

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

VILLAGE OF PALMETTO BAY

File Name: P:\Projects\2021\214326 Palmetto Bay - Professional Consulting Services\214326.1 Palmetto Bay Drainage Sub-Basins 57&96 Improvements\CADD Files\Drawings\214326.1-C-COVR.dwg - (Plotted by: Sebastian Sorio on Friday, August 4, 2023 4:24:59 PM)

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CITY OFFICIALS

MAYOR:	KARYN CUNNINGHAM
VICE-MAYOR:	LEANNE TELLAM
COUNCILMEMBER:	PATRICK FIORE
COUNCILMEMBER:	STEVE CODY
COUNCILMEMBER:	MARSHA MATSON
VILLAGE MANAGER:	NICK MARANO



LOCATION MAP
Scale: 1" = 500'

NOTES:

- RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
- AN ELECTRONIC CAD FILE CAN BE PROVIDED FOR SURVEY LAYOUT.

BENCHMARK:

ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) AS REFERENCED TO MIAMI-DADE COUNTY BENCHMARK B-270-R REFERENCED BELOW:
BENCHMARK #B-270-R: SW 156TH STREET (APPROXIMATELY); US #1 - 20' WET OF C/L OF SOUTHBOUND LANE; C-100 CANAL (CUTLER DRAIN) - 40' NORTH OF C/L OF CANAL; SRD BRASS DISC IN CONCRETE SIDEWALK AR NW CORNER OF BRIDGE. (N:469,557.00, E:872,463.00) ELEVATION = 10.86 (NGVD).

PERMITTING AGENCIES	DATE SUBMITTED	EXPIRATION DATE	DATE APPROVED	PERMIT NUMBER
MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES - GENERAL PLAN REVIEW	05/15/2023	-	05/25/2023	2023-DTM-MISC-00031
VILLAGE OF PALMETTO BAY BUILDING DEPARTMENT - MOT PERMIT (BY CONTRACTOR)	-	-	-	-
VILLAGE OF PALMETTO BAY BUILDING DEPARTMENT - PUBLIC WORKS PERMIT (BY CONTRACTOR)	-	-	-	-
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY - CGP PERMIT (BY CONTRACTOR)	-	-	-	-
MIAMI DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES - DEWATERING (CLASS V) PERMIT (BY CONTRACTOR)	-	-	-	-
SOUTH FLORIDA WATER MANAGEMENT DISTRICT - DEWATERING (BY CONTRACTOR)	-	-	-	-

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY



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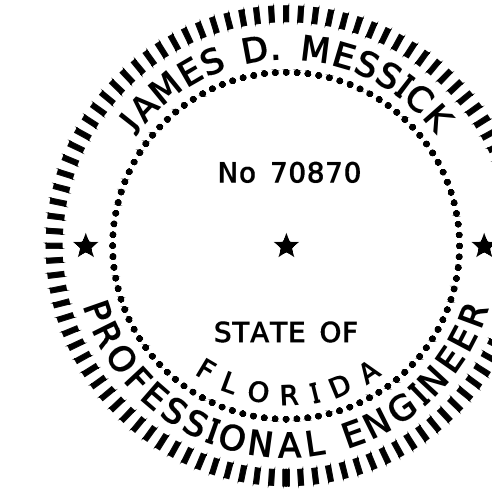
1800 Eller Drive, Suite 600, Fort Lauderdale, FL 33316
Phone: 954.921.7781 • Fax: 954.921.8807

FOR BIDDING PURPOSES ONLY
ELEVATIONS ARE IN NGVD 29



CURRENT REV No.: ---- - ----	JAMES D. MESSICK, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 70870. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JAMES D. MESSICK DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. DATE: 08-03-2023	SHEET: G0
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JAMES D. MESSICK, STATE OF FLORIDA,
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954-921-7781

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

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**PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS**
VILLAGE OF PALMETTO BAY

SIGNATURE SHEET

DATE: 08-03-2023

SCALE	SHEET
AS SHOWN	G1
PROJECT No	
21-4326.1	

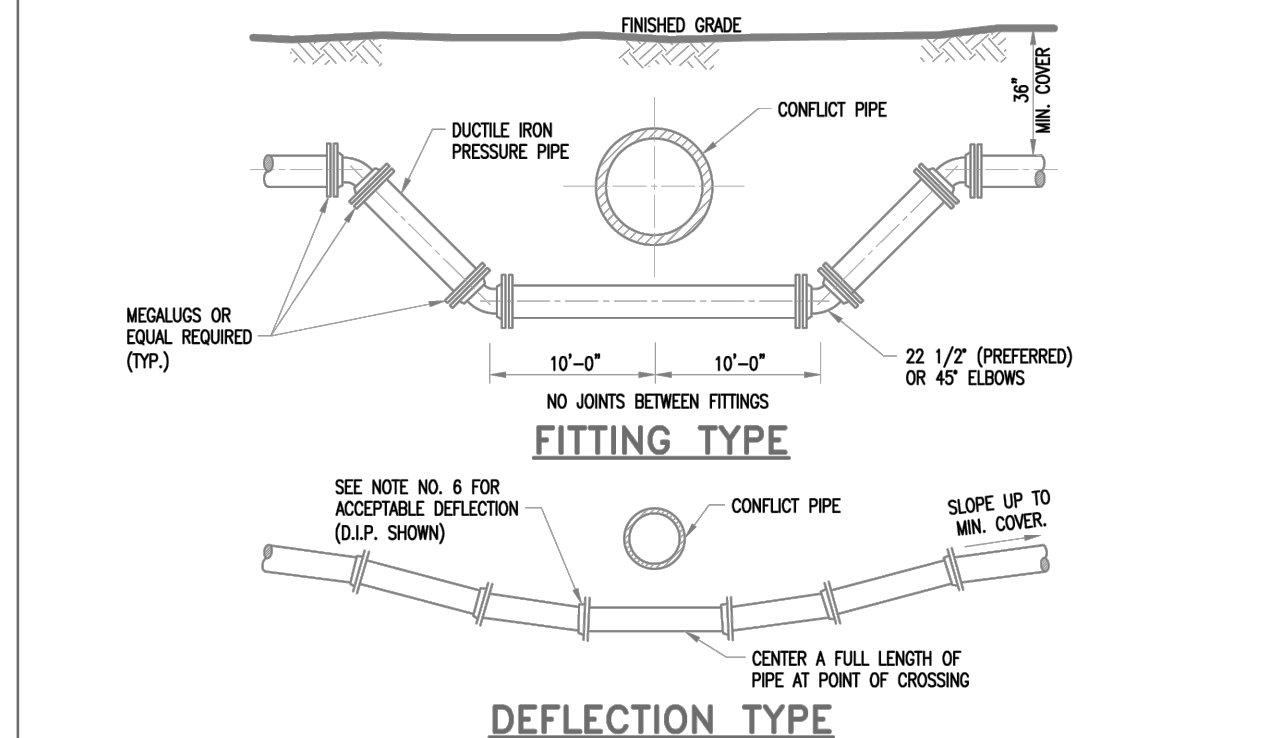
File Name: P:\Projects\2021\14326.1 Palmetto Bay Drainage Sub-Basins 5796 Improvements\CADD Files\Drawings\14326.1-C-DET.dwg - (Plotted by: Sebastian Sorio on Monday, August 7, 2023 1:18:03 PM)

1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS.
2. COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.
3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
4. ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND CHECK VALVE AT THE POINT OF ENTRY.
5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
7. FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
8. CONTRACTOR MUST CALL MIWASD INSTRUCTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
9. CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS.
10. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE DEPARTMENT:
 - a. EASEMENTS, IF REQUIRED
 - b. CONTRACTOR'S WAIVER AND RELEASE OF LIEN
 - c. ABSOLUTE BILL OF SALE
 - d. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT)
 - e. DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT)
 - f. "RECORD DRAWING" PRINTS (24" x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (NO. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submit of final CAD files required.
 - g. I.E.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS
 - h. BILL OF SALE SKETCH (8 1/2" x 11") FOR WATER AND SEWER, SEPARATELY
11. ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.
12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MIWASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SOFT RANGE SPECIFIED ABOVE. THE TAPPING SLEEVES AND TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
03/01/2010	V.F.C.	STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION	0.5
07/20/2016	D.V.		

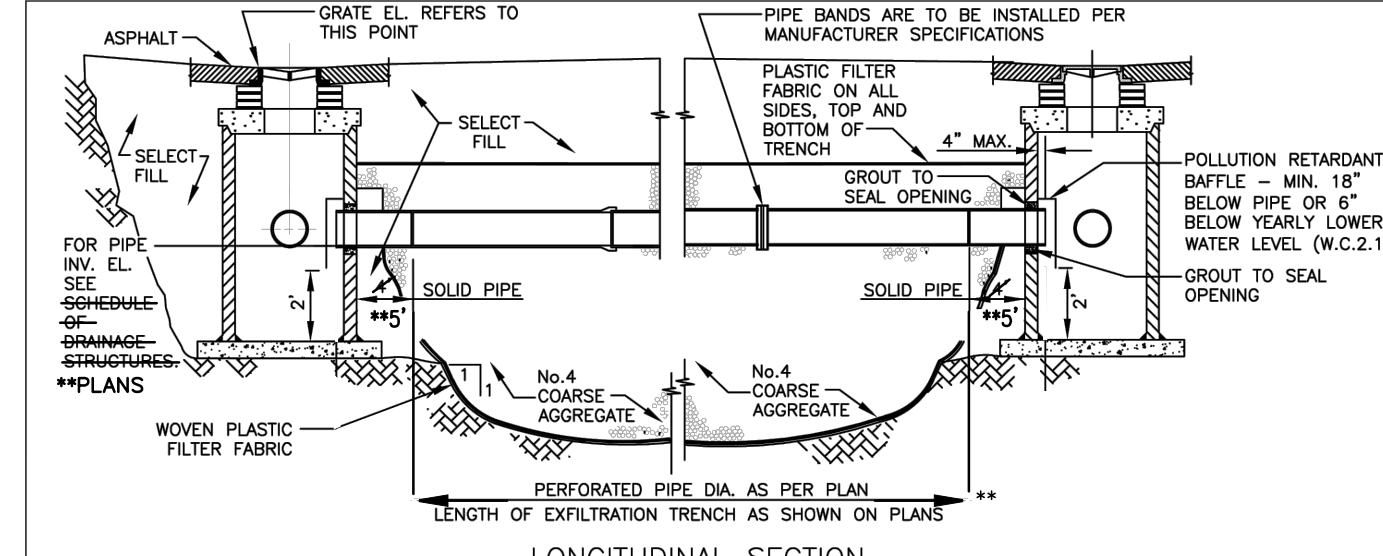
1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT, THE CONTRACTOR SHALL SUBMIT:
 - a. RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
 2. "RECORD DRAWING" FORMAT:
 - a. 24" x 36" PRINTS
 - b. PDF FILE
 - c. CAD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST ZONE
 - d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
 - e. TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION
 - f. PREFERRED SCALE TO BE 1" = 40' HORIZONTALLY AND 1" = 4' VERTICALLY*
 - g. STREET NOMENCLATURE
 - h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
 - i. SEPARATE WATER AND SEWER PROFILE
 - j. STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E. ξ , ζ , ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN
 - k. EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT
 - l. IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)
 - m. ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS
 3. WATER "RECORD DRAWINGS" MUST INCLUDE:
 - a. PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES, HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
 - b. PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLAN.
 4. SEWER "RECORD DRAWINGS" MUST INCLUDE:
 - a. PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS.
 - b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON ALL RECORD DRAWING SUBMITTALS
 - c. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE INVERT, LABEL NORTH, SOUTH, ETC.), AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE.
 5. FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.
 6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.
- * OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
03/11/2009	V.F.C.	"RECORD DRAWING" REQUIREMENTS	0.5
07/20/2016	D.V.		



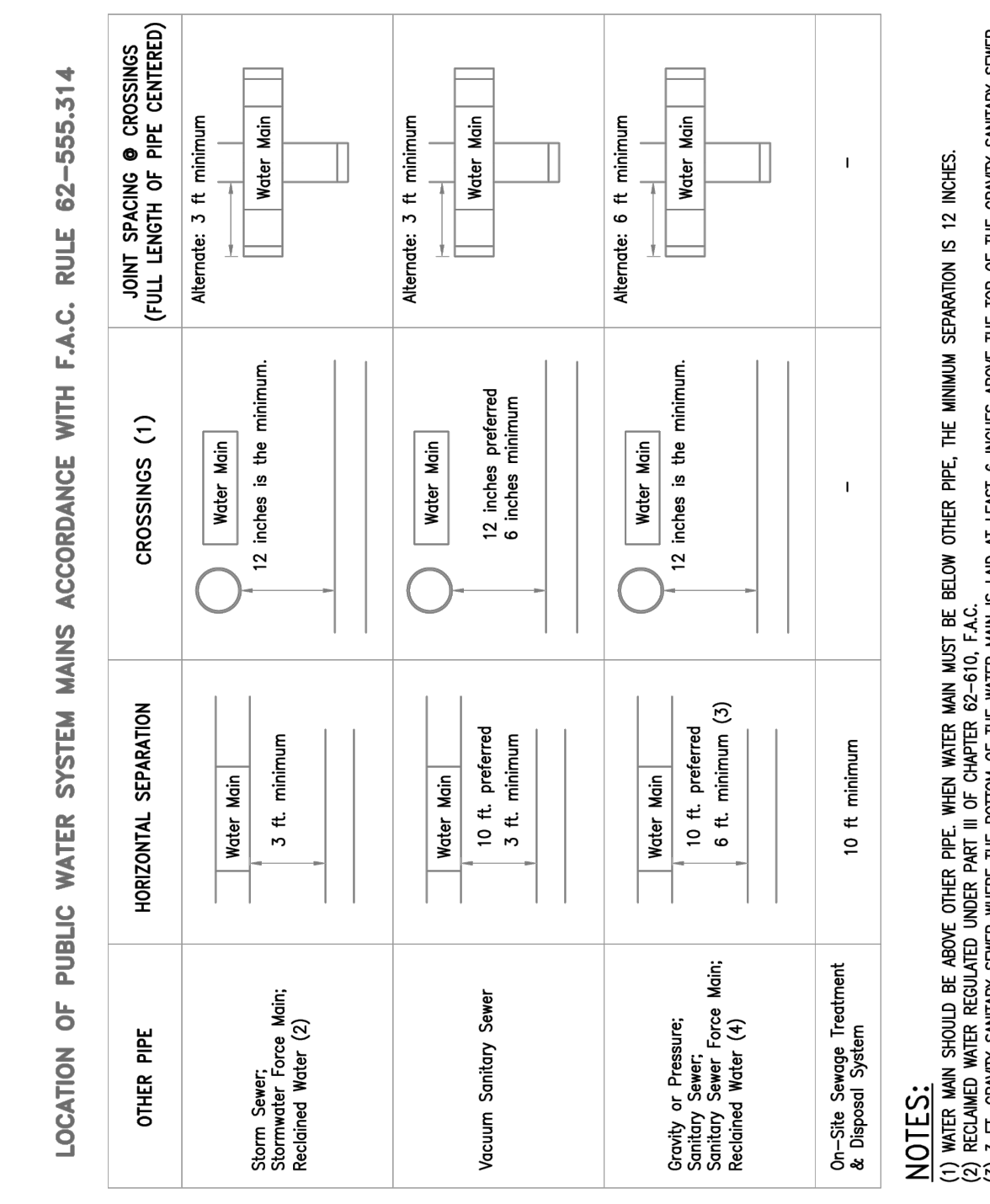
- NOTES:**
1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 12" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. RESPECTIVE OF SEPARATION. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
 2. WHENEVER POSSIBLE MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN (A MIN. 6" SEPARATION MAY BE APPROVED ON A CASE BY CASE BASIS). MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
 3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN.
 4. FITTINGS SHALL BE RESTRAINED.
 5. THE DEFLECTION TYPE CROSSING IS PREFERRED.
 6. DO NOT EXCEED 50% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION FOR DUCTILE IRON PIPE. PVC PIPE CURVATURE MAY NOT BE ACCOMPLISHED BY INSTALLING APPROPRIATE BENDS.
 7. POTABLE WATER SERVICE LINES SHALL CROSS OVER WASTEWATER MAINS WITH MIN. 12" VERTICAL SEPARATION. WHERE THIS MIN. SEPARATION CANNOT BE MAINTAINED, THE WATER SERVICE SHALL BE ENCASED IN A MIN. 10" LONG CASING CENTERED OVER THE CROSSING WITH MIN. 6" VERTICAL SEPARATION.
 8. WASTEWATER MAINS, WATER MAINS, STORM PIPES AND OTHER UTILITY PIPES SHALL CROSS PERPENDICULAR WHENEVER POSSIBLE.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
07/20/2016	D.V.	POTABLE WATER MAIN/FORCE MAIN PRESSURE PIPE CONFLICT DETAIL	1.1

