**Miami-Dade County** Department of Transportation and Public Works

VOLUME III of III

## PLANS FOR:

Improvements to SW 87 Avenue Bridge Over Canal C-100

Miami-Dade County

Small Business Enterprise-Construction Program (SBE-CONST.): SBE–Con 22.01% Small Business Enterprise-Services Program (SBE-S): SBE-S 0.26% **DTPW Capital Improvements Engineer:** Katherine Fernandez **RPQ Issue Date:** May 26, 2022

Miscellaneous Construction Contracts (MCC) Program: MCC 7360 Plan -CICC 7360-0/08, Request for Price Quotation (RPQ) No. 20220010

# SET # 1 OF 2 SETS





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5	SUMMARY OF QUANTITIES AND PAY ITEM NOTES
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7	SUMMARY OF DRAINAGE STRUCTURES
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A-9 - A-11*	REPORT OF CORE BORINGS
B-2*	ROADWAY SOIL SURVEY
UTV-1*	SUMMARY OF VERIFIED UTILITIES

\*These sheets are contained in a separate digitally signed and sealed document.

### GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

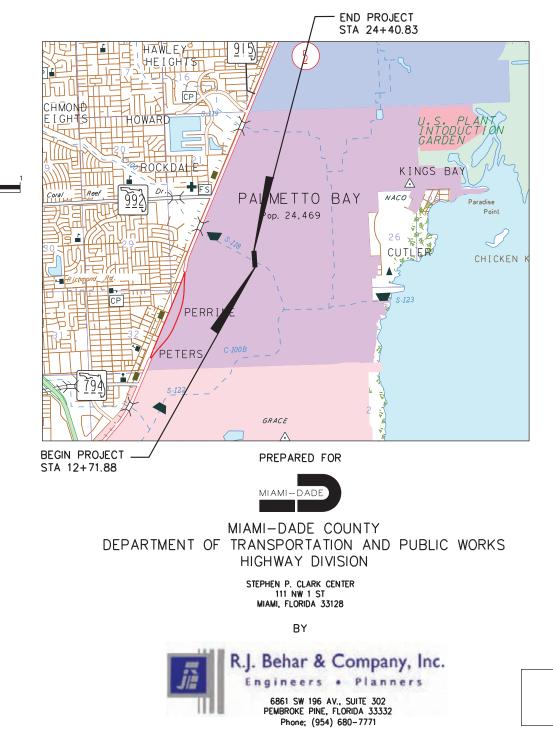
Standard Plans for Bridge Construction are included in the Structures Plans Component.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3, THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC STANDARD PLANS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.

dways call 811 two full business days before you dig Sunshine811.com

PLANS FOR PROPOSED IMPROVEMENTS TO SW 87th AVENUE OVER THE C-100 CANAL FROM SW 164 ST TO SW 163 TERR.

### MIAMI-DADE COUNTY PROJECT NO. 20210098



FINAL PLANS MAY

2	022	

ASSISTANT DIRECTOR
HIGHWAY DIVISION
СНЕСК
DRAWN
SHEET _1OF81

RECOMMENDED		
	ASSISTANT	DIRE

COUNTY ENGINEER

### APPROVED

LENGTH (	OF JOB	
	LIN. FT.	MILES
ROADWAY	1,102.61	0.209
BRIDGE	66.34	0.012
GROSS LENGTH OF JOB	1,168.95	0.221
EXCEPTIONS	N/A	N/A
NET LENGTH OF JOB	1,168.95	0.221

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

NOTE:

#### THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23004, F.A.C. 3-57.

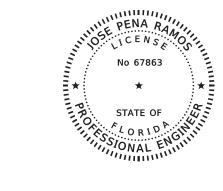
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ENGINEER OF RECORD: Digitally signed by Paola Paola Riveros Date: 2022.05.13 16:18:16 -04'00'

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ENGINEER OF RECORD: Digitally signed by Jose A Pena Jose A Pena Ramos Date: 2022.05.13 16:01:24 Ramos -04'00'

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ENGINEER OF RECORD: Carmelo Ramos Digitally signed by Carmelo Ramos Date: 2022.05.13 16:55:41 -04'00'

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					REVISIONS					R.J. Behar & Company, Inc.		NAME	DATE		NAME	DATE	
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										6861 SW 196 Avenue, Suite 302 Pembroke Pines, Florida 33332	CHECKED BY			CHECKED BY	.	i	ì
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MIAMI-DADE						TATIO	)N A	AND	
	PUBLIC	WORKS	HIGH	NAY	DIVISION				
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ROJECT NO.	20210098				SHEET	2	OF	81	

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23004, F.A.C. 1-10 (LANDSCAPE).

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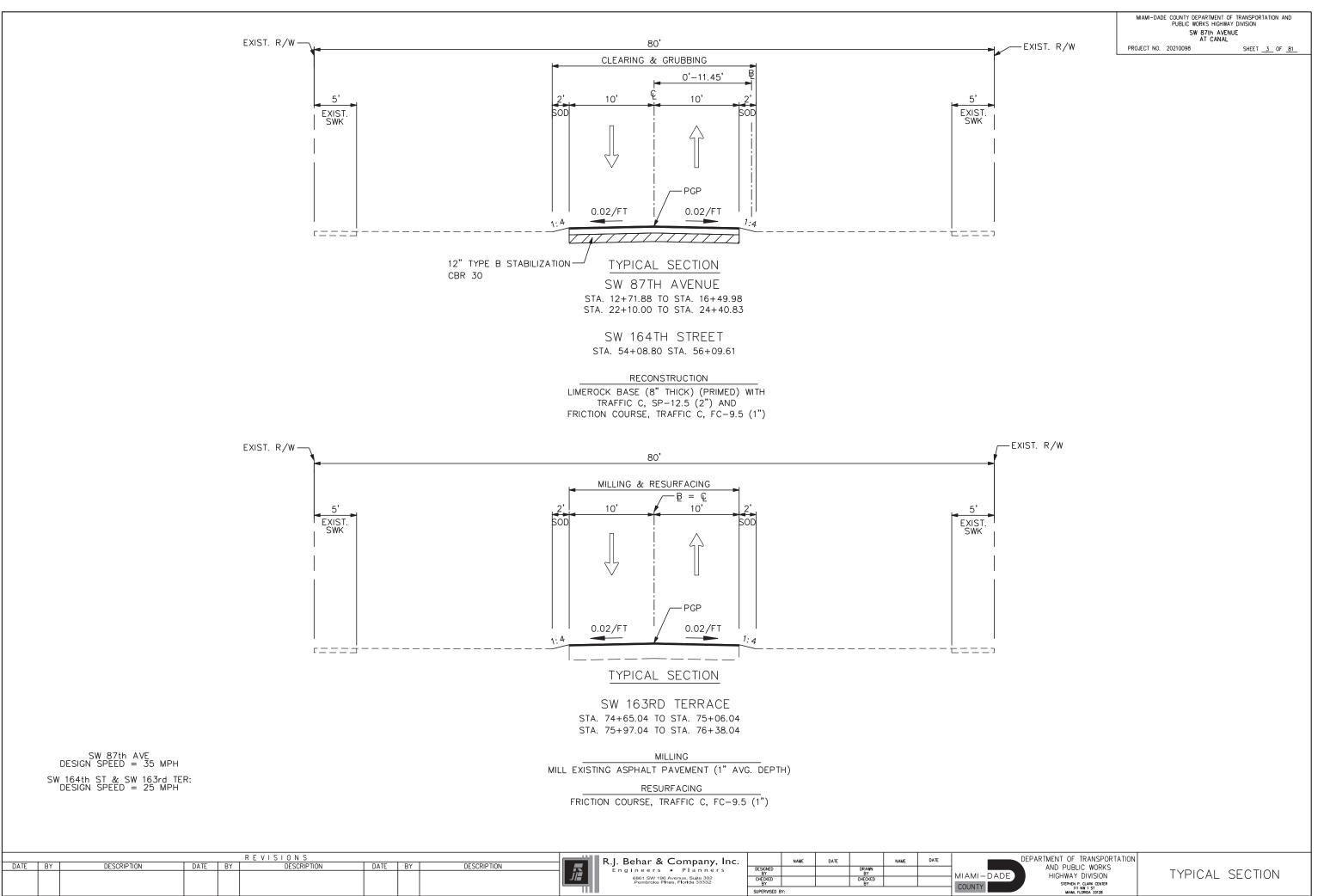
Digitally signed by Kenneth Eric Gardner DN: c=US, st=Florida, l=Hialeah, o=GSLA DESIGN INC., cn=Kenneth Eric Gardner email=ken@gsladesign.c om

Date: 2022.05.13



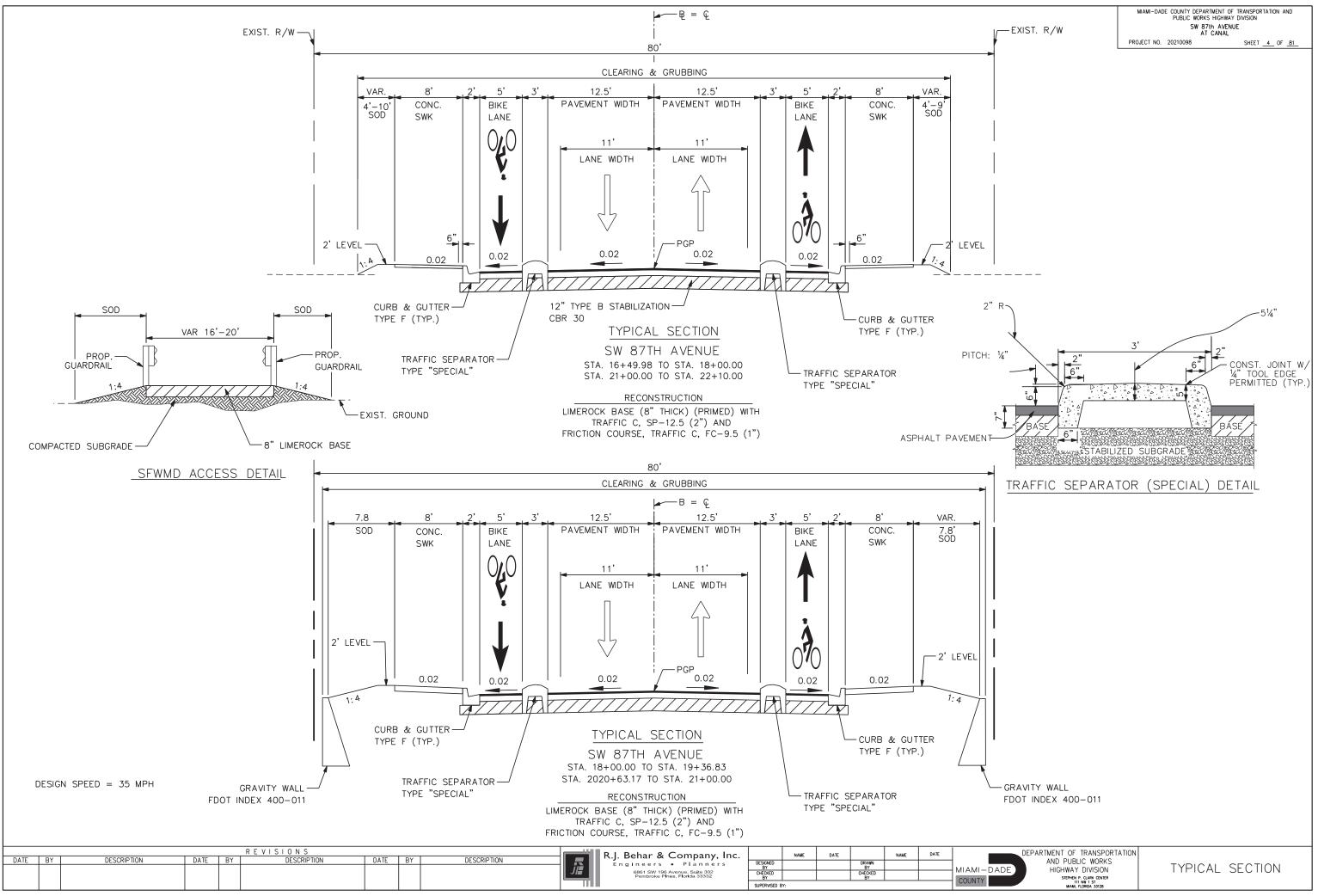
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STEPHEN P. CLARK CENTER 111 NW 1 ST MIAMI, FLORIDA 33128

SIGNATURE SHEET



~21030\_SW 87 Bridge over Canal C-100\CADD\roadway\TYPSRD01.

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PAY ITEM	SUMMARY OF ROADWAY QUANTITIES		TOTAL
NO	PAY ITEM DESCRIPTION	UNIT	P F
101-1-A	MOBILIZATION	LS	1
102–1A	MAINTENANCE OF TRAFFIC (INCLUDING TEMPORARY REFLECTIVE PAVEMENT MARKERS,	LS	
104-11	MARKINGS, TRAFFIC CONES, TEMPORARY SIGNS, FLAG MEN, ETC.) FLOATING TURBIDITY BARRIER	LF	1 112
104-11	STAKED SILT FENCE (TYPE III)		2706
104-13-1	INLET PROTECTION SYSTEM		8
110–1–1B	CLEARING AND GRUBBING	EA LS	1
110-1-18 110-22A	TREE ROOT AND BRANCH PRUNING	EA	5
120-1	REGULAR EXCAVATION	CY	328
120-1	SUBSOIL EXCAVATION	CY	3629
120-4	CHANNEL EXCAVATION	CY	649
120-5	EMBANKMENT	CY	5375
120-0			5575
160-4	TYPE 'B' STABILIZATION (12") (MIN. C.B.R. OF 30)	SY	4381
210-1-2	LIMEROCK BASE (8") (PRIMED)	SY	4068
327-70-01	MILLING, 1" AVERAGE DEPTH	SY	327
334-1-13	TRAFFIC LEVEL C, SP-12.5 (2")	TN	420
337-7-82	FRICTION COURSE, TRAFFIC LEVEL C, FC-9.5 (1' THICK)		228
339-1 339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	7
<u> </u>	INISOLLANCOUS ASFRALT FAVENENT		/
400-0-11	CONCRETE CLASS NS, GRAVITY WALL	СҮ	133
400-0-11	INLETS, CURB, TYPE 9, <10'	EA	3
425-1-902B	INLETS, CORB, THE 9, CIU INLETS, (SPECIAL) (>10')	EA	
425-1-475	INLETS, CURB, TYPE 7, PARTIAL	EA	1
425-1-479	INLETS, CORB, TIPE 7, MODIFY	EA	3
425-1-521	INLETS, DT BOT, TYPE C.<10'	EA	2
425-1-521 425-1-541A	INLETS, DT BOT, TYPE D, JBOT, <10'	EA	1
425-2-041	MANHOLES, P-7, <10'	EA	2
425-2-041A	MANHOLES, P-7, >10'	EA	4
425-5	MANHOLE, ADJUST	EA	2
430-94-1-1	DESILT PIPE (0" TO 48")		351
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	81
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD	LF	319
430-175-148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	16
430-175-218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER-ELIP/ARCH, 18"S/CD	LF	20
	STRAIGHT CONCRETE ENDWALLS, 24", SINGLE, ROUND	EA	1
460-5-1830	MANATEE GATE – (PIPE DIAMETERS 18" TO 30", OR EQUIVALENT)	EA	1
460-5-3648	MANATEE GATE – (PIPE DIAMETERS 36" TO 48", OR EQUIVALENT)	EA	1
443-70-4	FRENCH DRAIN, 24"	LF	498
527-2	DETECTABLE WARNING ON WALKING SURFACE/CURB RAMP DETECTABLE WARNING SURFACE	SF	235
520-1-10	CONCRETE CURB AND GUTTER (TYPE "F") INCLUDES COST OF LIMEROCK	LF	1197
520-70	CONCRETE TRAFFIC SEPARATOR, SPECIAL VARIABLE WIDTH	SY	235
522-1	CONCRETE SIDEWALK (4" THICK)	SY	718
522-2	CONCRETE SIDEWALK (6" THICK) (INCLUDING PEDESTRIAN RAMP)	SY	137
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	219
530-4-6	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6"	SY	325
530-74	BEDDING STONE	TN	3
536-1-1	GUARDRAIL-ROADWAY	LF	371
536-73	GUARDRAIL REMOVAL	LF	139
550-10-928	FENCING (SPECIAL) (5.1' TO 6' HEIGHT)	LF	180
550-60-915	SFWMD ACCESS GATE	LS	1
575-1-1	SODDING (PENSACOLA BAHIA OR MATCH EXISTING) (INCLUDES WATERING AND MAINTENANCE)	SY	1082
	· ·		·
BY C	R E V I S I O N S           DESCRIPTION         DATE         BY         DESCRIPTION         DATE         DESCRIPTION	R	.J. Behar & Company, I

	PAY ITE
102-1A	TO BE ACCOMPLI SERIES, THE MANU DEPARTMENT OF 1 MANUAL OF METRI MANUALS. INCLUI MAINTENANCE OF BARRICADES, FLAS MODIFICATION FOR
110-1-1B	INCLUDES REMOVA DRAINAGE STRUCT DISPOSED OF IN L ALL EXISTING DRA
425-1 TO 425-2	COST OF BAFFLE, AND BASE, LABOR
425-1-319A	INCLUDES THE CO
443-70-4	INCLUDES THE CO PLASTIC FILTER FA DETERMINE NON-F EXFILTRATION DRA
522-1	INCLUDES THE CO
530-4-9	INCLUDES CONCRE
550-60-915	SPECIAL TYPE GA
575-1-1	INCLUDES SOD TO DIRECTED BY THE
	ALLOWABLE PIPE ( 1. STEEL REINFOR( 2. ALUMINUM SPIR 3. ALUMINIZED STI 4. HIGH DENSITY (
	FOR SIGNING AND I FOR LIGHTING QUAI FOR LANDSCAPE Q FOR BRIDGE QUANT

1

NAME DATE GNED DRAWN CHECKED

SUPERVISED BY:

#### PROJECT NO. 20210098

### <u>em notes</u>

PLISHED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 600 ANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. F TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (ANSI D6 1–1978), PUBLIC WORKS TROPOLITAN DADE COUNTY, AND THE LATEST REVISIONS OF THE AFORE MENTIONED LUDES THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALL ITEMS OF OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, LASHING LIGHTS, TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKINGS, TRAFFIC SIGNAL OF TRAFFIC CONTPOL FIC R TRAFFIC CONTROL, ETC.

VAL OF EXISTING PAVEMENT, CONCRETE SIDEWALK, DRIVEWAYS, CURB AND GUTTER, CTURES AND PIPES, MISCELLANEOUS CONCRETE, VEGETATION, TREES AND DEBRIS TO BE LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES THE COST OF CLEANING-OUT AINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.

E, MATERIALS, METAL PIPE ENCASEMENT, INLET AND MANHOLE, PAVEMENT OR & CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.

COST OF SKIMMER TYPE II

COST OF EXCAVATION TO PLAN ELEVATION, PERFORATED PIPE, BALLAST ROCK, FABRIC AND BACKFILLING WITH SELECT FILL (SEE DETAIL OF EXFILTRATION DRAIN TO -PERFORATED PIPE QUANTITY) AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT AIN.

COST OF PEDESTRIAN RAMPS.

RETE FOR TOP TERMINATION TRENCH.

GATE, 16 FEET OPENING.

D BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS E ENGINEER. PENSACOLA OR TO MATCH EXISTING SOD.

OPTIONS ARE: E OPTIONS ARE: DRCED CONCRETE PIPE. PIRAL RIB 12 GA. STEEL SPIRAL RIB 12 GA. Y POLYETHYLENE, CL II

MARKING QUANTITIES SEE SHEET 51 CAPE QUANTITIES SEE SHEET 78 CAPE QUANTITIES SEE SHEET 5 (LANDSCAPE). QUANTITIES SEE SHEET 59



DATE

NAME



CATCH BASIN RIM ELEV: 5.08' BOTTOM ELEV: (-)3.3' N 15"Ø CMP, INVERT ELEV: 3.3' S 36"-WIDE TRENCH



CATCH BASIN RIM ELEV: 5.00' BOTTOM ELEV: (-)7.4' N 15"Ø CMP, INVERT ELEV: 1.2' S 36"-WIDE TRENCH



CATCH BASIN RIM ELEV: 5.29' BOTTOM ELEV: (–)3.3' S 15"Ø CMP, INVERT ELEV: 0.8' EX-4

CATCH BASIN RIM ELEV: 5.41' BOTTOM ELEV: (-)3.1' S 15"Ø CMP, INVERT ELEV: 2.1'

EX-5

(EX-9)

CATCH BASIN RIM ELEV: 5.71' BOTTOM ELEV: (-)1.3' N 24"Ø UNKNOWN PIPE, INVERT ELEV: 1.8'

STORM SEWER MANHOLE

BOTTOM ELEV: (-)4.6'

PIPES NOT VISIBLÉ



(EX-10)

RIM ELEV: 9.00'

PIPES NOT VISIBLÉ

CATCH BASIN RIM ELEV: 5.62' BOTTOM ELEV: (-)1.8' N 24"Ø UNKNOWN PIPE, INVERT ELEV: (-)0.4'

STORM SEWER MANHOLE

BOTTOM ELEV: (-)5.3'

(EX-7)

(EX-11)

48"ø OUTFALL

PIPE IN ENDWALL

INVERT ELEV: (-)1.0'

STORM SEWER MANHOLE RIM ELEV: 6.64' BOTTOM ELEV: (-)3.8' PIPES NOT VISIBLE



(EX-12)

24"ø RCP

PIPE IN ENDWALL

INVERT ELEV: 1.0'

STORM SEWER MANHOLE RIM ELEV: 6.46' BOTTOM ELEV: (-)3.2' PIPES NOT VISIBLE

RIM ELEV: 9.01'

(EX-13)

CATCH BASIN RIM ELV: 5.14' BOTTOM ELV: 2.3' E 18"Ø CMP, INVERT ELV: 2.4' S 24" CMP, INVERT ELV: 2.4'

(EX-14)

CATCH BASIN RIM ELV: 5.06' BOTTOM ELV: 1.9' W 18"¢ CMP, INVERT ELV: 2.3'

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BA	DESCRIPTION	R.J. Behar & Company, Inc. NAME DATE NAME DATE DATE DATE	
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MIAMI-DADE COUNTY DEPARTM PUBLIC WORKS H	
SW 87th AT C	
PROJECT NO. 20210098	SHEET <u>6</u> OF <u>81</u>



<u>≻</u>					LS I	STORM A	ND CR	OSS DF TYPE	RAIN	FRENCH DRAIN		CURB INI		1			HOLE		H BOTT
QUAN II 1	STR. NO	STATION	SIDE	DESCRIPTION	BARREL	14"X23"	18"	24"	48"	ROUND SHAPE	<10	7 MODIFIED PARTIAL	P-9 <10	SPECIAL	<10	-7	ADJUST TOP	C <10	J
	EX-7	16+25.36	LT	MANHOLE ADJUSTMENT													1	<u> </u>	
	EX-8	16+20.83	RT	MANHOLE ADJUSTMENT													1		
	1	16+61.00	RT	INLET, PIPE			16											1	
-	2	16+61.00	RT	INLET, PIPE			12		16					1					
	4	16+61.00		MANHOLE, FD						236						1			
	5	17+02.80	LT	INLET, PIPE			39				1								
	6	16+61.00	LT	INLET, PIPE		20							1						<u> </u>
+	7	18+81.95	RT	MANHOLE ADJUSTMENT								1							
+	8	18+87.00		MANHOLE												1			<u> </u>
+	EX-11	19+70.49	RT	ENDWALL ADJUSTMENT	-														
t	19	20+28.72	LT	ENDWALL, PIPE				103										<u> </u>	
	9	21+82.50	RT	INLET, PIPE				92					1					+	
+	10	21+34.04	RT	INLET, PIPE	-		46				1								
╪	11	21+74.00	LT	INLET, PIPE			33				1								<b> </b>
t	12	21+74.00		INLET, PIPE			5						1						<b> </b>
+	13	21+34.50		MANHOLE, PIPE				170							1			<u> </u>	
+	14	23+10.00	RT	MANHOLE, PIPE MANHOLE, PIPE, FD			45	170		155					1			<u> </u>	
+	15	23+10.00	LT	INLET, PIPE, FD			40	15		107								<u> </u>	<u> </u>
╞								15		107								<u> </u>	
ł	16	23+10.00	RT	INLET														1	
+	17	24+37.50	RT	MANHOLE, PIPE	-			29								1			
1	18	24+37.50	LT	MANHOLE												1			
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	SHEET	TOTALS -		PLAN QUANTITY FINAL QUANTITY	-	20	196	409	16	498	3	1	3	1	2	4	2	2	
	GRAND	TOTALS –		PLAN QUANTITY		20	196	409	16	498	3	1	3	1	2	4	2	2	
				FINAL QUANTITY	1														

