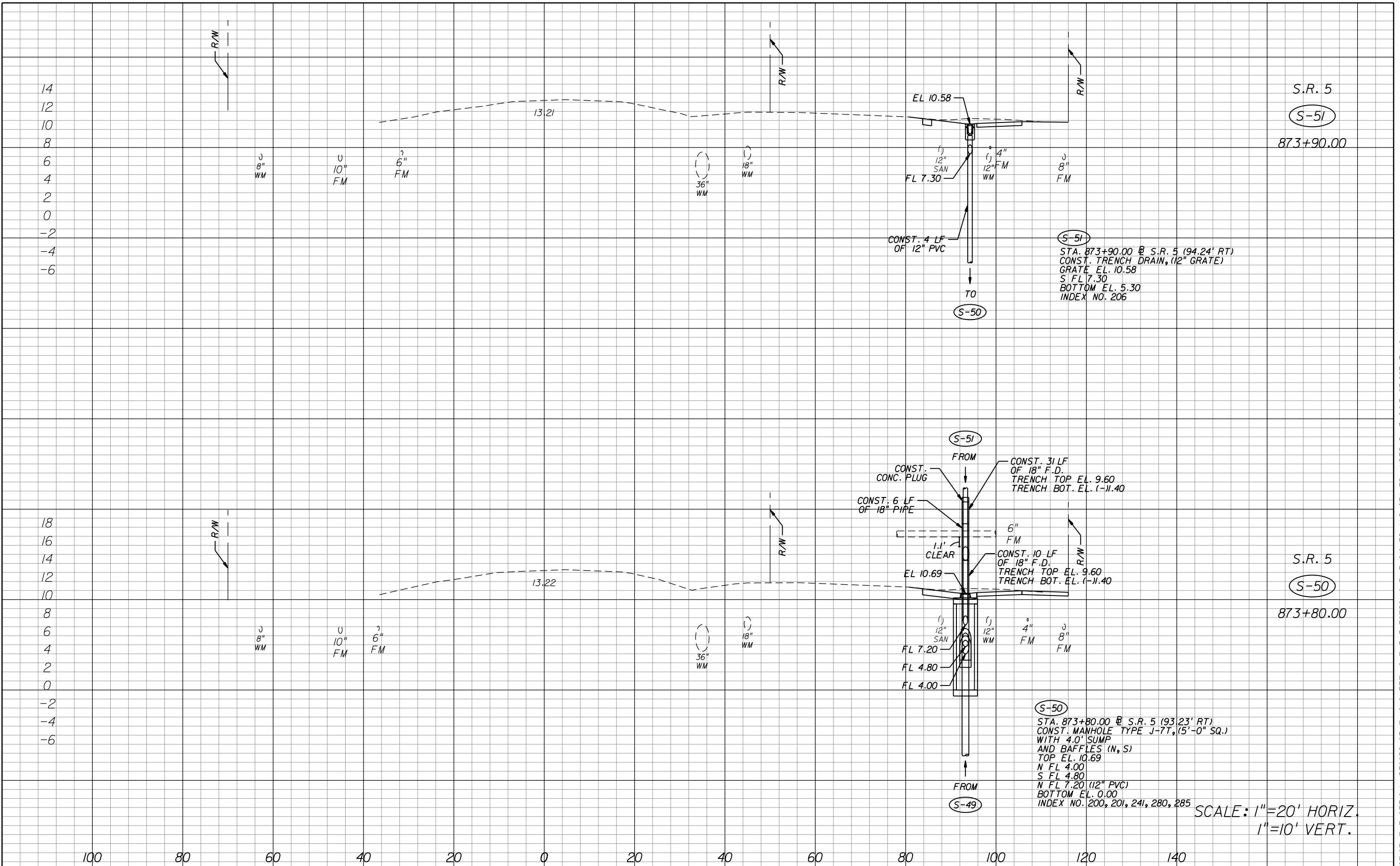
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71



REVISIONS			Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
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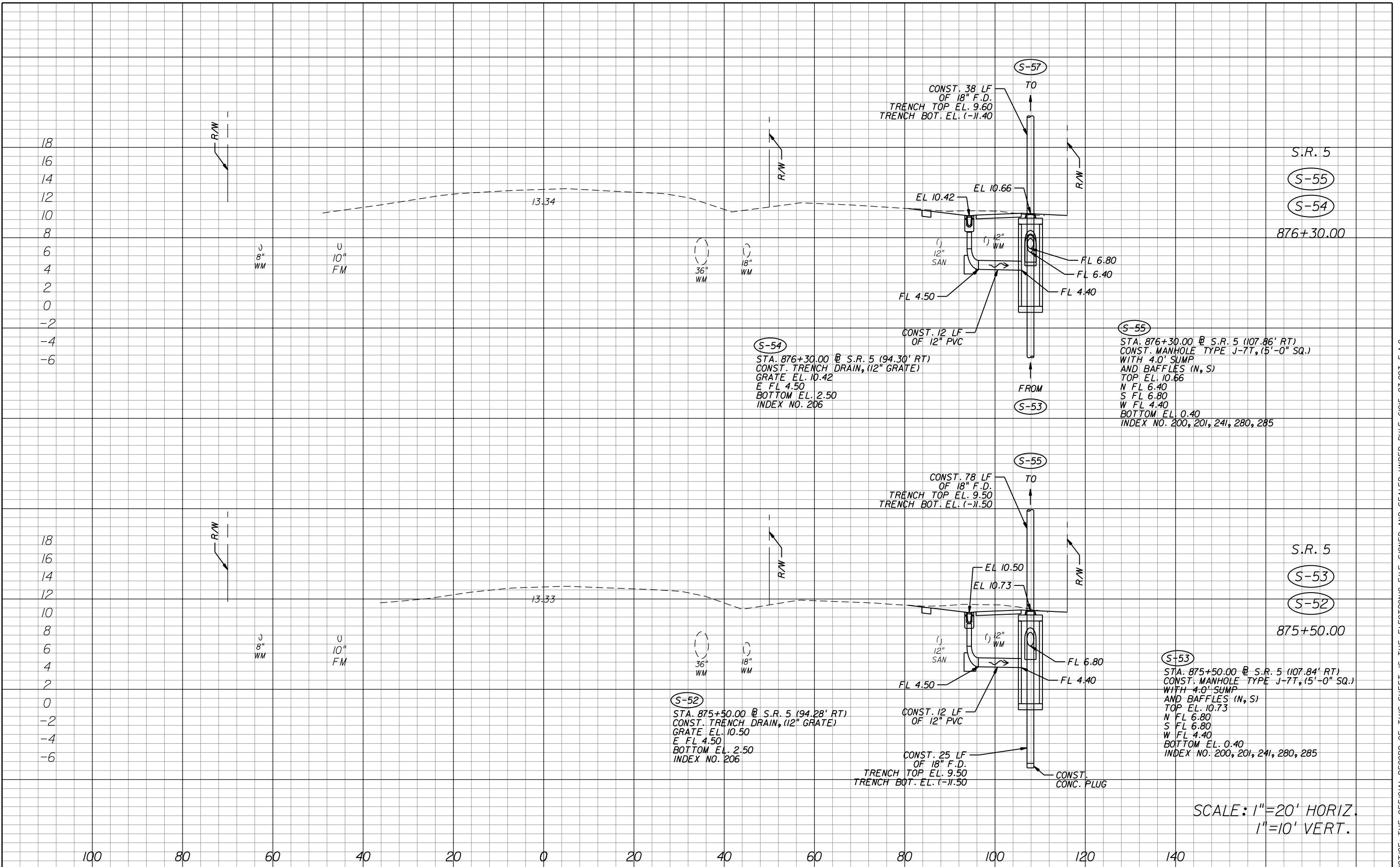
Alvarez Engineers, Inc.

FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
RAMON TESONE, PE No. 56070
10560 N.W. 27th Street, Suite 102
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E-mail Alvarez@AlvarezEng.com

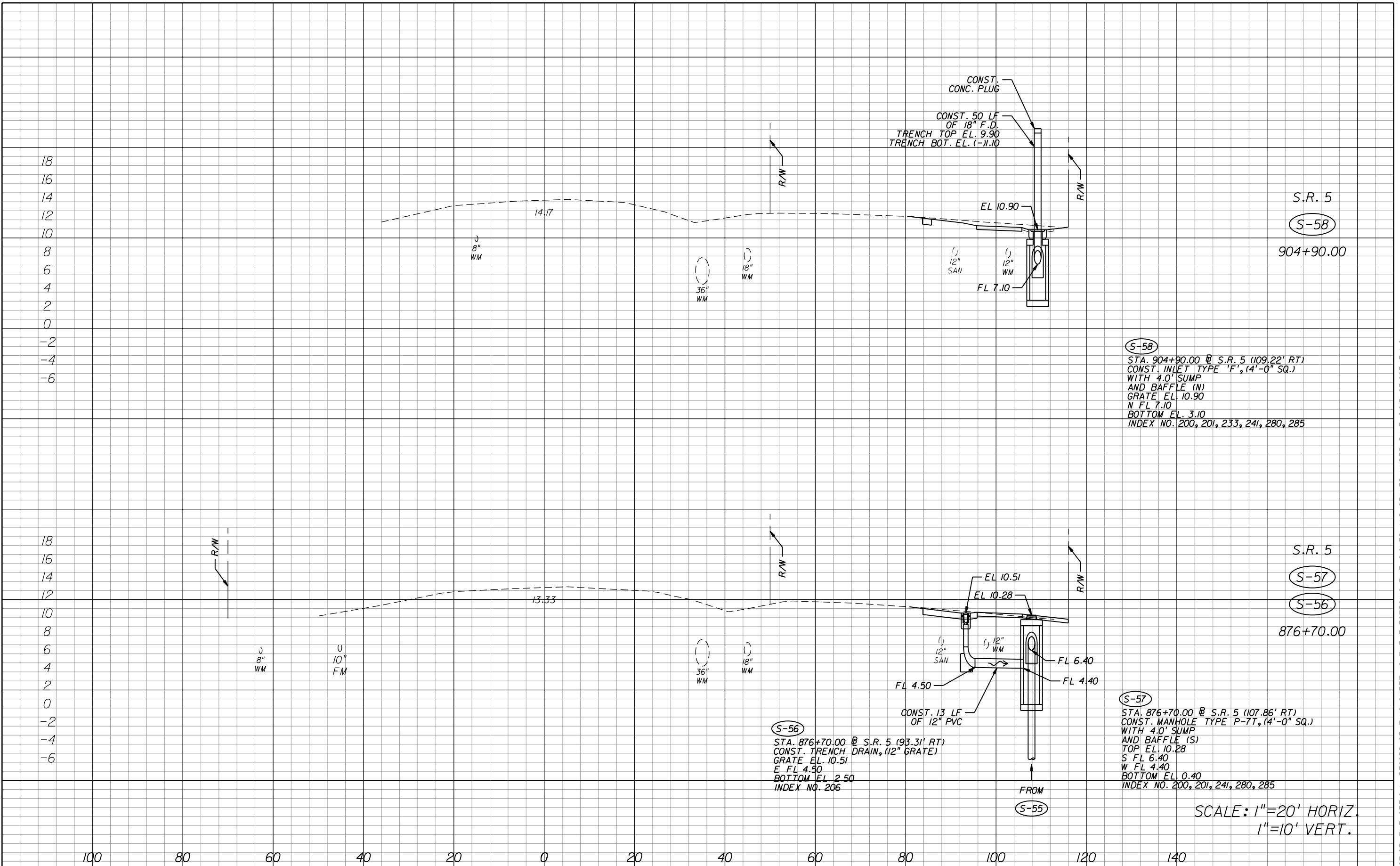
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



REVISIONS			Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				75
		NOT FINAL - FOR INFORMATION ONLY				5	MONROE	419859-1-52-01	minastrillia	6/8/2012	11:27:02 AM	Z:\FDOT\419859\5201\drainage\drxsrd04.dgn



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			

Alvarez Engineers, Inc.

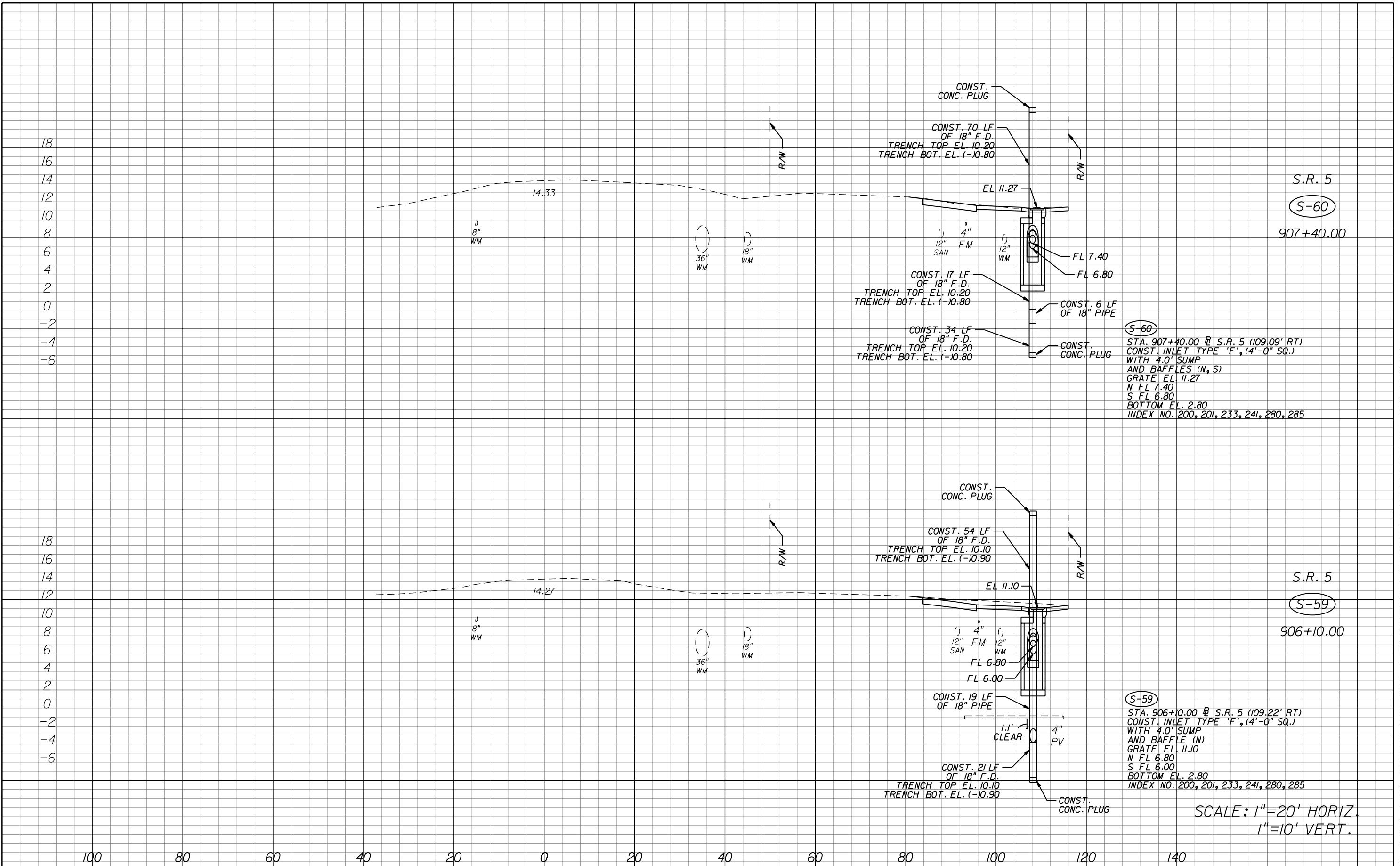
FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES

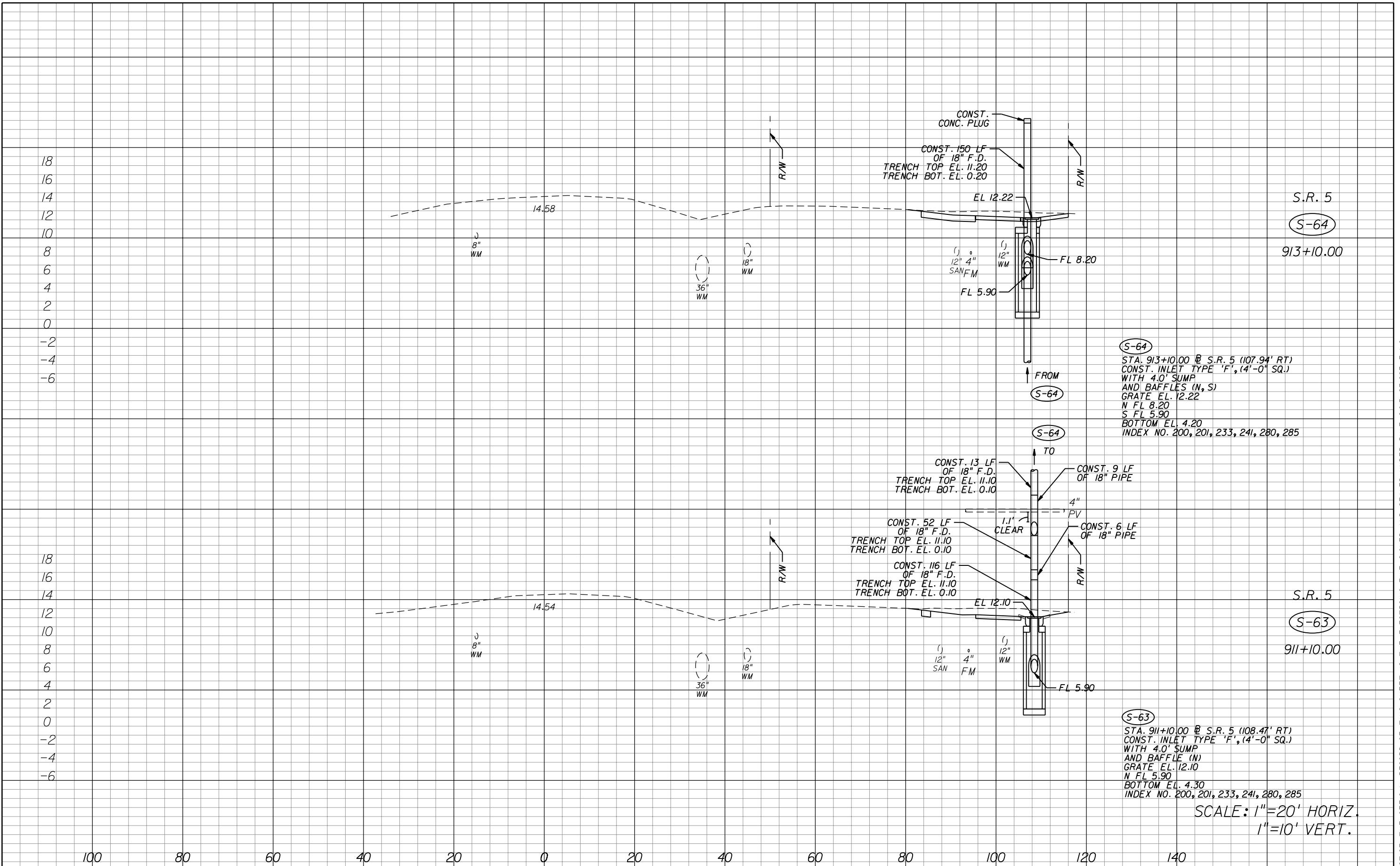
SHEET NO.
76



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
		NOT FINAL - FOR INFORMATION ONLY				5	MONROE	419859-1-52-01	minastrilla	6/8/2012	11:27:40 AM	Z:\FDOT\419859\5201\drainage\drxsrd04.dgn



REVISIONS			Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				78
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			

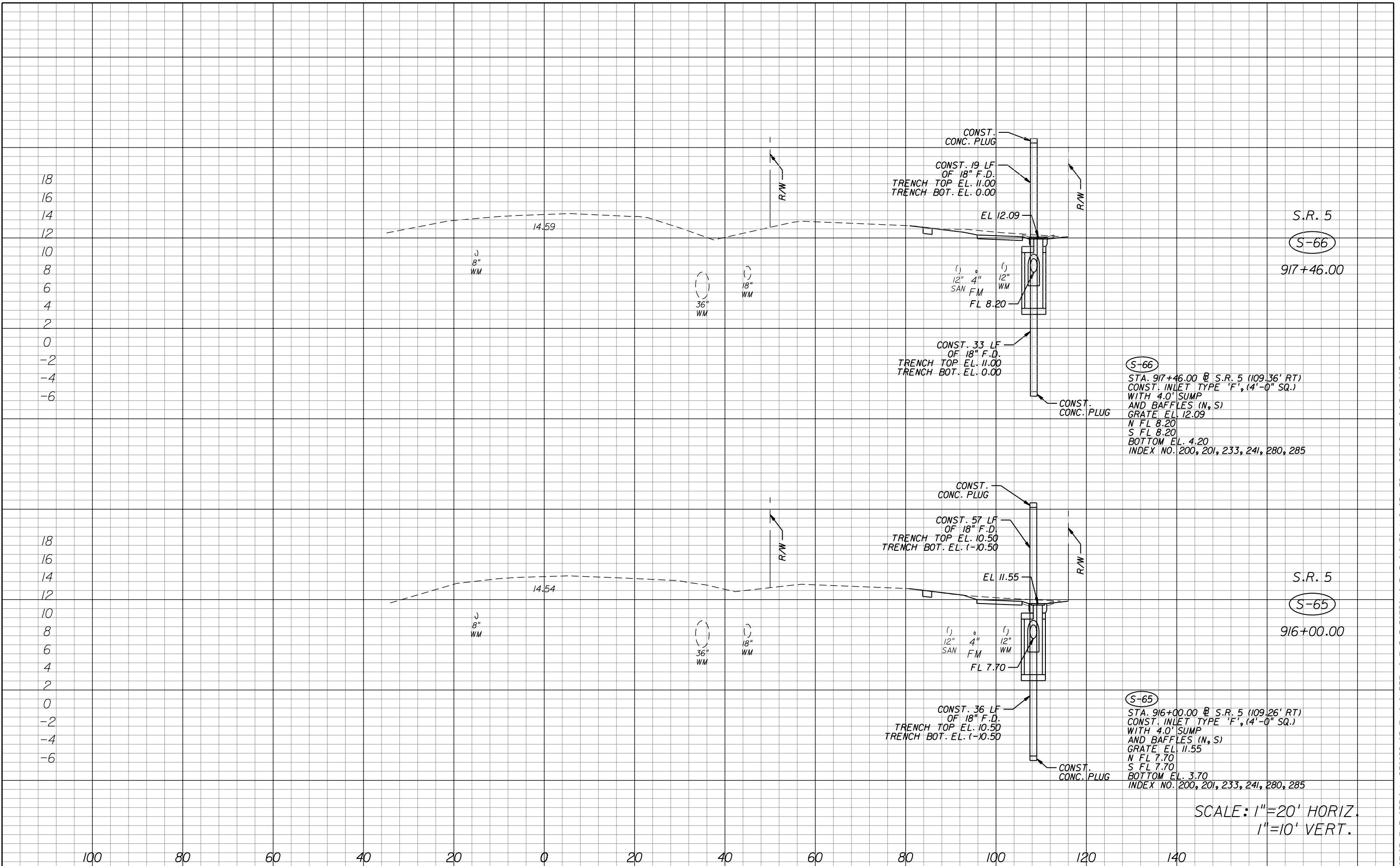
Alvarez Engineers, Inc.

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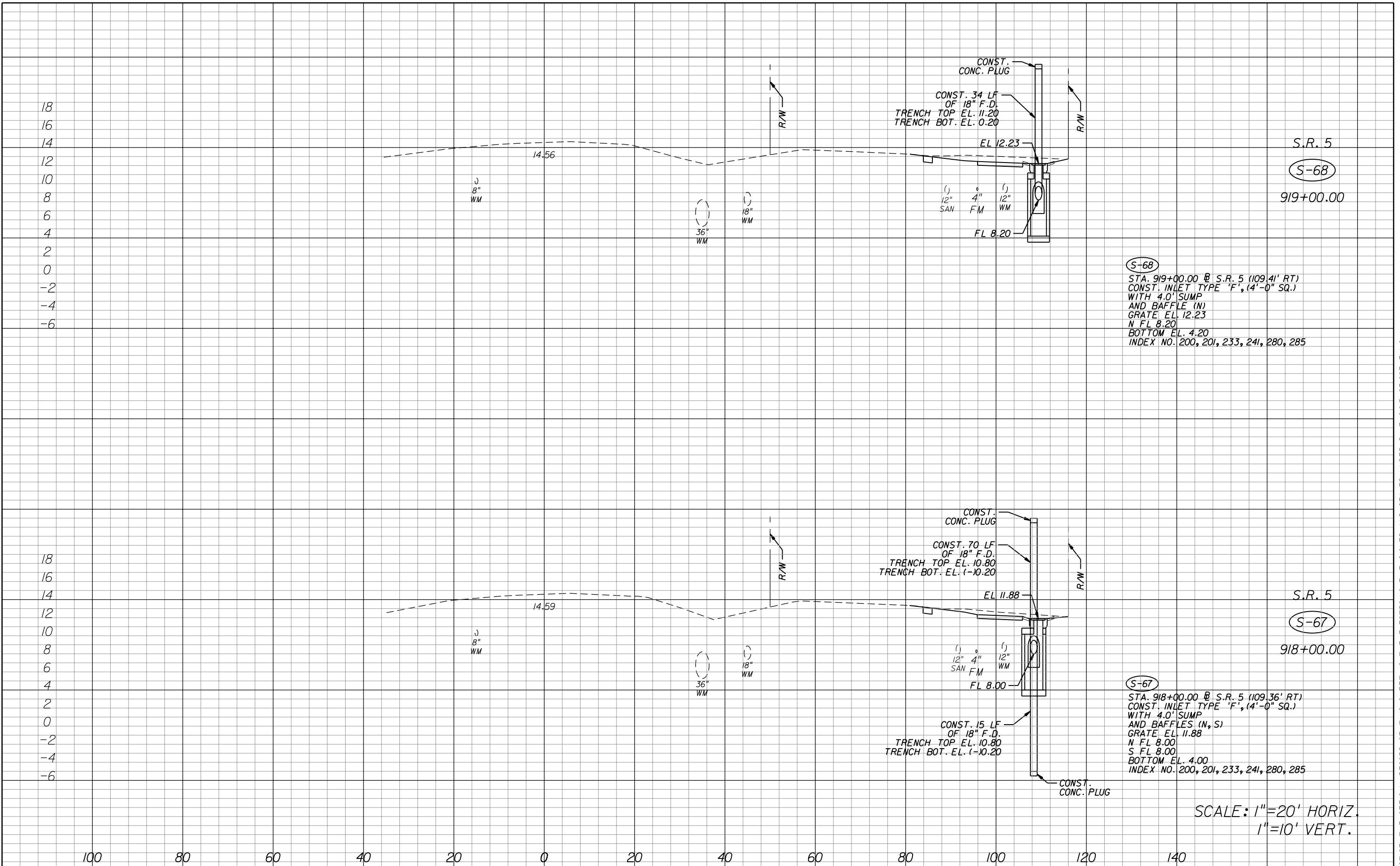
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

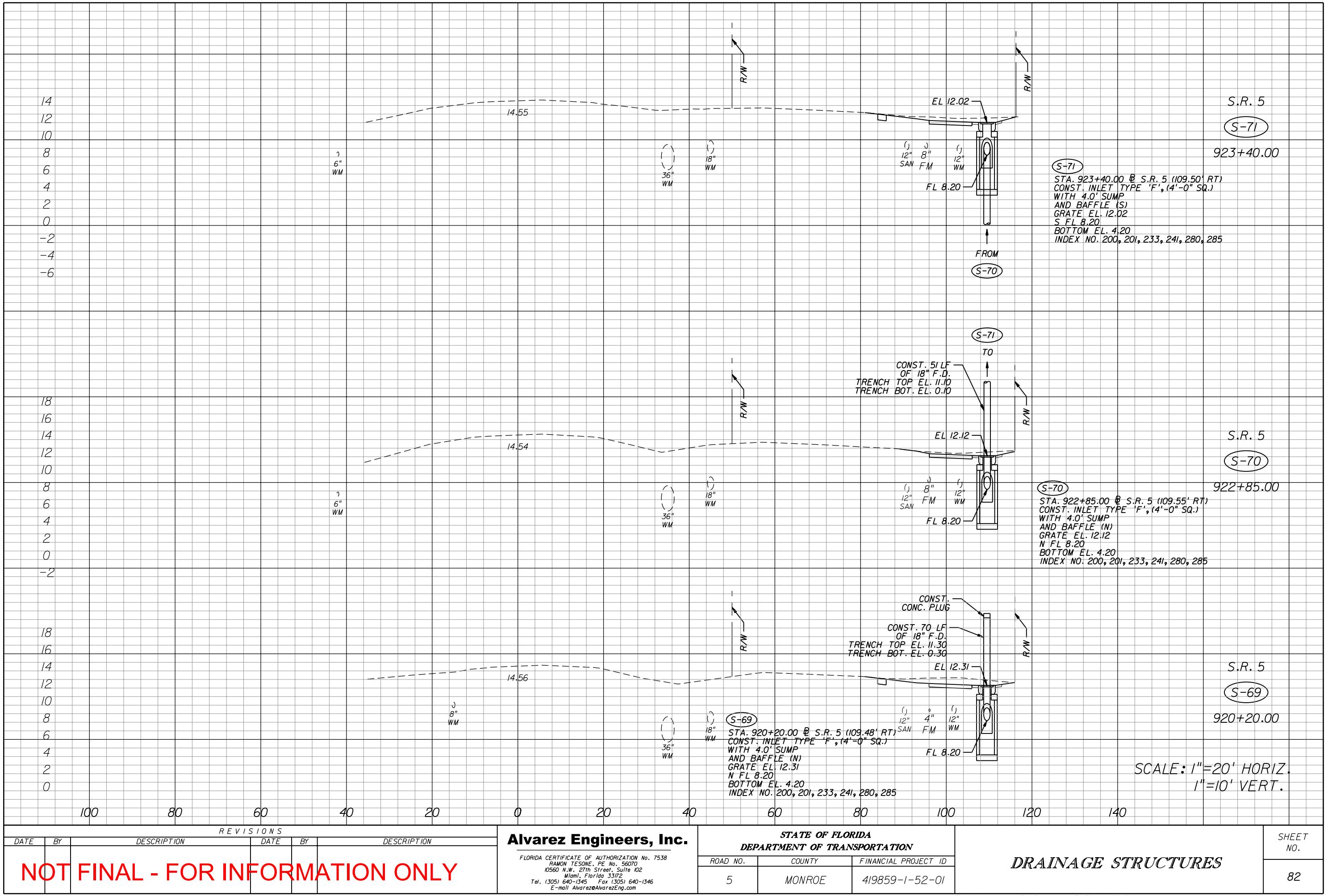
DRAINAGE STRUCTURES

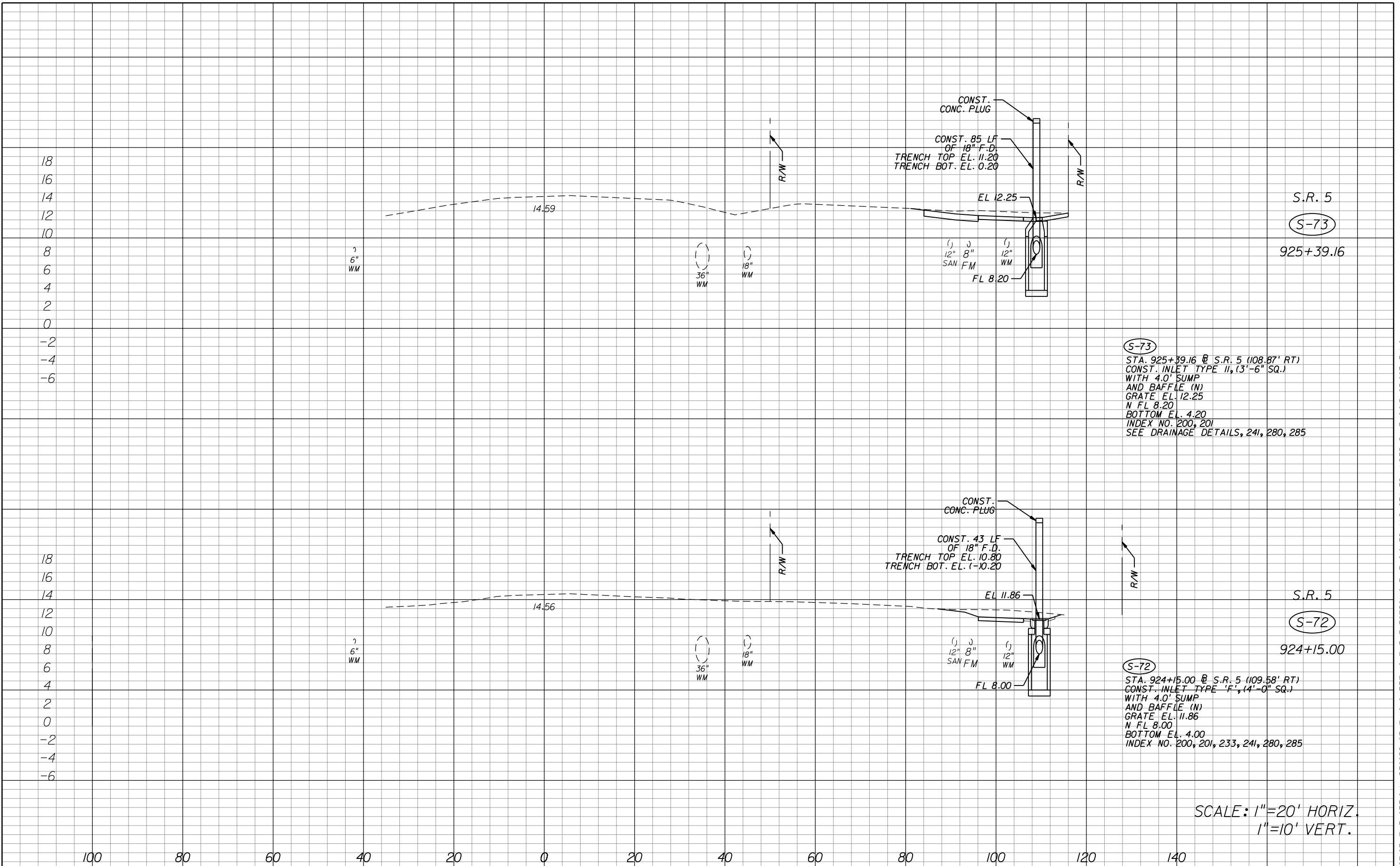


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				80
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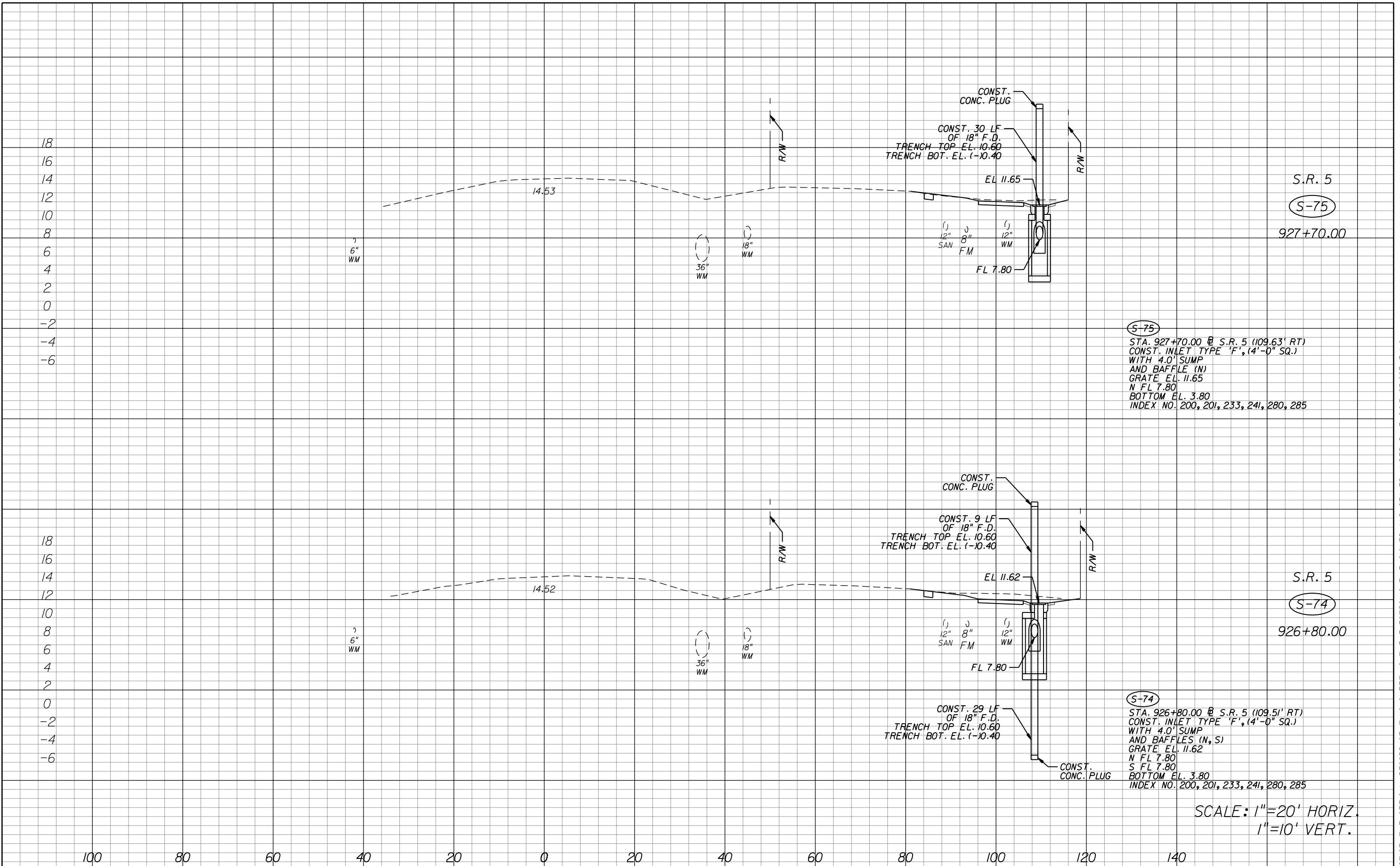


REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION		DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
		NOT FINAL - FOR INFORMATION ONLY				Alvarez Engineers, Inc.		5	MONROE	419859-1-52-01	81	
FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538 RAMON TESONE, PE No. 56070 10560 N.W. 27th Street, Suite 102 Miami, Florida 33172 Tel. (305) 640-1345 Fax (305) 640-1346 E-mail Alvarez@AlvarezEng.com						minastrilla 6/8/2012 11:28:57 AM Z:\FDOT\419859\5201\drainage\drxsrd04.dgn						





REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				83
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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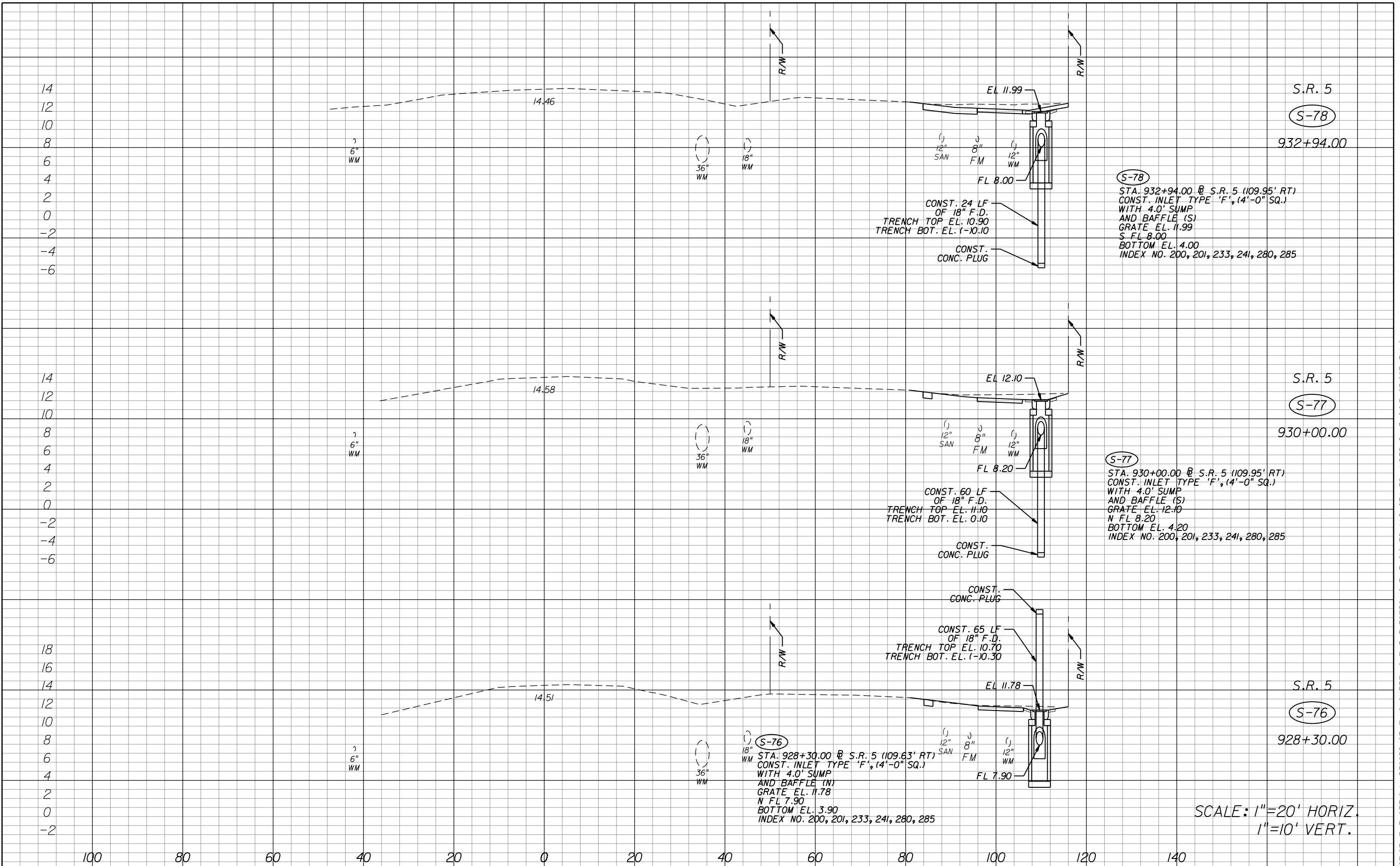
Alvarez Engineers, Inc.

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			

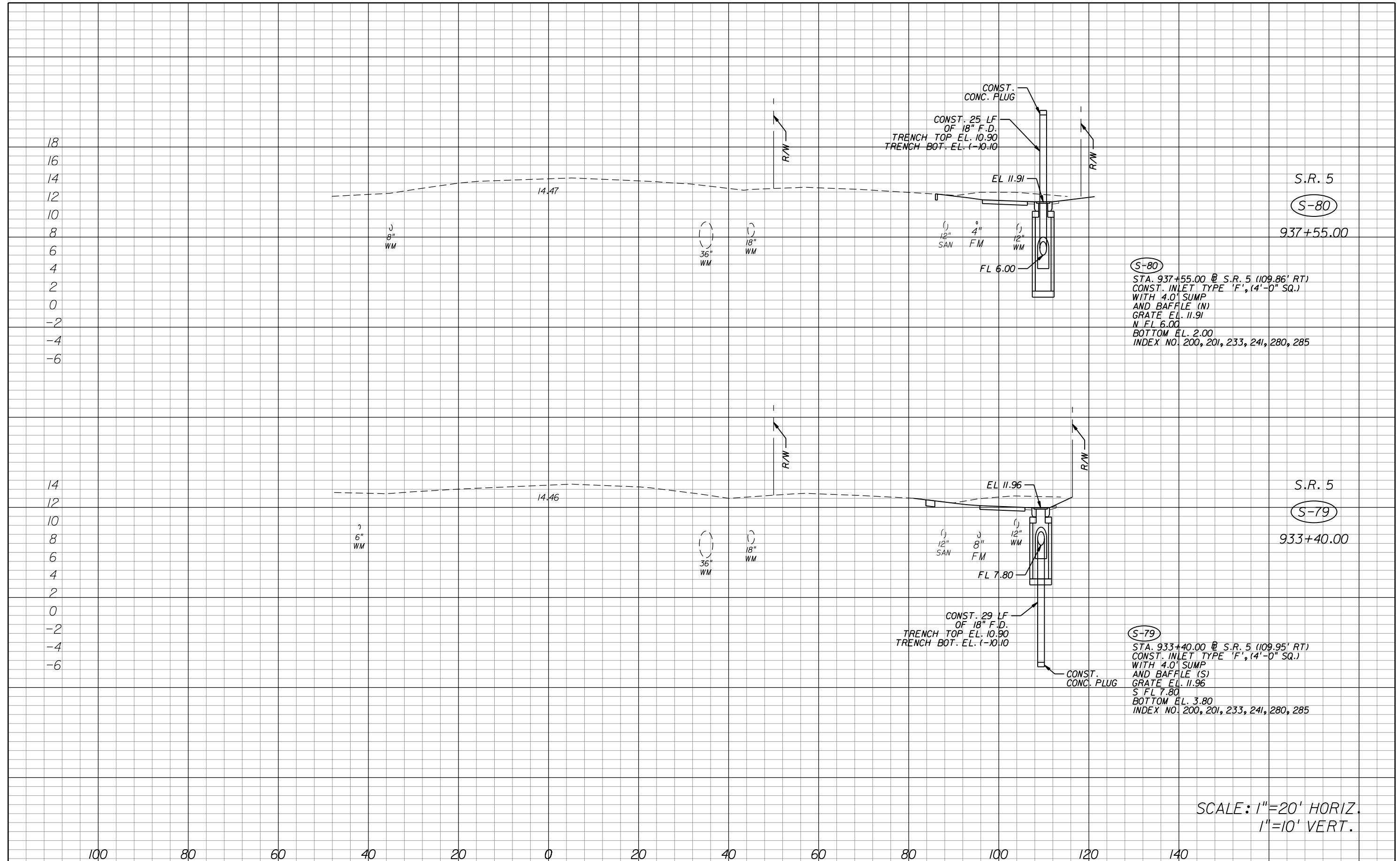
Alvarez Engineers, Inc.

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

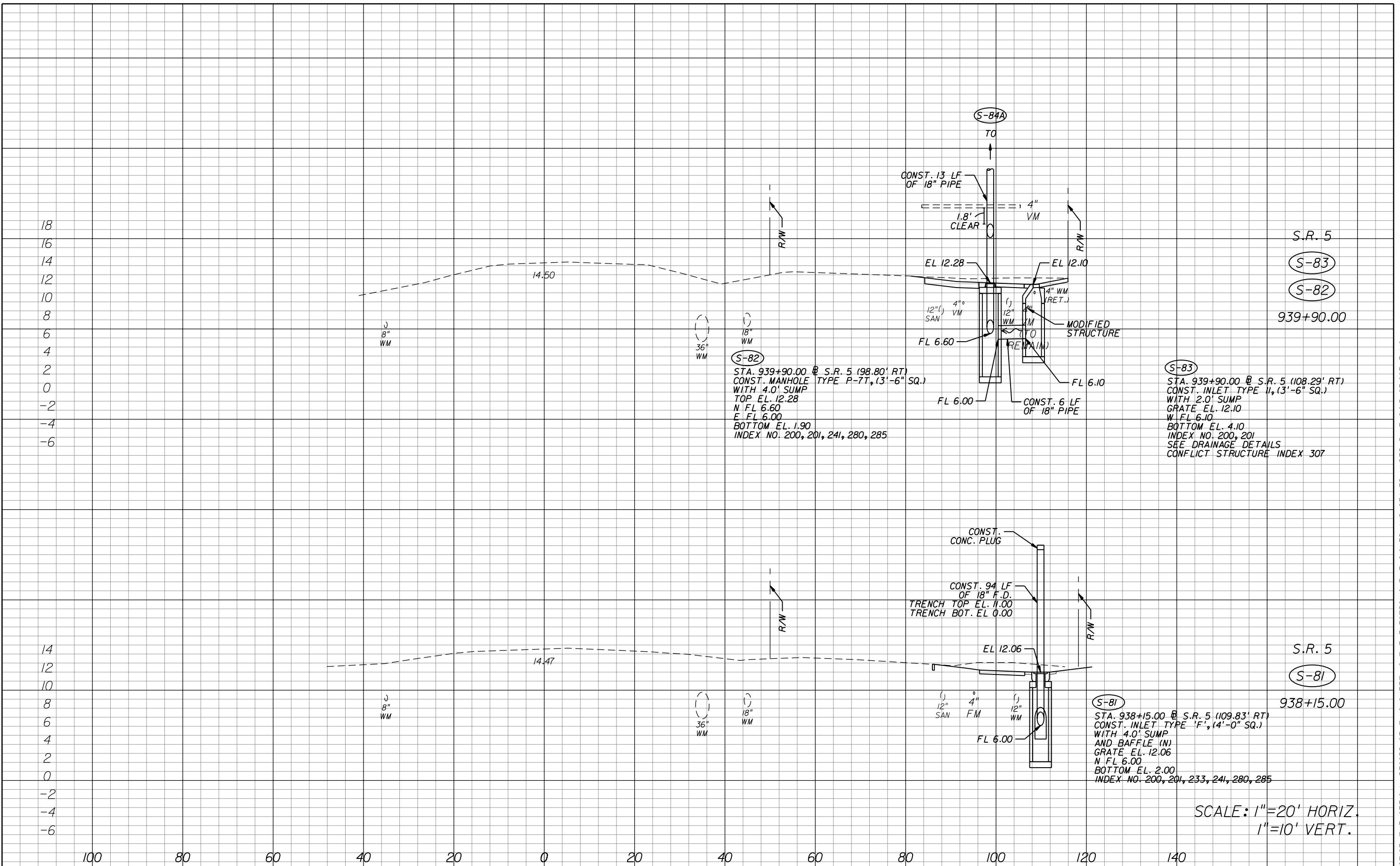
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



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REVISIONS					Alvarez Engineers, Inc.	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	<i>DRAINAGE STRUCTURES</i>	SHEET NO.	
DATE	BY	DESCRIPTION	DATE	BY				86	
		NOT FINAL - FOR INFORMATION ONLY			FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538 RAMON TESONE, PE No. 56070 10560 N.W. 27th Street, Suite 102 Miami, Florida 33172 Tel. (305) 640-1345 Fax (305) 640-1346 E-mail Alvarez@AlvarezEng.com	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					5	MONROE	419859-1-52-01		



REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION

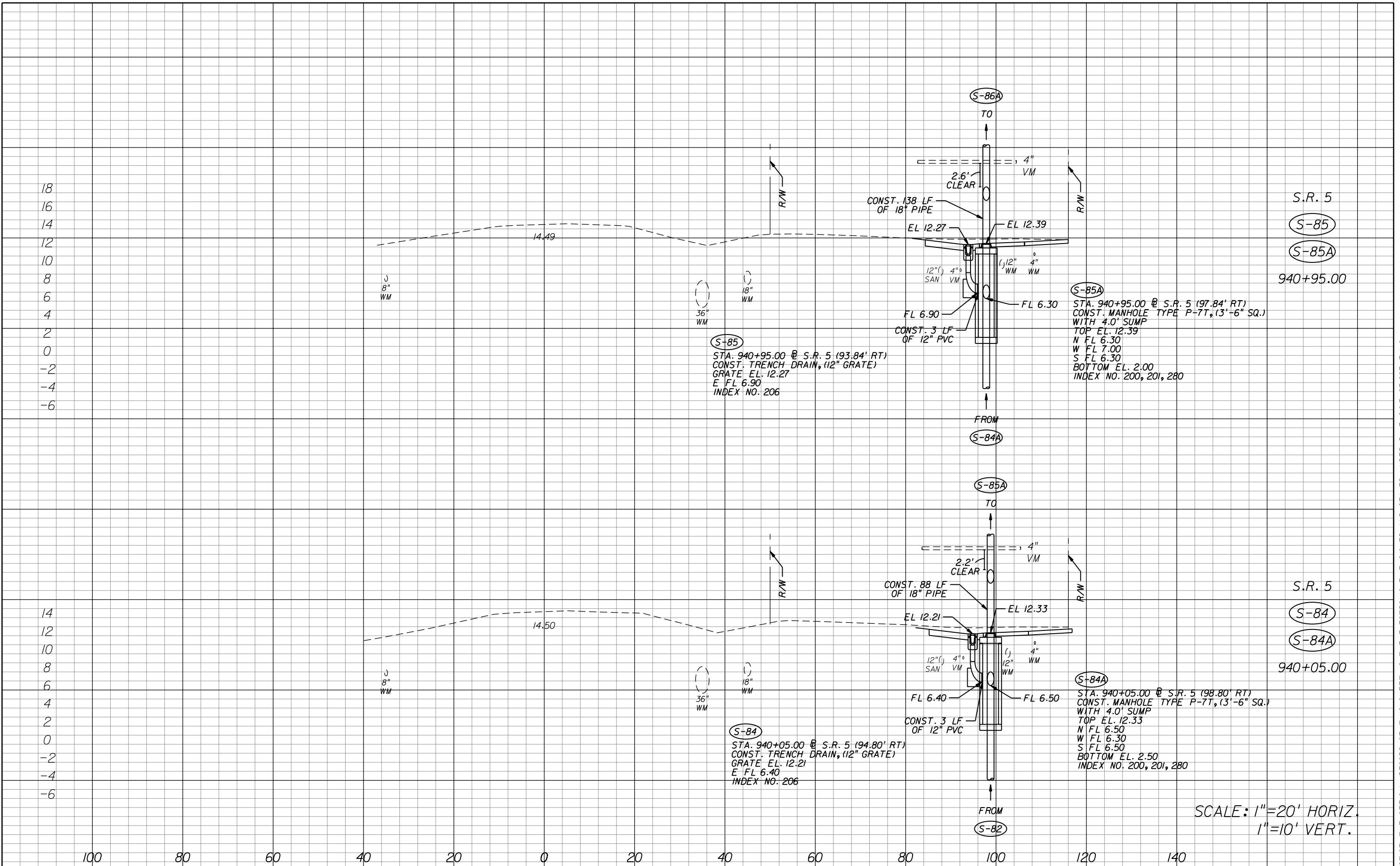
Alvarez Engineers, Inc.

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RAMON TESONE, PE No. 56070
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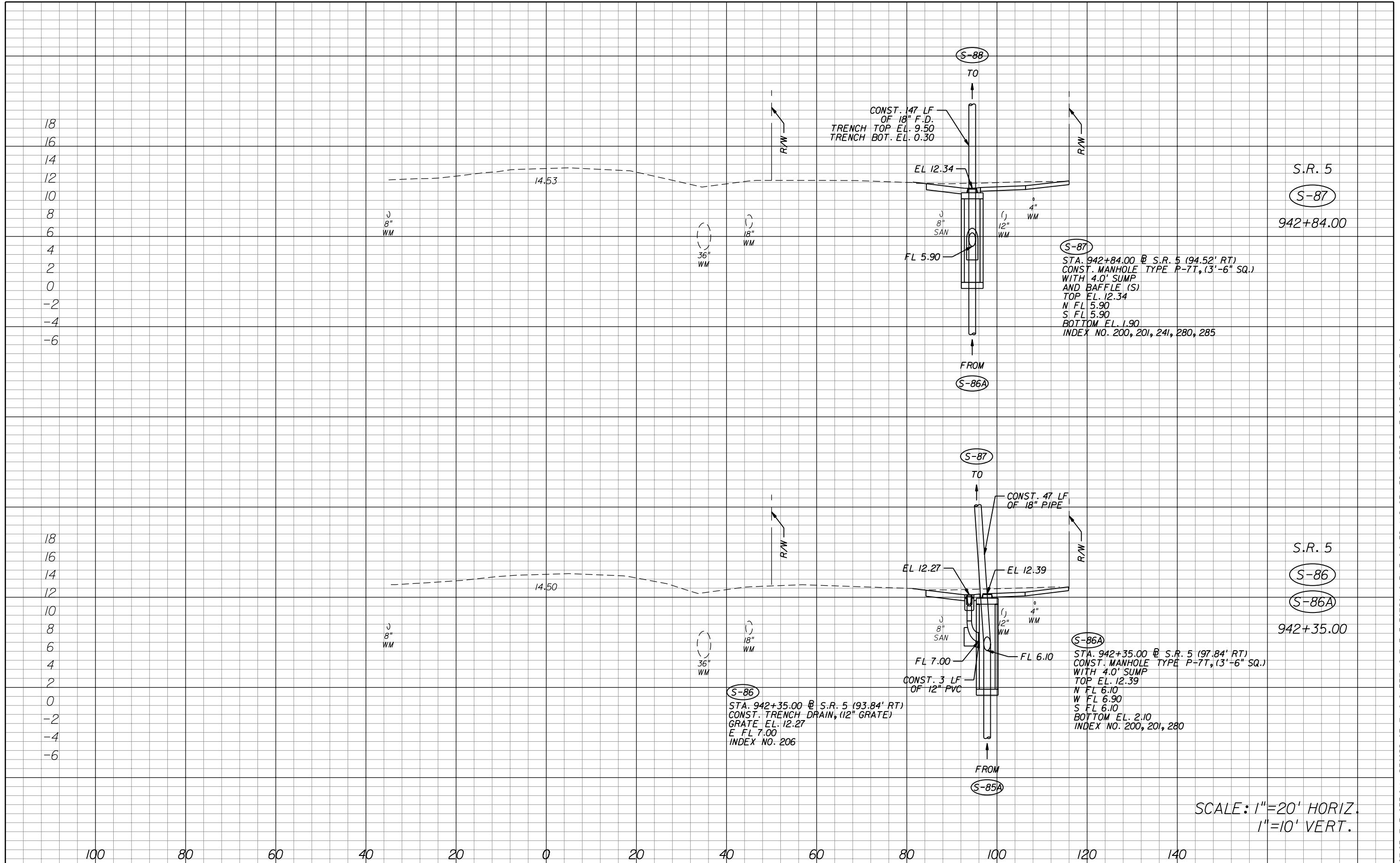
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

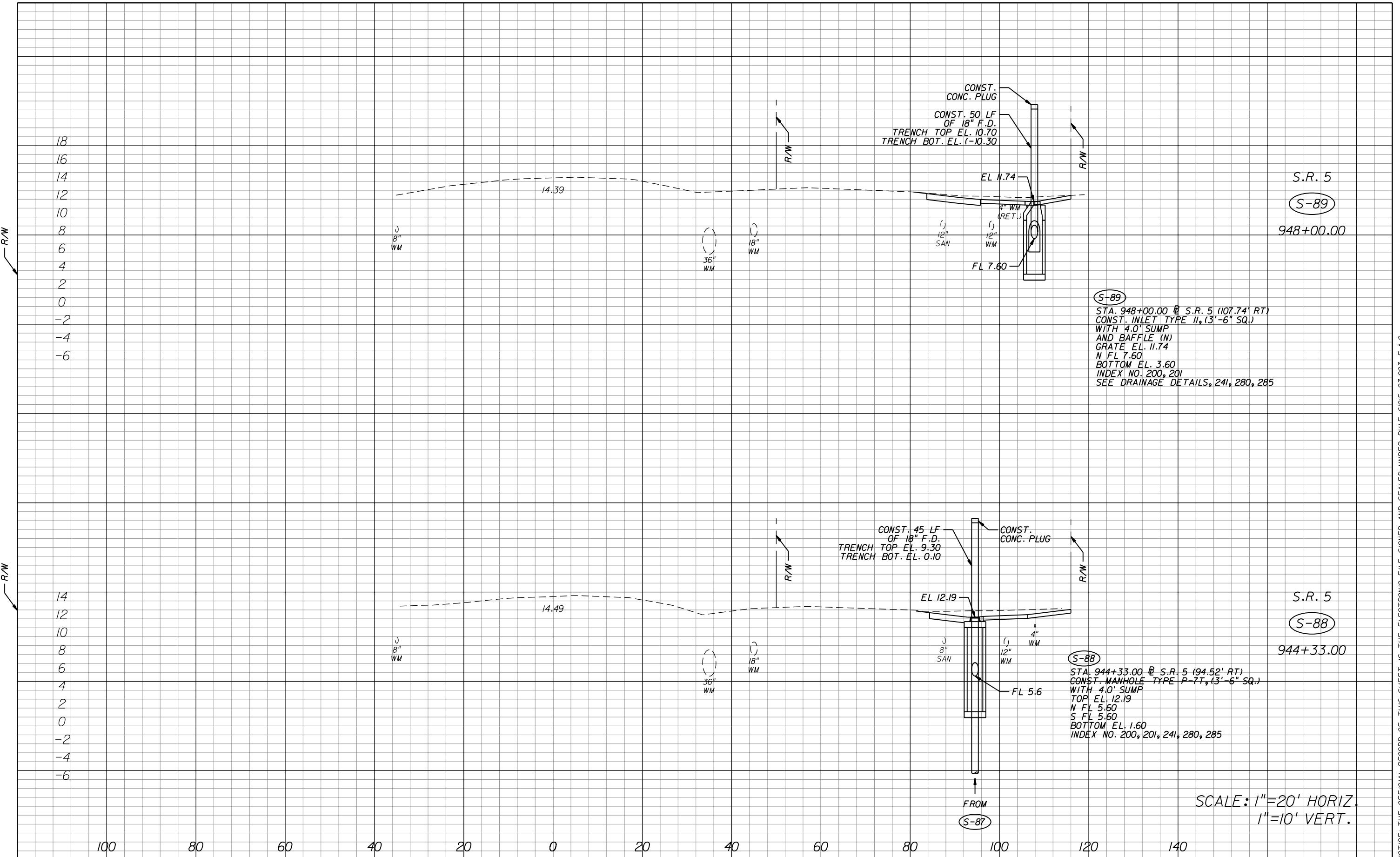
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES		SHEET NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
						5	MONROE	419859-1-52-01	minastrilla	6/8/2012	II:32:38 AM	Z:\FDOT\419859\5201\drainage\drxsrd04.dgn	88





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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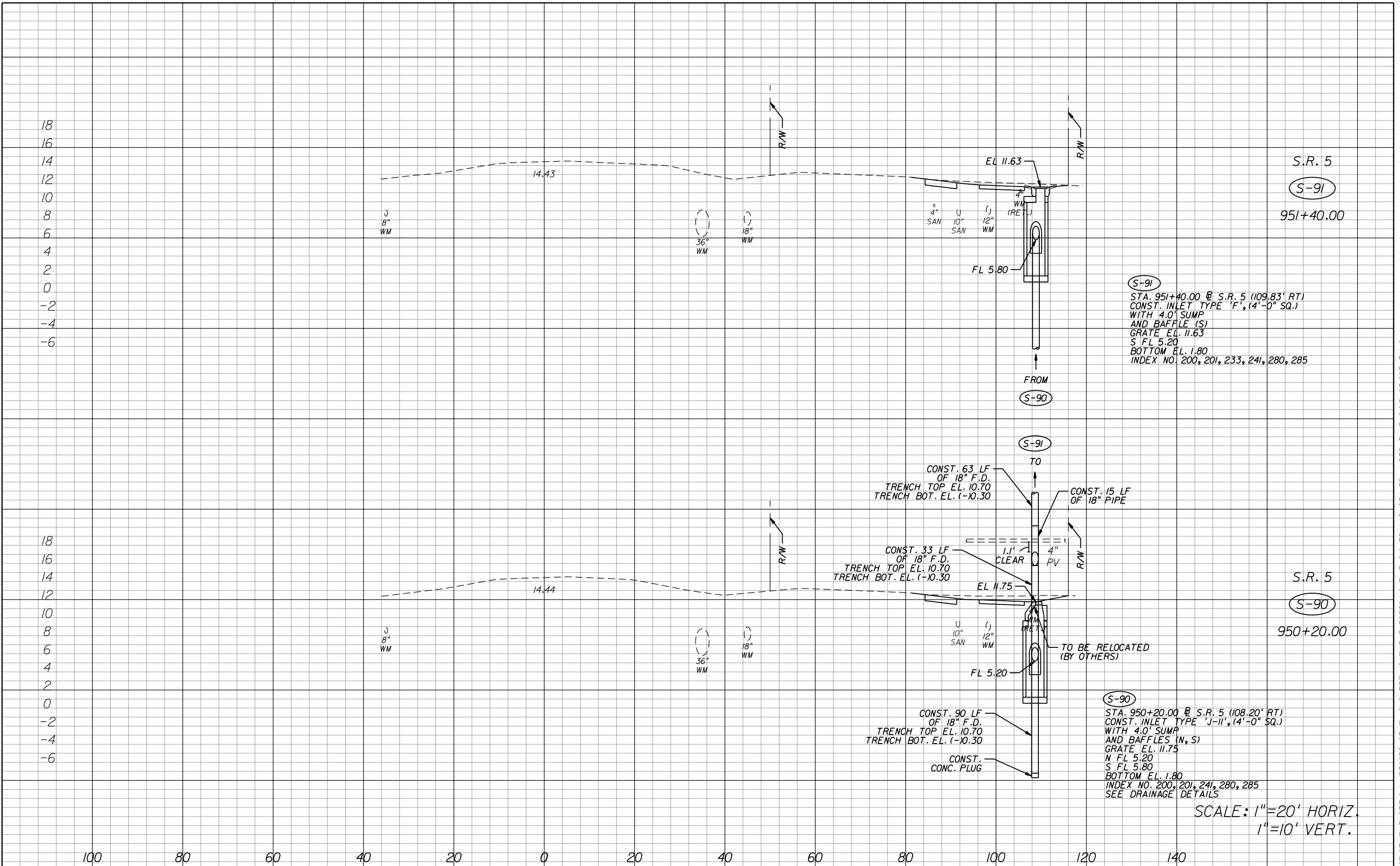
Alvarez Engineers, Inc.