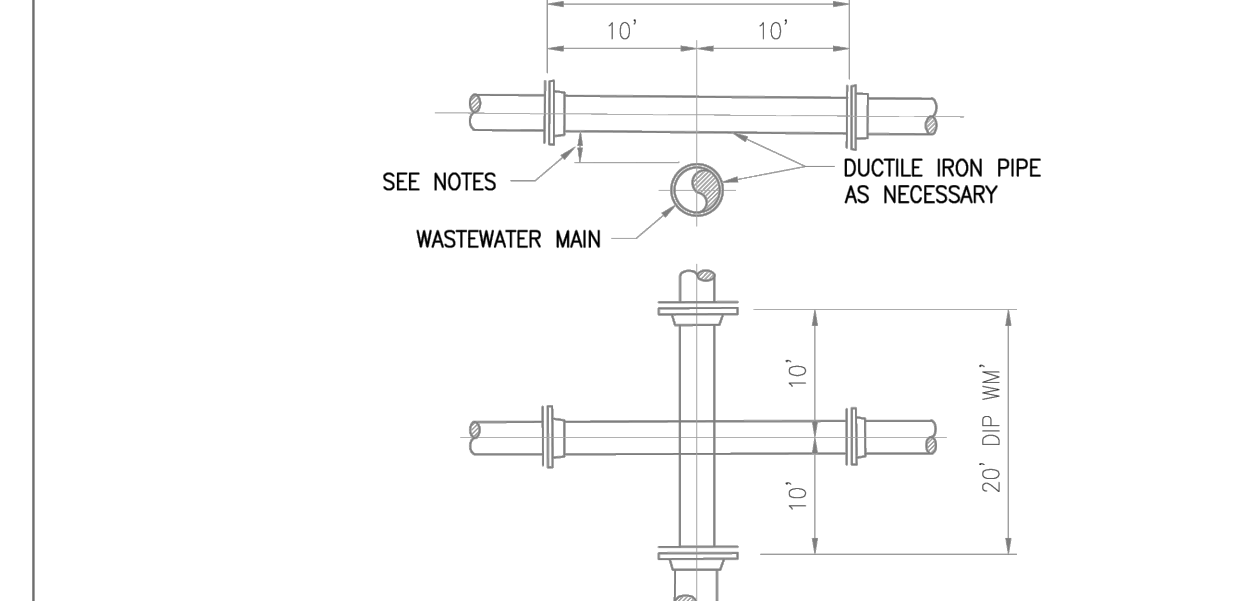


- NOTE:**
1-AFTER THE COARSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER, OR TAMPERED, TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No. 4 COARSE AGGREGATE SHALL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.
- * MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.
- NOTES (CONTINUED ON NEXT PAGE)**
1. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOLAMINATE POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.
2. MAXIMUM EXFILTRATION RATE WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfm/ft.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
04/16/2010	D.V.	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN)	1.1
09/26/2012			
10/19/2012			



ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
10/1/2017	D.V.	POTABLE WATER MAIN, WASTEWATER & STORM SEWER CONFLICT	1.5



- NOTES:**
1. STORM SEWER, GRAVITY WASTEWATER AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE STORM/WASTEWATER/RECLAIMED WATER PIPE JOINTS AND POTABLE WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN TEN (10) FEET BETWEEN ANY TWO JOINTS, BOTH PIPES SHALL BE D.I.P., AND THE MINIMUM VERTICAL SEPARATION SHALL BE 6 INCHES. WHERE THERE IS NO ALTERNATIVE TO STORM/WASTEWATER/RECLAIMED WATER PIPES CROSSING OVER A POTABLE WATER MAIN, THE CRITERIA FOR MINIMUM 12" VERTICAL SEPARATION BETWEEN LINES AND JOINT ARRANGEMENT, AS STATED ABOVE, SHALL BE REQUIRED, AND BOTH PIPES SHALL BE D.I.P. D.I.P. IS NOT REQUIRED FOR STORM SEWERS.
 2. WHENEVER POSSIBLE MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN (A MIN. 6" SEPARATION MAY BE APPROVED ON A CASE BY CASE BASIS). MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
 3. FORCE MAIN CROSSING POTABLE WATER MAIN OR RECLAIMED WATER MAIN SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF TWELVE (12) INCHES BETWEEN THE OUTSIDE OF THE FORCE MAIN AND OUTSIDE OF THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN WITH THE POTABLE WATER MAIN OR RECLAIMED WATER MAIN CROSSING OVER THE FORCE MAIN.
 4. WASTEWATER LATERALS SHALL CROSS UNDER POTABLE WATER MAINS WITH A MIN. 12" VERTICAL SEPARATION. WHENEVER POSSIBLE, MAINTAIN MIN. TEN (10) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN POTABLE WATER MAIN AND STORM SEWER, WASTEWATER MAIN, OR FORCE MAIN (A MIN. 6" SEPARATION MAY BE APPROVED ON A CASE BY CASE BASIS). MAINTAIN MIN. THREE (3) FEET HORIZONTAL DISTANCE (WALL TO WALL) BETWEEN RECLAIMED WATER MAIN AND POTABLE WATER MAIN, STORM SEWER, WASTEWATER GRAVITY MAIN OR FORCE MAIN.
 5. POTABLE WATER SERVICE LINES SHALL CROSS OVER WASTEWATER MAINS WITH A MIN. 12" VERTICAL SEPARATION. WHERE THIS MIN. SEPARATION CANNOT BE MAINTAINED, THE WATER SERVICE SHALL BE ENCASED IN A MIN. 10" LONG PVC CASING CENTERED OVER THE CROSSING WITH MIN. 6" VERTICAL SEPARATION.
 6. WASTEWATER MAINS, WATER MAINS, STORM PIPES AND OTHER UTILITY PIPES SHALL CROSS PERPENDICULAR WHENEVER POSSIBLE.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
10/1/2017	D.V.	WATER AND SEWER MAINS CROSSING	1.5

- NOTES (CONTINUED)**
3. THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
 4. NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
 5. TYPE "B" S.D. 2.8 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
 6. TYPE "A" S.D. 2.8 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE.
 7. ALL INVERTS OF PERFORATED PIPES TO BE MEAN HIGH OCTOBER WATER TABLE W.L. 2.2.
 8. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED COVER.
 9. NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
 10. OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES. IN PROJECTS LOCATED IN WELFLELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
 11. OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

- GENERAL NOTES FOR PIPE CULVERTS**
- 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.

PIPE DIAMETER (Inches)	MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS	
	OUTER SHELL	LINER
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.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	SD
04/16/2010	D.V.	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	1.1

**DENOTES CHANGES BY THE EOR TO COUNTY DETAIL

FOR BIDDING PURPOSES ONLY ELEVATIONS ARE IN NGVD 29

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

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A SAFEBUILD COMPANY
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PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

DETAILS

JAMES D. MESSICK, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 70870.
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DATE: 08-03-2023

SCALE: AS SHOWN
PROJECT No: 21-4326.1
SHEET: G3

File Name: P:\Projects\2021\214326 Palmetto Bay - Professional Consulting Services\214326.1 Palmetto Bay Drainage Sub-Basins 5796 Improvements\CADD Files\Drawings\214326.1-C-DETL.dwg - (Plotted by: Sebastian Soris on Monday, August 7, 2023 1:18:30 PM)

J-7T

SQUARE TOP **ROUND TOP**

SECTION

NOTES:

- 1.-CAST TOP SLAB TO FIT WALL USED.
- 2.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
- 3.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
- 4.-APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
- 5.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018 5/7/2013 3/26/2012 5/3/2011	MANHOLE AND INLET (TYPE J)	2.6
				SHEET 1 OF 4

SQUARE STRUCTURE

Standard Detail	Width (ft) Min.	Length (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	8	8	0.0 - 5.0	8	#4@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	5.1 - 10.0	8	#6@7.5"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	10.1 - 15.0	8	#7@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.

ROUND STRUCTURE

Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	5	7	0.0 - 5.0	8	8 x 8 W20 or #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	5.1 - 10.0	8	8 x 8 W20 or #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	10.1 - 15.0	8	8 x 8 W20 or #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018 11/26/2012 8/3/2011	MANHOLE AND INLET (TYPE J)	2.6
				SHEET 2 OF 4

P-7T

ROUND TOP **SQUARE TOP**

SECTION

NOTES:

- 1.-CAST TOP SLAB TO FIT WALL USED.
- 2.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
- 3.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
- 4.-A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
- 5.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 1 OF 4

SQUARE STRUCTURE

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	3.5	0.0 - 5.0	6.0	#4@10"H #4@10"V	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	5.1 - 10.0	6.0	#4@9"H #4@10"V	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	10.1 - 15.0	6.0	#5@6"H #4@10"V	8.0	#4@5.5" E.W.	8.0	#4@10" E.W.

ROUND STRUCTURE

Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	4.0	0.0 - 5.0	6.0	8 x 8 W20 or #4@10"E.W.	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	5.1 - 10.0	6.0	8 x 8 W20 or #4@10"E.W.	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	10.1 - 15.0	6.0	8 x 8 W20 or #4@10"E.W.	8.0	#4@5.5" E.W.	8.0	#4@10" E.W.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 2 OF 4

PLAN

SECTION A-A

NOTES:

- 1.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
- 2.-USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
- 3.-A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
- 4.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.
- 5.-THIS STRUCTURE IS ONLY TO BE USED WHERE UTILITY CONFLICTS DO NOT ALLOW FOR INSTALLATION OF STANDARD STRUCTURES. THE INSTALLATION OF THIS STRUCTURE MUST BE APPROVED BY THE DEPARTMENT.

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 1 OF 2

RECTANGULAR BOX

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang
3.1	1.42	2.25	0 - 5.0	6"	#4@10"H #4@10"V	N/A	N/A	6"	#4@12" E.W.	6"
3.1	1.42	2.25	5.1 - 10.0	6"	#4@10"H #4@10"V	N/A	N/A	6"	#4@12" E.W.	N/A
3.1	1.42	2.25	10.1 - 15.0	6"	#4@9"H #4@10"V	N/A	N/A	8"	#4@12" E.W.	N/A

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	5/8/2018	5/9/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 2 OF 2

TYPICAL SECTION

METROPOLITAN DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF PUBLIC WORKS	6/1/82		LEVELING COURSE	4.5
				SHEET 1 OF 1

*DENOTES CHANGES BY THE EOR TO COUNTY DETAIL

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PLAN
CONCRETE BOX & LID TO BE INSTALLED IN ISOLATED CONCRETE SIDEWALK FLAGS WITH EXPANSION JOINTS TO ADJACENT FLAGS. FOR BOX LOCATED IN GRASS AREAS, SEE STD. DETAIL SS 21.0 FOR REFERENCE.

SECTION A
N.T.S.

ITEM	CROSS REF.	SPEC. REF.
CONCRETE SIDEWALK CLEAN-OUT GRAVITY SEWER SERVICE LATERALS	SS 22.0	UC-310

ISSUE DATE	APPROVED BY	STANDARD DETAIL	SS
08/26/2010	V.F.C.	GRAVITY SEWER SERVICE LATERAL FOR "SHALLOW" SEWERS	1.0

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

SECTION A
N.T.S.

ITEM	CROSS REF.	SPEC. REF.
CONCRETE SIDEWALK CLEAN-OUT GRAVITY SEWER SERVICE LATERALS	SS 22.0	UC-310

ISSUE DATE	APPROVED BY	STANDARD DETAIL	SS
08/26/2010	V.F.C.	GRAVITY SEWER SERVICE LATERAL FOR "DEEP" SEWERS	1.0

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

DETAIL FOR CLAY AND P.V.C. PIPE ONLY

STEP-1
CUT AND REMOVE NECESSARY LENGTH OF EXISTING PIPE FROM SPIGOT END

STEP-2
INSERT SPIGOT END OF EXISTING MAIN INTO BELL OF NEW "Y" SECTION

NOTES:

- LENGTH OF THE REPAIR COUPLING TO BE AT LEAST THE SAME SIZE AS THE DIAMETER OF THE PIPE BEING REPAIRED.
- NEW LATERALS FOR EXISTING DEEP SEWER MAINS WILL ONLY BE ALLOWED FROM MANHOLES OR AS APPROVED BY THE DEPARTMENT.
- FOR D.I.P. MAIN CUT IN NEW D.I. TEE OR WYE.
- WHEN INSTALLING A NEW "Y" ASSEMBLY TO AN EXISTING CLAY SEWER MAIN, THE MAIN MUST BE TV'D BEFORE AND AFTER INSTALLATION.

ITEM	CROSS REF.	SPEC. REF.
WYE BRANCH AND LATERAL	SS 1.0	

ISSUE DATE	APPROVED BY	STANDARD DETAIL	SS
11/17/2009	V.F.C.	WYE BRANCH CONNECTION FOR EXISTING SHALLOW MAIN	3.1

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

BOX PLAN
LID SECTION
LID PLAN
BOX SECTION
LID TOP PATTERN

NOTES:

- MACHINE FINISH BOTTOM OF COVER AND SEAT OF FRAME.
- ALL DIMENSIONS ARE NET CASTING, NOT PATTERN.
- FOUNDRY AND LOCATION SHALL BE CAST ON BOTTOM OF THE LID. (SEE WS 2.05)
- MINIMUM WEIGHTS: RING: 134LBS
COVER: 44LBS

ITEM	CROSS REF.	SPEC. REF.
XXXXX		

ISSUE DATE	APPROVED BY	STANDARD DETAIL	SS
06/25/2015	J.B.F.	No. 53 C.I. VALVE BOX AND LID	13.0

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

PLAN VIEW
N.T.S.

LID DETAIL
N.T.S.

SECTION A
N.T.S.

ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
6/1/2015	J.F.	No. 3 C.I. VALVE BOX	3.11

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

SECTION VIEW
N.T.S.

PLAN VIEW
N.T.S.

DETAIL OF LID TOP
N.T.S.

NOTES:

- MACHINE FINISH BOTTOM OF COVER AND SEAT OF FRAME.
- ALL DIMENSIONS ARE NET CASTING, NOT PATTERN.
- FOUNDRY AND LOCATION SHALL BE CAST ON BOTTOM OF THE LID. (SEE WS 2.05)
- IF USED FOR RECLAIMED WATER, THE CAST IRON LID IS TO BE COLORED PURPLE PANTONE 522C, AND THE LETTER "W" REPLACED WITH "R".

ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
06/01/2008	V.F.C.	No. 3 C.I. LID	3.11

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

TYPICAL SERVICE PLAN
N.T.S.

NOTES:

- CONTRACTOR HAS THE OPTION OF TAPPING AT 45°.
- METERS WILL NOT BE INSTALLED IF THE METER BOX IS LOCATED ON A DRIVING SURFACE.
- PROVIDE 36" MIN. COVER FOR SERVICES INSTALLED WITHIN ARTERIAL ROADS (INCLUDING ALL SECTION LINE AND HALF-SECTION LINE ROADS).
- INSTALL TAPPING SADDLE FOR THICKNESS CLASS D.I. MAINS 4" & SMALLER, PRESSURE CLASS D.I. WATER MAINS 6" & SMALLER, OR WHEN MAIN IS PVC, HDPE OR AC PIPE.
- WHEN MAIN IS SHALLOWER THAN 48", A 3/4" OR 1/2" BEND MUST BE USED.
- WHEN USING HDPE SERVICE PIPE, A TEN GAUGE BLUE TRACER WIRE TO BE TAPPED TO THE PIPE EVERY 2 FT. WITH POLY OR DUOT TAPE. TRACER WIRE TO BE MECHANICALLY FASTENED TO THE MAIN WHEN A METAL WATER MAIN IS USED.
- USE SERVICE SADDLE AND TAPPING SLEEVE FOR PVC RECLAIMED WATER MAIN.