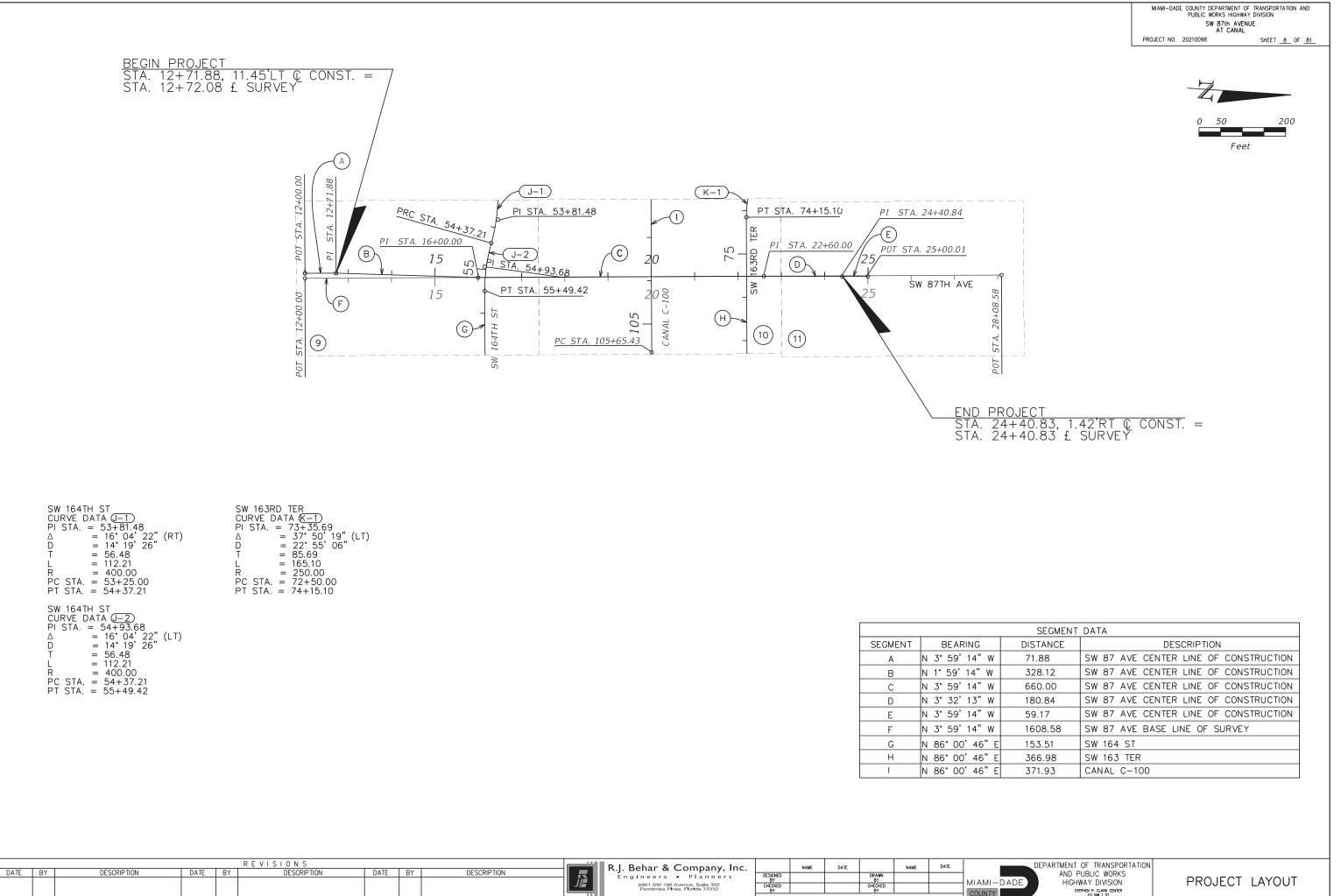
C-100\CADD\drainage\SUM	
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SW	
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2/2						REVISIONS				الانتصار النائد	R.J. Behar & Company, Inc.		NAME	DATE		NAME	DATE	
12	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		Engineers • Planners	DESIGNED			DRAWN			-
^ ا										JE	- 6861 SW 196 Avenue, Suite 302 Pembroke Pines, Florida 33332	CHECKED			CHECKED			MIAM
												SUPERVISED B	I IY:		1 81	1		COUNT

		MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTAT PUBLIC WORKS HIGHWAY DIVISION SW 87th AVENUE AT CANAL PROJECT NO 20210098 SHEET 7						
			PROJECT NO. 20210098		OF <u>81</u>			
TTOM INLETS	STRAIGHT ENDWALL							
J-BOTTOM	24"		REMARKS					
		REPL	ACE & RAISE TOP					
		REPL	ACE & RAISE TOP					
		SEE	DRAINAGE DETAILS					
		SKIM	MER TYPE II					
		MODI	FIED					
		SEE	DRAINAGE DETAILS					
		CONS	ST. MANATEE GRATE					
	1	CONS	ST. MANATEE GRATE					
		MODI	FIED					
		MODI	FIED					
		CONF	FLICT STRUCTURE					
1		SEE	DRAINAGE DETAILS					
1								
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SUPERVISED BY:

	SEGMENT	DATA
G	DISTANCE	DESCRIPTION
4" W	71.88	SW 87 AVE CENTER LINE OF CONSTRUCTION
" W	328.12	SW 87 AVE CENTER LINE OF CONSTRUCTION
4" W	660.00	SW 87 AVE CENTER LINE OF CONSTRUCTION
3"W	180.84	SW 87 AVE CENTER LINE OF CONSTRUCTION
4" W	59.17	SW 87 AVE CENTER LINE OF CONSTRUCTION
4" W	1608.58	SW 87 AVE BASE LINE OF SURVEY
46"E	153.51	SW 164 ST
46"E	366.98	SW 163 TER
46"E	371.93	CANAL C-100



#### GENERAL NOTES

- B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.-29).
- ANY N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY 2. REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY RON TAYLOR, FLORIDA DEPT, OF ENVIRONMENTAL PROTECTION (FDEP) SURVEYING AND MAPPING, 3900 COMMONWEALTH BLVD., MAIL STATION 105, TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE (850) 245-2606.
- ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, 3 DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO MIAMI-DADE COUNTY PUBLIC WORKS. DEPARTMENT A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 4 ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE STATED.
- 5. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.
- THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF CURB: A. FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN. AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED.
  - C. WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED
  - THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES

CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.

- ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS 7 TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION 8. SYSTEM (NPDES).
- THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIEY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED
- PLEASE CALL MR. MIKE WHITLING AT 305-375-2655 CONCERNING SURVEY RELATED QUESTIONS. 10
- EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY MIAMI-DADE COUNTY 11. DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS
- CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO 12. PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES. 13.
- 14. MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED JNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305-668-3626. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE FAX NO. 305-545-3482 FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305-805-4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT AT 305-274-9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A
- KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

ATLANTIC BROADBAND	(305)	861	-	8069	RED FLEX CAMERAS	(915)	727 - 1990
AT&T	(305)	913	-	1408	SUN GUIDE		
CENTURY LINK	(720)	888	-	1089	VERIZON/MCI		
COMCAST CABLE	(954)	444	-	5113	MIAMI-DADE WATER & SEWER	(786)	268 - 5320
CROWN CASTLE	(786)	246	-	7827			
ENERGY TRANSFER	(407)	838	_	7171			
FPL	(305)	442	-	5172			
HT LOCATING	(786)	345	_	0991			
MASTEC	(305)	431	_	6014			
NEXT ERA ENERGY	(305)	835	_	3618			
PRG CONSULTING	(816)	886	-	8574			

- THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER 16. AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE
- 17, ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER
- 18. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE
- CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE 19. INCLUDED IN RELATED BID ITEMS.
- 20. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.

- THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, 21 SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION. SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND 22. CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND 23. DEWATERING SHALL BE INCLUDED IN THE THE RELATED BID ITEM FOR THE WORK BEING DONE.
- THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN 24 THE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
- EXPLORATORY OR PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, 25. CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE
- 26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
- ALL EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED 27. BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE
- ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR 28. APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
- ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
- EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY 30 REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS. AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE 31. SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED. EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER
- CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED 32 ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
- THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND 33. REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT. 34.
- WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE 35. SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, 36. ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- 37. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEFL LOADS.
- 38. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"X20" AREA
- 39. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
- EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND 40. SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON-TOXIC BITUMASTIC SEALANT
- PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY 41 THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
- 42. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.
- 43. ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. 44
- PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND 45. NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
- 46. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE 47. STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE LOCATIONS
- 48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE PUBLIC WORKS DEPARTMENT MANUAL, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT STANDARD PLANS.
- WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE 49. EXISTING PAVEMENT
- 50. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
- EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, 51. UNLESS OTHERWISE SHOWN IN PLANS.
- WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS 52. ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS
- 53 CONTRACTOR TO INSTALL 2" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.

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#### MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION SW 87th AVENUE AT CANAL SHEET 9 OF 81

PROJECT NO. 20210098

54. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE.

COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.

DESIGN WATER TABLE ELEVATION: 3.00 FT

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66.

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SOLID WASTE SITE

RIGHT OF WAY

MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 7.00 FT

THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED

THE APPLICABLE PROCEDURES FOR WASTE HANDLING SPECIFIED IN THE DERM APPROVED WASTE RELOCATION PLAN AND HAZARDOUS WASTE CONTINGENCY PLAN DATED APRIL 29, 2013 AND REVISED AUGUST 1, 2013 SHALL APPLY.

CONTRACTOR SHALL DISPOSE ANY SOLID WASTE ENCOUNTERED WITHIN THE PROJECT LIMITS TO A CLASS I

CONTRACTOR SHALL REPLACE ANY EXISTING GEOTEXTILE BETWEEN THE SUBGRADE AND THE LIMEROCK THAT IS DAMAGED DURING CONSTRUCTION. CONTRACTOR TO VERIFY EXACT LOCATIONS DURING CONSTRUCTION. WORK TO BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

CONTRACTOR TO PROVIDE A HEALTH AND SAFETY PLAN (HASP) SIGNED BY A CERTIFIED INDUSTRIAL HYGIENIST.

CONTRACTOR TO PROVIDE AN APPROVED SOIL MANAGEMENT PLAN, INCLUSIVE OF DUST CONTROL (IF SOIL CONTAMINATION REMAINS).

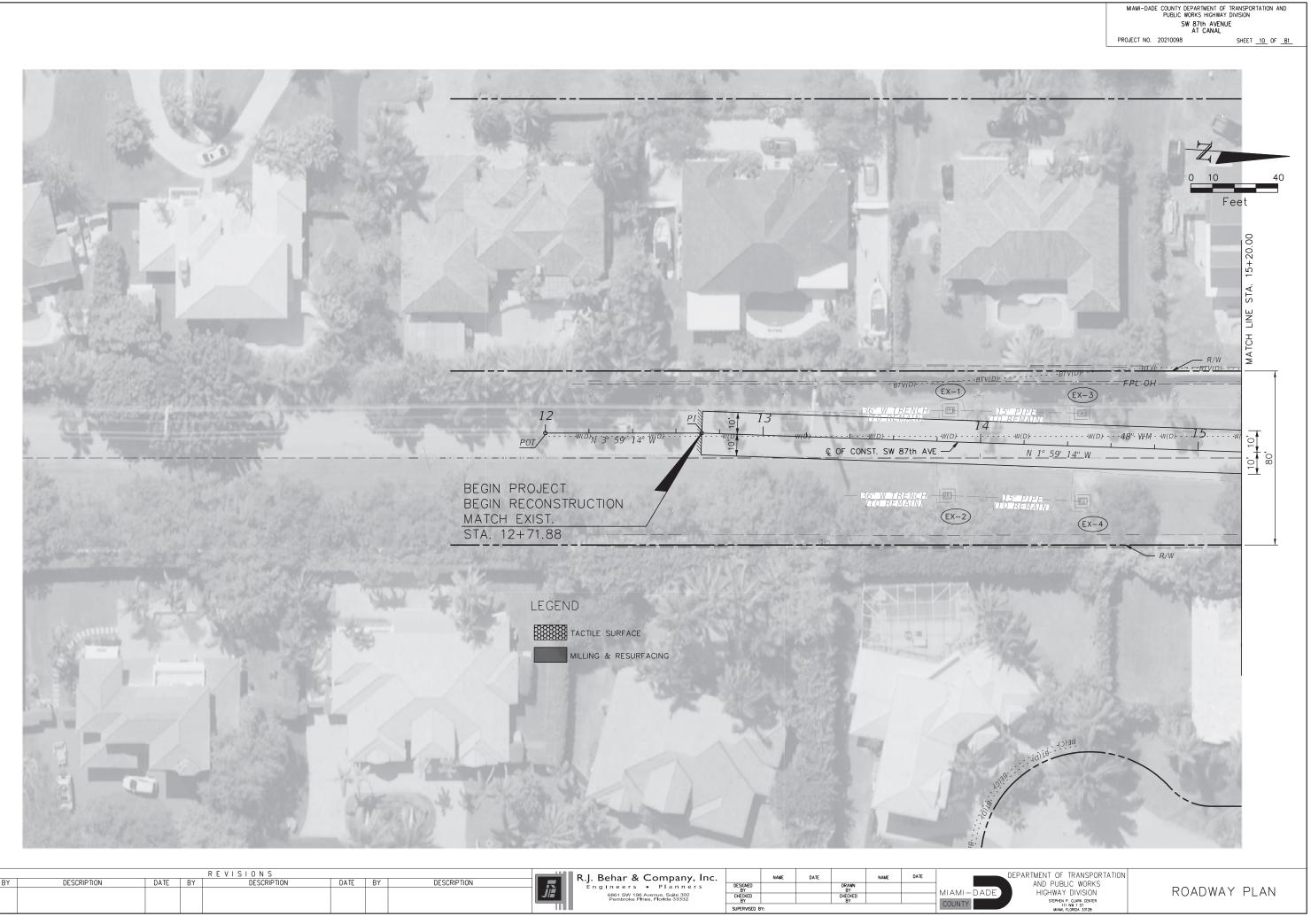
65. OUTFALLS TO BE CLEANED AND DESILTED.

ALL SALVAGEABLE MATERIALS THAT ARE TO BE REMOVED MUST BE DELIVERED AND UNLOADED AT MIAMI DADE ROAD, BRIDGE, AND CANAL MAINTENANCE DIVISION.

9301 NW 58TH STREET MIAMI, FL 33178

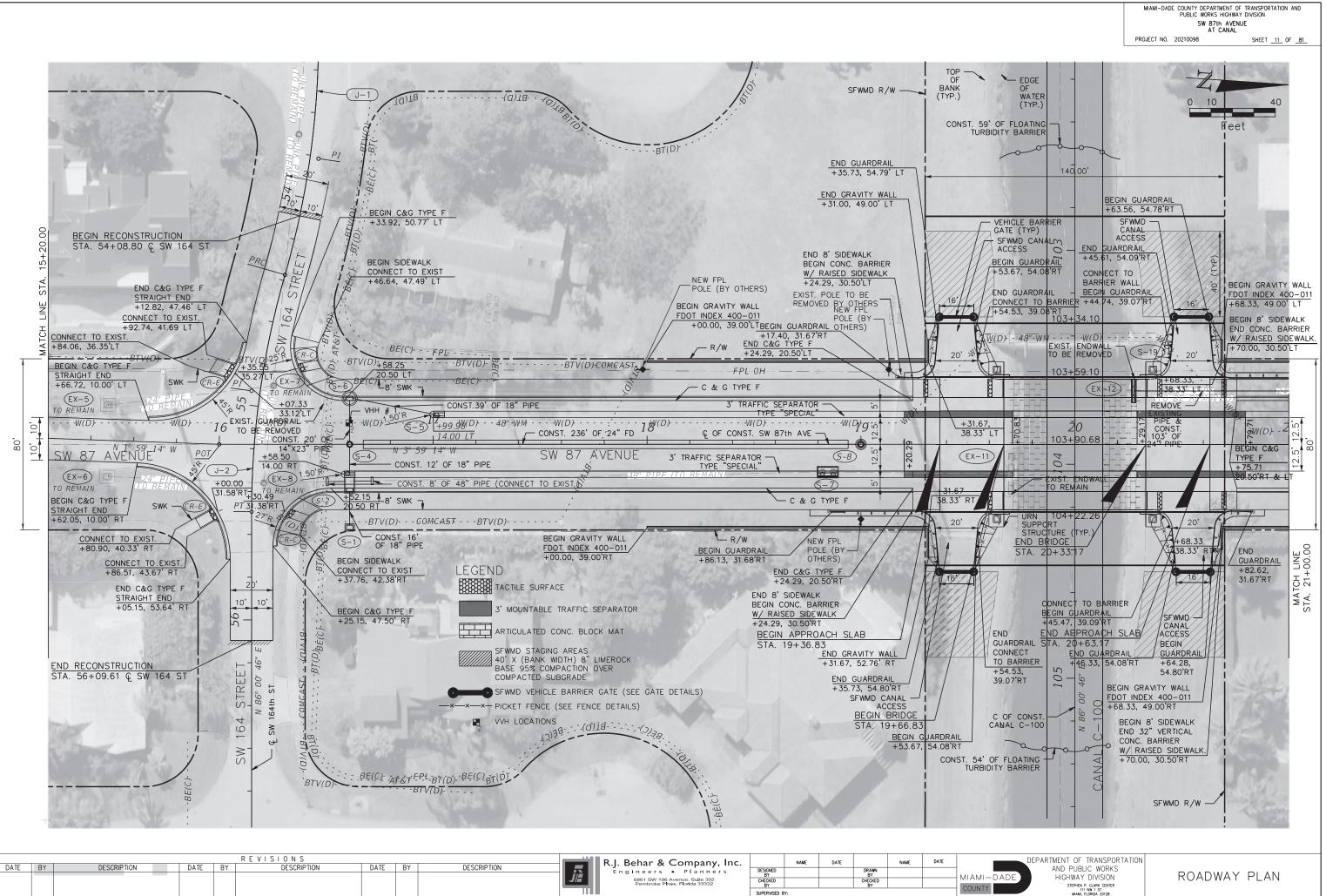
TELEPHONE NUMBER: 305-592-3116

REFER TO MIAMI DADE COUNTY PUBLIC WORKS MANUAL STANDARD G 2.1 FOR UTILITY PLACEMENT WITHIN PUBLIC

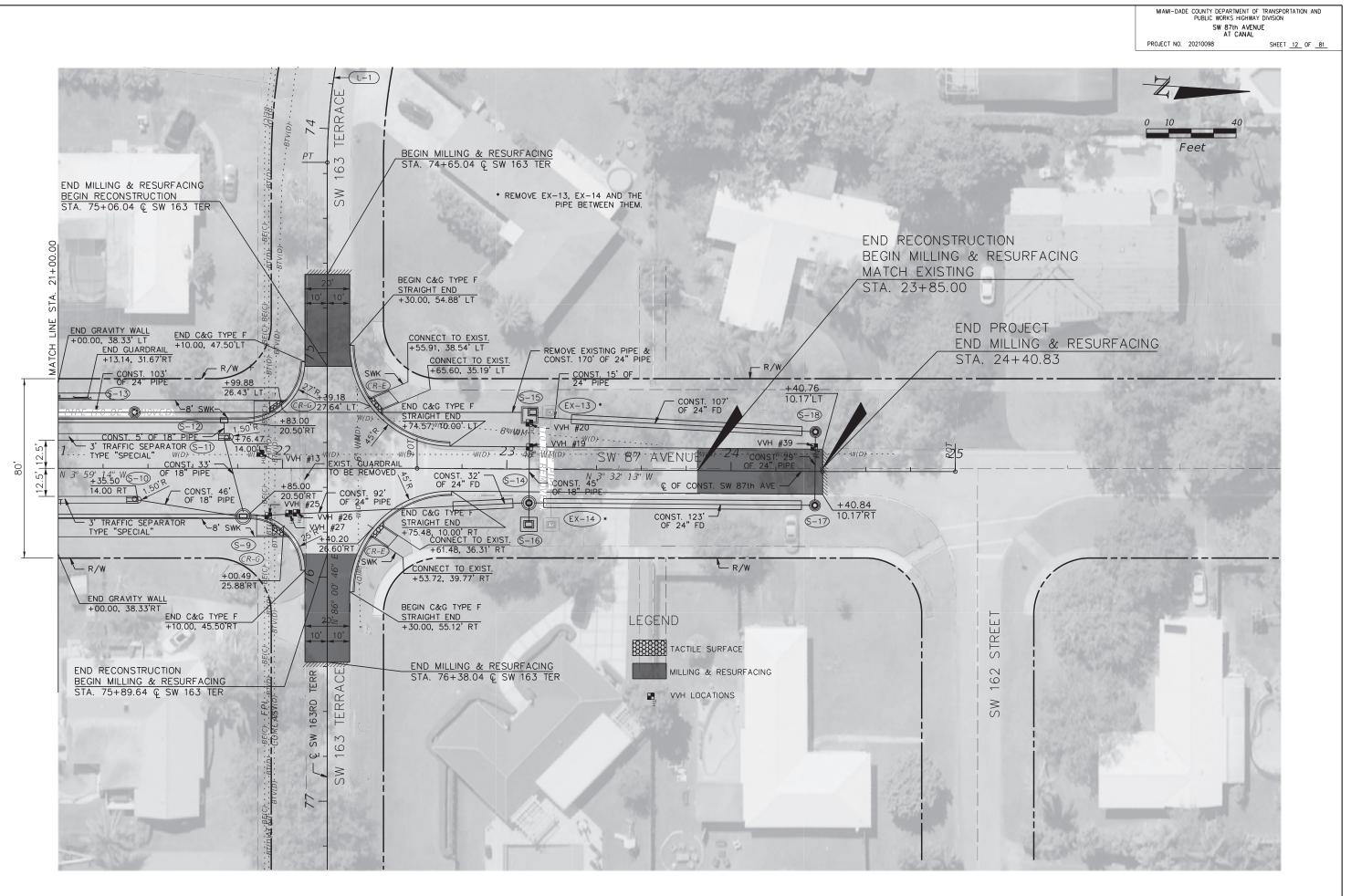


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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION SIEPPIN P. CARK CONER WAIL, ICORN 3128