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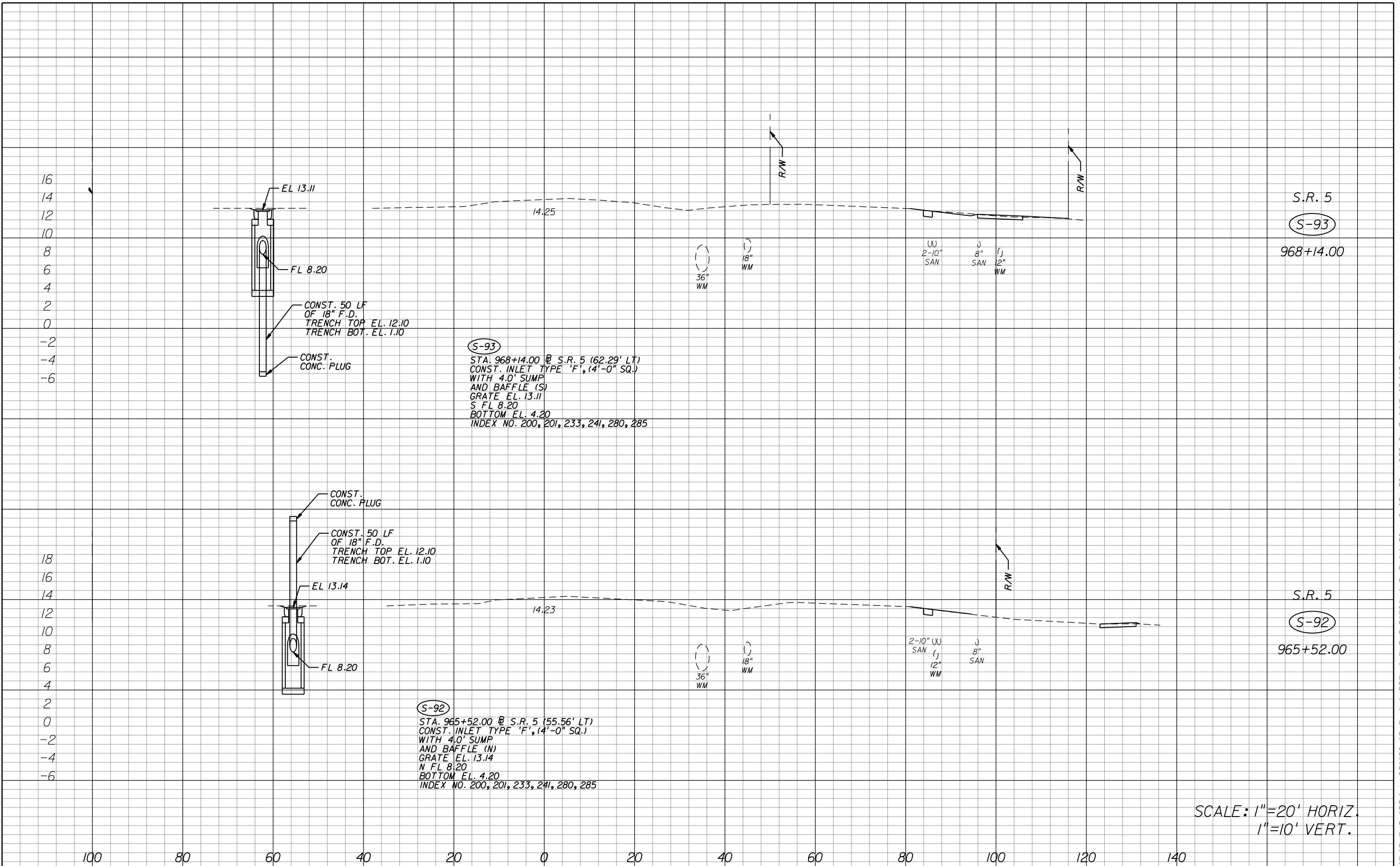
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



REVISIONS						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				91
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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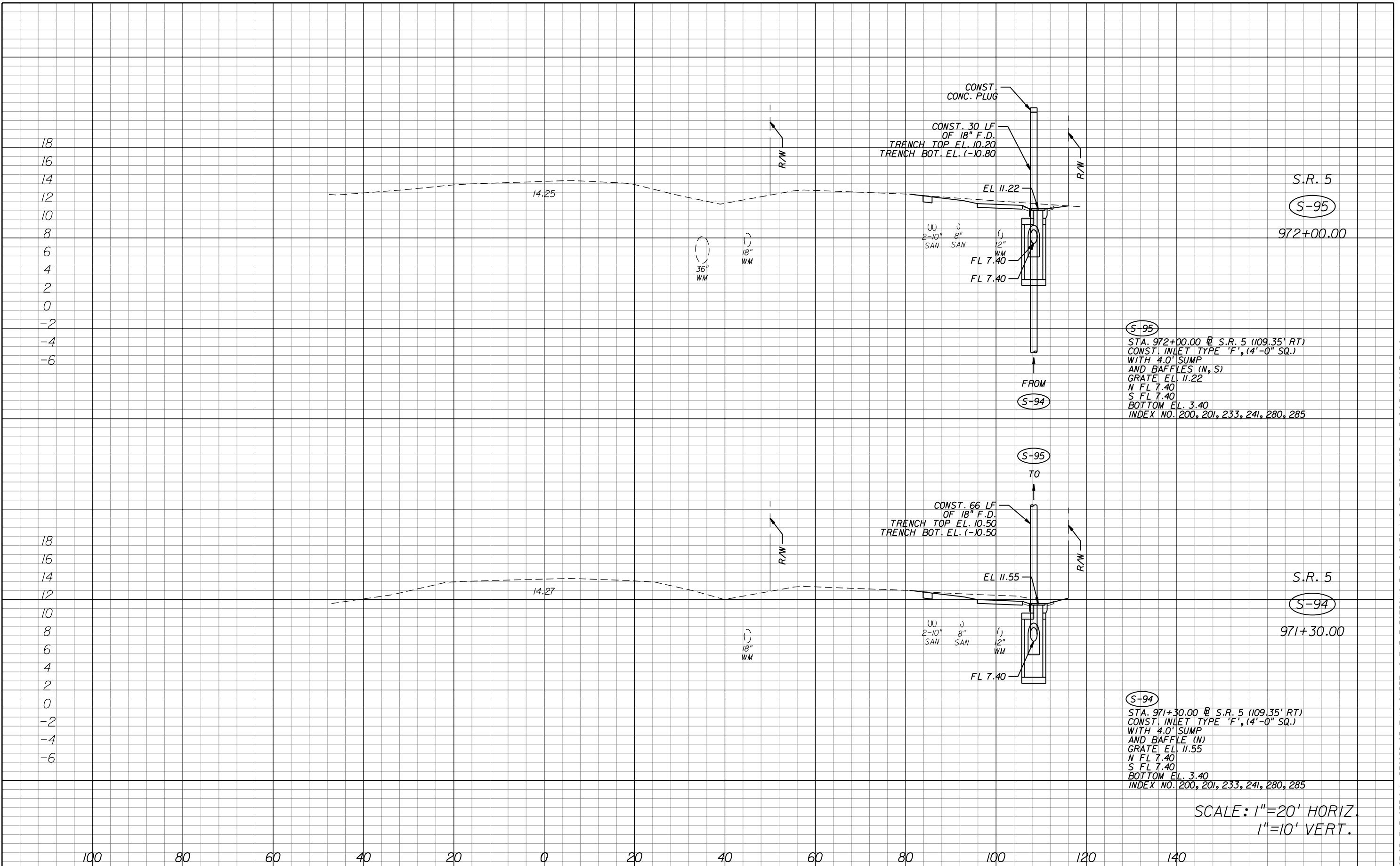
Alvarez Engineers, Inc.

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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			

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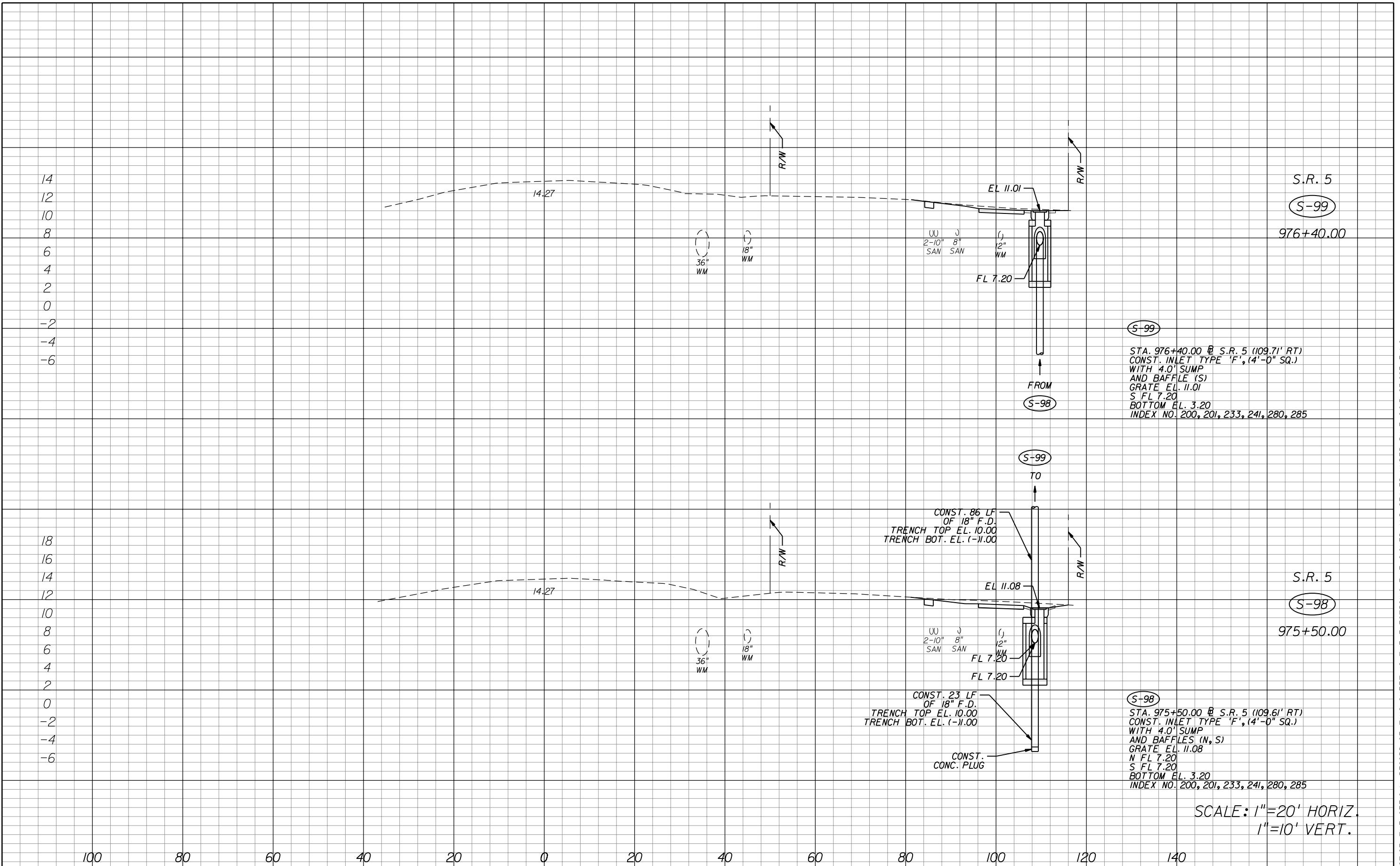
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

DRAINAGE STRUCTURES



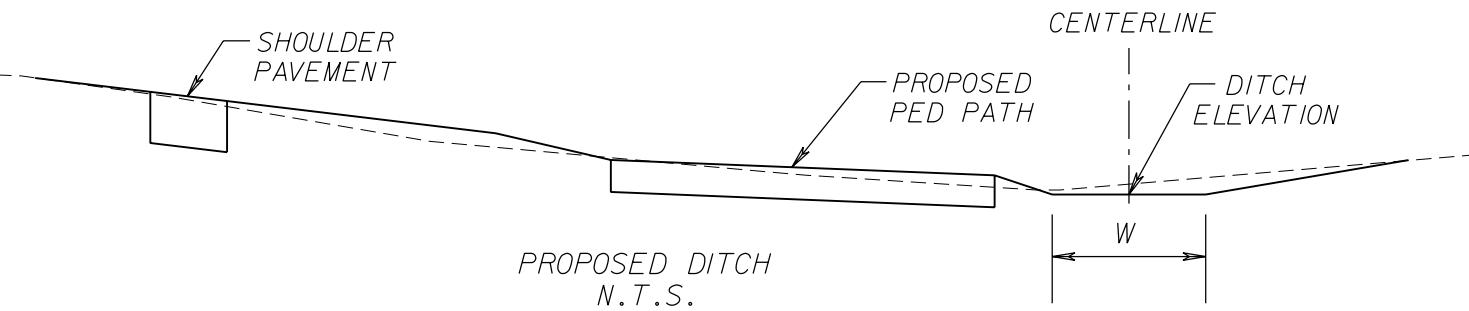
REVISIONS			Alvarez Engineers, Inc.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID				94
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REVISIONS		DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			DRAINAGE STRUCTURES			SHEET NO.	
														ROAD NO.	COUNTY	FINANCIAL PROJECT ID					
														5	MONROE	419859-1-52-01	L.Mujica	6/8/2012	11:48:49 AM	Z:\FDOT\419859\5201\drainage\drxsrd04.dgn	95

DITCH GEOMETRY

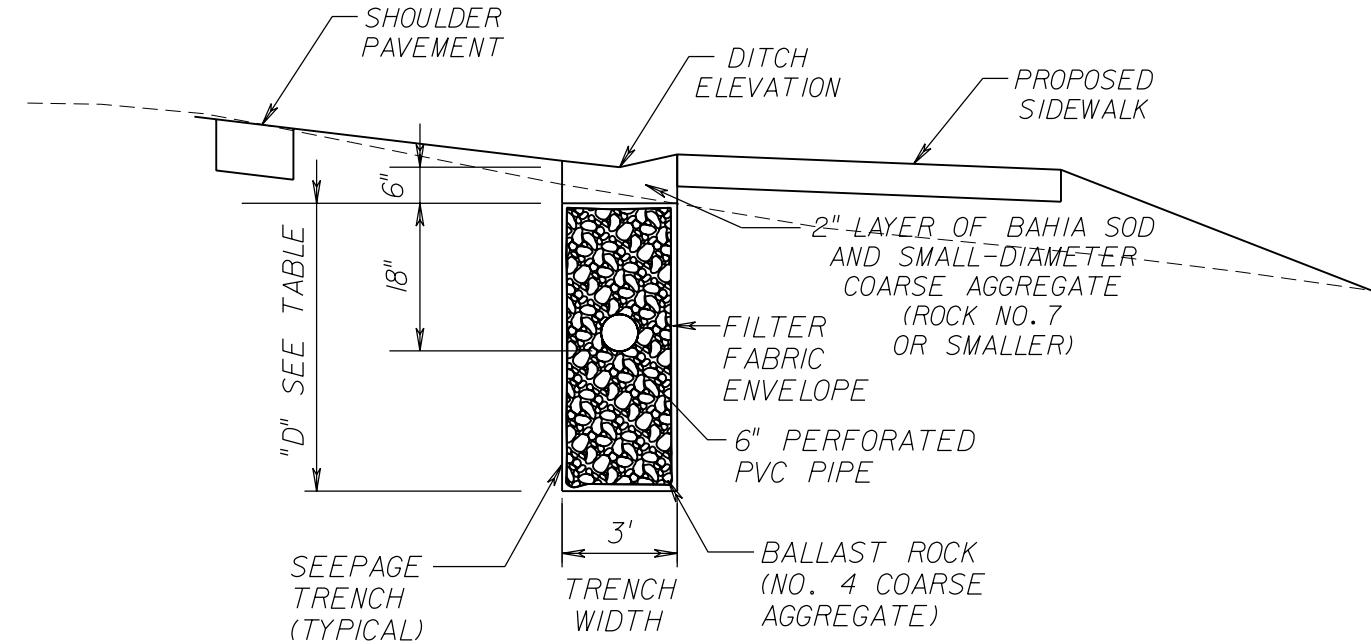
CENTERLINE STATION	ELEV.	W	CENTERLINE STATION	ELEV.	W
803+08.97 (100.77' RT)	9.63	4.0	829+80.00 (109.69' RT)	9.58	4.0
804+00.33 (108.50' RT)	9.27	4.0	857+70.00 (108.90' RT)	9.98	4.0
805+70.00 (108.07' RT)	9.51	3.0	857+92.66 (108.88' RT)	9.84	4.0
805+80.00 (108.57' RT)	9.50	4.0	858+02.66 (106.88' RT)	9.91	4.0
806+30.00 (108.59' RT)	9.67	4.0	858+05.66 (106.88' RT)	9.92	4.0
807+10.00 (108.62' RT)	9.38	4.0	858+15.66 (108.88' RT)	9.93	4.0
807+15.87 (108.63' RT)	9.38	4.0	859+60.00 (108.79' RT)	10.32	4.0
807+25.87 (106.63' RT)	9.32	4.0	904+80.00 (109.23' RT)	10.90	4.0
807+28.87 (106.63' RT)	9.29	4.0	908+14.12 (109.11' RT)	11.35	4.0
807+38.87 (108.63' RT)	9.24	4.0	908+24.12 (107.11' RT)	11.37	4.0
810+80.00 (108.77' RT)	9.94	4.0	908+27.12 (107.11' RT)	11.36	4.0
811+60.00 (107.27' RT)	10.17	1.0	908+37.12 (109.11' RT)	11.35	4.0
811+70.00 (106.77' RT)	10.19	0.0	910+85.72 (109.03' RT)	11.97	4.0
812+70.00 (106.77' RT)	10.17	0.0	910+95.72 (107.03' RT)	12.01	4.0
813+10.00 (108.77' RT)	10.04	4.0	910+98.72 (107.03' RT)	12.01	4.0
813+41.39 (108.77' RT)	10.01	4.0	911+08.86 (108.58' RT)	12.09	3.1
815+44.58 (108.77' RT)	10.02	4.0	911+30.00 (107.51' RT)	12.11	1.0
817+10.00 (108.77' RT)	9.80	4.0	911+70.00 (107.50' RT)	12.15	1.0
818+10.00 (108.77' RT)	9.65	4.0	912+00.00 (108.99' RT)	12.17	4.0
820+70.00 (108.77' RT)	10.84	4.0	912+70.00 (108.97' RT)	12.20	4.0
821+70.00 (108.78' RT)	10.35	4.0	912+90.00 (107.96' RT)	12.21	2.0
822+37.27 (108.91' RT)	10.09	4.0	913+70.00 (107.68' RT)	12.25	1.5
822+47.27 (106.93' RT)	10.05	4.0	914+50.00 (107.91' RT)	12.29	2.0
822+50.27 (106.93' RT)	10.03	4.0	914+60.00 (108.41' RT)	12.30	3.0
822+60.00 (108.97' RT)	9.94	4.0	914+70.00 (108.41' RT)	12.36	4.0
824+50.00 (109.38' RT)	9.65	4.0	915+30.00 (109.22' RT)	11.94	4.0
824+60.69 (108.90' RT)	9.82	2.9	916+20.00 (109.26' RT)	11.85	4.0
824+70.69 (106.42' RT)	9.94	1.9	917+10.00 (109.31' RT)	12.02	4.0
824+73.69 (106.42' RT)	9.96	1.6	918+75.57 (109.40' RT)	12.22	4.0
824+83.69 (107.94' RT)	10.01	0.6	918+85.57 (107.40' RT)	12.23	4.0
824+90.00 (107.46' RT)	10.07	0.0	918+88.57 (107.40' RT)	12.22	4.0
825+00.00 (107.48' RT)	10.15	0.0	918+98.57 (109.41' RT)	12.23	4.0
825+10.00 (107.88' RT)	10.14	0.0	919+10.00 (109.41' RT)	12.42	4.0
825+50.00 (107.88' RT)	10.07	0.0	920+20.00 (109.48' RT)	12.31	4.0
825+90.00 (109.88' RT)	10.01	4.0	920+50.00 (109.49' RT)	12.35	4.0
826+87.71 (109.88' RT)	9.84	4.0	920+70.00 (108.50' RT)	12.38	2.0
826+97.71 (107.88' RT)	9.80	4.0	920+90.00 (108.51' RT)	12.41	2.0
827+00.71 (107.88' RT)	9.78	4.0	921+20.00 (108.53' RT)	12.66	2.0
827+10.71 (109.88' RT)	9.76	4.0	922+81.50 (109.55' RT)	12.13	4.0
827+70.00 (109.89' RT)	9.87	4.0	923+45.92 (109.50' RT)	12.03	4.0
828+30.00 (109.89' RT)	9.29	4.0	923+55.92 (107.50' RT)	12.00	4.0
828+40.00 (109.89' RT)	9.19	4.0	923+58.92 (107.50' RT)	11.99	4.0
828+60.00 (108.89' RT)	9.30	2.0	924+11.50 (109.58' RT)	11.87	4.0
828+71.92 (106.39' RT)	9.40	0.8	925+13.66 (109.56' RT)	12.25	4.0
828+74.92 (106.39' RT)	9.42	0.5	925+23.66 (107.56' RT)	12.26	3.6
828+84.92 (107.89' RT)	9.44	0.0	925+26.66 (107.56' RT)	12.25	3.3
829+10.00 (107.76' RT)	9.49	0.0	925+36.66 (108.80' RT)	12.24	2.7
829+50.00 (109.72' RT)	9.51	3.0	925+70.00 (108.79' RT)	12.26	2.5
			925+90.00 (109.54' RT)	12.27	4.0



DITCH GEOMETRY (CON'T)

CENTERLINE STATION	ELEV.	W	CENTERLINE STATION	ELEV.	W	CENTERLINE STATION	ELEV.	W
926+26.30 (109.53' RT)	11.96	4.0	939+25.74 (106.78' RT)	12.17	2.0	953+60.00 (109.88' RT)	11.70	4.0
926+36.30 (107.53' RT)	11.87	4.0	939+28.74 (106.78' RT)	12.16	2.0	954+00.00 (109.89' RT)	11.65	4.0
926+39.30 (107.53' RT)	11.84	4.0	939+38.85 (108.34' RT)	12.13	1.1	971+28.00 (109.37' RT)	11.72	4.0
926+49.30 (109.52' RT)	11.78	4.0	939+50.00 (107.79' RT)	12.13	0.0	972+45.53 (109.34' RT)	11.32	4.0
926+90.00 (109.51' RT)	11.90	4.0	939+70.00 (107.79' RT)	12.12	0.0	972+55.53 (107.34' RT)	11.34	4.0
927+56.08 (107.63' RT)	11.64	4.0	939+80.00 (108.29' RT)	12.11	1.0	972+58.53 (107.34' RT)	11.33	4.0
927+59.08 (107.63' RT)	11.63	4.0	939+98.04 (108.29' RT)	12.16	1.8	972+68.53 (109.34' RT)	11.34	4.0
927+69.08 (109.63' RT)	11.65	4.0	940+08.04 (106.80' RT)	12.42	3.6	973+00.00 (109.33' RT)	11.57	4.0
928+01.29 (109.58' RT)	11.72	4.0	940+11.04 (106.80' RT)	12.51	4.0	973+10.00 (108.83' RT)	11.64	3.0
928+11.29 (107.57' RT)	11.77	4.0	947+72.29 (107.23' RT)	11.80	3.8	973+30.00 (108.82' RT)	11.63	3.0
928+14.29 (107.57' RT)	11.76	4.0	947+83.23 (106.81' RT)	11.78	2.7	973+40.00 (109.32' RT)	11.63	4.0
928+24.29 (109.56' RT)	11.76	4.0	947+93.23 (108.27' RT)	11.75	1.7	973+50.00 (109.32' RT)	11.62	4.0
929+00.00 (109.46' RT)	12.10	4.0	948+00.00 (107.74' RT)	11.74	1.0	974+00.00 (109.46' RT)	11.59	4.0
929+02.20 (109.46' RT)	12.12	3.8	948+30.00 (107.63' RT)	11.79	1.0	974+30.00 (109.47' RT)	11.54	4.0
929+12.20 (106.95' RT)	12.16	2.8	948+60.00 (109.06' RT)	11.85	4.0	974+40.00 (108.99' RT)	11.52	3.0
929+15.20 (106.95' RT)	12.15	2.5	948+70.00 (109.06' RT)	11.89	4.0	974+50.00 (109.00' RT)	11.50	3.0
929+26.28 (107.93' RT)	12.14	1.4	949+20.00 (109.77' RT)	11.89	4.0	974+60.00 (109.51' RT)	11.49	4.0
929+50.00 (107.40' RT)	12.13	0.0	949+30.00 (109.77' RT)	11.87	4.0	976+45.17 (109.73' RT)	11.02	4.0
929+90.00 (109.35' RT)	12.11	4.0	949+40.00 (109.27' RT)	11.86	3.0	976+55.17 (107.73' RT)	11.00	4.0
930+20.00 (109.34' RT)	12.29	4.0	949+90.00 (109.28' RT)	11.79	3.0	976+58.17 (107.73' RT)	10.98	4.0
931+40.00 (108.88' RT)	12.24	3.0	950+10.00 (108.28' RT)	11.76	1.0	976+68.		

TRENCH STATIONS				DEPTH "D" IN.	LENGTH FT.
FROM	ELEVATION	TO	ELEVATION		
803+17.00 (29.6' LT)	12.44	803+17.00 (29.6' LT)	12.33	60	40
804+00.00 (29.6' LT)	11.89	804+00.00 (29.6' LT)	12.02	60	7
818+12.50 (108.8' RT)	9.66	818+12.50 (108.8' RT)	9.71	60	16
833+15.00 (94.2' RT)	9.17	833+15.00 (94.2' RT)	9.01	21	120
838+49.00 (94.5' RT)	8.91	838+49.00 (94.5' RT)	9.16	60	75
849+85.00 (94.1' RT)	9.81	849+85.00 (94.1' RT)	9.80	60	10
852+05.00 (94.1' RT)	9.86	852+05.00 (94.1' RT)	9.86	60	10
860+65.00 (93.8' RT)	10.76	860+65.00 (93.8' RT)	10.76	60	10
868+65.00 (99.0' RT)	10.75	868+65.00 (99.0' RT)	10.75	21	10
870+05.00 (94.1' RT)	10.72	870+05.00 (94.1' RT)	10.71	60	10
878+95.00 (94.4' RT)	10.64	878+95.00 (94.4' RT)	10.64	21	10
880+95.00 (94.4' RT)	10.63	880+95.00 (94.4' RT)	10.59	21	50
882+65.00 (94.5' RT)	10.55	882+65.00 (94.5' RT)	10.60	21	50
883+85.00 (94.5' RT)	10.64	883+85.00 (94.5' RT)	10.65	21	10
884+55.00 (94.5' RT)	10.78	884+55.00 (94.5' RT)	10.74	21	10
886+05.00 (94.6' RT)	10.81	886+05.00 (94.6' RT)	10.82	21	10
887+15.00 (94.6' RT)	10.90	887+15.00 (94.6' RT)	10.92	21	30
888+05.01 (94.9' RT)	11.00	888+05.01 (94.9' RT)	11.17	21	162
889+66.98 (94.7' RT)	11.17	889+66.98 (94.7' RT)	11.22	21	98
890+64.29 (100.2' RT)	11.22	890+64.29 (100.2' RT)	11.42	21	206
893+65.00 (100.1' RT)	11.59	893+65.00 (100.1' RT)	11.62	21	70
897+50.00 (94.2' RT)	11.54	897+50.00 (94.2' RT)	11.57	21	250
902+45.00 (94.3' RT)	11.56	902+45.00 (94.3' RT)	11.64	21	50
903+65.00 (94.3' RT)	11.67	903+65.00 (94.3' RT)	11.67	60	10
921+50.00 (94.5' RT)	12.60	921+50.00 (94.5' RT)	12.56	21	50
934+15.00 (94.3' RT)	12.37	934+15.00 (94.3' RT)	12.42	21	160
936+40.00 (94.2' RT)	12.33	936+40.00 (94.2' RT)	12.31	21	40
943+30.00 (94.8' RT)	12.20	943+28.00 (94.8' RT)	12.15	21	100
944+75.00 (94.8' RT)	12.21	944+75.00 (94.8' RT)	12.16	21	45
945+90.00 (94.8' RT)	12.17	945+90.00 (94.8' RT)	12.16	60	30
946+75.00 (94.6' RT)	12.19	946+75.00 (94.6' RT)	12.17	60	40
951+72.50 (109.8' RT)	11.66	951+72.50 (109.8' RT)	11.69	60	23
953+47.49 (109.3' RT)	11.72	953+47.49 (109.3' RT)	11.70	60	13
953+60.00 (109.9' RT)	11.70	953+60.00 (109.9' RT)	11.65	60	38
968+45.00 (94.4' RT)	12.46	968+45.00 (94.4' RT)	12.40	21	30
970+05.00 (94.4' RT)	12.39	970+05.00 (94.4' RT)	12.36	21	10
977+35.00 (95.6' RT)	11.35	977+35.00 (95.6' RT)	11.29	60	100
979+55.00 (95.9' RT)	11.10	979+55.00 (95.9' RT)	11.05	21	30
980+75.00 (95.7' RT)	11.12	980+75.00 (95.7' RT)	11.15	21	10
981+45.00 (95.6' RT)	11.19	981+45.00 (95.6' RT)	11.24	21	10
982+20.00 (95.5' RT)	11.48	982+20.00 (95.5' RT)	11.50	21	10
983+95.00 (96.0' RT)	11.79	983+95.00 (96.0' RT)	11.80	21	50
985+25.00 (96.1' RT)	12.04	985+25.00 (96.1' RT)	12.01	21	30
986+25.00 (96.2' RT)	12.21	986+25.00 (96.2' RT)	12.23	21	31
TOTAL				2,174	



SEE PAGE TRENCH DETAIL

N.T.S.

NOTES:

1. CAP EACH END OF PVC PIPE
2. BALLAST ROCK AND FILTER FABRIC SHALL ONLY BE USED FOR THE SEE PAGE TRENCH.
3. 21" TRENCHES ARE PROPOSED WHEN A UTILITY IS UNDERNEATH. MAINTAIN 12" MIN. FROM THE UTILITY.
4. PAY ITEM 440-1-60, UNDERDRAINS, SPECIAL, LF.

CONSTRUCTION NOTE:

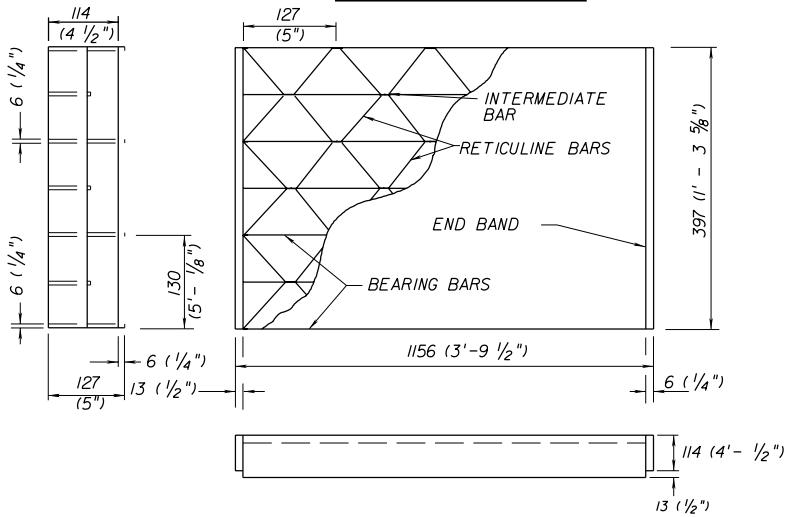
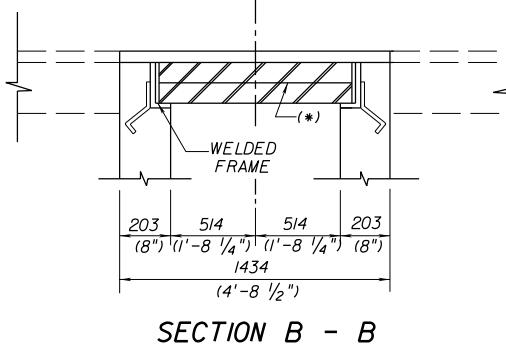
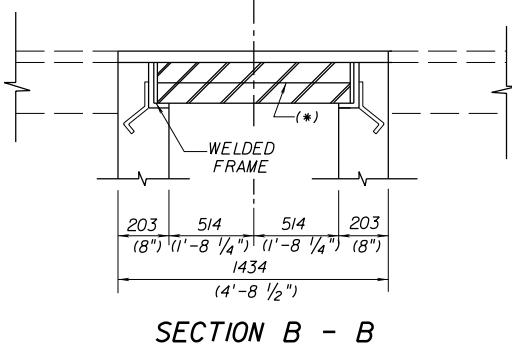
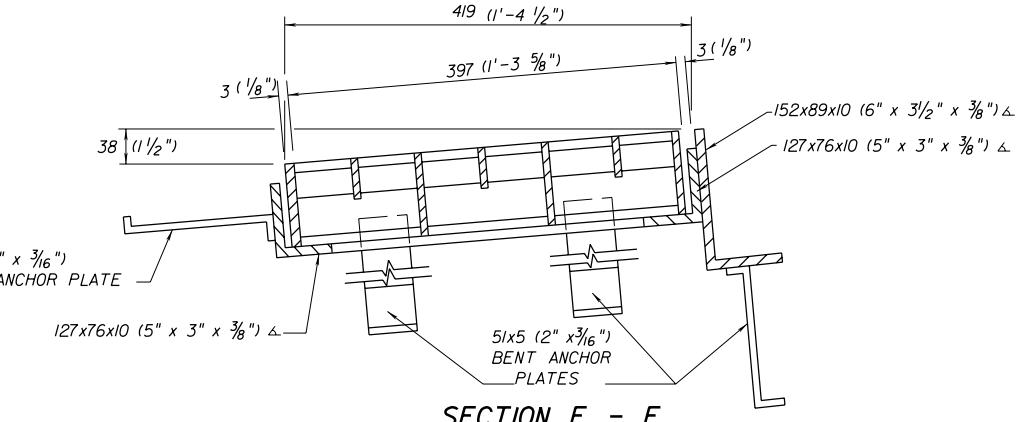
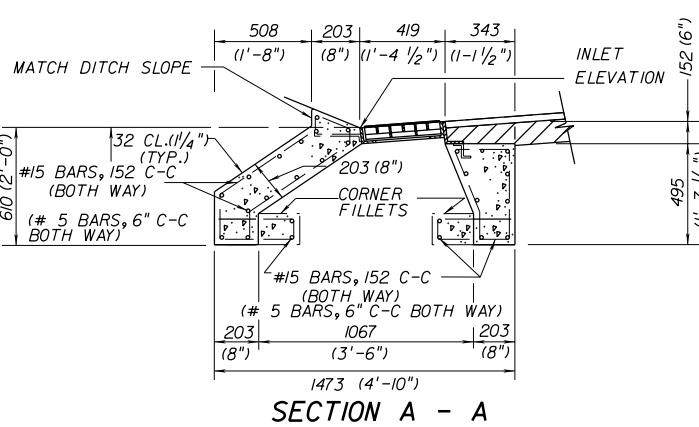
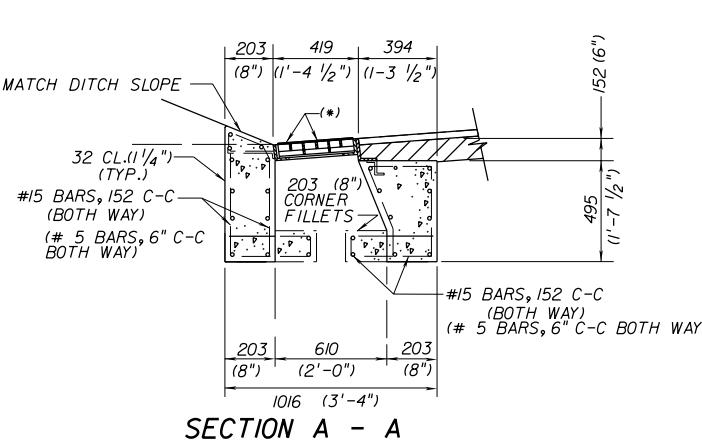
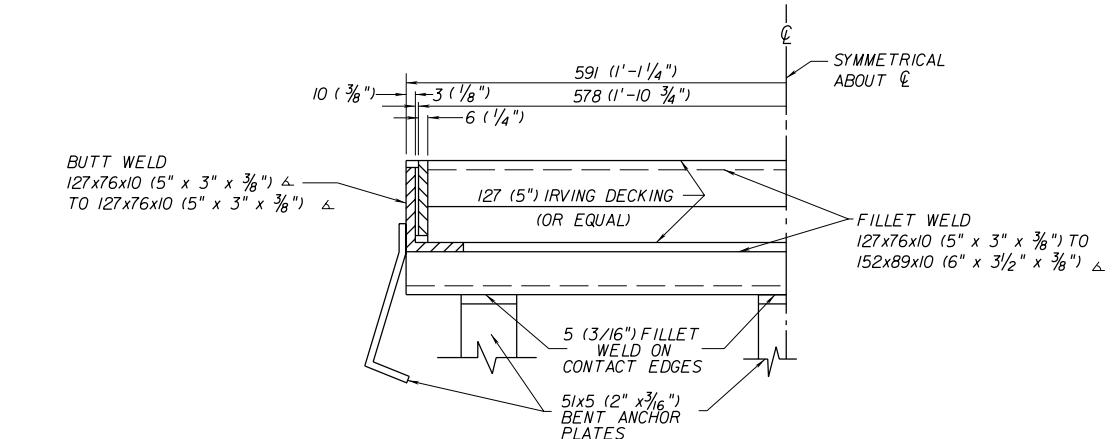
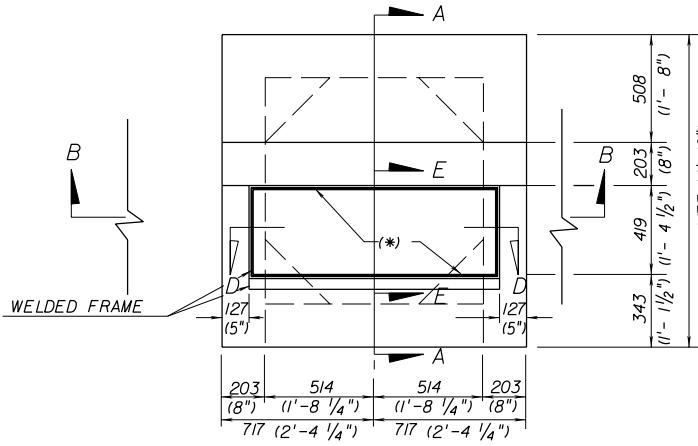
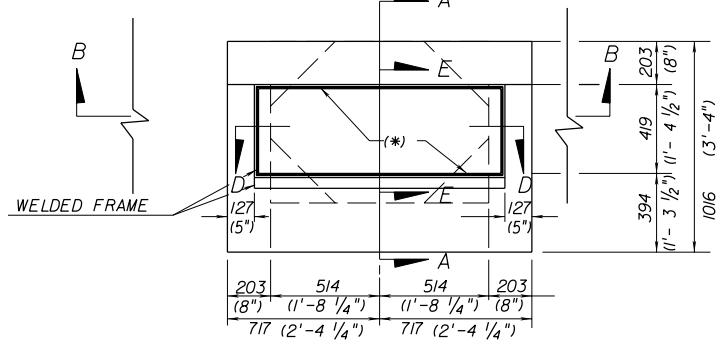
THE PROPOSED SEE PAGE TRENCHES AS SHOWN IN THE PLANS AND DRAINAGE DETAILS ARE DESIGNED TO INFILTRATE STORMWATER. THE DITCH IS VERY SUSCEPTIBLE TO CLOGGING FROM CONSTRUCTION SEDIMENTS; THEREFORE, IT REQUIRES A SPECIAL SEQUENCE OF CONSTRUCTION. INITIALLY EXCAVATE THE DITCH TO ROUGH GRADE. AFTER THE DRAINAGE AREA IS STABILIZED, CONSTRUCT THE SEE PAGE TRANCHES AND EXCAVATE THE DITCH BOTTOM TO THE FINAL ELEVATION.

REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY

Alvarez Engineers, Inc.
 FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
 RAMON TESONE, PE No. 56070
 10305 N.W. 41st Street, Suite 103
 Miami, Florida 33178
 Tel. (305) 640-1345 Fax (305) 640-1346
 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 SR 5 MONROE 419859-1-52-01

DRAINAGE DETAILS



NOTES:

1. * = 127 (5") IRVING DECKING (OR EQUAL). ALT. 'G' GALVANIZED. COST TO BE INCLUDED IN COST OF DRAINAGE STRUCTURES.
2. THE CORNER FILLETS ARE NECESSARY ONLY WHEN TOPS ARE USED IN CONJUNCTION WITH CIRCULAR INLET BOXES OR WHEN USED ON A SKEW WITH RECTANGULAR BOXES.
3. ANY GRATING OR DECKING THAT IS CAPABLE OF SUPPORTING H-20 LOADS MAY BE SUBSTITUTED FOR 127 (5") IRVING DECKING. AS LONG AS THE NET AREA OPENING IS NOT REDUCED, AND THE MAXIMUM DISTANCE (MEASURED PERPENDICULAR) BETWEEN BARS DOES NOT EXCEED 76 (3').
4. USE BOTTOM TYPE 'P' OR TYPE 'J' (ALT. B) WHEN BAFFLE IS REQUIRED AS PER STANDARD INDEX 200 & 201.

BEARING BARS -----127x6, 130 (5" x 1/4", 5/8") C-C
 RETICULINE BARS-----32x5, 127 (1/4" x 3/16", 5) RIVET CENTERS (FLUSH TOPS)
 END BANDS-----114x6 (4 1/2" x 1/4")
 INTERMEDIATE BARS---38x6, 130 (1/2" x 1/4", 5/8") C-C

SPECIAL DITCH INLET TYPE II DETAIL

(N.T.S.)

THIS DETAIL APPLIES TO STRUCTURES
 S-24, S-72, S-77, S-80, S-86 & S-87

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

NOT FINAL - FOR INFORMATION ONLY

Alvarez Engineers, Inc.

FLORIDA CERTIFICATE OF AUTHORIZATION No. 7538
 RAMON, TESONE, PE 56070
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 E-mail Alvarez@AlvarezEng.com

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

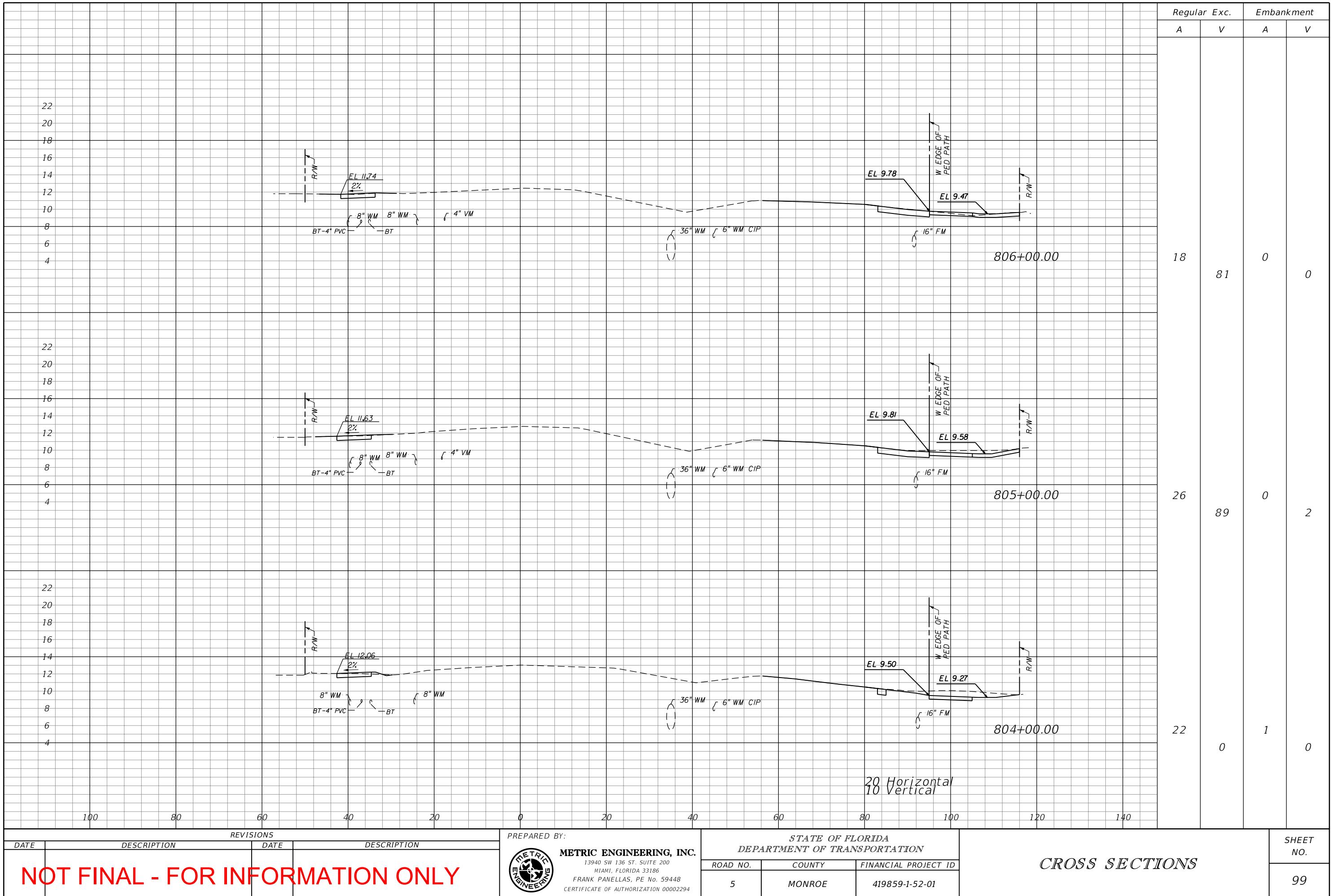
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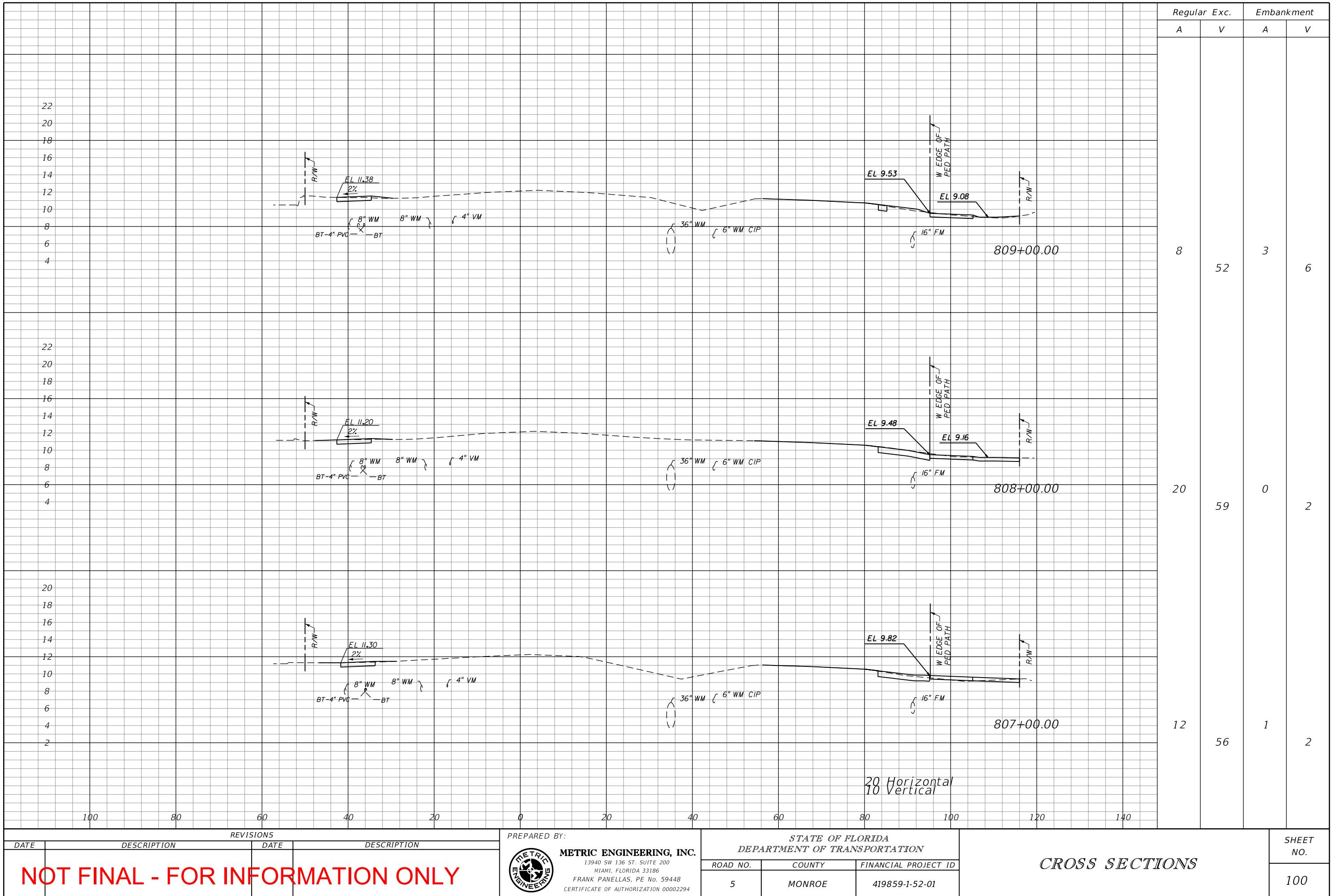
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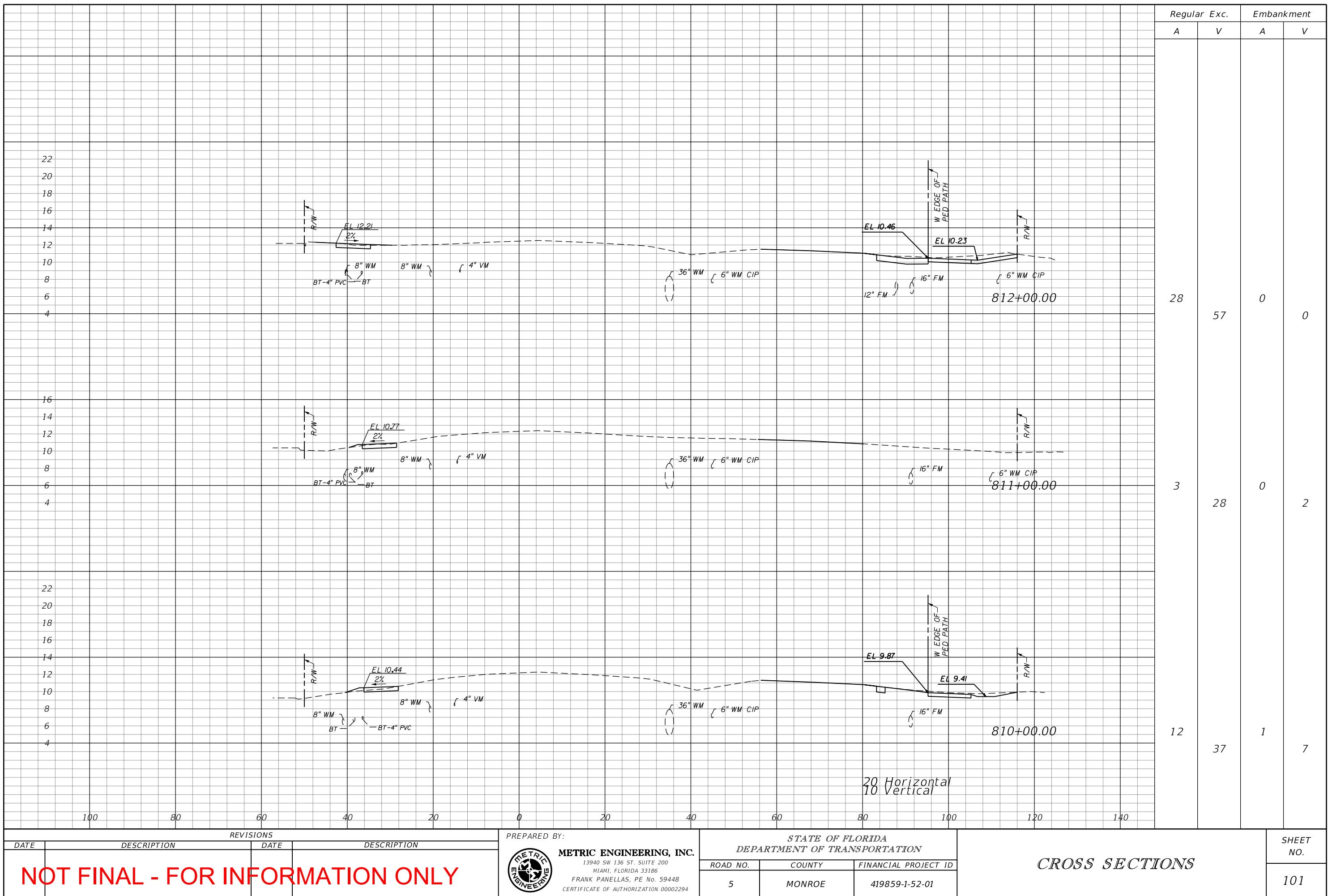
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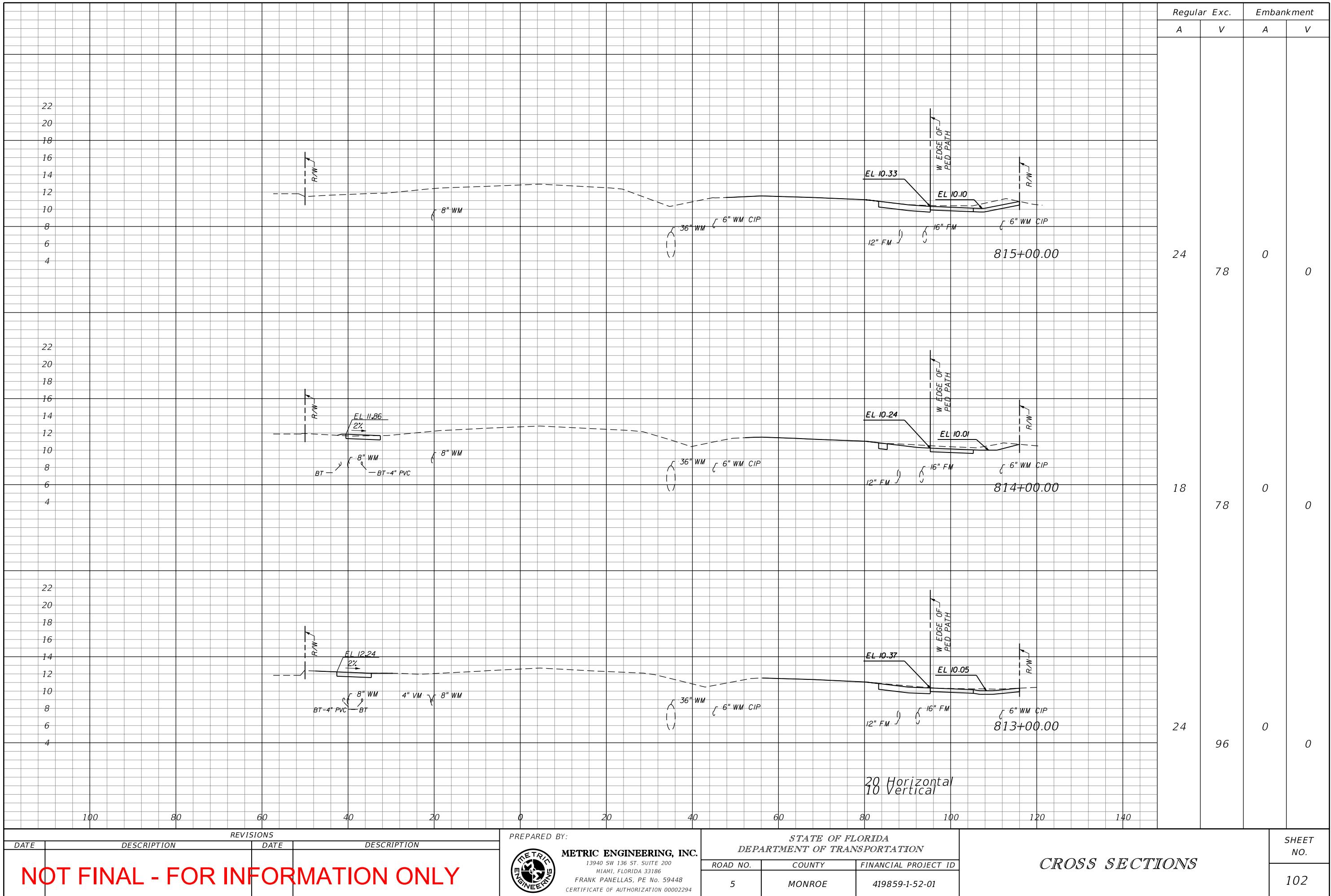
DRAINAGE DETAILS

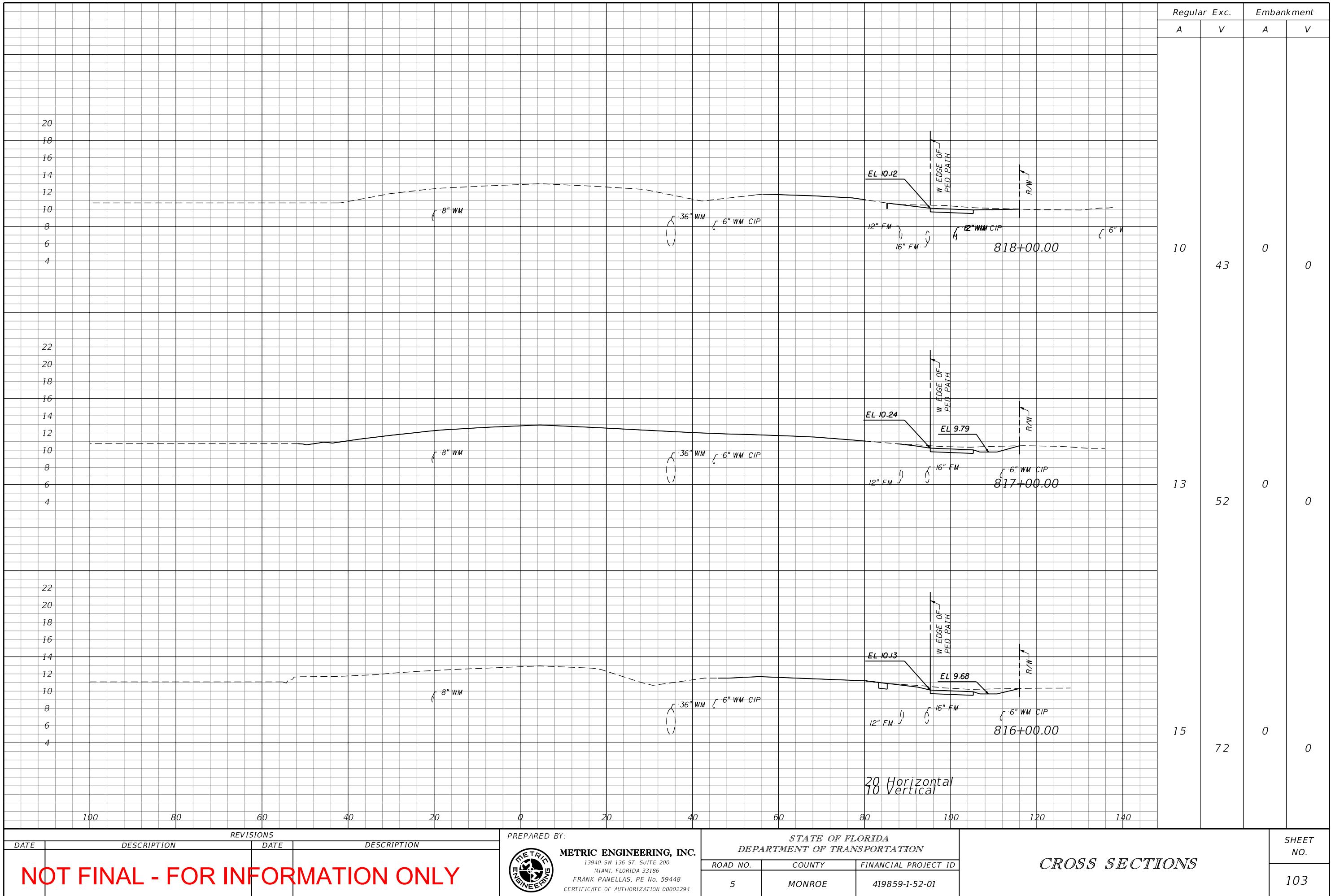
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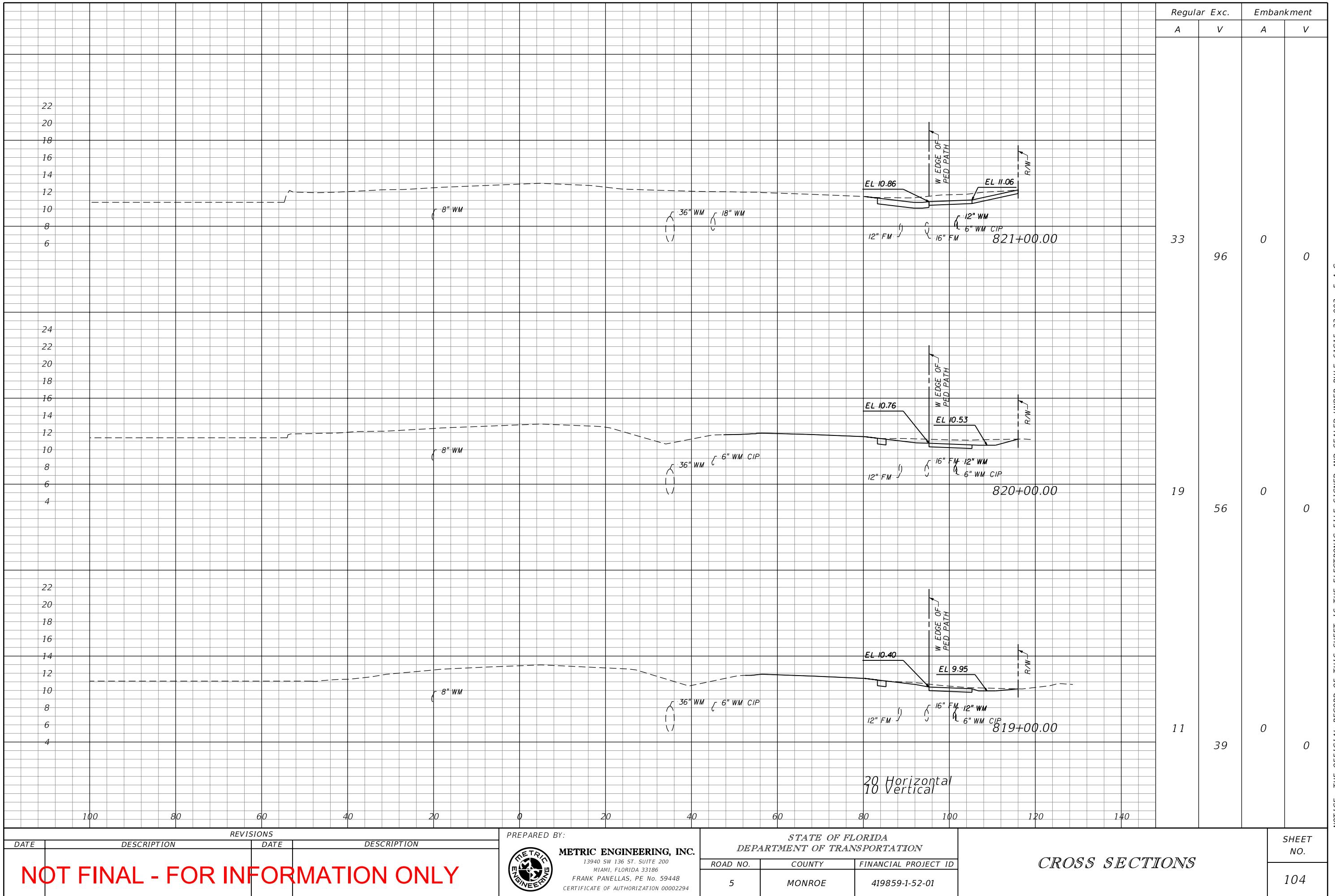