ITEM	CROSS REF.	SPEC. REF.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	WS
1/3/2011	V.F.C.	TYPICAL 1" SERVICE CONNECTION (COPPER OR HDPE)	2.16

MIAMI-DADE COUNTY
WATER & SEWER DEPARTMENT

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PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
VILLAGE OF PALMETTO BAY

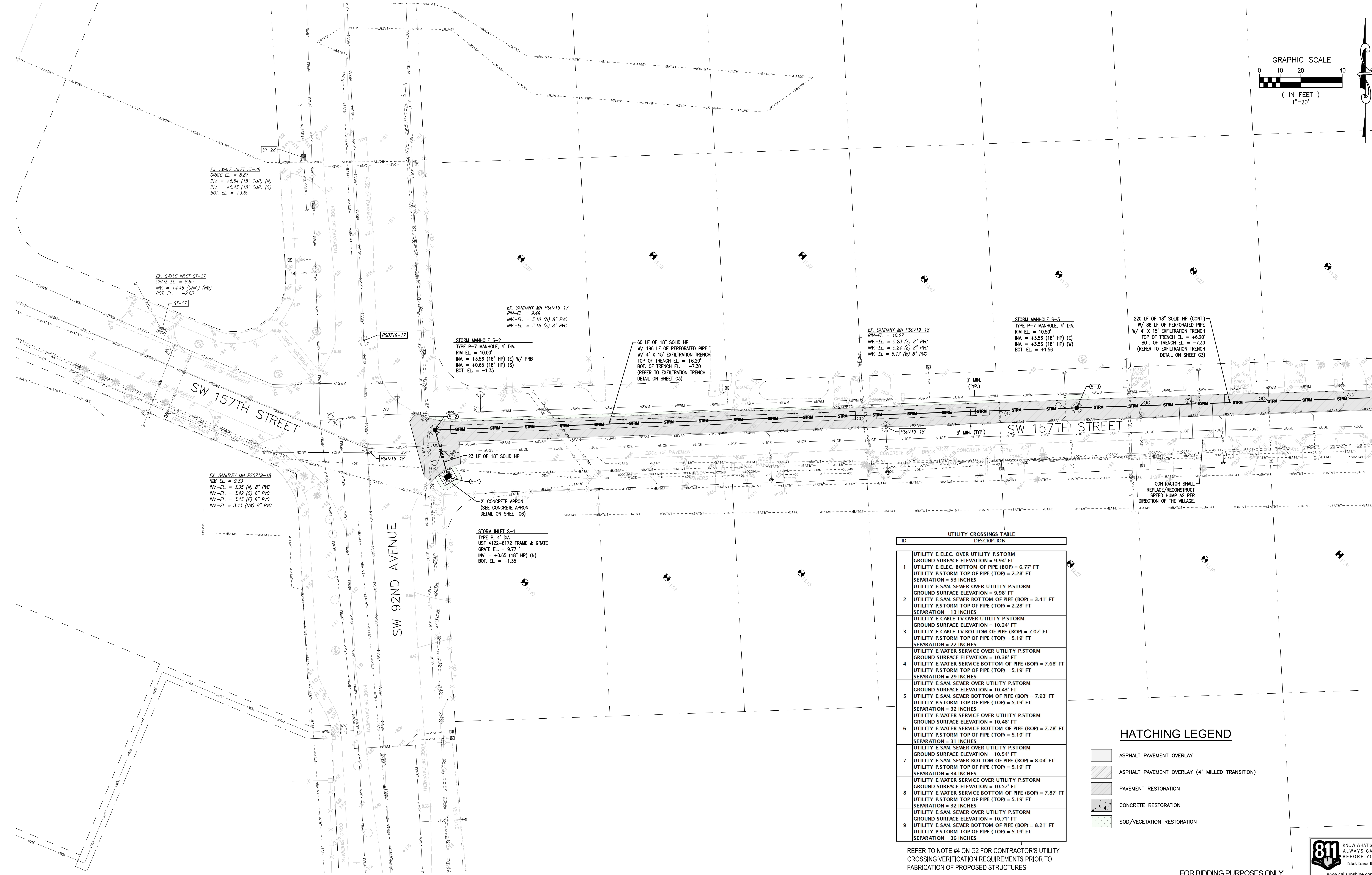
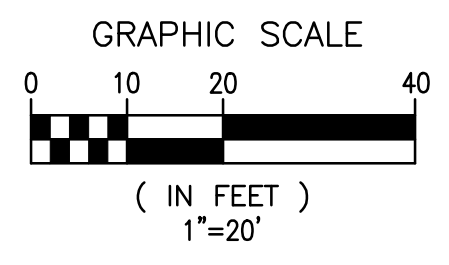
DETAILS

JAMES D. MESSICK, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 70870.
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PROJECT No: 21-4326.1

G5

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ID.	DESCRIPTION
1	UTILITY E.ELEC. OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 9.94' FT UTILITY E.ELEC. BOTTOM OF PIPE (BOP) = 6.77' FT UTILITY P.STORM TOP OF PIPE (TOP) = 2.28' FT SEPARATION = 53 INCHES
2	UTILITY E.SAN. SEWER OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 9.98' FT UTILITY E.SAN. SEWER BOTTOM OF PIPE (BOP) = 3.41' FT UTILITY P.STORM TOP OF PIPE (TOP) = 2.28' FT SEPARATION = 13 INCHES
3	UTILITY E.CABLE TV OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.24' FT UTILITY E.CABLE TV BOTTOM OF PIPE (BOP) = 7.07' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 22 INCHES
4	UTILITY E.WATER SERVICE OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.38' FT UTILITY E.WATER SERVICE BOTTOM OF PIPE (BOP) = 7.68' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 29 INCHES
5	UTILITY E.SAN. SEWER OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.43' FT UTILITY E.SAN. SEWER BOTTOM OF PIPE (BOP) = 7.93' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 32 INCHES
6	UTILITY E.WATER SERVICE OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.48' FT UTILITY E.WATER SERVICE BOTTOM OF PIPE (BOP) = 7.78' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 31 INCHES
7	UTILITY E.SAN. SEWER OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.54' FT UTILITY E.SAN. SEWER BOTTOM OF PIPE (BOP) = 8.04' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 34 INCHES
8	UTILITY E.WATER SERVICE OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.57' FT UTILITY E.WATER SERVICE BOTTOM OF PIPE (BOP) = 7.87' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 32 INCHES
9	UTILITY E.SAN. SEWER OVER UTILITY P.STORM GROUND SURFACE ELEVATION = 10.71' FT UTILITY E.SAN. SEWER BOTTOM OF PIPE (BOP) = 8.21' FT UTILITY P.STORM TOP OF PIPE (TOP) = 5.19' FT SEPARATION = 36 INCHES

HATCHING LEGEND

	ASPHALT PAVEMENT OVERLAY
	ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
	PAVEMENT RESTORATION
	CONCRETE RESTORATION
	SOD/VEGETATION RESTORATION

REFER TO NOTE #4 ON G2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

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PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

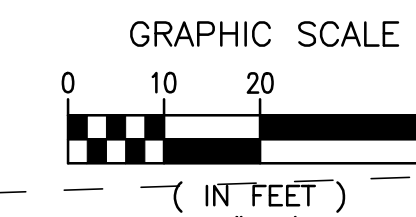
DRAINAGE PLAN

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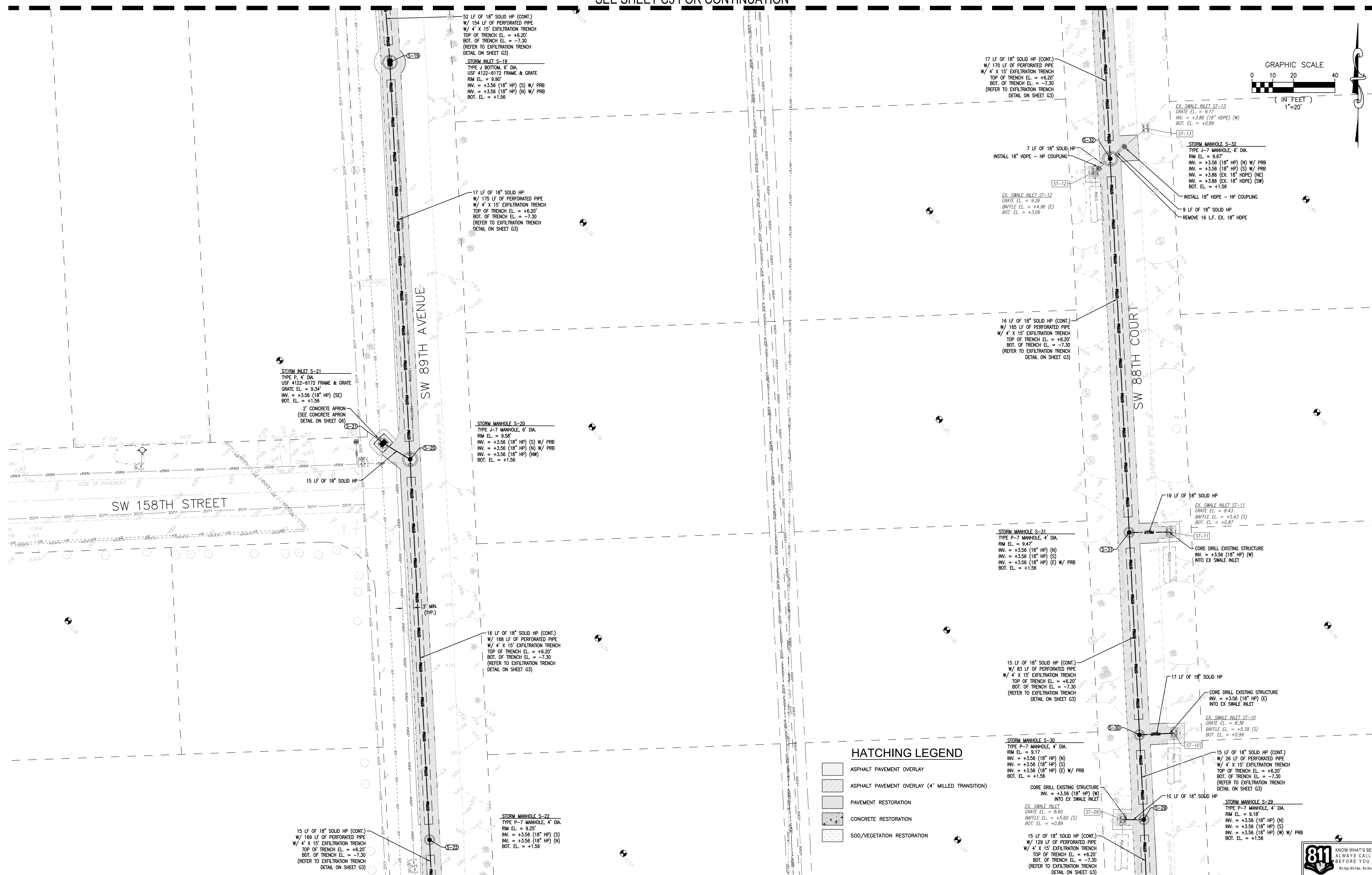
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SHEET: C1

SEE SHEET C2 FOR CONTINUATION

SEE SHEET C3 FOR CONTINUATION



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HATCHING LEGEND

- ASPHALT PAVEMENT OVERLAY
- ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
- PAVEMENT RESTORATION
- CONCRETE RESTORATION
- SOD/VEGETATION RESTORATION

SEE SHEET C5 FOR CONTINUATION

SEE SHEET C8 FOR CONTINUATION

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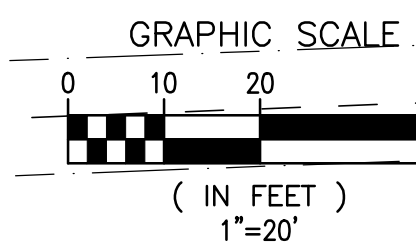
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VILLAGE OF PALMETTO BAY

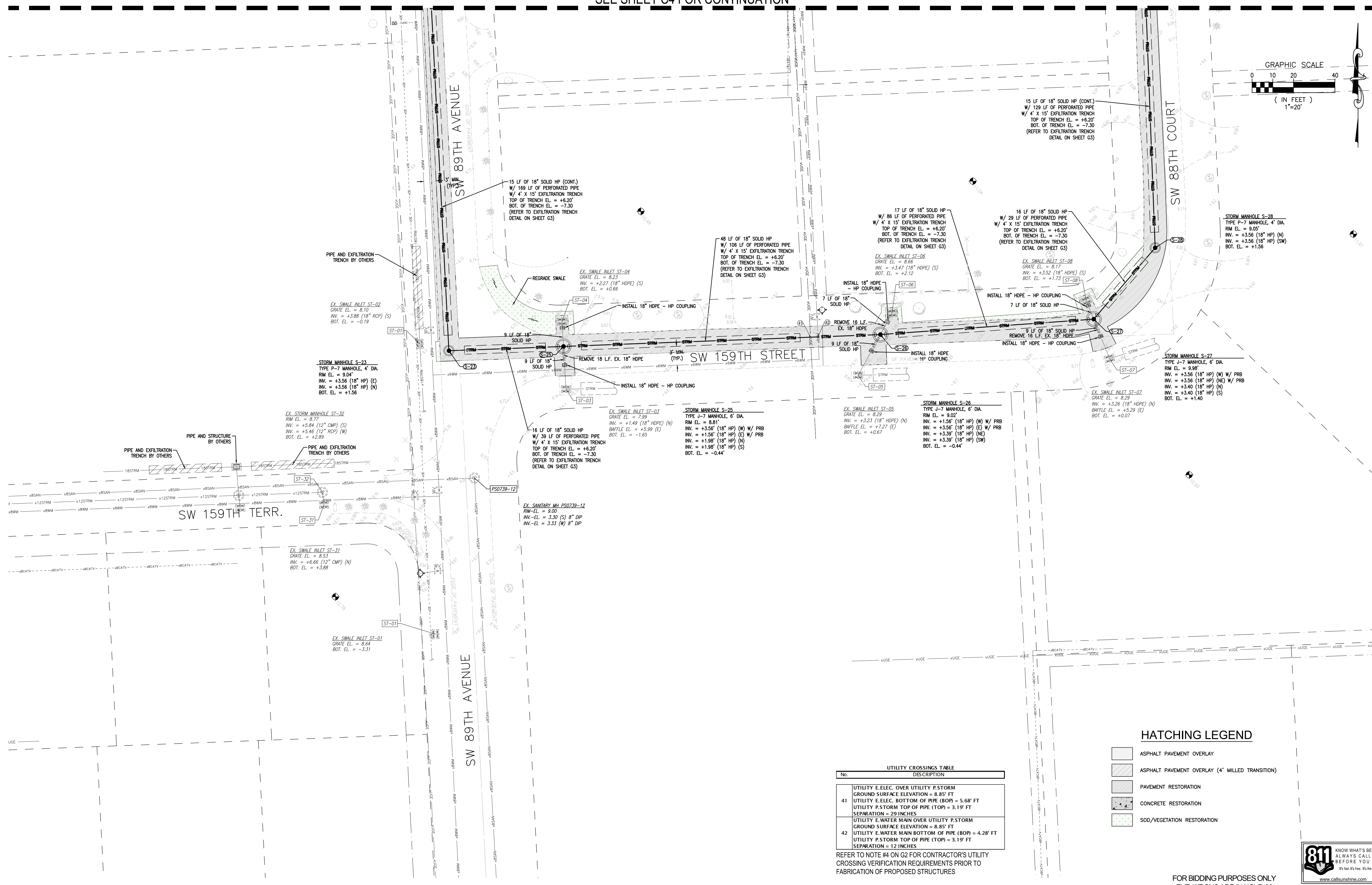
DRAINAGE PLAN

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PROJECT NO: 21-4326.1
SHEET: C4



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SEE SHEET C9 FOR CONTINUATION

HATCHING LEGEND

- ASPHALT PAVEMENT OVERLAY
ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
PAVEMENT RESTORATION
CONCRETE RESTORATION
SOD/VEGETATION RESTORATION

UTILITY CROSSINGS TABLE with columns No. and DESCRIPTION. Includes entries for utility crossings over utility p.storm and utility e.water main.