ROADWAY PLAN

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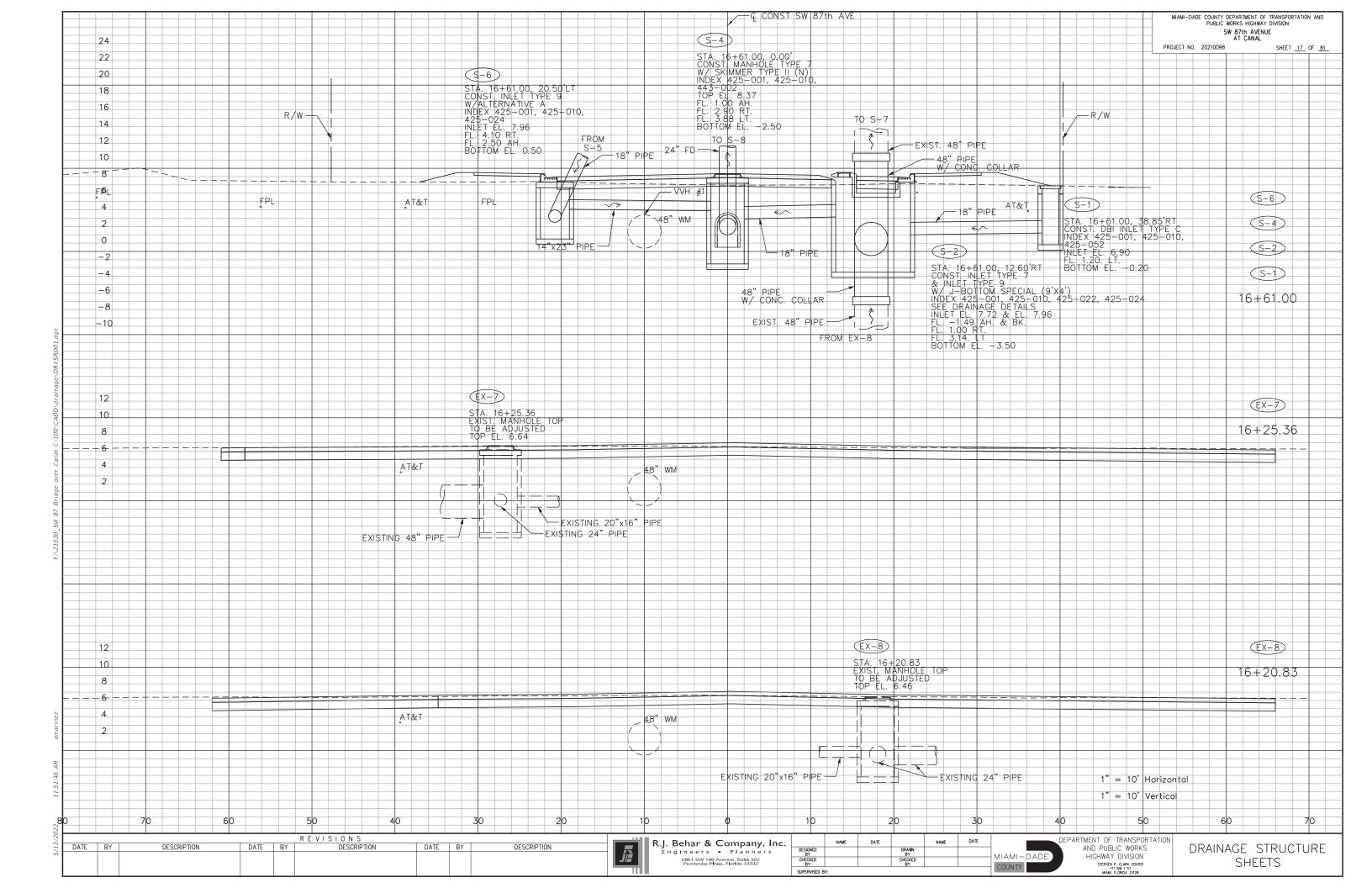
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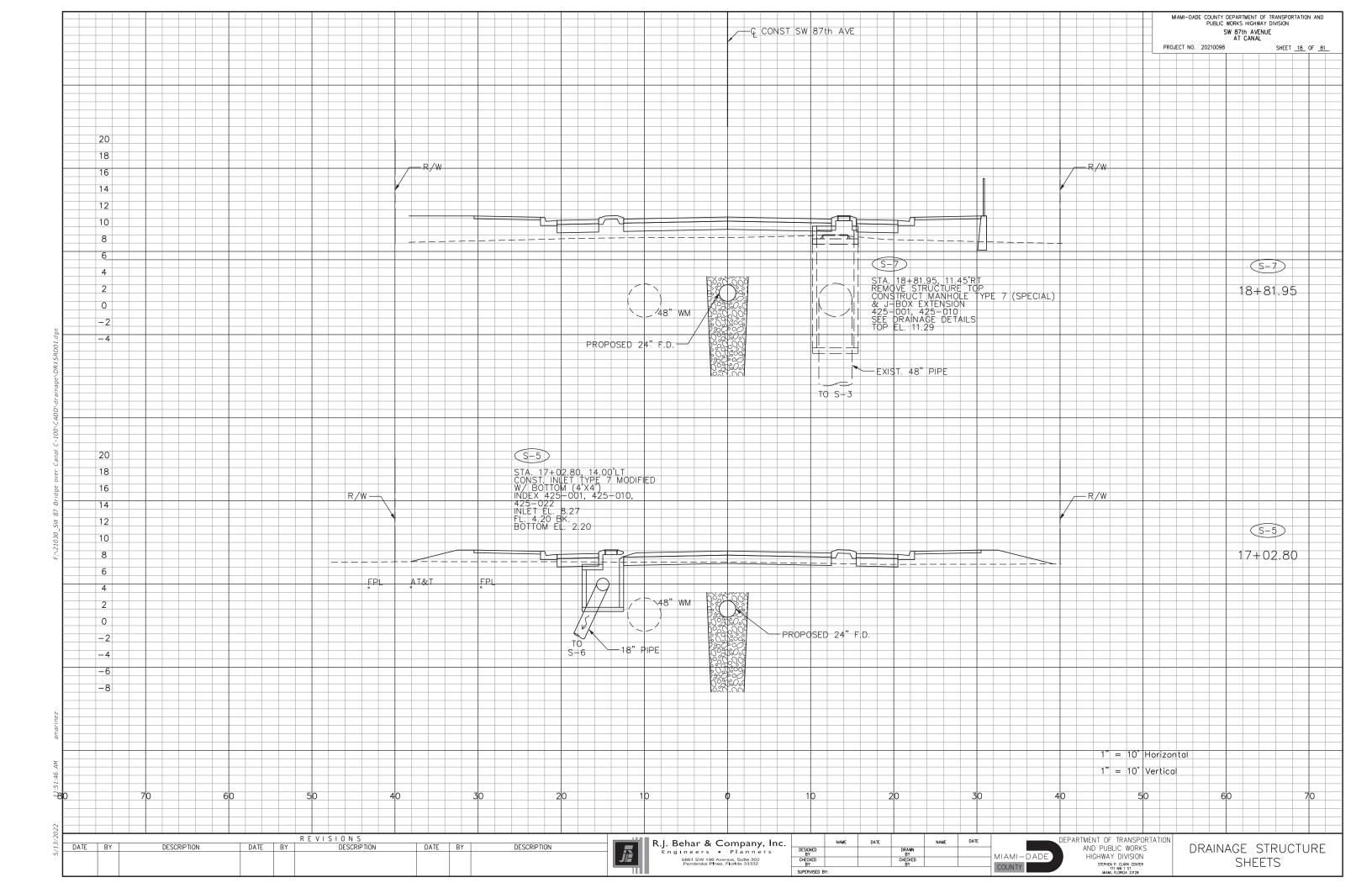
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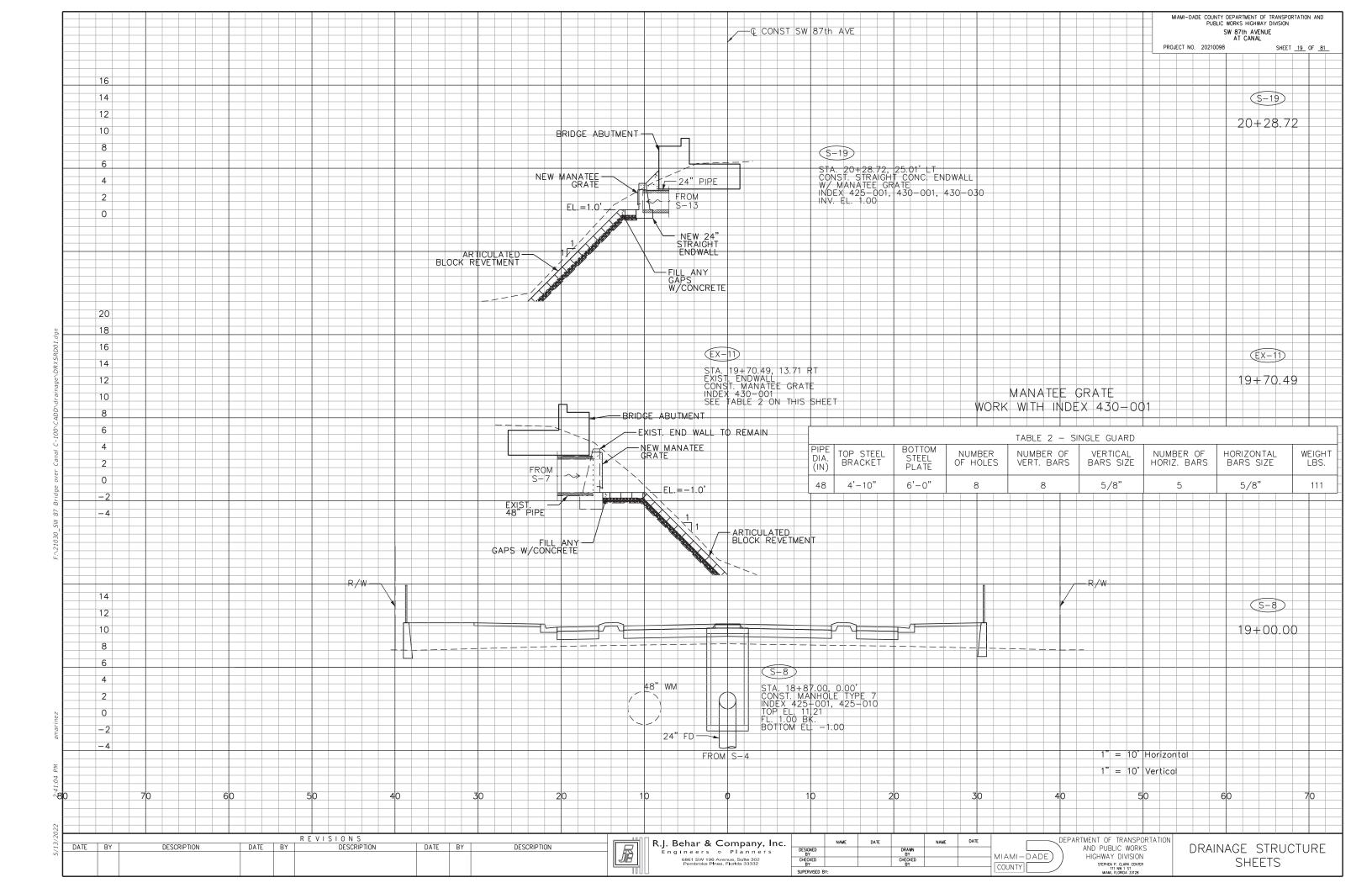
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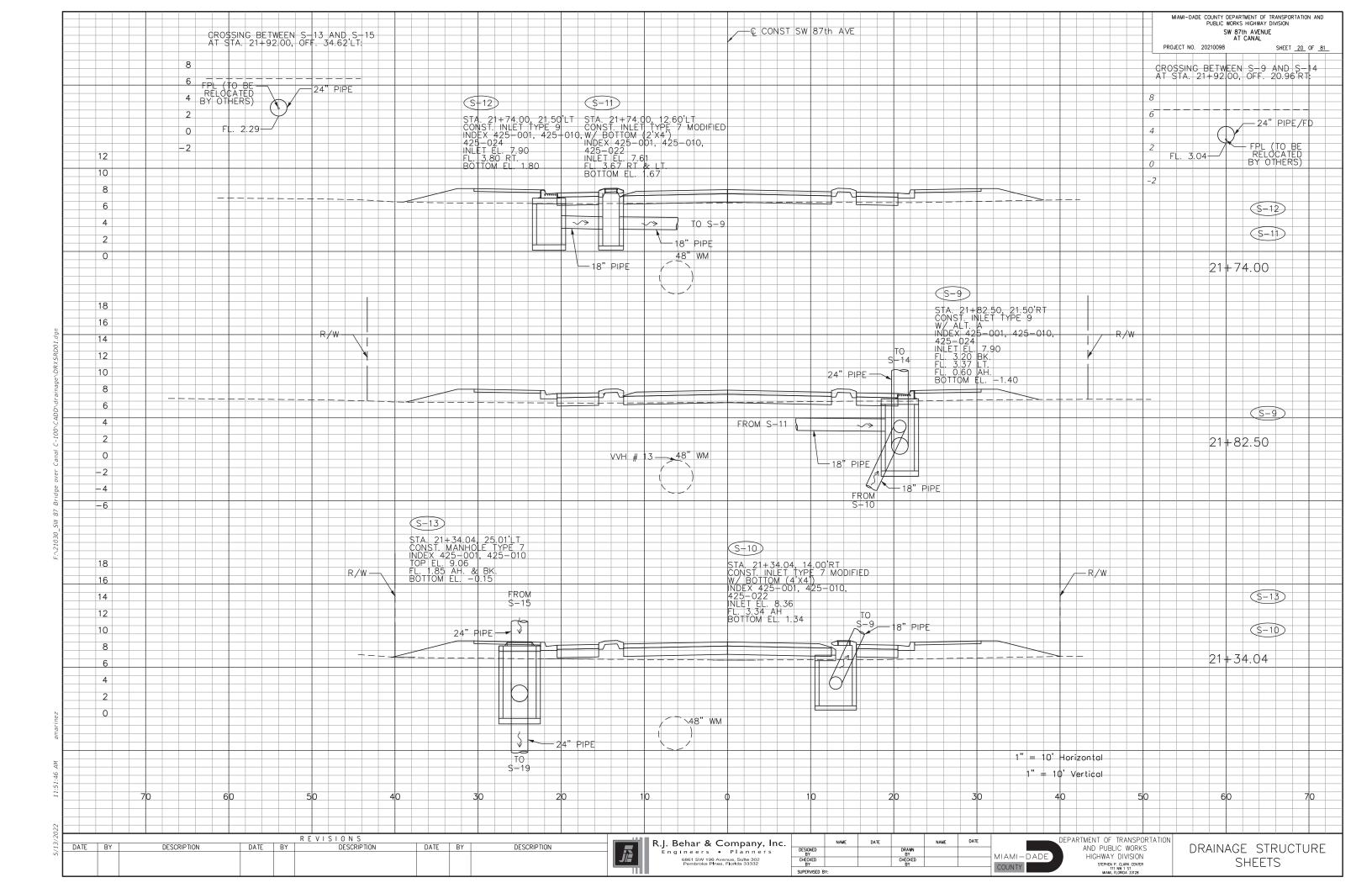
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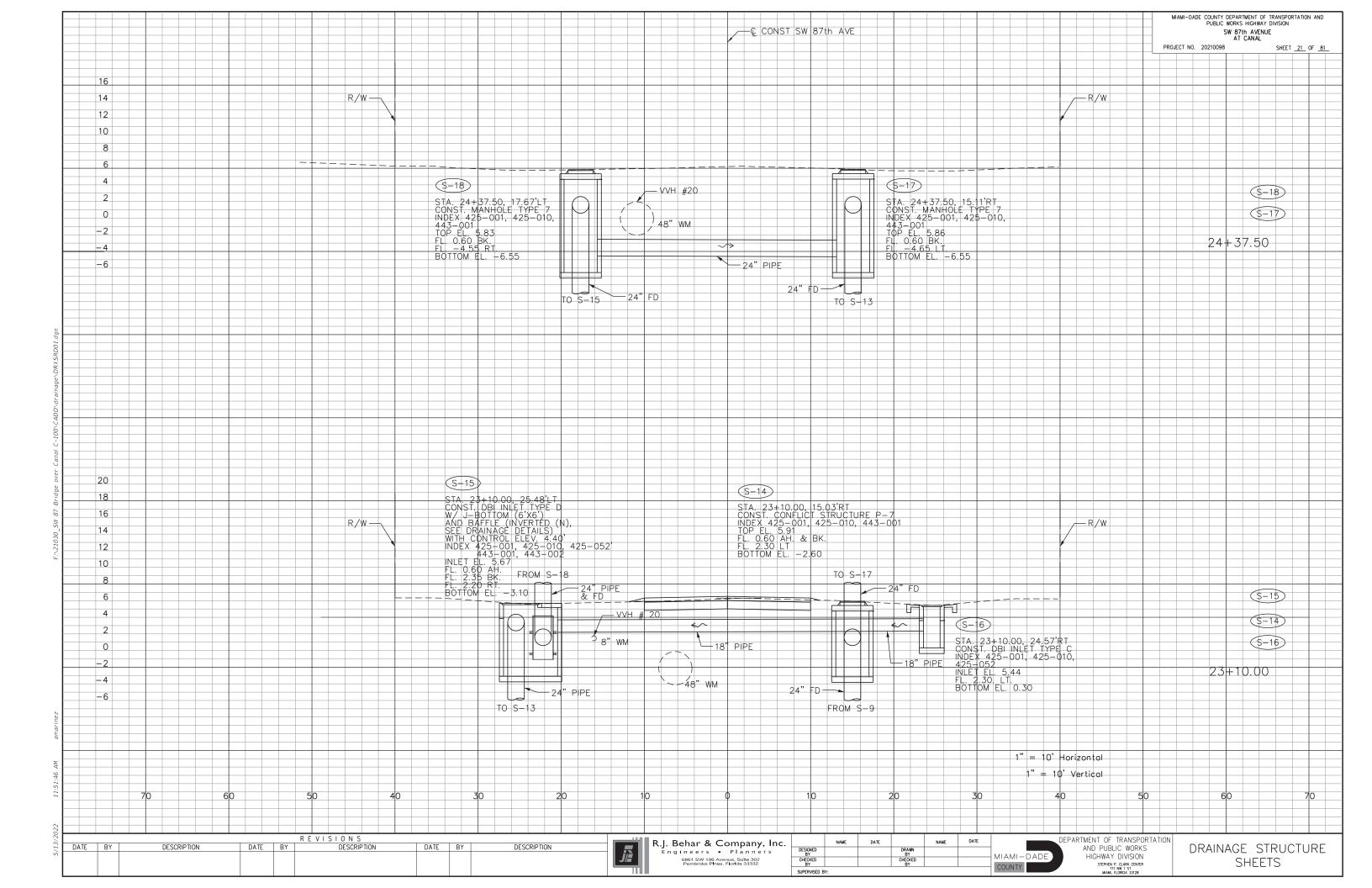
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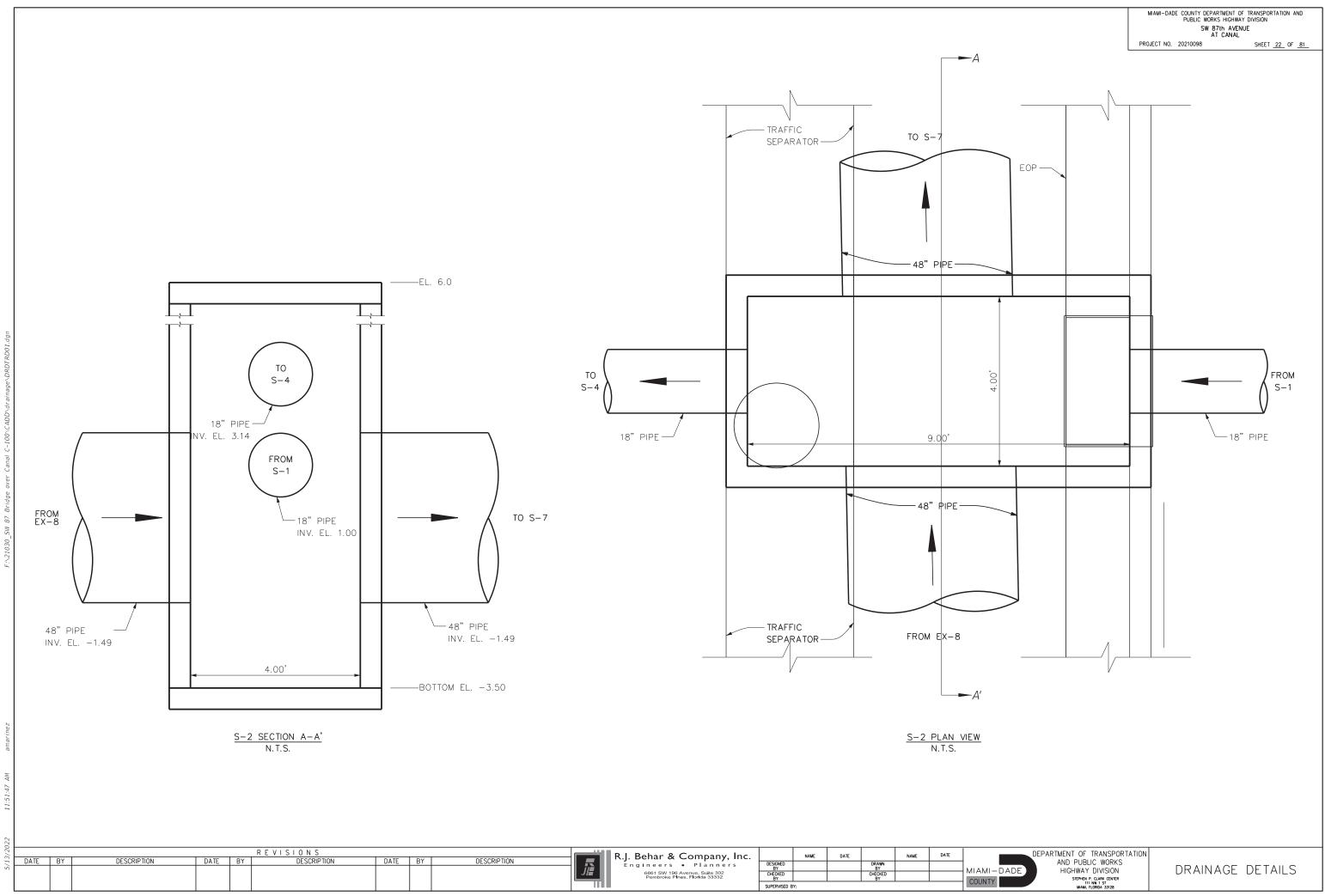