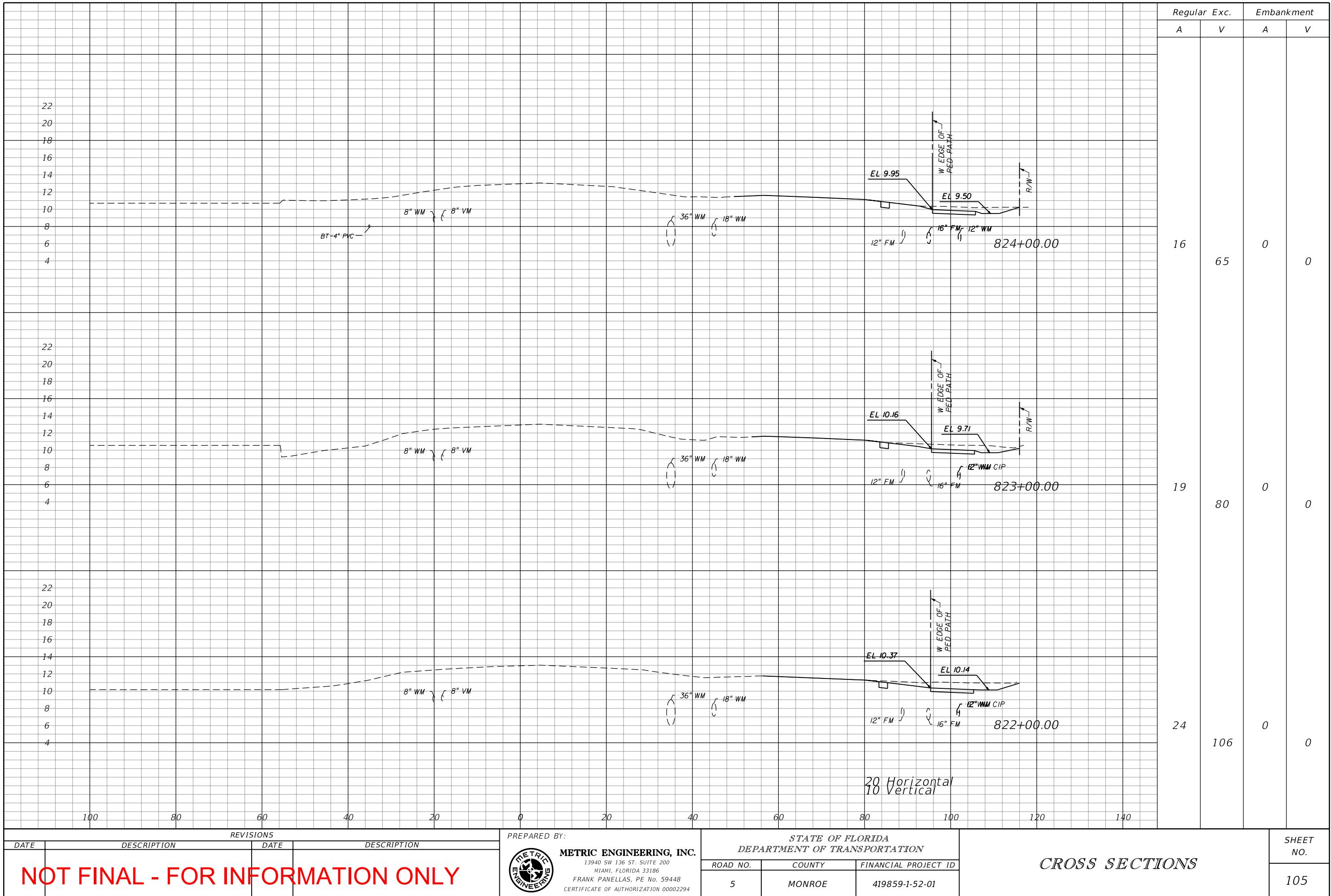






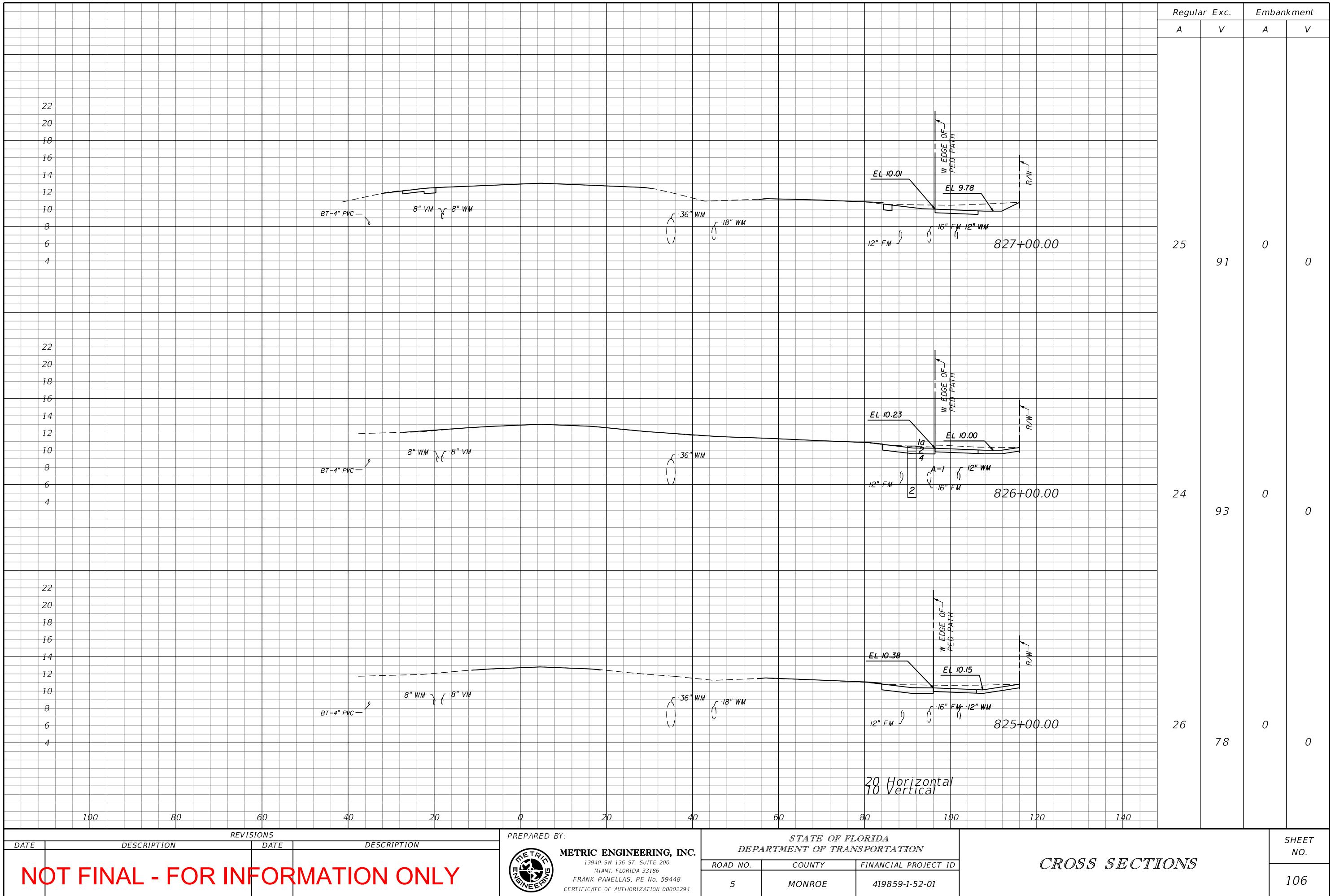


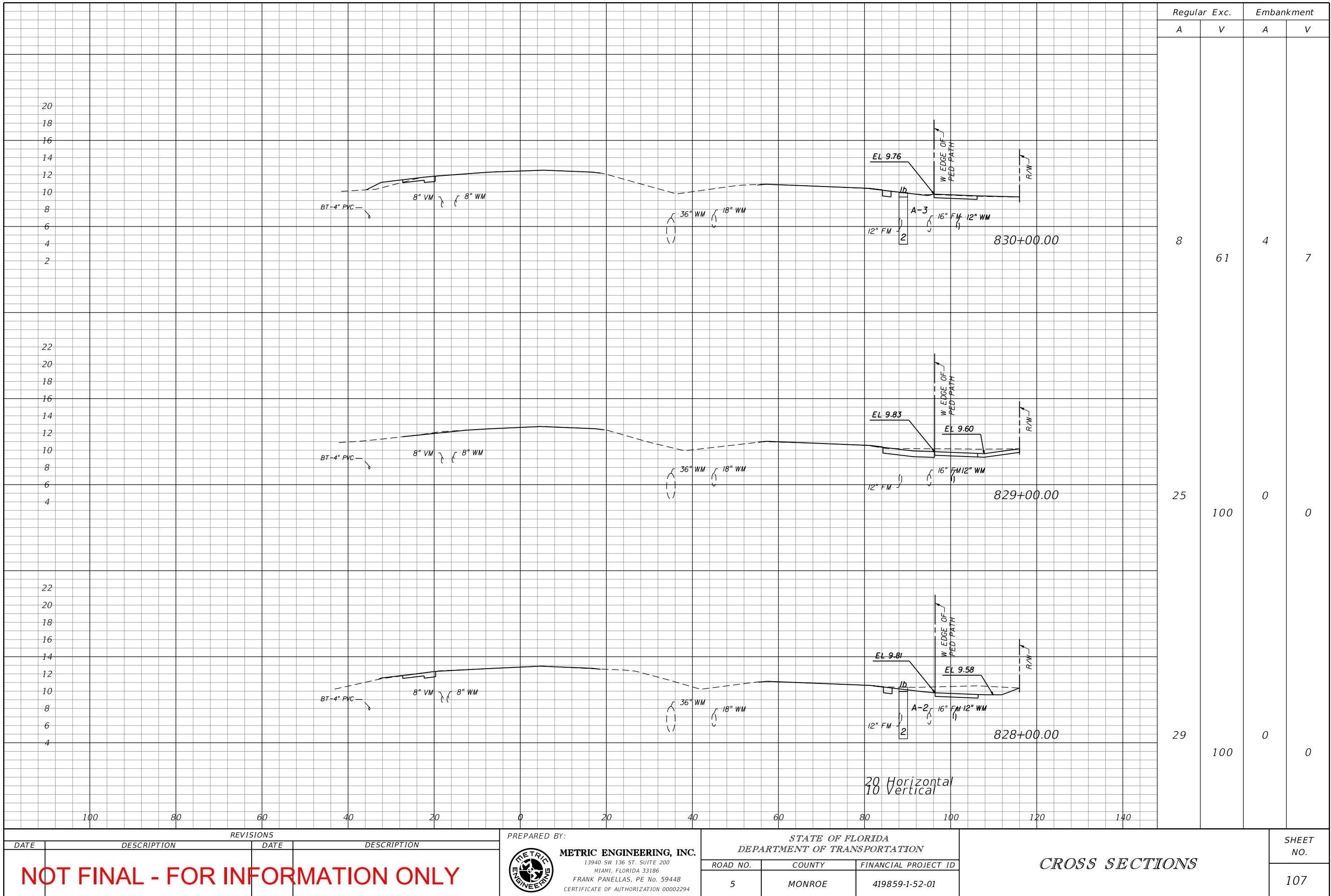


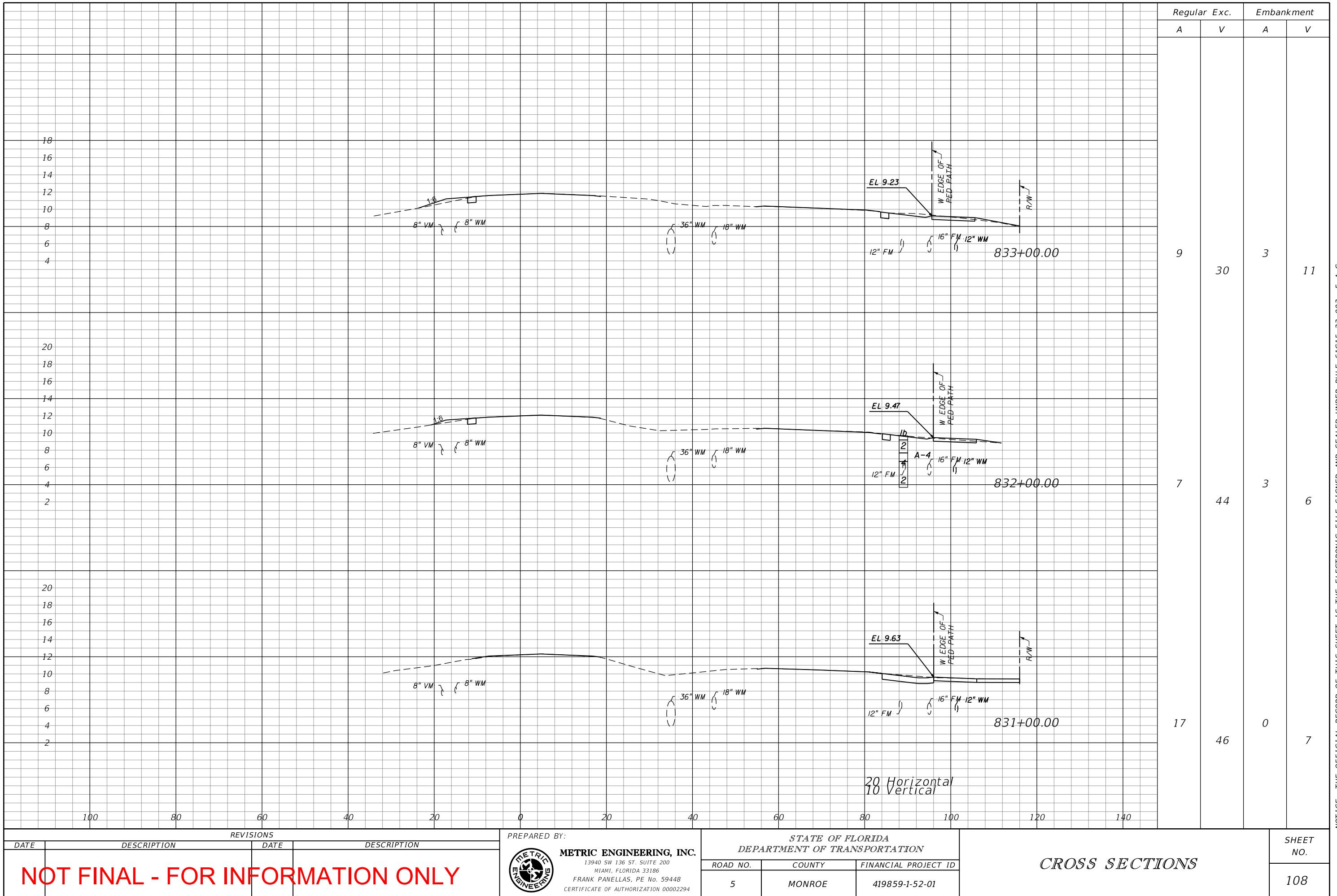


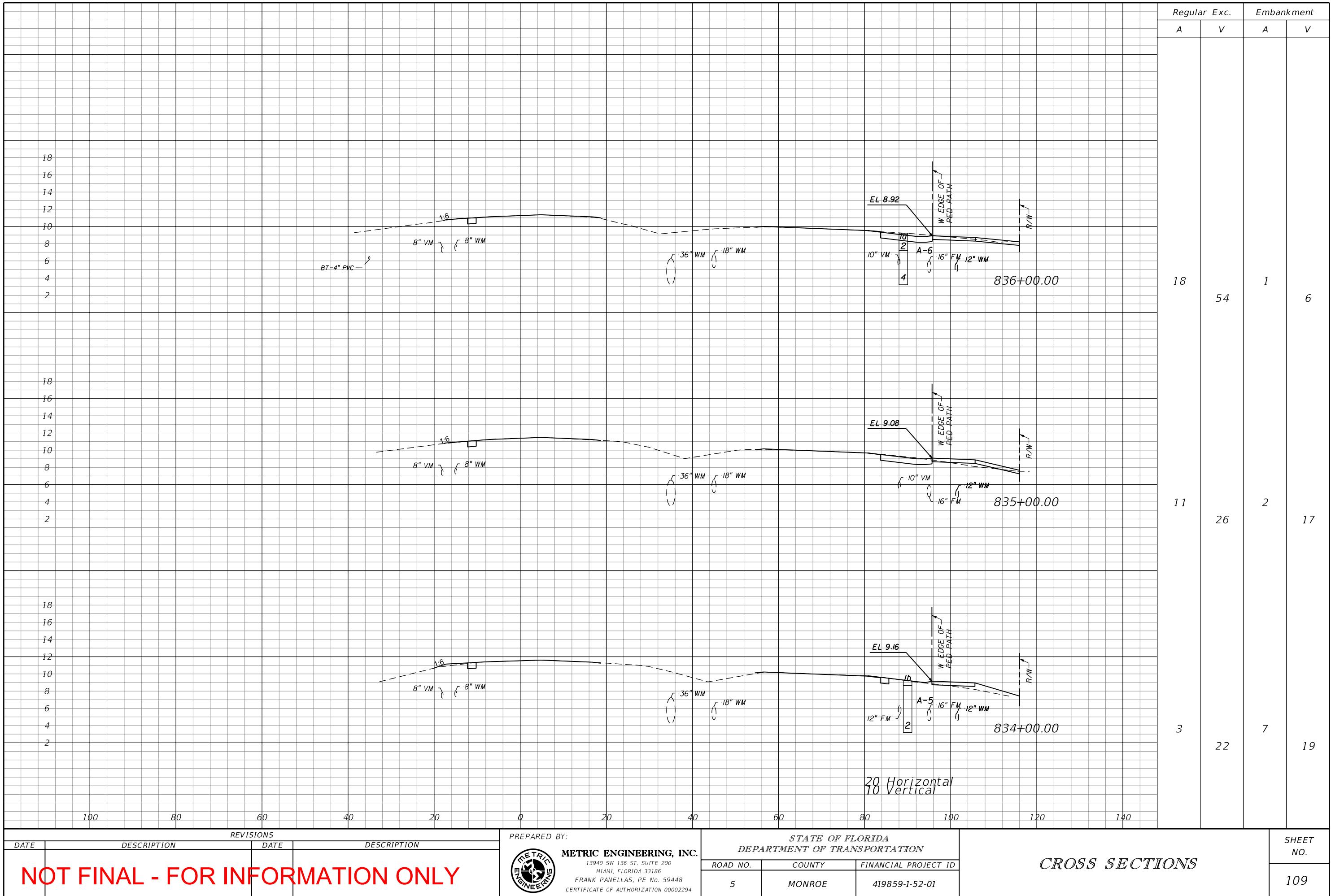
PREPARED BY:
METRIC ENGINEERING, INC.
 13940 SW 136 ST. SUITE 200
 MIAMI, FLORIDA 33186
 FRANK PANELLAS, PE No. 59448
 CERTIFICATE OF AUTHORIZATION 00002294

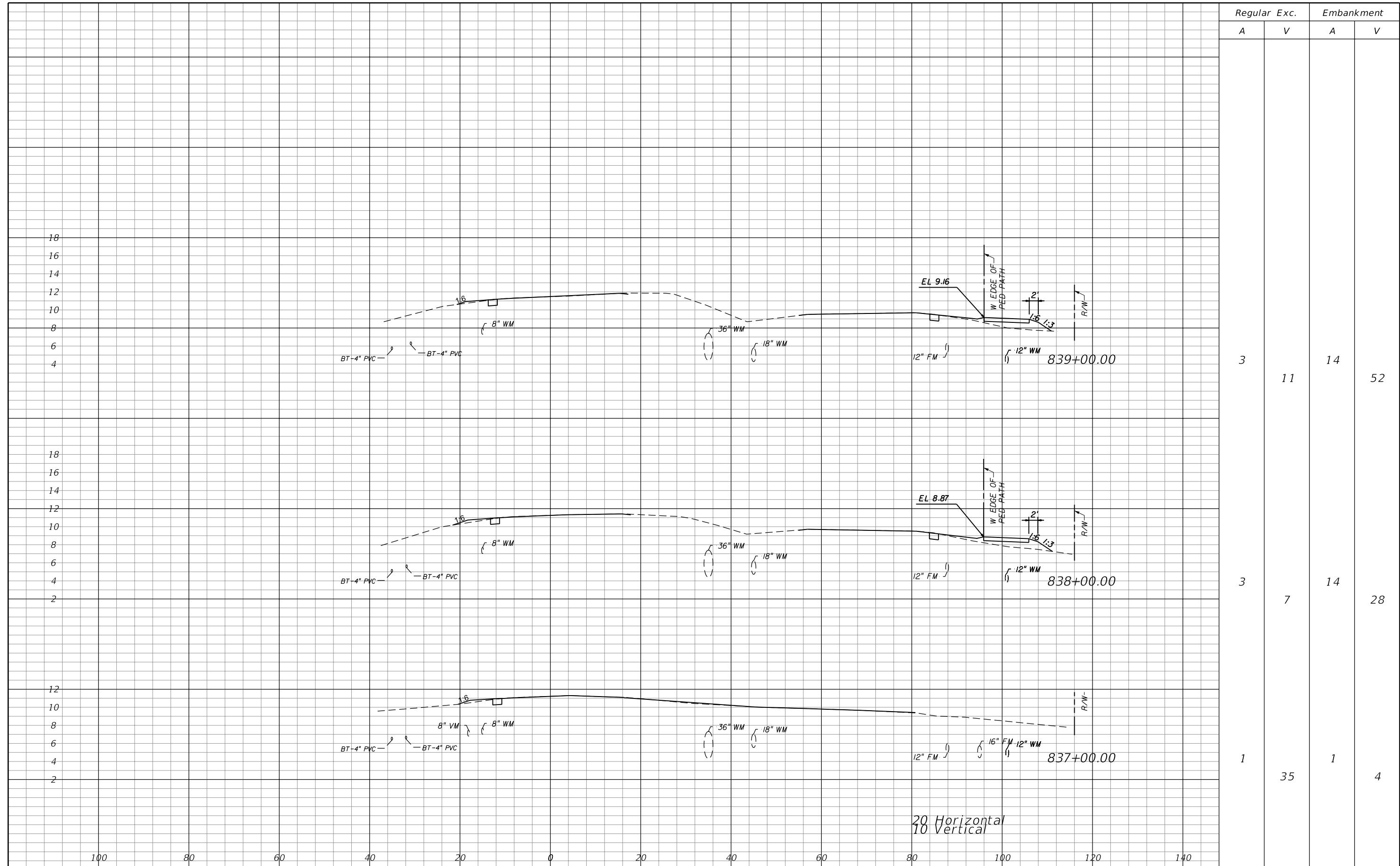
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01





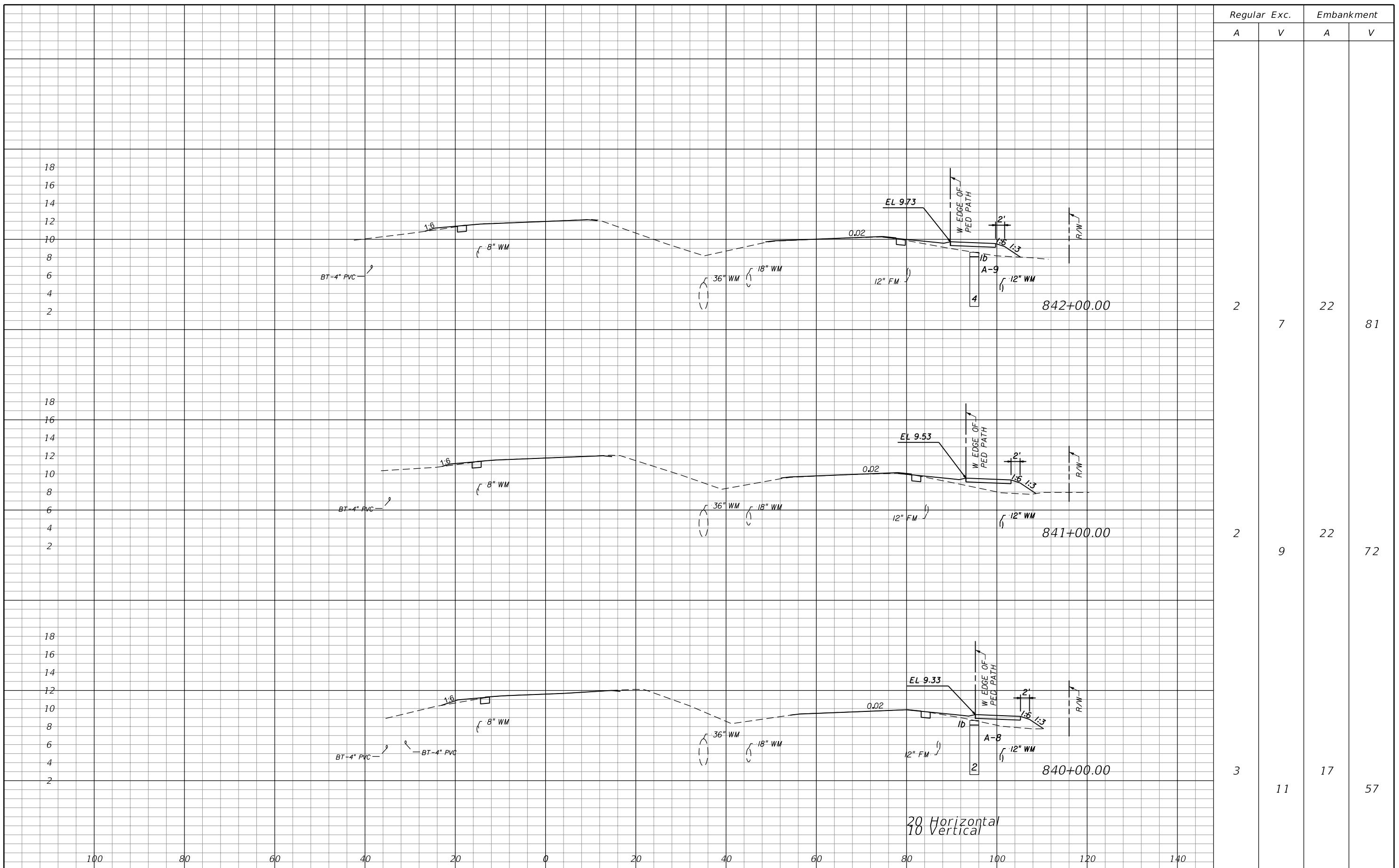






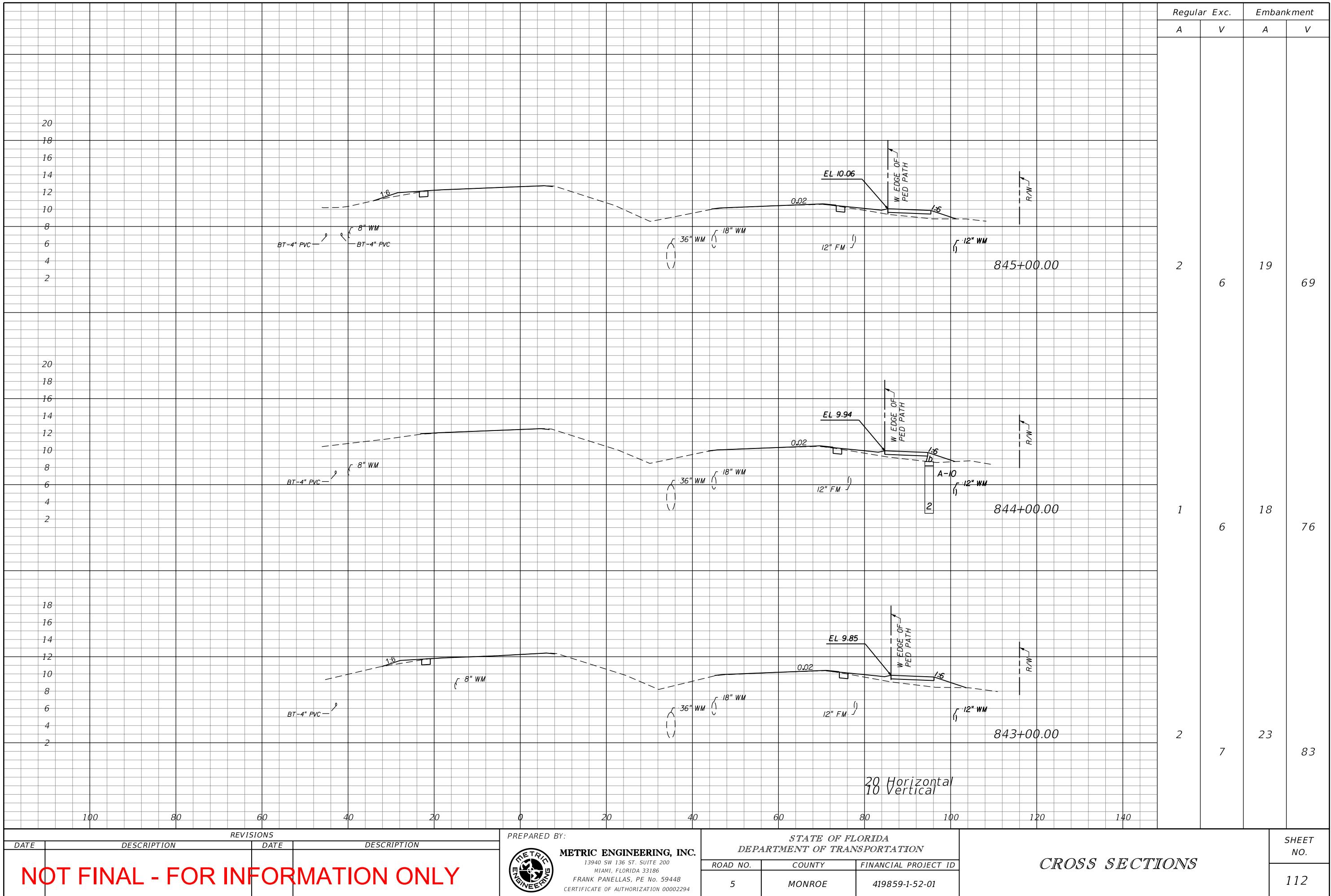
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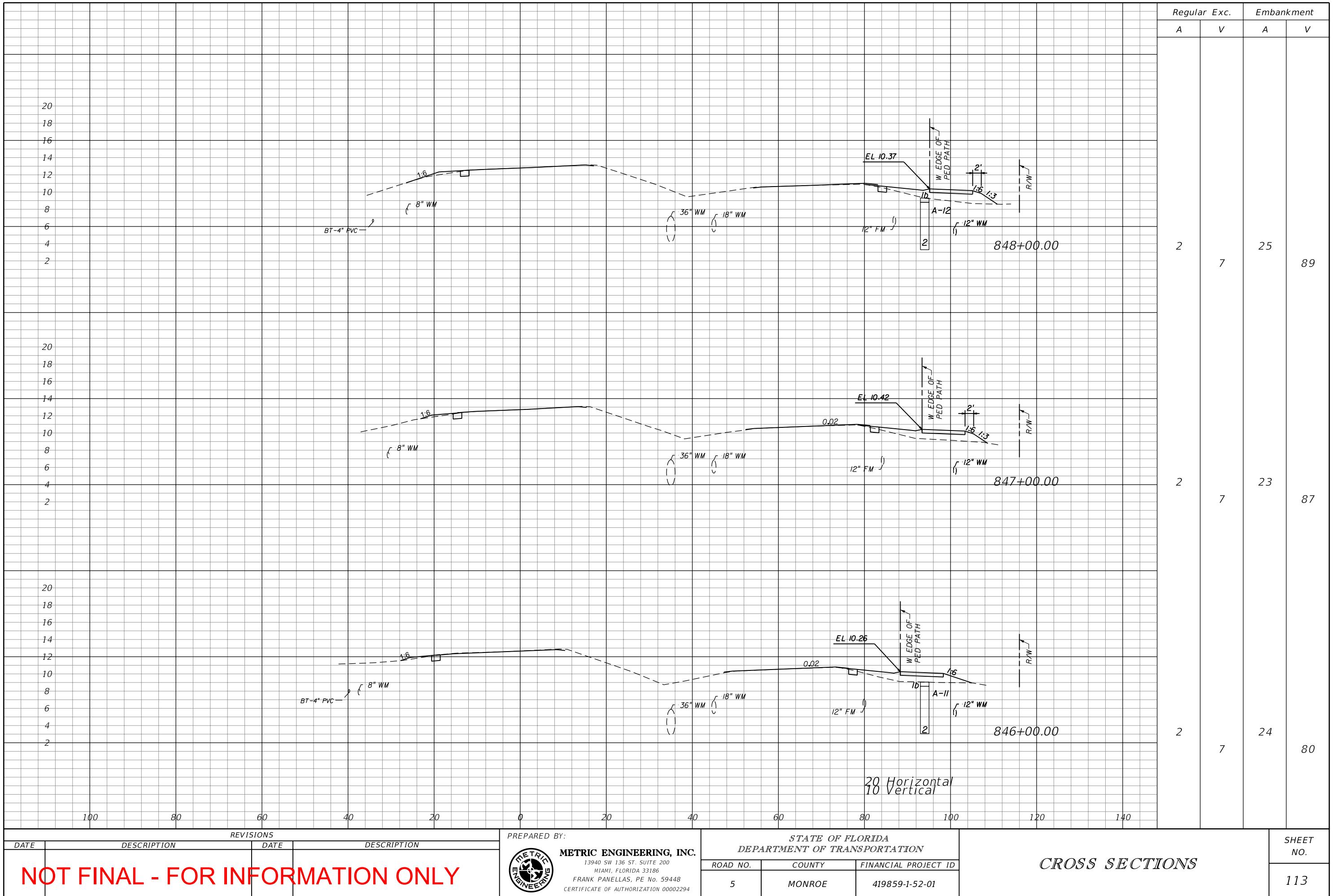
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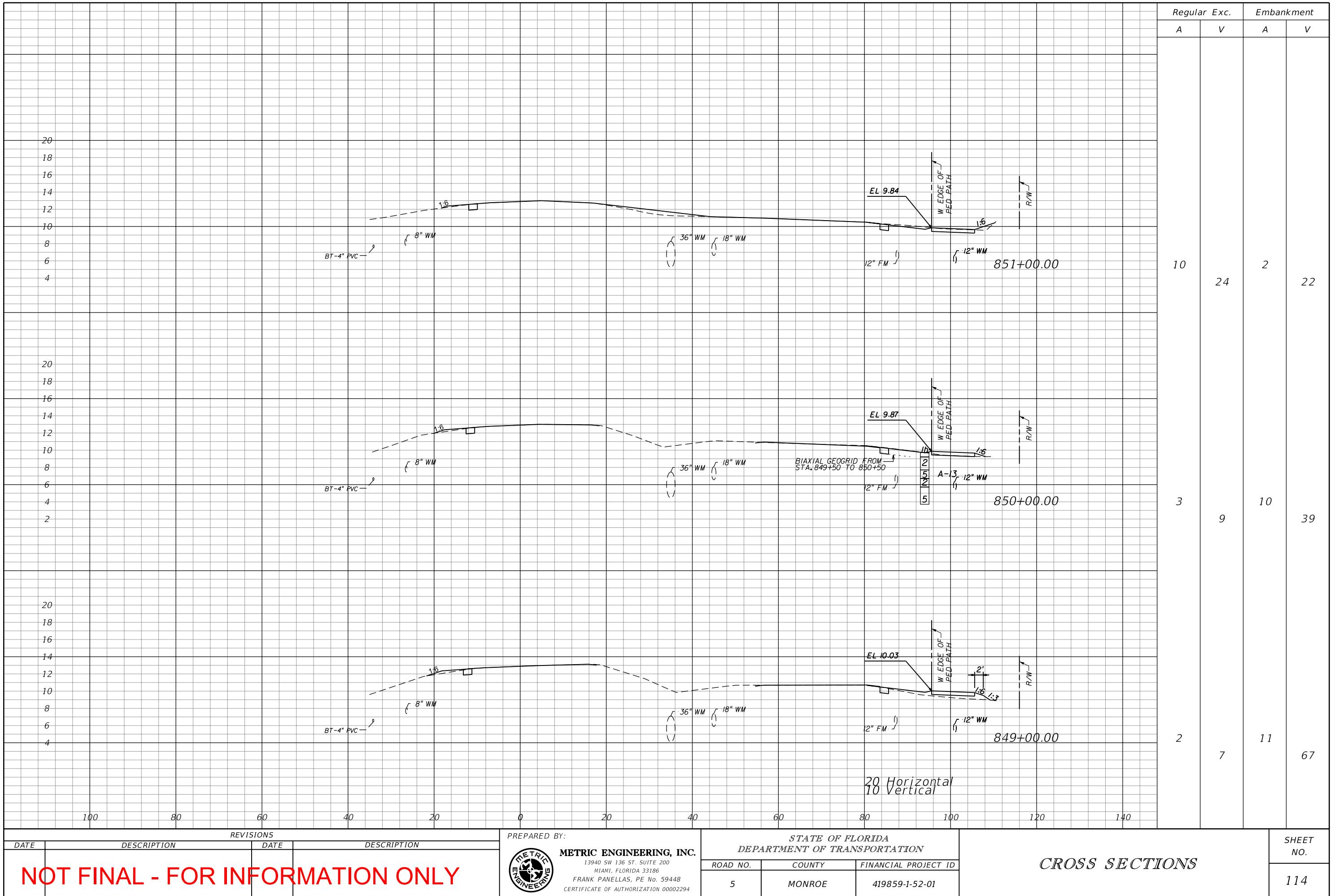


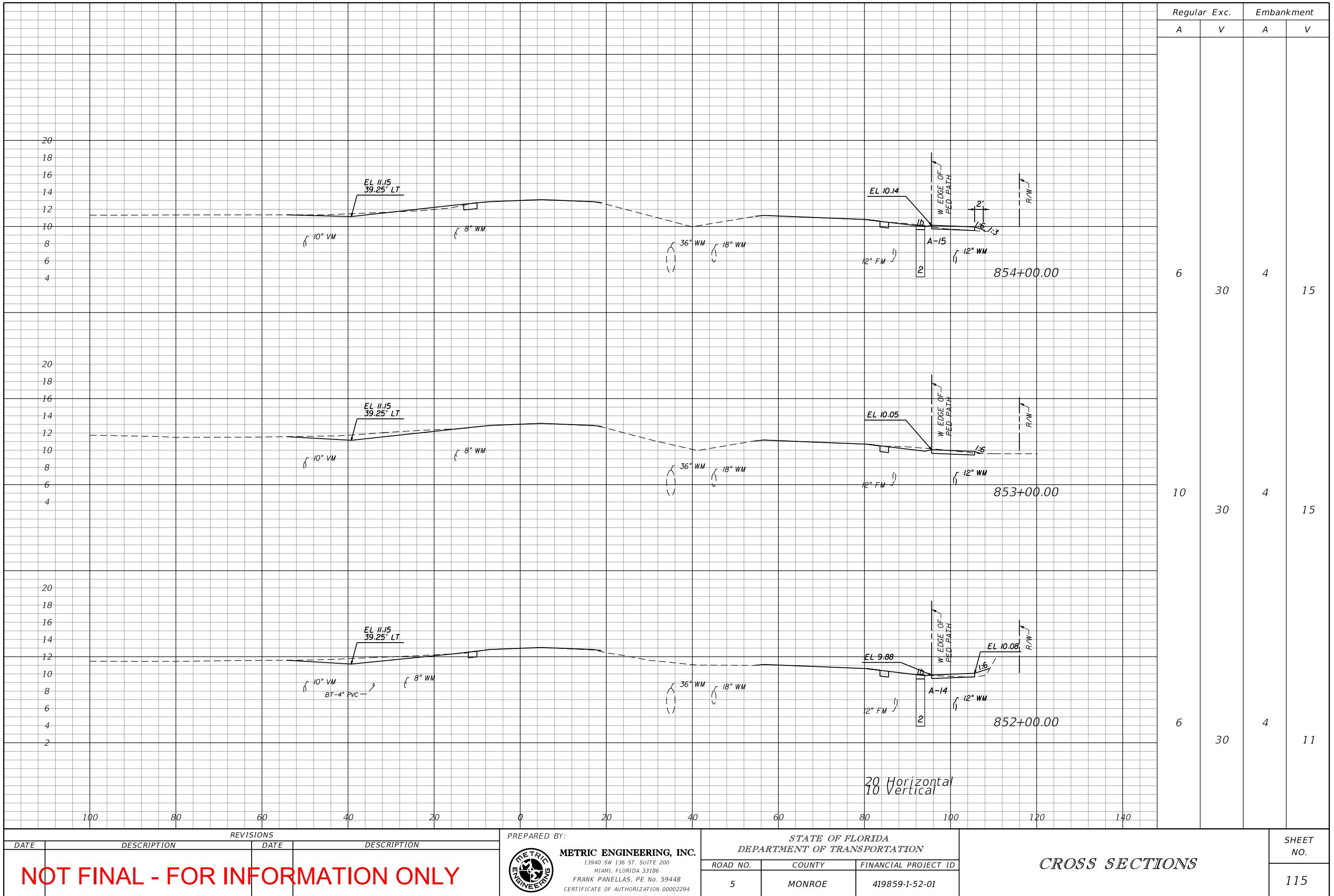
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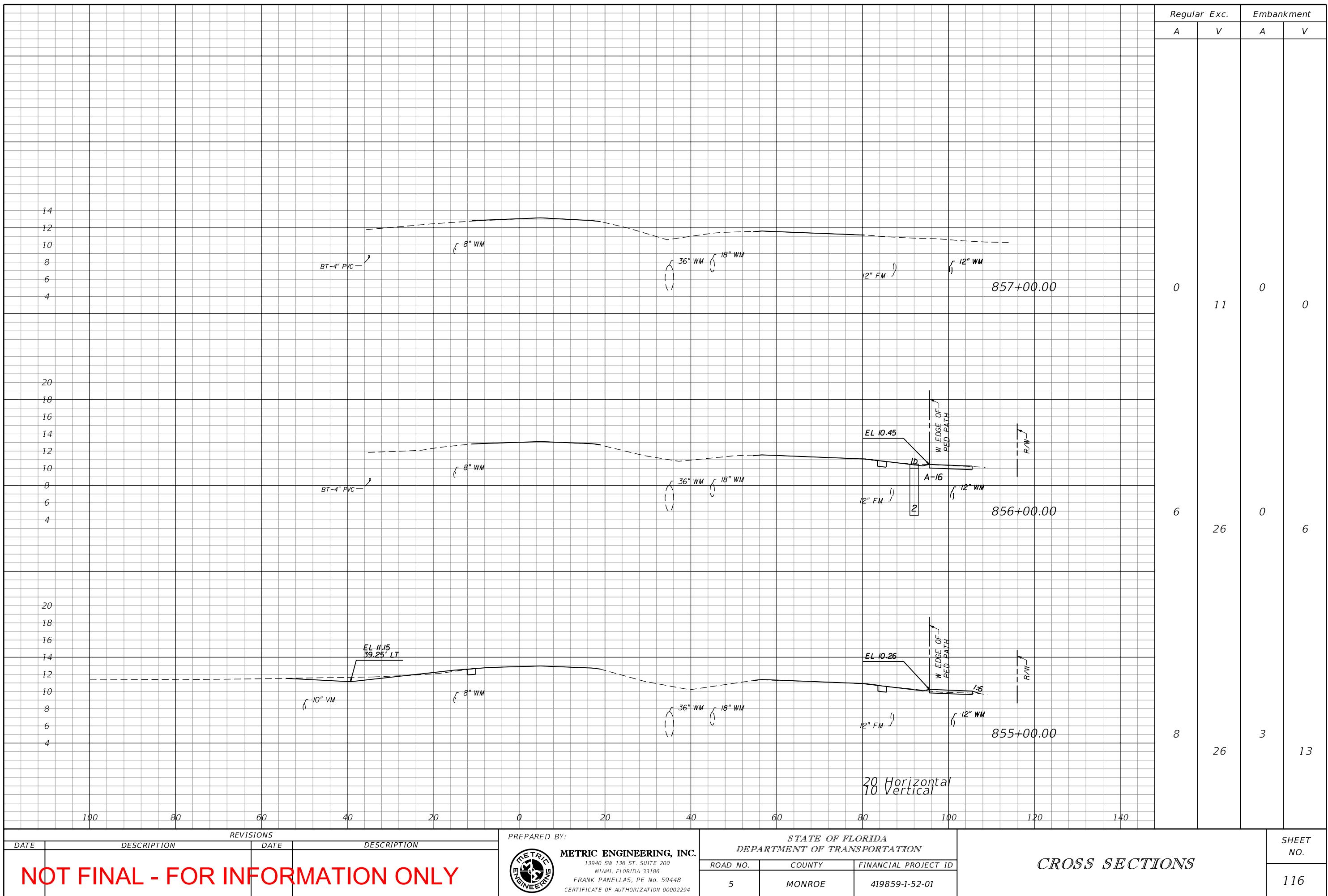
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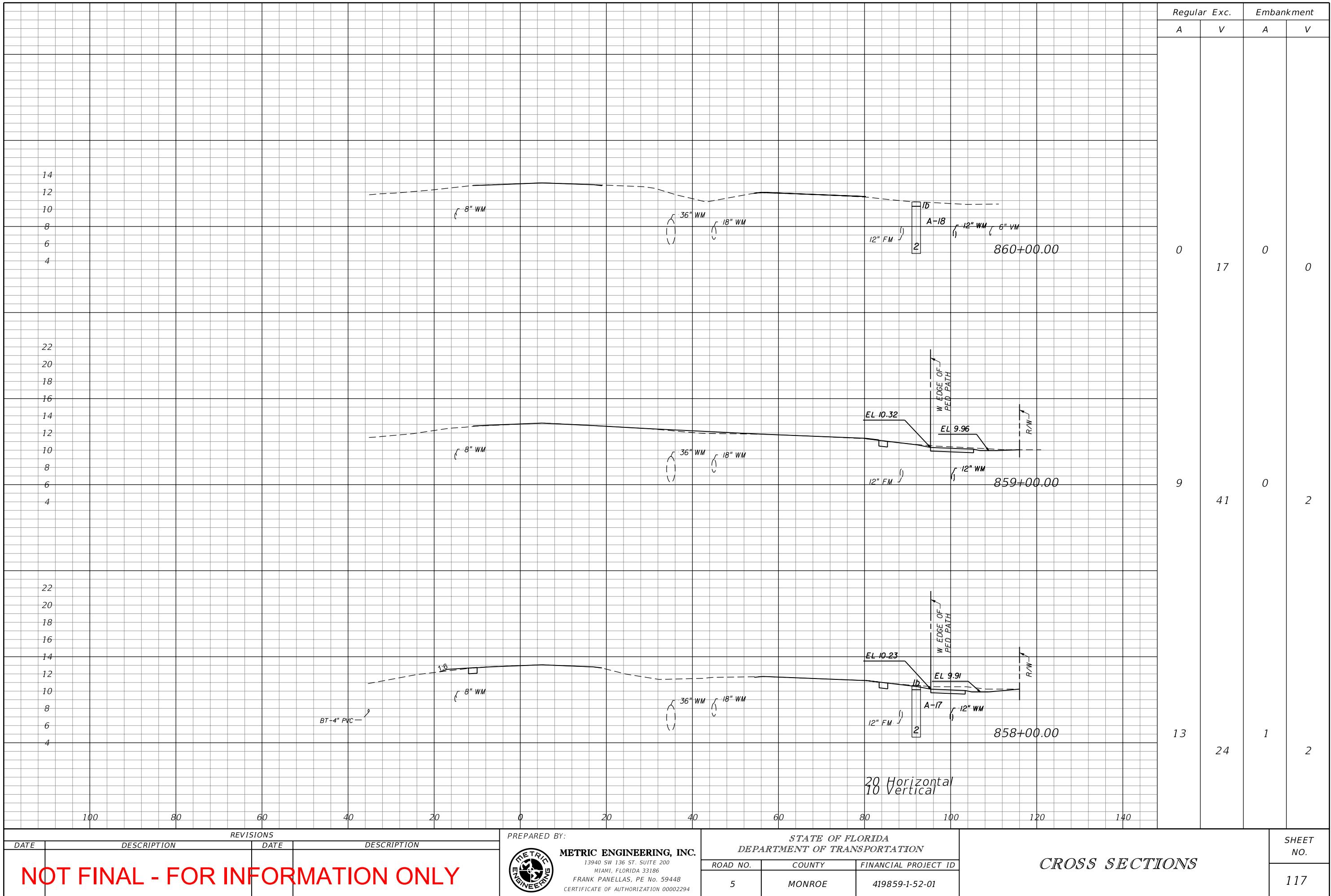


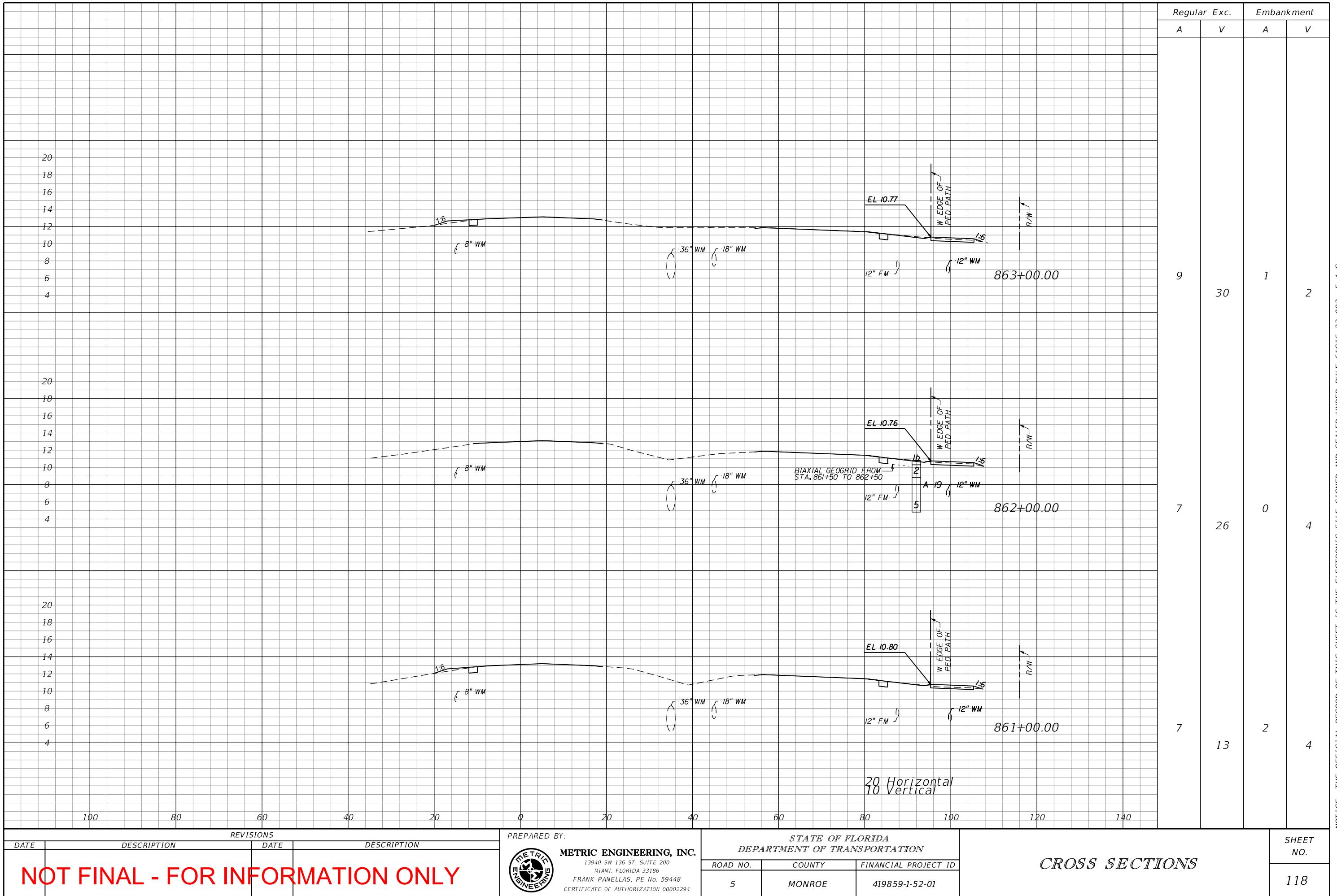


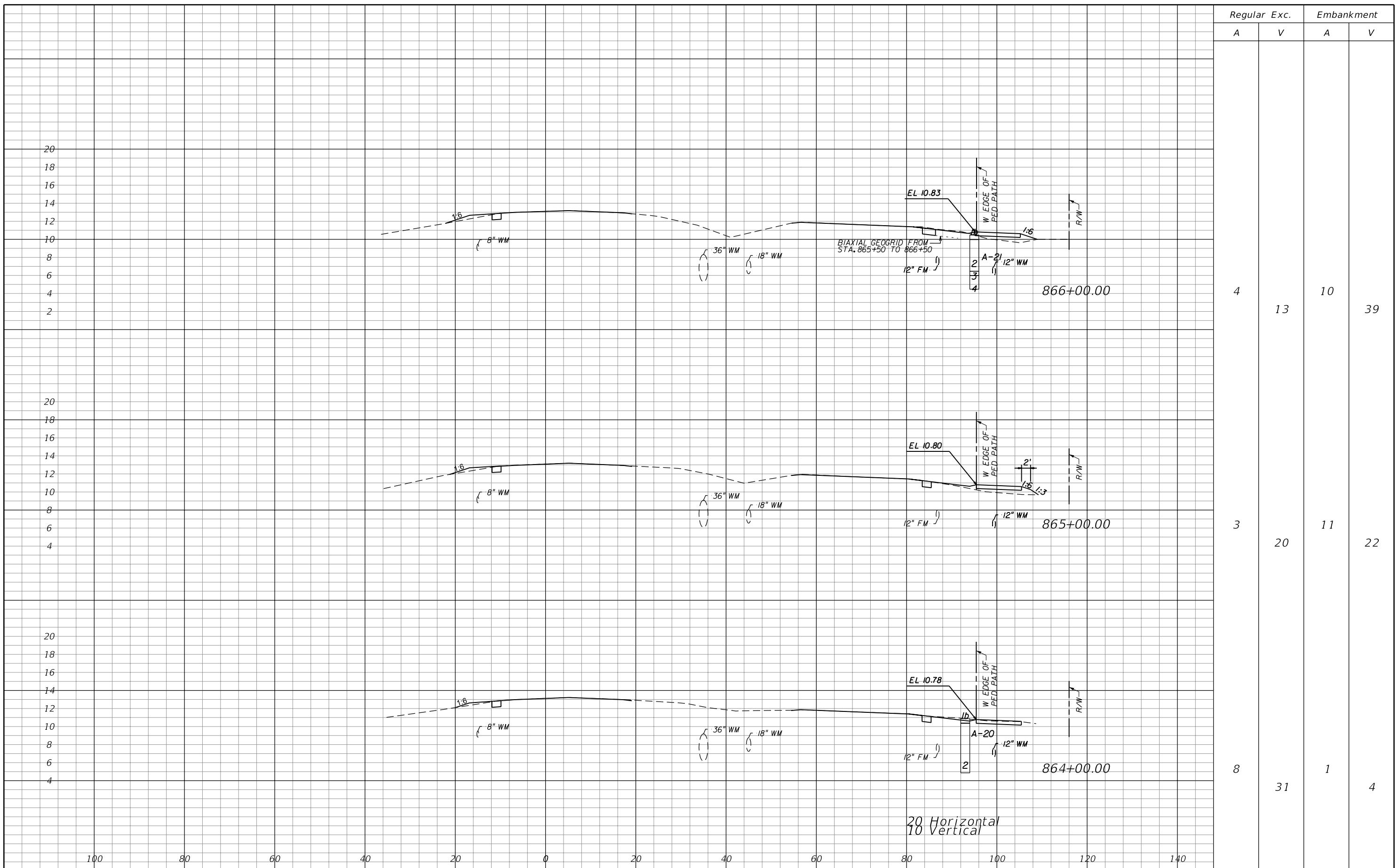






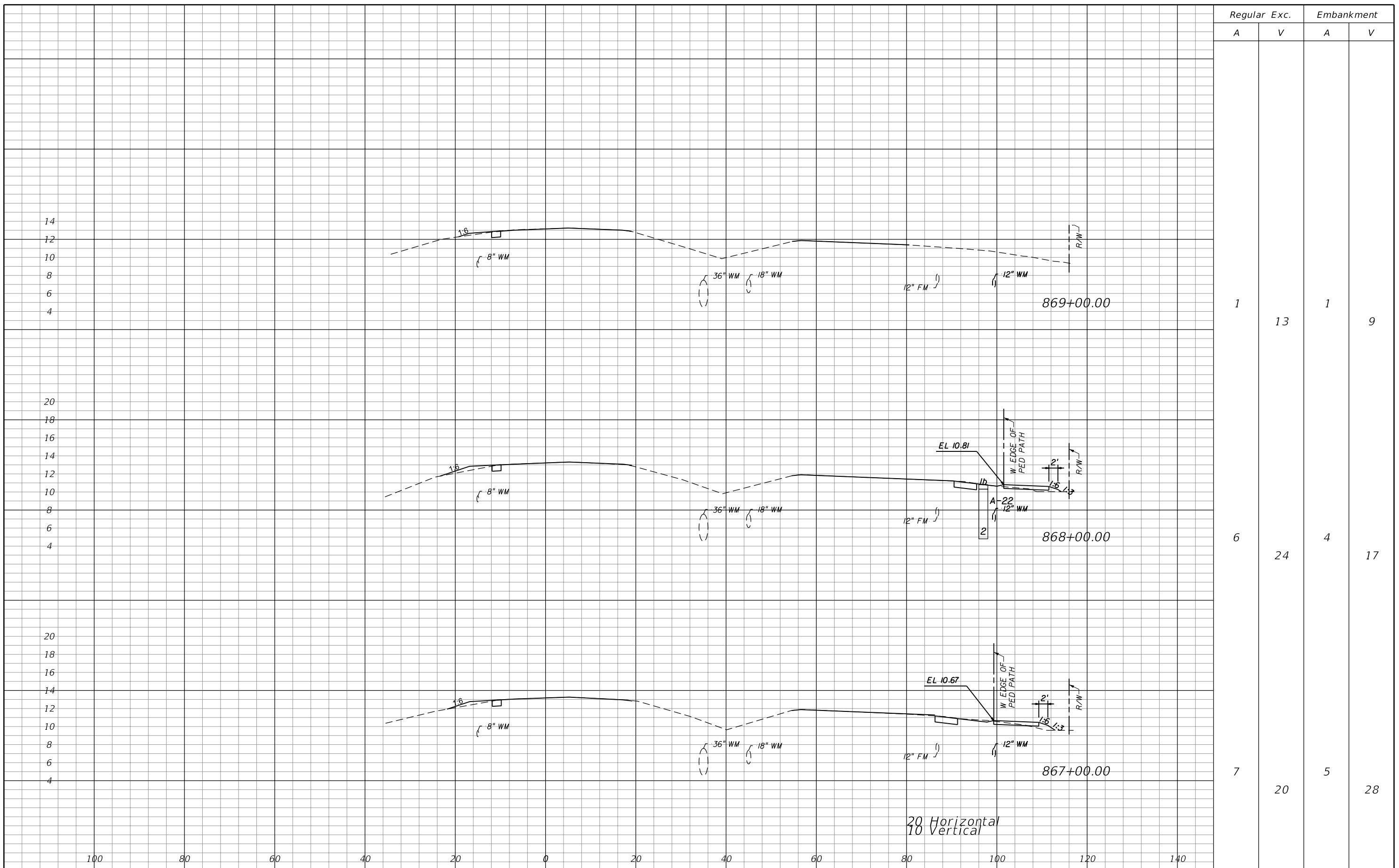




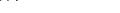


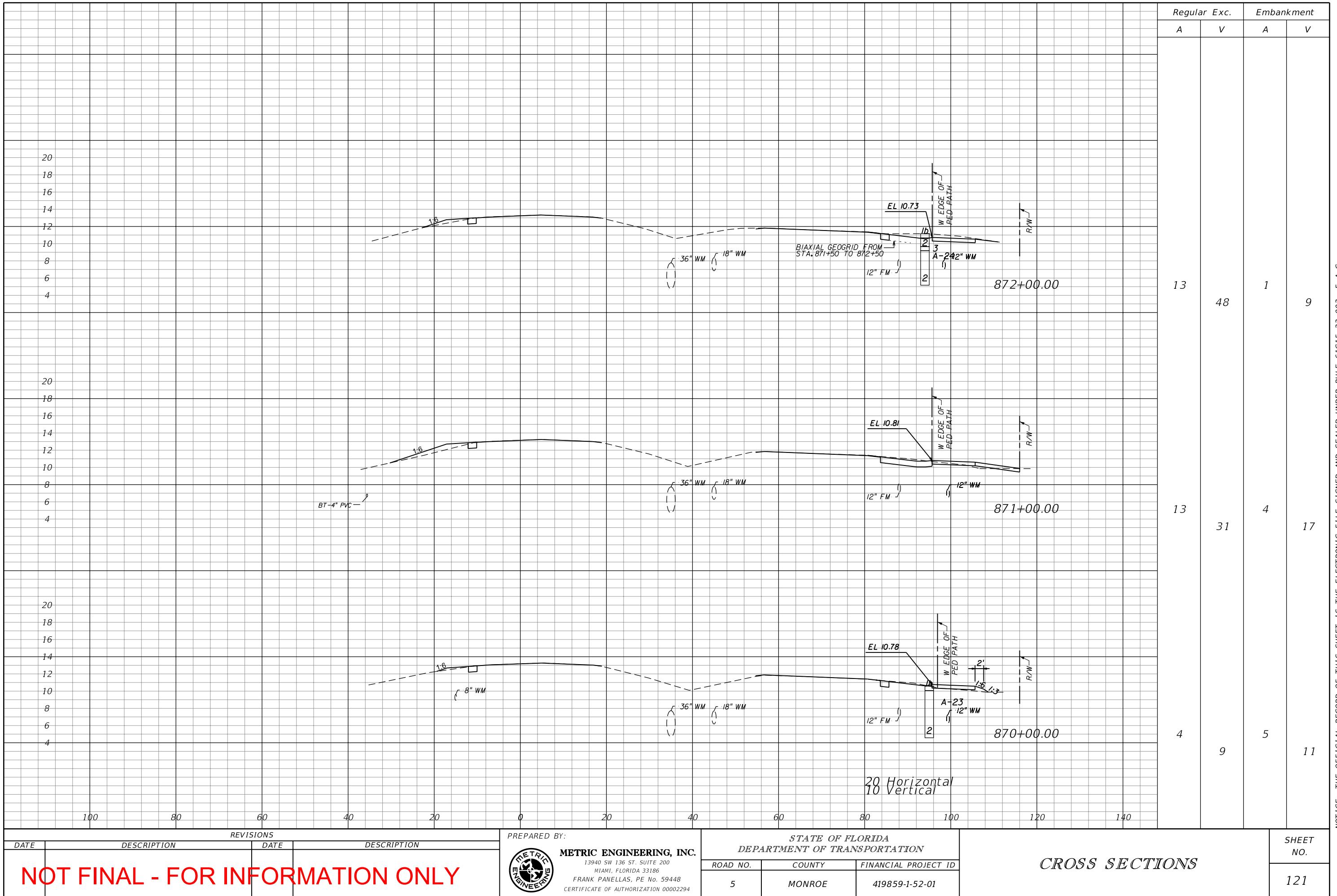
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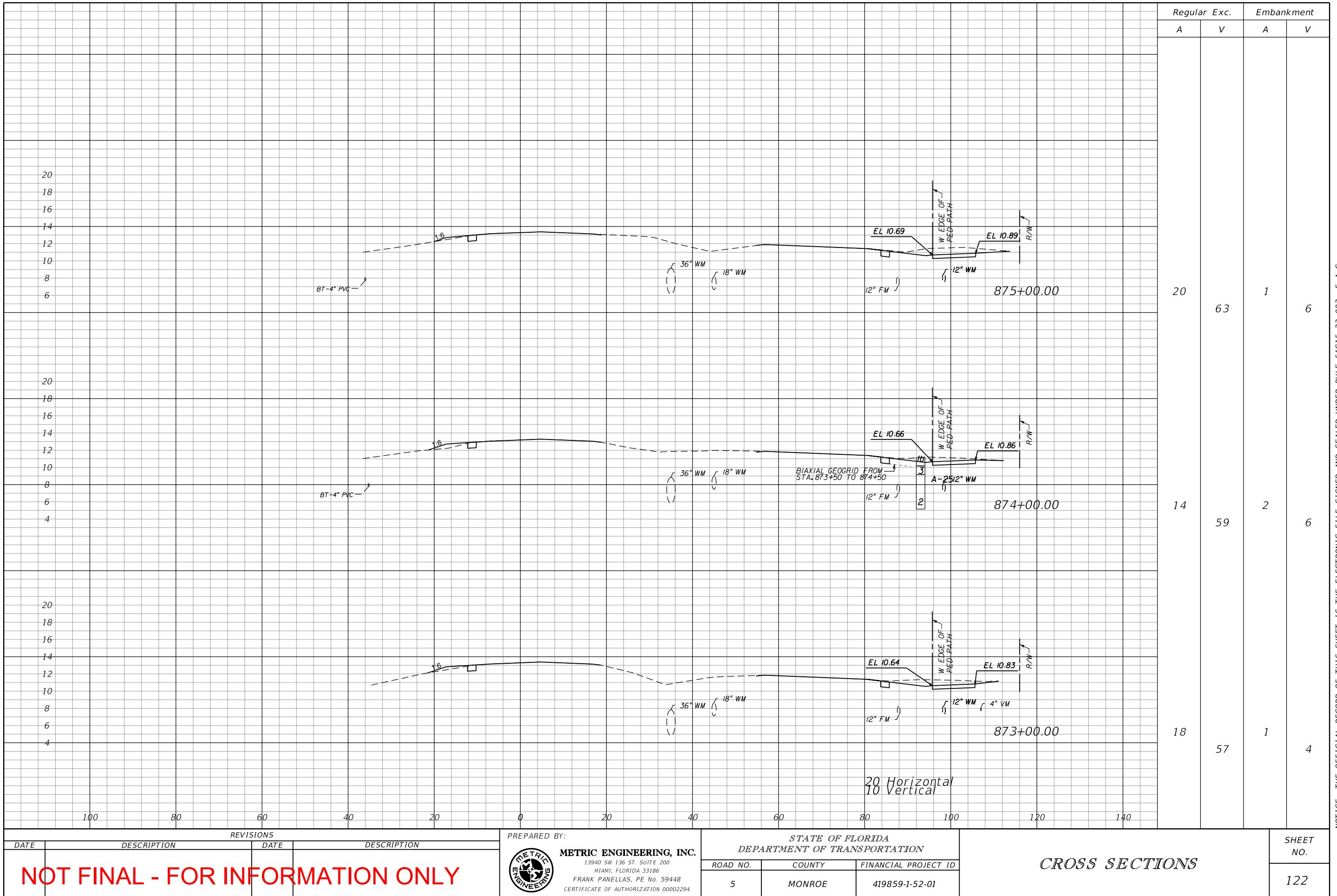
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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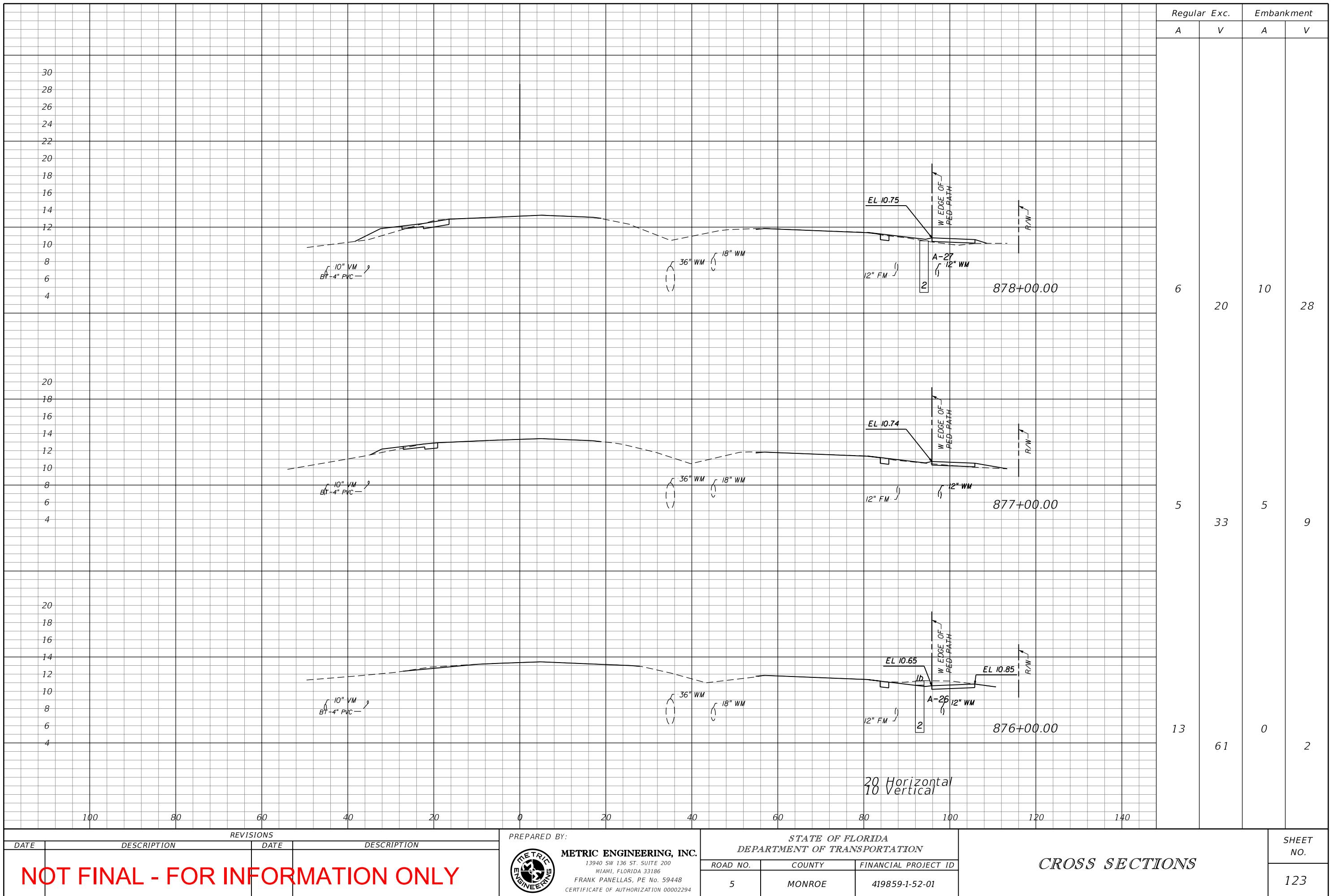