REFER TO NOTE #4 ON G2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

FOR BIDDING PURPOSES ONLY ELEVATIONS ARE IN NGVD 29



Revision table with columns NO, DATE, REVISION, BY, NO, DATE, REVISION, BY

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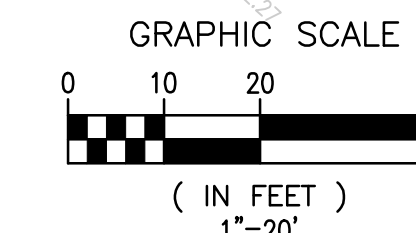
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DRAINAGE PLAN

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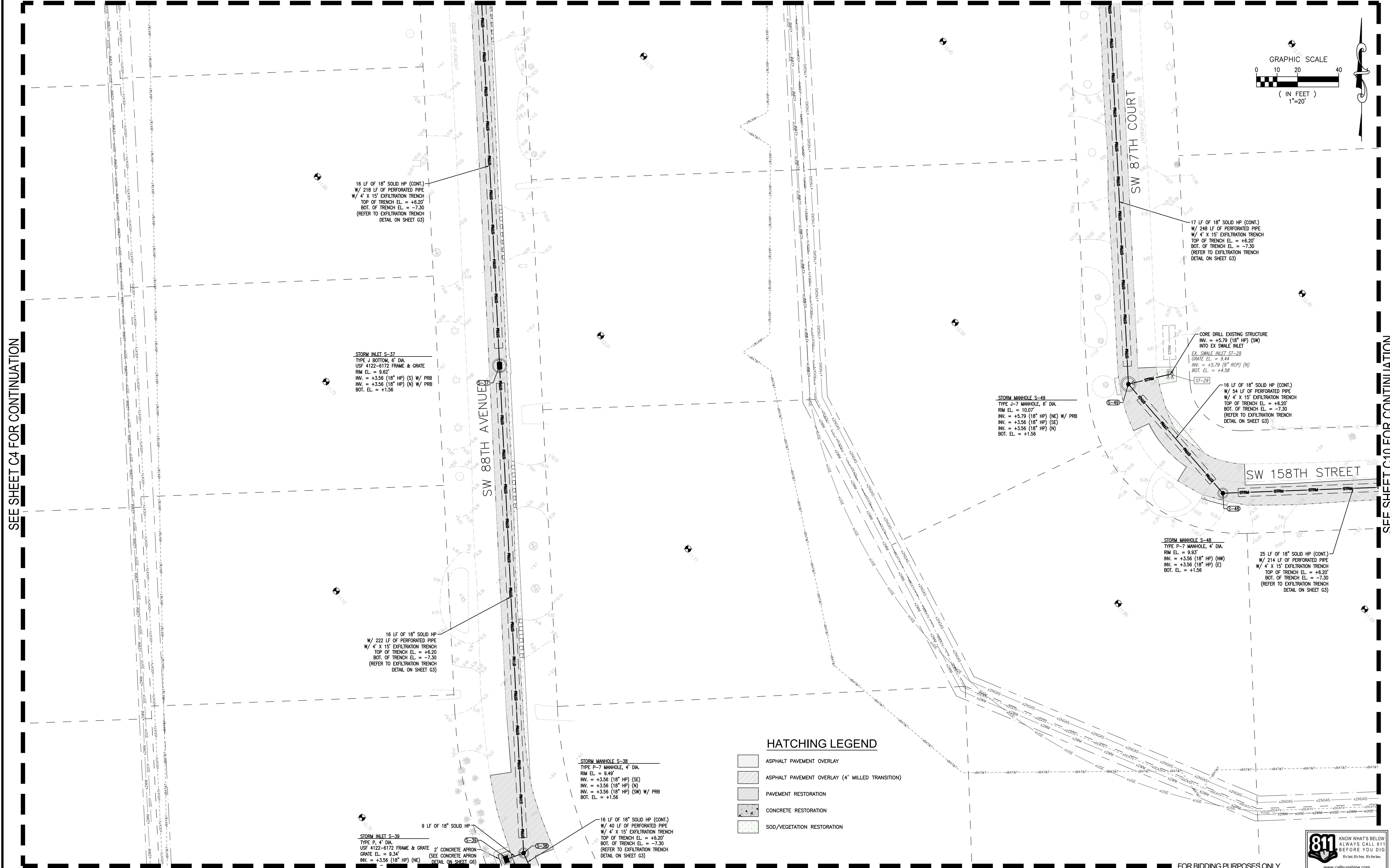
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SEE SHEET C4 FOR CONTINUATION

SEE SHEET C10 FOR CONTINUATION



16 LF OF 18" SOLID HP (CONT.)
W/ 216 LF OF PERFORATED PIPE
W/ 4' X 15' EXFILTRATION TRENCH
TOP OF TRENCH EL. = +6.20'
BOT. OF TRENCH EL. = -7.30'
(REFER TO EXFILTRATION TRENCH
DETAIL ON SHEET G3)

STORM INLET S-37
TYPE J BOTTOM, 6" DIA.
USF 4122-6172 FRAME & GRATE
RIM EL. = 9.62'
INV. = +3.56 (18" HP) (S) W/ PRB
INV. = +3.56 (18" HP) (N) W/ PRB
BOT. EL. = +1.56

16 LF OF 18" SOLID HP
W/ 222 LF OF PERFORATED PIPE
W/ 4' X 15' EXFILTRATION TRENCH
TOP OF TRENCH EL. = +6.20'
BOT. OF TRENCH EL. = -7.30'
(REFER TO EXFILTRATION TRENCH
DETAIL ON SHEET G3)

STORM MANHOLE S-38
TYPE P-7 MANHOLE, 4' DIA.
RIM EL. = 9.49'
INV. = +3.56 (18" HP) (SE)
INV. = +3.56 (18" HP) (N)
INV. = +3.56 (18" HP) (SW) W/ PRB
BOT. EL. = +1.56

STORM INLET S-39
TYPE P, 4" DIA.
USF 4122-6172 FRAME & GRATE
GRATE EL. = 9.34'
INV. = +3.56 (18" HP) (NE)
2' CONCRETE APRON
(SEE CONCRETE APRON
DETAIL ON SHEET G6)

16 LF OF 18" SOLID HP (CONT.)
W/ 40 LF OF PERFORATED PIPE
W/ 4' X 15' EXFILTRATION TRENCH
TOP OF TRENCH EL. = +6.20'
BOT. OF TRENCH EL. = -7.30'
(REFER TO EXFILTRATION TRENCH
DETAIL ON SHEET G3)

STORM MANHOLE S-49
TYPE J-7 MANHOLE, 6" DIA.
RIM EL. = 10.07'
INV. = +5.79 (18" HP) (NE) W/ PRB
INV. = +3.56 (18" HP) (SE)
INV. = +3.56 (18" HP) (N)
BOT. EL. = +1.56

CORE DRILL EXISTING STRUCTURE
INTO EX SWALE INLET
EX SWALE INLET ST-29
GRATE EL. = 9.44
INV. = +5.79 (8" RCP) (N)
BOT. EL. = +4.58

16 LF OF 18" SOLID HP (CONT.)
W/ 54 LF OF PERFORATED PIPE
W/ 4' X 15' EXFILTRATION TRENCH
TOP OF TRENCH EL. = +6.20'
BOT. OF TRENCH EL. = -7.30'
(REFER TO EXFILTRATION TRENCH
DETAIL ON SHEET G3)

STORM MANHOLE S-48
TYPE P-7 MANHOLE, 4' DIA.
RIM EL. = 9.93'
INV. = +3.56 (18" HP) (NW)
INV. = +3.56 (18" HP) (E)
BOT. EL. = +1.56

25 LF OF 18" SOLID HP (CONT.)
W/ 214 LF OF PERFORATED PIPE
W/ 4' X 15' EXFILTRATION TRENCH
TOP OF TRENCH EL. = +6.20'
BOT. OF TRENCH EL. = -7.30'
(REFER TO EXFILTRATION TRENCH
DETAIL ON SHEET G3)

HATCHING LEGEND

- ASPHALT PAVEMENT OVERLAY
ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
PAVEMENT RESTORATION
CONCRETE RESTORATION
SOD/VEGETATION RESTORATION

SEE SHEET C9 FOR CONTINUATION

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Table with columns: NO, DATE, REVISION, BY, NO, DATE, REVISION, BY

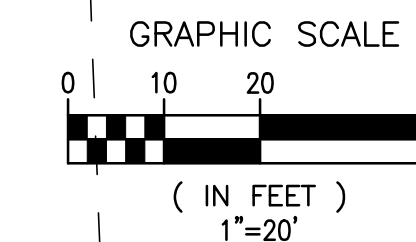
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PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

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SCALE AS SHOWN PROJECT NO. 21-4326.1 SHEET C8

SEE SHEET C8 FOR CONTINUATION



STORM MANHOLE S-40
 TYPE P-7 MANHOLE, 4' DIA.
 RIM EL. = 9.47'
 INV. = +3.56 (18" HP) (SE)
 INV. = +3.56 (18" HP) (NW)
 BOT. EL. = +1.56

STORM MANHOLE S-41
 TYPE P-7 MANHOLE, 4' DIA.
 RIM EL. = 9.46'
 INV. = +3.56 (18" HP) (NW)
 INV. = +3.56 (18" HP) (SE)
 BOT. EL. = +1.56

STORM INLET S-42
 TYPE J BOTTOM, 6" DIA.
 USF 4122-6172 FRAME & GRATE
 GRATE EL. = 9.10'
 INV. = +3.56 (18" HP) (NW) W/ PRB
 INV. = +3.56 (18" HP) (E) W/ PRB
 BOT. EL. = +1.56

16 LF OF 18" SOLID HP (CONT.)
 W/ 40 LF OF PERFORATED PIPE
 W/ 4' X 15' EXFILTRATION TRENCH
 TOP OF TRENCH EL. = +6.20'
 BOT. OF TRENCH EL. = -7.30'
 (REFER TO EXFILTRATION TRENCH
 DETAIL ON SHEET G3)

15 LF OF 18" SOLID HP
 W/ 80 LF OF PERFORATED PIPE
 W/ 4' X 15' EXFILTRATION TRENCH
 TOP OF TRENCH EL. = +6.20'
 BOT. OF TRENCH EL. = -7.30'
 (REFER TO EXFILTRATION TRENCH
 DETAIL ON SHEET G3)

16 LF OF 18" SOLID HP
 W/ 77 LF OF PERFORATED PIPE
 W/ 4' X 15' EXFILTRATION TRENCH
 TOP OF TRENCH EL. = +6.20'
 BOT. OF TRENCH EL. = -7.30'
 (REFER TO EXFILTRATION TRENCH
 DETAIL ON SHEET G3)

16 LF OF 18" SOLID HP (CONT.)
 W/ 270 LF OF PERFORATED PIPE
 W/ 4' X 15' EXFILTRATION TRENCH
 TOP OF TRENCH EL. = +6.20'
 BOT. OF TRENCH EL. = -7.30'
 (REFER TO EXFILTRATION TRENCH
 DETAIL ON SHEET G3)

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SEE SHEET C5 FOR CONTINUATION

SEE SHEET C11 FOR CONTINUATION

HATCHING LEGEND

- ASPHALT PAVEMENT OVERLAY
- ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
- PAVEMENT RESTORATION
- CONCRETE RESTORATION
- SOD/VEGETATION RESTORATION

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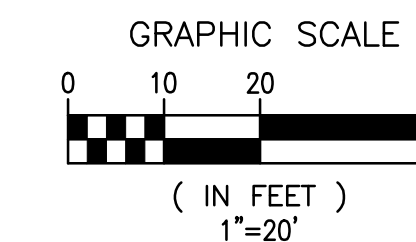
PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

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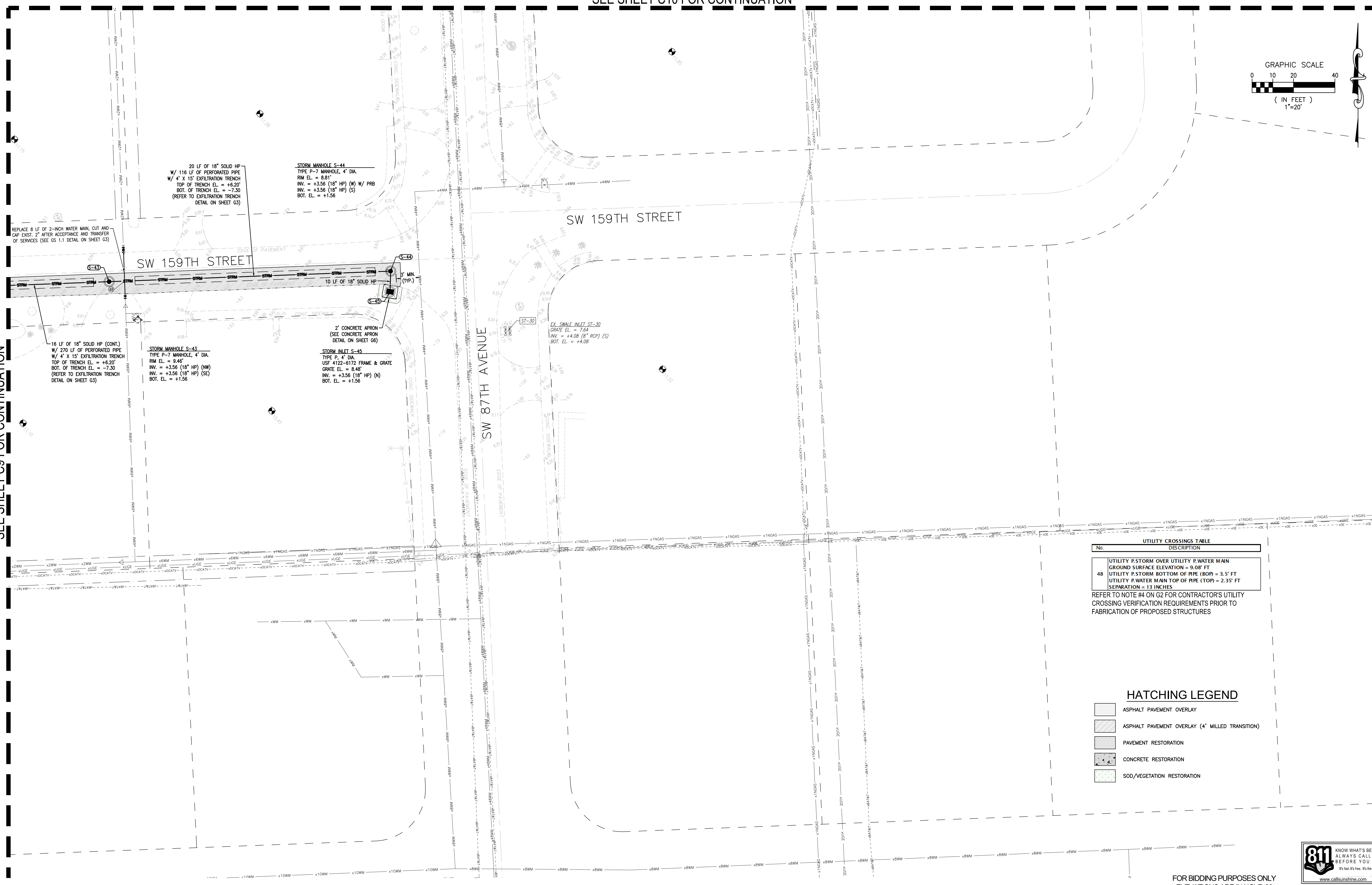
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SEE SHEET C10 FOR CONTINUATION



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SEE SHEET C9 FOR CONTINUATION



No.	DESCRIPTION
48	UTILITY P STORM OVER UTILITY P WATER MAIN GROUND SURFACE ELEVATION = 9.08' FT UTILITY P STORM BOTTOM OF PIPE (BOP) = 3.5' FT UTILITY P WATER MAIN TOP OF PIPE (TOP) = 2.35' FT SEPARATION = 13 INCHES

REFER TO NOTE #4 ON G2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

HATCHING LEGEND

	ASPHALT PAVEMENT OVERLAY
	ASPHALT PAVEMENT OVERLAY (4' MILLED TRANSITION)
	PAVEMENT RESTORATION
	CONCRETE RESTORATION
	SOD/VEGETATION RESTORATION