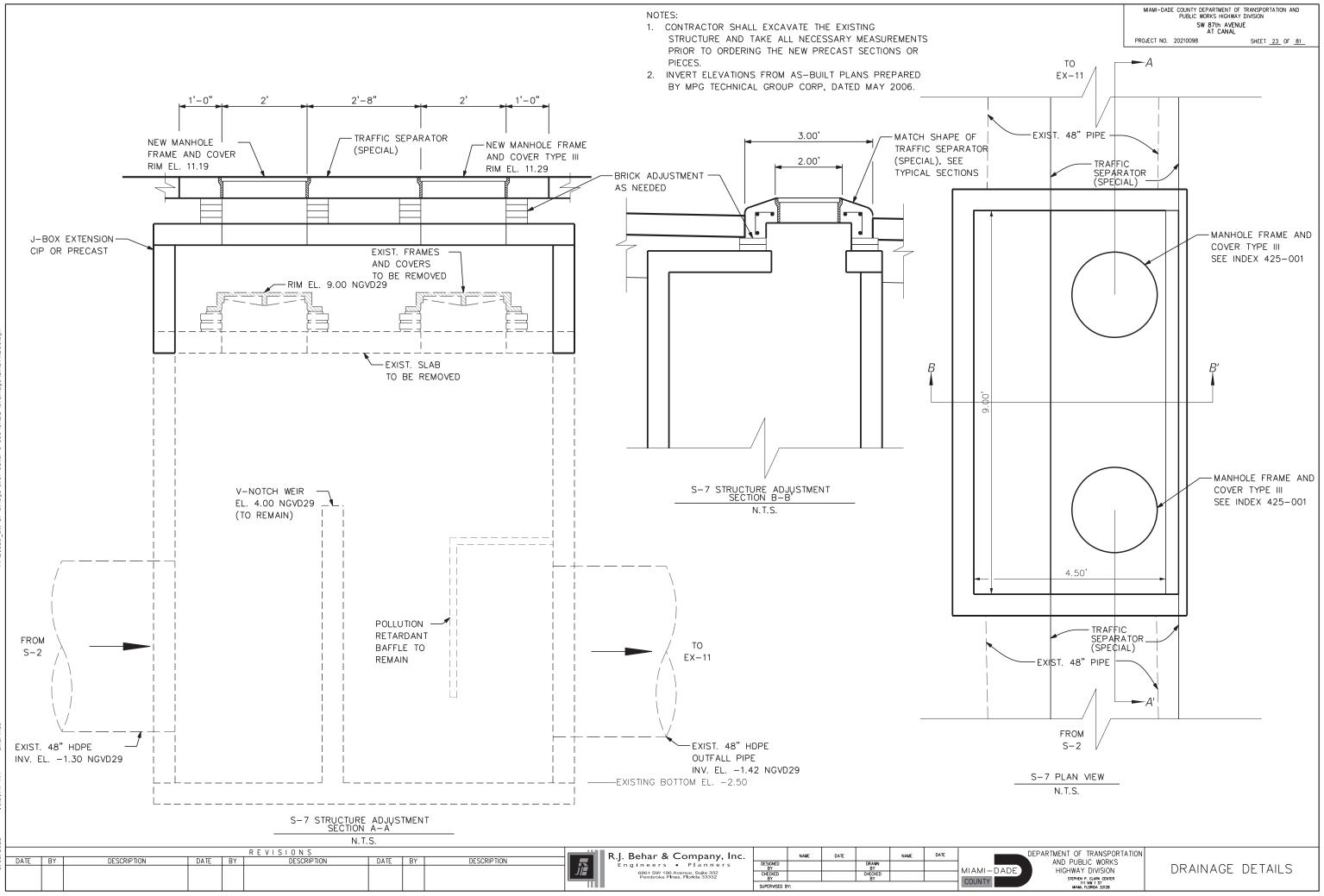


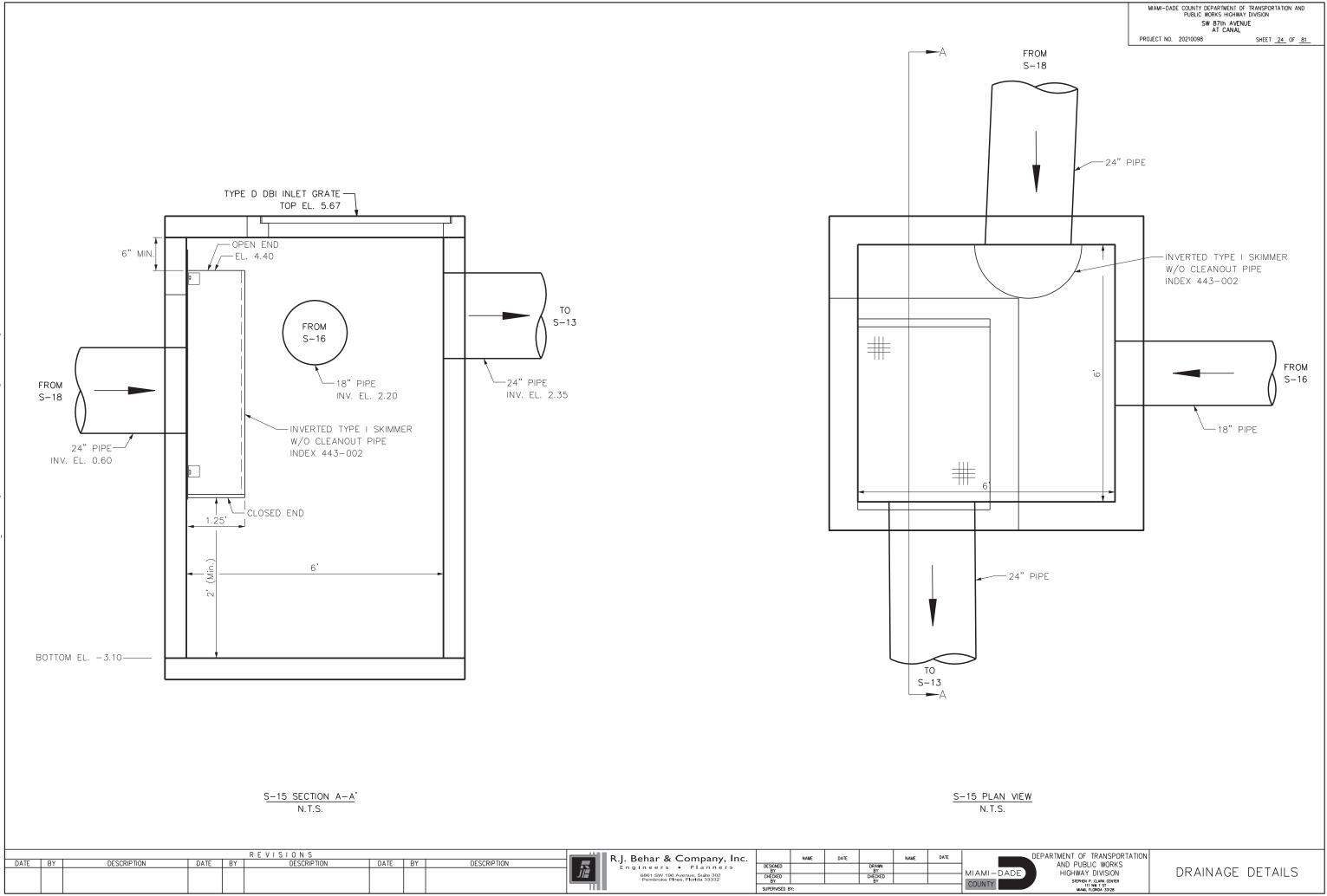








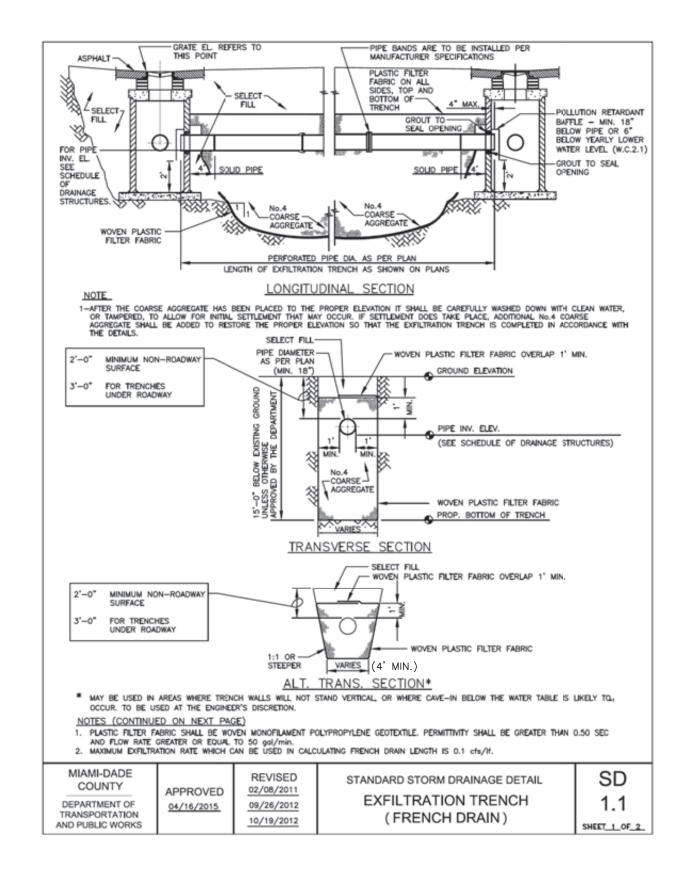




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#### NOTES CONTINUED

- 3.
- NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.

CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

MINIMUM NUMBER	OF PERFORATION I	N PIPE CULVERTS
PIPE DIAMETER	OUTER SHELL	LINER
(inches)	No. of %" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 5%" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
36	240	120
42	275	140
48	315	150
54	355	180
60	395	200
72	470	235
84	550	275

#### NOTE:

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

MIAMI-DADE COUNTY	APPROVED	REVISED 06-04-86	
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	04/16/2015	<u>10-22-13</u> 05-02-81	

í						REVISIONS				R.J. Behar & Company, Inc.		NAME	DATE		NAME	DATE	
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										Pembroke Pines, Florida 33332	CHECKED BY		1 /	CHECKED BY	/		
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SHEET 25 OF 81

THE MININUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES, 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.

TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN. TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE. ALL INVEFTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.

ALL INVESTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
 PIPES CAN BE ALLOWED BELIOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
 NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
 OLI AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFLITATION TRENCHES, IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
 OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

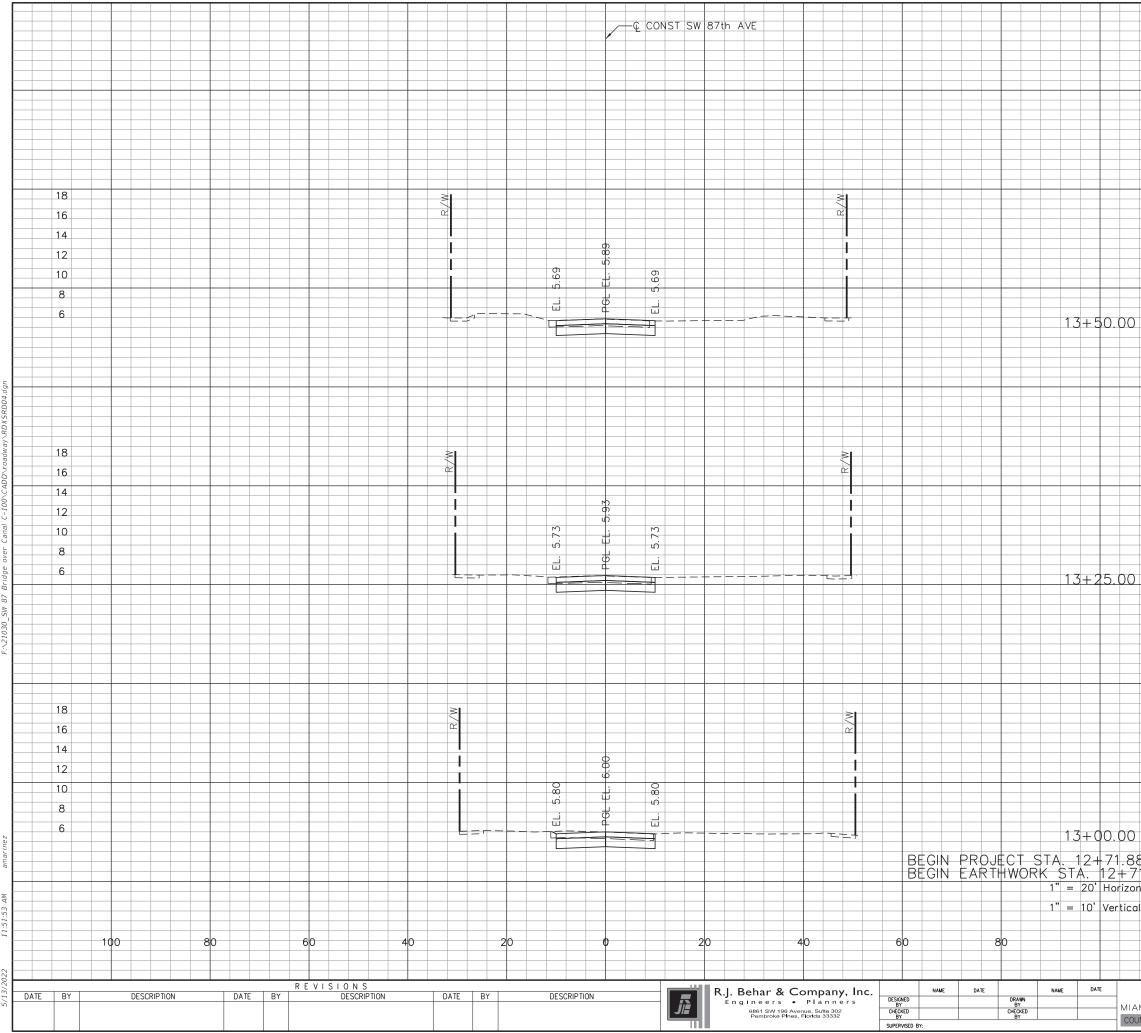
GENERAL NOTES FOR PIPE CULVERTS

STANDARD STORM DRAINAGE DETAIL

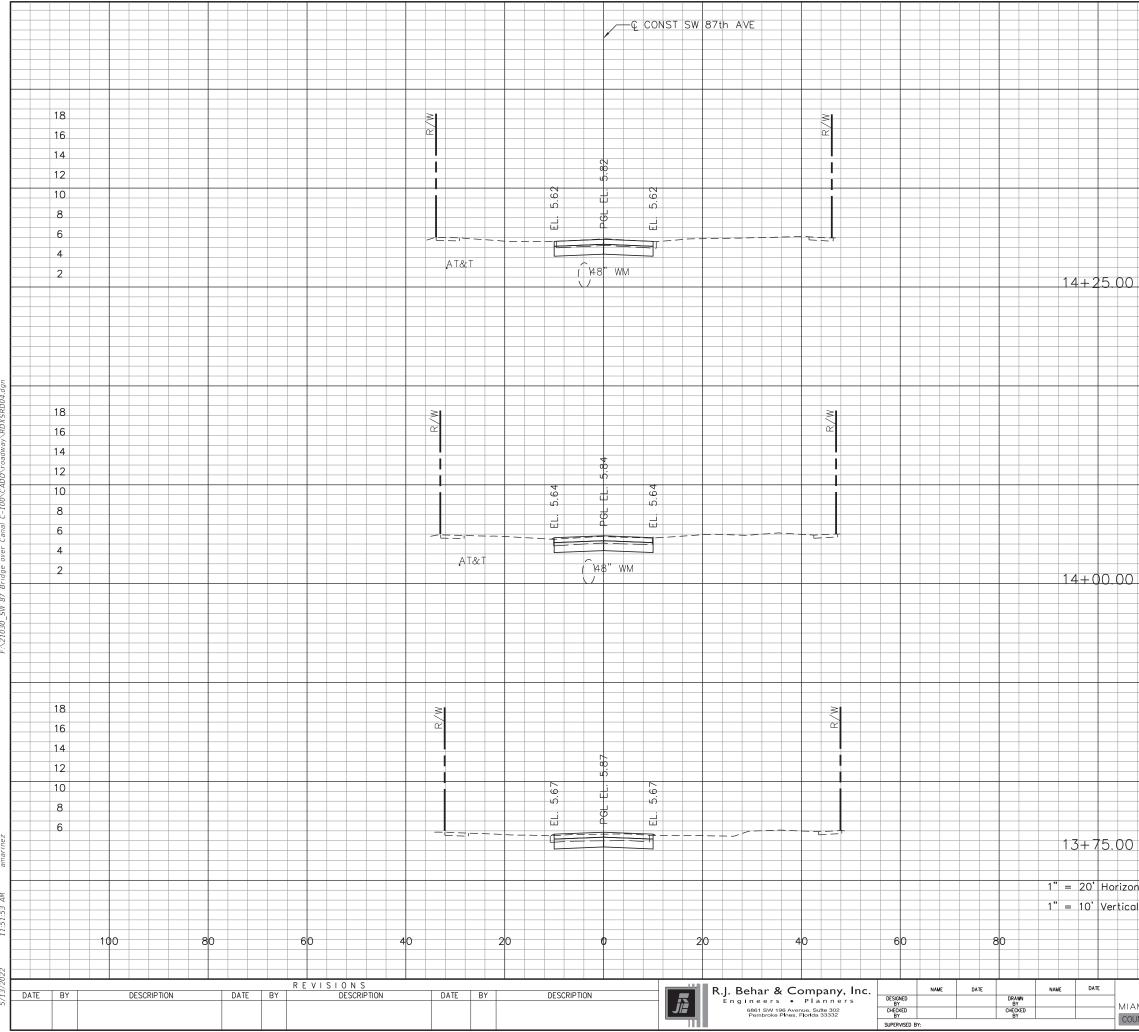
EXFILTRATION TRENCH (PIPE CULVERT NOTES)