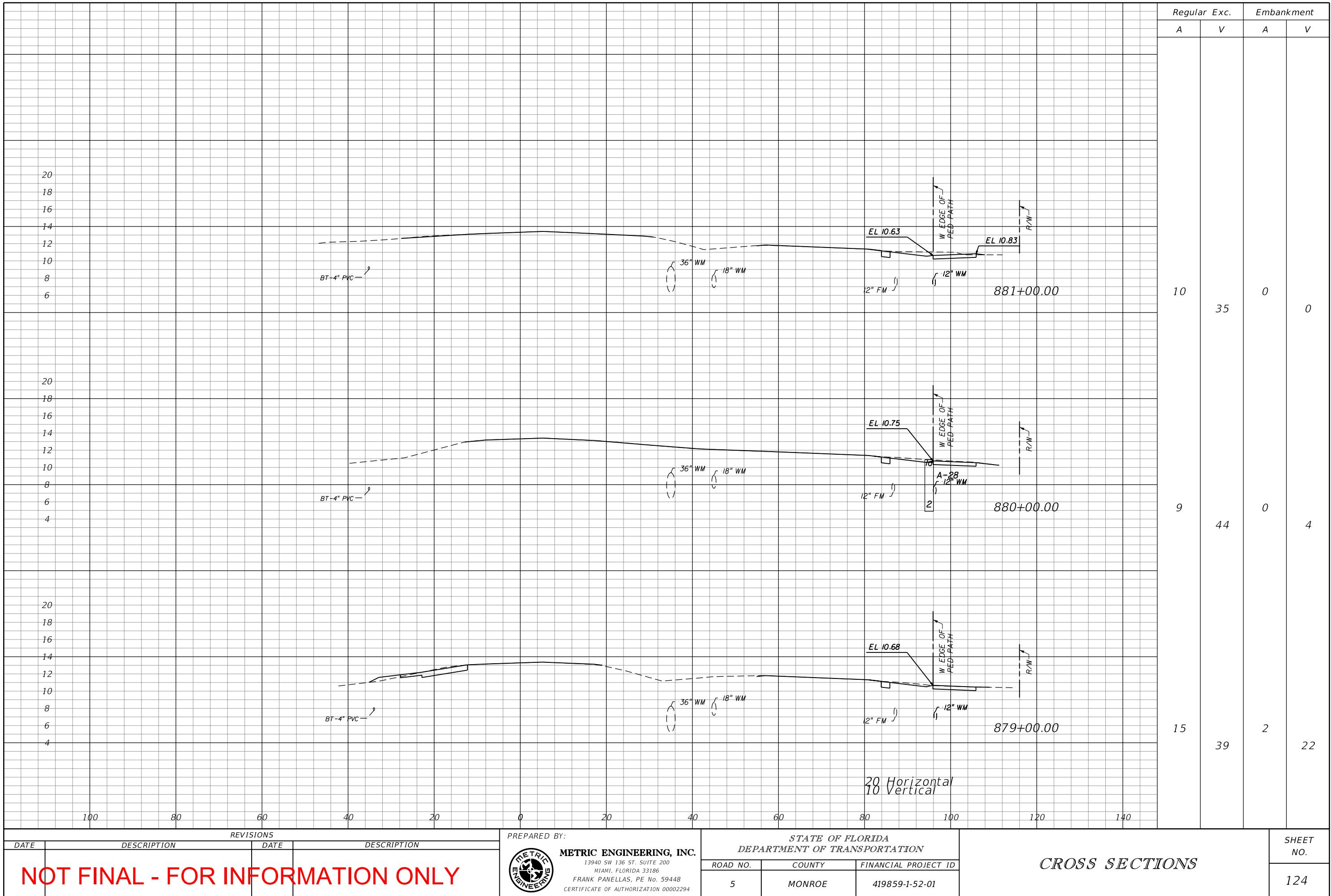
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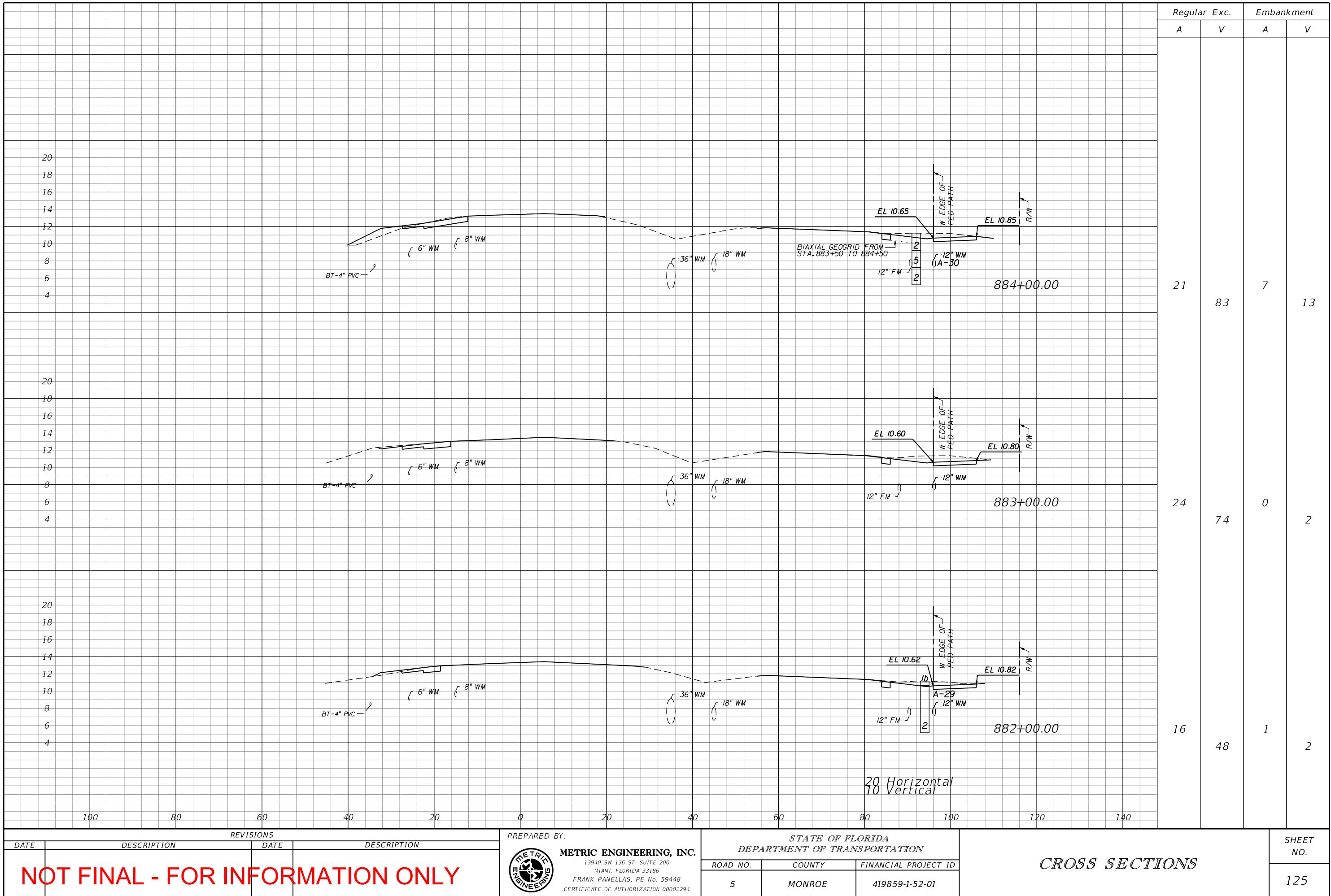
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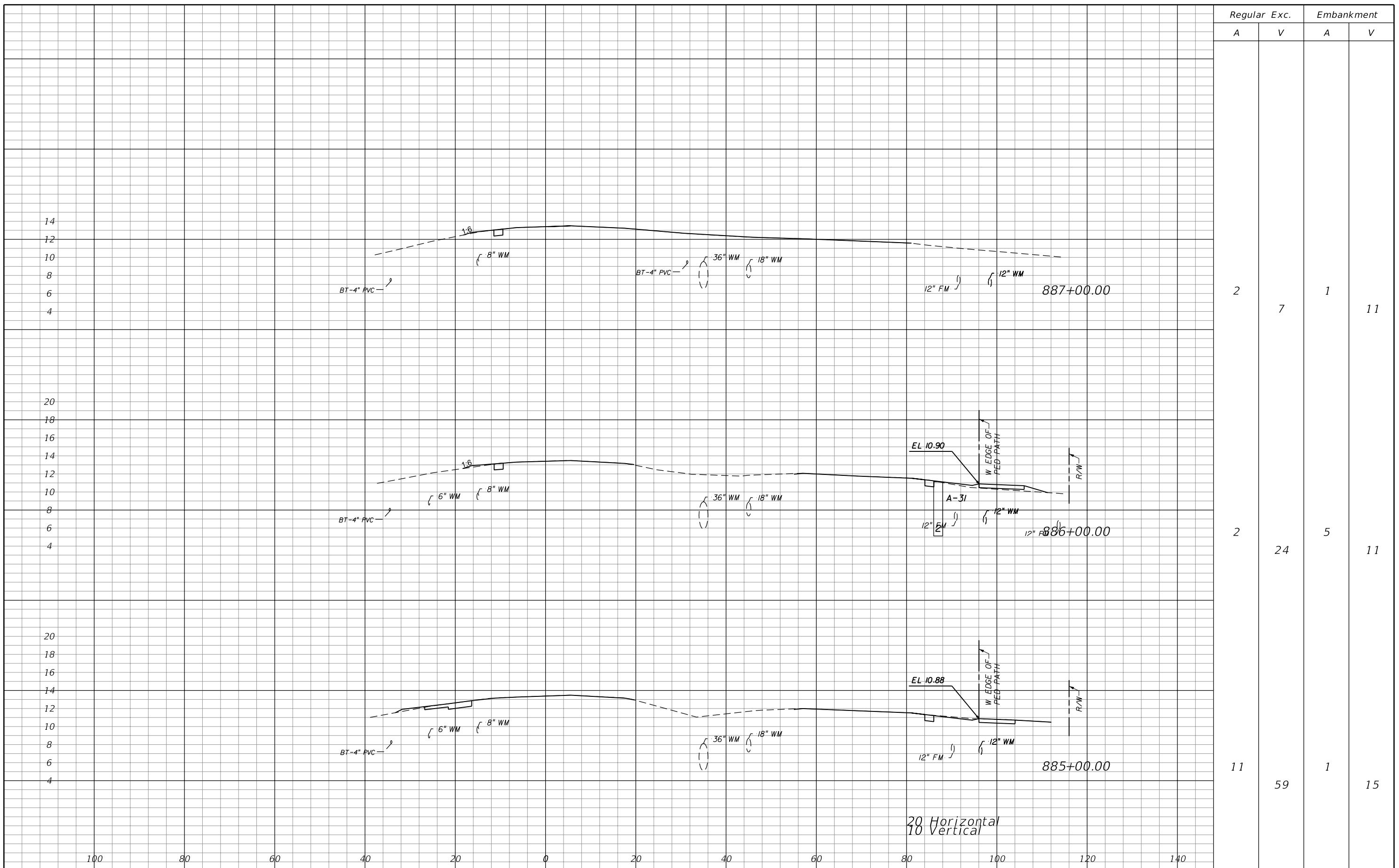






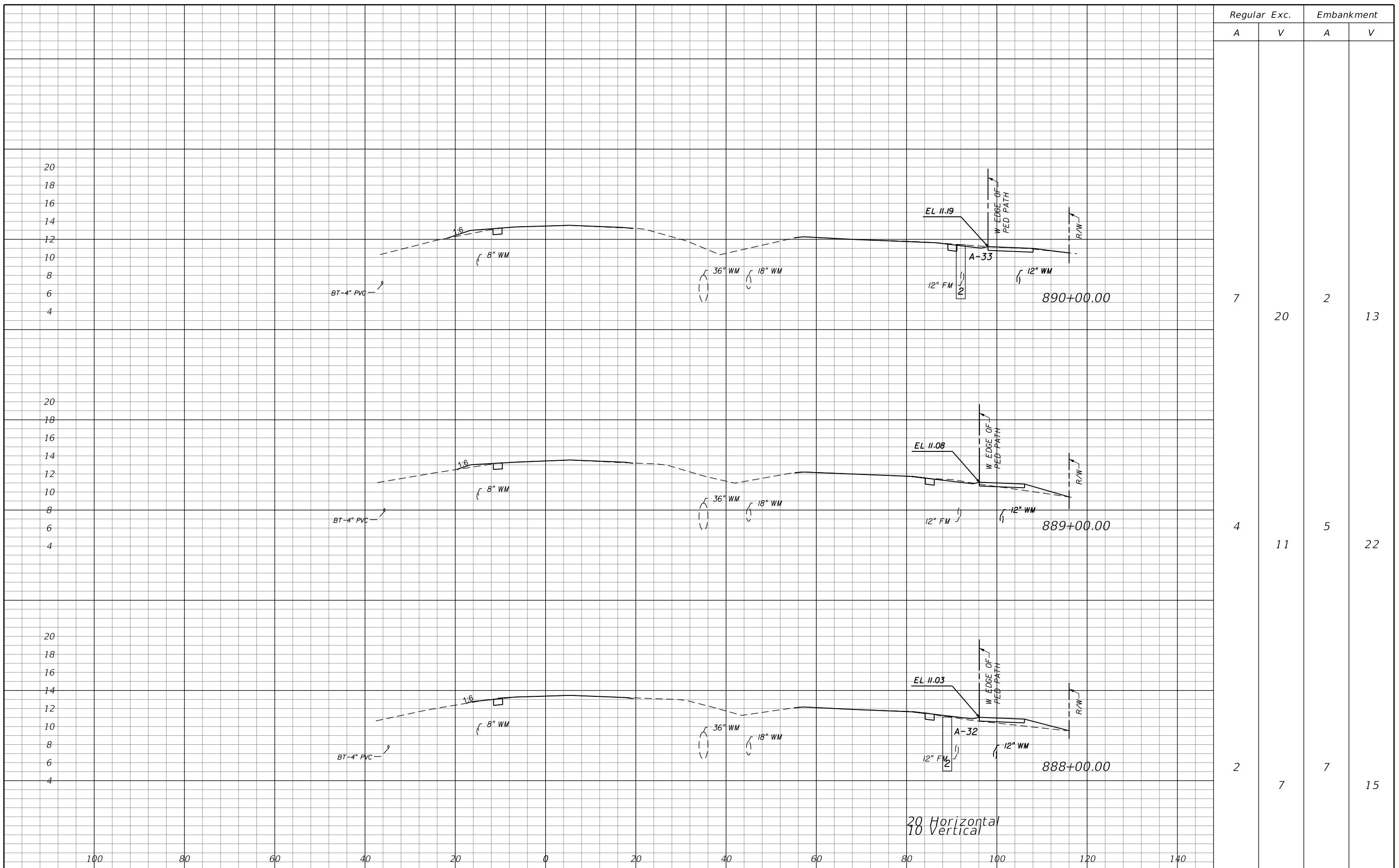






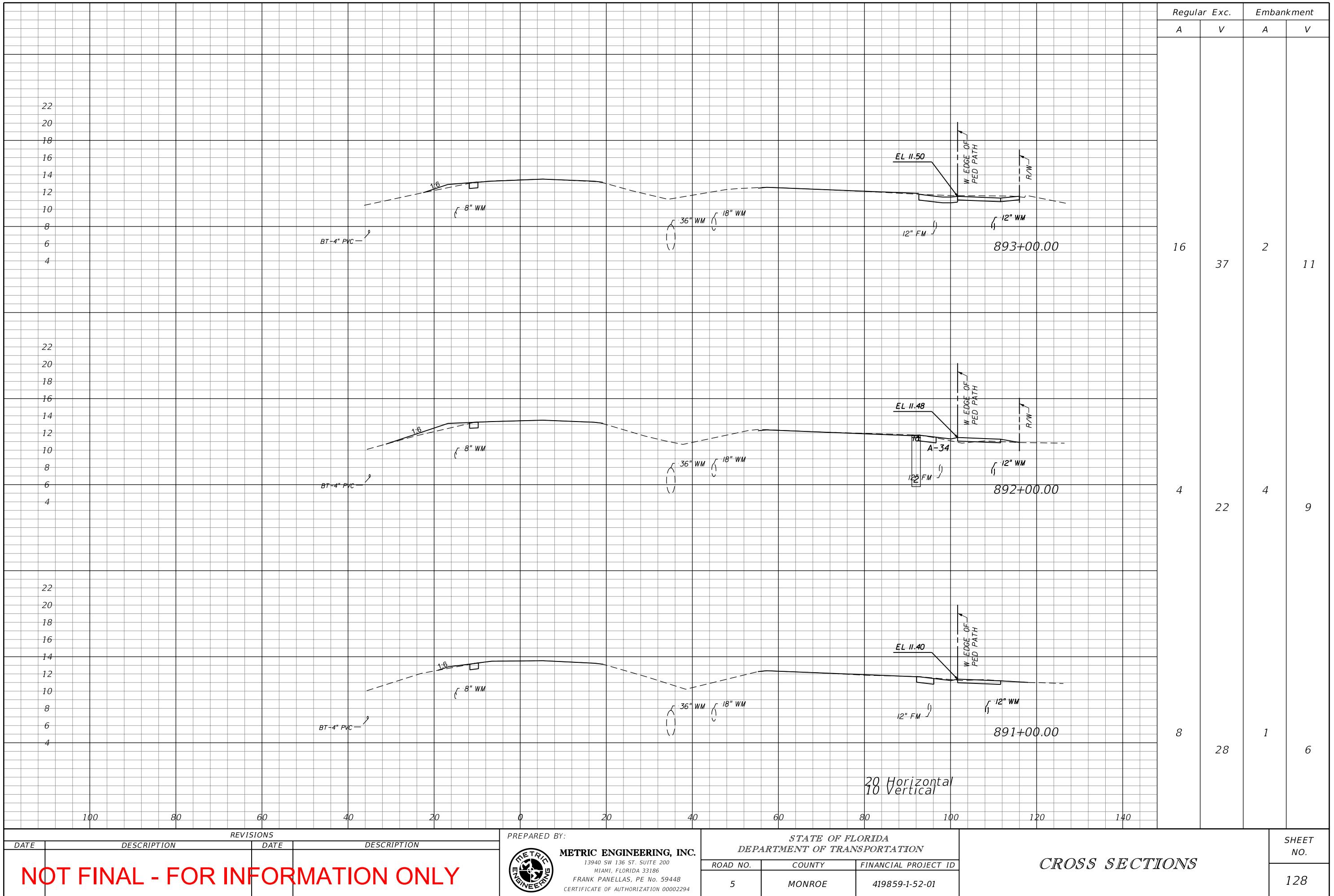
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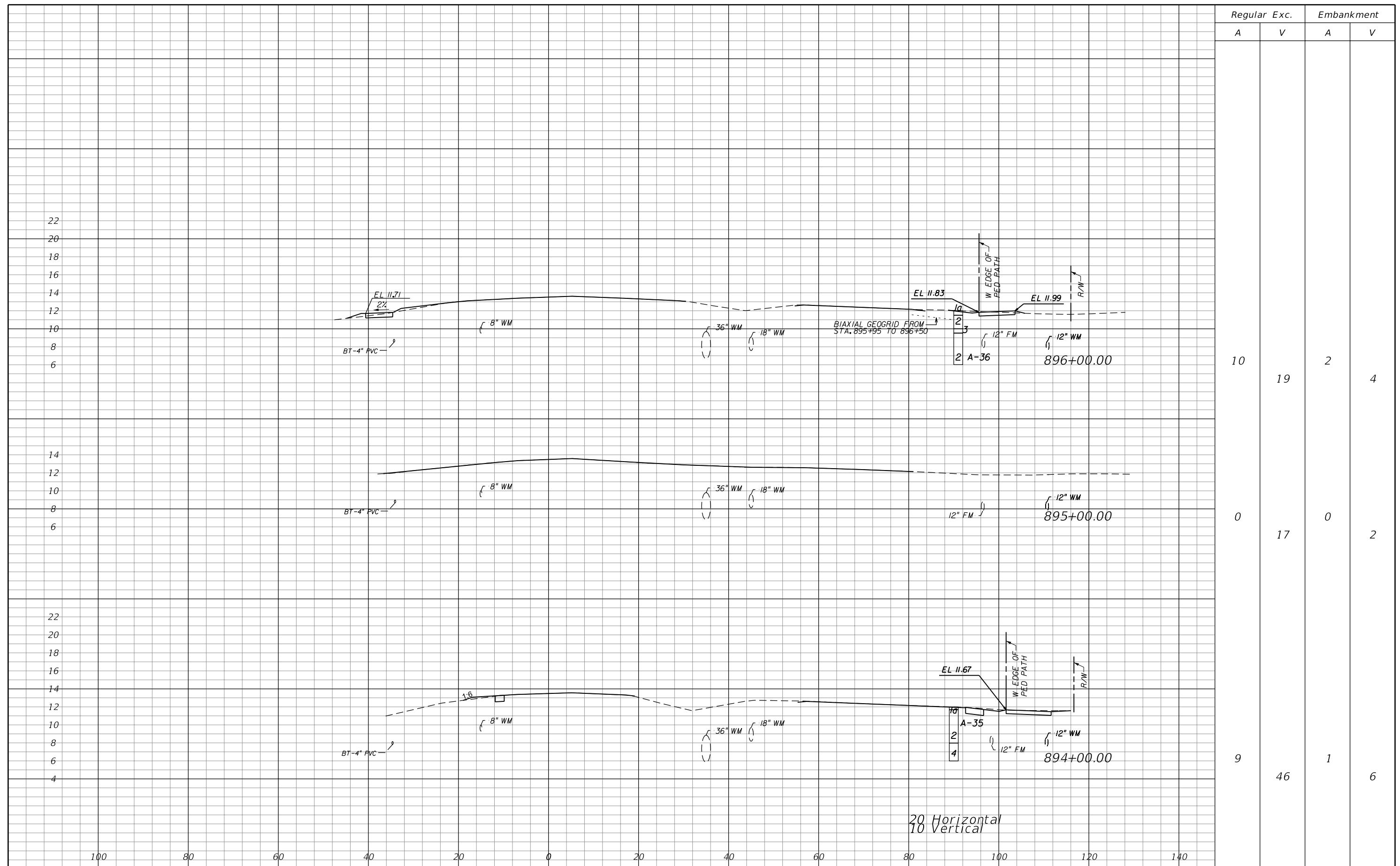
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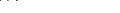
בבבליות יוניברסיטאיות ובדוחות אקדמיים נטען כי הימנעות מפומביות היא מרכיב חשוב בפתרון בעיות של פוליטיקה ציבורית.

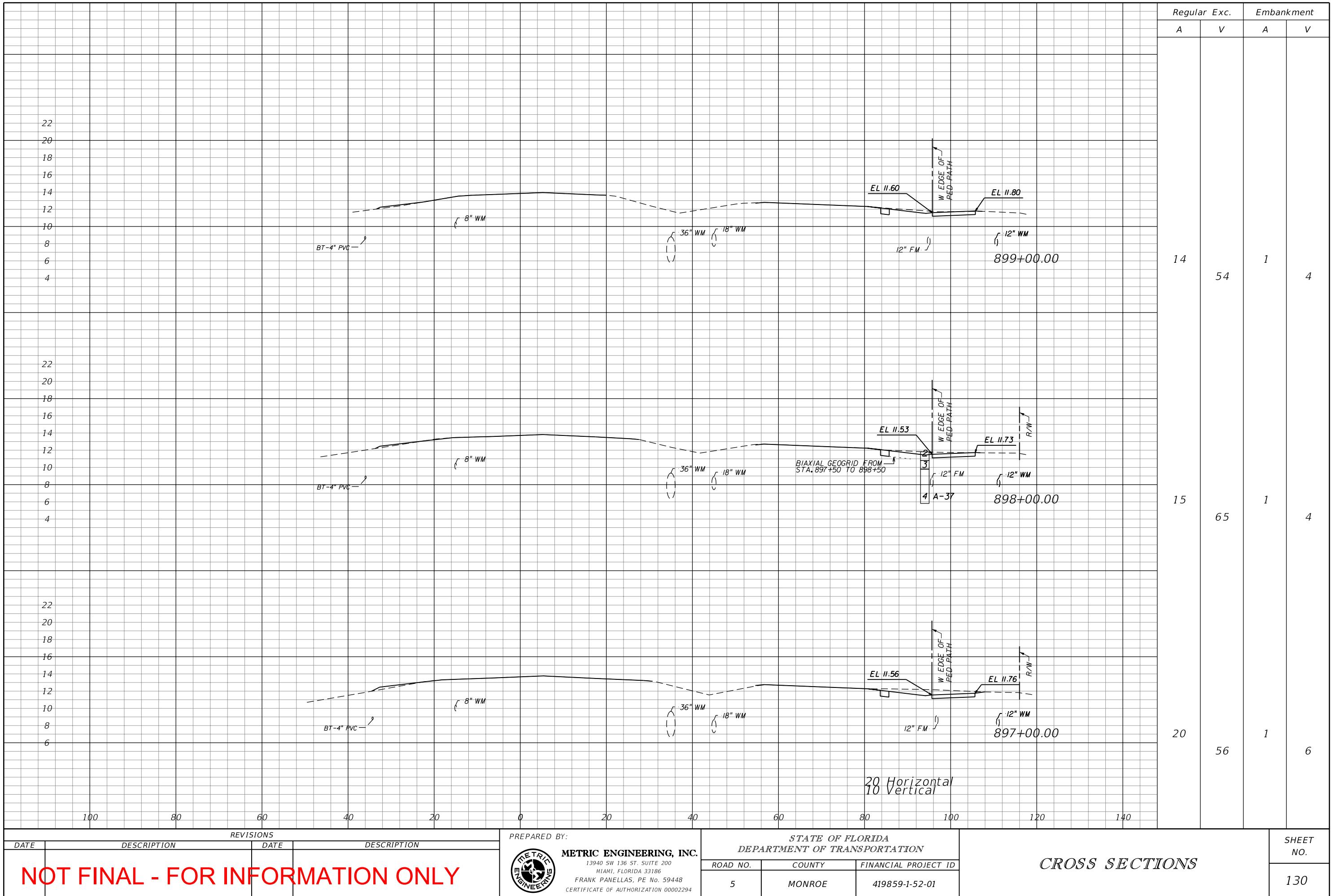
REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 127
DATE	DESCRIPTION	DATE	DESCRIPTION				
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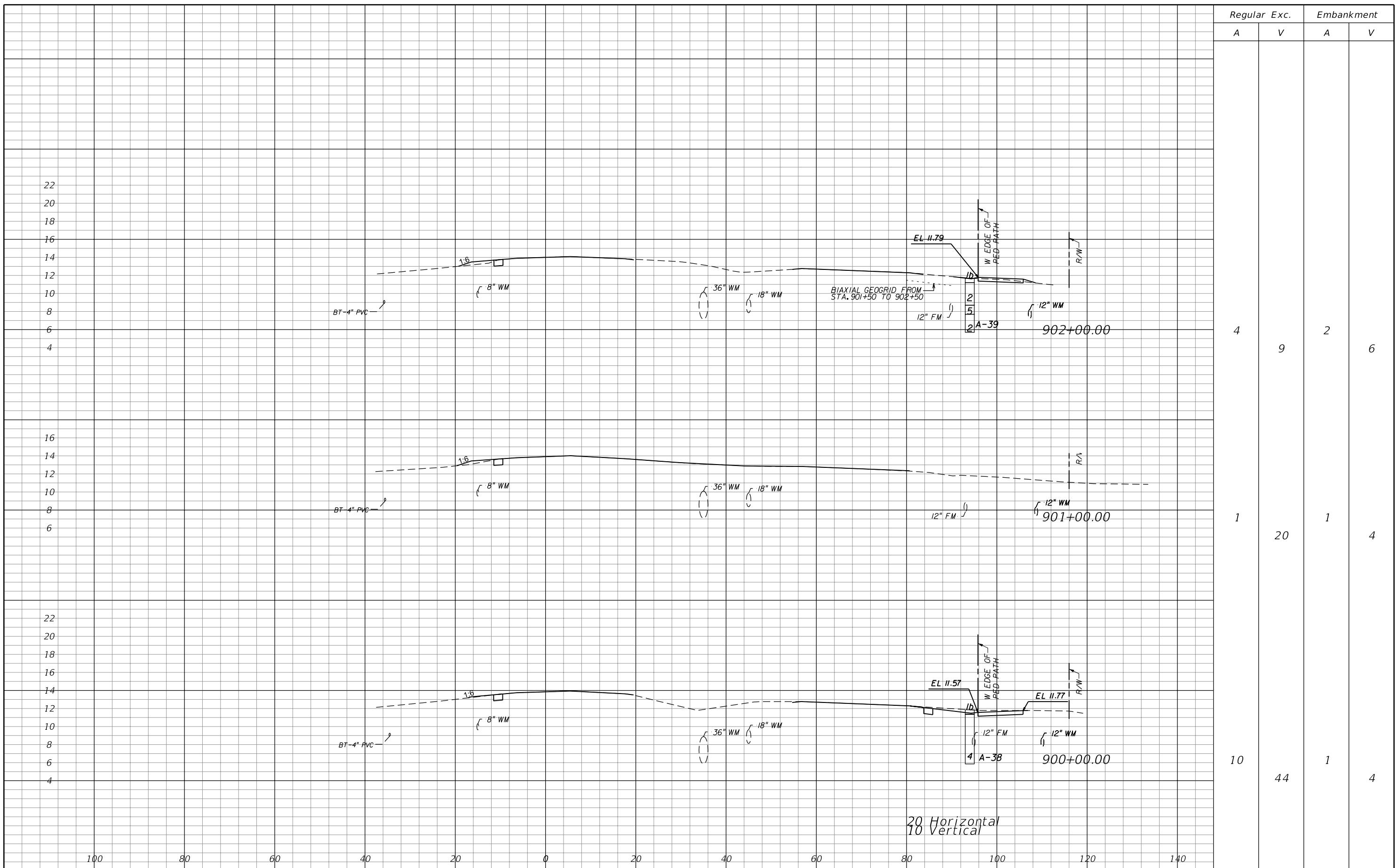




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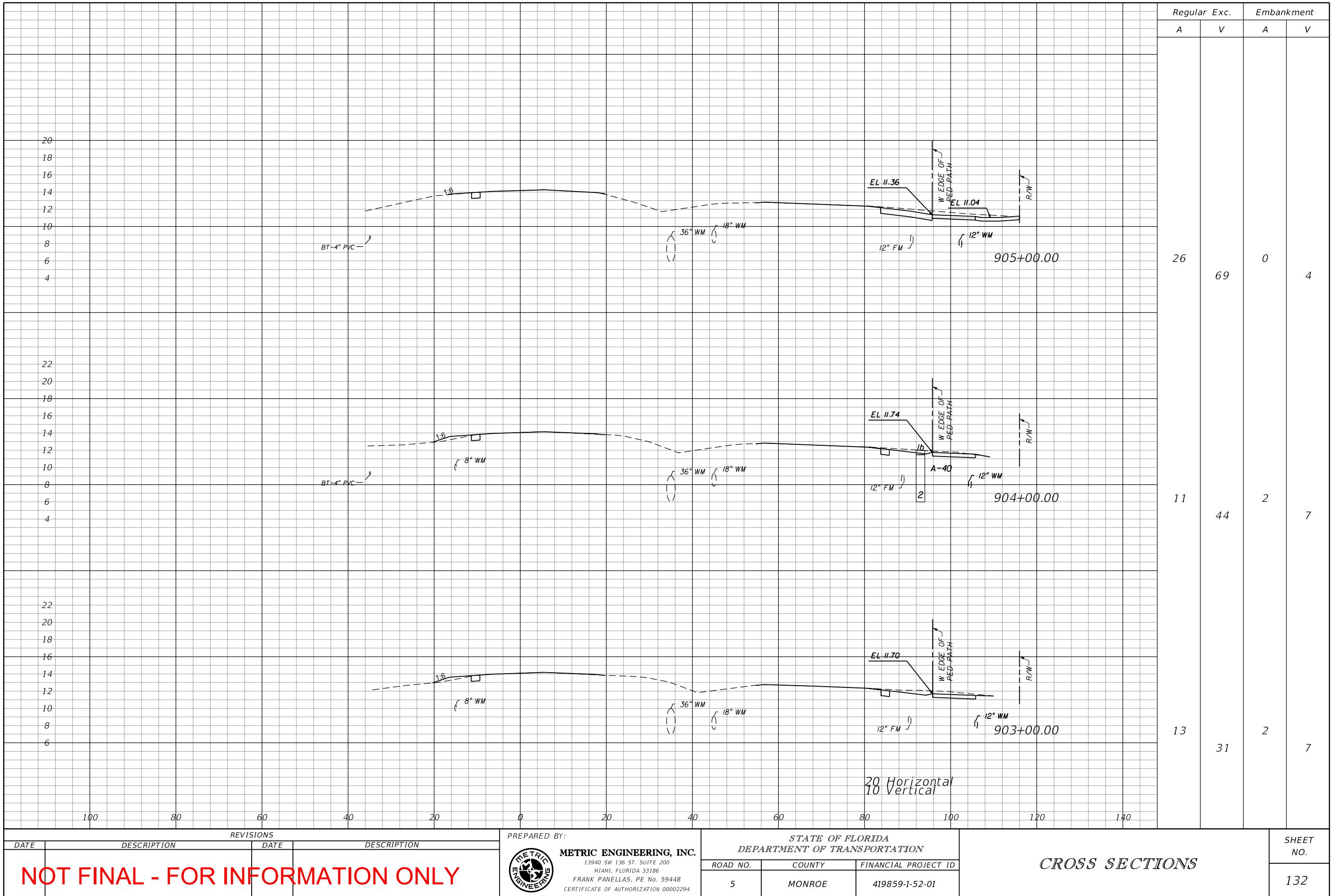
REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 129
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY			5	MONROE	419859-1-52-01	

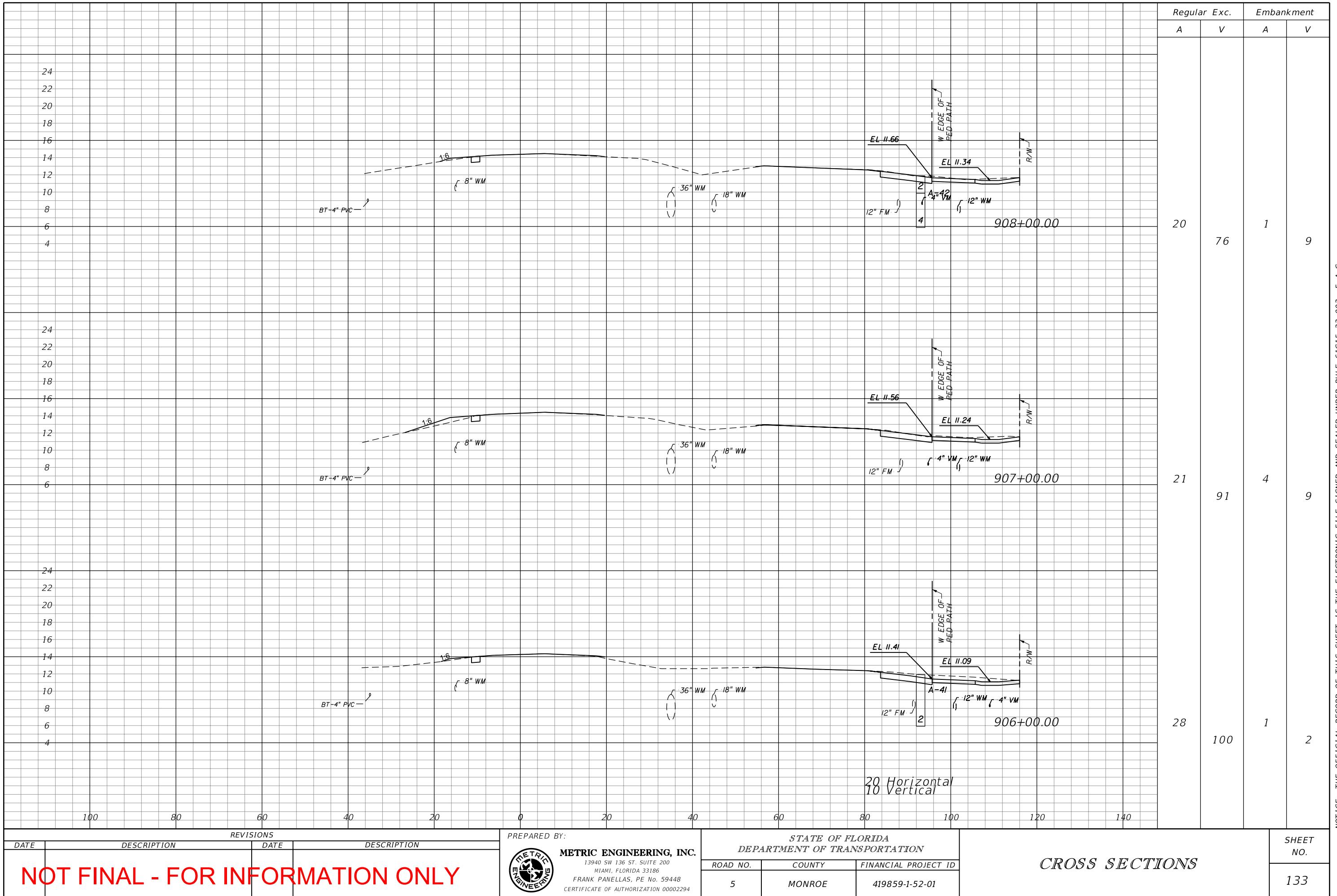


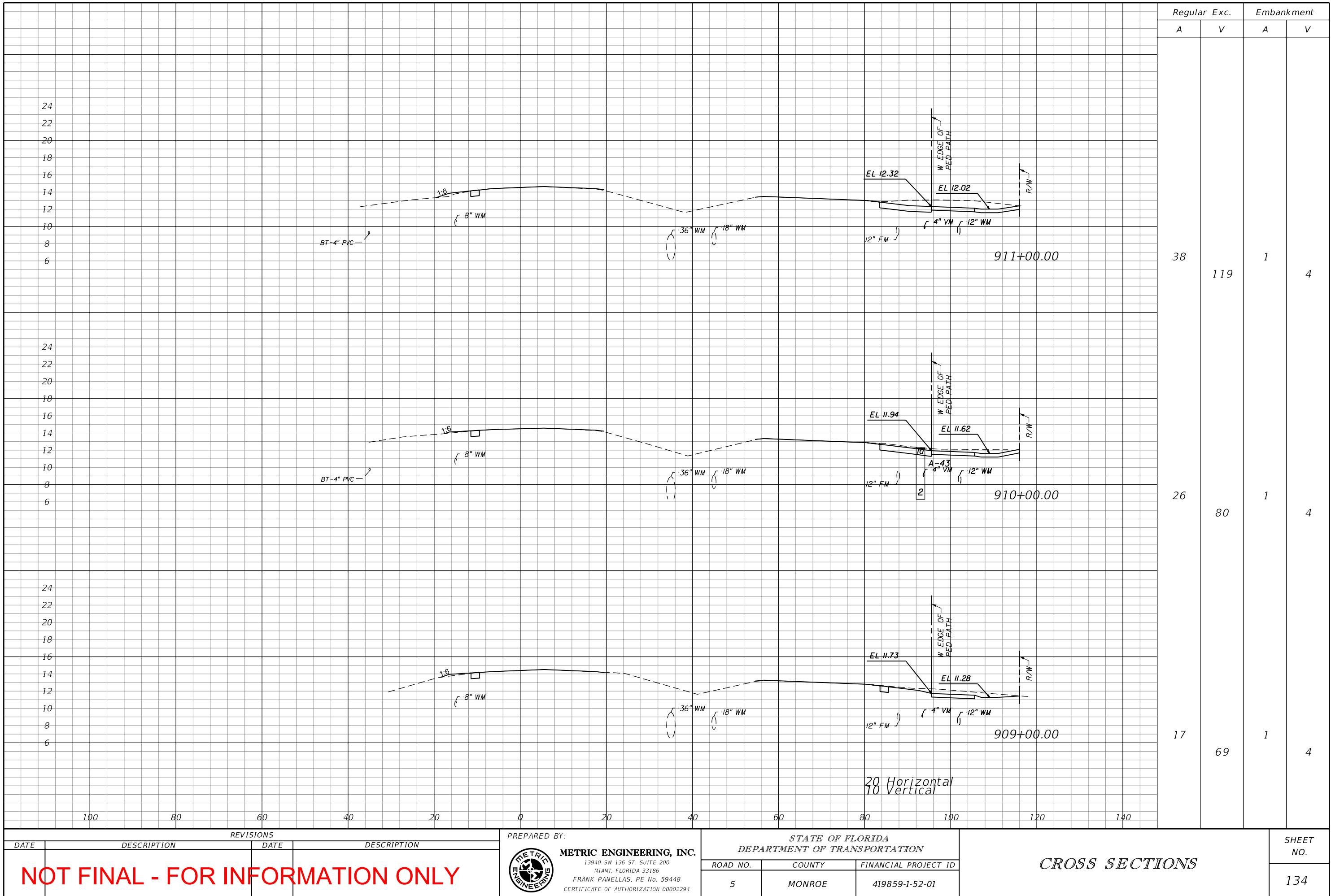


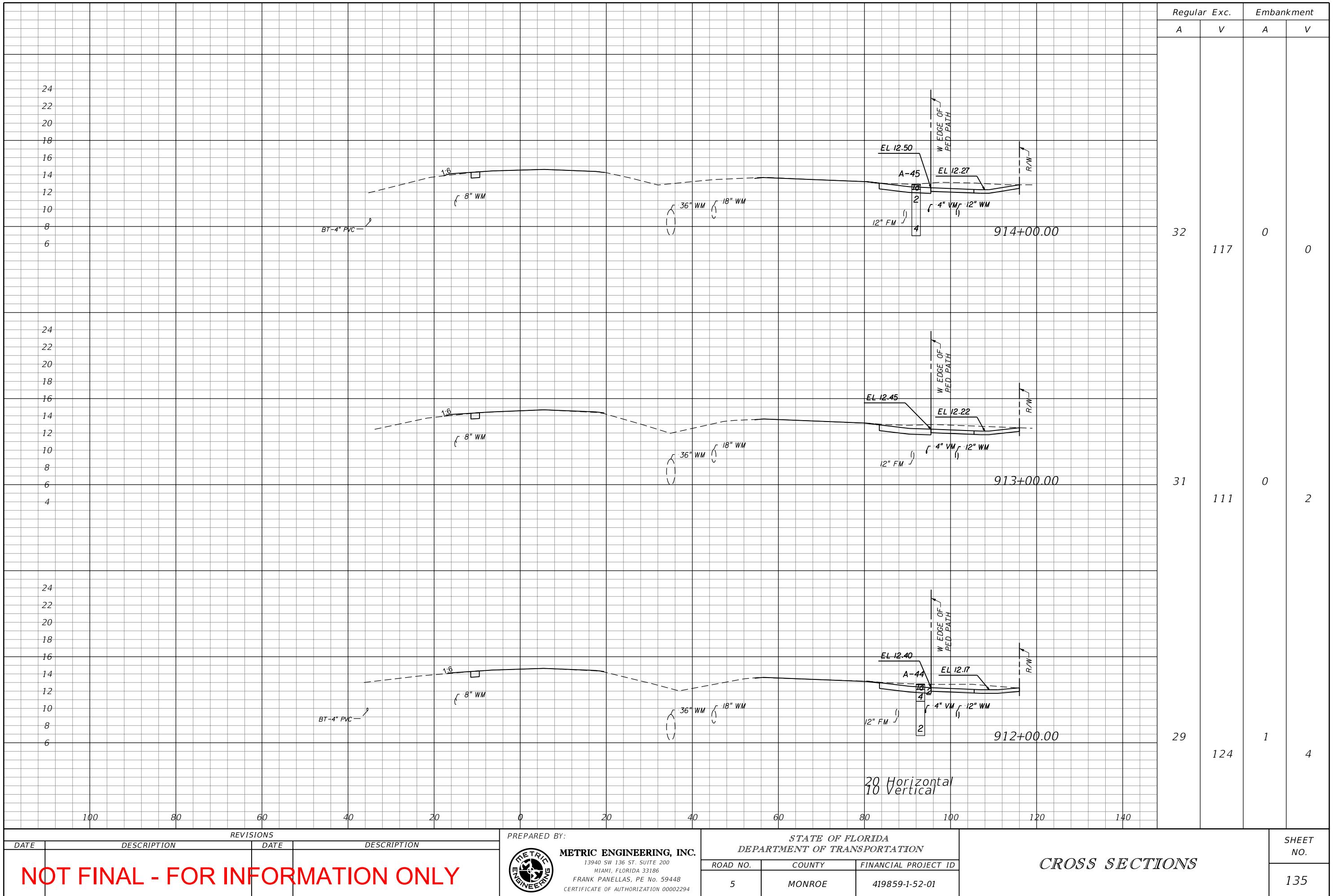
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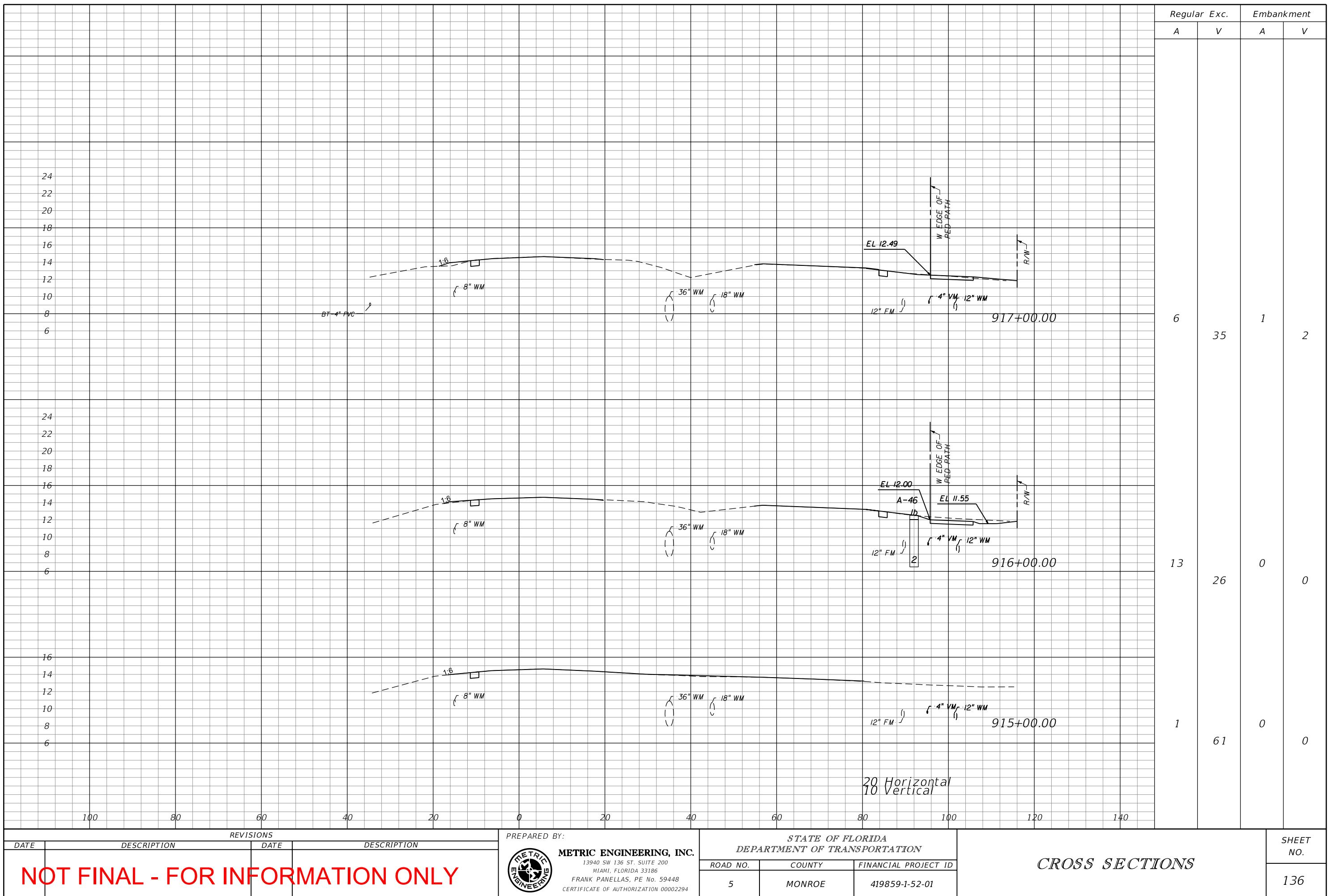
REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 131
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY			5	MONROE	419859-1-52-01	

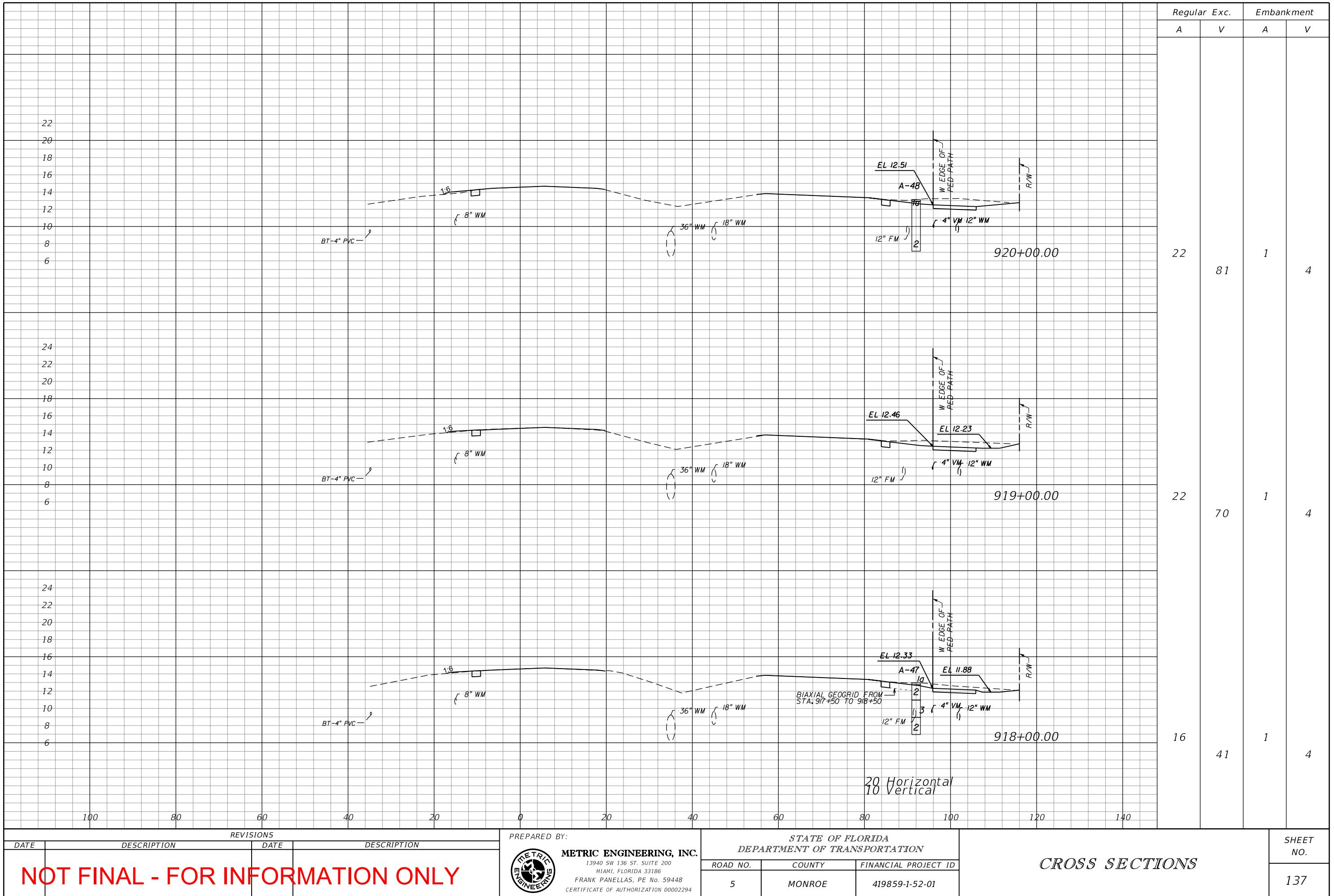












PREPARED BY:
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

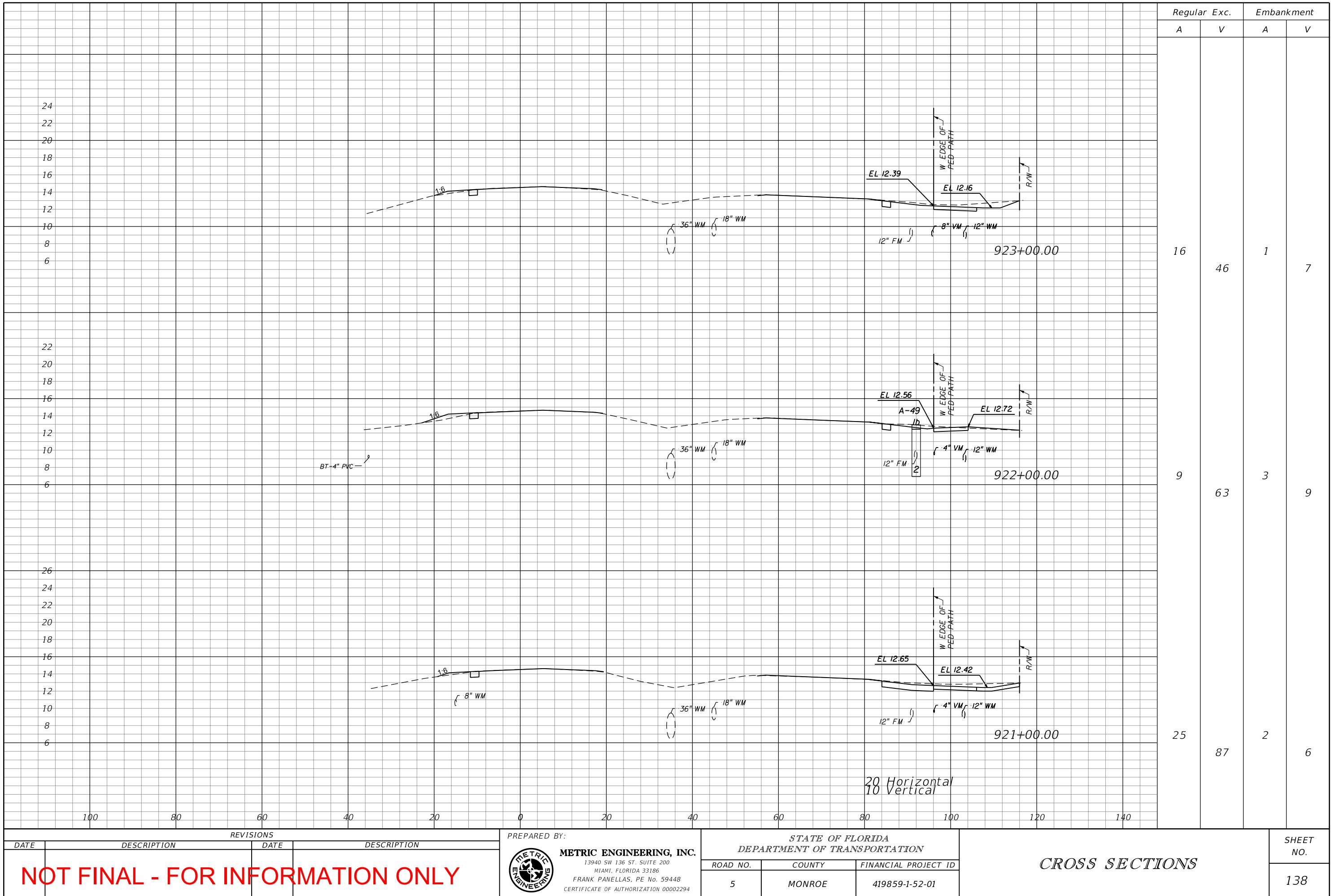
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
5 MONROE 419859-1-52-01