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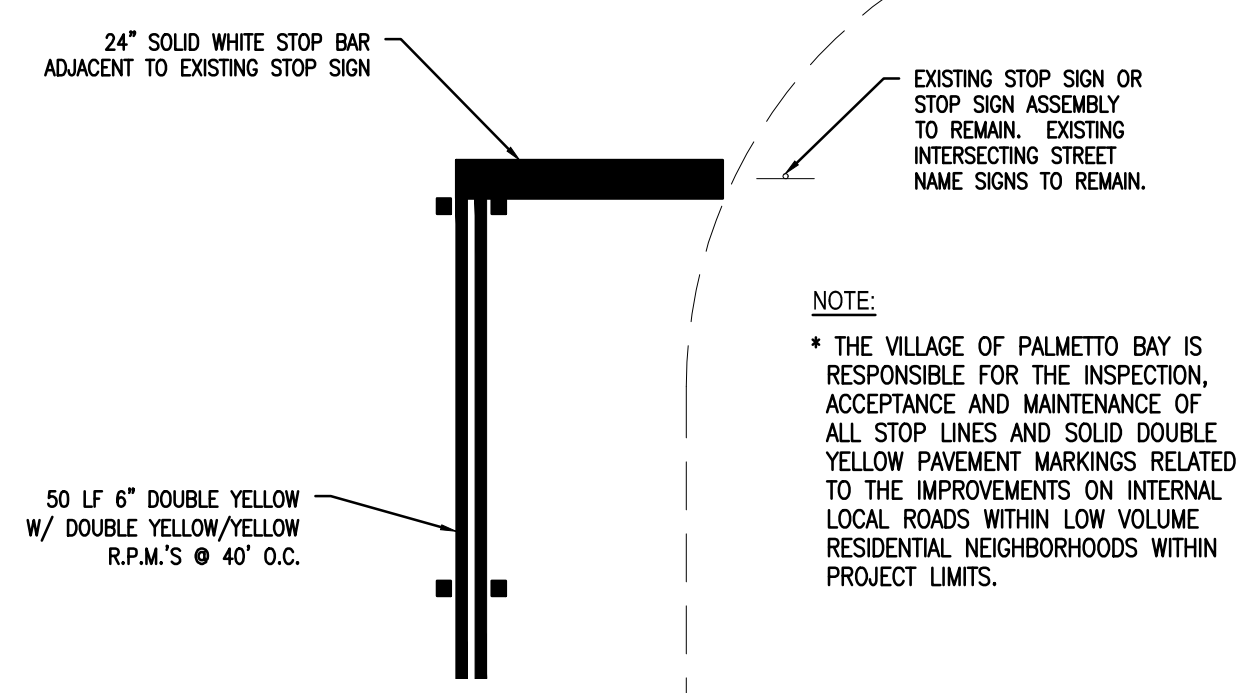
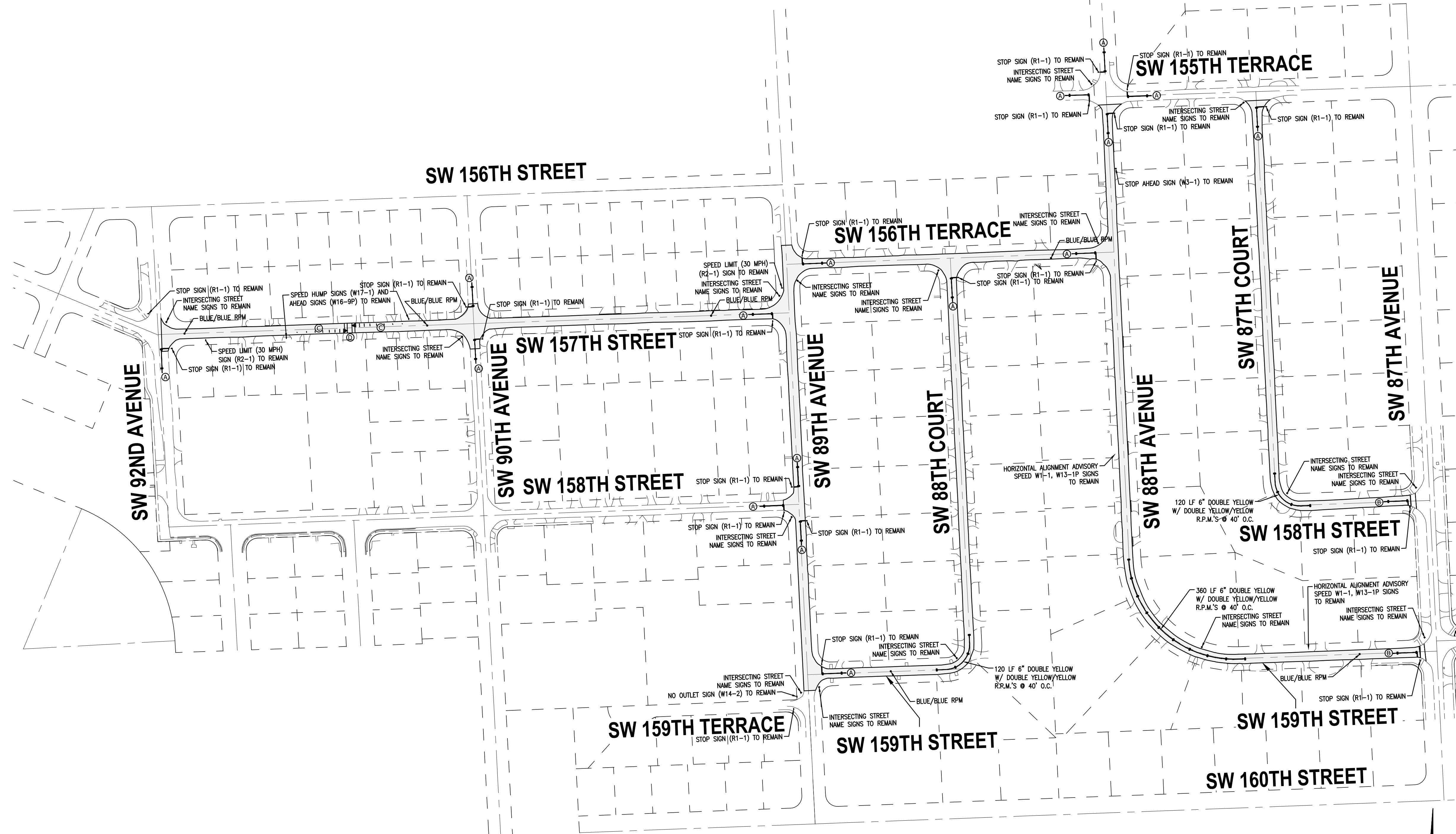
PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

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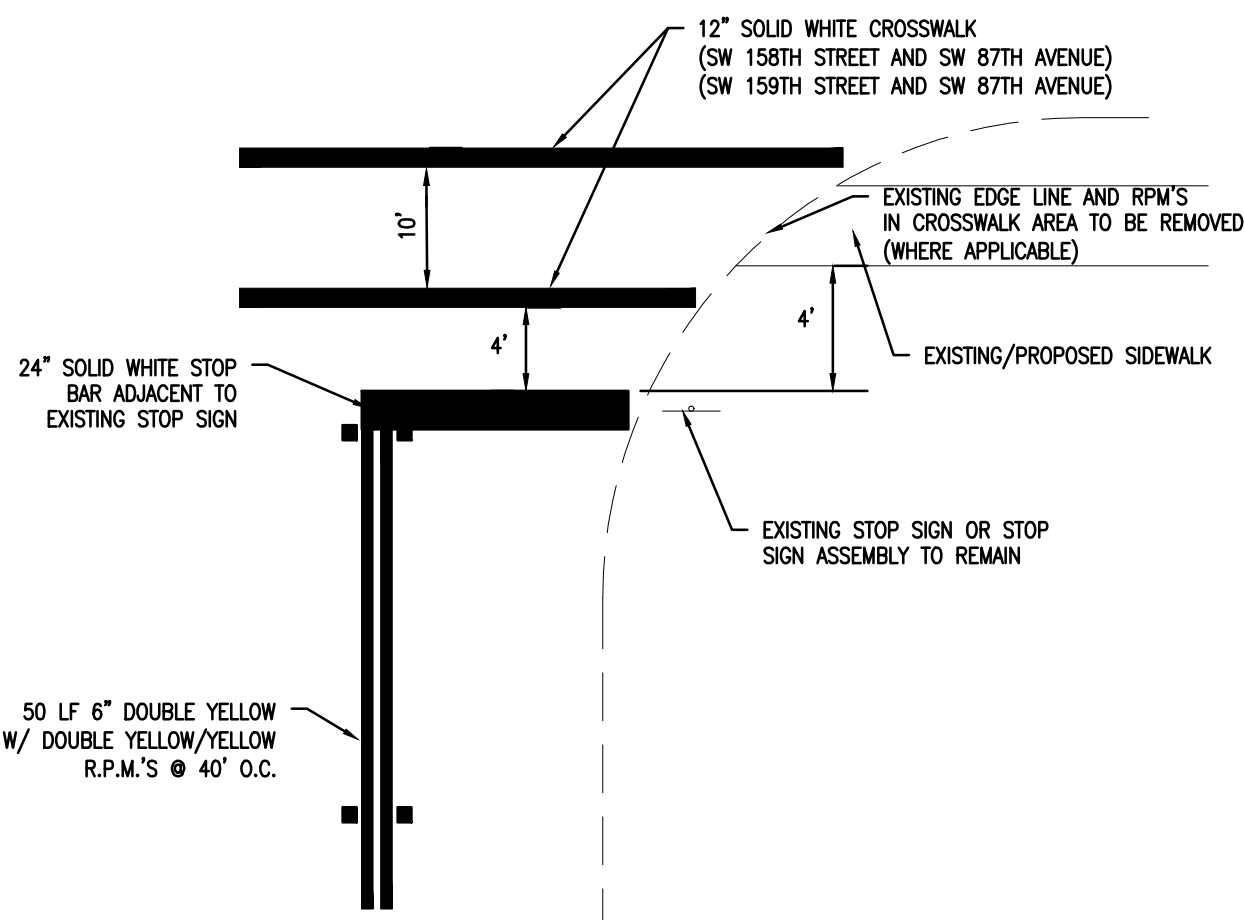
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SHEET
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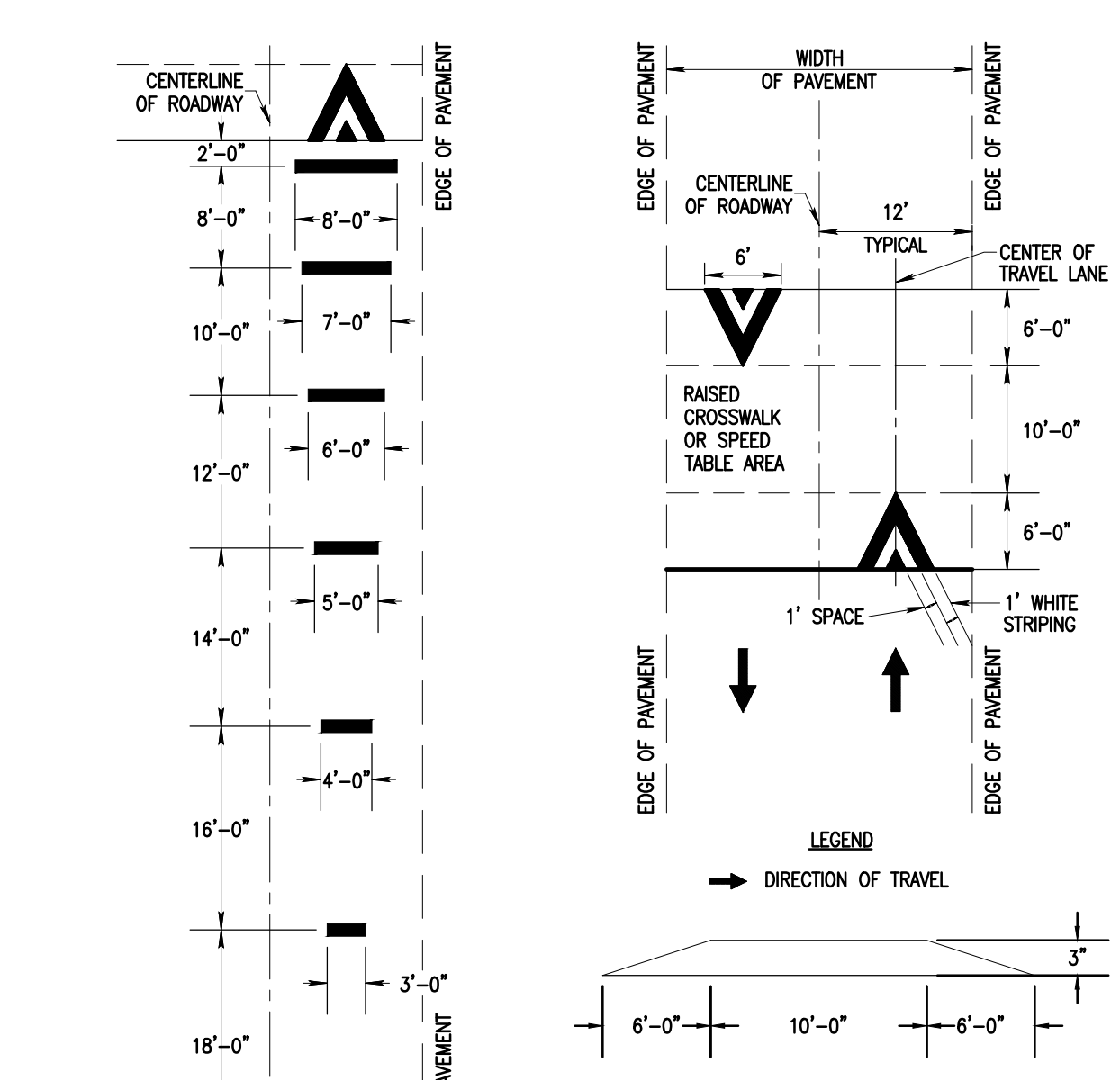
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A TYPICAL STOP BAR DETAIL (W/O CROSSWALK/SIDEWALK)
Scale: N.T.S.



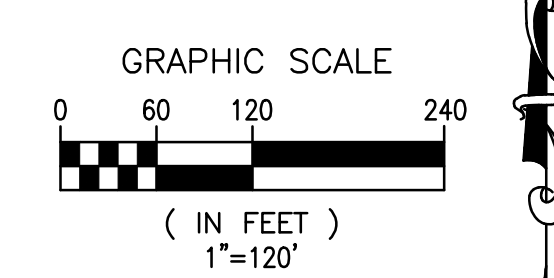
B TYPICAL STOP BAR DETAIL (W/ CROSSWALK/SIDEWALK)
Scale: N.T.S.



D SPEED HUMP DETAIL
Scale: N.T.S.



C SPEED HUMP APPROACH STRIPING DETAIL
Scale: N.T.S.



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PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

PAVEMENT MARKING PLAN AND DETAILS

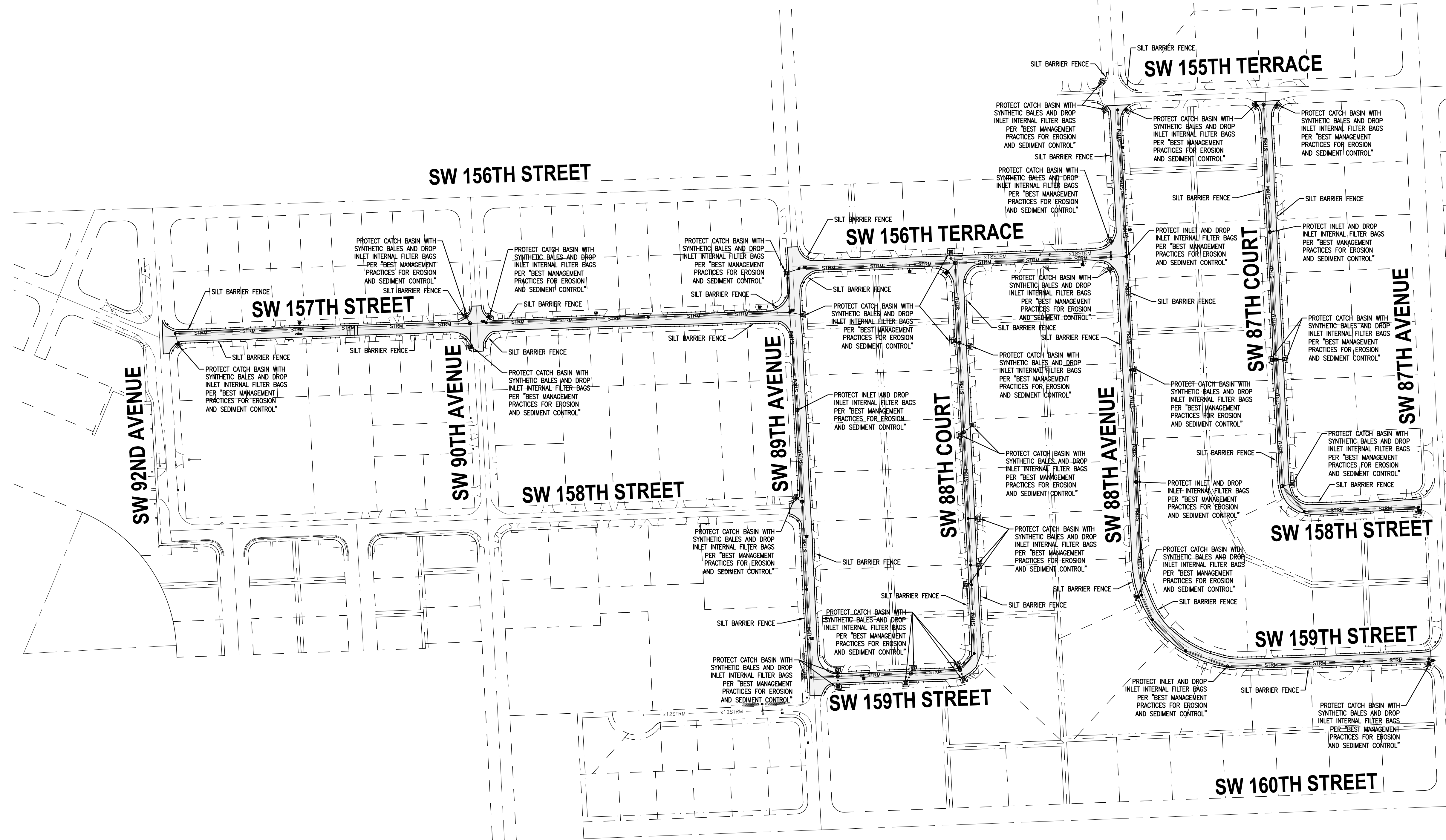
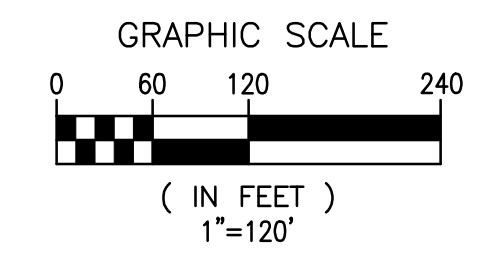
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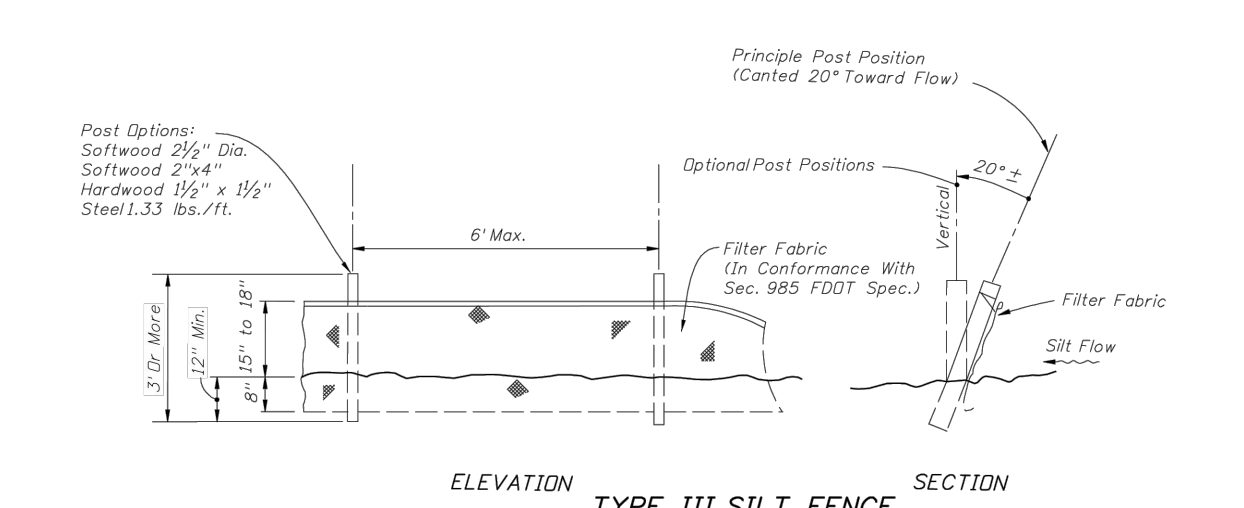
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 SHEET: **C13**
 PROJECT NO: 21-4326.1