SD 1.1 SHEET 2\_OF\_2

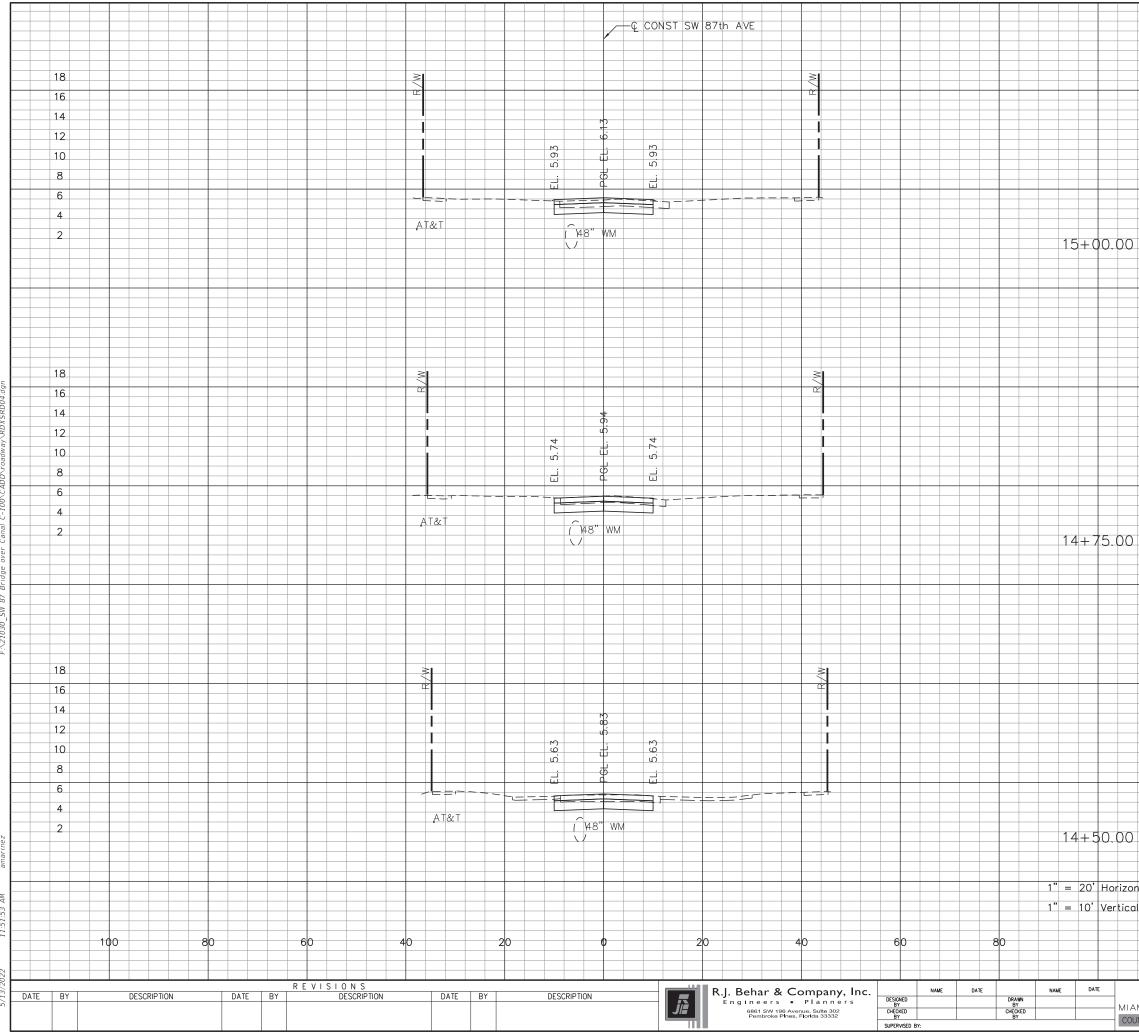




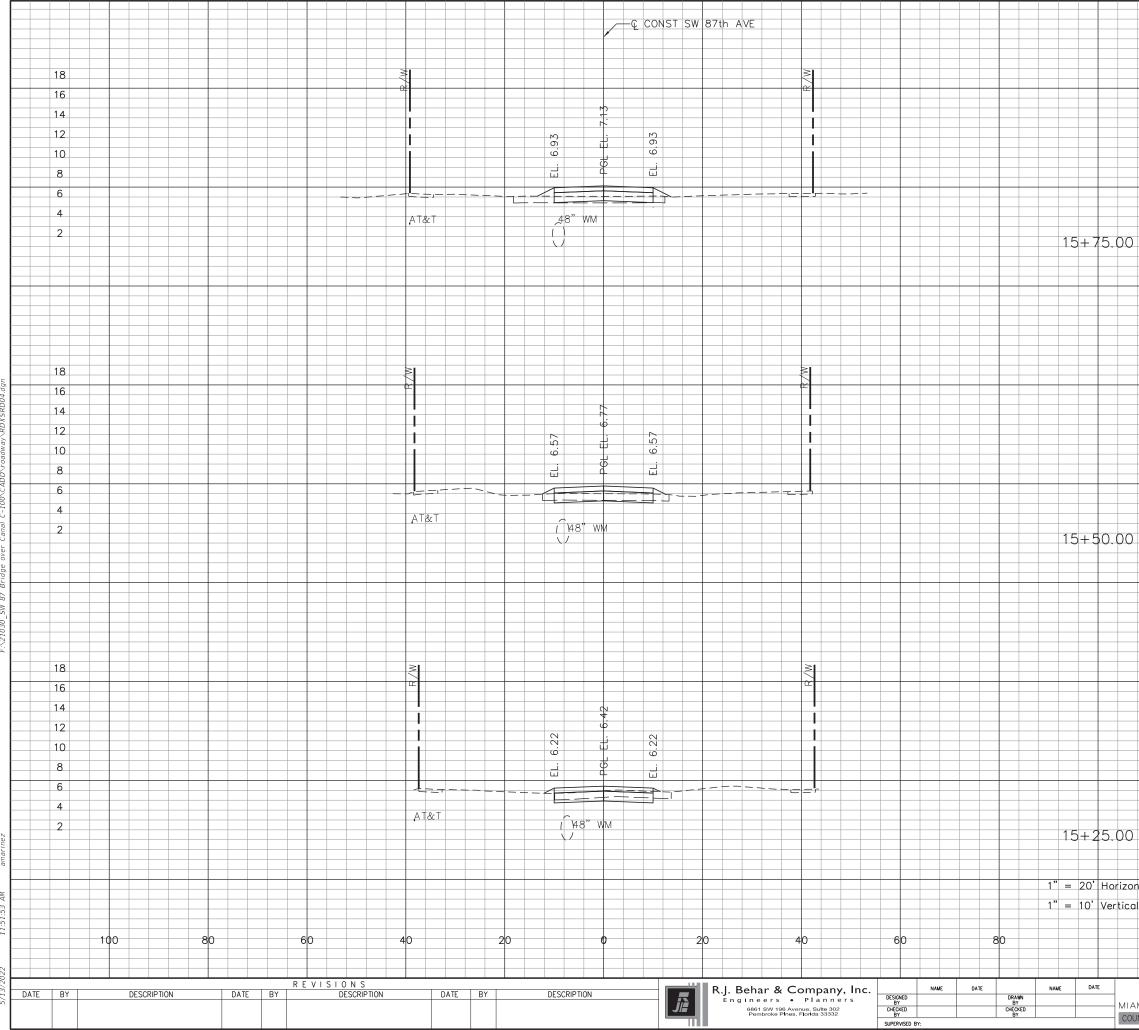
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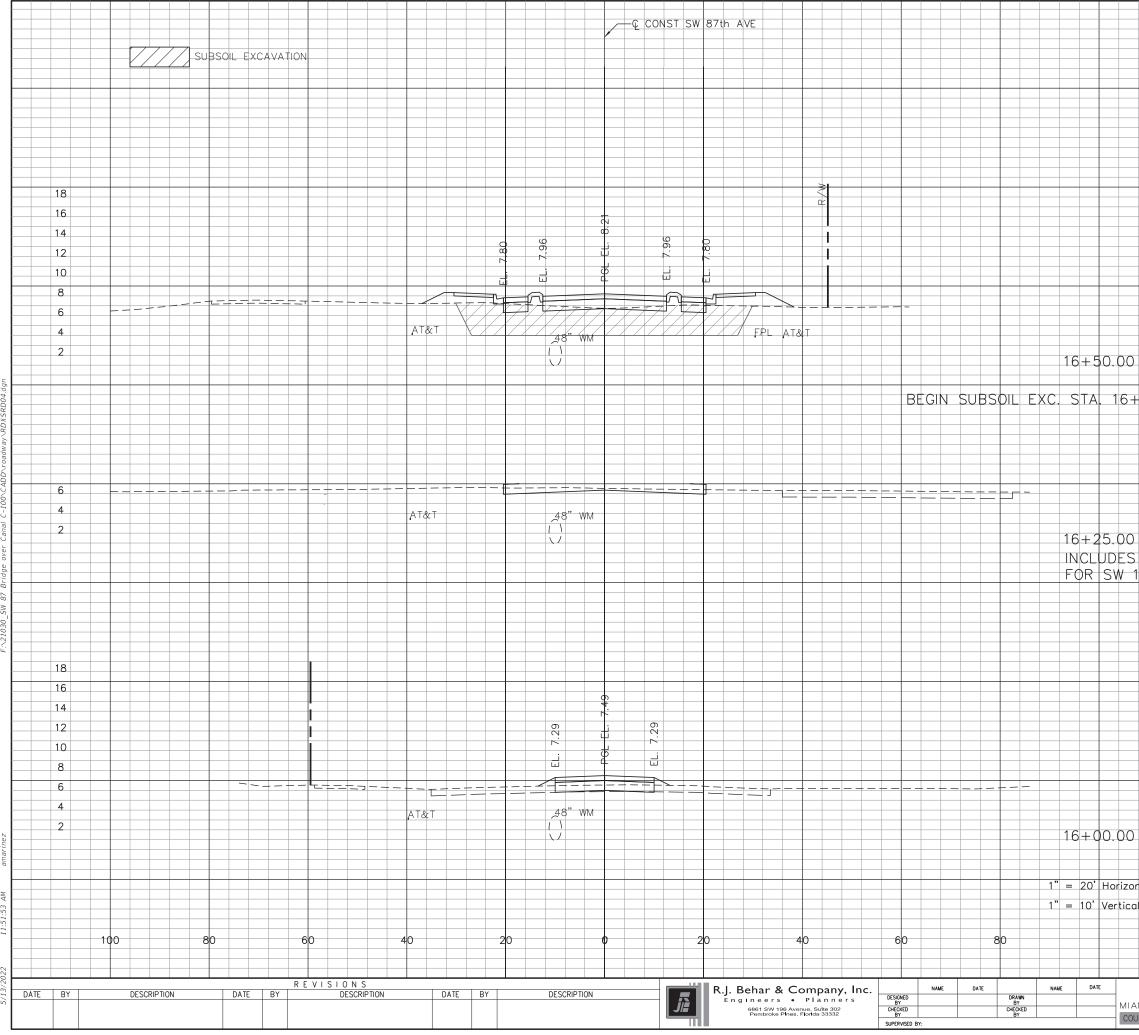
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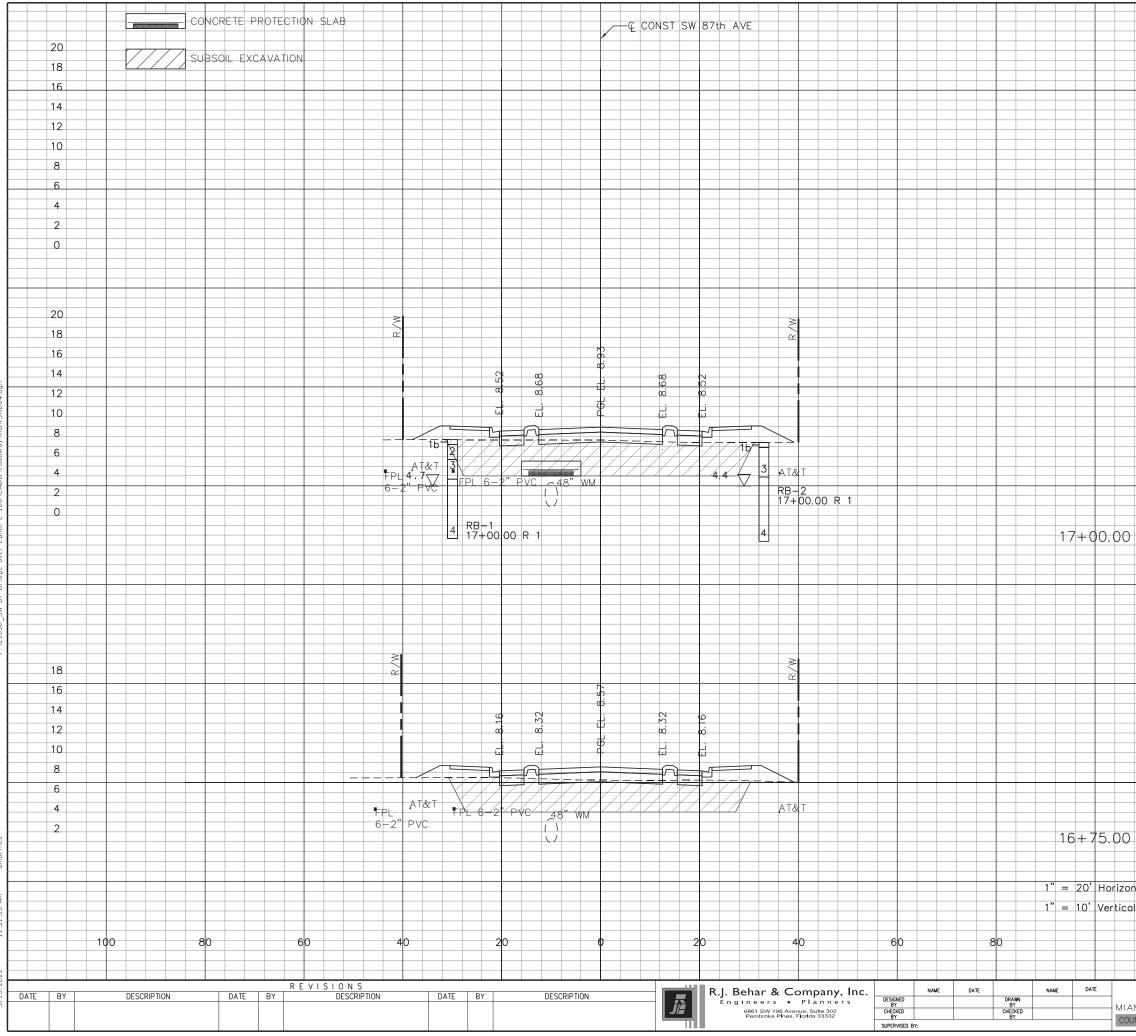
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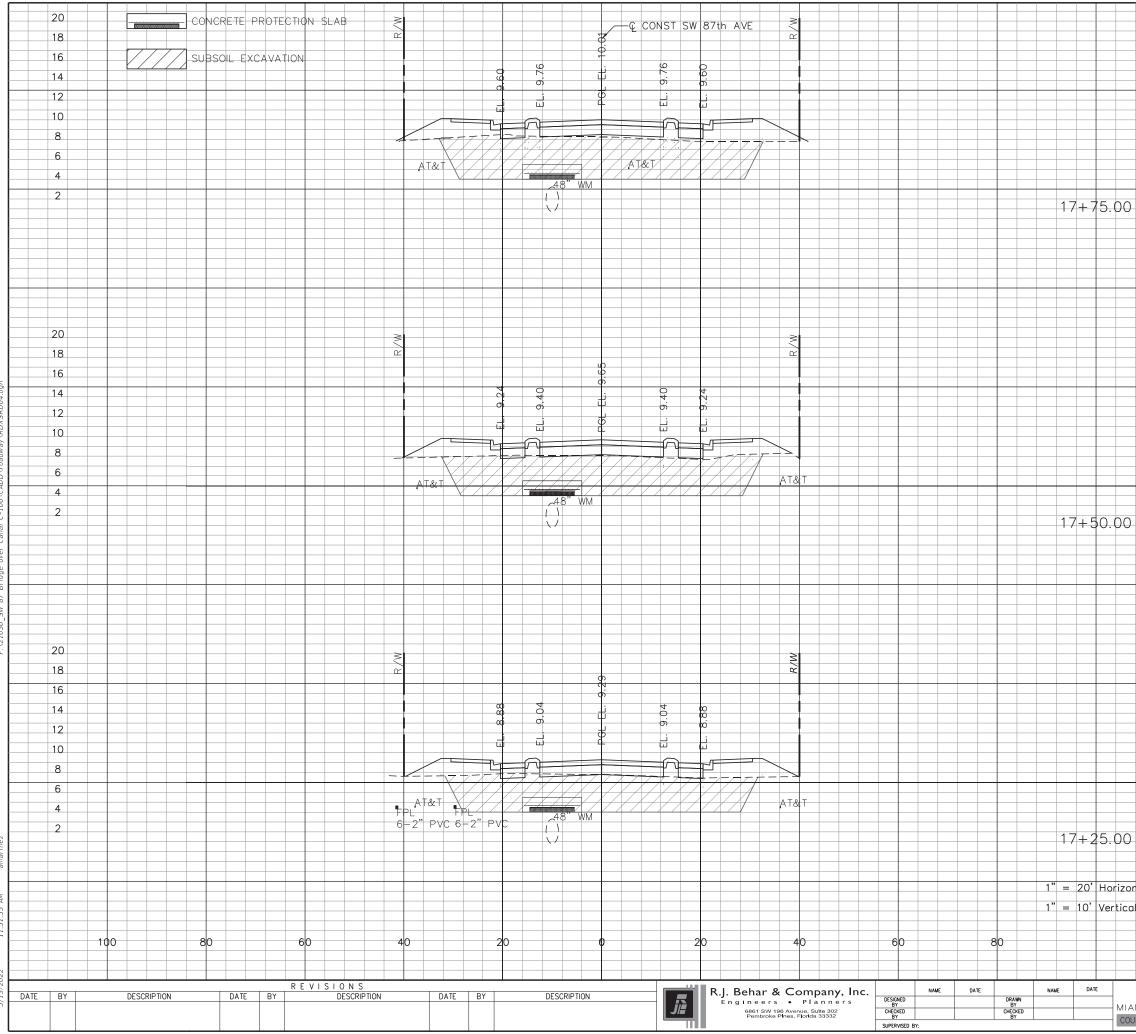
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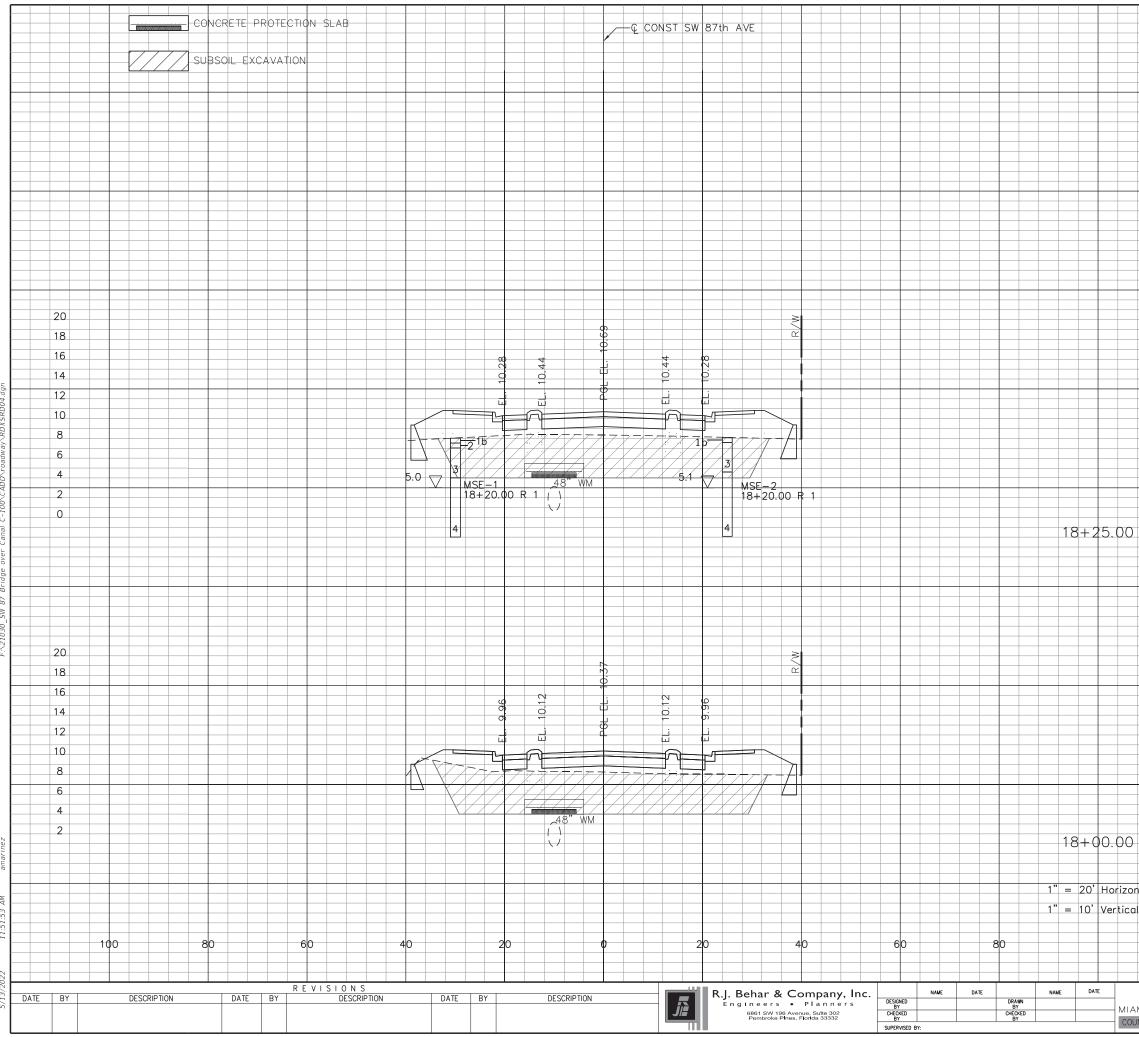
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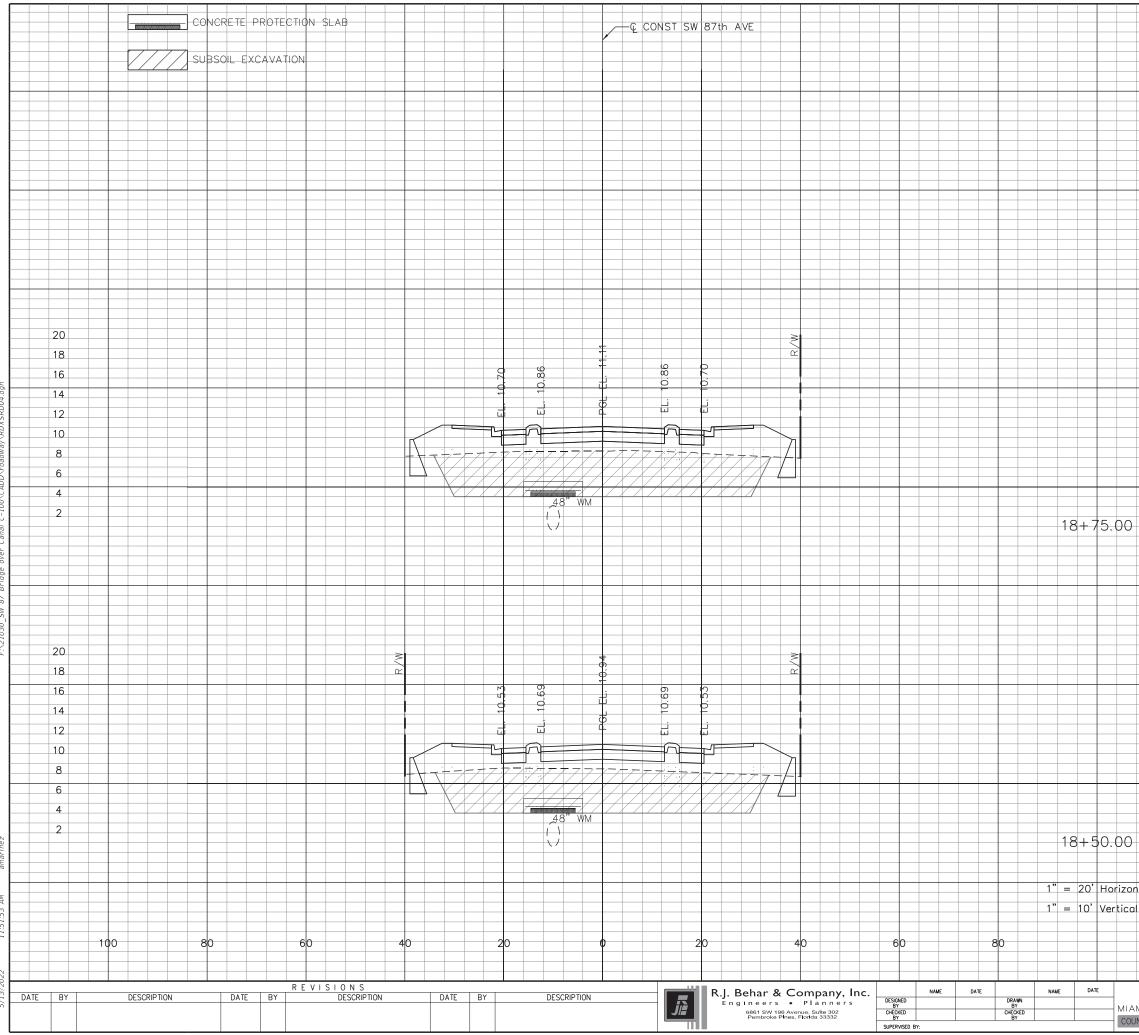
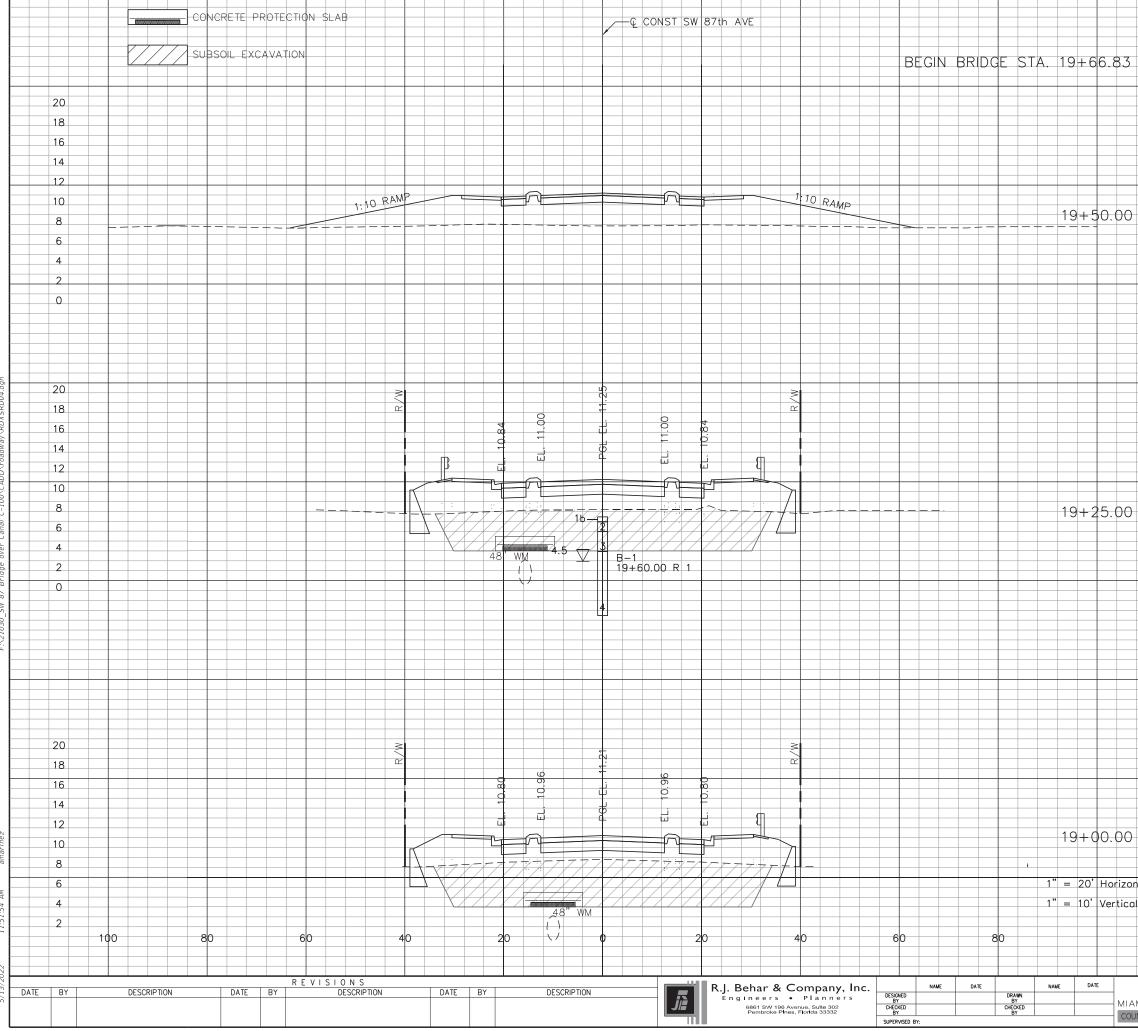
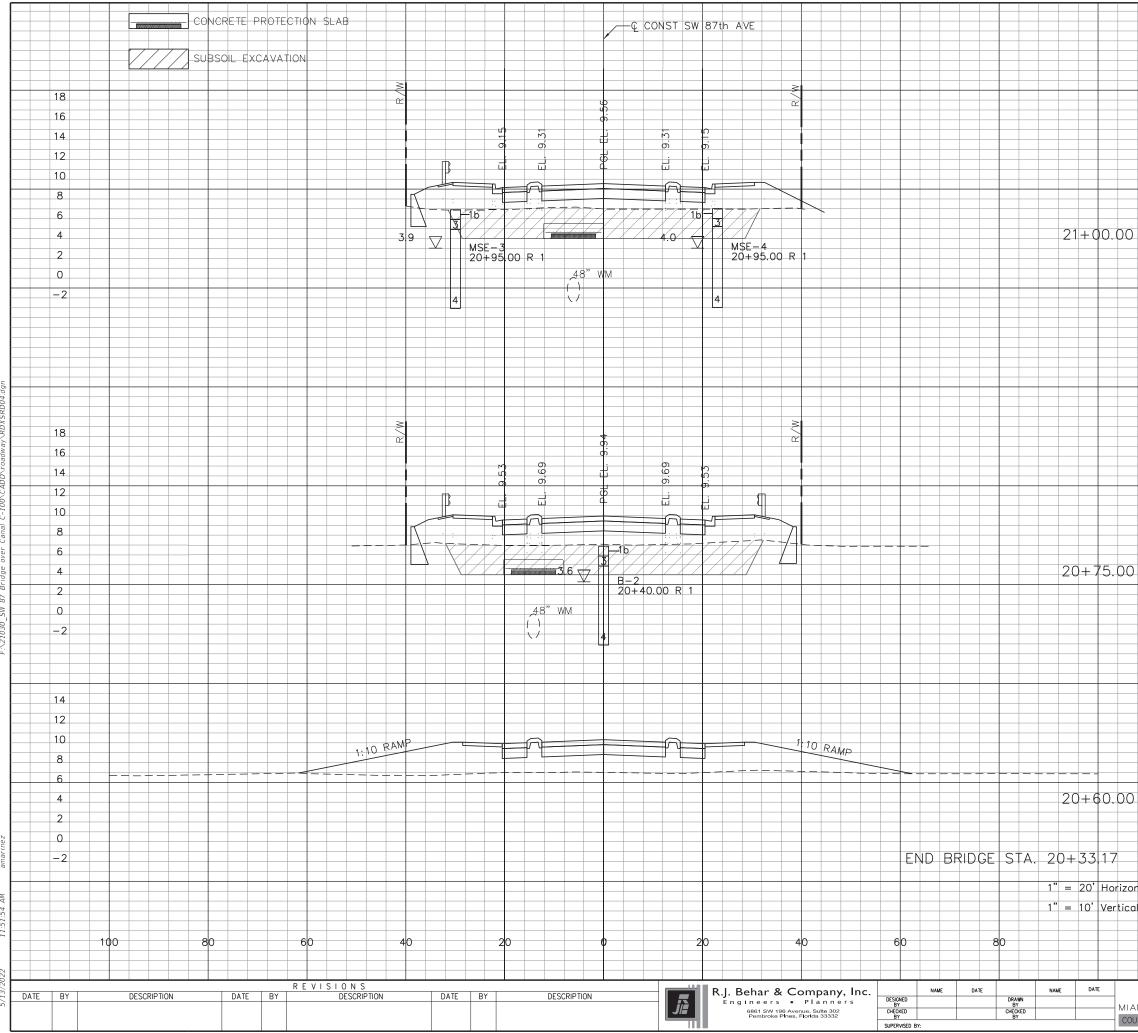