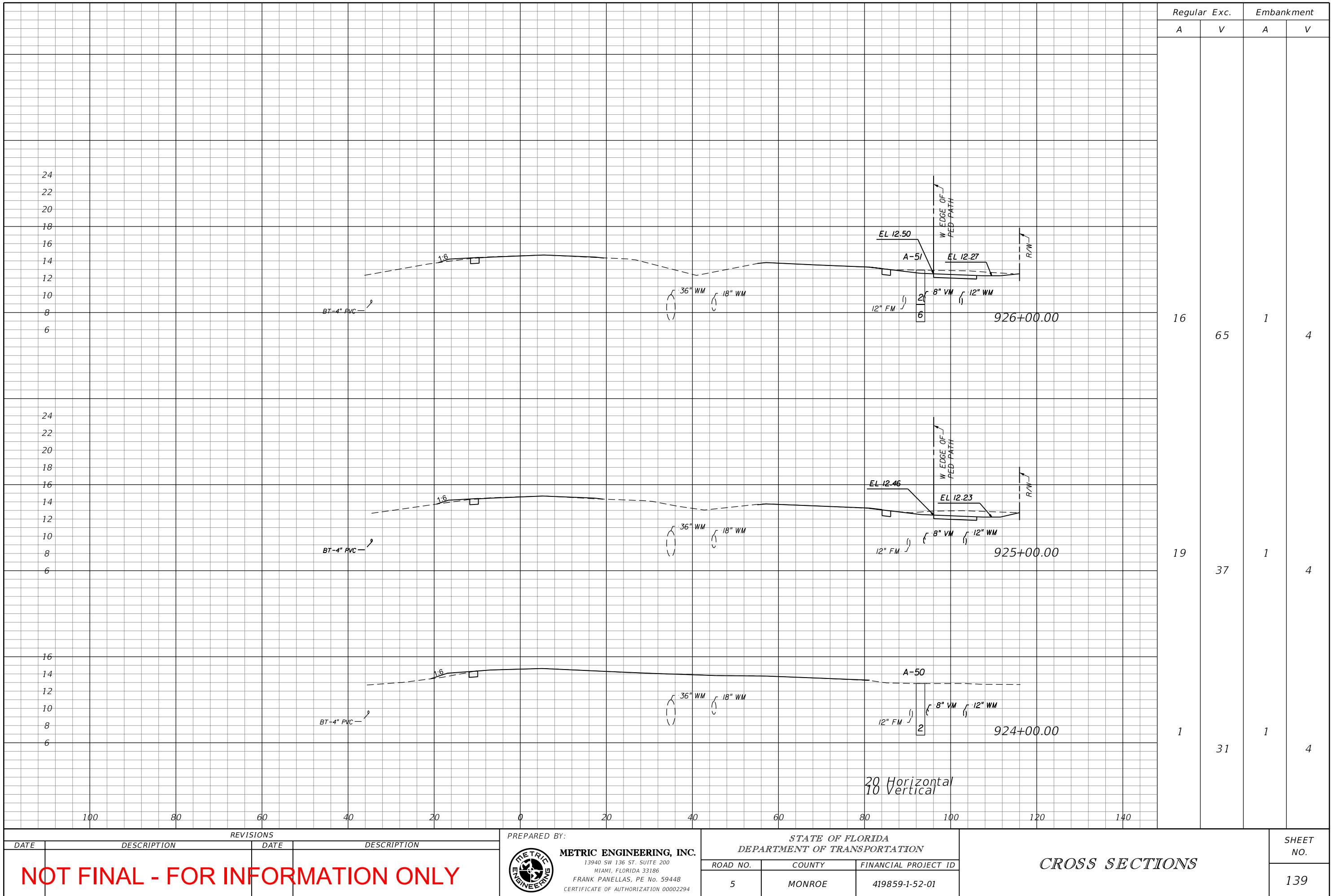
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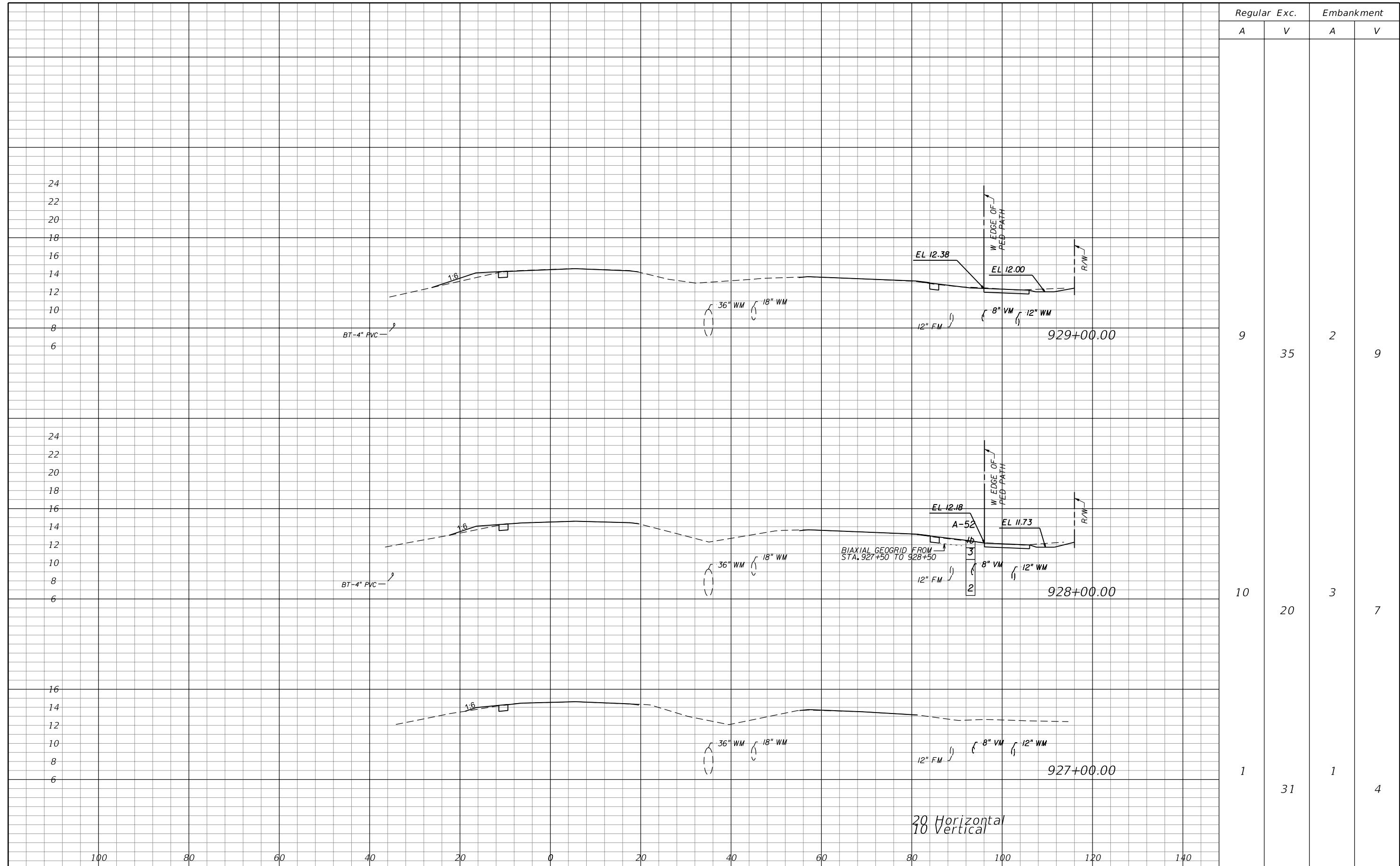
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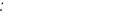
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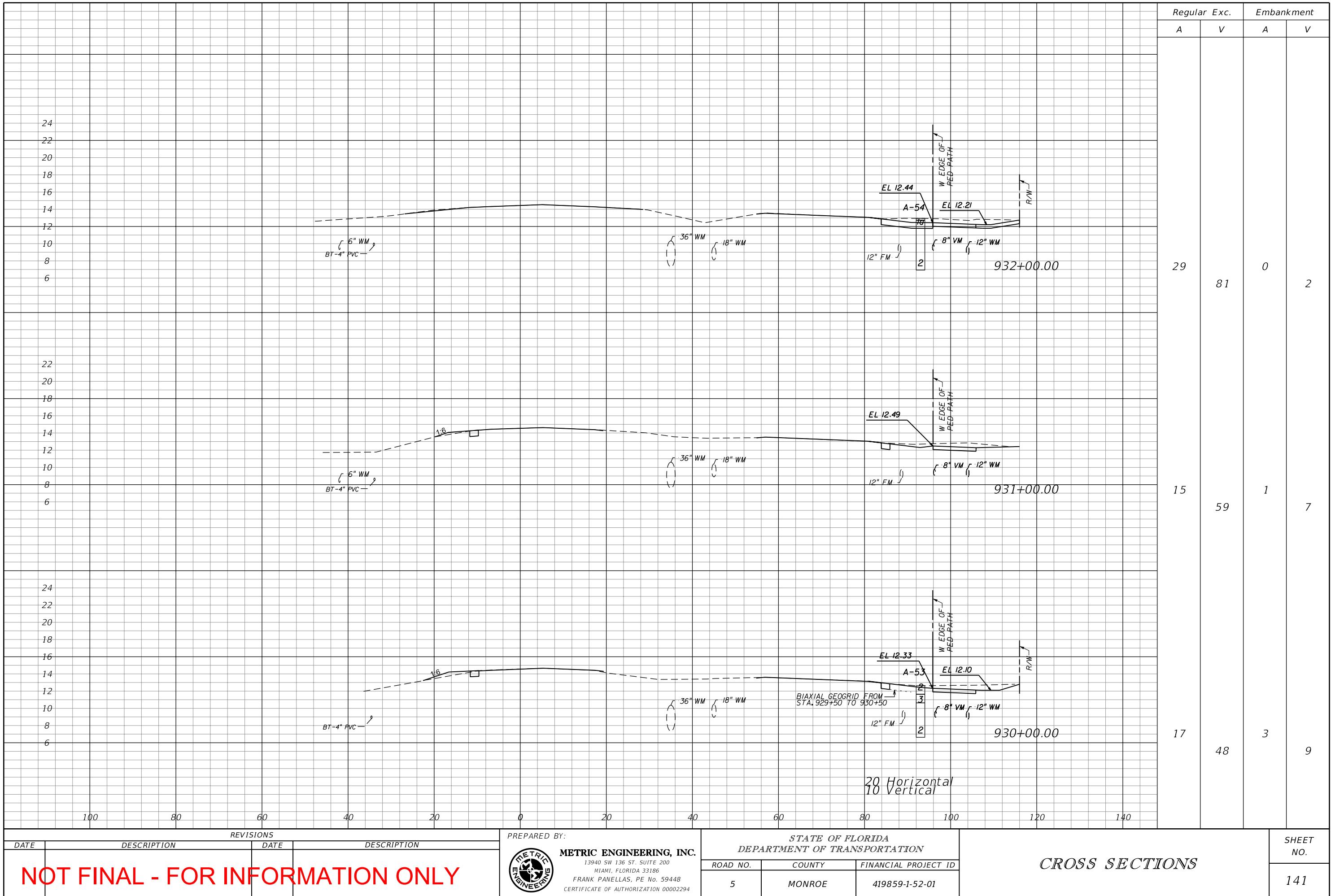


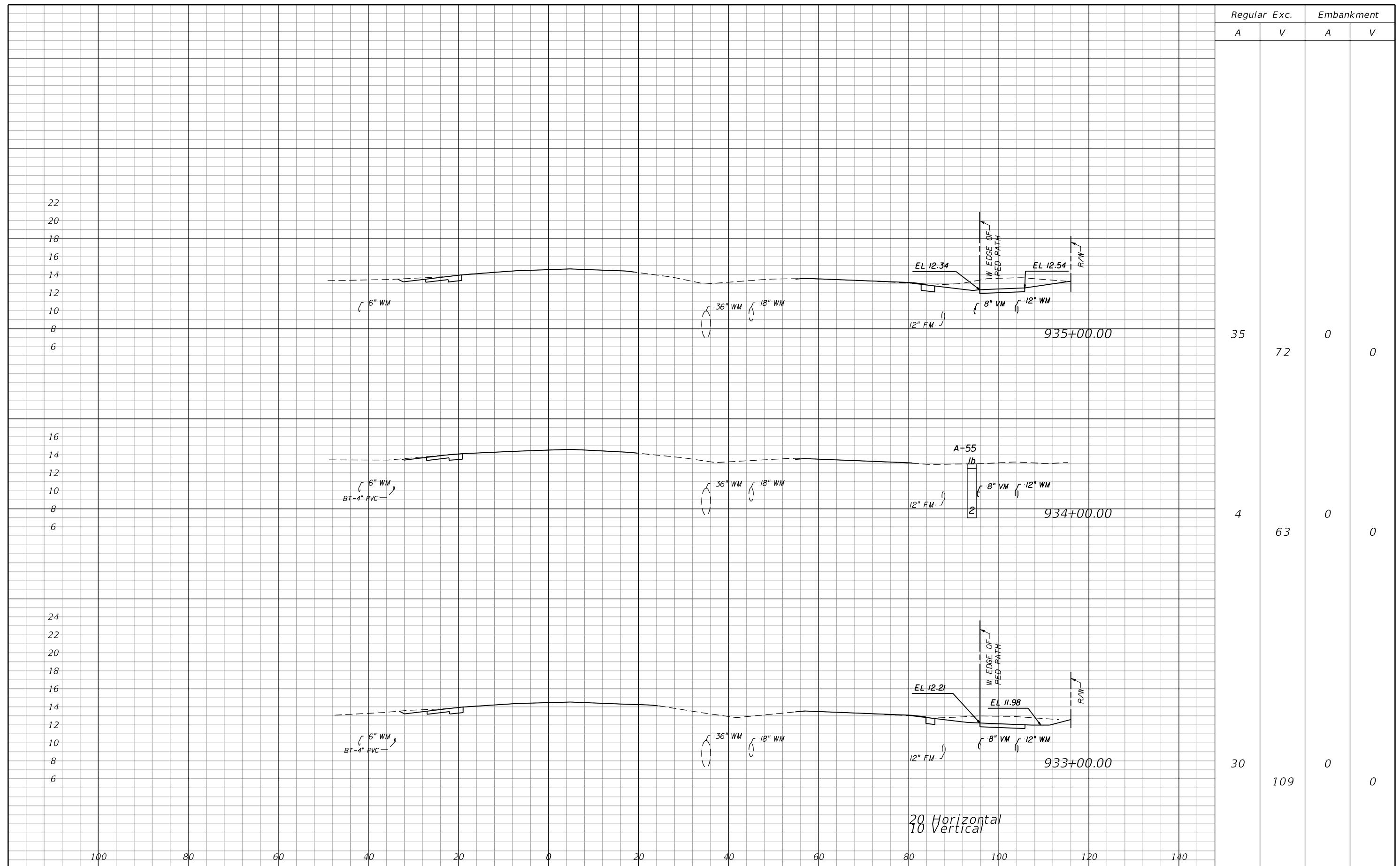




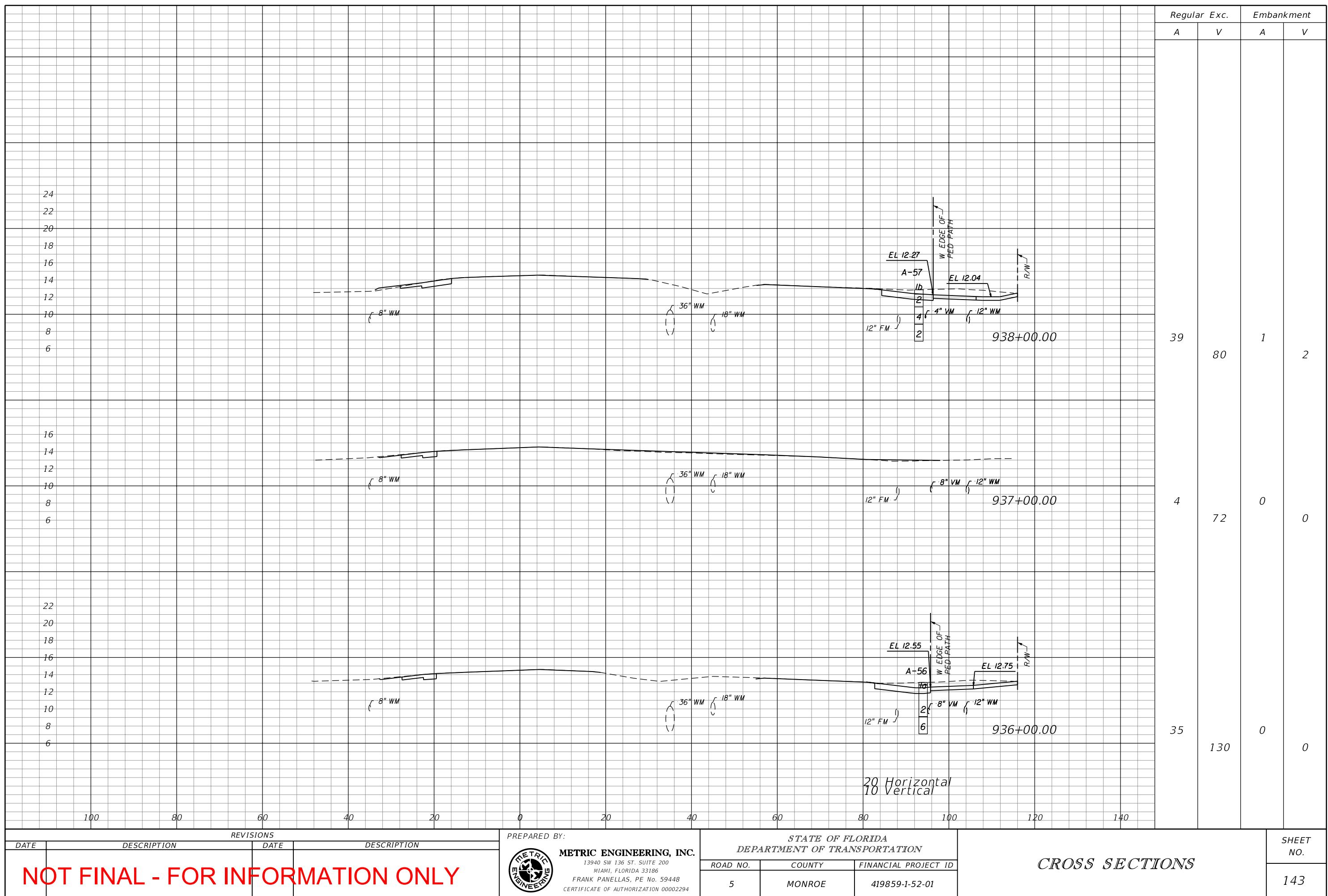
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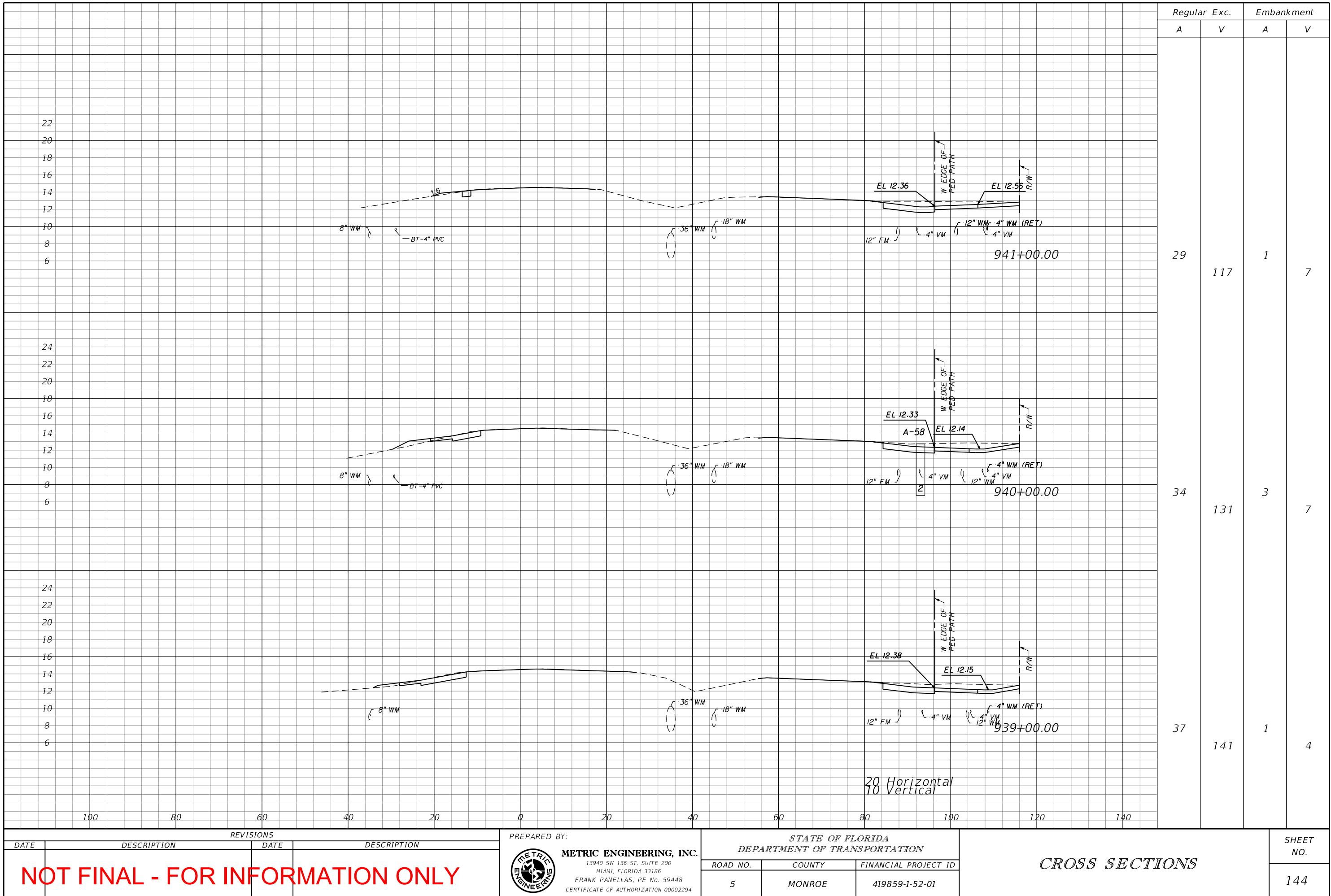
REVISIONS				PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE NO. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 140
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY				ROAD NO.	COUNTY	FINANCIAL PROJECT ID
					5	MONROE	419859-1-52-01

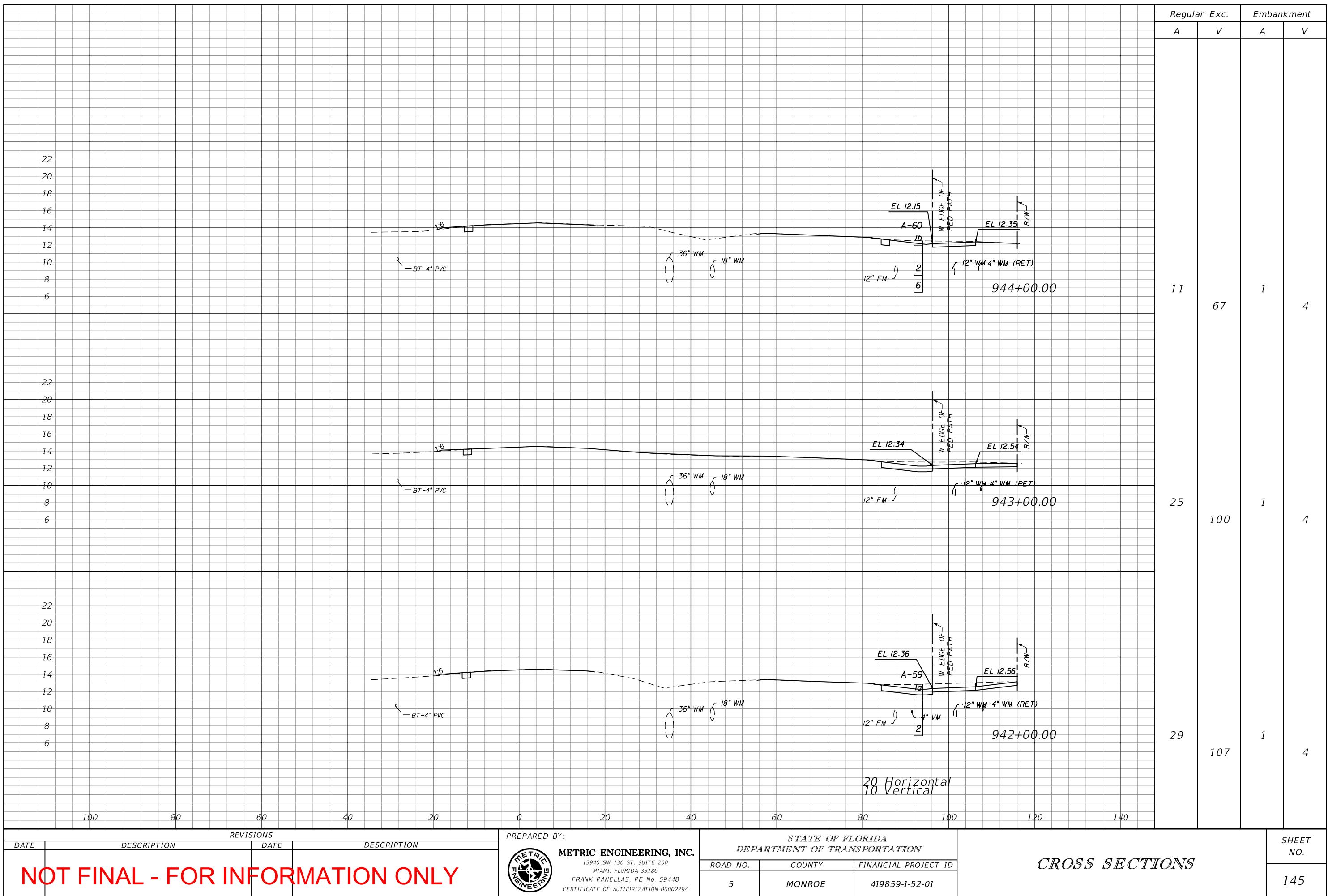




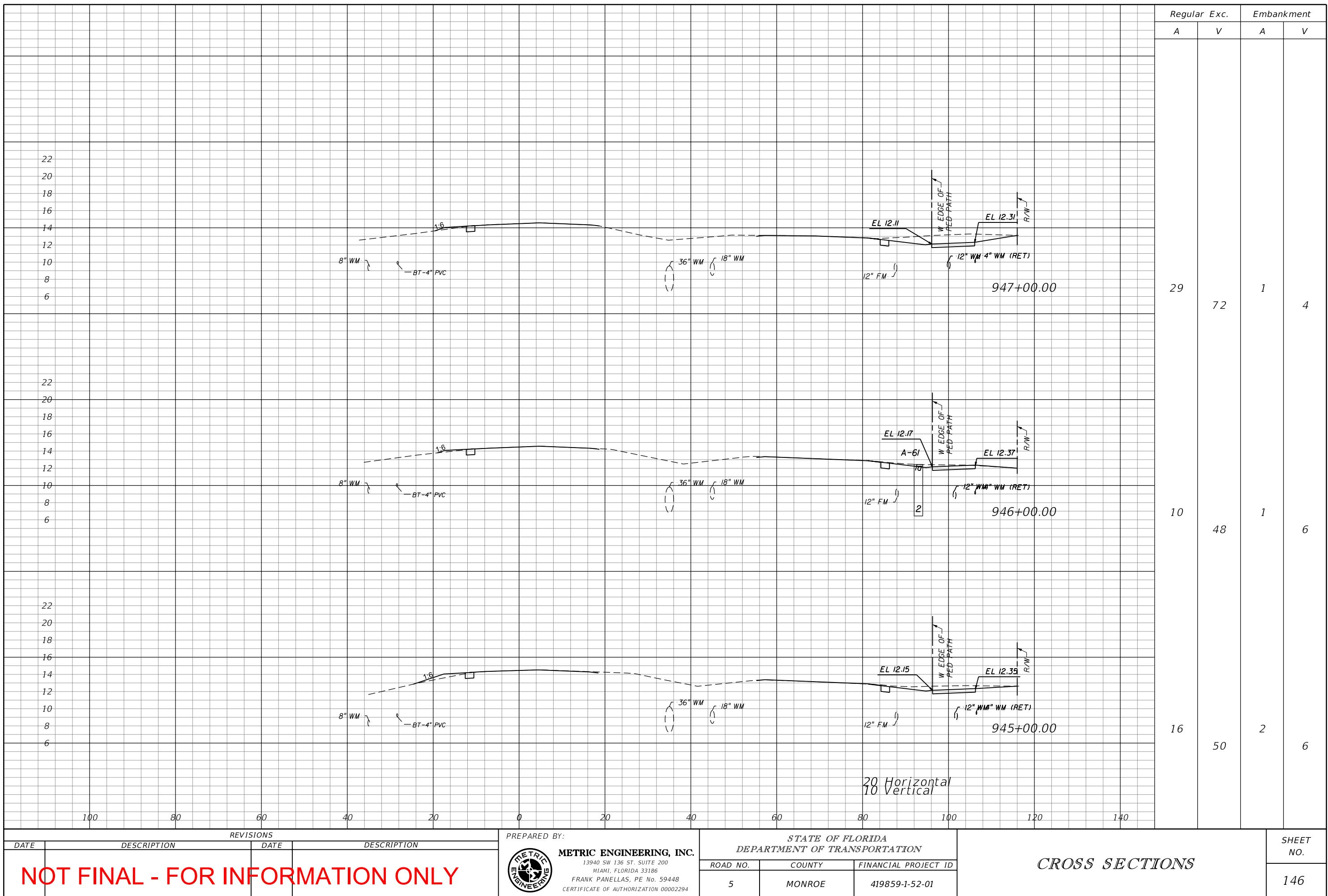
REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 142
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY			5	MONROE	419859-1-52-01	



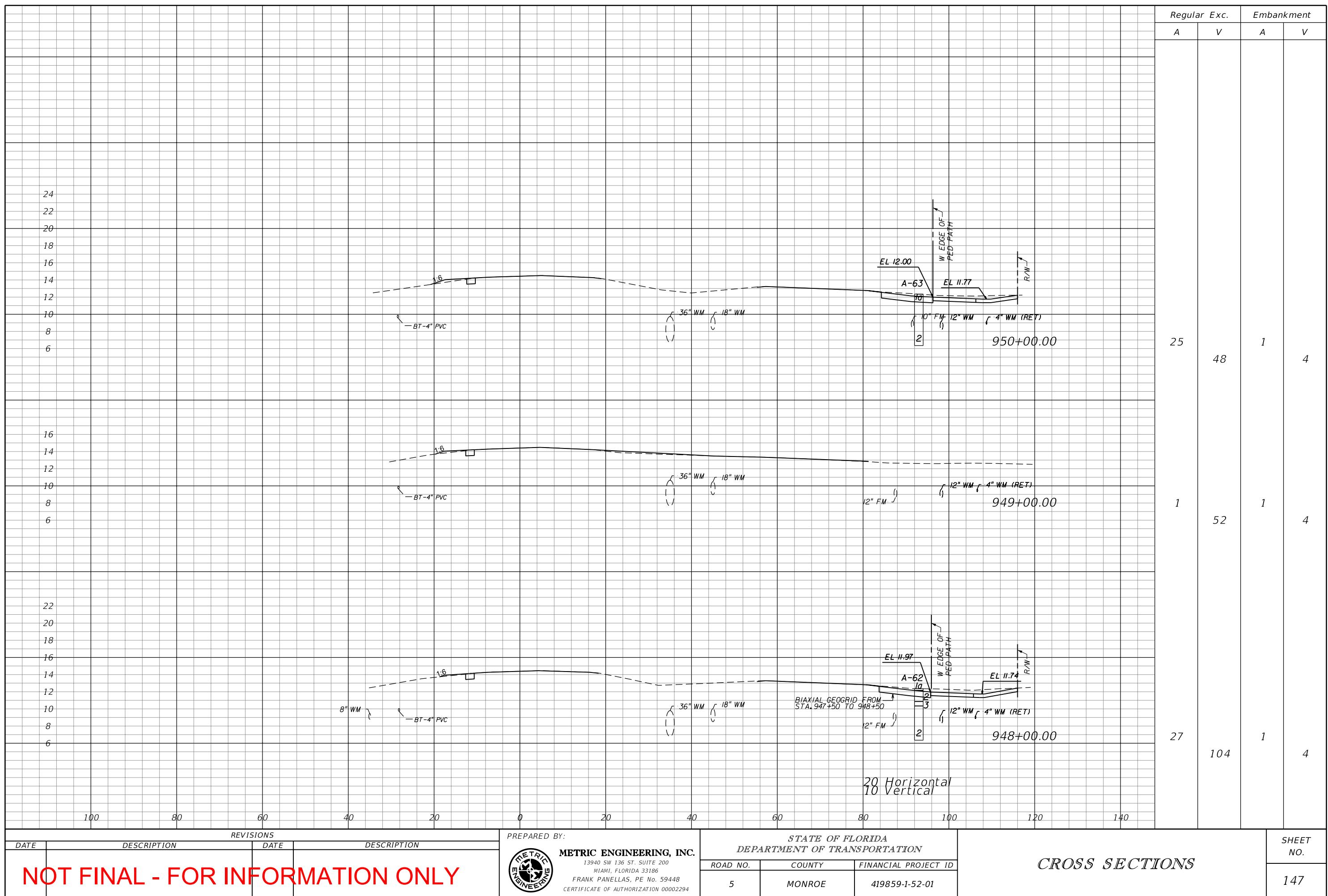


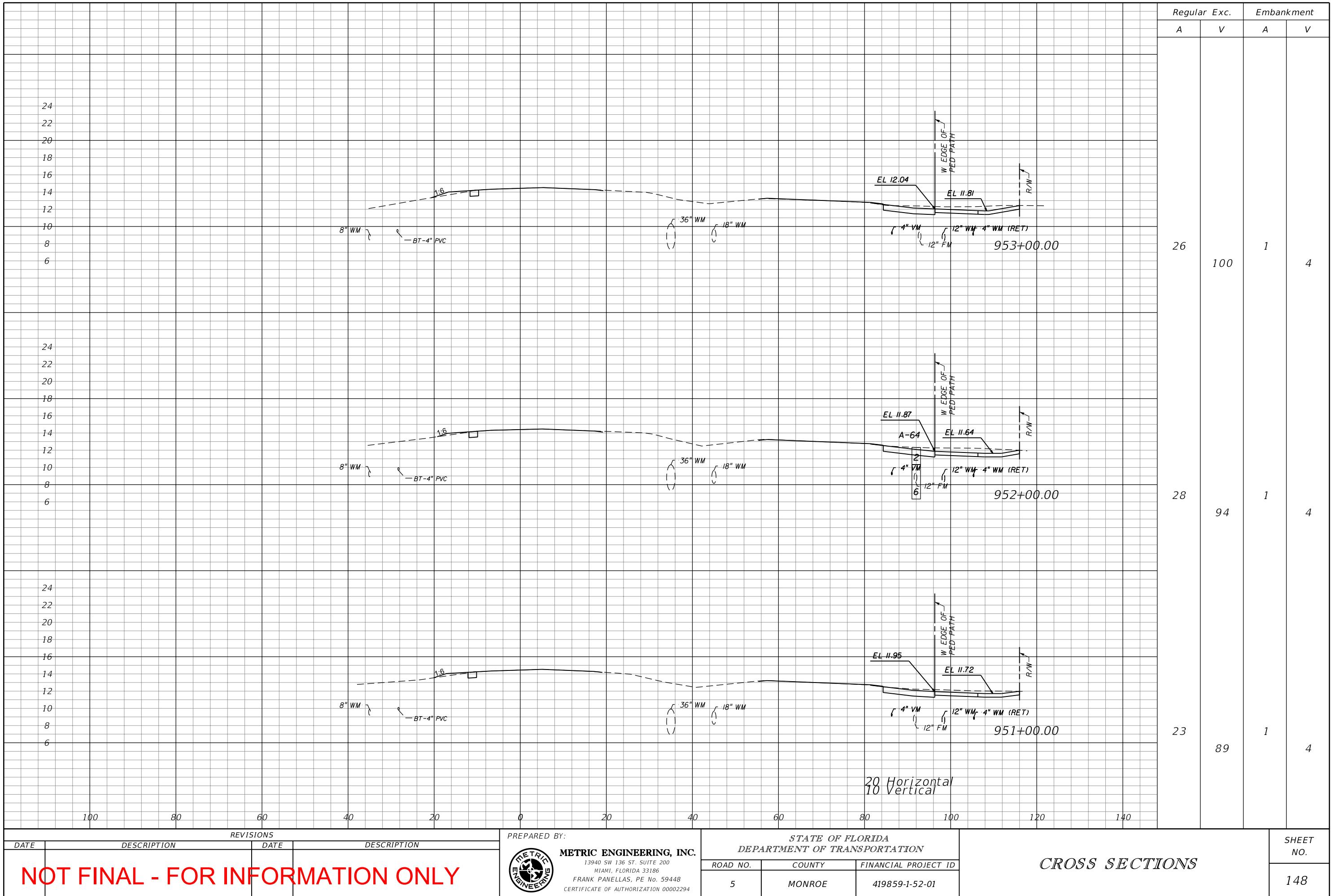


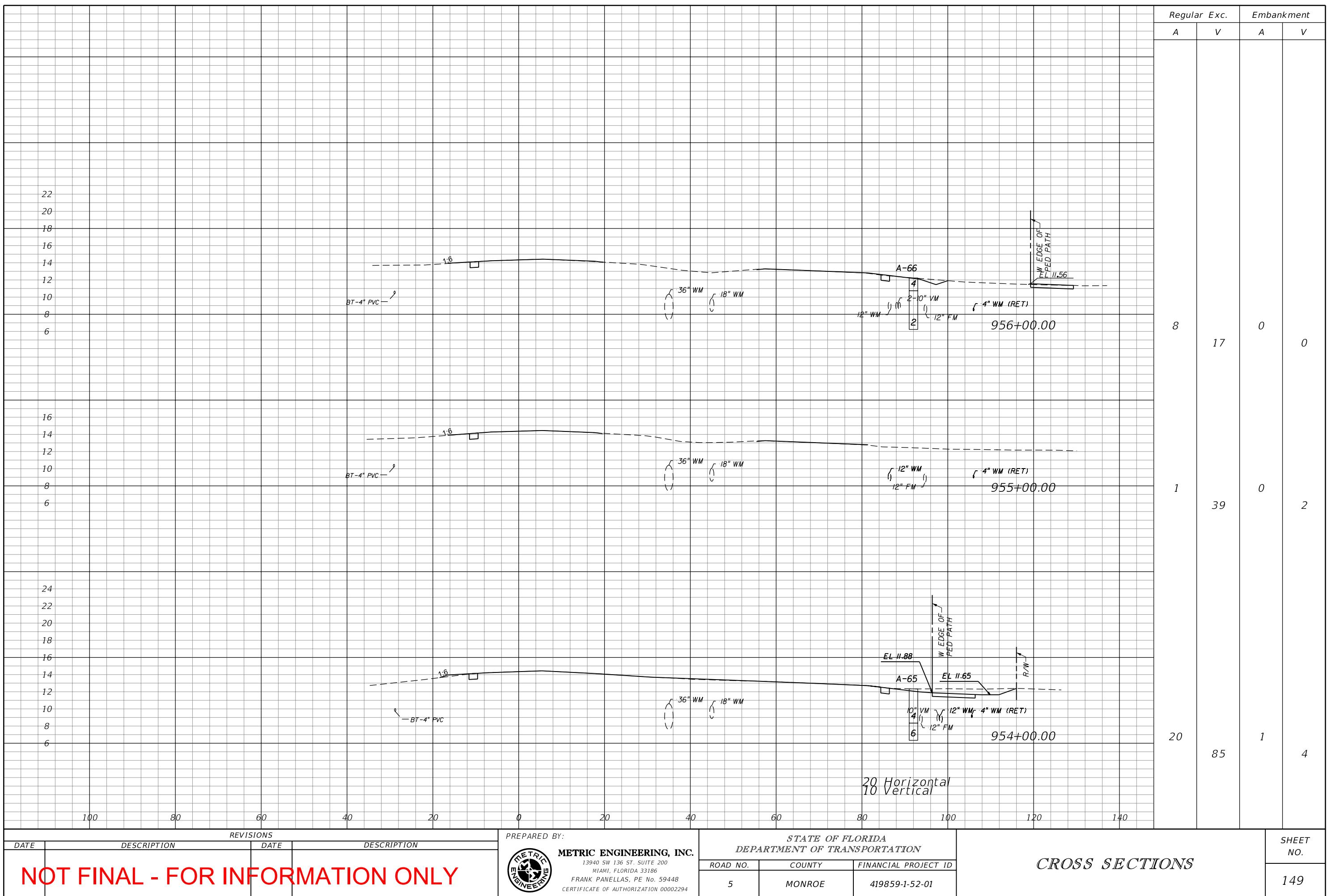
METRIC
ENGINEERING
INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

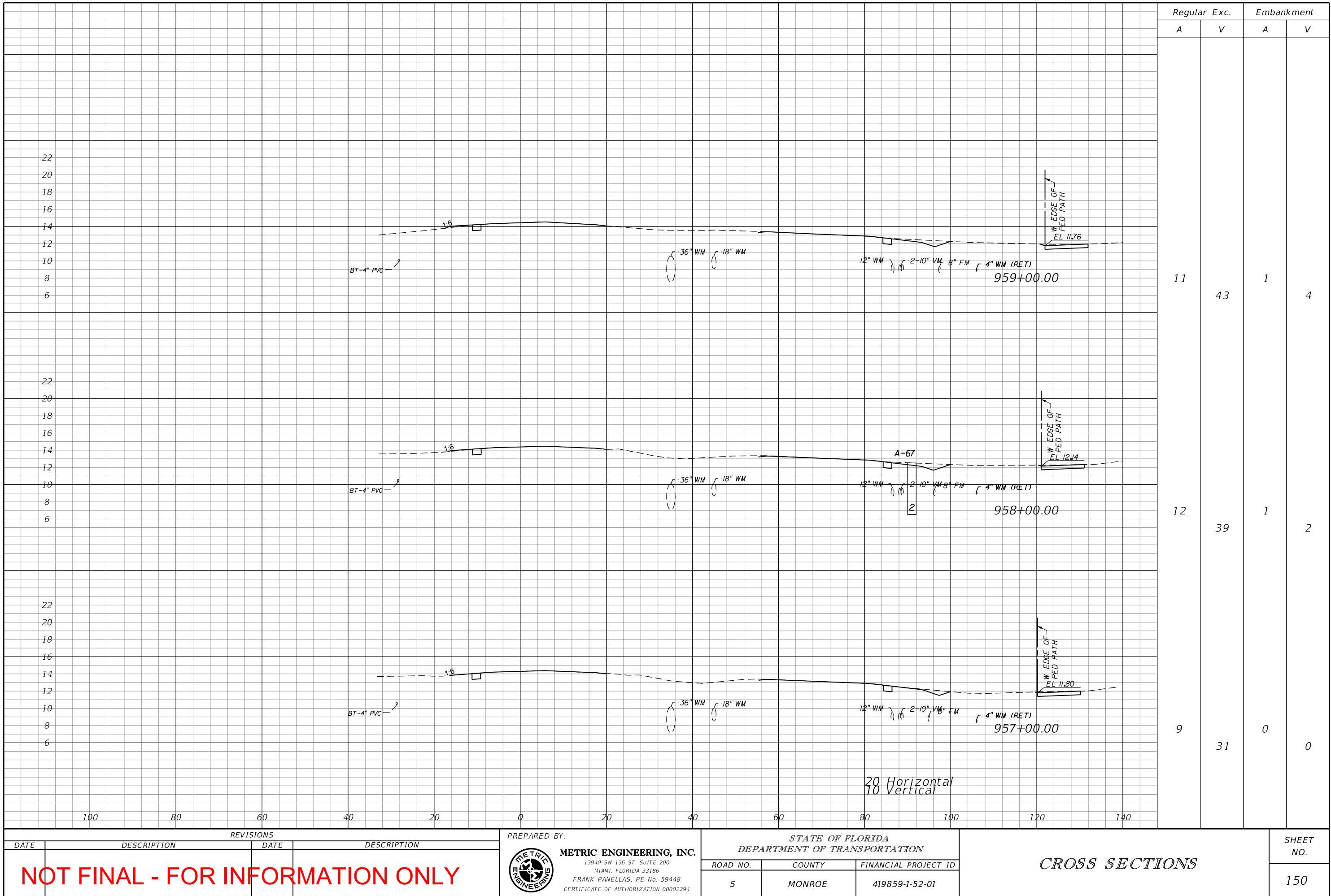


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FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

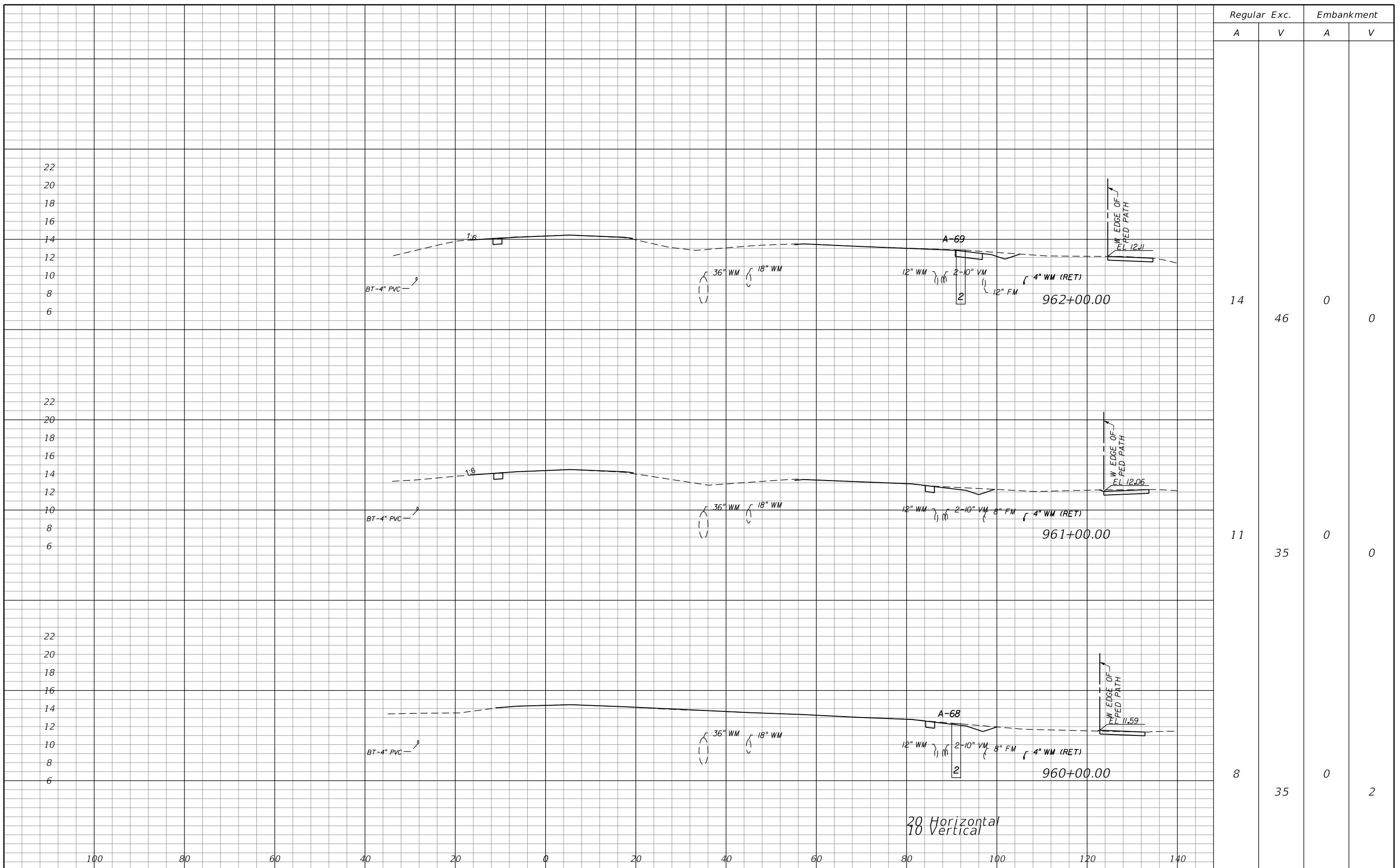




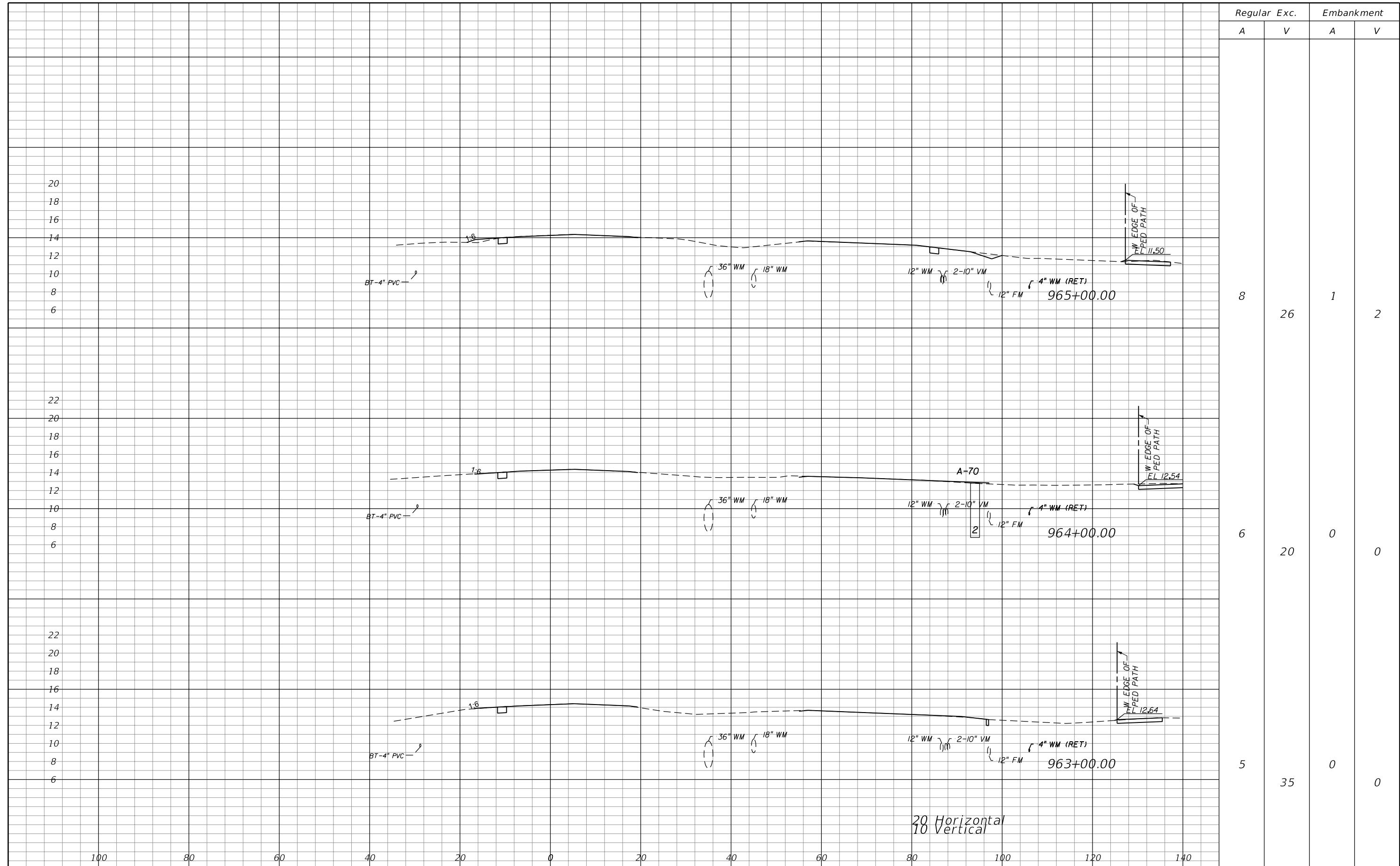




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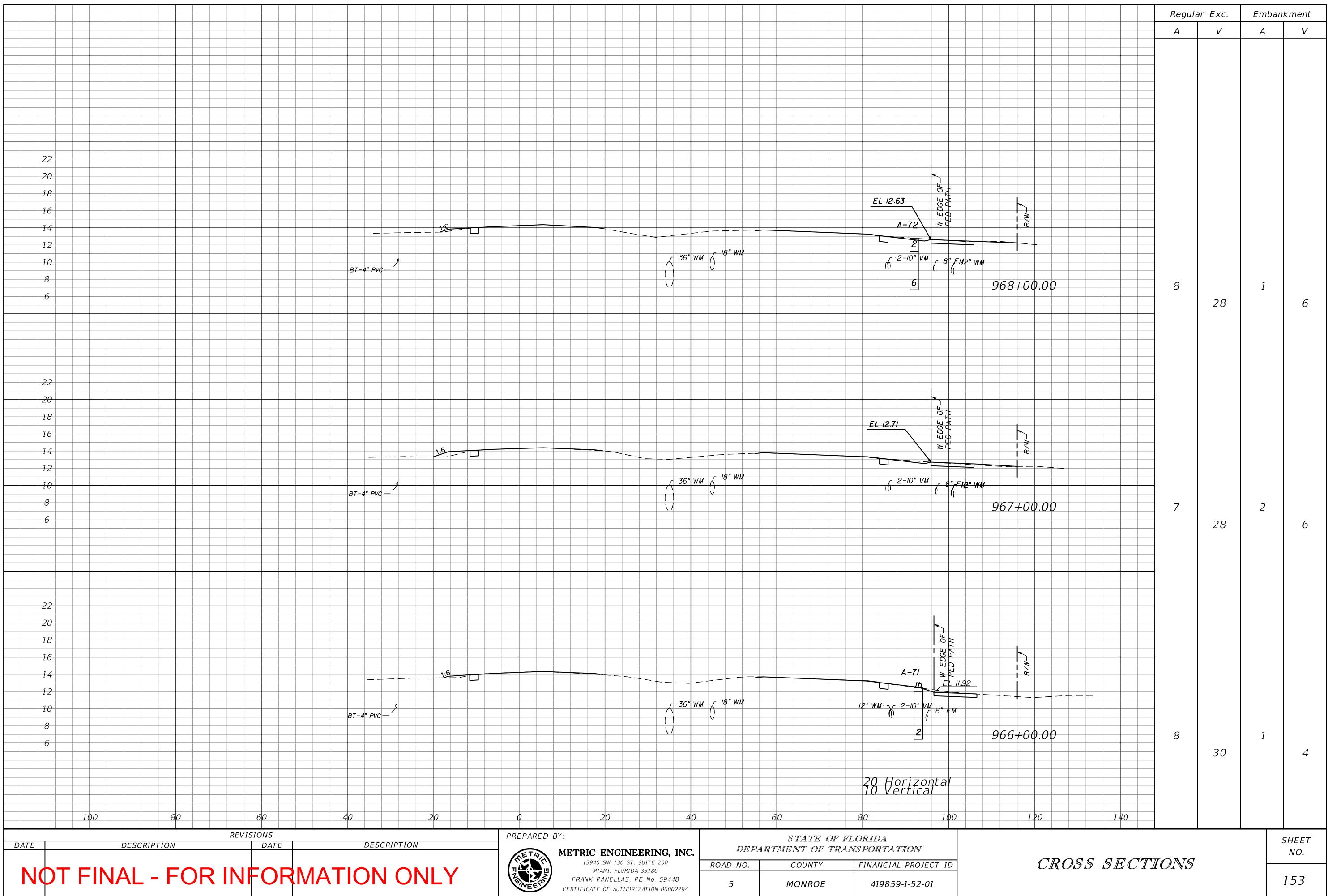


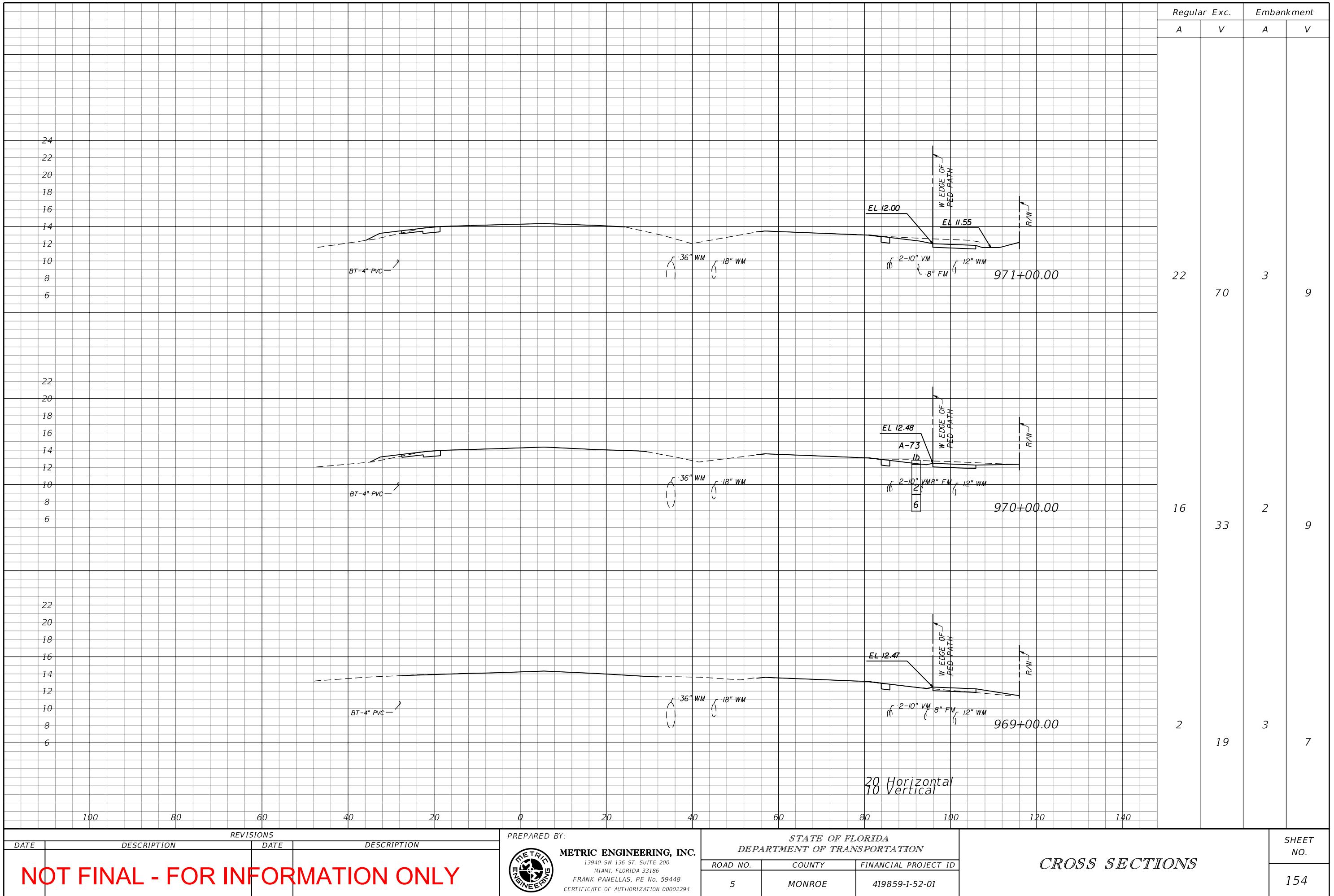
REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 151
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY			5	MONROE	419859-1-52-01	



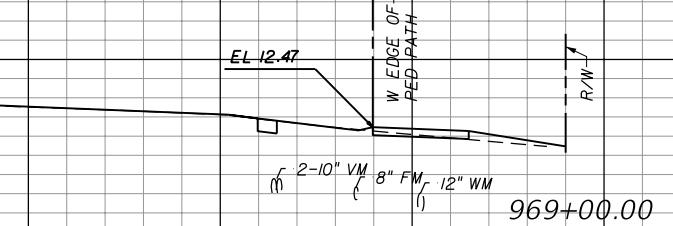
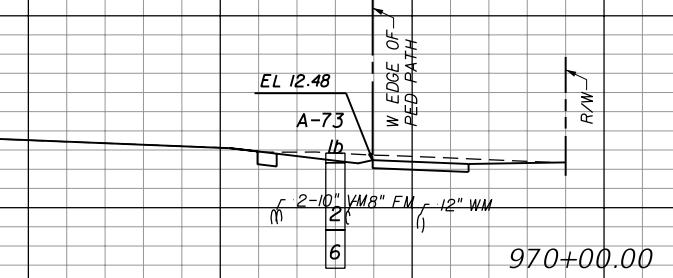
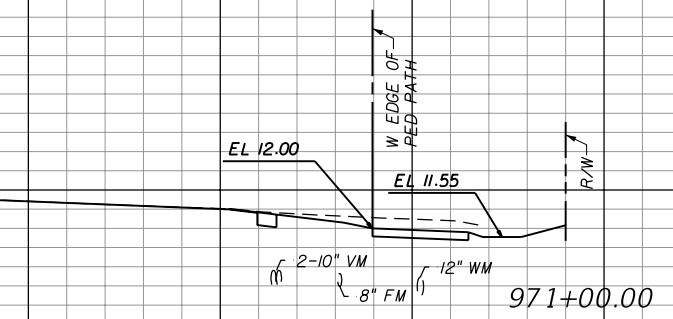
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
NOT FINAL - FOR INFORMATION ONLY					5	MONROE	419859-1-52-01		

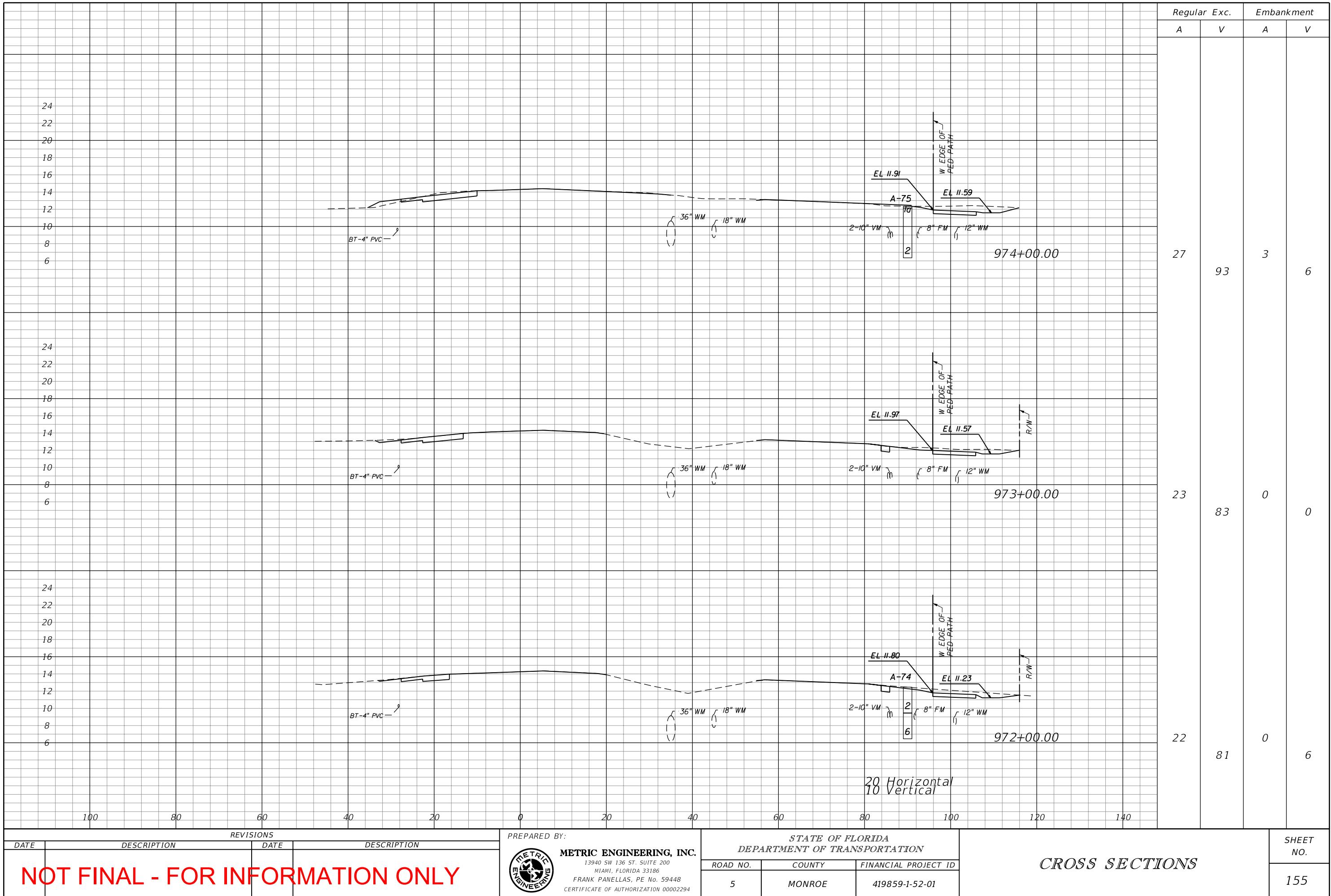


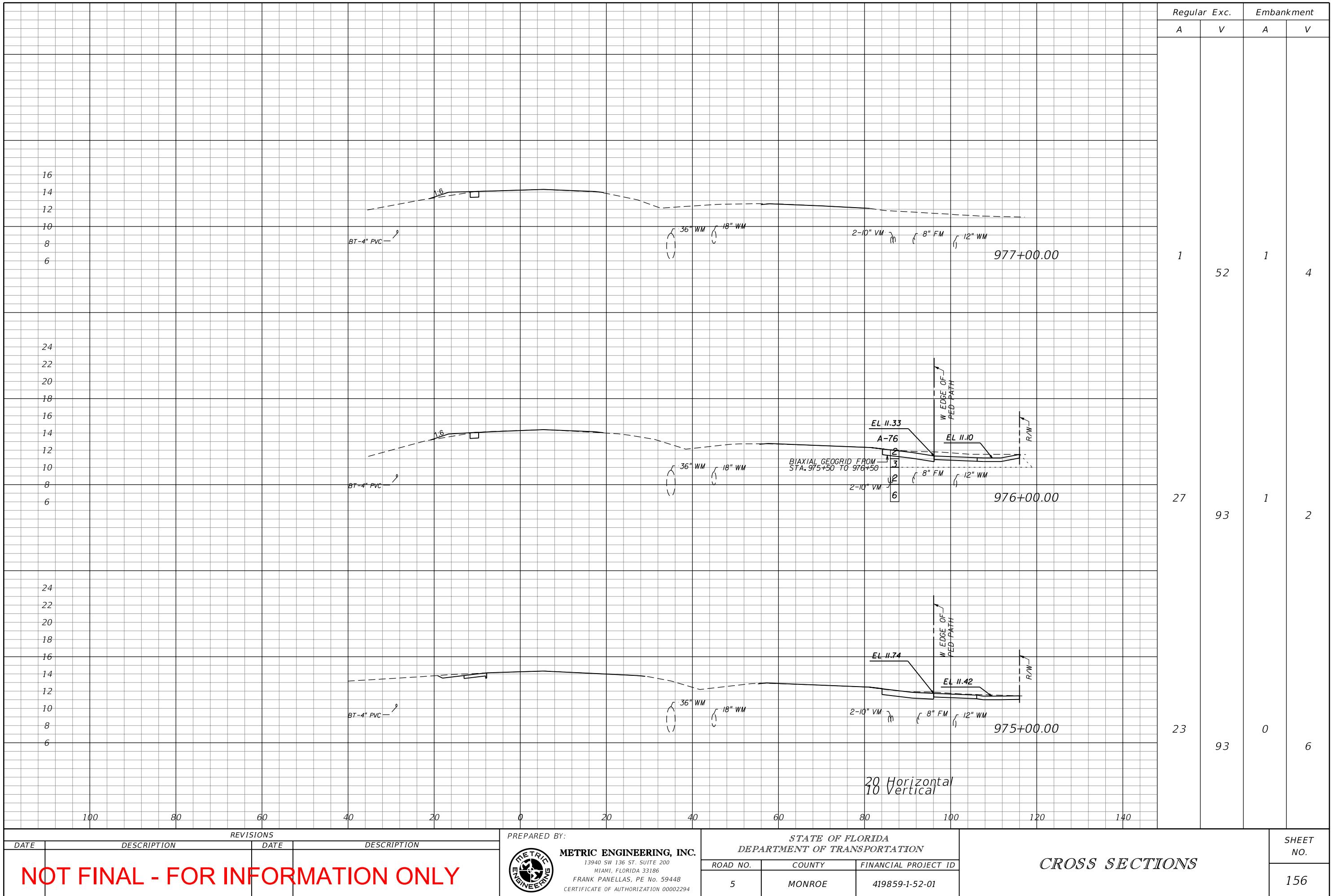


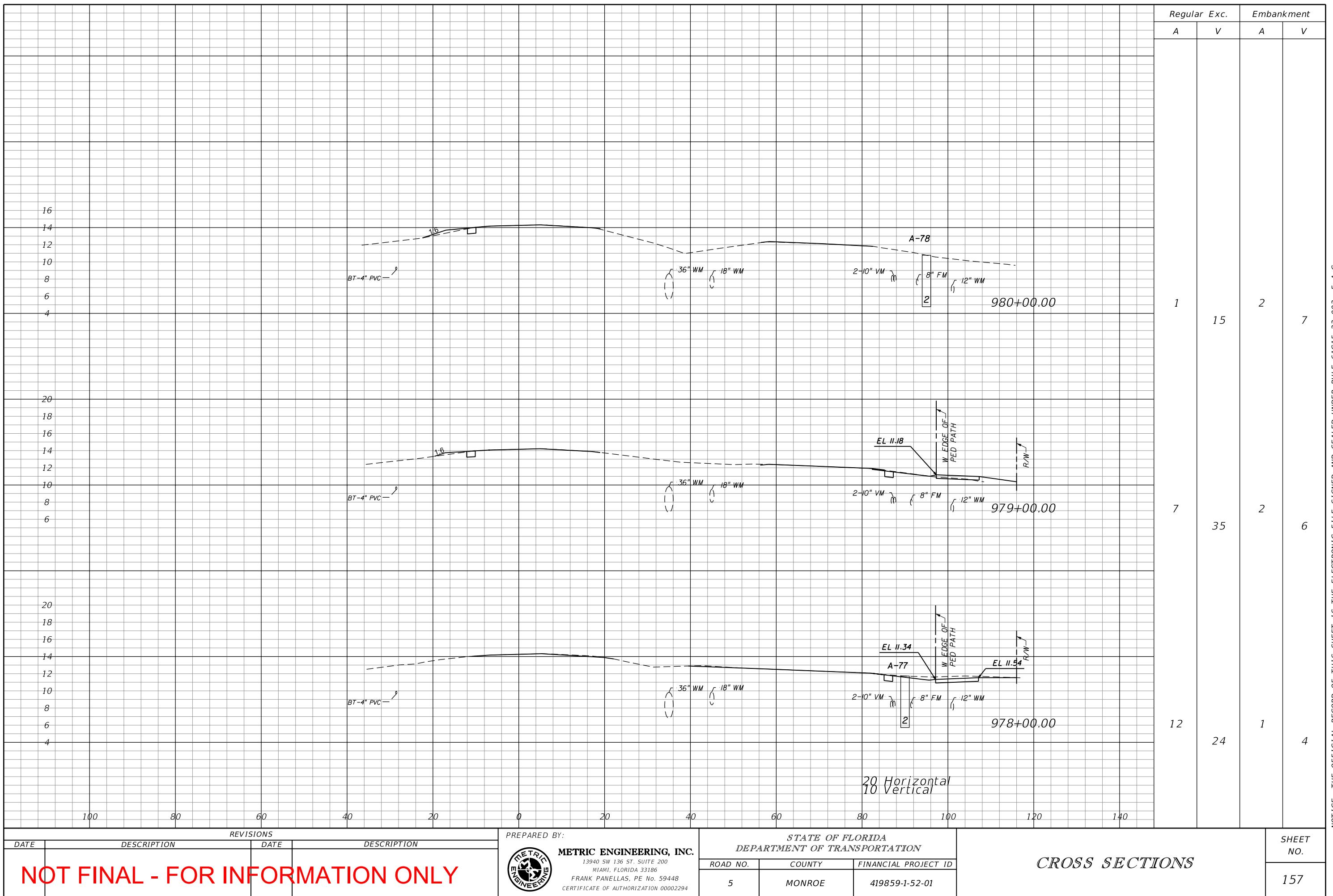
METRIC
ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