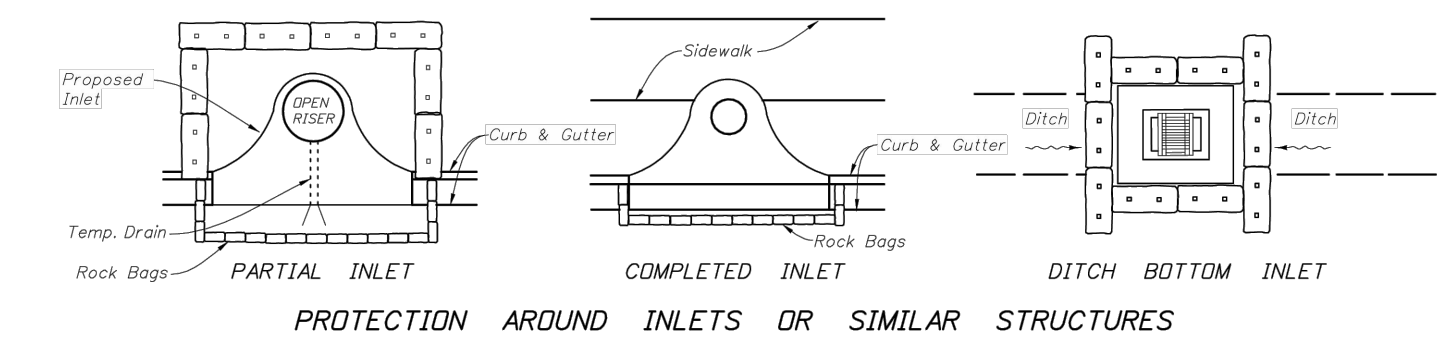
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- SWPPP NOTES:**
- CONTRACTOR SHALL ADHERE TO OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THE CONTRACTOR SHALL INSTITUTE BEST MANAGEMENT PRACTICES (BMPs) TO ENSURE COMPLIANCE WITH THE NPDES PROGRAM AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF INTENT (NOI) SHALL BE FILED PRIOR TO START CONSTRUCTION ACTIVITIES IF APPLICABLE.
 - PRIOR TO DEMOLITION ACTIVITIES, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION CONTROL DEVICES (SILT BARRIERS, SEDIMENT BASINS, ETC.) ACCORDING TO THE APPROVED SWPPP AND AS RECOMMENDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LATEST GUIDELINES AND PERMITTING REQUIREMENTS.
 - PRIOR TO DEMOLITION ACTIVITIES, A SILT FENCE IN ACCORDANCE WITH THE APPROVED SWPPP DETAILS AND LATEST DEP STANDARDS SHALL BE ERECTED AROUND THE SITE PROPERTY LINES. ALL PUBLIC INLETS SURROUNDING THE SITE SHALL BE PROTECTED BY THE INSTALLATION OF FILTER FABRIC INTO THE FRAME AND GRATE OR OTHER APPROVED BMPs TO PROTECT AGAINST STORM RUNOFF.
 - POLLUTION CONTROL INSTALLATIONS, AS APPROVED AND SHOWN IN THE SWPPP, SHALL BE MAINTAINED THROUGHOUT DEMOLITION AND CONSTRUCTION PERIODS UNTIL THE PROJECT HAS BEEN COMPLETED AND APPROVED BY THE VILLAGE ENGINEERING INSPECTOR OR PROJECT ENGINEER.
 - CONTRACTOR SHALL INSPECT THE POLLUTION CONTROL DEVICES DAILY FOR SIGNS OF MALFUNCTION, FAILURE, OR NEEDED REPAIRS, AND SHALL MAKE REMEDIAL ACTIONS IMMEDIATELY UPON DISCOVERY.
 - EXISTING STORMWATER INLETS, CATCH BASINS, OR MANHOLES, ON-SITE AND OFF-SITE, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF FROM THE PROPOSED DEMOLITIONS AND CONSTRUCTION ACTIVITIES.
 - CONTRACTOR SHALL IMMEDIATELY REMOVE ALL MUD, DIRT, OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING ROADS AND FACILITIES DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES FROM THE PROPOSED PROJECT.
 - DUST GENERATED FROM CONSTRUCTION SHALL BE MINIMIZED BY DAILY WATERING OF THE SITE.
- CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENTATION CONTROL INSPECTOR TO INSPECT ALL POINTS OF DISCHARGE INTO NEARBY WATERBODIES TO RECORD THE CONDITION OF DISCHARGE POINTS, INTEGRITY OF SILT FENCE AND POLLUTION CONTROL DEVICES, DUST CONTROL MEASURES, VEHICULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR DURING DEMOLITION AND CONSTRUCTION PERIODS AND SHALL BE SUBMITTED TO VILLAGE INSPECTORS UPON REQUEST.
- THE INSPECTION REPORT SHALL INCLUDE AT A MINIMUM THE FOLLOWING INFORMATION:
- NAME OF INSPECTOR AND HIS/HER QUALIFICATIONS IN EROSION AND SEDIMENTATION CONTROL
 - DATE OF INSPECTION
 - RAINFALL RATE
 - OBSERVATIONS ABOUT THE SWPPP
 - ACTIONS TAKEN BY CONTRACTOR FOR ALL INCIDENTS OF NONCOMPLIANCE WITH PERMIT(S).
 - CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND PERMIT(S).



- NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS**
- Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
 - Bales shall be anchored with 2-1/2" x 2" for 1" dia. x 4" wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
 - Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
 - Adjacent bales shall be butted firmly together.
 - Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
 - Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbags, CF. Rock bags to be paid for under the contract unit price for Rock Bags, EA.



(SEE FDOT 2010 STANDARD INDEX #102 FOR DETAILS)

LEGEND

- PROP. SILT BARRIER FENCE
- PROP. SYNTHETIC BALES AND FILTER FABRIC

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PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

STORMWATER POLLUTION PREVENTION PLAN

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SCALE: AS SHOWN
PROJECT NO: 21-4326.1
SHEET: SWPPP1

STORMWATER POLLUTION PREVENTION PLAN

<p style="text-align: center;">SITE DESCRIPTION</p> <p>PROJECT NAME AND LOCATION: PALMETTO BAY 57/96 DRAINAGE BASIN IMPROVEMENTS</p> <p>LOCATED ON THE VILLAGE OF PALMETTO BAY, FLORIDA R/O/W TO R/O/W FOR ALL ROADS LOCATED WITHIN SW 156TH STREET FROM SW 92ND AVENUE TO SW 80TH AVENUE, SW 80TH AVENUE GOING SOUTH TO SW 156TH TERRACE, SW 156TH TERRACE GOING EAST TO SW 88TH AVENUE, SW 88TH AVENUE GOING NORTH TO SW 155TH TERRACE, SW 155TH TERRACE GOING EAST TO SW 87TH AVENUE, SW 87TH AVENUE GOING SOUTH TO SW 160TH STREET, SW 160TH STREET GOING WEST TO SW 89TH AVENUE, SW 89TH AVENUE GOING NORTH TO SW 158TH STREET, SW 158TH STREET GOING WEST TO SW 92ND AVENUE AND SW 92ND AVENUE GOING NORTH TO SW 156TH STREET.</p> <p>OWNER NAME AND ADDRESS: VILLAGE OF PALMETTO BAY, FLORIDA 9705 E HIBISCUS STREET PALMETTO BAY, FL 33157</p> <p>DESCRIPTION: INSTALL NEW 18" STORM PIPE, 4' X 15' EXFILTRATION TRENCH (FRENCH DRAIN) WITH 18" PERFORATED PIPE, CATCH BASINS, AND MANHOLES</p> <p><u>SOIL DISTURBING ACTIVITIES</u> EXCAVATING, INSTALLING STORM PIPE & EXFILTRATION TRENCH, BACKFILLING, COMPACTING, AND RESTORING DISTURBED AREAS</p> <p>RUNOFF CURVE NUMBERS:</p> <table border="1" style="width:100%;"> <tr> <td style="width:50%;">AREA</td> <td style="width:50%;">N/A</td> </tr> <tr> <td>1. PRE-CONSTRUCTION</td> <td>N/A</td> </tr> <tr> <td>2. DURING CONSTRUCTION</td> <td>N/A</td> </tr> <tr> <td>3. POST-CONSTRUCTION</td> <td>N/A</td> </tr> </table> <p>SOILS: REFER TO GEOTECHNICAL REPORT</p> <p>SITE MAPS: REFER TO PLANS</p> <p>SITE AREA: 1. TOTAL BASIN AREA: ~55.34 ACRES 2. RIGHT OF WAY AREA: ~11.66 ACRES</p> <p>NAME OF RECEIVING WATERS: RUNOFF TO BE CONTAINED ONSITE</p>	AREA	N/A	1. PRE-CONSTRUCTION	N/A	2. DURING CONSTRUCTION	N/A	3. POST-CONSTRUCTION	N/A	<p style="text-align: center;">GENERAL</p> <p>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.</p> <p style="text-align: center;"><u>SEQUENCE OF MAJOR ACTIVITIES:</u></p> <p>AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.</p> <p style="text-align: center;"><u>ENDANGERED SPECIES AND CRITICAL HABITAT</u></p> <p>1. ARE THERE ENDANGERED SPECIES ON SITE? <u>NONE KNOWN.</u> 2. ARE THERE CRITICAL HABITAT ON SITE? <u>NONE KNOWN.</u> IF YES TO EITHER QUESTION, PLEASE EXPLAIN.</p> <p style="text-align: center;"><u>CONTROLS</u></p> <p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE GRADING, DRAINAGE & EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE GRADING, DRAINAGE & EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE GRADING, DRAINAGE & EROSION CONTROL PLAN AND AS REQUIRED TO MEET THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES (IF APPLICABLE):</p> <p>1. SYNTHETIC BALE BARRIER: SYNTHETIC BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF SYNTHETIC BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT. REFER TO EROSION CONTROL DETAILS FOR CONSTRUCTING THE SYNTHETIC BALE BARRIER. ALSO, REFER TO THE STORMWATER POLLUTION PREVENTION PLAN FOR PROPER LOCATION.</p> <p>2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES. REFER TO THE EROSION CONTROL DETAILS FOR PROPER CONSTRUCTION OF THE FILTER FABRIC BARRIER.</p>	<p>3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.</p> <p>4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.</p> <p>5. STOCKPIILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPIILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.</p> <p>6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE MINIMIZED.</p> <p>7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.</p> <p>8. DUST CONTROL: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL TREATMENT WITHIN 30 DAYS SHALL BE STABILIZED.</p> <p>9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.</p> <p>10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>11. TEMPORARY REGASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION.</p> <p>STRUCTURAL PRACTICES (IF APPLICABLE):</p> <p>1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.</p> <p>2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER -- THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. B. GRAVEL SEDIMENT TRAP -- THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONEVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. C. DROP INLET SEDIMENT TRAP -- THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & SYNTHETIC BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</p> <p>4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS, THE PROPOSED STORMWATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 67 CUBIC YARDS OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE. THE VOLUME OF THE BASIN AT CLEAN OUT SHALL BE 22 CUBIC YARDS PER ACRE.</p>	<p style="text-align: center;">OTHER CONTROLS</p> <p>HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. * ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p style="text-align: center;"><u>SPILL CONTROL PRACTICES</u></p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p style="text-align: center;"><u>SPILL PREVENTION</u></p> <p>MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. * AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. * ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE. * PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL ORIGINAL MANUFACTURER'S LABEL. * SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. * WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED. * THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.</p>	<p>* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.</p> <p>* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.</p> <p>* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.</p> <p>* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.</p> <p>* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p> <p style="text-align: center;">NON-STORMWATER DISCHARGES</p> <p>IT IS EXPECTED THAT THE FOLLOWING NON-STORMWATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:</p> <p>* WATER FROM WATER LINE FLUSHING</p> <p>* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).</p> <p>* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).</p> <p>ALL NON-STORMWATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.</p> <p style="text-align: center;">CONTRACTOR'S CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p> <table border="1" style="width:100%; text-align: center;"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg);">RESPONSIBLE FOR/DUTES</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">GENERAL CONTRACTOR</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SUB-CONTRACTOR</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SUB-CONTRACTOR</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SUB-CONTRACTOR</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SUB-CONTRACTOR</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p style="text-align: center;">BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS</p> <p style="text-align: center;">SIGNATURE</p> <p style="text-align: center;">MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. NO MORE THAN 5 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.25 INCHES OR GREATER. ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p>	RESPONSIBLE FOR/DUTES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR																				
AREA	N/A																																					
1. PRE-CONSTRUCTION	N/A																																					
2. DURING CONSTRUCTION	N/A																																					
3. POST-CONSTRUCTION	N/A																																					
RESPONSIBLE FOR/DUTES	GENERAL CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR	SUB-CONTRACTOR																																	

File Name: P:\Projects\2021\214326 Palmetto Bay - Professional Consulting Services\214326.1 Palmetto Bay Drainage Sub-Basins 57/96 Improvements\CADD Files\Drawings\214326.1-C-SWPPP2.dwg - (Plotted by: Sebastian Soris on Monday, August 7, 2023 1:35:58 PM)



FOR BIDDING PURPOSES ONLY
ELEVATIONS ARE IN NGVD 29

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DATE: 08-03-2023

SCALE
AS SHOWN
PROJECT NO
21-4326.1

SWPPP2

**PALMETTO BAY SUB-BASIN
57/96 IMPROVEMENTS**
VILLAGE OF PALMETTO BAY

**STORMWATER POLLUTION
PREVENTION PLAN
NOTES & SPECIFICATIONS**

Calvin, Giordano & Associates, Inc.
A SAFEBUILD COMPANY
1800 Eller Drive, Suite 600, Fort Lauderdale, FL 33316
Phone: 954.921.7781 • Fax: 954.921.8807

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY
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Exhibit C

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

VILLAGE OF PALMETTO BAY

PROJECT No: 21-4326.1
TJL-CON-24

File Name: P:\Projects\2021\14326.1 Palmetto Bay - Professional Consulting Services\14326.1 Palmetto Bay Drainage Sub-Basin 57/96 Improvements\000 Final\Drawings\14326.1-C-0006.dwg - (Plotted by: Sebastian Soko on Thursday, May 11, 2023 2:53:59 PM)

Sheet Number	Sheet List Table	Sheet Title
G0	COVER SHEET	
G1	SIGNATURE SHEET	
G2	LEGENDS, ABBREVIATIONS AND GENERAL NOTES	
G3	DETAILS	
G4	DETAILS	
G5	DETAILS	
G6	DETAILS	
G7	KEY MAP	
C1	DRAINAGE PLAN	
C2	DRAINAGE PLAN	
C3	DRAINAGE PLAN	
C4	DRAINAGE PLAN	
C5	DRAINAGE PLAN	
C6	DRAINAGE PLAN	
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C9	DRAINAGE PLAN	
C10	DRAINAGE PLAN	
C11	DRAINAGE PLAN	
C12	PAVEMENT OVERLAY PLAN	
C13	PAVEMENT MARKING PLAN AND DETAILS	
SWPPP1	STORMWATER POLLUTION PREVENTION PLAN	
SWPPP2	STORMWATER POLLUTION PREVENTION PLAN NOTES & SPECIFICATIONS	
SWPPP3	STORMWATER POLLUTION PREVENTION PLAN CONTRACTOR FORMS	



DEEMED

PLAN REVIEW

FINAL APPROVAL

DIVISION OF ENVIRONMENTAL RESOURCES MANAGEMENT

CITY OFFICIALS

MAYOR:	KARYN CUNNINGHAM
VICE-MAYOR:	LEANNE TELLAM
COUNCILMEMBER:	PATRICK FIORE
COUNCILMEMBER:	STEVE CODY
COUNCILMEMBER:	MARSHA MATSON
VILLAGE MANAGER:	NICK MARANO

(PRINT): DEBBIE JAMES
6/21/2023

DATE: MAY 25, 2023

2023-DTM-MISC-00031

LOCATION MAP
Scale: 1" = 500'

- NOTES:
- RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
 - AN ELECTRONIC CAD FILE CAN BE PROVIDED FOR SURVEY LAYOUT.