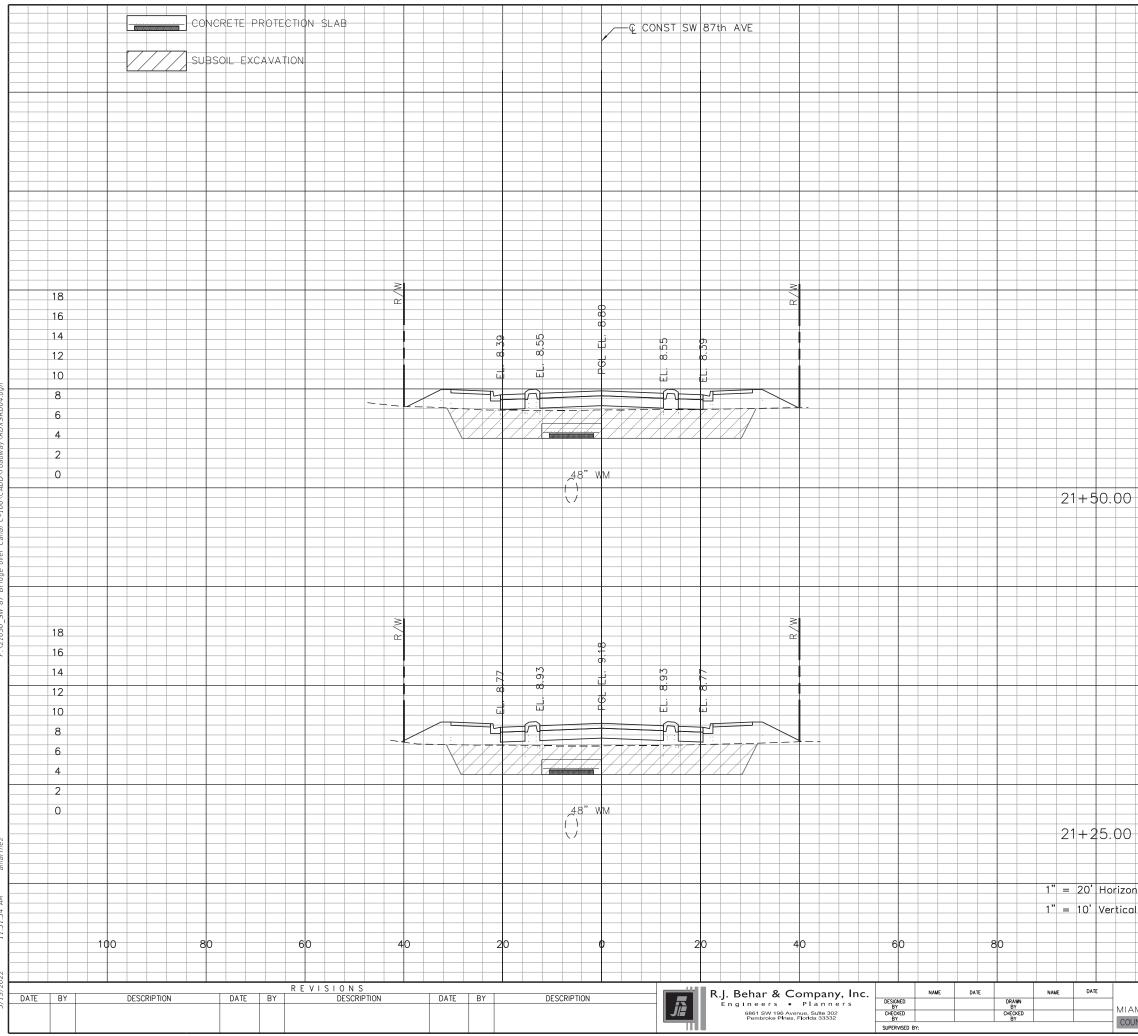
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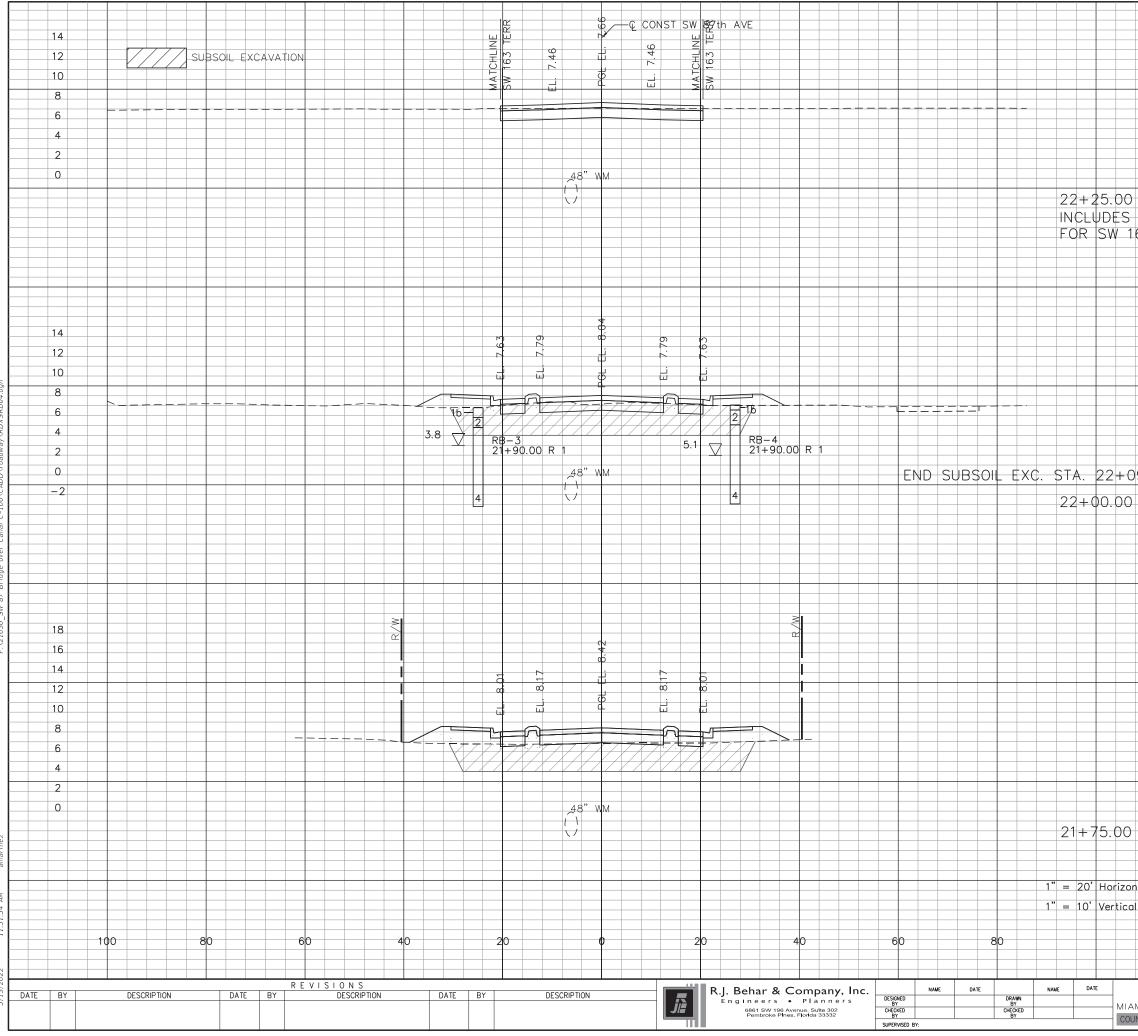
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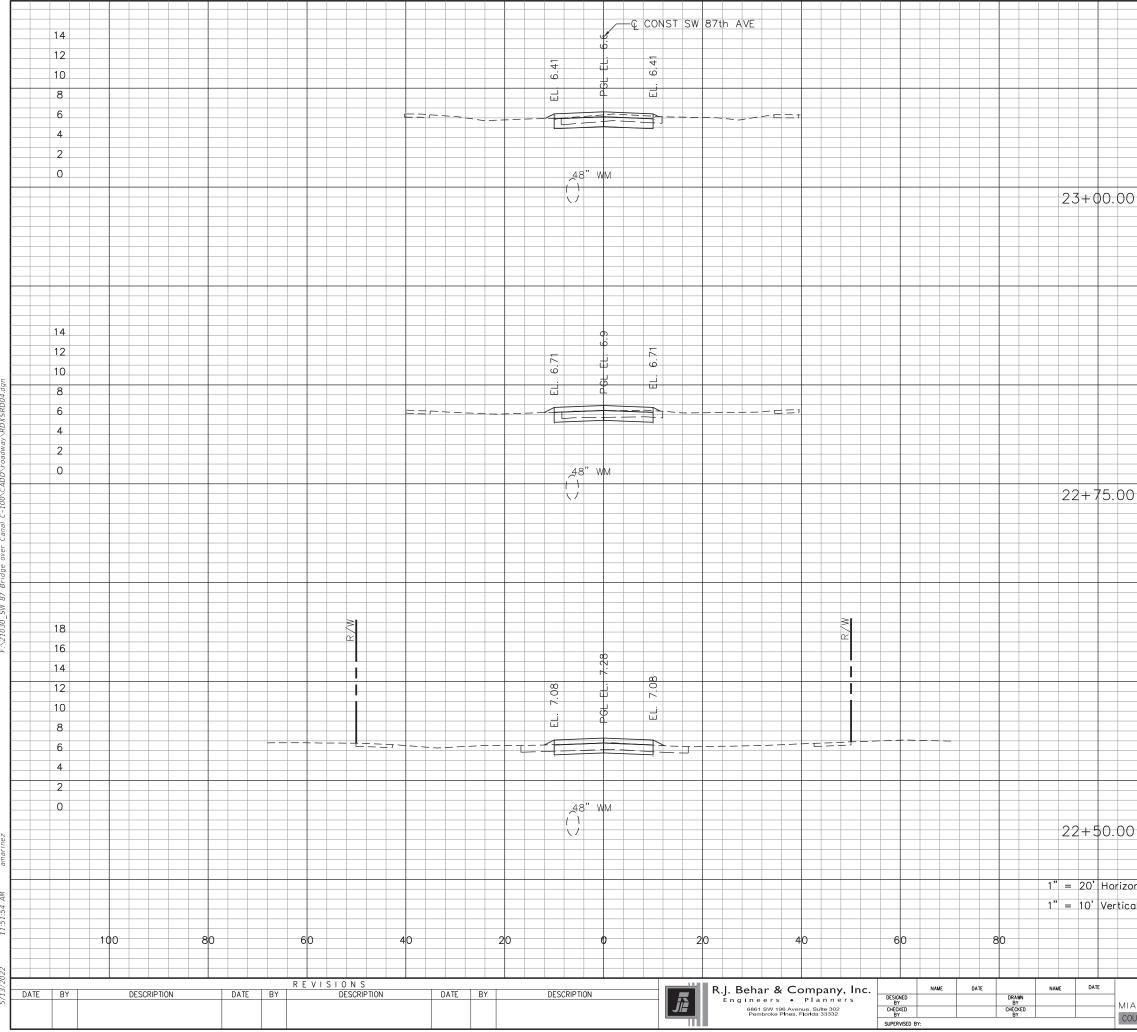
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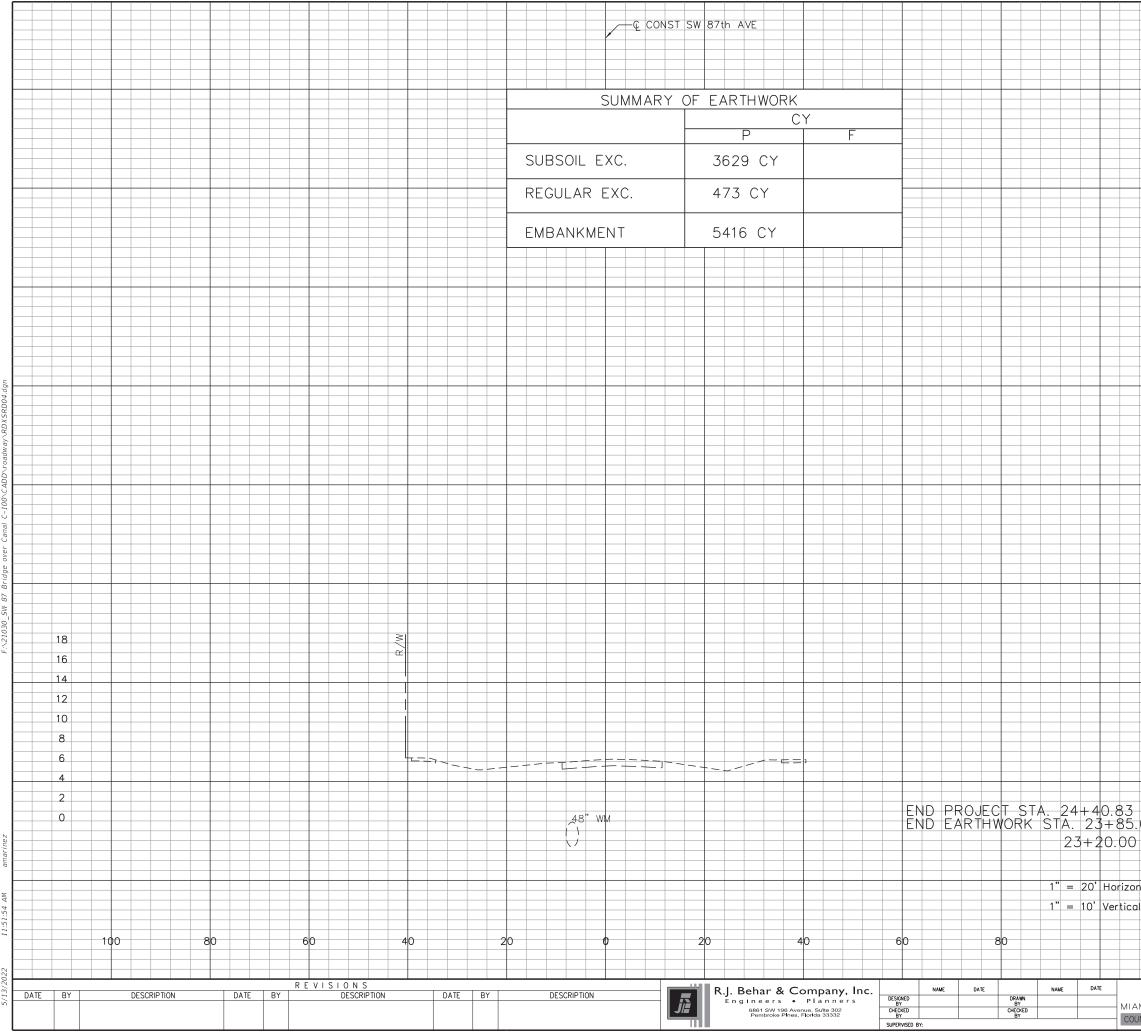
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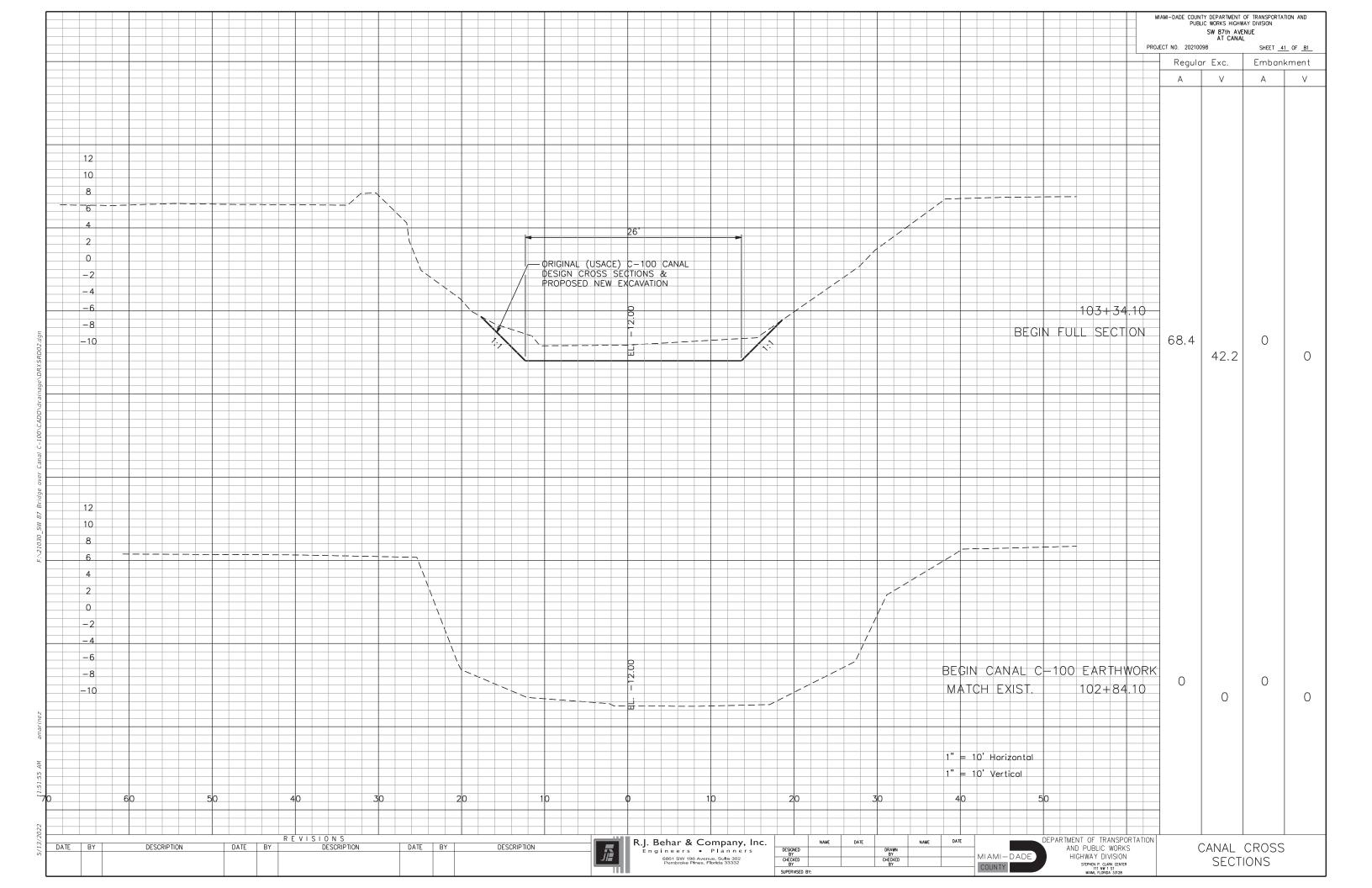
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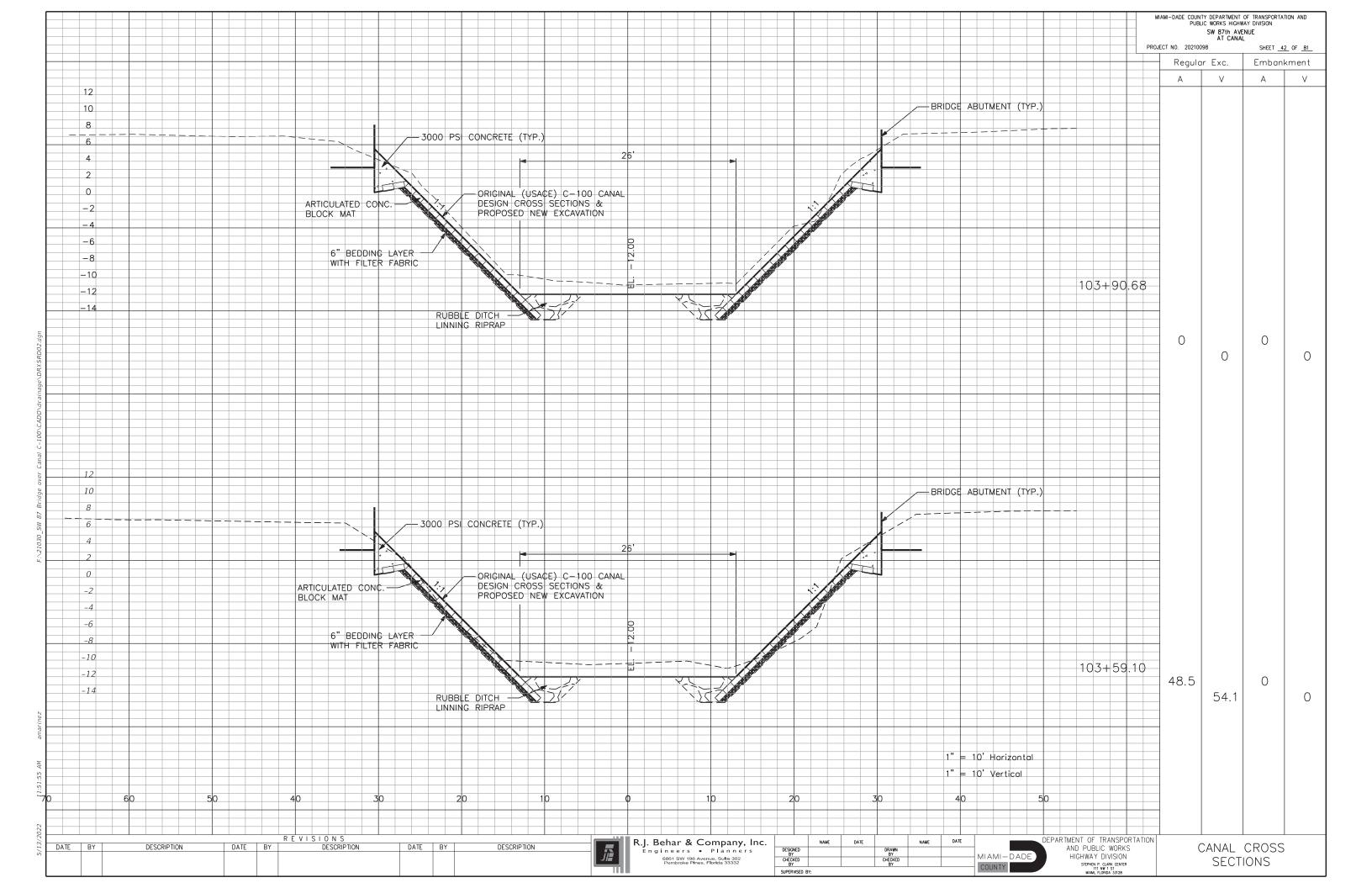


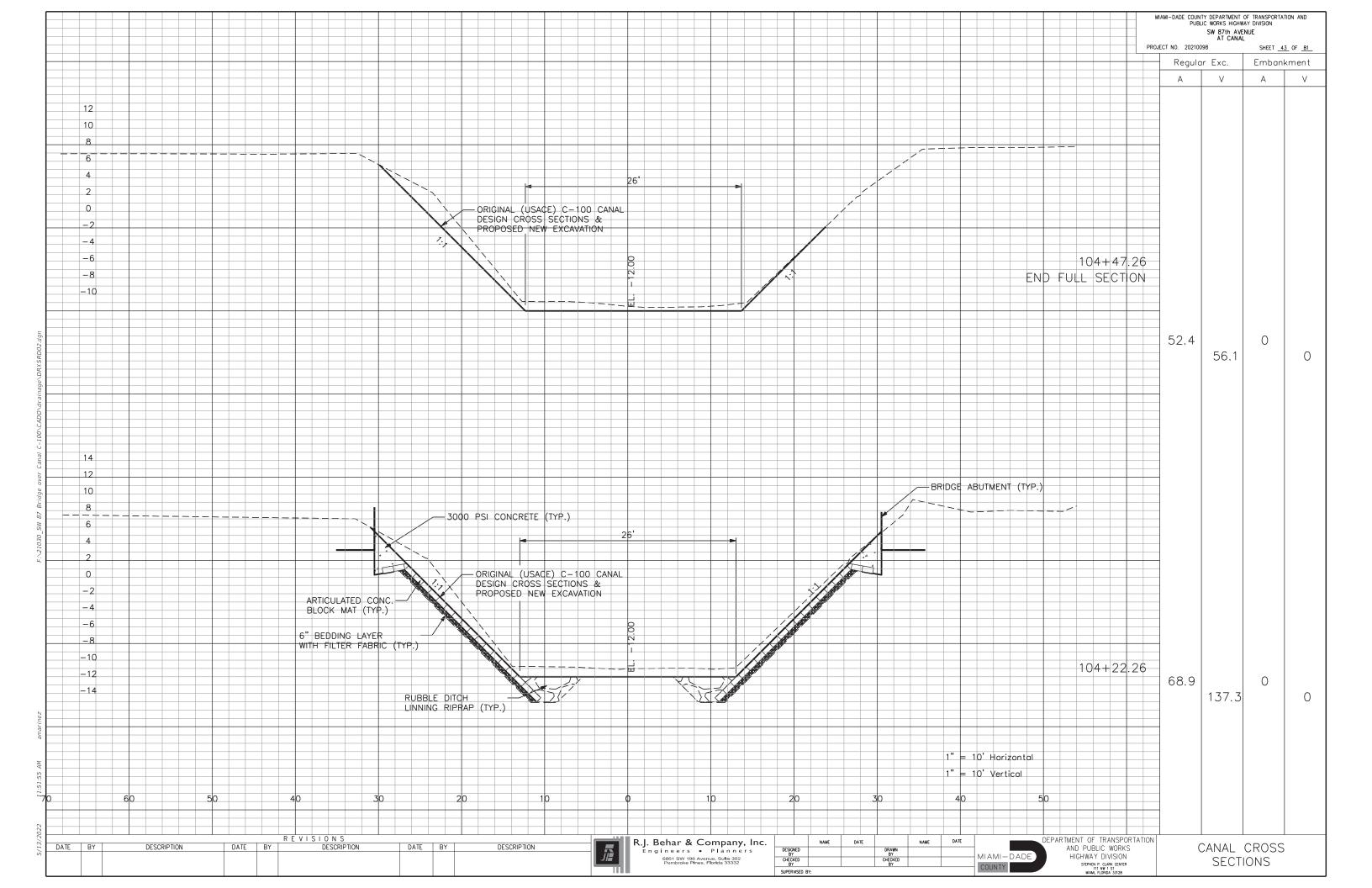
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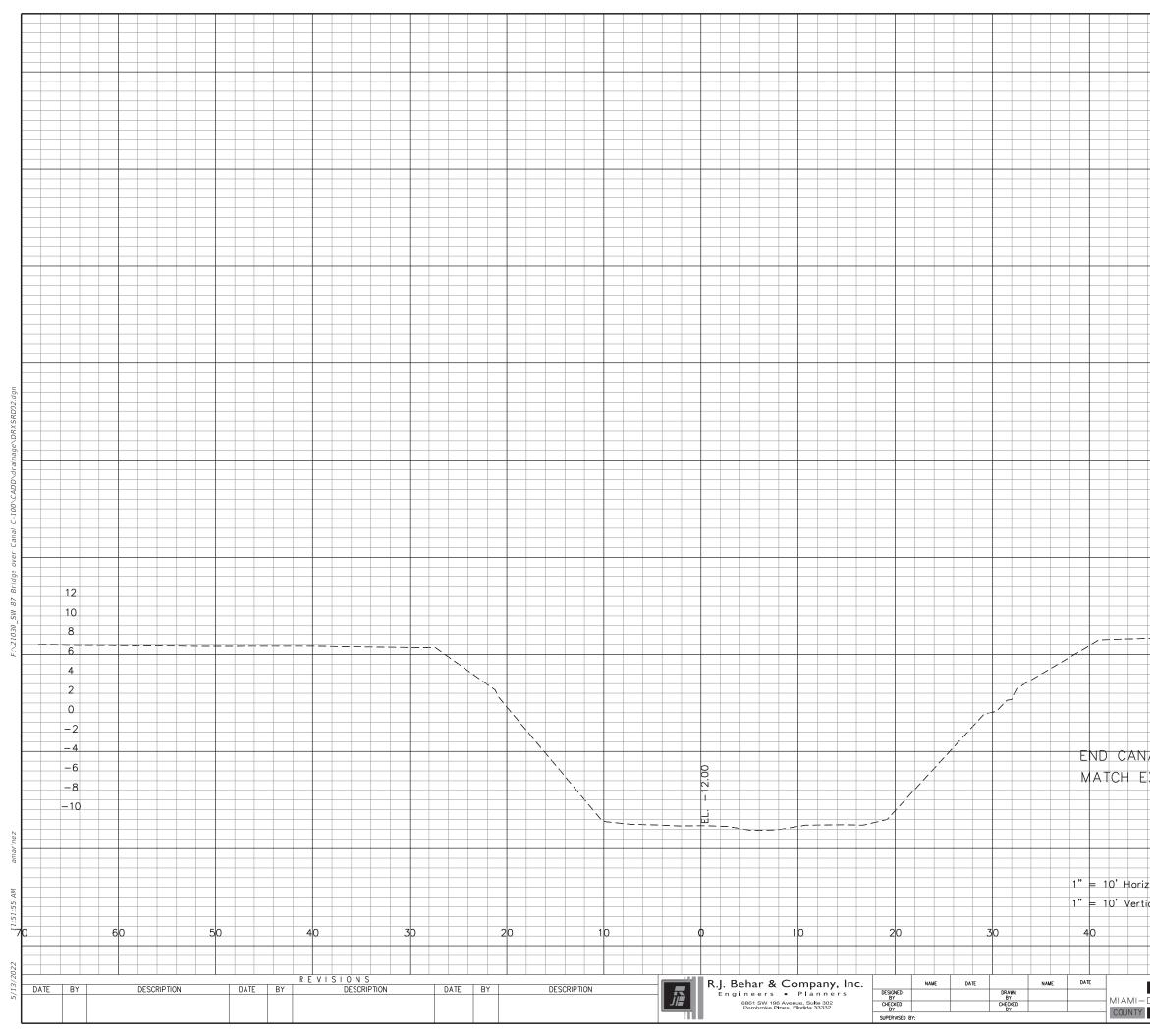