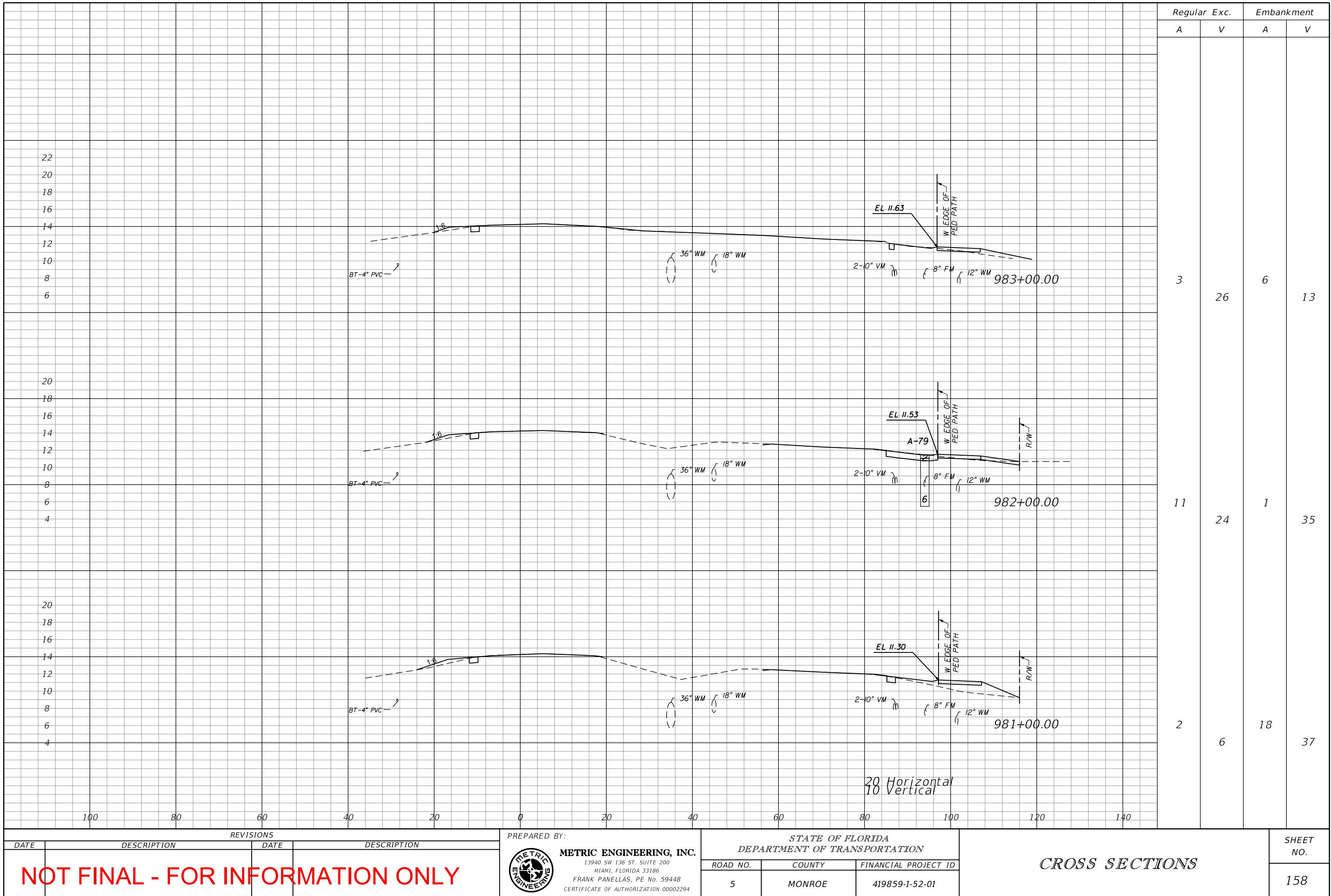


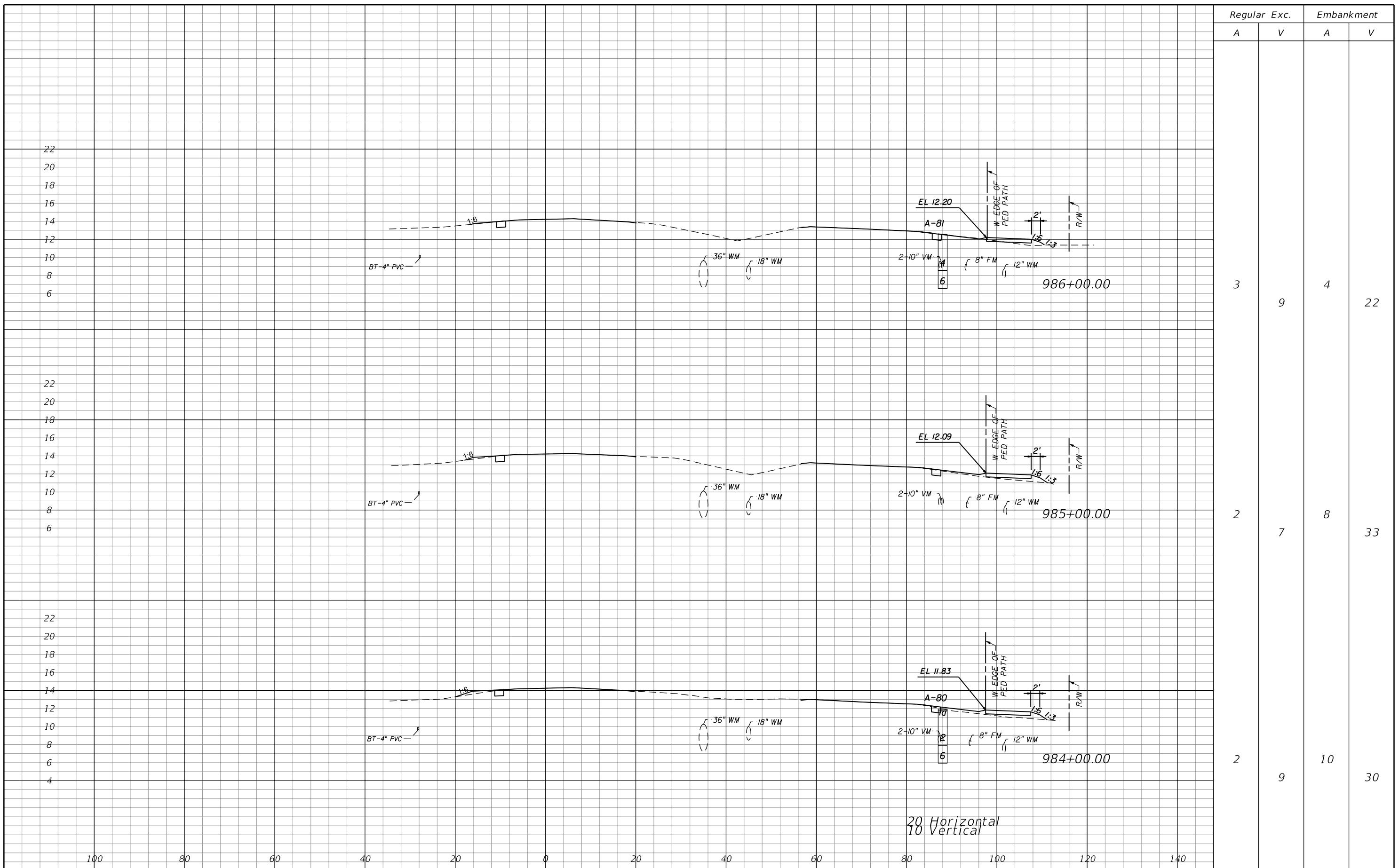
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10 Vertical











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REVISIONS				PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SHEET NO. 159
DATE	DESCRIPTION	DATE	DESCRIPTION				
	NOT FINAL - FOR INFORMATION ONLY			5	MONROE	419859-1-52-01	

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TABULATION OF VERTICAL AND HORIZONTAL VERIFICATION OF UTILITIES

VVH NUMBER	STATION (BL SURVEY)	OFFSET (BL SURVEY)	TOP ELEVATION OF UTILITY	GROUND ELEVATION	UTILITY
TH1	826+06.30	101.80 RT	8.07'	10.46'	WATER MAIN
TH2	826+07.70	103.40 RT	9.08'	10.42'	WATER MAIN
TH3	902+09.60	90.82 RT	7.45'	11.85'	SANITARY
TH4	907+17.90	101.90 RT	8.40'	11.42'	WATER MAIN
TH5	911+79.40	101.70 RT	9.94'	12.86'	WATER MAIN
TH6	917+00.40	101.60 RT	9.26'	12.32'	WATER MAIN
TH7	919+13.90	100.90 RT	9.95'	13.01	WATER MAIN
TH8	921+63.60	103.20 RT	9.96'	12.95'	WATER MAIN
TH9	922+64.50	103.30 RT	9.34'	12.34'	WATER MAIN
TH10	922+64.50	103.30 RT	11.65'	12.34'	WATER MAIN
TH11	923+23.40	90.80 RT	9.81'	12.74'	SANITARY
TH12	935+76.00	103.90 RT	10.48'	13.41'	WATER MAIN
TH13	935+76.00	103.90 RT	12.17'	13.41'	WATER MAIN
TH14	937+84.40	104.70 RT	9.46'	12.90'	WATER MAIN
TH15	939+29.80	103.60 RT	10.10'	12.77'	WATER MAIN
TH16	939+29.80	103.60 RT	10.60	12.77'	WATER MAIN
TH17	946+30.30	101.20 RT	9.56	12.49'	WATER MAIN
TH18	946+31.20	105.40 RT	11.38'	12.46'	WATER MAIN
TH19	972+84.00	101.50 RT	8.89'	12.03'	WATER MAIN
TH20	983+97.10	101.90 RT	8.04'	11.04'	WATER MAIN
TH21	983+97.10	101.90 RT	9.64'	11.04'	WATER MAIN
TH22	827+10.49	101.25 RT	8.14'	10.64'	12" PVC WATER
TH23	827+95.70	100.92 RT	8.20'	10.60'	12" PVC WATER
TH24	829+97.45	101.70 RT	7.03'	9.61'	12" PVC WATER
TH25	832+03.68	100.92 RT	6.74'	9.22'	12" PVC WATER
TH26	833+99.05	101.50 RT	6.01'	8.51'	12" PVC WATER
TH27	834+99.56	101.49 RT	5.82'	8.36'	12" PVC WATER
TH28	836+75.97	87.91 RT	5.87'	9.13'	12" PVC FORCemain
TH29	836+73.66	87.92 RT	6.02'	9.28'	12" PVC FORCemain
TH30	836+73.90	101.18 RT	6.13'	8.52'	12" PVC WATER
TH31	858+00.01	88.45 RT	7.69'	10.88'	12" PVC FORCemain
TH32	858+00.04	100.01 RT	7.78'	10.52'	12" PVC WATER
TH33	860+99.00	87.61 RT	8.01'	11.16'	12" PVC FORCemain
TH34	861+00.31	99.78 RT	7.67'	10.57'	12" PVC WATER
TH35	870+01.61	88.04 RT	6.90'	11.16'	12" PVC FORCemain
TH36	870+02.41	99.36 RT	7.39'	10.33'	12" PVC WATER
TH37	871+99.14	88.00 RT	8.22'	11.27'	12" PVC FORCemain
TH38	871+98.94	98.40 RT	8.15'	11.05'	12" PVC WATER
TH39	876+97.90	88.00 RT	7.89'	10.79'	12" PVC FORCemain
TH40	877+00.25	97.65 RT	7.59'	10.39'	12" PVC WATER
TH41	885+17.61	90.15 RT	7.95'	11.13'	12" PVC FORCemain
TH42	885+17.23	96.39 RT	7.69'	10.88'	12" PVC WATER
TH43	888+64.18	92.45 RT	8.25'	11.33'	12" PVC FORCemain
TH44	888+63.17	99.71 RT	7.58'	10.58'	12" PVC WATER
TH45	891+90.87	109.90 RT	7.38'	11.16'	12" PVC WATER
TH46	891+91.09	97.87 RT	8.59'	11.39'	12" PVC FORCemain
TH47	893+98.37	110.61 RT	7.72'	11.62'	12" PVC WATER
TH48	894+00.04	98.38 RT	8.97'	11.85'	12" PVC FORCemain
TH49	897+98.76	95.62 RT	8.79'	11.94'	12" PVC FORCemain
TH50	898+00.18	111.10 RT	8.19'	11.71'	12" PVC WATER
TH51	902+24.83	106.96 RT	8.40'	11.40'	12" PVC WATER
TH52	902+23.44	89.98 RT	7.82'	12.17'	12" PVC FORCemain
TH53	904+00.90	104.46 RT	8.83'	11.63'	12" PVC WATER
TH54	903+99.41	88.86 RT	9.00'	12.20'	12" PVC FORCemain
TH55	905+99.21	100.84 RT	8.85'	11.75'	12" PVC WATER
TH56	905+98.17	109.33 RT	9.72'	11.60'	4" PVC FORCemain
TH57	907+98.95	101.38 RT	8.36'	11.54'	12" PVC WATER

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			



PREPARED BY:
METRIC ENGINEERING, INC.
 13940 SW 136 ST. SUITE 200
 MIAMI, FLORIDA 33186
 FRANK PANELLAS, PE No. 59448
 CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 SR5 MONROE 419859-1-52-01

TABLE OF VERIFIED UTILITIES

SHEET NO.
 UTV-1

TABULATION OF VERTICAL AND HORIZONTAL VERIFICATION OF UTILITIES

VVH NUMBER	STATION (BL SURVEY)	OFFSET (BL SURVEY)	TOP ELEVATION OF UTILITY	GROUND ELEVATION	UTILITY
TH58	907+98.03	93.34 RT	7.63'	11.91'	4" PVC FORCemain
TH59	911+99.54	94.17 RT	8.52'	12.93'	4" PVC FORCemain
TH60	911+98.08	101.27 RT	9.70'	12.88'	12" PVC WATER
TH61	915+98.29	95.65 RT	8.45'	12.45'	4" PVC FORCemain
TH62	915+98.92	102.21 RT	9.05'	12.23'	12" PVC WATER
TH63	918+99.52	96.17 RT	9.58'	13.17'	4" PVC FORCemain
TH64	918+99.00	102.05 RT	9.99'	13.09'	12" PVC WATER
TH65	922+57.77	107.05 RT	8.94'	12.36'	6" PVC WATER
TH66	922+71.61	103.23 RT	9.39'	12.71'	12" PVC WATER
TH67	925+60.38	102.57 RT	9.91'	13.00'	12" PVC WATER
TH68	925+60.34	93.98 RT	9.65'	13.05'	8" PVC FORCemain
TH69	927+97.93	93.38 RT	9.28'	12.52'	8" PVC FORCemain
TH70	927+97.62	102.46 RT	8.75'	12.07'	12" PVC WATER
TH71	934+98.98	97.40 RT	9.63'	13.39'	12" PVC FORCemain
TH72	934+98.74	103.94 RT	10.70'	13.70'	12" PVC WATER
TH73	937+96.59	104.50 RT	9.40'	13.00'	12" PVC WATER
TH74	937+95.57	94.09 RT	9.76'	13.17'	4" PVC FORCemain
TH75	937+95.99	88.28 RT	9.75'	13.06'	12" PVC FORCemain
TH76	941+67.48	87.74 RT	9.85'	12.93'	12" PVC FORCemain
TH77	941+67.29	101.58 RT	9.89'	13.09'	12" PVC WATER
TH78	944+00.88	88.10 RT	9.66'	12.57'	8" PVC FORCemain
TH79	943+99.76	101.15 RT	9.41'	12.51'	12" PVC WATER
TH80	946+01.26	87.99 RT	9.76'	12.67'	8" PVC FORCemain
TH81	946+01.66	101.38 RT	9.33'	12.43'	12" PVC WATER
TH82	972+98.90	92.42 RT	9.62'	12.43'	8" PVC FORCemain
TH83	973+00.89	101.48 RT	8.96'	12.26'	12" PVC WATER
TH84	975+00.38	92.38 RT	8.93'	12.13'	8" PVC FORCemain
TH85	975+00.19	100.91 RT	8.75'	11.78'	12" PVC WATER
TH86	984+02.03	94.07 RT	8.85'	11.70'	8" PVC FORCemain
TH87	984+01.74	101.39 RT	8.03'	11.03'	12" PVC WATER
TH88	806+00.88	91.51 RT	6.73'	9.88'	16" PVC FORCE MAIN
TH89	806+69.75	91.21 RT	6.61'	9.71'	16" PVC FORCE MAIN
TH90	808+02.80	91.23 RT	6.56'	9.78'	16" PVC FORCE MAIN
TH91	808+89.81	91.13 RT	6.92'	10.05'	16" PVC FORCE MAIN
TH92	811+59.59	111.45 RT	7.56'	10.86'	6" C.I. WATER
TH93	811+79.38	87.86 RT	6.61'	10.76'	12" PVC FORCE MAIN
TH94	811+79.36	91.26 RT	5.91'	10.66'	16" PVC FORCE MAIN
TH95	814+35.60	111.75 RT	8.13'	11.95'	6" C.I. WATER
TH96	814+31.10	87.95 RT	7.33'	10.93'	12" PVC FORCE MAIN
TH97	814+30.97	93.5 RT	6.30'	10.75'	16" PVC FORCE MAIN
TH98	815+61.06	111.71 RT	7.51'	10.51'	8" C.I. WATER
TH99	815+62.34	94.4 RT	6.09'	10.59'	16" PVC FORCE MAIN
TH100	815+63.26	88.79 RT	8.17'	10.69'	12" PVC FORCE MAIN
TH101	817+94.65	88.36 RT	7.75'	10.75'	12" PVC FORCE MAIN
TH102	817+94.98	94.66 RT	5.95'	10.37'	16" PVC FORCE MAIN
TH103	817+96.35	107.56 RT	7.11'	10.11'	8" PVC FORCE MAIN
TH104	817+93.73	111.76 RT	7.75'	10.05'	8" C.I. WATER
TH105	817+95.73	102.08 RT	7.67'	10.16'	12" PVC WATER
TH106	823+95.39	94.91 RT	5.91'	10.41'	16" PVC FORCE MAIN
TH107	823+95.31	89.09 RT	7.82'	10.77'	12" PVC FORCE MAIN
TH108	814+22.18	-39.91 LT	8.47'	11.92'	8" PVC WATER

REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY

PREPARED BY:
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
SR5 MONROE 419859-1-52-01

TABLE OF VERIFIED UTILITIES

SHEET NO.
UTV-2

TABULATION OF VERTICAL AND HORIZONTAL VERIFICATION OF UTILITIES

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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**METRIC
ENGINEERING,
INC.**

13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186

FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TABLE OF VERIFIED UTILITIES

SHEET
NO.

UTV-3

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

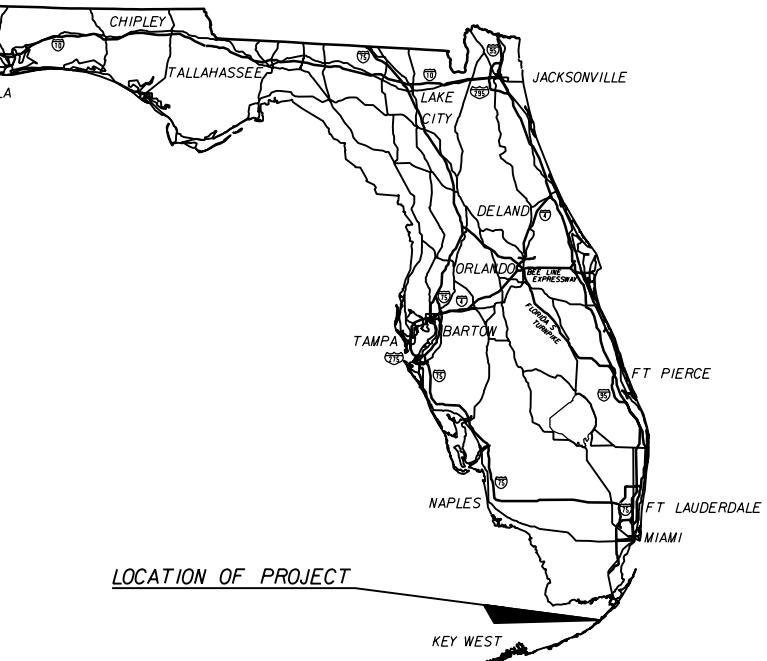
FINANCIAL PROJECT ID 419859-1-52-01
 MONROE COUNTY (90060)

INDEX OF SIGNING AND PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2 Thru S-5	TABULATION OF QUANTITIES
S-6	SIGNING & MARKING GENERAL NOTES
S-7 Thru S-44	SIGNING & PAVEMENT MARKINGS PLANS
S-45	SIGNING AND MARKING SPECIAL DETAILS
S-46 Thru S-48	GUIDE SIGN WORK SHEET
S-49	MULTI-COLUMN SIGN DATA
S-50	PLACEMENT OF REFLECTIVE PAVEMENT MARKERS

STATE ROAD NO. 5
 US 1/OVERSEAS HWY FROM NORTH OF ATLANTIC AVENUE TO HIALEAH LANE

SIGNING AND PAVEMENT MARKING PLANS



LOCATION OF PROJECT

SIGNING AND PAVEMENT MARKING SHOP DRAWINGS
 TO BE SUBMITTED TO:

FRANK PANELLAS, P.E.
 METRIC ENGINEERING, INC.
 13940 S.W. 136th STREET
 MIAMI, FLORIDA 33186
 TEL. (305) 235-5098

PLANS PREPARED BY:



- ENGINEERS
- PLANNERS
- SURVEYORS

METRIC ENGINEERING, INC.
 13940 S.W. 136th STREET
 SUITE 200
 MIAMI, FLORIDA 33186
 TEL. (305) 235-5098
 FAX. (305) 251-5894
 VENDOR # F-59-1685550
 FLORIDA CERT. NO. EB-0002294
 NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

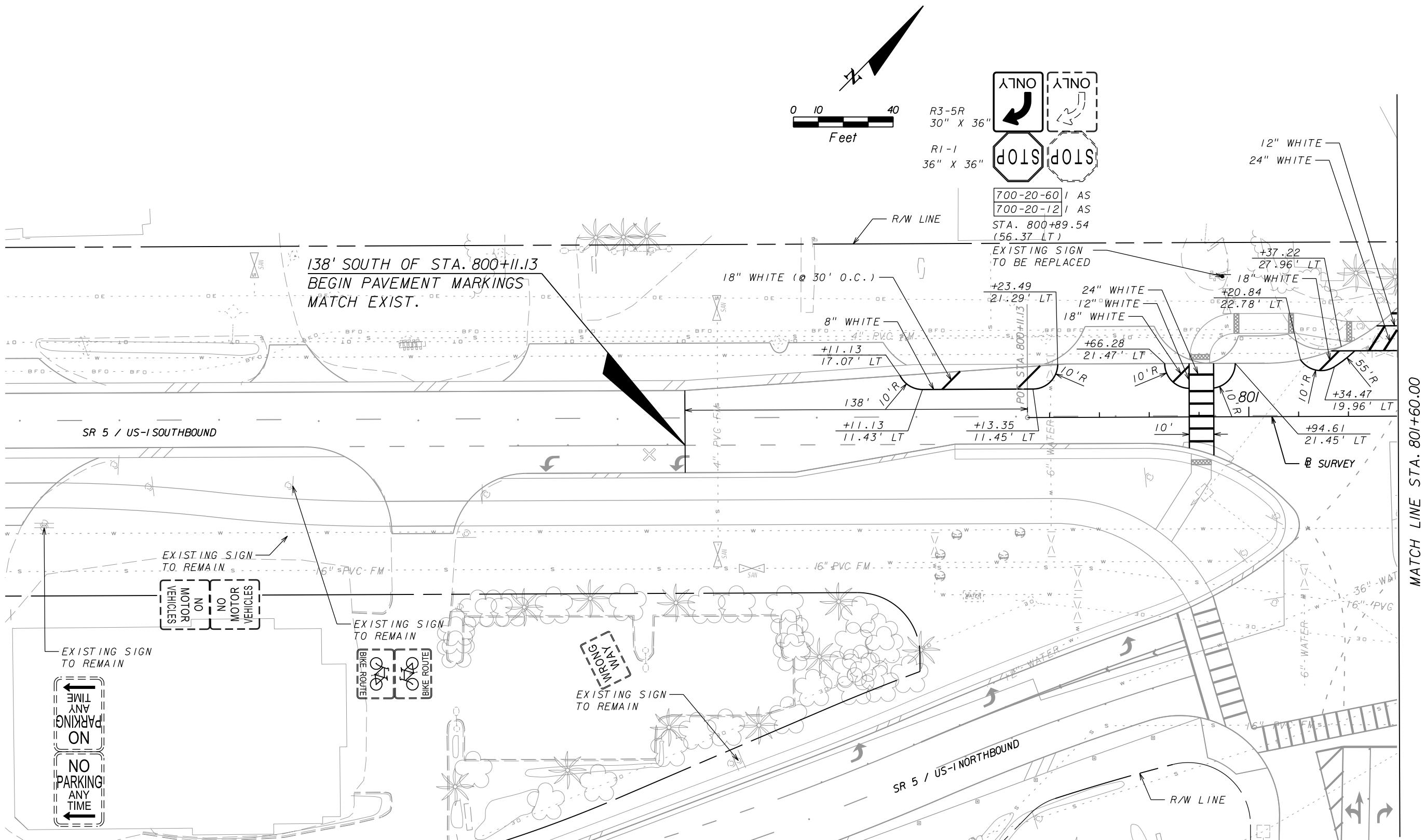
SIGNING AND PAVEMENT
 MARKING PLANS
 ENGINEER OF RECORD: FRANK PANELLAS, PE

P.E. NO. 59448

FISCAL YEAR	SHEET NO.
13	S-1

NOT FINAL - FOR INFORMATION ONLY

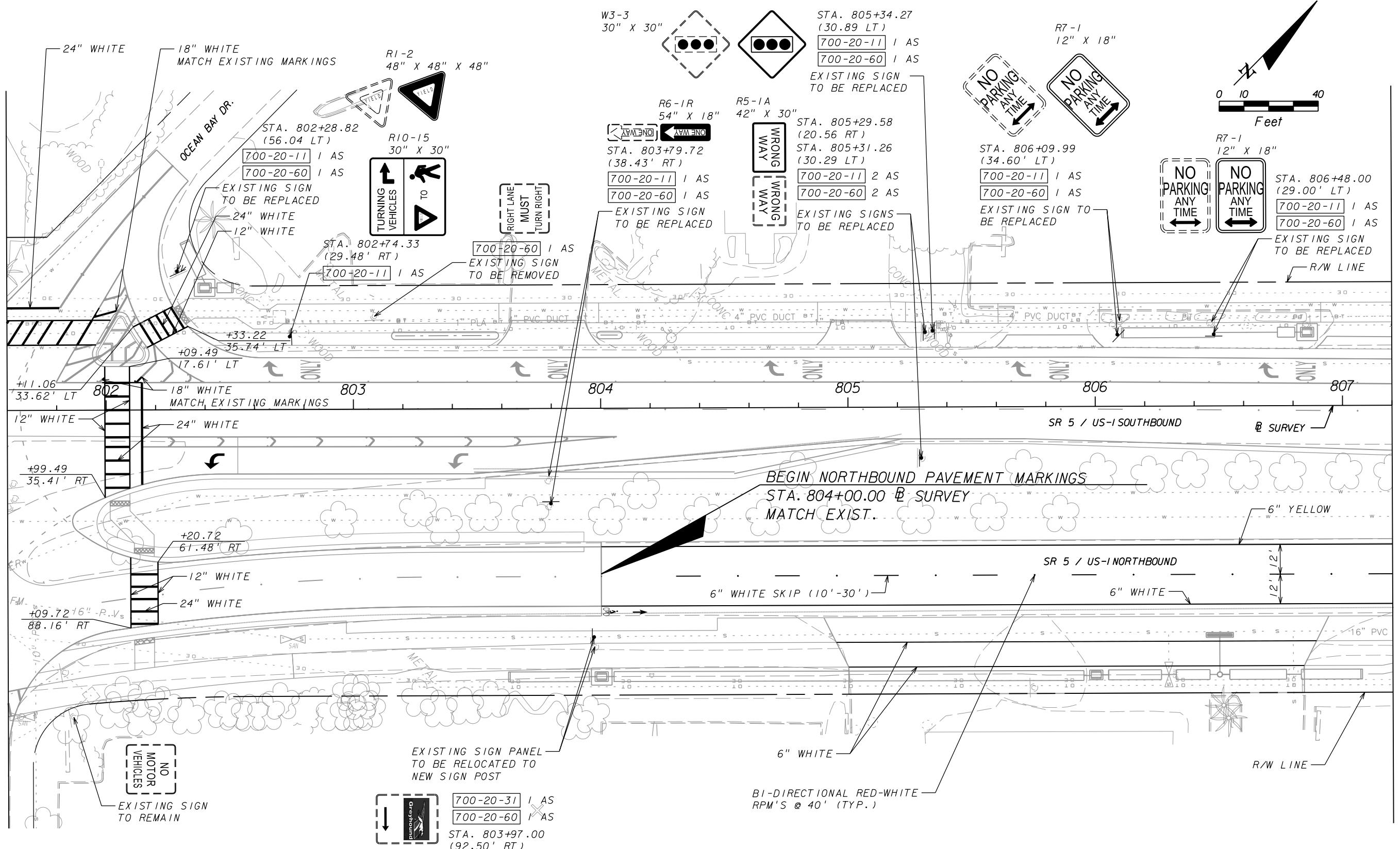
FDOT PROJECT MANAGER: CHRISTOPHER TAVELLA, P.E.



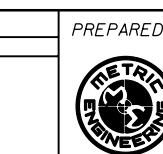
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REVISIONS						PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE NO. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING & PAVEMENT MARKING PLANS	SHEET NO. S-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
NOT FINAL - FOR INFORMATION ONLY						5	MONROE	419859-1-52-01			

MATCH LINE STA. 801+60.00



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY			



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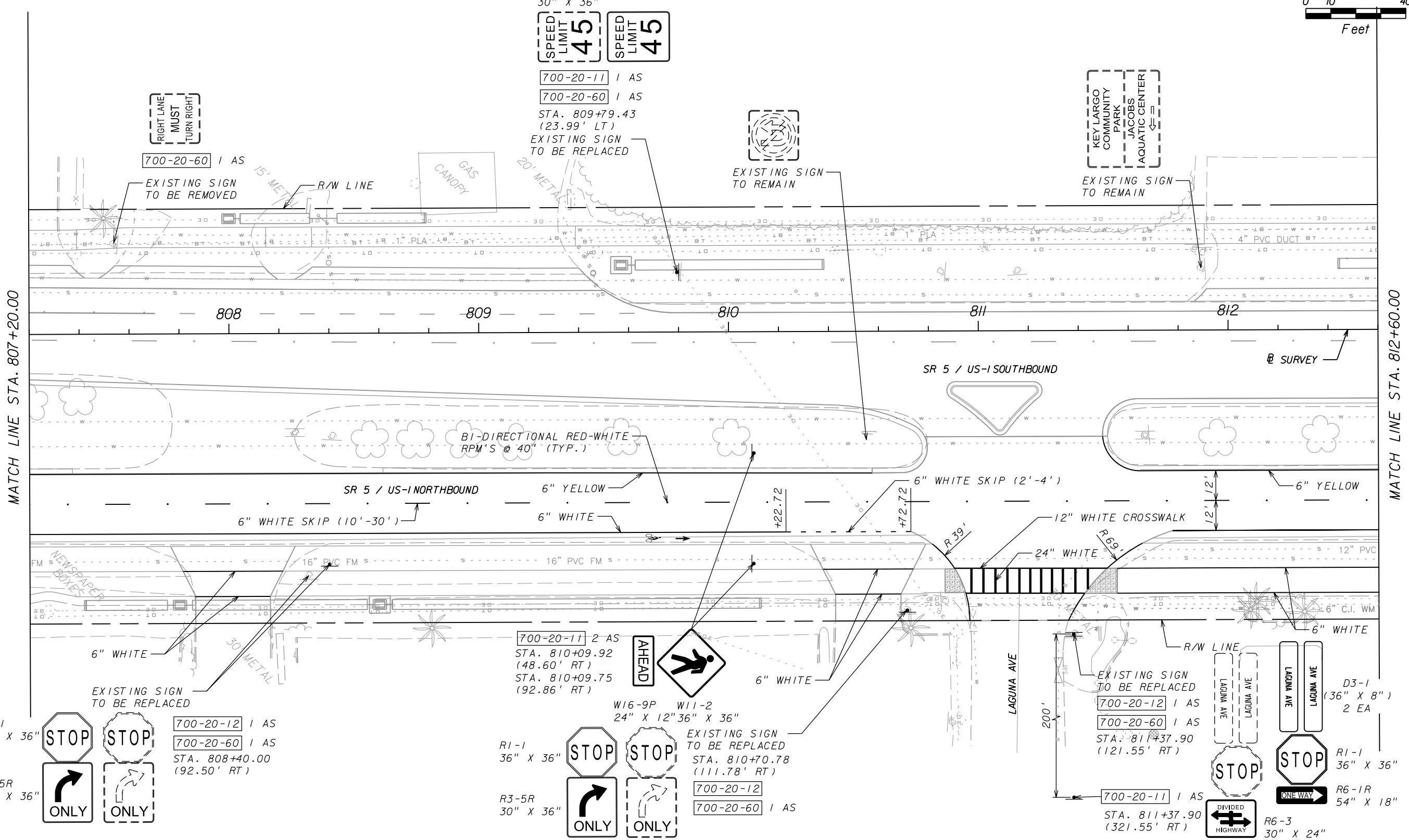
METRIC ENGINEERING, INC.
13940 SW 136 ST, SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNING & PAVEMENT
MARKING PLANS

SHEET NO.
S-8



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METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186

FRANK PANELLAS, PE No. 59448
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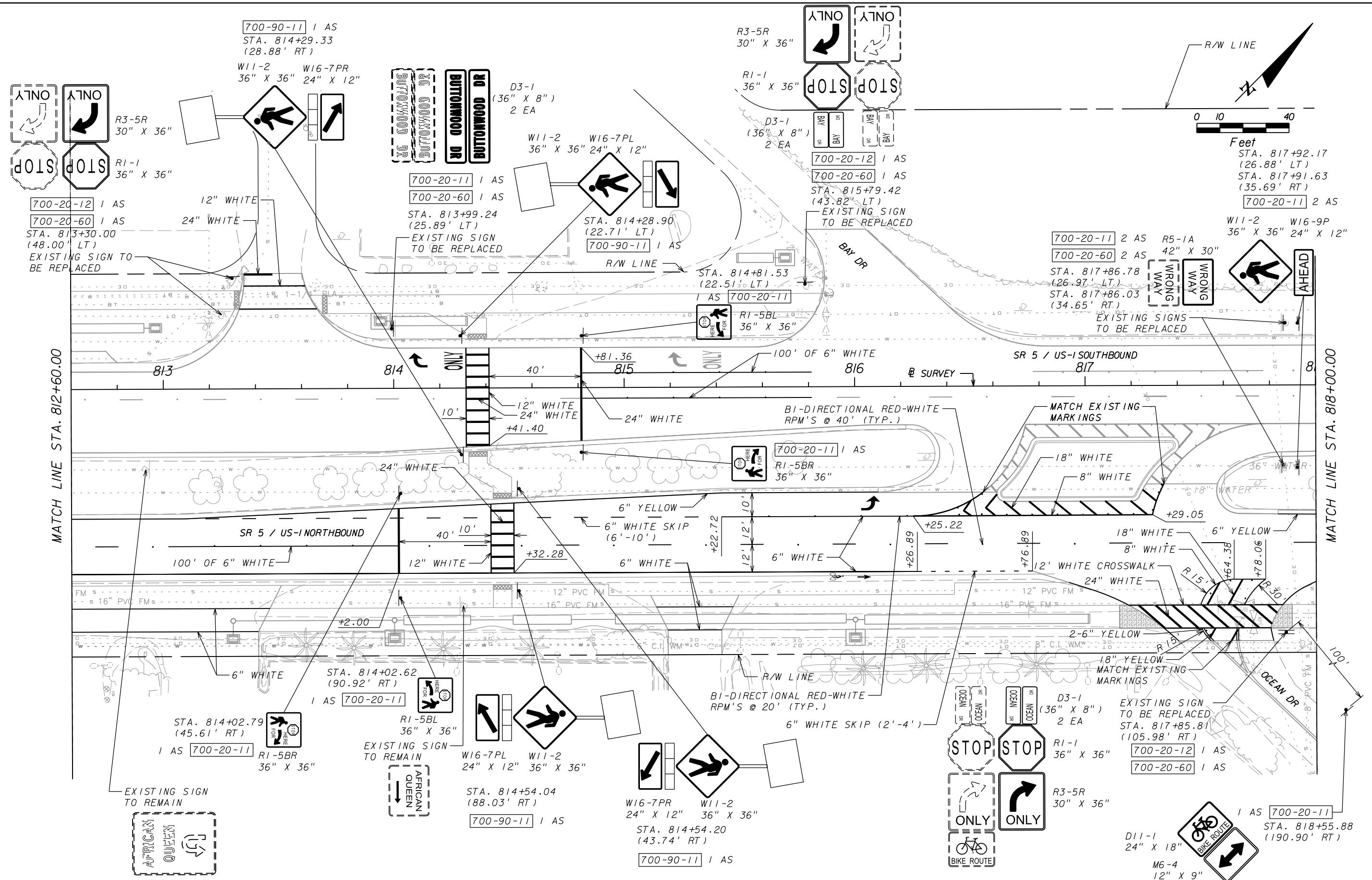
**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

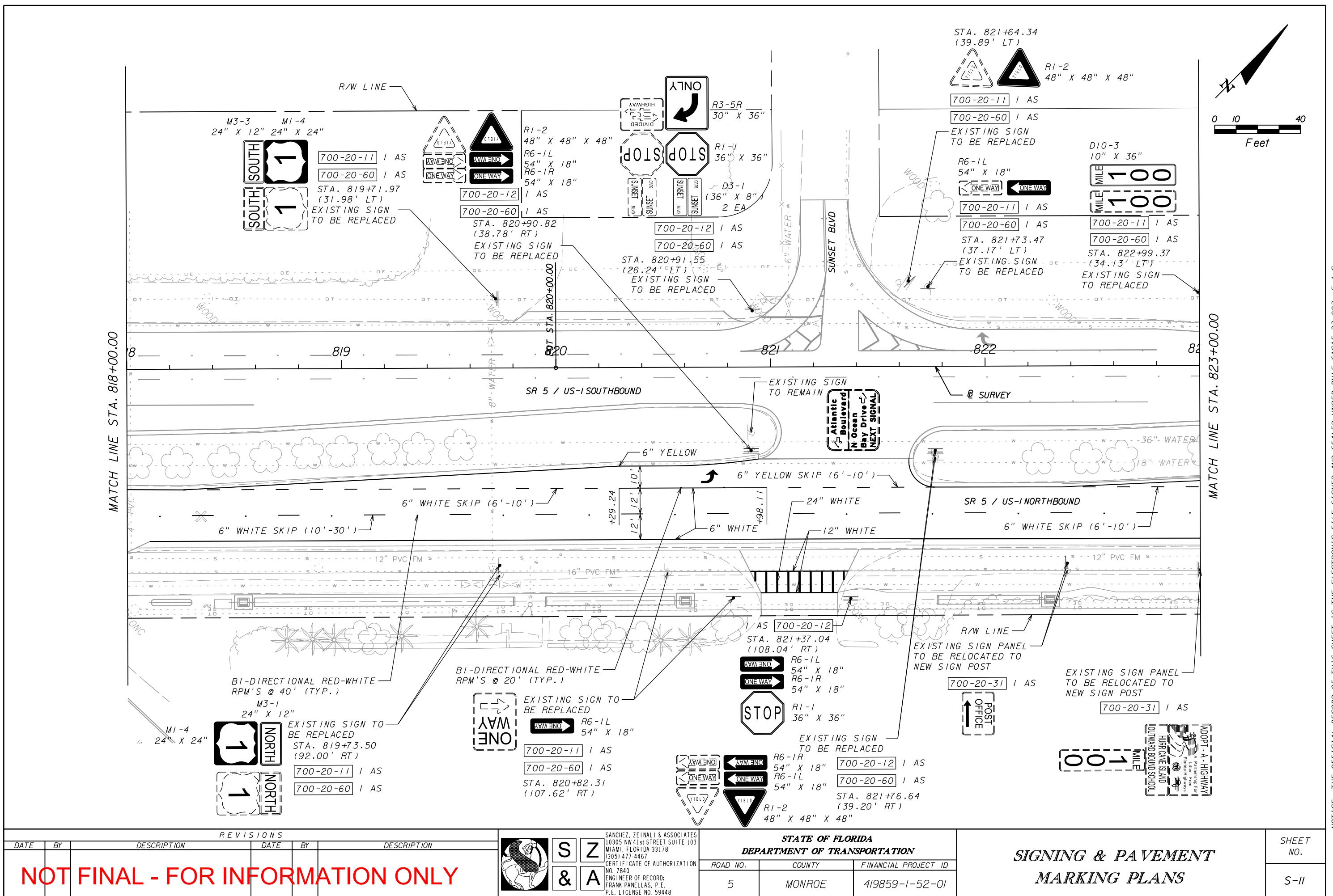
AD NO.	COUNTY	FINANCIAL PROJECT NO.
5	MONROE	419859-1-52-C

SIGNING & PAVEMENT MARKING PLANS

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REVISIONS						PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO. S-9
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
NOT FINAL - FOR INFORMATION ONLY						ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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SIGNING & PAVEMENT MARKING PLANS								

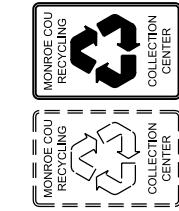
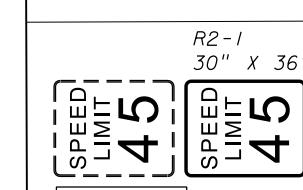




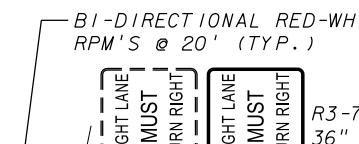
BEGIN SOUTHBOUND PAVEMENT MARKING.

STA. 825+00.00 B SURVEY

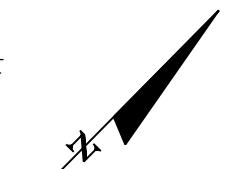
MATCH EXIST.



FTP-49-
42" X 6



BI-DIRECTIONAL RED-WHITE
RPM'S @ 20' (TYP.)



A horizontal scale bar divided into four equal segments by vertical tick marks. The first segment is labeled "10" at its left end, and the fourth segment is labeled "40" at its right end. Below the scale bar, the word "Feet" is written in a cursive font.

MATCH LINE STA 823+00 00

W SOUTHBOUND PA
825+00.00 B SURV
CH EXIST.

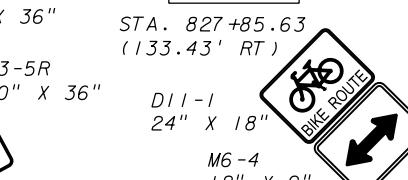
STA. 823+88.
(29.28' LT)
EXISTING SIG
TO BE REPLACED

100

4

EXISTING SIGN TO
BE REPLACED
STA. 824+08.00

(92.00' RT)
700-20-11 / AS
700-20-60 / AS



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METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
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FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

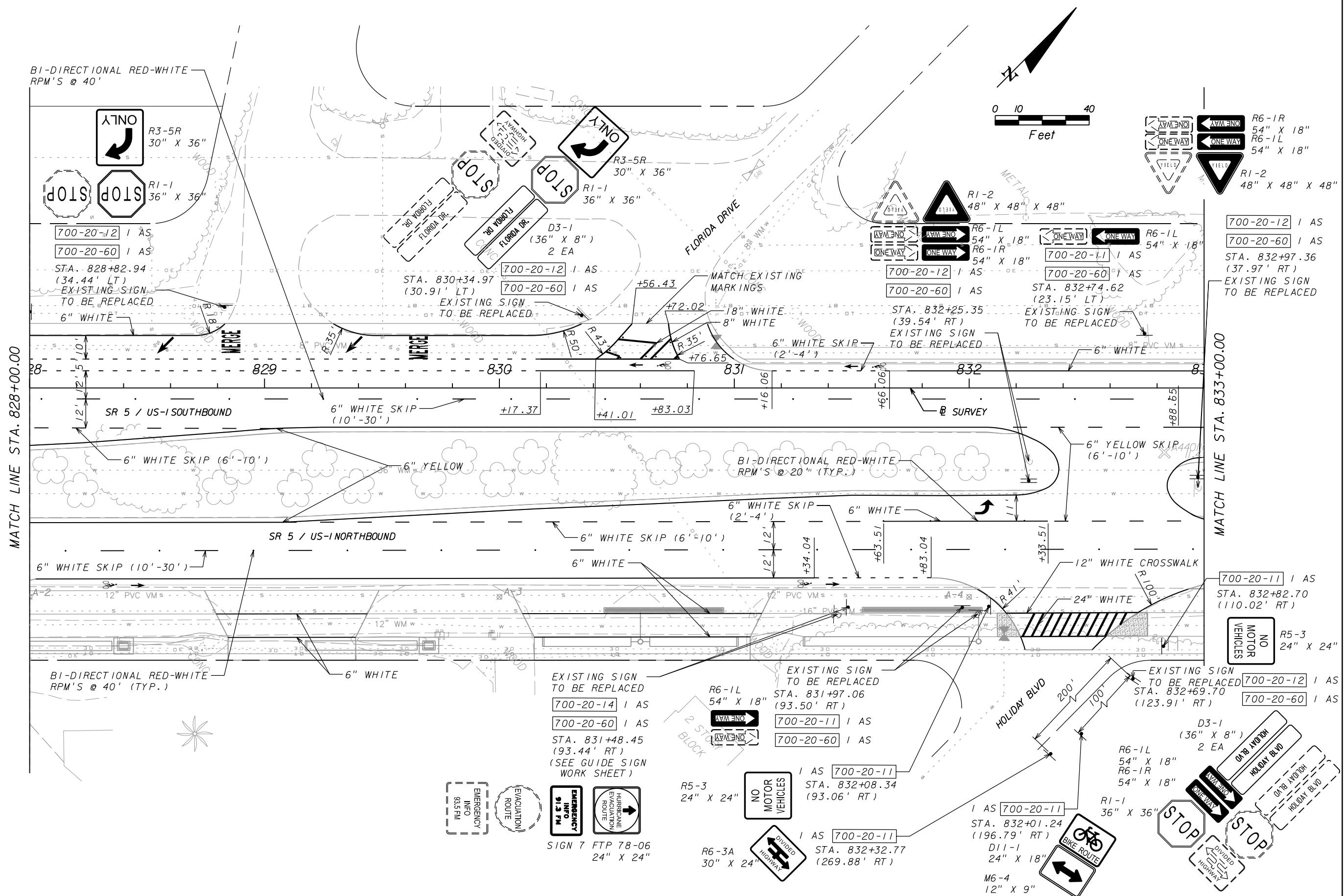
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

*SIGNING & PAVEMENT
MARKING PLANS*

S 5 24"

SHEET
NO.

S-12



REVISIONS						
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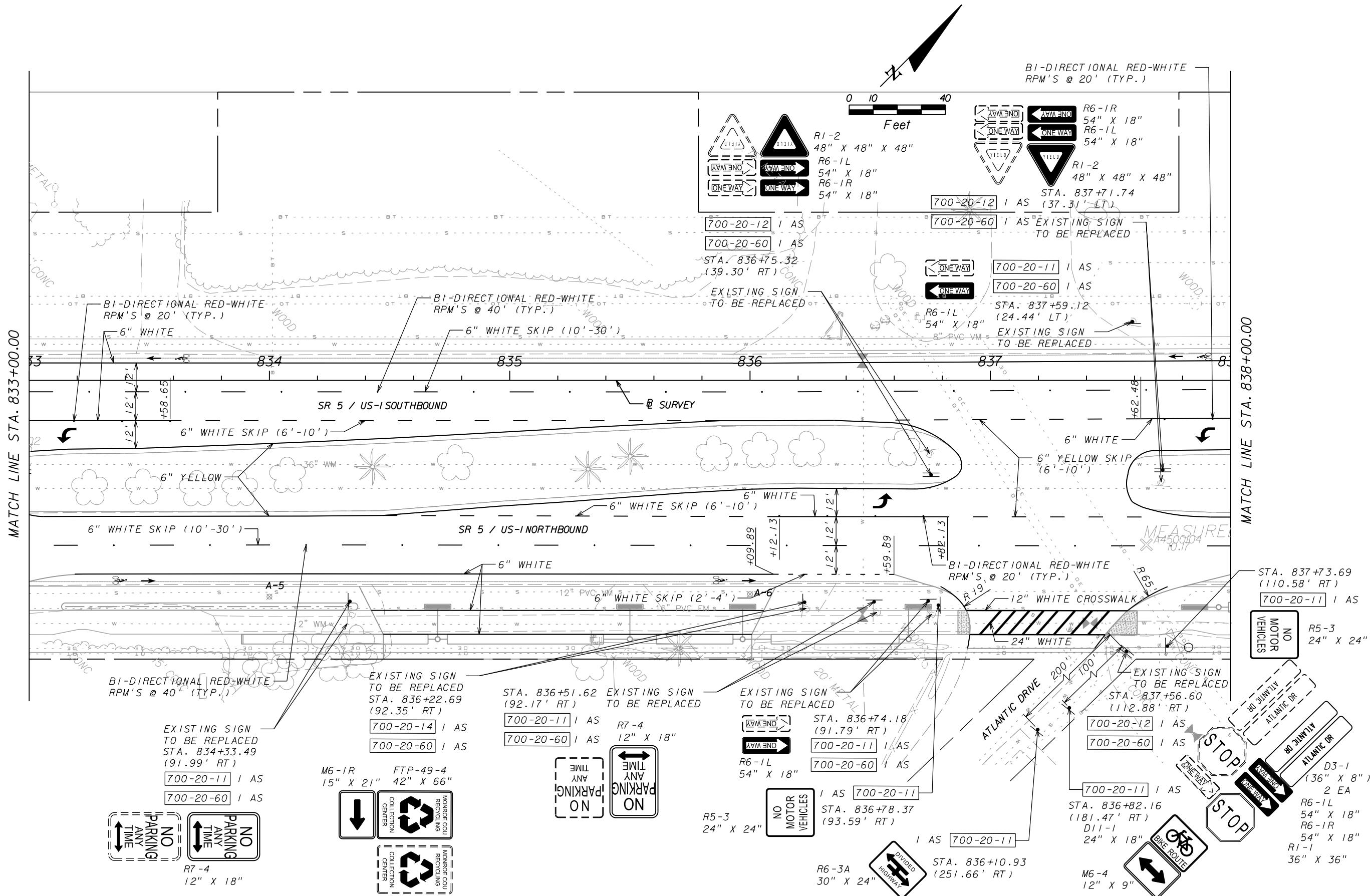
FRANK PAMELLAS, PE #59448
CERTIFICATE OF AUTHORIZATION 00002294

*STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION*

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

*SIGNING & PAVEMENT
MARKING PLANS*

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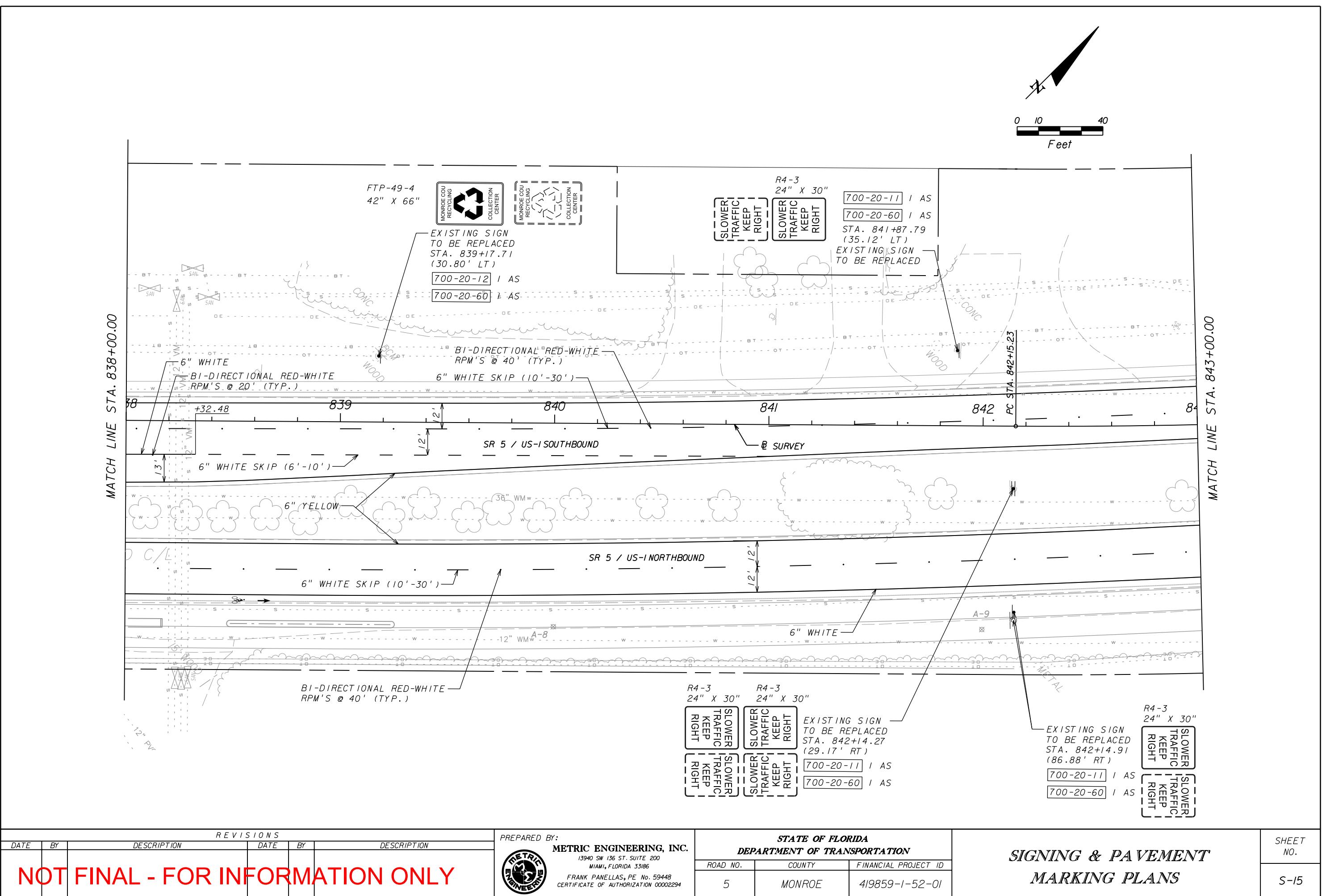


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MIAMI, FLORIDA 33186
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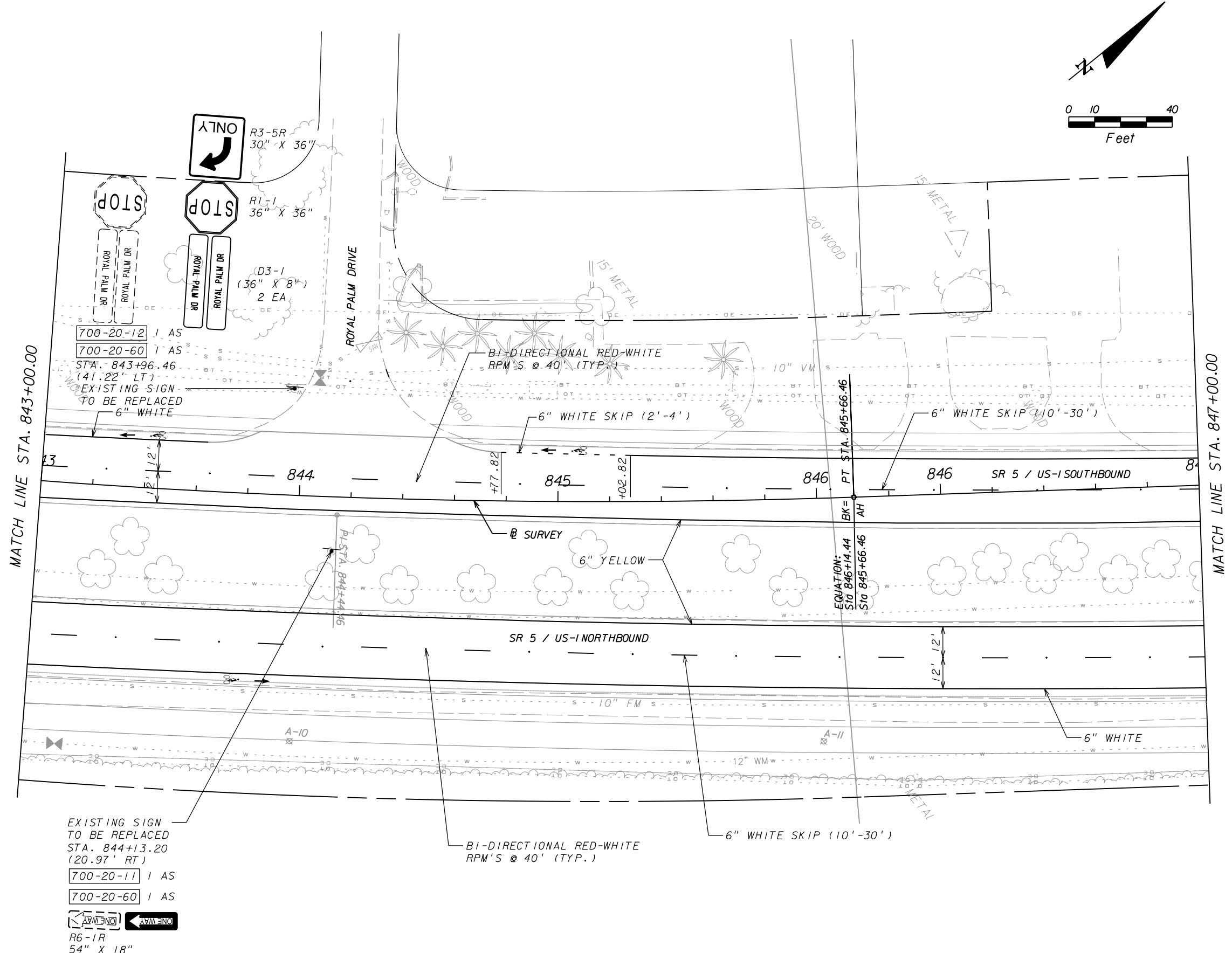
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SIGNING & PAVEMENT MARKING PLANS

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MATCH LINE STA. 843+00.00



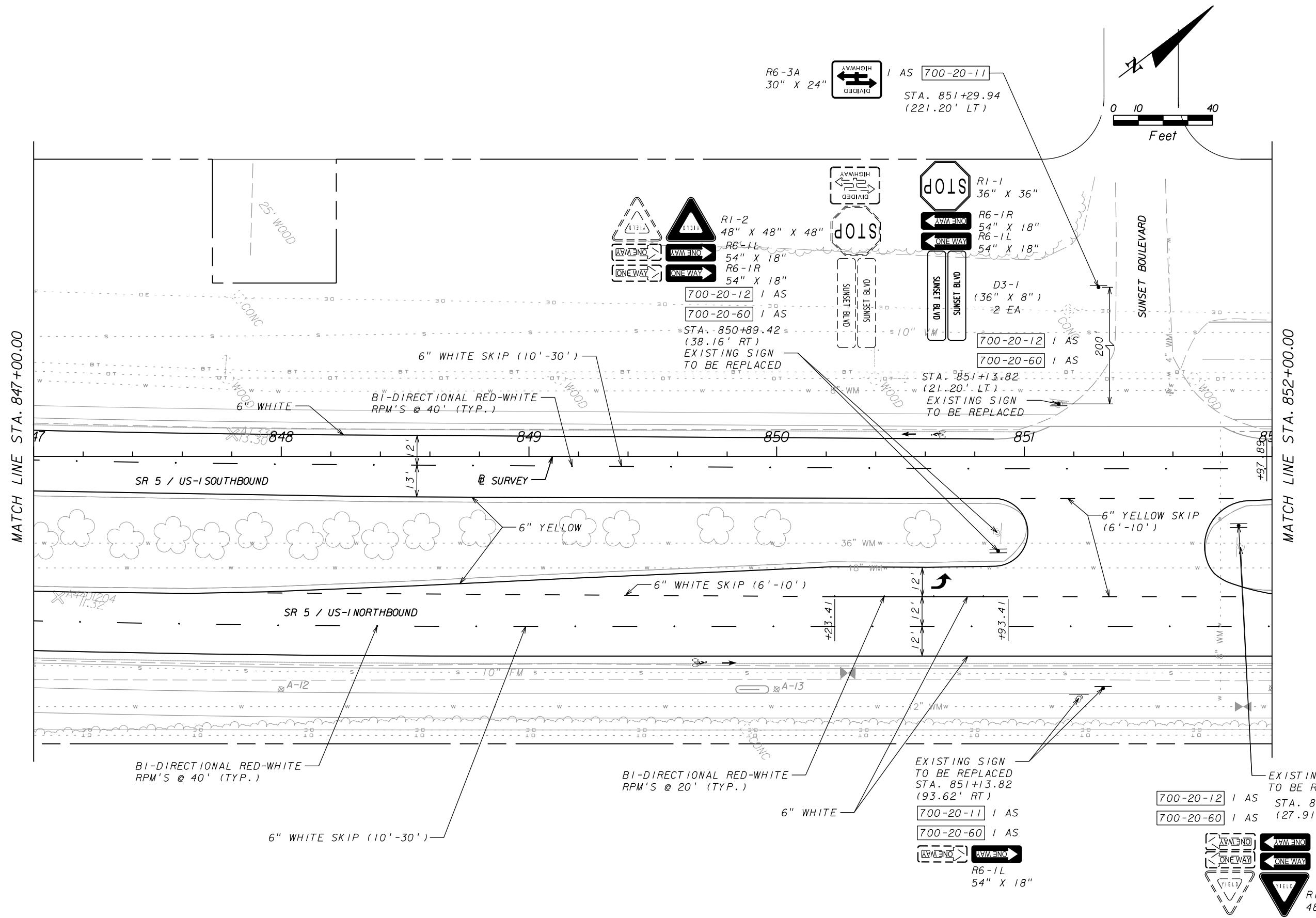
REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION
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PREPARED BY:
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 13940 SW 136 ST, SUITE 200
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STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01

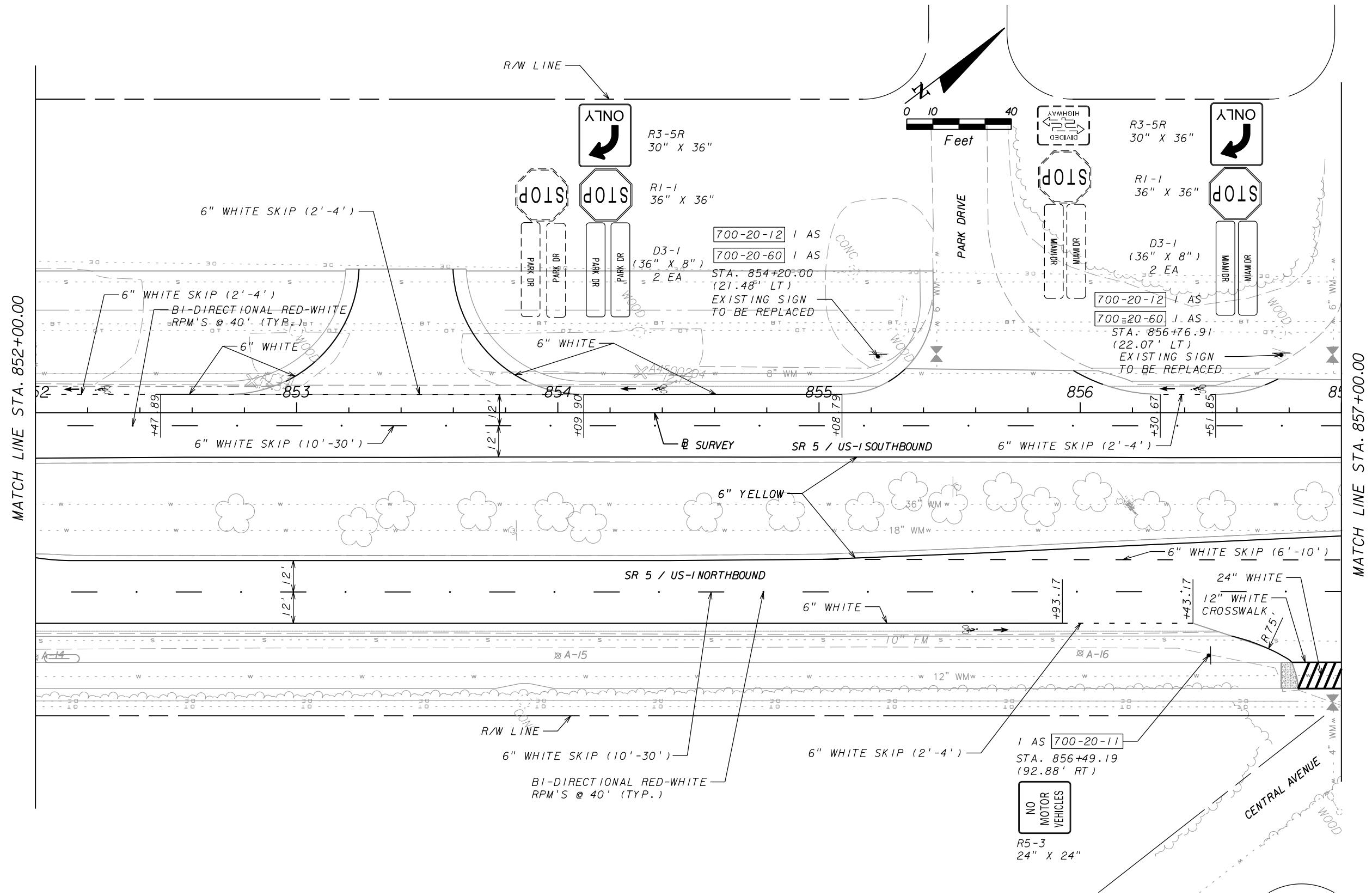
SIGNING & PAVEMENT
 MARKING PLANS

SHEET NO.
 S-16



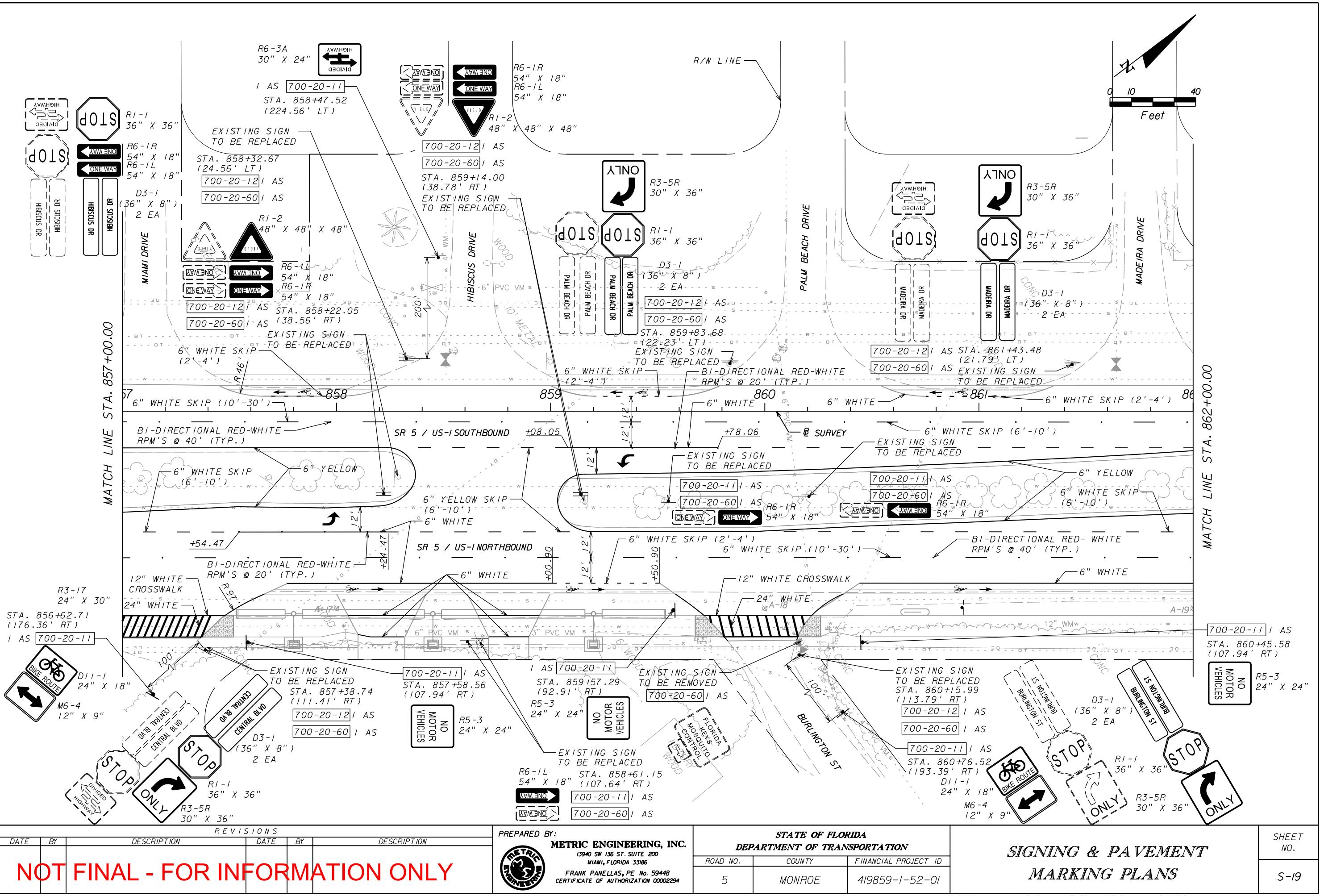
NOTICE : THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23-003, F.A.C.