BENCHMARK:
ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETTIC VERTICAL DATUM OF 1929 (NGVD29) AS REFERENCED TO MIAMI-DADE COUNTY BENCHMARK B-270-R REFERENCED BELOW:
BENCHMARK B-270-R: SW 158TH STREET (APPROXIMATELY) US #1 - 20' WEST OF C/L OF SOUTHBOUND LANE, C-100 CANAL (CUTLER DRAIN) - 40' NORTH OF C/L OF CANAL; SW BRASS DECK IN CONCRETE SIDEWALK AT NW CORNER OF BRIDGE, (N+489,557.00, E+872,463.00) ELEVATION = 10.86 (NGVD).

PERMITTING AGENCIES	DATE SUBMITTED	COA INITIALS	DATE APPROVED	PERMIT NUMBER
MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES - GENERAL PLAN REVIEW	-	-	-	-
VILLAGE OF PALMETTO BAY BUILDING DEPARTMENT - MIT PERMIT (BY CONTRACTOR)	-	-	-	-
VILLAGE OF PALMETTO BAY BUILDING DEPARTMENT - PUBLIC WORKS PERMIT (BY CONTRACTOR)	-	-	-	-
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY - DSP PERMIT (BY CONTRACTOR)	-	-	-	-
MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES - DEMONSTRATING (CLASS V) PERMIT (BY CONTRACTOR)	-	-	-	-

CA Calvin, Giordano & Associates, Inc.
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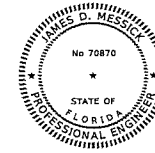
PERMIT SET
ELEVATIONS ARE IN NGVD 29



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

CURRENT REV No.: -----	<small>SALES & RESERV. STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 1088</small> THIS SEAL HAS BEEN INITIALLY SIGNED AND SEALED BY JASON W. KELLY ON 05/25/2023. RECALCULATED. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED IN ANY E-FILED DOCUMENT. DATE: 04-24-2023	SHEET: GO
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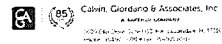


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 1800 ELLER DRIVE, SUITE 600
 FORT LAUDERDALE, FLORIDA 33316
 954-921-7781

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

Sheet Number	Sheet Title
G0	COVER SHEET
G1	SIGNATURE SHEET
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G4	DETAILS
G5	DETAILS
G6	DETAILS
G7	KEY MAP
C1	DRAINAGE PLAN
C2	DRAINAGE PLAN
C3	DRAINAGE PLAN
C4	DRAINAGE PLAN
C5	DRAINAGE PLAN
C6	DRAINAGE PLAN
C7	DRAINAGE PLAN
C8	DRAINAGE PLAN
C9	DRAINAGE PLAN
C10	DRAINAGE PLAN
C11	DRAINAGE PLAN
C12	PAVEMENT OVERLAY PLAN
C13	PAVEMENT MARKING PLAN AND DETAILS
SWPPP1	STORMWATER POLLUTION PREVENTION PLAN
SWPPP2	STORMWATER POLLUTION PREVENTION PLAN NOTES & SPECIFICATIONS
SWPPP3	STORMWATER POLLUTION PREVENTION PLAN CONTRACTOR FORMS

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY



PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

SIGNATURE SHEET

DATE: 04-24-2023

PERMIT SET
 ELEVATIONS ARE IN NGVD 29



SCALE	AS SHOWN	SHEET	G1
PROJECT NO.	21-4326.1		

File Name: S:\Projects\2021\141033 Palmetto Bay - Professional Consulting Services\141033\1-1-2024\DWG - (P) - Palmetto Bay Sub-Basin 57/96 Improvements\141033-1-1-2024.dwg -- (P) - Palmetto Bay Sub-Basin 57/96 Improvements\141033-1-1-2024.dwg -- (P) - Palmetto Bay Sub-Basin 57/96 Improvements\141033-1-1-2024.dwg -- (P) - Palmetto Bay Sub-Basin 57/96 Improvements\141033-1-1-2024.dwg

ABBREVIATION LEGEND	LINE TYPE LEGEND	PROPOSED SYMBOL LEGEND	EXISTING SYMBOL LEGEND
AC ASBESTOS CEMENT RV AIR RELEASE VALVE BL BASELINE BVP BACKFLOW PREVENTER BV BUTTERFLY VALVE BM BENCH MARK BOP BOTTOM OF PIPE BSP BACTERIOLOGICAL SAMPLING POINT CAP CORRUGATED ALUMINUM PIPE CB CATCH BASIN CI CURB INLET CP CAST IRON PIPE CLF CHAIN LINK FENCE CWP CORRUGATED METAL PIPE CO CLEAROUT COUM COUPLER/UNION CONC CONCRETE DE DRAINAGE EASEMENT DIP DUCTILE IRON PIPE DNF DID NOT FIND E EAST EL ELEVATION EDW EDGE OF WATER EX EXISTING EXST EXISTING EXFL EXFILTRATION FF EL FINISHED FLOOR ELEVATION FH FIRE HYDRANT FM FORCE MAIN FO FIBER OPTIC FPL FLUOROPOLYMER AND LIGHT GAVY GATE VALVE HP HIGH DENSITY POLYETHYLENE HORIZ HORIZONTAL HP HIGH POINT INV INVERT JB JUNCTION BOX LF LINEAR FEET LET LEFT MAX MAXIMUM ME MATCH EXISTING MH MANHOLE MIN MINIMUM MJ MECHANICAL JOINT N NORTH NAVD NORTH AMERICAN VERTICAL DATUM NAVD NATIONAL GEODETIC VERTICAL DATUM NIC NOT IN CONTRACT NTS NOT TO SCALE OE OVERHEAD ELECTRIC PE POLYETHYLENE PMS PAVEMENT MARKING AND SIGNING PRB POLLUTION RETARDANT BAFFLE PROP PROPOSED PS POUNDS PER SQUARE INCH PV PLUG VALVE PVC POLYVINYL CHLORIDE R RADIUS RCP REINFORCED CONCRETE PIPE RW RECLAIMED WATER RED REDUCER R/W RIGHT-OF-WAY S SOUTH SHN SANITARY SF SQUARE FEET STA STATION STL STEEL SY SQUARE YARDS TEMP TEMPORARY TOB TOP OF BANK TOP TOP OF PIPE TV TAPPING VALVE TYP TYPICAL UE UTILITY EASEMENT UNK UNKNOWN VCP VITRIFIED CLAY PIPE VERT VERTICAL W WEST WM WATER MAIN	--- LOT LINE --- CENTER LINE --- EXISTING LINE --- RIGHT-OF-WAY LINE --- SECTION LINE --- NON-VOLUNTARY ACCESS LINE --- CLEARANCE --- EXISTING CHAIN LINK FENCE --- PROPOSED CHAIN LINK FENCE --- EXISTING WOOD FENCE --- EXISTING POCKET FENCE --- EXISTING FORCE MAIN --- EXISTING ABANDONED FORCE MAIN (R) --- PROPOSED FORCE MAIN --- EXISTING SANITARY SEWER LATERAL --- EXISTING SANITARY SEWER LATERAL TO BE ABANDONED IN PLACE --- EXISTING SANITARY SEWER MAIN --- EXISTING SANITARY SEWER MAIN TO BE ABANDONED IN PLACE --- PROPOSED SANITARY SEWER LATERAL --- PROPOSED SANITARY SEWER MAIN --- EXISTING STORM SEWER --- EXISTING STORM PIPE TO BE ABANDONED IN PLACE --- PROPOSED STORM SEWER --- EXISTING POTABLE WATER SERVICE --- EXISTING POTABLE WATER MAIN --- EXISTING ABANDONED POTABLE WATER MAIN --- EXISTING POTABLE WATER MAIN TO BE ABANDONED IN PLACE --- EXISTING POTABLE WATER MAIN TO BE REMOVED --- PROPOSED POTABLE WATER MAIN --- EXISTING RECLAIMED WATER MAIN --- EXISTING RECLAIMED WATER MAIN TO BE REMOVED --- EXISTING IRRIGATION --- EXISTING FUEL LINE --- EXISTING NATURAL GAS --- EXISTING OVERHEAD FIBER OPTIC --- EXISTING BURIED FIBER OPTIC --- EXISTING OVERHEAD AT&T --- EXISTING BURIED AT&T --- EXISTING OVERHEAD COMCAST --- EXISTING BURIED COMCAST --- EXISTING OVERHEAD VERIZON (A/C) --- EXISTING BURIED VERIZON (A/C) --- EXISTING OVERHEAD ELECTRIC --- EXISTING UNDERGROUND ELECTRIC --- EXISTING OVERHEAD BROWARD COUNTY TRAFFIC --- EXISTING BURIED BROWARD COUNTY TRAFFIC --- EXISTING OVERHEAD WIRE	H BOLLARD ● AIR RELEASE VALVE † BACTERIOLOGICAL SAMPLE POINT C.B.S.P. No. BACTERIOLOGICAL SAMPLE POINT NUMBER W WATER METER ♦ FIRE HYDRANT FIRE DEPARTMENT CONNECTION SINGLE WATER SERVICE DOUBLE WATER SERVICE DRAINFLOW PREVENTER DOUBLE DETECTOR CHECK VALVE REDUCER GATE VALVE TEMPORARY LINE STOP 90°, 45°, 22.5° & 11.25° BENDS TEE CROSS PLUG BLOWOFF VERTICAL BENDS → SANITARY FLOW DIRECTION CLEAN OUT SANITARY MANHOLE SINGLE SANITARY LATERAL DOUBLE SANITARY LATERAL DRAINAGE FLOW SPOT GRADE SPOT GRADE (TOP OF CURB) SIGN CATCH BASIN STORM MANHOLE CLEANOUT SLUTTED DRAIN STORM YARD DRAIN PS STORM INLET PS STORM INLET PS STORM INLET EXFILTRATION TRENCH HEADWALL MITRED END - RCP MITRED END - TP SYNTHETIC BALES & FILTER FABRIC ROCK BARS W/ SYNTHETIC BALES & FILTER FABRIC SILY BARRIER FENCE TURBOGYE BARRIER	SPOT ELEVATION (M) † EXISTING FINISHED FLOOR ELEVATION BOLLARD AT&T MANHOLE AT&T RESOR AT&T MANHOLE AT&T FIBER OPTIC MARKER AT&T FIBER OPTIC VALVE CABLE TV MANHOLE CABLE TV RESOR EXISTING MANHOLE ELECTRIC METER FPL MANHOLE FPL TRANSFORMER TRAFFIC CONTROL BOX TRAFFIC PEDESTAL TRAFFIC POLE & MAST ARM TRAFFIC PULL BOX TRAFFIC SIGNAL CONCRETE UTILITY POLE GUY ANCHOR LUMINAIRE POLE-MOUNTED LIGHTS WOOD UTILITY POLE GAS METER GAS VALVE UNDERGROUND PROPANE TANK WALLBOX SIGN FORCE MAIN AIR RELEASE VALVE FORCE MAIN VALVE SANITARY CLEANOUT SANITARY MANHOLE CATCH BASIN TYPE PS INLET TYPE PS INLET TYPE PS INLET STORM MANHOLE YARD DRAIN AIR RELEASE VALVE FIRE DEPARTMENT CONNECTION (FDC) FIRE HYDRANT REDUCER WATER VALVE WATER VALVE W/ CONCRETE COLLAR WATER METER BACKFLOW PREVENTOR IRRIGATION VALVE SUBSURFACE UTILITY EXCAVATION POINT
	HATCHING LEGEND ASPHALT PAVEMENT OVERLAY ASPHALT PAVEMENT OVERLAY (4" MILLED TRANSITION) PAVEMENT RESTORATION CONCRETE RESTORATION SOD/VEGETATION RESTORATION		EXISTING TREE LEGEND AREA PALM BLACK GLAZE COCONUT PALM DATE PALM FIM PALM LIVE OAK MANGO PALM ROYAL PALM TROPICAL UNKNOWN TREE

- PROJECT NOTES:**
- CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC (MOT) PLANS TO VILLAGE OF PALMETTO BAY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. SPECIFIC AGENCY MOT REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO PRIVATE PROPERTY AND ALL SCHOOLS AT ALL TIMES.
 - CONTRACTOR IS ADVISED THAT WORK BY OTHERS MAY TAKE PLACE DURING THE DURATION OF THE CONTRACT TIME.
 - CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS BEFORE STARTING CONSTRUCTION.
 - THE CONTRACTOR MUST USE EXTREME CARE TO AVOID DAMAGE OR DISRUPTION TO ANY EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. ALL PLAN LOCATIONS ARE APPROXIMATE AND EXISTING PROPOSED UTILITY CROSSING SHALL BE FIELD VERIFIED VIA PITHOLES. EXCAVATIONS PRIOR TO THE SHOP DRAWING SUBMITTAL PHASE. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT FLORIDA STATE ONE CALL OF FLORIDA AT 811 AND ALL OTHER PARTICIPATING UTILITIES AT LEAST TWO FULL BUSINESS DAYS PRIOR TO CONSTRUCTION FOR FIELD MARKUP LOCATIONS OF EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR MUST INFORM THE VILLAGE AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE OF CONSTRUCTION, IN WRITING, IF ANY CONFLICT IS DISCOVERED DURING POT HOLE OPERATIONS FOR CLARIFICATION.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE VILLAGE OR MANA-DAVE COUNTY'S UTILITIES DEPARTMENT AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO COORDINATE ANY ACTIVITY TO BE PERFORMED. A VILLAGE ENGINEERING PERMIT IS REQUIRED AT LEAST THREE (3) BUSINESS DAYS PRIOR TO CONSTRUCTION OR BEFORE THE PRECONSTRUCTION MEETING, WHICHEVER OCCURS FIRST.
 - CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE PROJECT AREA. IF ANY AREA IS DISTURBED, CONTRACTOR SHALL REPAIR TO EQUAL OR BETTER WITH APPROVAL OF THE VILLAGE AND/OR THE PROPERTY OWNERS. THE CONTRACTOR SHALL COORDINATE SELECTION AND RENEW OF ANY PROPOSED STAGING AREAS WITH THE VILLAGE OF PALMETTO BAY AND FOOT PRIOR TO USE. THE STAGING AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE VILLAGE.
 - CONTRACTOR SHALL COMPLY WITH ALL VILLAGE OF PALMETTO BAY REGULATIONS PERTAINING TO THE CLOSING OF PUBLIC STREETS FOR USE OF TRAFFIC DURING CONSTRUCTION.
 - NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND A CONSTRUCTION METER FROM THE VILLAGE OF PALMETTO BAY OR MANA-DAVE COUNTY WATER AND SEWER DEPARTMENT.
 - A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN FOR WATER SERVICE AND WASTEWATER SERVICE JURISDICTION FOR APPROVAL AT LEAST SEVEN (7) CALENDAR DAYS PRIOR TO THE ANTICIPATED DISRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS 48 HOURS IN ADVANCE OF ANY WORK ON THEIR SERVICES.
 - STATIONS (IF SHOWN ON THE DRAWINGS) ARE BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
 - ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. TEMPORARY ASPHALT SHALL BE REQUIRED ON TOP OF ALL TRENCHES THAT ARE RESTORED WEEKLY. TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL NOT BE LEFT OPEN DURING NIGHT TIME HOURS OR ON WEDNESDAYS AND HOLIDAYS WITHOUT ADEQUATE PROTECTION AND WRITTEN APPROVAL FROM THE VILLAGE.
 - CONTRACTOR SHALL PROMPTLY REPAIR AND RESTORE EXISTING PAVEMENT, SIDEWALKS, CURBS, DRIVEWAYS, PIPES, RESIDENTIAL AND COMMERCIAL SPRINKLER LINES, CONDOUT, CABLES, ETC. AND LANDSCAPE AREAS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES WITHIN 24 HOURS FROM WHEN THE DAMAGE OCCURRED. SAW-CUTTING IS REQUIRED AT THE EXCAVATION LIMITS PRIOR TO REMOVAL OF ANY CONCRETE OR ASPHALT.
 - CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AS REQUIRED BY AGENCIES HAVING JURISDICTION OVER THE PROJECT AND/OR WHICH REQUIRED FOR PUBLIC SAFETY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF WORK, FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
 - CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND HOLES, PULL BOXES, INLETS AND SIMILAR STRUCTURES IN CONSTRUCTION AREAS TO BE RESURFACED OR OVERLAD WITH ASPHALT.
 - CONTRACTOR SHALL RESTORE EXISTING PAVEMENT MARKINGS AND SIGNAGE DAMAGED BY CONSTRUCTION ACTIVITIES. ALL PAVEMENT MARKINGS TO BE RESTORED SHALL BE PERFORMED BY A CONTRACTOR HAVING A MANA-DAVE COUNTY CERTIFICATE OF COMPETENCY LICENSE.
 - THE EXISTING SURVEY DOES NOT SHOW ALL TREES AND LANDSCAPING. A HORIZONTAL CLEARANCE OF FIVE FEET FROM PALMS, TWENTY FEET FROM OAKS, AND TEN FEET FROM NON-MATURE TREES SHALL BE MAINTAINED. PROPER TREE PROTECTION IS REQUIRED TO BE SET UP PRIOR TO OPERATING EQUIPMENT. CONTRACTOR SHALL PERFORM A SITE VISIT TO DETERMINE EXISTING CONDITIONS, SUCH AS TREES AND OTHER ABOVEGROUND AND OVERHEAD FEATURES, PRIOR TO BID SUBMITTAL.
 - ANY DAMAGE TO EXISTING SIDEWALK, ASPHALT, SOIL, CONCRETE, OR OTHER SURFACE OUTSIDE OF THE LIMITS SHOWN AND QUANTIFIED IN THE BID FORM IN THE DRAWINGS SHALL BE REPLACED AT THE CONTRACTOR'S DISPOSE AT NO ADDITIONAL COST TO THE VILLAGE.