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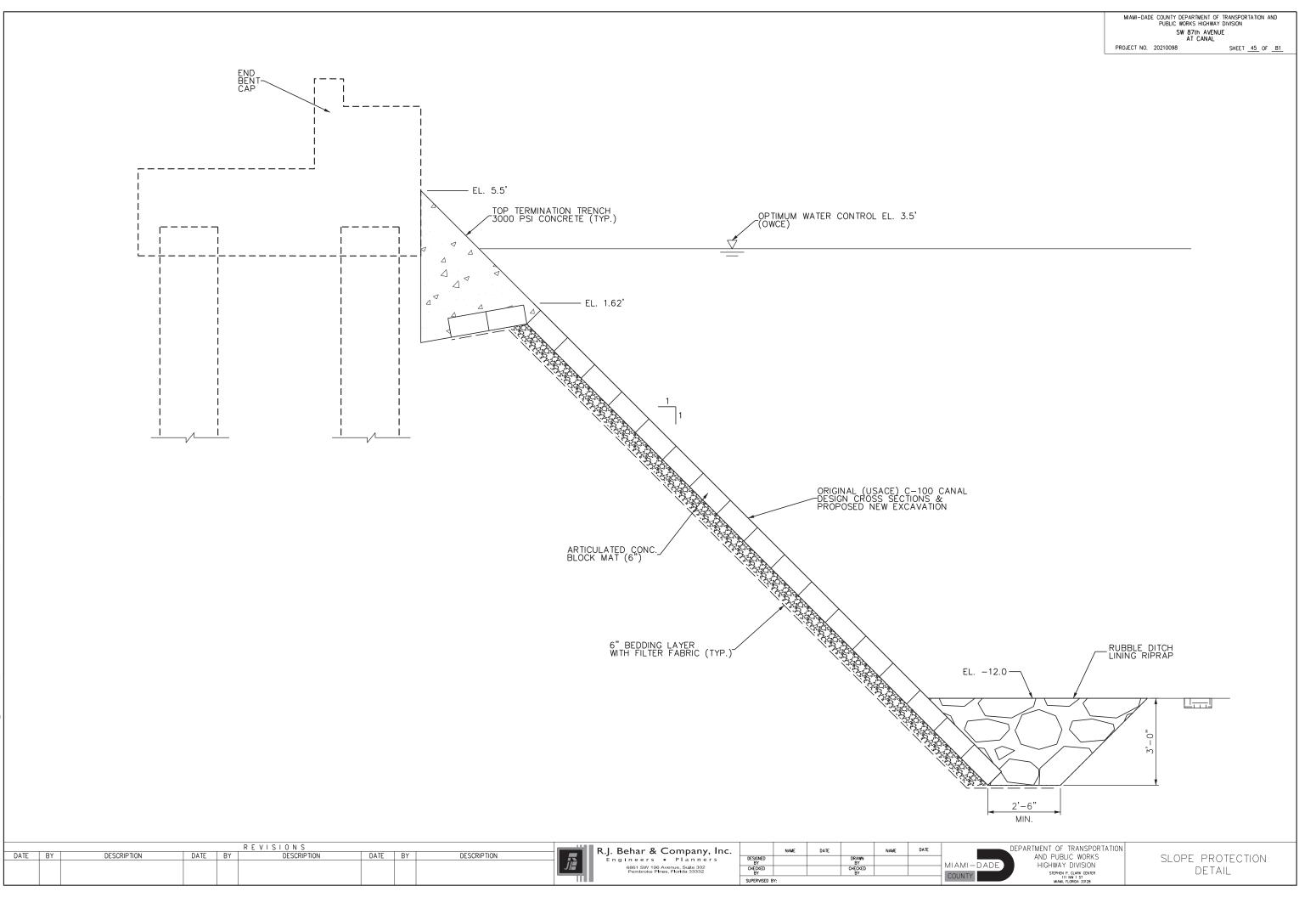








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## STORMWATER POLLUTION PREVENTION PLAN

#### NARRATIVE DESCRIPTION

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE CONTAINS REFERENCES TO THE CONTRACT DOCUMENTS, THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF SEVERAL ITEMS INCLUDING: THIS NARRATIVE DESCRIPTION, THE REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN (ECP) PREPARED AND SUBMITTED IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.a. NATURE OF CONSTRUCTION ACTIVITY:

S.W. 87TH AVENUE ROADWAY IMPROVEMENTS PROJECT CONSISTS OF APPROXIMATELY 0.221 MILES OF CORRIDOR (0.209 MILES OF ROADWAY AND 0.012 MILES OF BRIDGE) IMPROVEMENTS INCLUDING MILLING & PAVEMENT RESURFACING, ROADWAY WIDENING, NEW ROADWAY CONSTRUCTION, SIDEWALKS, BIKE LANES, TRAFFIC SEPARATORS, CONC. BARRIERS, GRAVITY WALLS, SWALES, BRIDGE CONSTRUCTION AND DRAINAGE IMPROVEMENTS. THE PROJECT LIMITS OF CONSTRUCTION ARE FROM APPROX. 350' SOUTH OF SW 164TH STREET TO APPROX. 220' NORTH OF SW 163RD TERRACE.

1.b. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

- a. CLEARING & GRUBBING AND EARTHWORK
- b. EARTHWORK ASSOCIATED WITH ROADWAY, SIDEWALK, SWALE, CURB AND GUTTER BASE AND PAVEMENNT, GRAVITY WALLS AND BRIDGE.
  c. CHANNEL EXCAVATION AND REVETMENT.
- 1.c. AREA ESTIMATES:

TOTAL SITE AREA: 1.12 AC. TOTAL AREA TO BE DISTURBED: 0.94 AC.

1.d. RUNOFF DATA:

RUNOFF COEFFICIENTS: BEFORE: C= 0.44 DURING: C= 0.65 AFTER: C= 0.86

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY CORRIDOR ARE SHOWN IN THE GEOTECHNICAL REPORT (PREPARED BY HR ENGINEERING SERVICES INC.) AND INCLUDED AS PART OF THE CONSTRUCTION DOCUMENTS.

1.e. SITE MAP:

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

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE ROADWAY CROSS SECTION SHEETS.
- \* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE ROADWAY PLAN SHEETS AND THE ROADWAY CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW THE EXISTING GROUND WILL BE DISTURBED.
- \* AREAS TO BE STABILIZED: AREAS WHERE PERMANENT STABILIZATION IS REQUIRED ARE INDICATED ON THE TYPICAL SECTIONS.
- \* SURFACE WATER: SURFACE WATER WITHIN THE PROJECT LIMITS INCLUDE THE SFWMD C-100 CANAL.
- \* DISCHARGE POINTS TO SURFACE WATERS: THERE ARE TWO EXISTING DISCHARGE POINTS. SEE ITEM I.F. FOR OUTFALLS LOCATION AND RECEIVING SURFACE WATER NAMES.

#### 1.f. OUTFALL INFORMATION:

THERE ARE TWO EXISTING OUTFALLS WITHIN THE PROJECT LIMITS AS OUTLINED BELOW:

DESCRIPTION: 48" ROUND PIPE WITH STRAIGHT ENDWALL LOCATION: LATITUDE 25\*37' 04"N, LONGITUDE 80\*19' 59" EST. DRAINAGE AREA SIZE: 11.89 ACRES RECEIVING WATER NAME: C-100

DESCRIPTION: 24" ROUND PIPE WITH STRAIGHT ENDWALL LOCATION: LATITUDE 25°37' 05", LONGITUDE: 80°19' 59"W EST. DRAINAGE AREA SIZE: 17.19 ACRES RECEIVING WATER NAME: C-100

#### 2.0 CONTROLS:

2.a. EROSION AND SEDIMENT CONTROLS:

IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR

MODIFY THEM IN THE EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADOPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES AND THE NEED FOR BETTER PRACTICES.

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

MAINTENANCE OF TRAFFIC NARRATIVE:

REFER TO TRAFFIC CONTROL PLANS AND NOTES. SEE ROADWAY PLANS.

2.a.1 STABILIZATION PRACTICES:

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

TEMPORARY: \* ARTIFICIAL COVERINGS

\* TURF AND SOD

PERMANENT: \* ASPHALT OR CONCRETE SURFACE

\* SOD

2.a.2 STRUCTURAL PRACTICES:

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

#### TEMPORARY:

- \* SILT FENCES AND INLET PROTECTION SYSTEM IN ACCORDANCE WITH THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL.
- \* TURBIDITY BARRIERS ON EACH SIDE OF CANAL WORK.

PERMANENT: \* SOD

## 2.b. STORMWATER

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2.c. OTHER CONTR

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2.c.2 OFF-SITE V

IN THE EROSION ( PROPOSED METHO SEDIMENTS AND ( AT LEAST THE FO

\* COVERING LOA

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\* STABILIZING C STORMWATER AND MIAMI-D

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 AS EXCAVATION

2.c.3 STATE AND SEWER, OR S

IN THE EROSION PROPOSED PROCE REGULATIONS FOF SYSTEMS.

2.c.4 FERTILIZERS

IN THE EROSION C PROCEDURES FOR

2.C.5 TOXIC SUBS

IN THE EROSION OF TOXIC SUBSTA PROVIDE A PLAN STORAGE, AND DI

3.0 MAINTENANCE

IN THE EROSION FOR MAINTAINING CONSTRUCTION. T THE FOLLOWING:

- INLET PROTECT
   AS REQUIRED
- FLOATING TUP

- SILT FENCE

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## 4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN. THE FOLLOWING, AT A MINIMUM, SHOULD BE INSPECTED WITH THE ABOVE-MENTIONED FREQUENCIES:

- \* POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- \* POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM SEWER SYSTEMS.
- \* DISTURBED AREAS OF THE SITE THAT HAVE BEEN FULLY STABILIZED.
- \* AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- \* STRUCTURAL CONTROLS.
- \* STORMWATER MANAGEMENT SYSTEMS.
- \* LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

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

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

## 5.0 NON-STORMWATER DISCHARGES

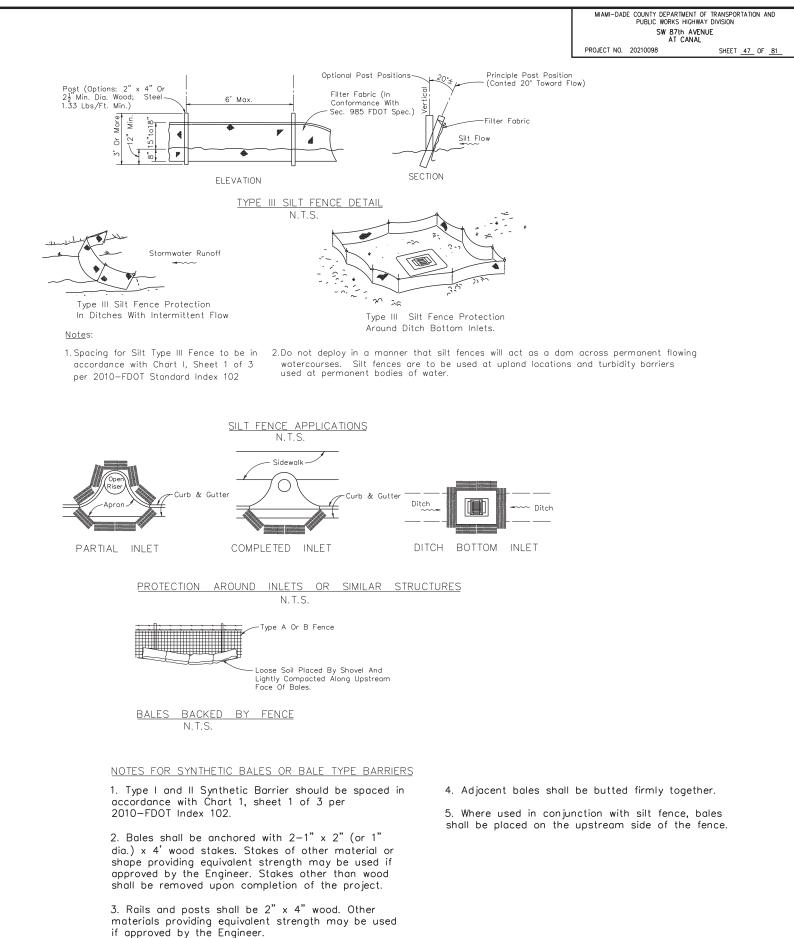
IN THE EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTIÓN OF THESE NON-STORMWATER DISCHARGES, IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT MIAMI-DADE COUNTY IMMEDIATELY.

#### 6.0 NPDES SUBMITTALS:

THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN EROSION CONTROL PLAN (ECP) TO MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION FOR REVIEW AND APPROVAL PRIOR TO THE CONTRACTOR'S SUBMITTAL FOR THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. IF THIS STORWATER POLLUTION PREVENTION PLAN (SWPPP) IS ADOPTED AS PART OF THE CONTRACTOR'S ECP FOR THE PROJECT, COPIES OF THE SWPPP SHEETS AND OTHER PLAN SHEETS INCLUDED BY REFERENCE SHALL BE INCLUDED WITH THE ECP SUBMITTAL. THE CONTRACTOR MAY ELECT TO SUBMIT A REVISED SWPPP THAT IS IN COMPLIANCE WITH STORMWATER REGULATIONS AT 40 CFR 122.26 (BX14) AND STATE WATER QUALITY STANDARDS.

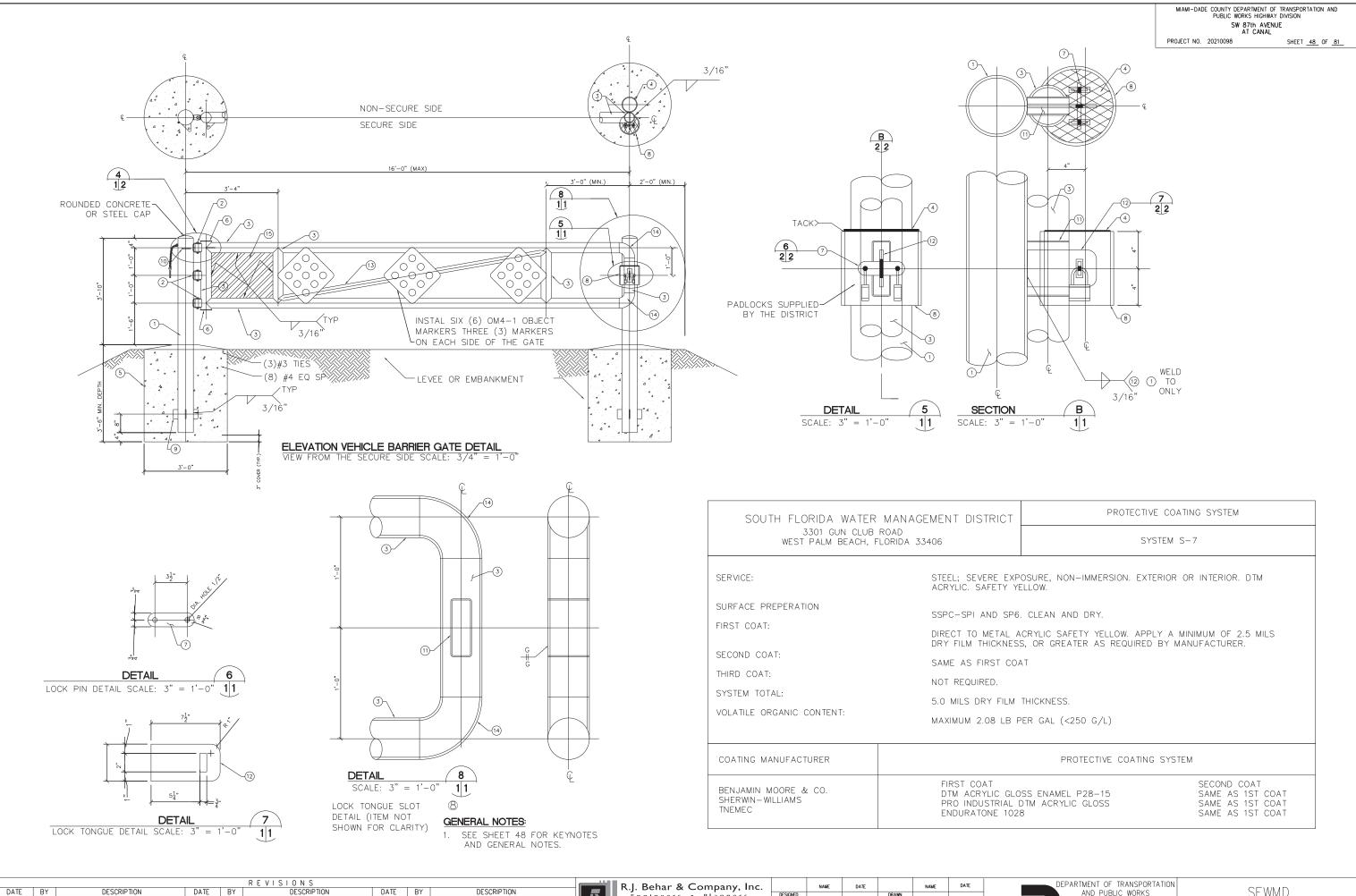
THE CONTRACTOR SHOULD BE AWARE THAT MODIFICATION OF THE TRAFFIC CONTROL PLANS MAY REQUIRE THE CONTRACTOR TO MODIFY THE SWPPP. THE CONTRACTOR'S MODIFIED SWPPP MUST BE PROVIDED TO MIAMI-DADE COUNTY FOR REVIEW PRIOR TO THE DEP APPLICATION SUBMITTAL.

THE NPDES PERMIT APPLICATION SHOULD BE SUBMITTED TO THE DEP THIRTY (30) DAYS BEFORE TO ANY CLEARING AND GRUBBING ACTIVITIES. NO SOIL DISTURBING ACTIVITIES CAN BE CONDUCTED UNTIL THE NPDES PACKAGE HAS BEEN MAILED TO THE FDEP, PROCESSED, AND APPROVED.



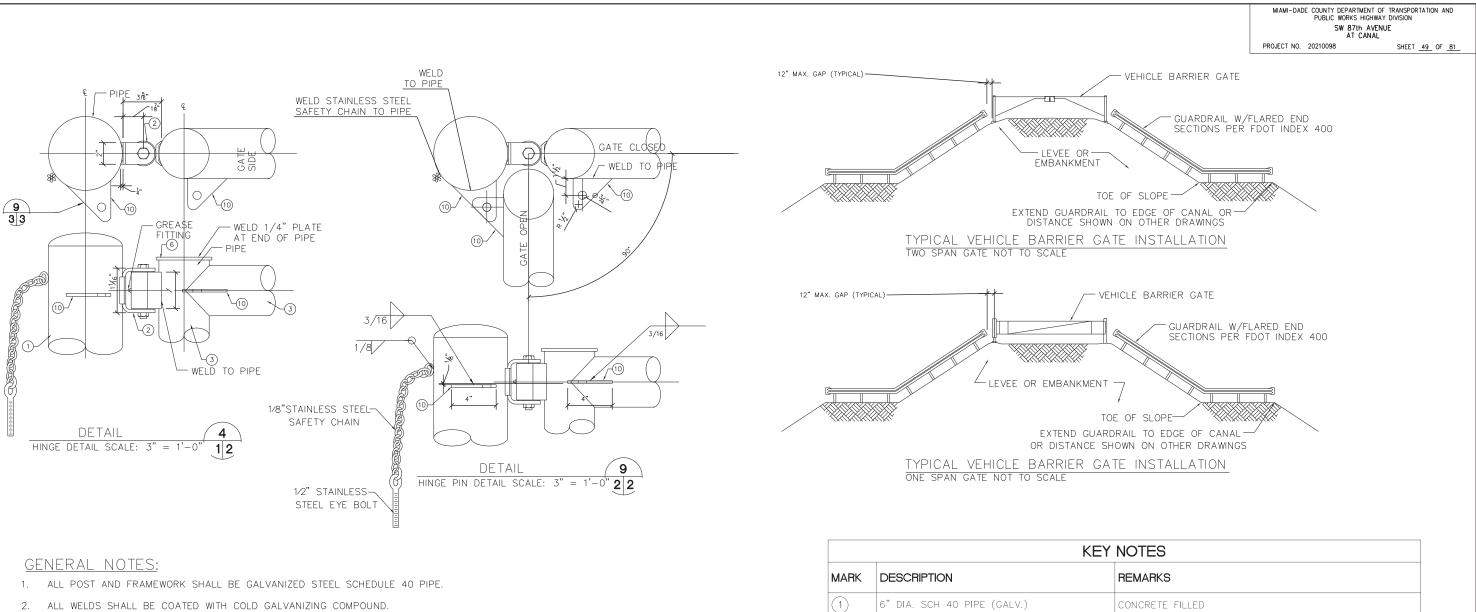
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R.J. Behar & Company, Inc. Engineers • Planners DATE BY DESCRIPTION DESCRIPTION DATE BY DESCRIPTION DESIGNED BY BY CHECKED BY М 6861 SW 196 Avenue, Suite 302 Pembroke Pines, Florida 33332 COUNT SUPERVISED BY:

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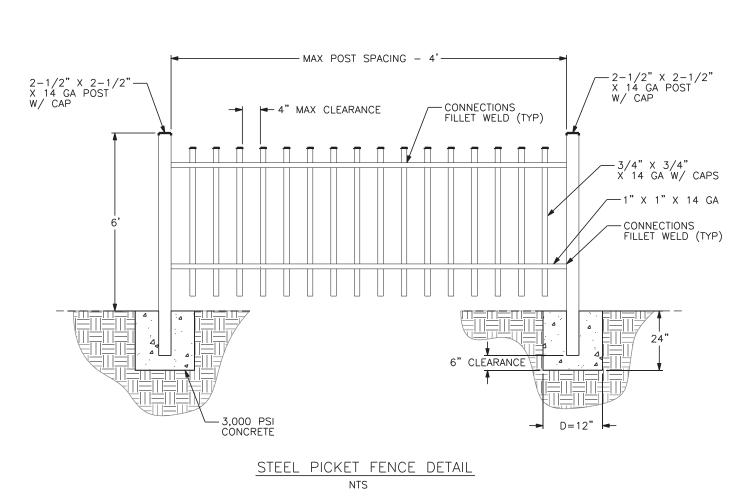


- 3. ALL JOINTS SHALL BE WELDED ALL AROUND AND WELDS TO BE GROUND SMOOTH.
- 4. WELDS AT HINGE SHALL BE SIZED TO DEVELOP FULL CAPACITY OF THE HINGE.
- 5. FINISH FOR ALL METAL SURFACES SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM 123.
- 6. PADLOCKS TO BE PROVIDED BY DISTRICT.
- 7. ALL CONCRETE SHALL BE 3,000 PSI.
- 8. ALL EXPOSED STEEL SURFACES OF THE GATE SHALL BE COATED WITH COATING SYSTEM S-7. COATING COLOR SHALL BE OSHA SAFETY YELLOW.
- 9. GATES TO SWING IN TOWARD THE SECURE SIDE OF FACILITY ACCESS ROAD.
- 10. USE HEAVY DUTY ROLLER BEARING HINGE AS MANUFACTURED BY GUARDIAN, OR APPROVED EQUAL. MINIMUM HINGE CAPACITY 3000 LB. PER PAIR.
- 11. SUBMIT SHOP SUBMITTALS INDICATING DIMENSIONS, WELDMENTS, DETAILS, HINGES AND ASSEMBLIES.
- 12. SPECIFY CABLE AND CHAIN BERM BARRIERS AT LOCATIONS DESIGNATED BY THE DISTRICT AS HIGH SECURITY.

	KEY	NOTES
MARK	DESCRIPTION	REMARKS
1	6" DIA. SCH 40 PIPE (GALV.)	CONCRETE FILLED
2	HEAVY DUTY HINGE, (GALV.)	(3) REQ'D. FOR (1) SPAN (SEE NOTE 10)
3	4" DIA. SCH 40 PIPE (GALV.)	
4	EXPANDED METAL COVER	
5	CONCRETE BASE	3000 PSI
6	1/4" PLATE (GALV.)	CAP PLATE (TOP AND BOTTOM)
7	1/4" PLATE (GALV.)	LOCK PIN
8	8" DIA. SCH 40 PIPE (GALV.)	
9	1/4"x 2"x 4" PLATE (GALV.)	(4) EACH REQ'D PER POST
(10)	1/4" PLATE (GALV.)	HINGE PIN
(11)	HHS (HOLLOW STRUCTURAL SECTION) $6"\times 2"\times \frac{1}{8}"$	SLOT LINER FOR LOCK PIN TONGUE
(12)	1/4" PLATE (GALV.)	LOCK PIN TONGUE
(13)	2" DIA SCH 40 PIPE (GALV)	
(14)	4" DIA SCH 40 90° PIPE ELBOW (GALV)	
(15)	1/4" PLATE (GALV.)	

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NOTE: STEEL PICKET FENCE SHALL BE PAINTED BLACK.