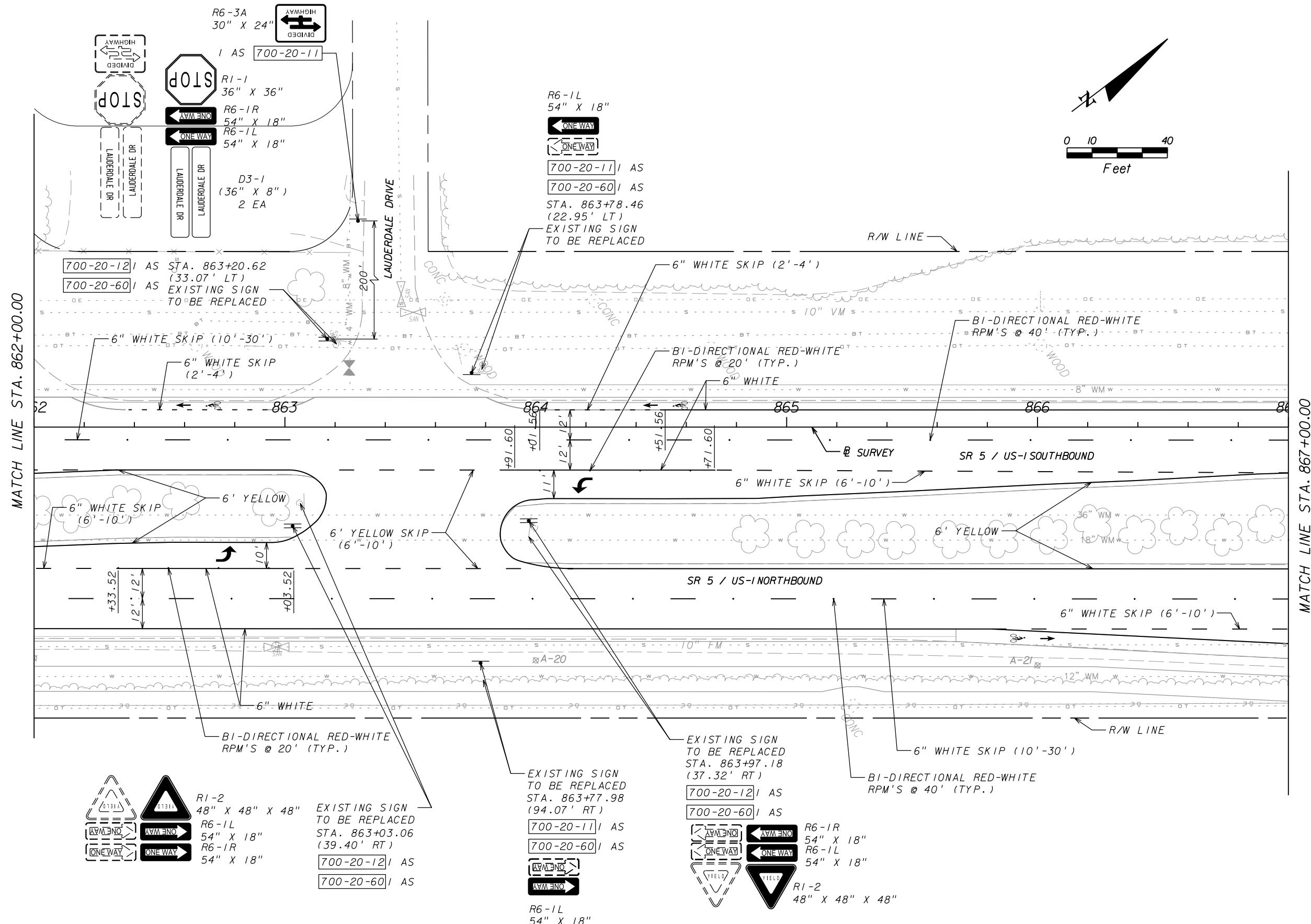
REVISIONS						PREPARED BY:  METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE NO. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
NOT FINAL - FOR INFORMATION ONLY						ROAD NO.	COUNTY	FINANCIAL PROJECT ID
						5	MONROE	419859-1-52-01
SIGNING & PAVEMENT MARKING PLANS								S-17



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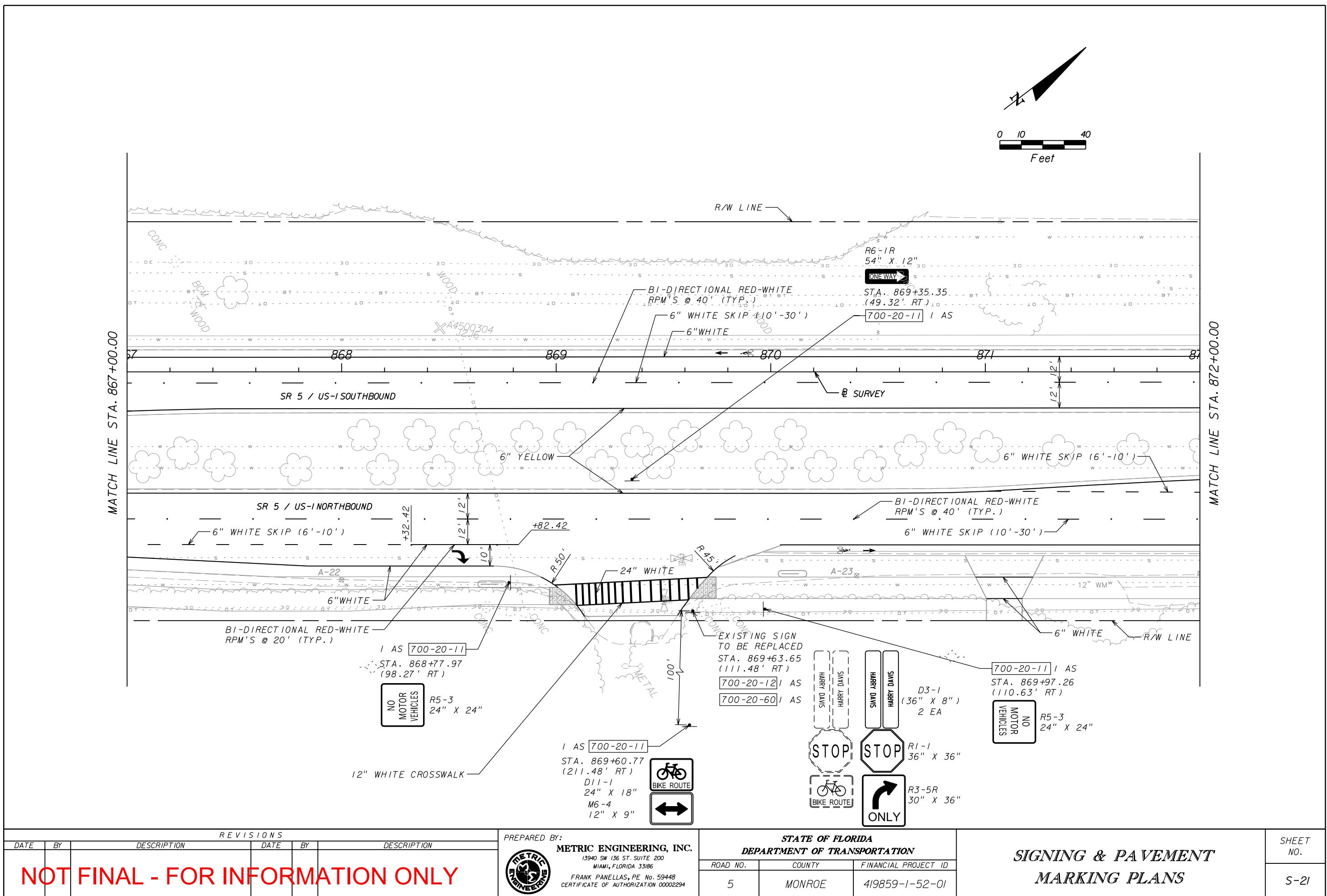
REVISIONS						PREPARED BY: METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SIGNING & PAVEMENT MARKING PLANS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				ROAD NO.
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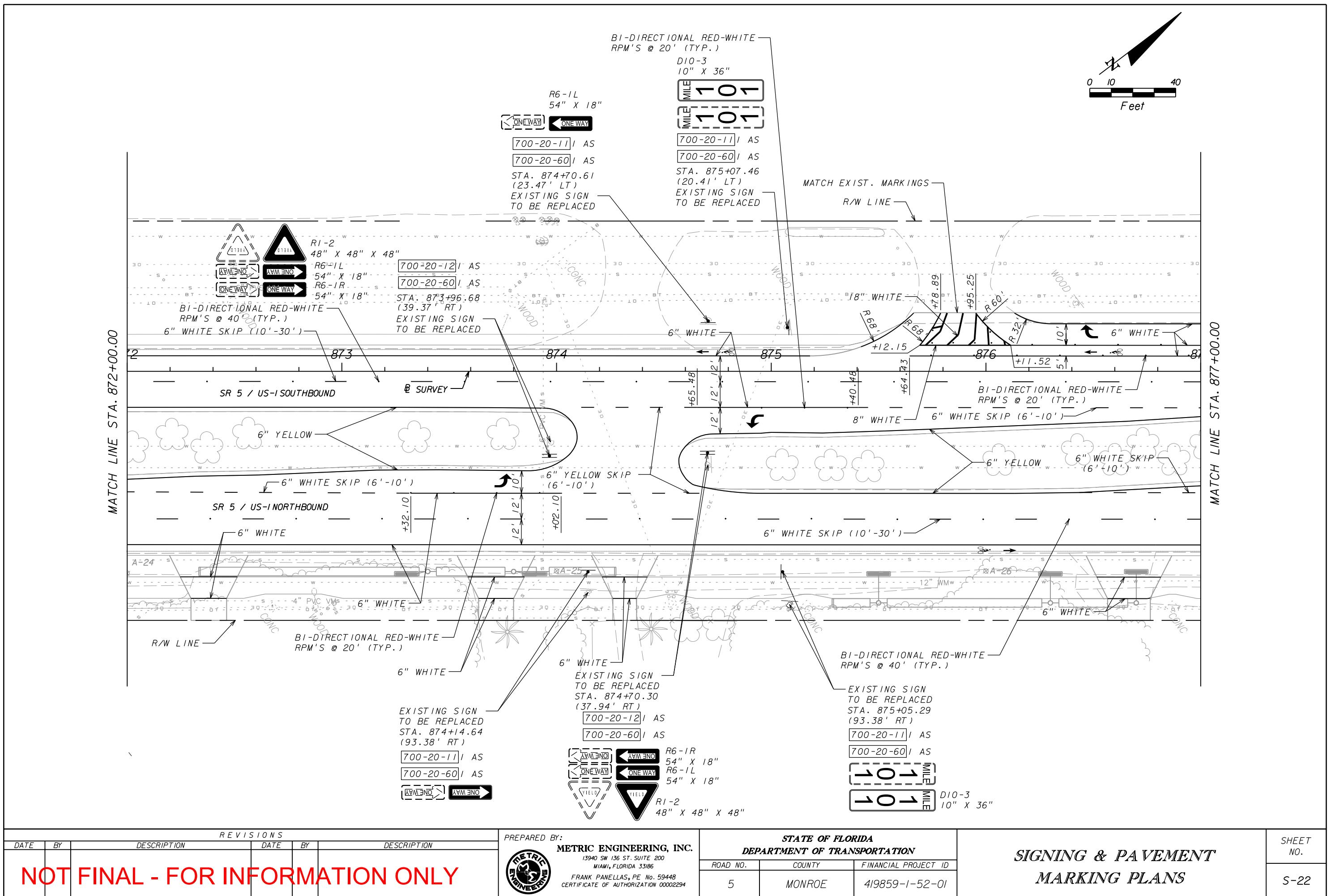




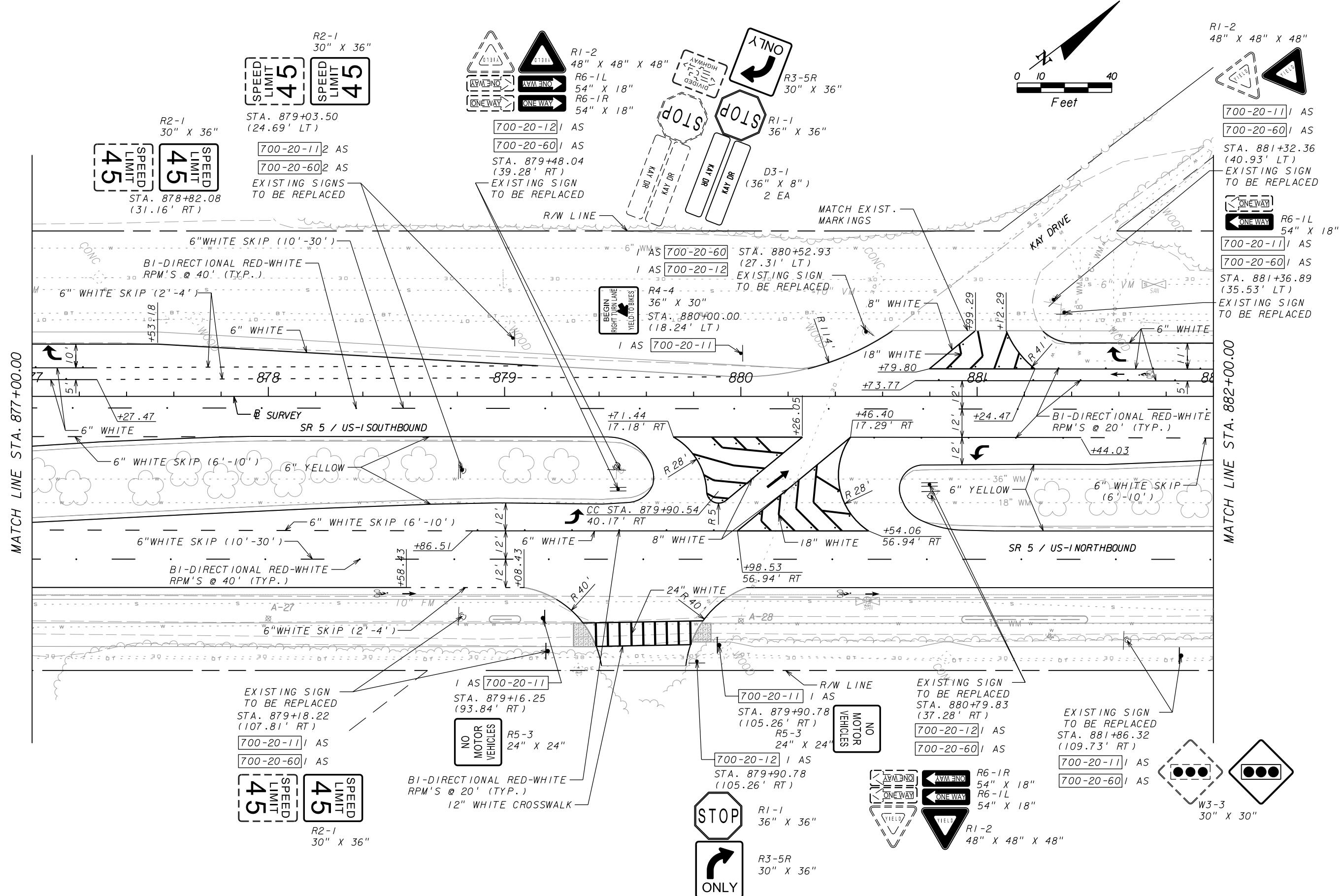
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						METRIC ENGINEERING, INC. 13940 SW 136 ST. SUITE 200 MIAMI, FLORIDA 33186 FRANK PANELLAS, PE No. 59448 CERTIFICATE OF AUTHORIZATION 00002294	DEPARTMENT OF TRANSPORTATION	5	MONROE	419859-1-52-01		S-20

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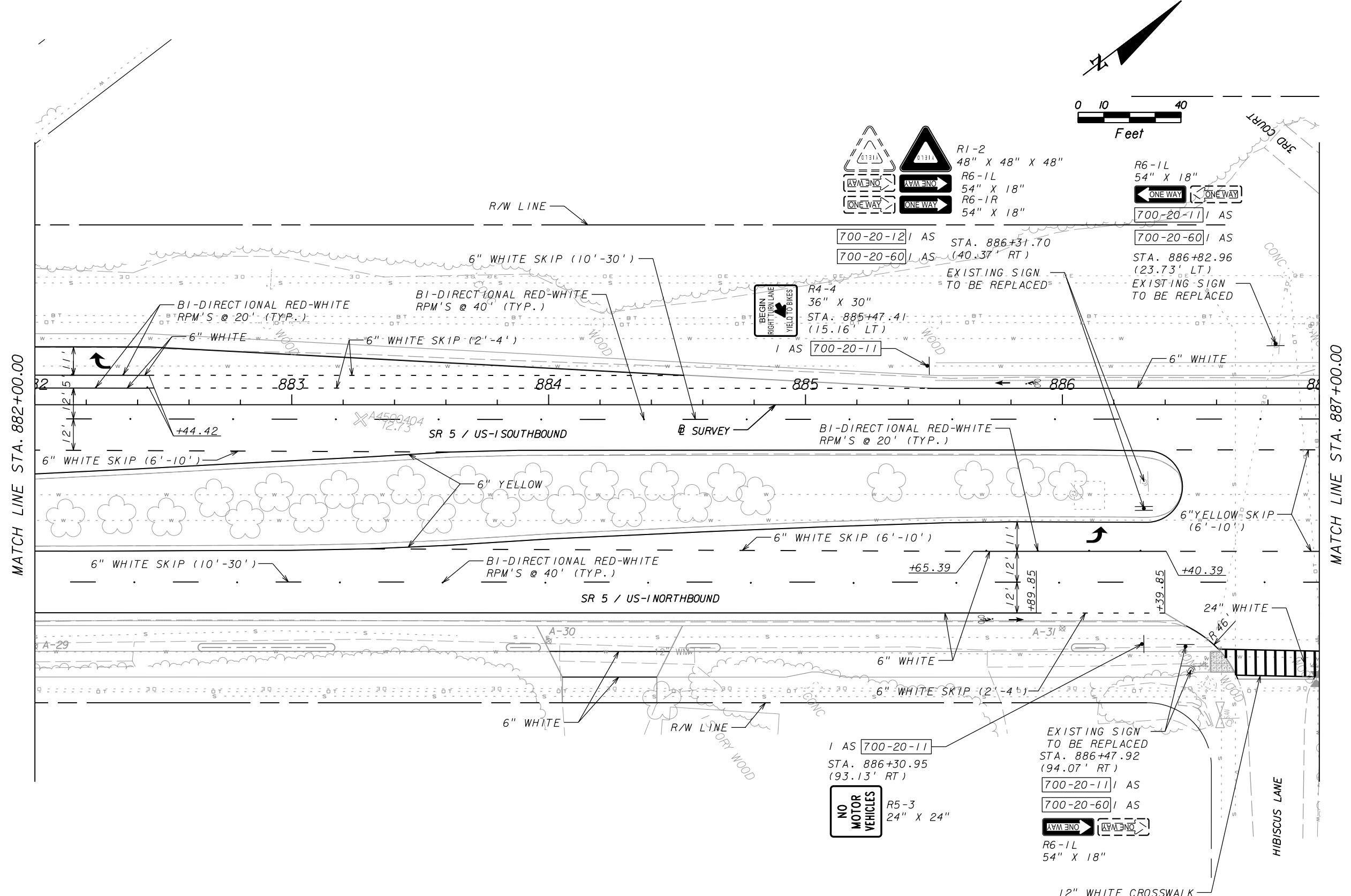


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DATE	BY	DESCRIPTION	DATE	BY			
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					5	MONROE	419859-1-52-01
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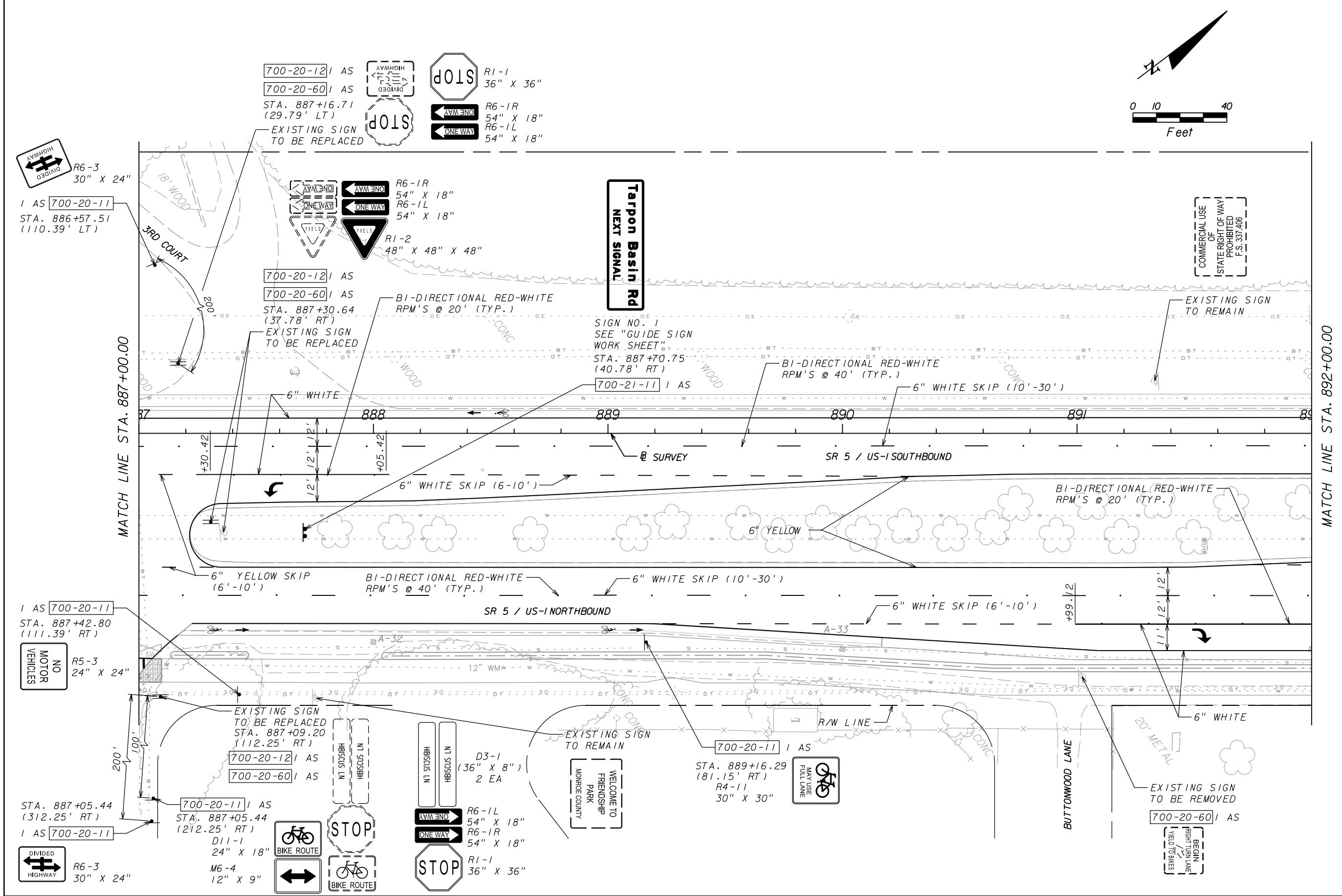
PREPARED BY:
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 13940 SW 136 ST. SUITE 200
 MIAMI, FLORIDA 33186
 FRANK PANELLAS, PE No. 59448
 CERTIFICATE OF AUTHORIZATION 00002294



STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 5 MONROE 419859-1-52-01

**SIGNING & PAVEMENT
MARKING PLANS**

SHEET NO.
S-24



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MIAMI, FLORIDA 33186

FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

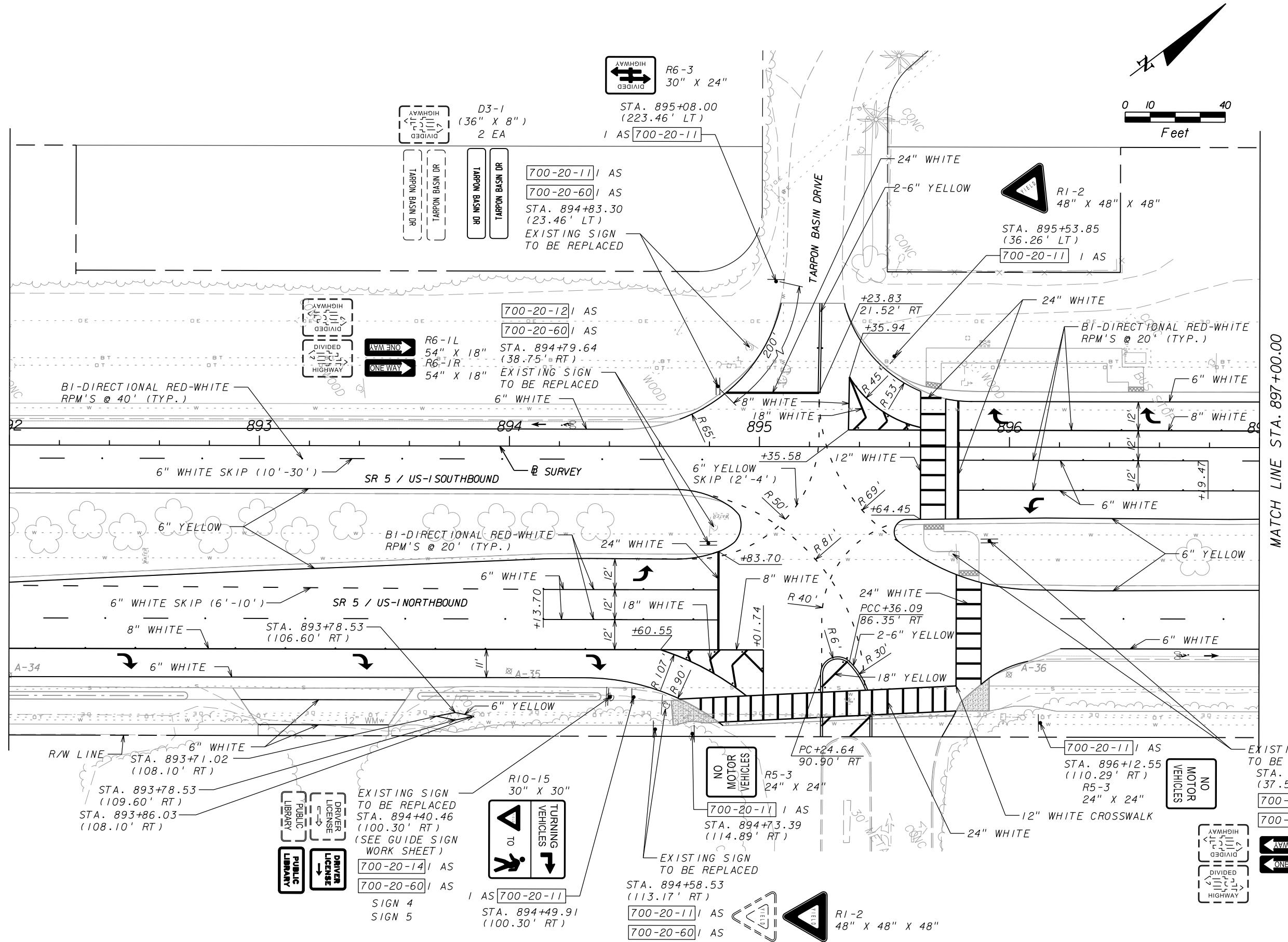
AD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNING & PAVEMENT MARKING PLANS

SHEET
NO.

S-25

MATCH LINE STA. 892+00.00



REVISIONS

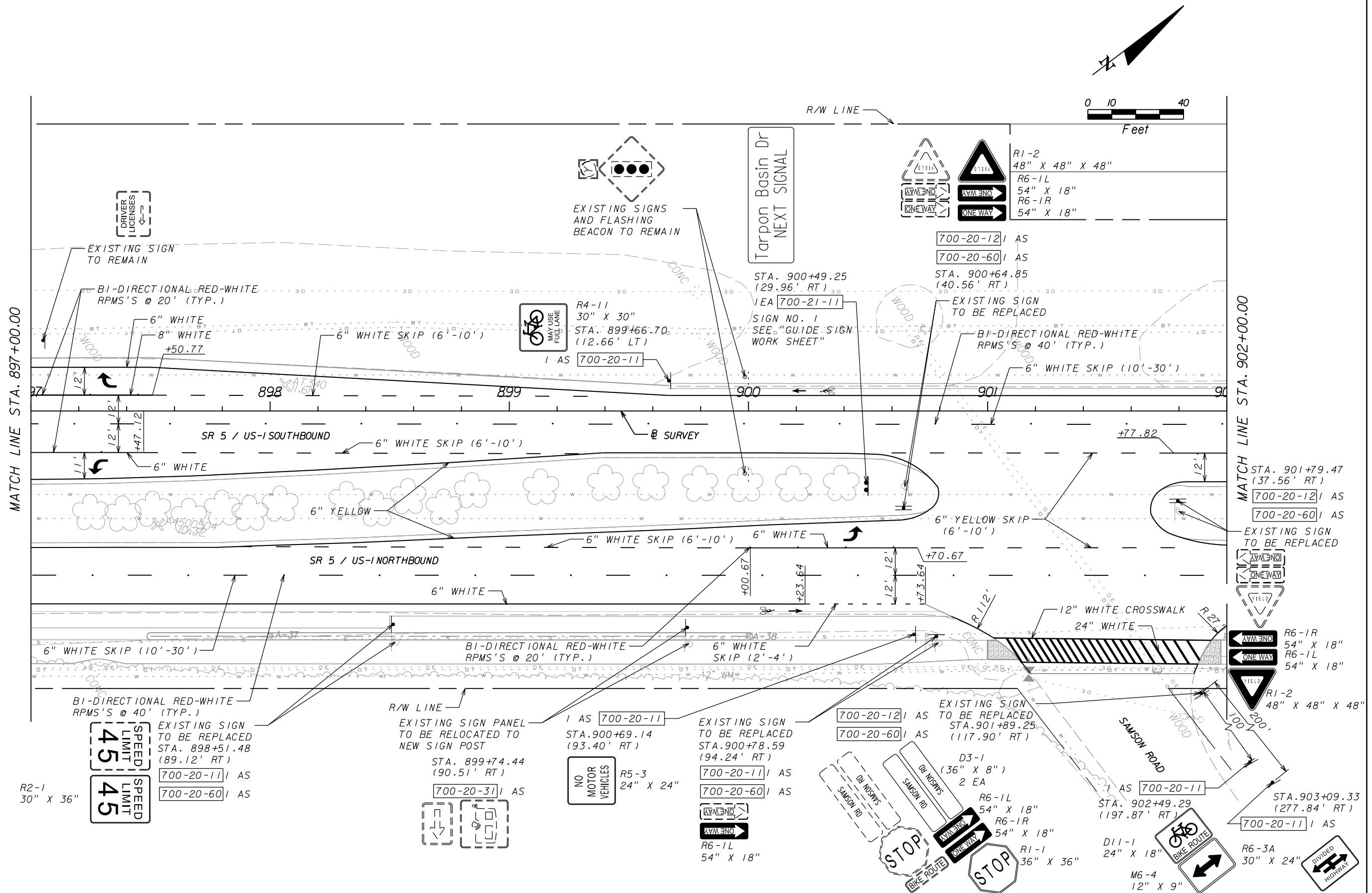
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
5 MONROE 419859-1-52-01

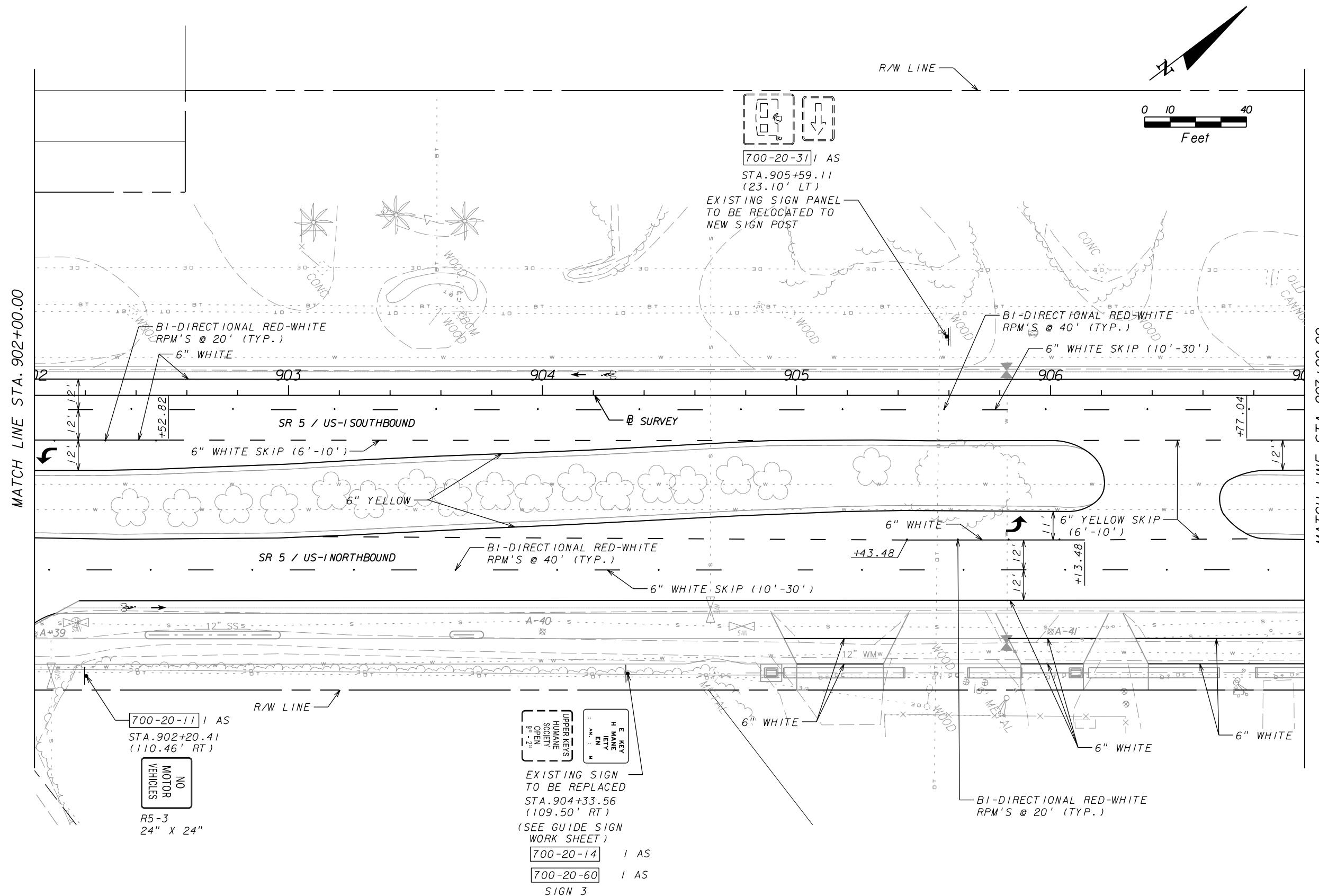
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S-26



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DATE	BY	DESCRIPTION	DATE	BY			
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					5	MONROE	419859-1-52-01
SIGNING & PAVEMENT MARKING PLANS							



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186

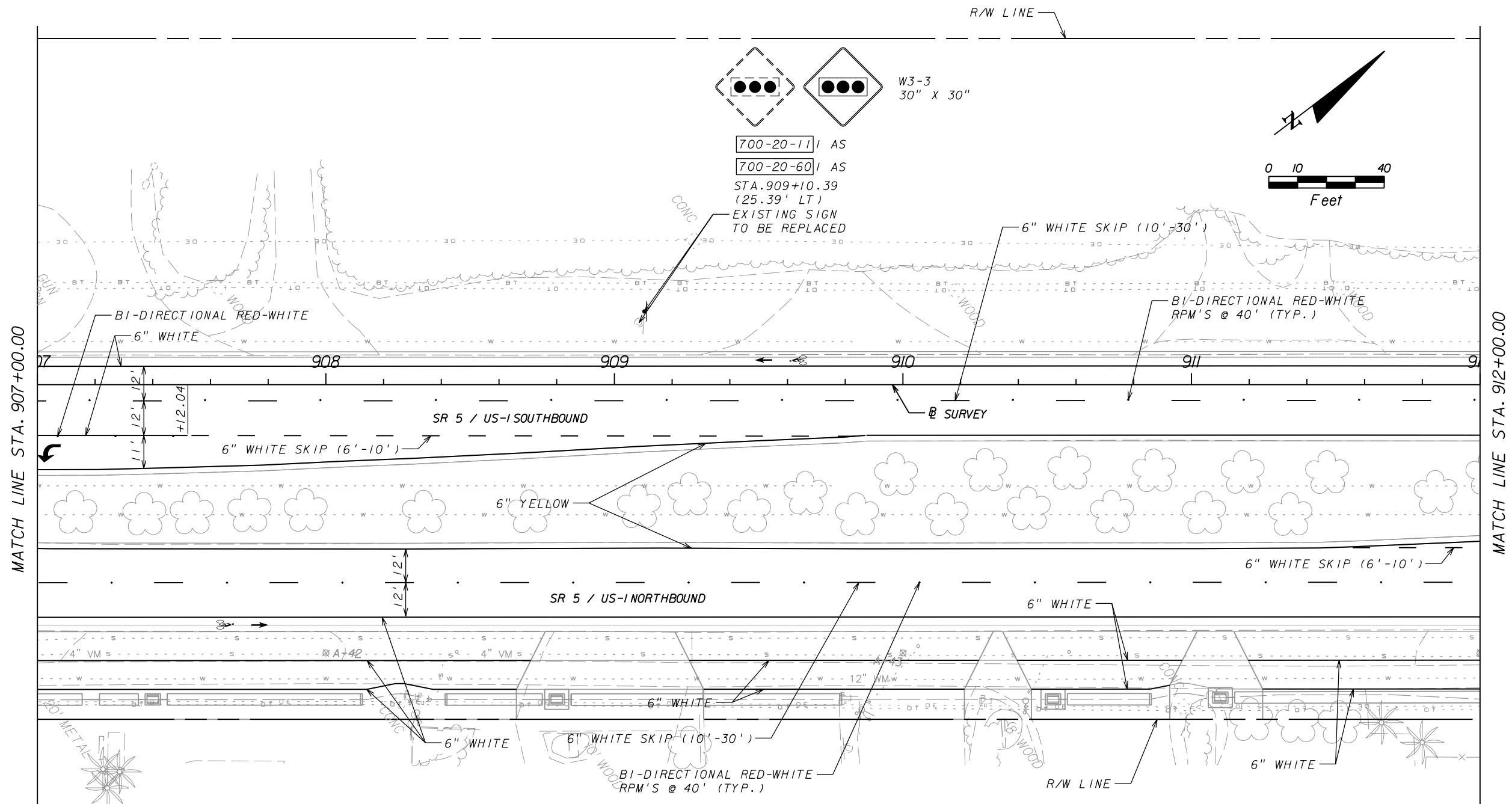
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

AD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNING & PAVEMENT MARKING PLANS

SHEET
NO.



REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION
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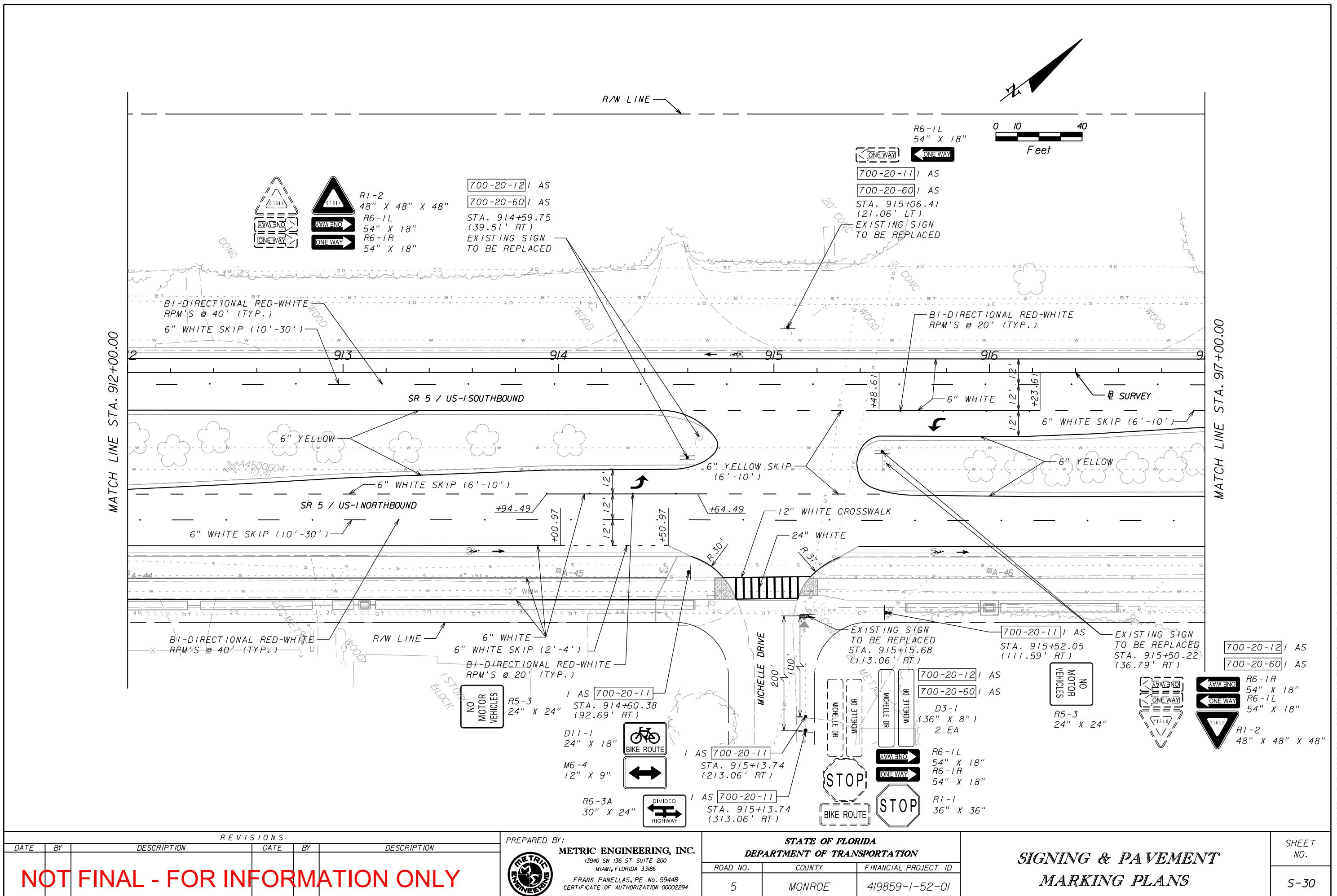
PREPARED BY:
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13940 SW 136 ST. SUITE 200
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

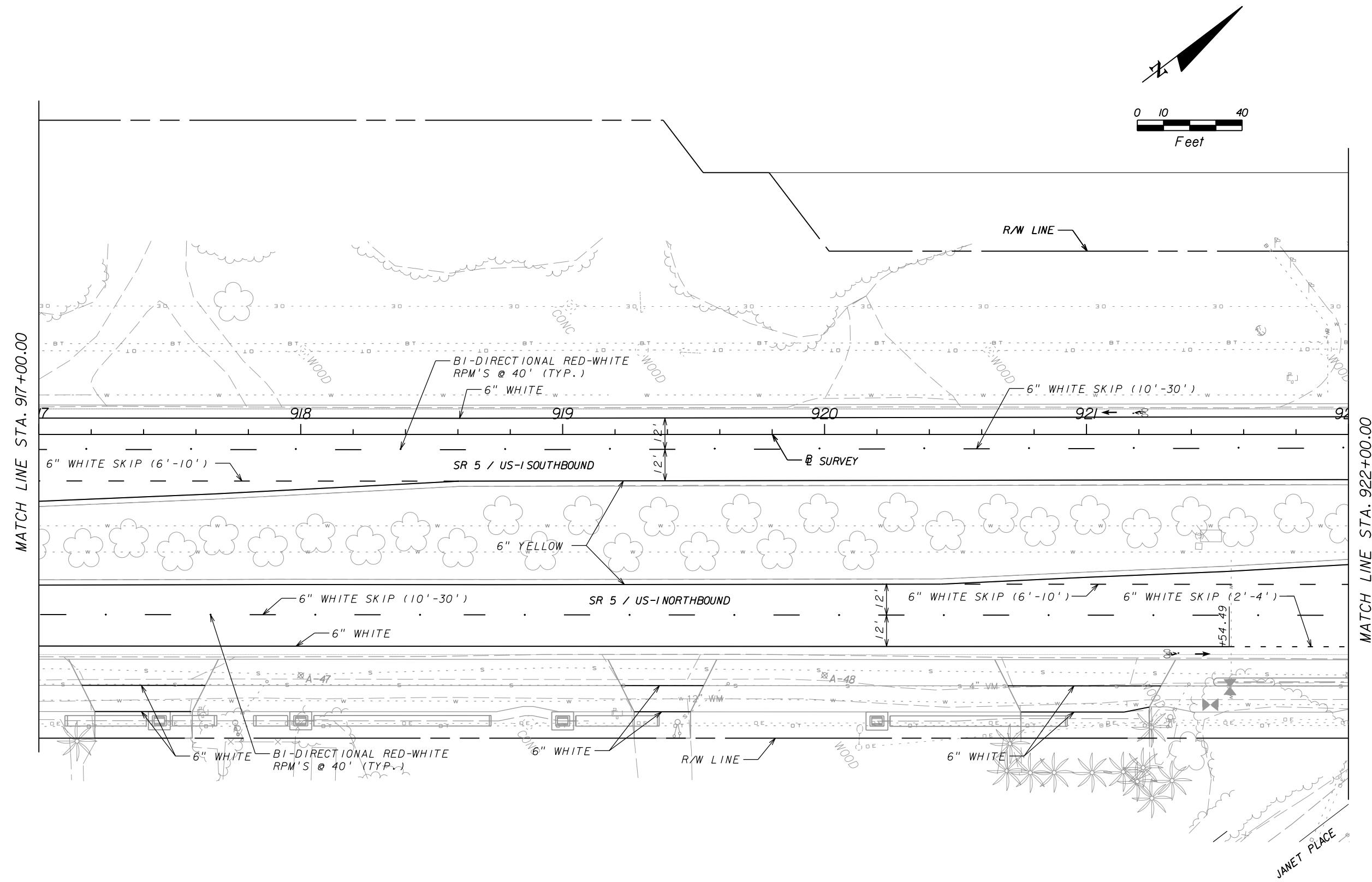
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNING & PAVEMENT
MARKING PLANS

SHEET
NO.
S-29



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 13940 SW 136 ST. SUITE 200
 MIAMI, FLORIDA 33186
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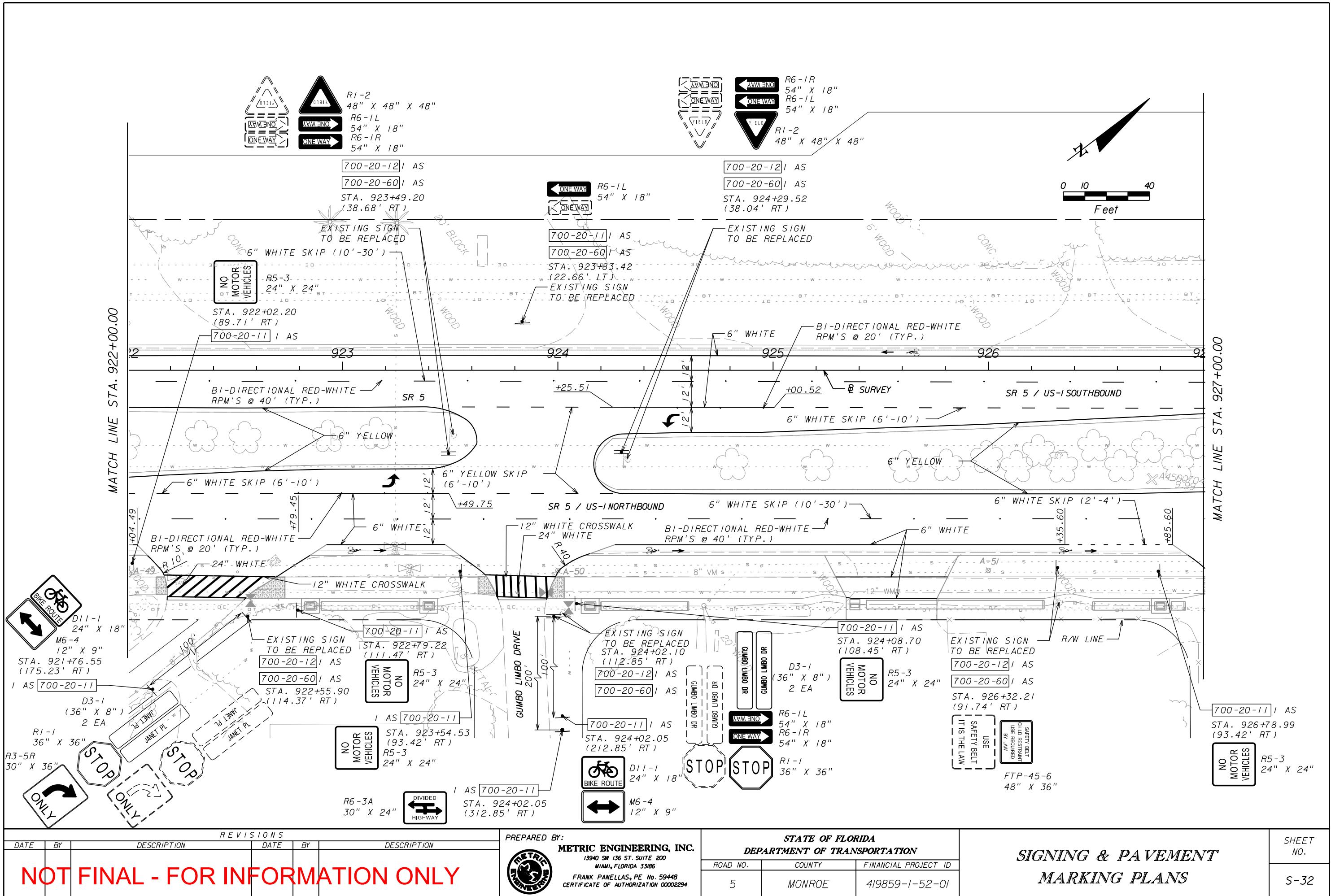


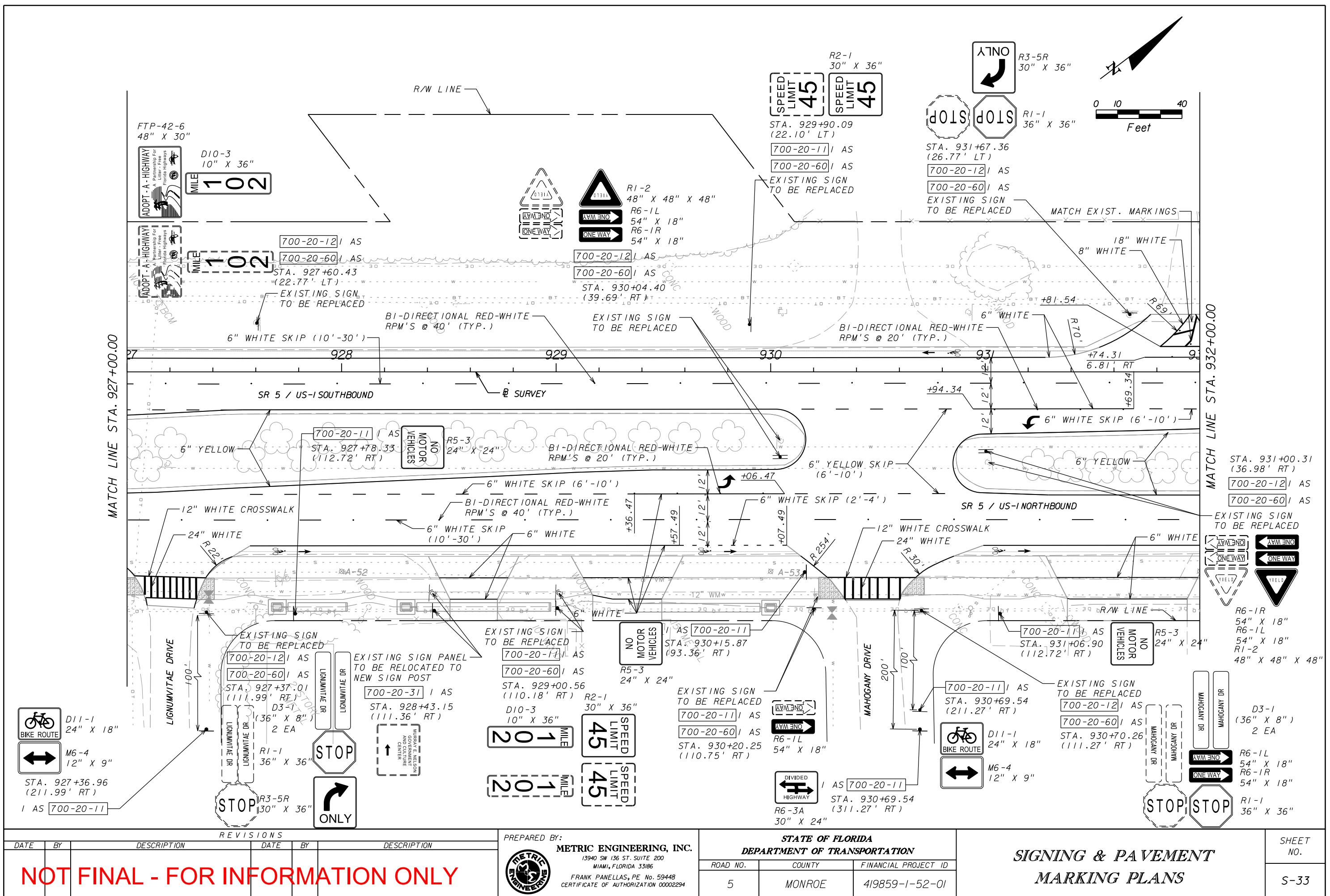
STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