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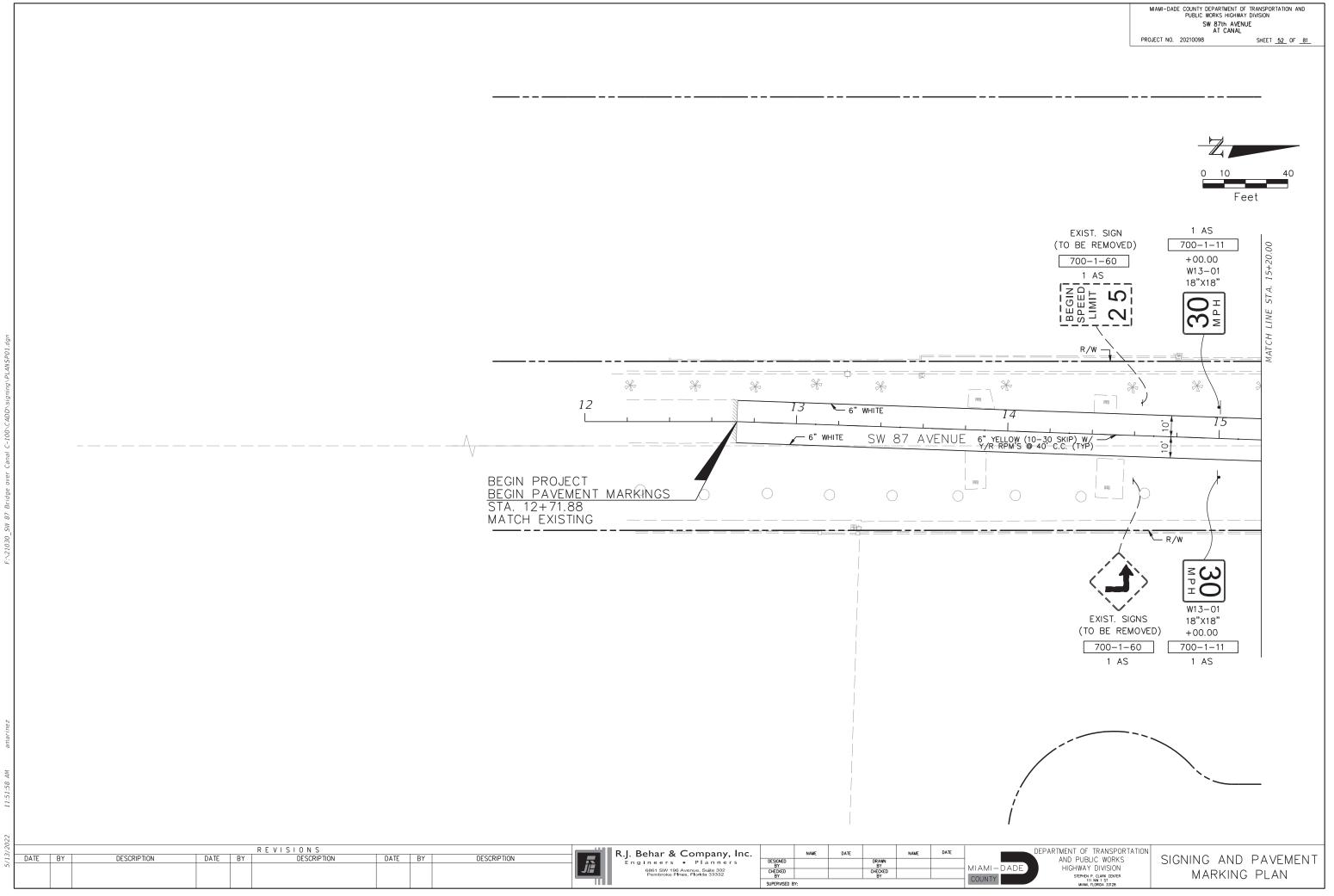
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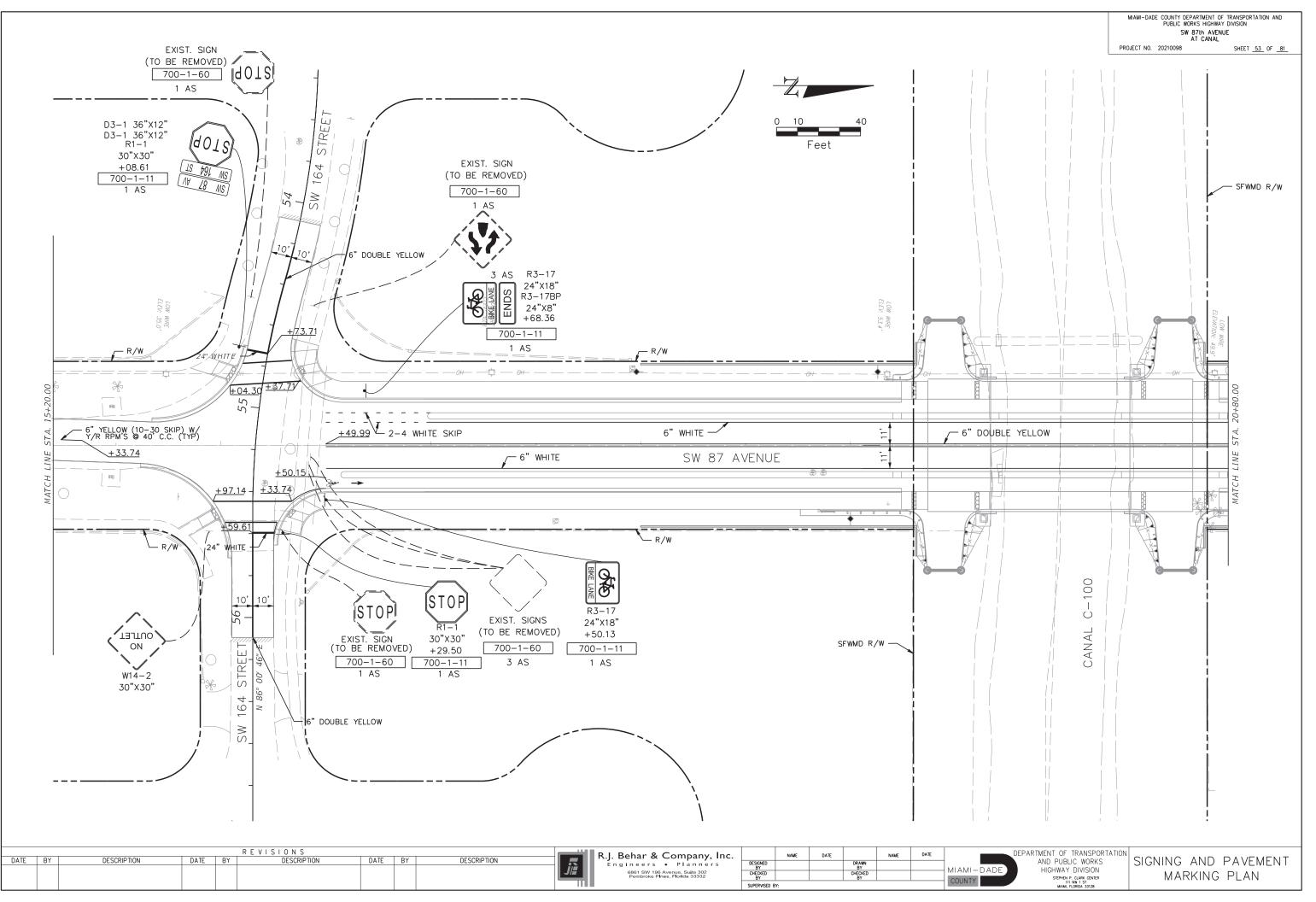


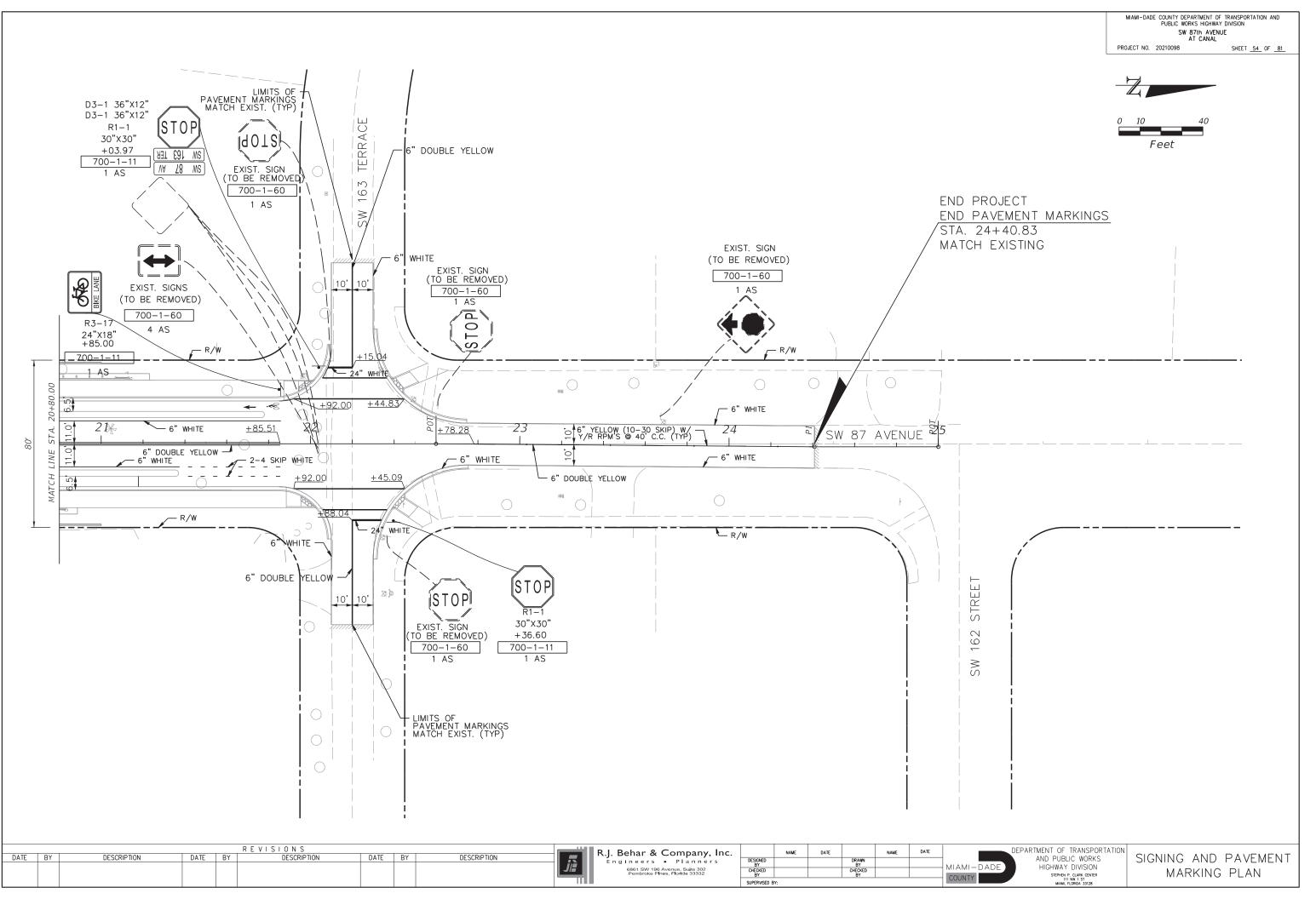
PAY				SHEET	NUMB	ERS		GRAND	
ITEM NO.	DESCRIPTION	UNIT	SHEET 51	SHEET 52		SHEET 5		TOTAL	
0-1-11B	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	AS	PLAN FINAL	PLAN	FINAL	PLAN FI	IAL PI	LAN FINAL	
0-1-60	SINGLE POST SIGN, FAI, GROUND MOUNT, OF TO T2 SF	AS	2	(	5	8		16	
0-13-15	RETROREFLECTIVE SIGN STRIP, F&I, 5'	EA	_	2	2	3		5	
0-11-121 0-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6" PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF LF	581	1426		898 168		2905 288	1
0-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12 PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"			2		26		47	
0-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	-		1	1		2	
0-11-170 0-11-221	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	EA LF	_	1162	1	1 528		2 1690	1
0-11-241B	PAINTED PAVEMENT MARKINGS, STANDARD, TELLOW, SOLID, 6 PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP (10–30), 6"	LF	264	5.		158		475	
0-15-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP (2–4), 6"	LF	_	106	5	106		211	
1-2 1-11-241	SKIP TRAFFIC STRIPE (WHITE THERMOPLASTIC)(6' WIDE) THERMOPLASTIC, YELLOW, SKIP, 6"	LF LF		100		106 158		211 475	4
1-11-241	THERMOPLASTIC, TELLOW, SKIP, 6 THERMOPLASTIC, STD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	264	120		158		288	
1-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	_	2	1	26		47	1
1-14-160-BIKE	THERMOPLASTIC, PREFORMED, BICYCLE MESSAGE AND ARROW	EA		116		2		4	4
1-15-201A 1-16-101A	THERMOPLASTIC, STANDARD OPEN-GRADED ASPHALT SURFACES, YELLOW, SOLID, 6" THERMOPLASTIC, STANDARD, OTHER SURACES, WHITE, SOLID, 6"	LF LF	- 581	1162 1426		528 898		1690 2905	
6-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	6			4		10	1
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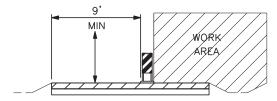
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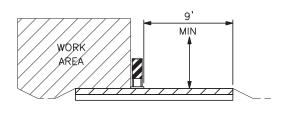
# TTCP GENERAL NOTES

- 1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS. THE CURRENT EDITION OF THE FLORIDA D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
- 2. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC.
- 3. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 4. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED (I.E. NARROWING OR CLOSING TRAVEL LANES) BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR, MATERIALS AND EQUIPMENT ARE AVAILABLE FOR CONSTRUCTION IN THAT AREA.
- 5. A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE KEPT OPEN AT ALL TIMES. THE TEMPORARY LANE CLOSURES SHALL OCCUR ONLY DURING NON-PEAK HOURS OR NON-SPECIAL EVENT WEEKENDS. PEAK HOURS ARE FROM 6:00 AM TO 9:00 AM AND FROM 3:30 PM TO 6:30 PM DAILY. MILLING & RESURFACING SHALL BE DONE FROM 9:00 AM TO 3:30 PM ONLY. SPECIAL EVENTS SHALL BE NORMALLY SCHEDULED BY LOCAL MUNICIPALITIES.
- 6. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE 35 M.P.H. FOR SW 87TH AVE AND 25 MPH FOR SW 164TH ST AND SW 163RD TERR.
- 7. AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY FOR MAINTENANCE OF TRAFFIC.
- CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS 8. THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS (TCP). WHEN THE CONFLICT NO LONGER EXISTS. THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSISTION. COST OF TEMPORARILY REMOVING, RELOCATION, COVERING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC.
- 9. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
- 10. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATION AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM MAINTENANCE OF TRAFFIC.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS INCLUDING USE OF TEMPORARY PUMPS AND PIPES, UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE STORM WATER SHALL BE INCLUDED IN PAY ITEM MAINTENANCE OF TRAFFIC.
- 12. CONTRACTOR SHALL COORDINATE HIS STAGING AREAS WITHIN THE AVAILABLE RIGHT-OF-WAY AND LOCAL MUNICIPALITIES AND AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL MEET ALL LOCAL CODES.

- 13. ALL PROPERTIES SHALL HAVE ACCESS AT ALL TIMES. THIS WILL REQUIRE COORDINATION WITH THE PROPERTY OWNERS AND/OR RESIDENTS, AND USE OF TEMPORARY STEEL PLATING AS REQUIRED. IF A DRIVEWAY CLOSURE IS NECESSARY. THE PROPERTY OWNER AND/OR RESIDENT SHALL BE NOTIFIED SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE IN ADDITION TO THE LOCATION OF THE TEMPORARY ACCESS. IF THE PROPERTY HAS MORE THAN ONE DRIVEWAY. AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN TO MAINTAIN ACCESS. THE COST OF THIS SHALL BE INCLUDED IN PAY ITEM FOR, MAINTENANCE OF TRAFFIC.
- 14. IN THE EVENT OF A HURRICANE OR OTHER EVACUATION NEED, THE CONTRACTOR WHEN NOTIFIED BY THE ENGINEER, SHALL COORDINATE THE SECURING OF ALL LOOSE MATERIAL, OPEN CLOSED LANES, BACK FILL EXCAVATIONS, REMOVE OBSTRUCTIONS TO DRAINAGE AND WATER FLOW, AND ANY OTHER MEASURES REQUIRED BY THE ENGINEER.
- 15. RESURFACING CAN ONLY BE DONE IN ONE DIRECTION AT A TIME.
- 16. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE SAFELY MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND CHANNELIZATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF A 4 FEET WIDE WITH A SMOOTH SURFACE THAT IS NOT SLICK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST TO CONSTRUCT AND MAINTAIN THE SAFE TRAVEL PATH AS REQUIRED SHALL BE INCLUDED IN PAY ITEM FOR MAINTENANCE OF TRAFFIC. SEE INDEX 102-660. GUIDE PEDESTRIAN TRAFFIC TO NEAREST SAFE CROSSING WITH APPROPRIATE SIGINING.
- 17. CONTRACTOR SHALL SUBMIT A DETAILED TEMPORARY TRAFFIC CONTROL PLAN FOR APPROVAL BY THE OWNER PRIOR TO START WORK.
- 18. CONTRACTOR SHALL CONSTRUCT A TEMPORARY DRAINAGE SYSTEM OF THE SAME SIZE AS THE EXISTING OUTFALL (EX-12) TO PROVIDE SERVICE DURING CONSTRUCTION OF NEW SYSTEM, S-19 TO S-15. COSTS TO BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.



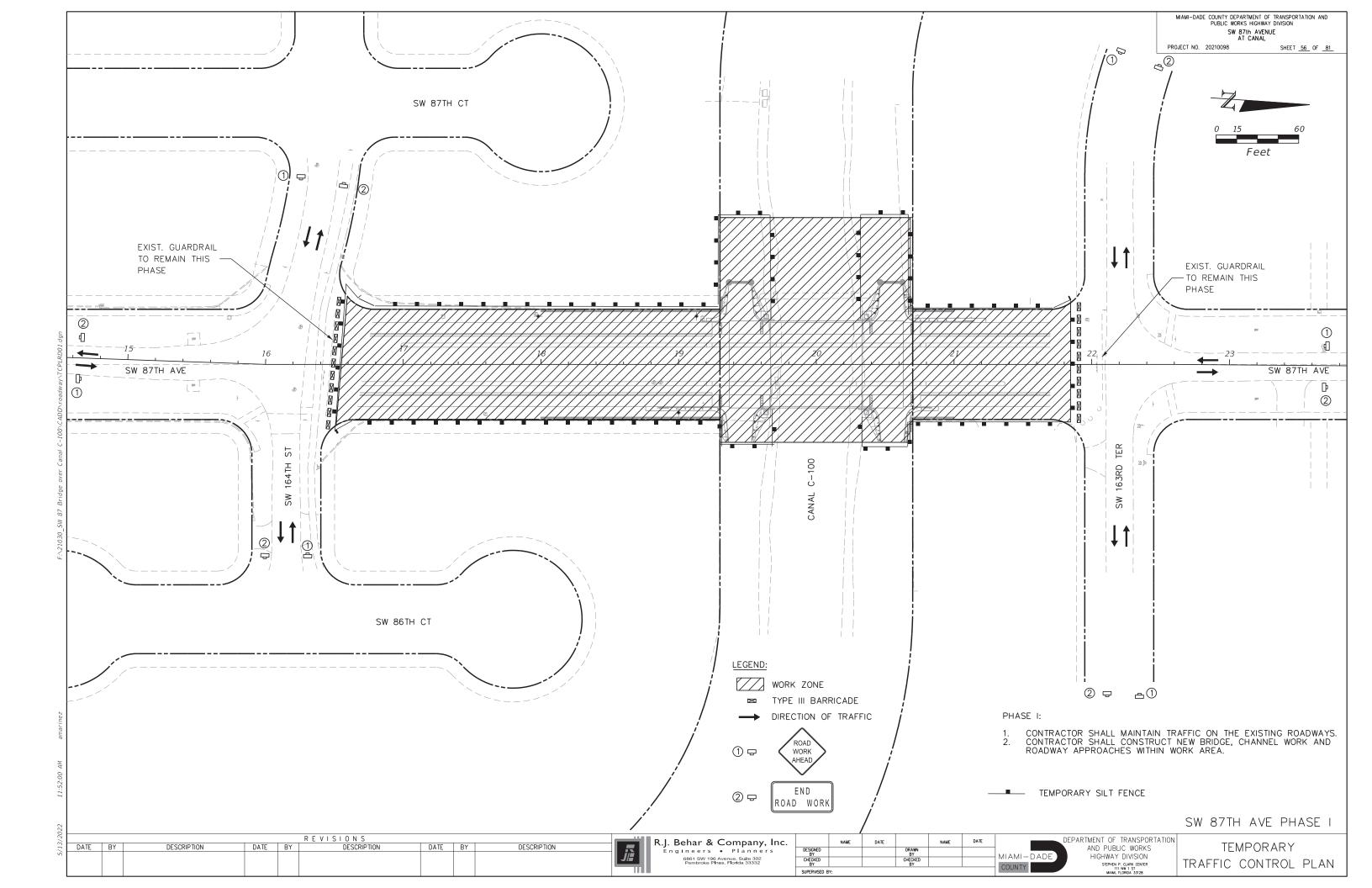
TYPICAL SECTION SW 87TH AVE PHASE II

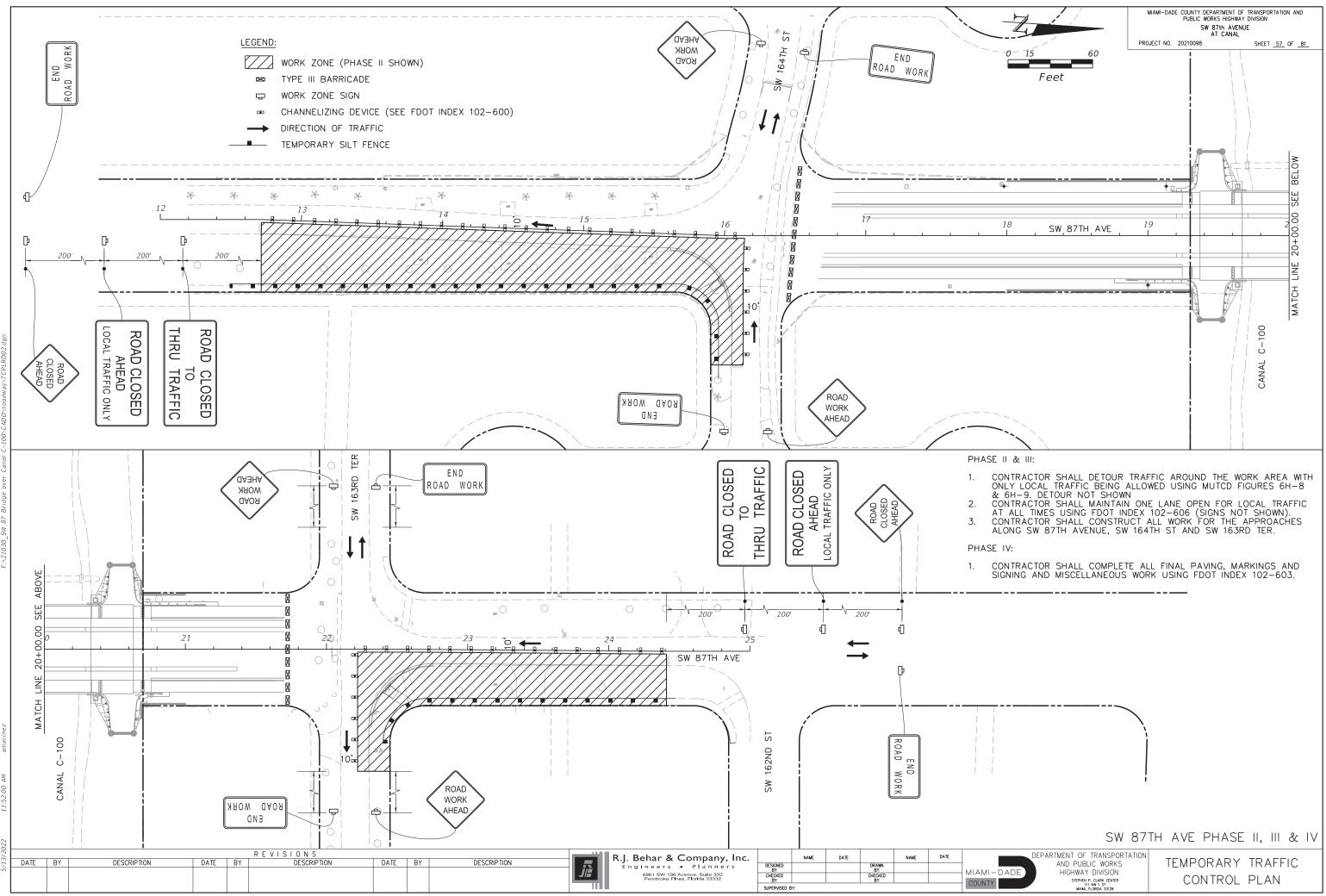


TYPICAL SECTION SW 87TH AVF PHASE III

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