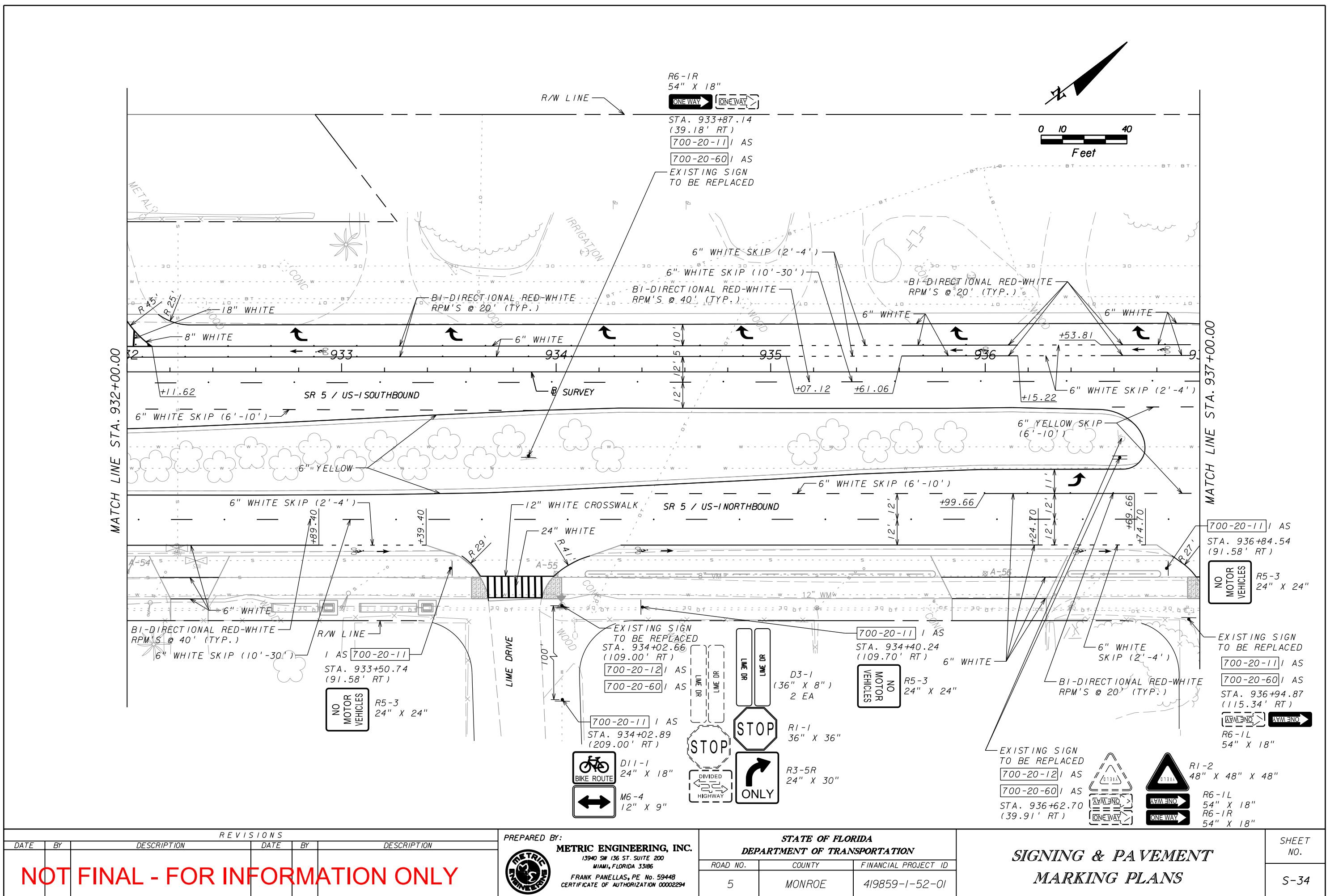
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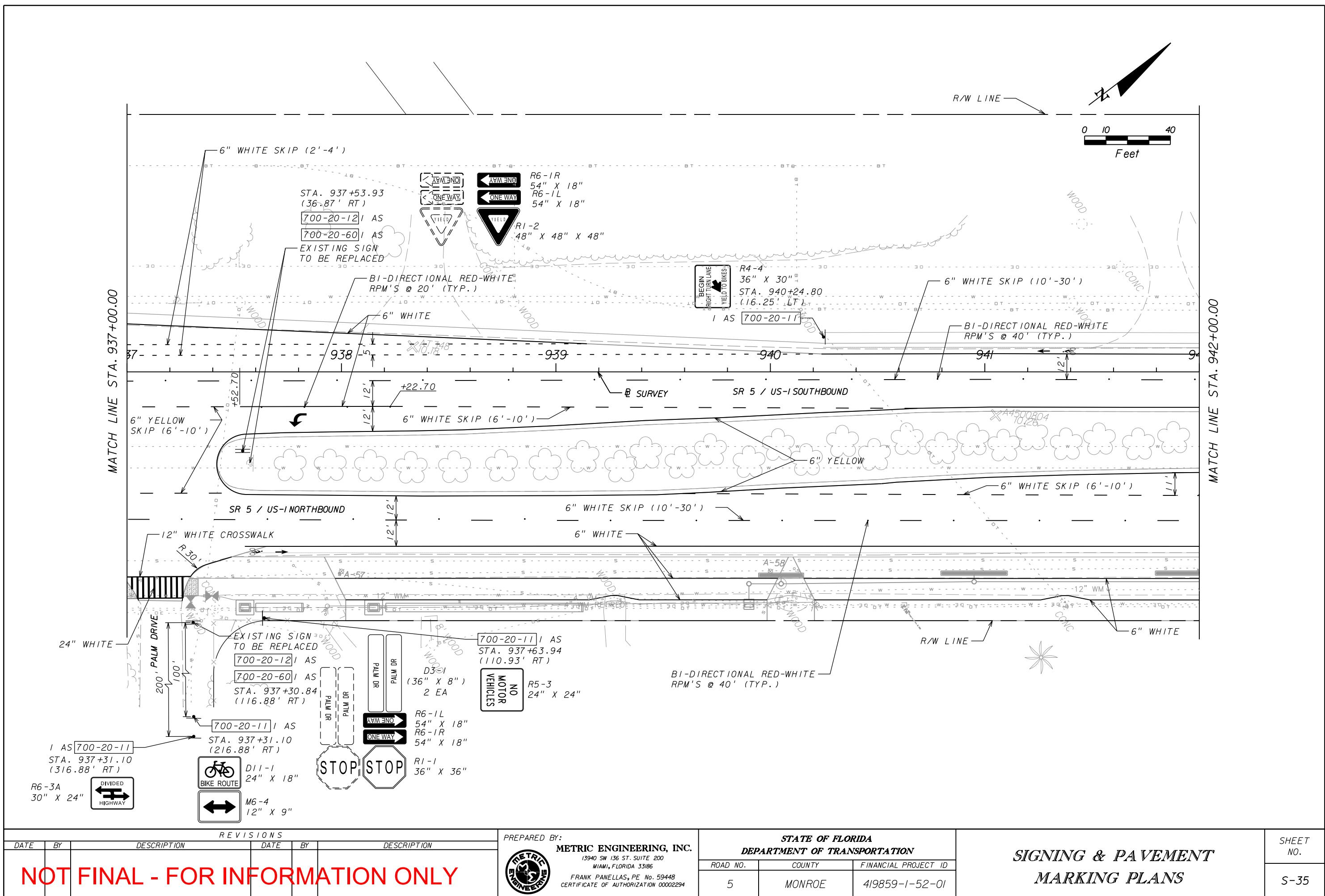
SIGNING & PAVEMENT
 MARKING PLANS

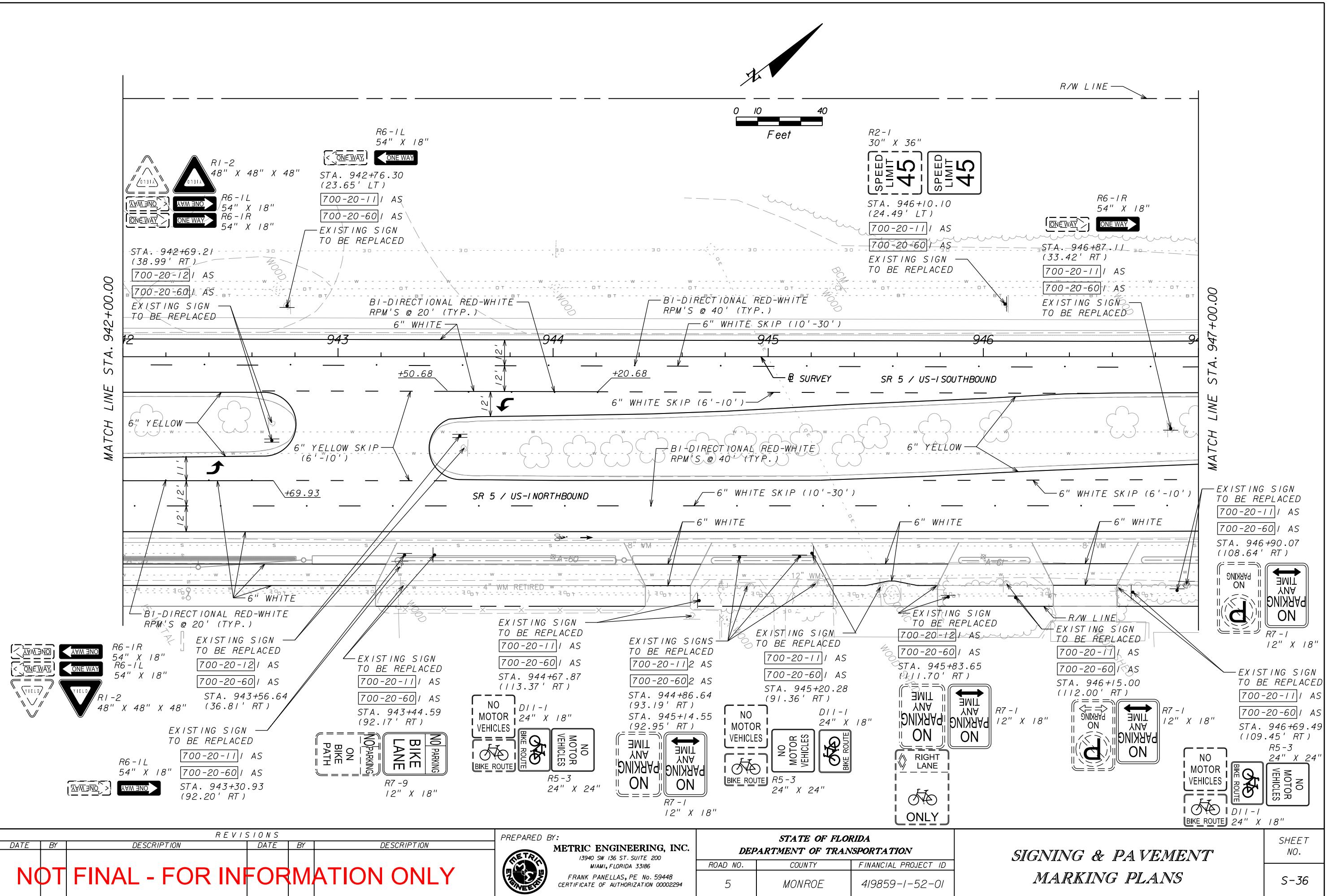
SHEET NO.
 S-31

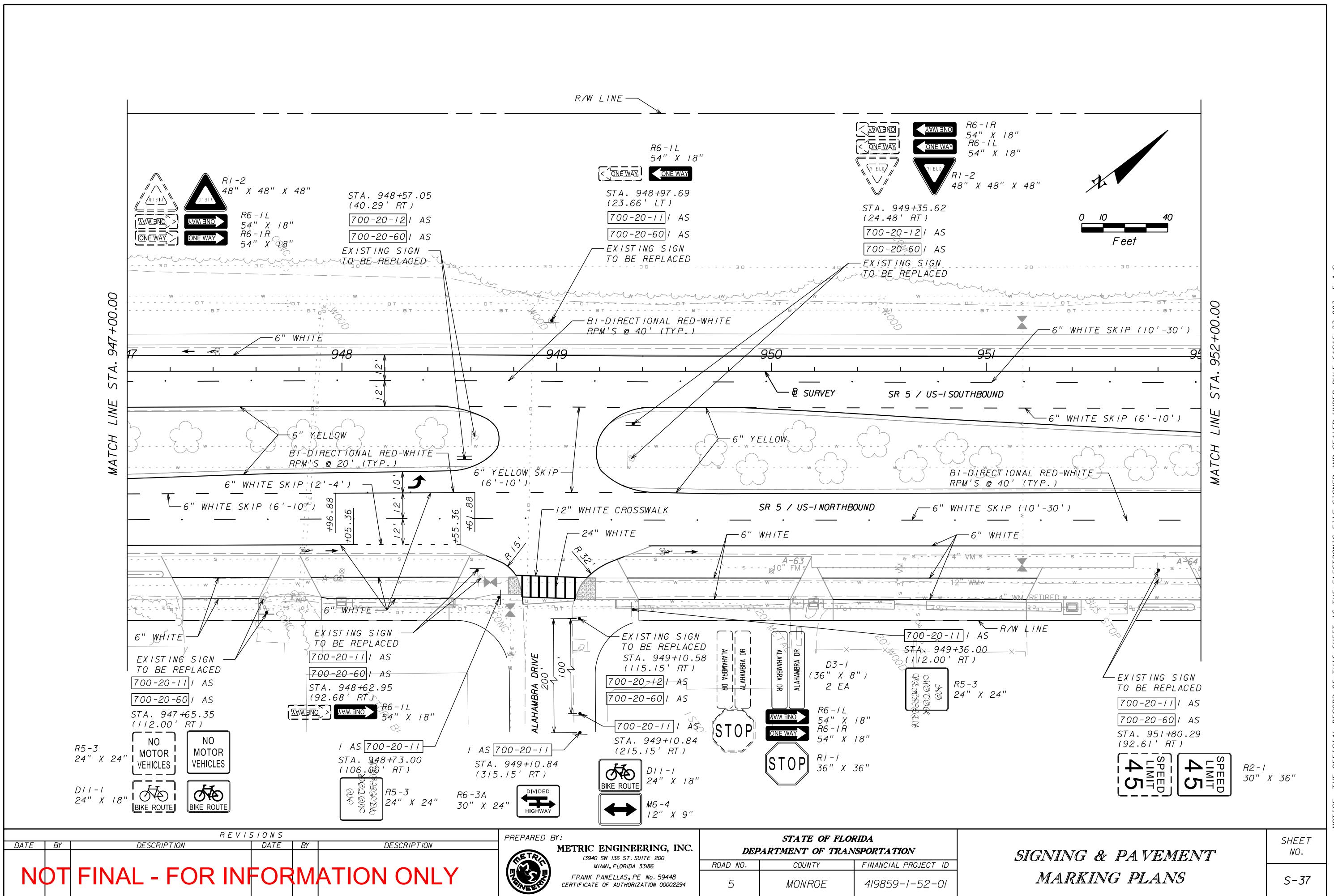




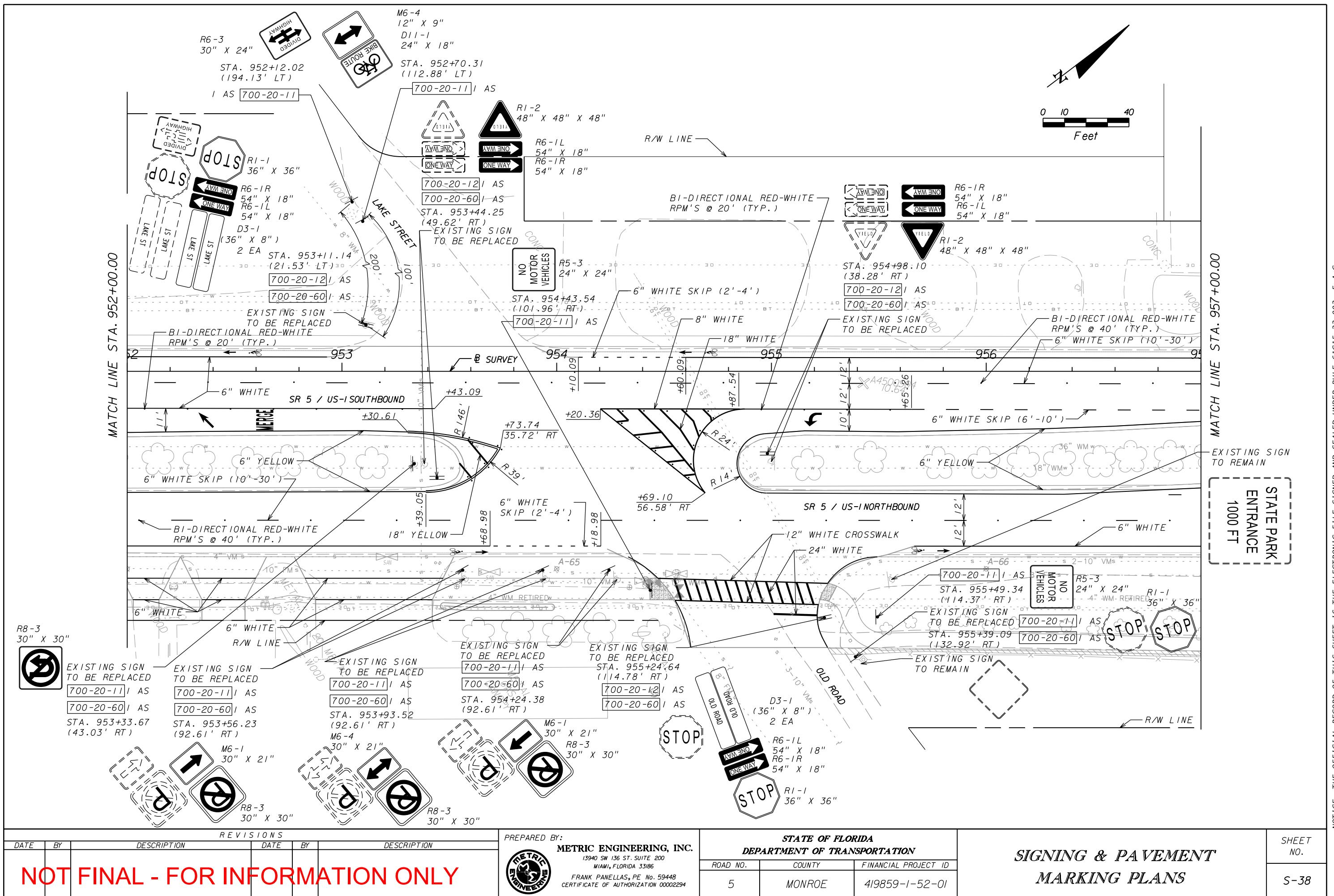


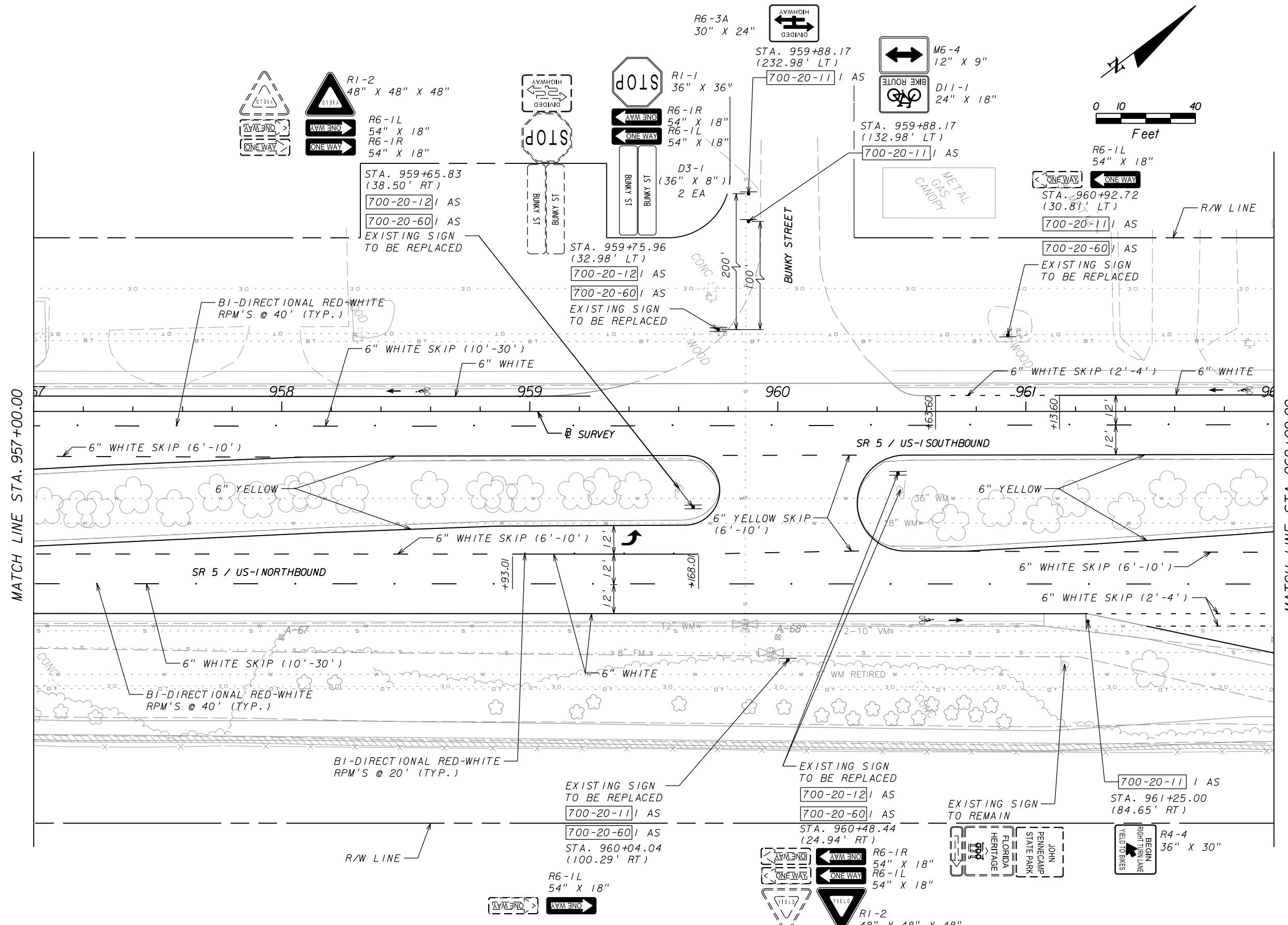






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METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186

FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION NO 00002294

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

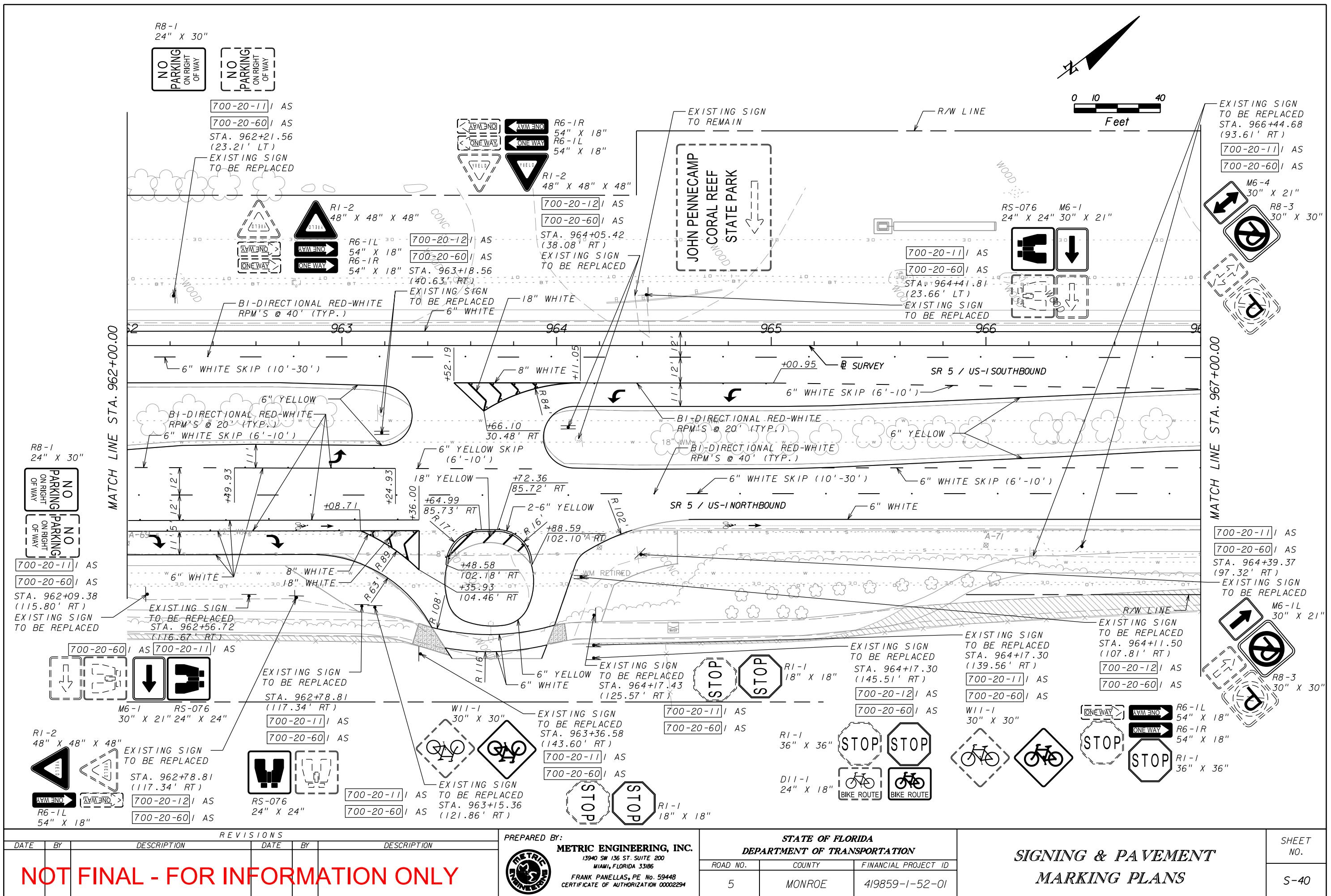
AD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

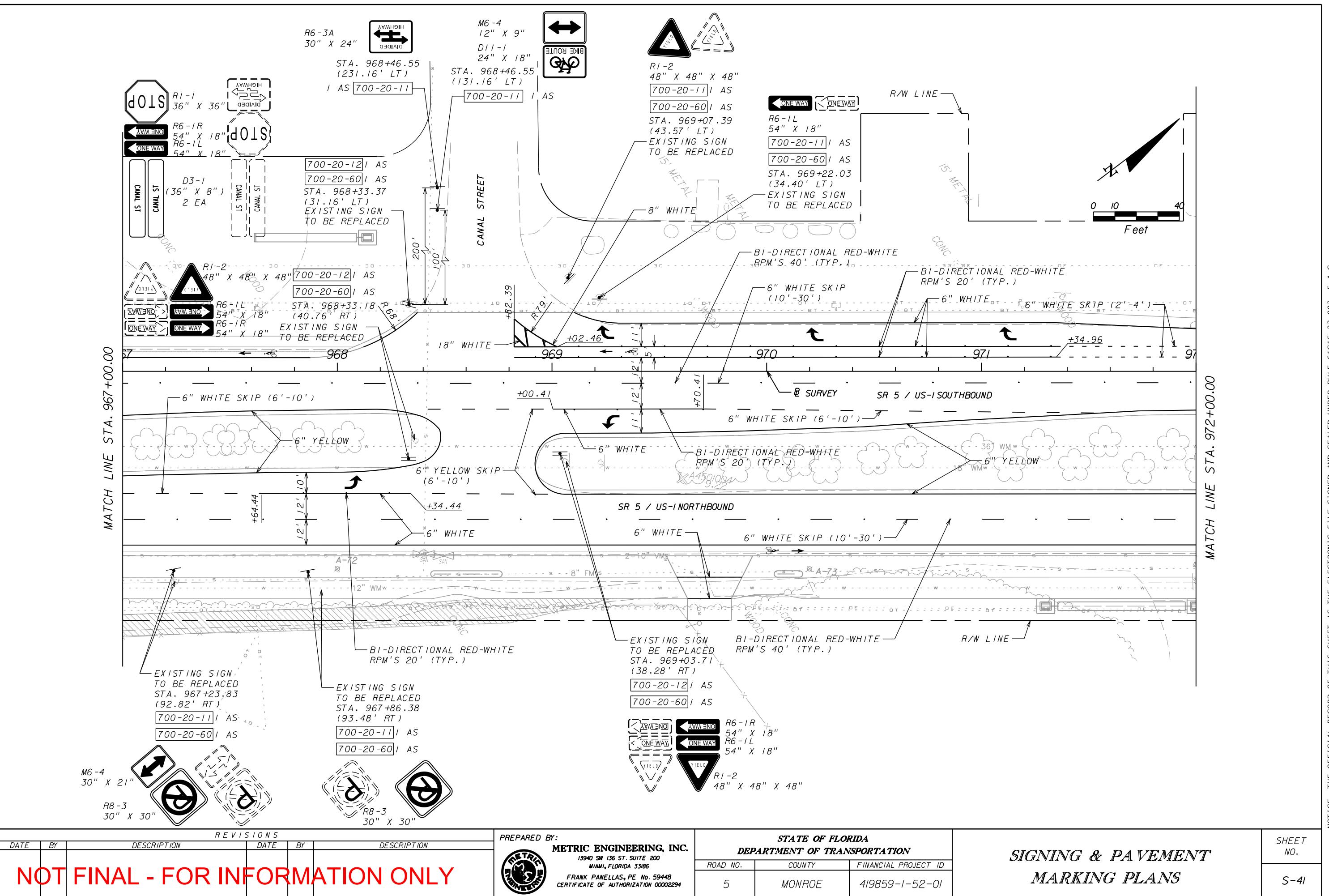
SIGNING & PAVEMENT MARKING PLANS

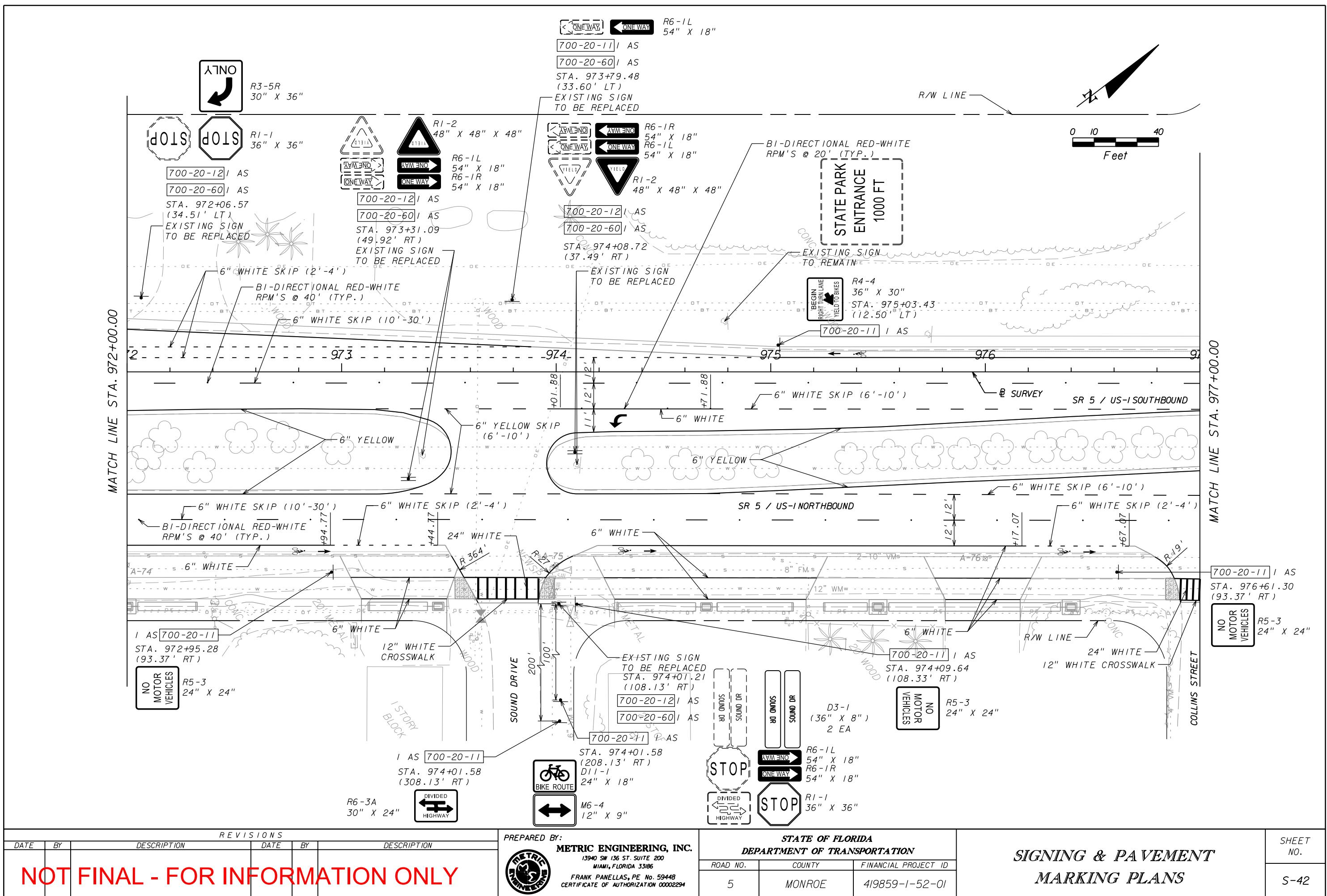
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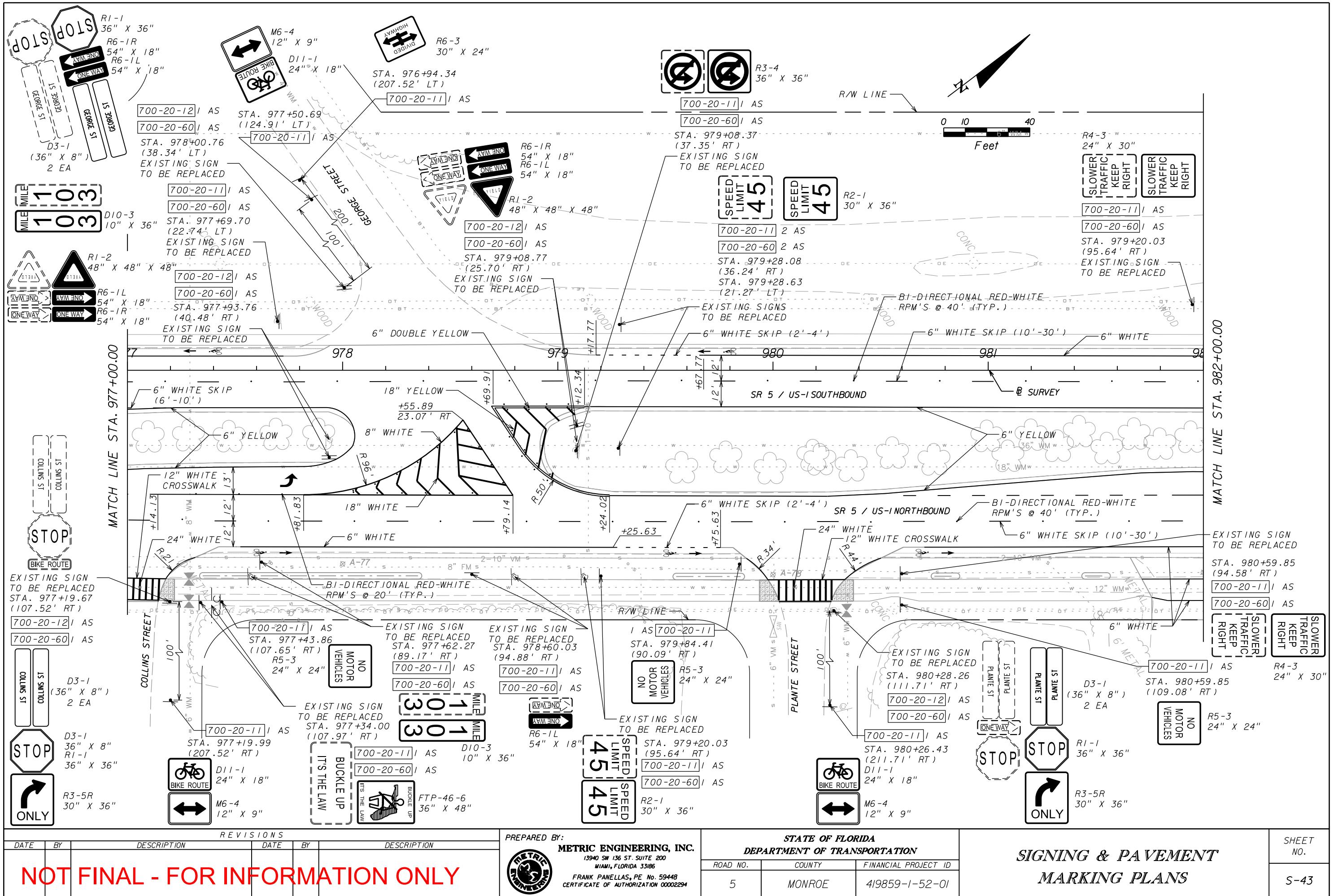
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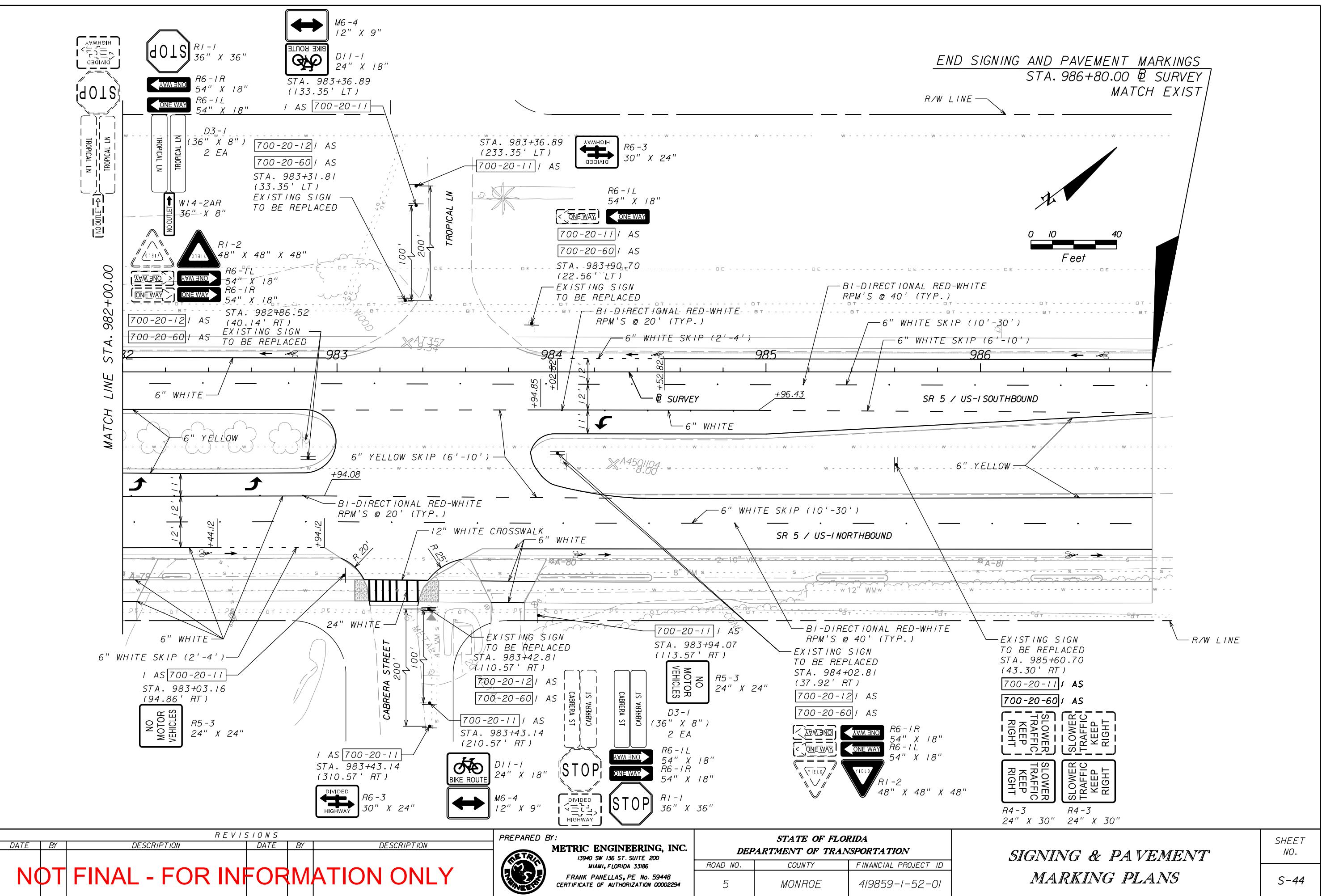
S-39

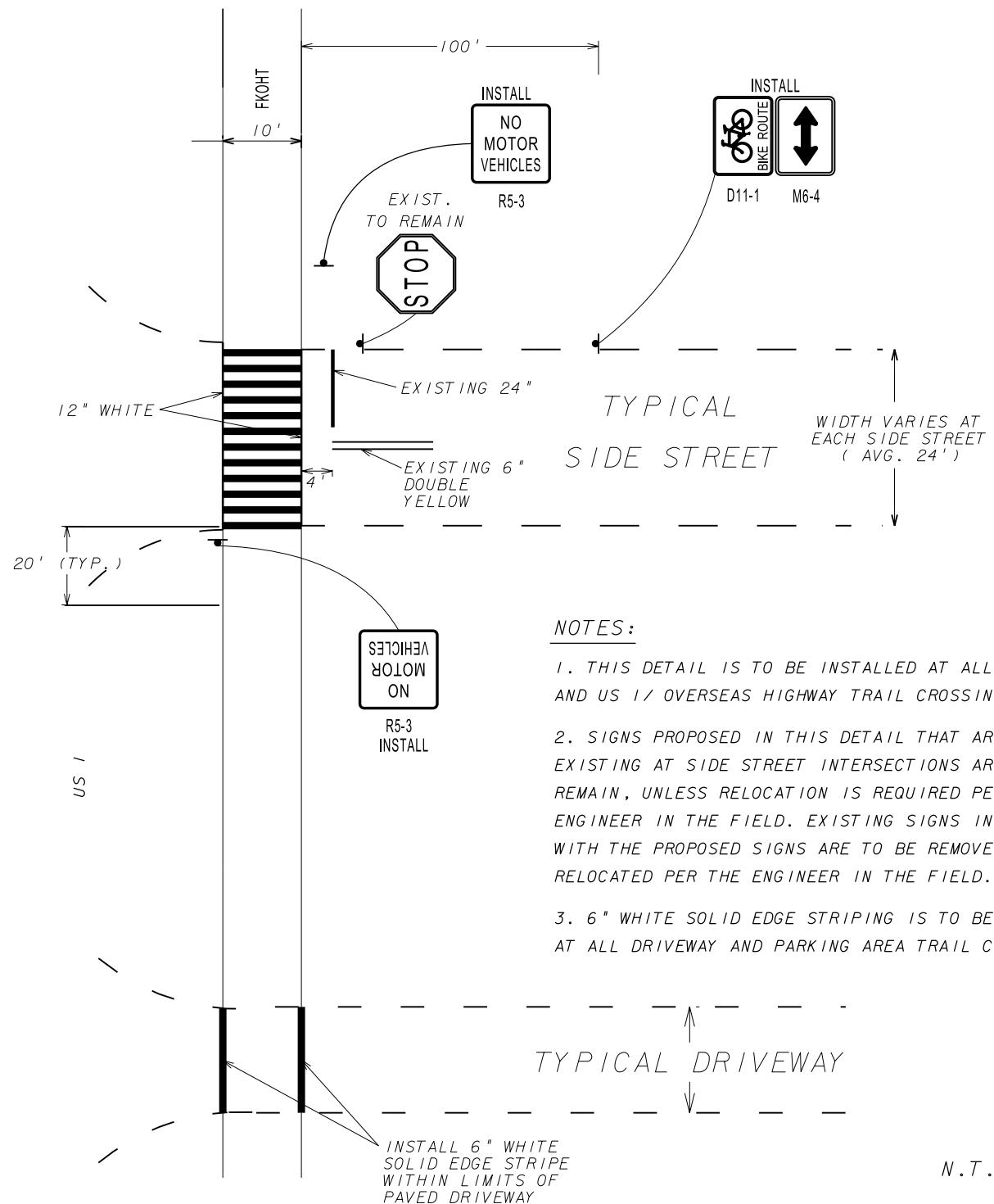












TYPICAL TRAIL CROSSING OF SIDE STREET
SIGNING & PAVEMENT MARKING INSTALLATION DETAIL

REVISIONS		
DATE	BY	DESCRIPTION
DATE	BY	DESCRIPTION
		NOT FINAL - FOR INFORMATION ONLY



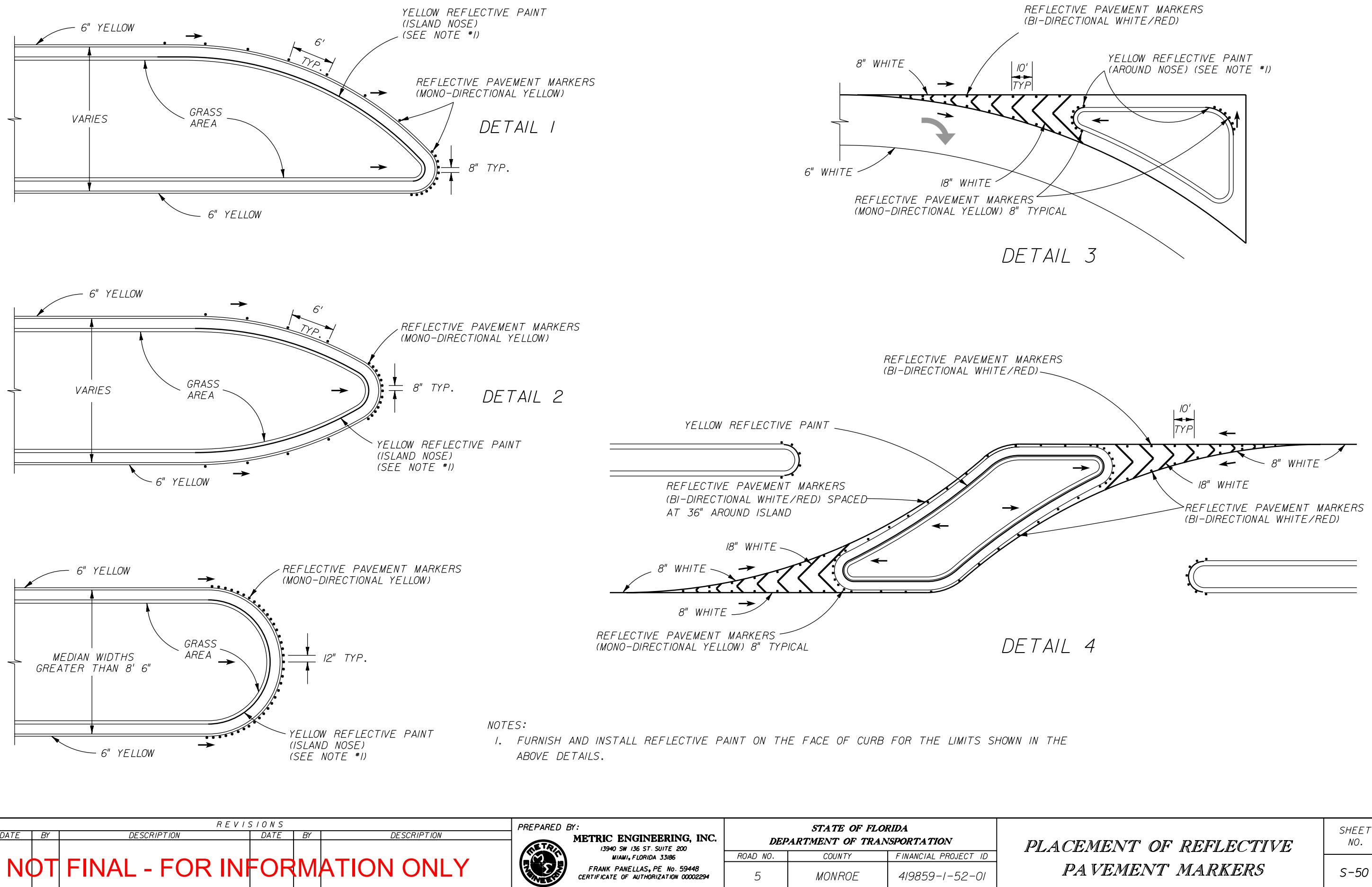
PREPARED BY:
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNING AND MARKING
SPECIAL DETAILS

SHEET NO.
S-45



STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 419859-1-52-01

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	SIGNALIZATION NOTES
T-4 Thru T-5	SIGNALIZATION PLAN

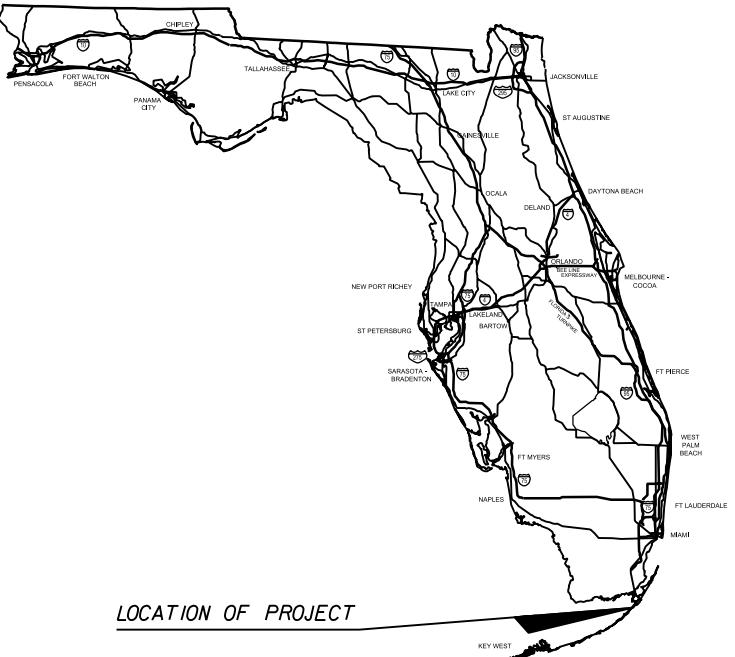
MONROE COUNTY (90060)

STATE ROAD NO. 5

US 1/OVERSEAS HWY FROM NORTH OF ATLANTIC AVENUE TO HIALEAH LANE

SIGNALIZATION PLANS

LOCATION OF PROJECT



SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

FRANK PANELLAS, P.E.
METRIC ENGINEERING, INC.
13940 S.W. 136th STREET
MIAMI, FLORIDA 33186
TEL. (305) 235-5098

PLANS PREPARED BY:



- ENGINEERS
- PLANNERS
- SURVEYORS

METRIC ENGINEERING, INC.
13940 S.W. 136th STREET
SUITE 200
MIAMI, FLORIDA 33186
TEL. (305) 235-5098
FAX. (305) 251-5894
VENDOR # F-59-1685550
FLORIDA CERT. NO. EB-0002294
NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

KEY SHEET REVISIONS	
DATE	DESCRIPTION

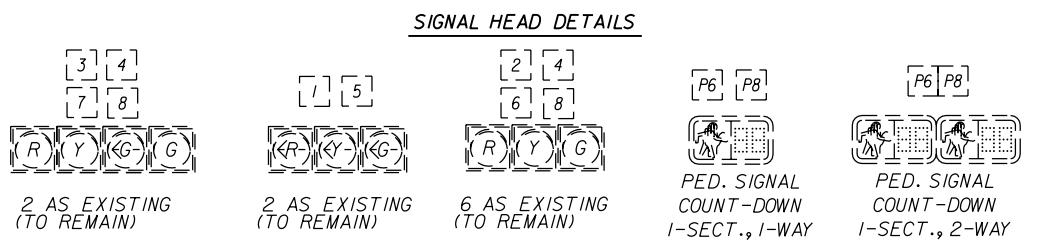
SIGNALIZATION PLANS
ENGINEER OF RECORD: FRANK PANELLAS, PE

P.E. NO.: 59448

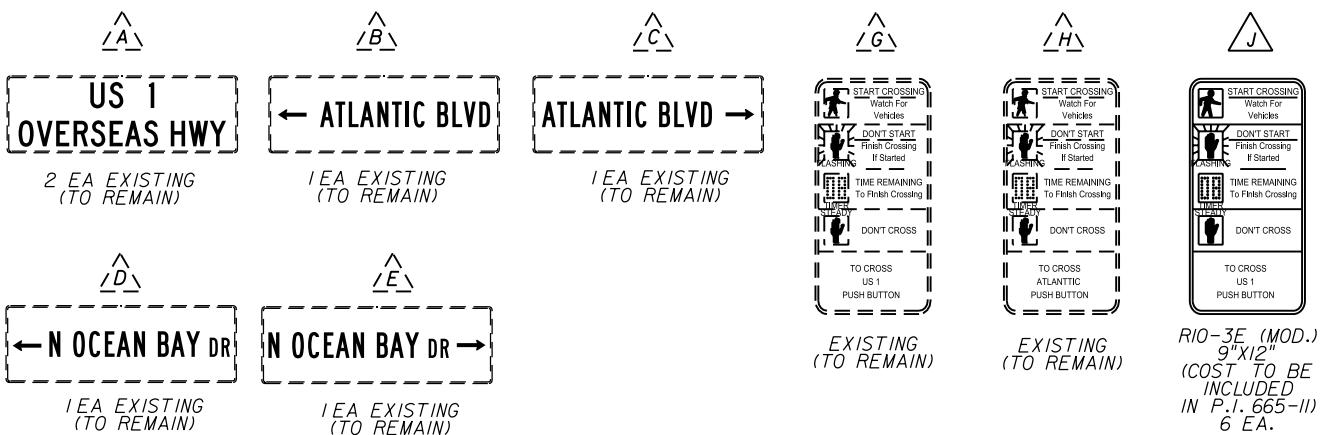
FISCAL YEAR	SHEET NO.
13	T-1

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FDOT PROJECT MANAGER: CHRISTOPHER TAVELLA, P.E.



SIGN DETAILS



CONTROLLER OPERATION

MODEL 170 CONTROLLER ASSEMBLY
WITH COORDINATION CAPABILITIES.
MAJOR STREET: US 1/SR5 - OVERSEAS HIGHWAY
MINOR STREET: ATLANTIC BOULEVARD/N. OCEAN BAY DR

SOP AS SHOWN

PHASE 2 AND 6 RECALL

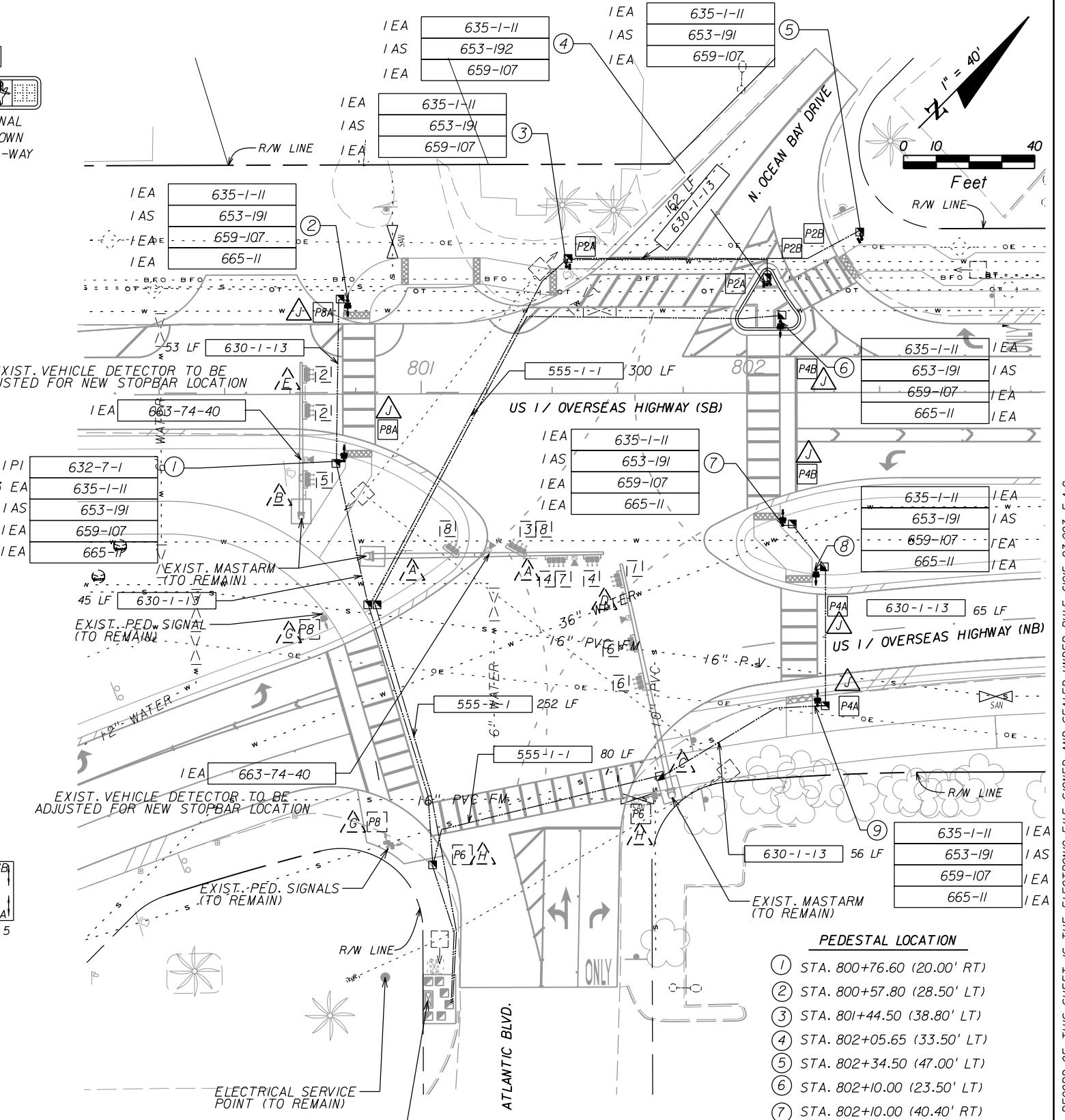
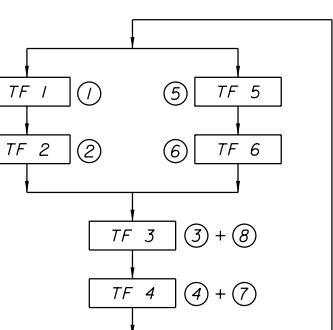
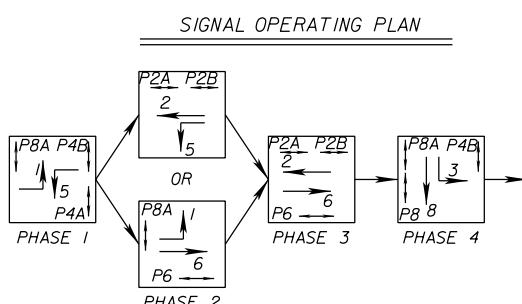
FLASHING OPERATIONS:

MOVEMENTS 2+6 YELLOW

MOVEMENTS 3+8, 4+7 AND 1+5 RED

ALL MOVEMENTS ARE ACTUATED AND CONTROLLED BY VIDEO DETECTION.
SIGN F SHALL FLASH YELLOW WHEN MOVEMENT 6 IS YELLOW AND RED AND
SHALL FUNCTION THE SAME AS EXISTING OPERATION.

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	12	8	8	8	12		
EXTENSION	3.5	3.5	3.5	3.5	3.5	3.5		
MAXIMUM GREEN 1	8	40	14	12	15	40		
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4	4	4	4	4	4		
ALL RED	2	2	2	2	2	2		
PEDESTRIAN WALK		4	7	5		4		
PED. CLEARANCE		20	7	7		20		
RECALL	OFF	MIN	PED	PED	OFF	MIN		



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PREPARED BY:



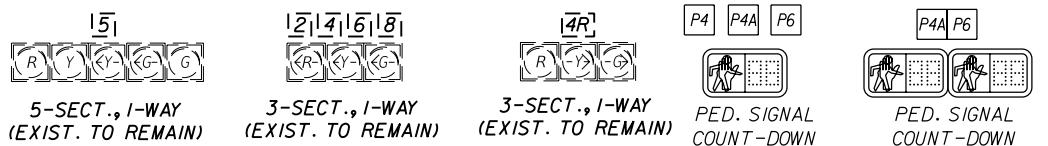
METRIC ENGINEERING, INC.
13940 SW 136 ST. SUITE 200
MIAMI, FLORIDA 33186
FRANK PANELLAS, PE No. 59448
CERTIFICATE OF AUTHORIZATION 00002294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNALIZATION PLAN

SIGNAL HEAD DETAILS



SIGN DETAIL



CONTROLLER OPERATION

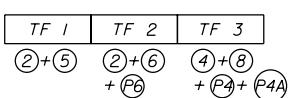
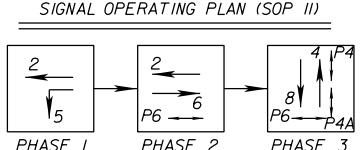
MODEL NEMA TYPE D4-4 CONTROLLER ASSEMBLY
MAJOR STREET: US 1/SR5- OVERSEAS HIGHWAY
MINOR STREET: TARPON BASIN DRIVE
SOP: II

PHASE 2 AND 6 RECALL

FLASHING OPERATIONS:

MOVEMENTS 2+6 YELLOW

MOVEMENTS 3+8, 4+7 AND 1+5 RED
DELAY DETECTOR ON LOOP 4R AND LOOP 8.



DETECTORS FOR LOOPS

DETECTORS FOR LOOPS				
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	NO. OF EXIST. DETS.	DELAY TIME (SEC)
L-1	1		1	
L-2	2		1	
L-4	2		1	
L-5	1		1	
L-6	2		1	
L-8	1		1	

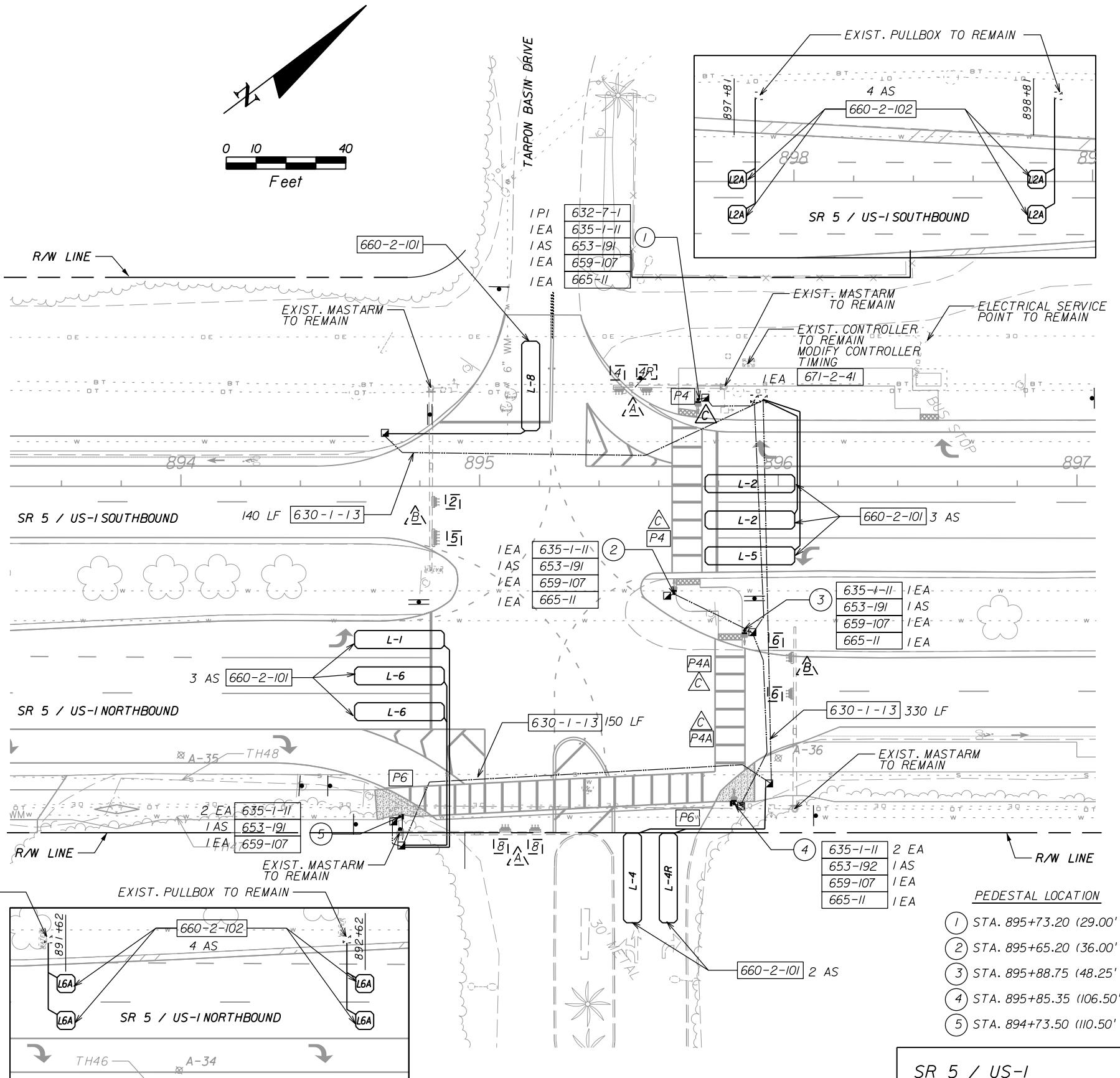
CONTROLLER TIMINGS

TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
	MINIMUM GREEN	8	20	-	8	8	20	-	8
	EXTENSION	3.5	3.5	-	3.5	3.5	3.5	-	3.5
	MAXIMUM GREEN 1	14	60	-	36	14	60	-	36
	MAXIMUM GREEN 2	-	-	-	-	-	-	-	-
	YELLOW CLEARANCE	4	4	-	4	4	4	-	4
	ALL RED	2	2	-	2	2	2	-	2
	PEDESTRIAN WALK	-	-	-	5	-	-	-	-
	PED. CLEARANCE	-	-	-	20	-	-	-	-
	RECALL	OFF	MIN	-	OFF	OFF	MIN	-	OFF

6:00-23:00
23:00-6:00: 2+6 YELLOW FLASH
OTHERS RED

REVISIONS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
	NOT FINAL - FOR INFORMATION ONLY		



SR 5 / US-1
AT TARPON BASIN DRIVE

SHEET
NO.
T-5

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NO.	COUNTY	FINANCIAL PROJECT ID
5	MONROE	419859-1-52-01

SIGNALIZATION PLAN

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61015-23 .003, F.A.C.