1. ALL DRAWINGS AND RECORD SHEETS FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

2. UNLESS OTHERWISE SPECIFIED, ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

9. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

10. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

DATE	APPROVED BY	ITEM	CROSS REF.	SHEET
06/17/2016	SV	GS	0.5	1 of 2

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
07/27/2016	SV	STANDARD REQUIREMENTS WATER AND SEWER CONSTRUCTION	GS	0.5	2 of 2

1. AT THE COMPLETION OF ANY WATER AND SEWER CONSTRUCTION CONTRACT, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS WHICH HAVE BEEN CHECKED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (ETC. OF PROVISIONS AS REQUIRED BY THE DEPARTMENT).

2. "RECORD DRAWING" FORMAT:
a. 24" x 36" PRINTS
b. PDF FILE
c. CAD FILE (DWG OR DWT) RETAINED AND TRANSMITTED TO STATE PLANE COORDINATES AND ALL FLORIDA LIST ZONE
d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS
e. TITLE BLOCK WITH DEPARTMENT LOGO, OR FOR OR NUMBER AND PROJECT INFORMATION
f. PREPARED SCALE TO BE 1" = 40' HORIZONTAL AND 1" = 4' VERTICAL
g. SHEET NUMERATION
h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
i. SEPARATE WATER AND SEWER PROFILES
j. STATIONING STARTING WITH CHAIN AND POINT NUMBER INTERSECTION POINT (I.E., 5, ETC.) OR AS SHOWN ON SECTION POINT PLANS, AND TO END CONTINUOUSLY TO END OF MAIN
k. EXCEPTED, IF ANY, TO PERMANENT REFERENCE POINT
l. EXCEPT ALL CONTROL LINES (I.E. BENCH LINE, PROPERTY LINE, ETC.)
m. ALL PROPOSED INFORMATION TO BE REMOVED FROM ORIGINAL, LEAVING ONLY RECORD DRAWING INFORMATION INDICATED IN DRAWINGS.

3. WATER "RECORD DRAWING" MUST INCLUDE:
a. PLUMB SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, COLLECTIONS (IF ANY), SECTION OF SERVICE, MAINS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY ORGANIZATIONS SHALL BE CLEARLY IDENTIFIED AND LOCATED.
b. PROFILE SHOWING TOP OF DRAINAGE AND TOP OF PIPE ELEVATIONS AT EVERY 10' STATION AND AT ANY CHANGE IN GRADE, WITH CORRESPONDING STATION, PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLUMB.
c. SINKY "RECORD DRAWING" MUST INCLUDE:
i. PLAN SHOWING MANHOLE NUMBER, PIPE SIZE AND PIPE MATERIALS OF PIPE, DIRECTION, SLOPE OF CHAINY SINKY, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND DISTANCES.
ii. THE HORIZONTAL AND ELEVATION COORDINATES ON ALL FIELDS OBTAINED MEASUREMENTS AND PROMISED ON ALL RECORD DRAWINGS SUBMITTALS.
iii. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN, RW AND HIGHEST ELEVATION), HOLE NUMBER, ONE HOLE, LABEL, NO. OF MAIN, DIRECTION, SLOPE AND CHAINY STATIONING AT EACH 10' INTERVAL.
4. FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.

5. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.

* OTHER SCALE MAY BE PROVIDED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO SUBMISSION OF DRAWINGS.

DATE	APPROVED BY	ITEM	CROSS REF.	SHEET
07/27/2016	SV	GS	0.5	2 of 2

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
07/27/2016	SV	"RECORD DRAWING" REQUIREMENTS	GS	0.5	2 of 2

NOTES:
1. STORM SEWER, COUNTRY INTERSECTIONS AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAIN SHALL BE USED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF THREE (3) FEET BETWEEN THE INSIDE OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE DISTANCE BETWEEN THE INSIDE OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING. THE DISTANCE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING. THE DISTANCE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING. THE DISTANCE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING.

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
07/27/2016	SV	POTABLE WATER MAIN/FORCE MAIN PRESSURE PIPE CONFLICT DETAIL	GS	1.1	1 of 1

NOTES:
1. THE TRENCH SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
06/17/2016	SV	STANDARD STORM DRAINAGE DETAIL INFILTRATION TRENCH (FRENCH DRAIN)	GS	1.1	1 of 1

LOCATION OF PUBLIC WATER SYSTEM MAINS ACCORDANCE WITH F.A.C. RULE 62-558.314 (FULL LENGTH OF PIPE COORDINATES)

NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA WATER AND SEWER SERVICE BOARD AND SHALL COMPLY WITH ALL LOCAL ORDINANCES AND REGULATIONS APPLICABLE TO THE PROJECT.

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
06/17/2017	SV	POTABLE WATER MAIN, WATER AND SEWER CONFLICT	GS	1.5	1 of 2

NOTES:
1. STORM SEWER, COUNTRY INTERSECTIONS AND RECLAIMED WATER MAIN CROSSING UNDER POTABLE WATER MAIN SHALL BE USED TO PROVIDE A MINIMUM VERTICAL DISTANCE OF THREE (3) FEET BETWEEN THE INSIDE OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE DISTANCE BETWEEN THE INSIDE OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING. THE DISTANCE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING. THE DISTANCE SHALL BE MAINTAINED THROUGHOUT THE LENGTH OF THE CROSSING.

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
06/17/2017	SV	WATER AND SEWER MAINS CROSSING	GS	1.5	2 of 2

GENERAL NOTES FOR PIPE CULVERTS

PERFORMANCES 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.

PIPE DIAMETER (Outside)	OUTER SHELL		NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE (NO. OF PERFORATIONS)
	NO. OF 1/2" DIA. HOLES PER LINEAR FOOT OF PIPE (NO. OF PERFORATIONS)	DIAMETER (INCHES)	
10	100	3/8	100
15	120	3/8	120
24	140	3/8	140
30	200	3/8	200
36	240	3/8	240
42	275	1/2	275
48	315	1/2	315
54	360	1/2	360
60	385	1/2	385
72	450	1/2	450
84	500	1/2	500

DATE	APPROVED BY	STANDARD DETAIL	ITEM	CROSS REF.	SHEET
06/16/2015	SV	STANDARD STORM DRAINAGE DETAIL INFILTRATION TRENCH (PIPE CULVERT NOTES)	SD	1.1	1 of 1

File Name: P:\Projects\2021\11026 Palmetto Bay - Professional Consulting Services\1143261 Palmetto Bay Drainage S&I\143261-CD-01.dwg - (Revised By: Sebastian Soto on Thursday, May 11, 2023 10:50:30 AM)

**STANDARD STORM DRAINAGE DETAIL
PRECAST CATCH BASIN
(TYPE D-3)**

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL PRECAST CATCH BASIN (TYPE D-3)	SD 2.2
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SQUARE STRUCTURE

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.2	3	3	0.0 - 5.0	6	#4@10" W	8	#4@5" E.W.	8	#4@10" E.W.
2.2	3	3	5.1 - 10.0	6	#4@10" W	8	#4@5" E.W.	8	#4@10" E.W.
2.2	3	3	10.1 - 15.0	6	#4@10" W	8	#4@5" E.W.	8	#4@10" E.W.

ROUND STRUCTURE

Standard Detail	Dia (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.2	3	0.0 - 5.0	6	#4@10" W	8	#4@5" E.W.	8	#4@10" E.W.
2.2	3	5.1 - 15.0	6	#4@10" W	8	#4@5" E.W.	8	#4@10" E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL PRECAST CATH BASIN (TYPE D-3)	SD 2.2
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**STANDARD STORM DRAINAGE DETAIL
MANHOLE AND INLET
(TYPE P)**

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7
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SQUARE STRUCTURE

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	3.5	0.0 - 5.0	6.0	#4@10" W #4@10" E.W.	8.0	#4@5" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	5.1 - 10.0	6.0	#4@10" W #4@10" E.W.	8.0	#4@5" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	10.1 - 15.0	6.0	#4@10" W #4@10" E.W.	8.0	#4@5" E.W.	8.0	#4@10" E.W.

ROUND STRUCTURE

Standard Detail	Dia (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	4.0	0.0 - 5.0	6.0	8.0	#4@5" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	5.1 - 10.0	6.0	8.0	#4@5" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	10.1 - 15.0	6.0	8.0	#4@5" E.W.	8.0	#4@10" E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7
--	----------	---------	---	-----------

**STANDARD STORM DRAINAGE DETAIL
SWALE INLET
(TYPE D-1)**

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL SWALE INLET (TYPE D-1)	SD 3.1
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RECTANGULAR BOX

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Opening
3.1	1.42	2.25	0 - 5.0	6"	#4@10" W #4@10" E.W.	N/A	N/A	6"	#4@10" E.W.	6"
3.1	1.42	2.25	5.1 - 10.0	6"	#4@10" W #4@10" E.W.	N/A	N/A	6"	#4@10" E.W.	N/A
3.1	1.42	2.25	10.1 - 15.0	6"	#4@10" W #4@10" E.W.	N/A	N/A	8"	#4@10" E.W.	N/A

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL SWALE INLET (TYPE D-1)	SD 3.1
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**STANDARD STORM DRAINAGE DETAIL
LEVELING COURSE**

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL LEVELING COURSE	SD 4.5
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*DENOTES CHANGES BY THE EOR TO COUNTY DETAIL

PERMIT SET
ELEVATIONS ARE IN NGVD 29

Colvin, Gloriana B. Associates, Inc.
A NATIONAL CONSULTANT GROUP
3000 N.W. 12th Ave., Suite 100, Ft. Lauderdale, FL 33304
Phone: 561.372.4141 Fax: 561.372.4142

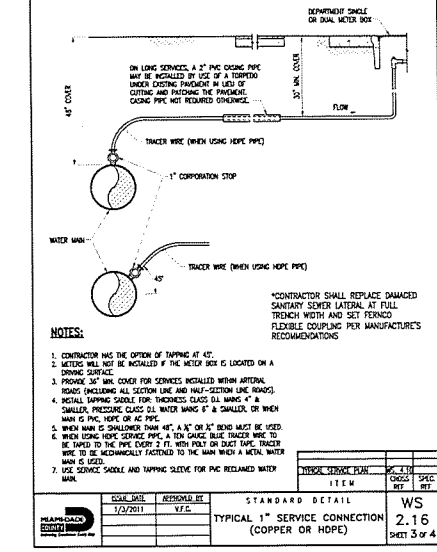
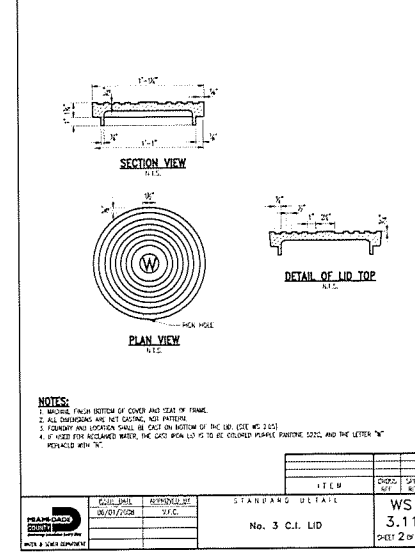
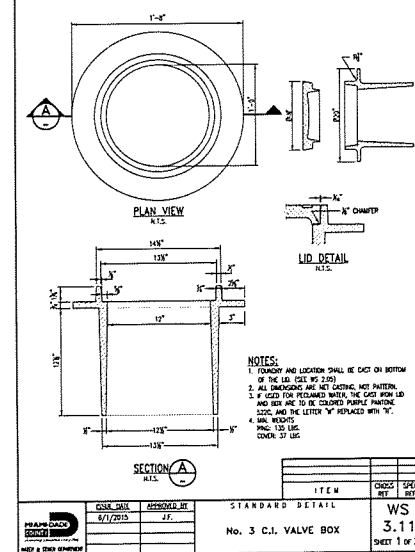
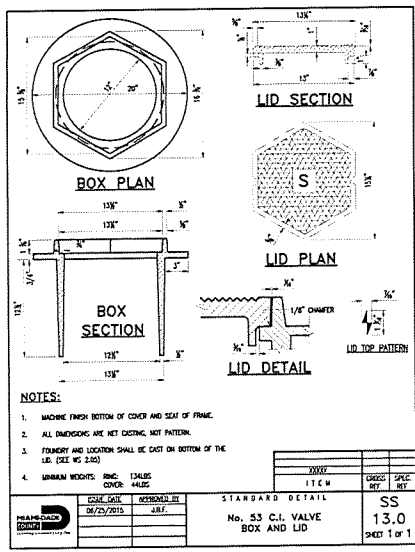
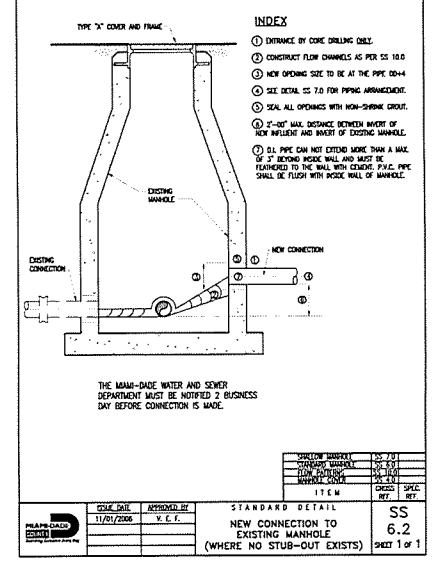
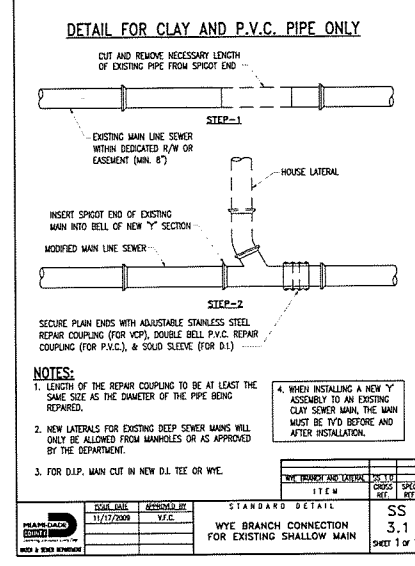
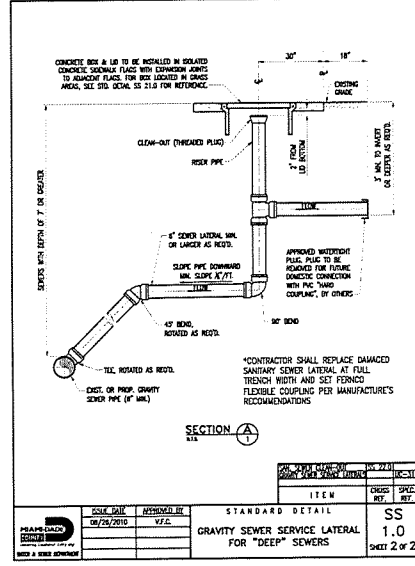
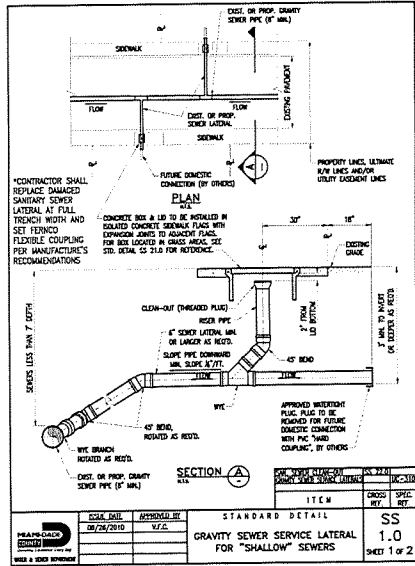
PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
VILLAGE OF PALMETTO BAY

DETAILS

SCALE: AS SHOWN
PROJECT NO: 21-14326.1
DATE: 04-24-2023

SHEET 1 OF 5
G4

File Name: P:\Projects\2011\131026 Palmetto Bay - Professional Consulting Services\131026 Palmetto Bay Sub-Basin 57/96 Improvements\0500 Plan\Drawings\131026-1-C-001.dwg ... (Plotter by: Education Set on Thursday, May 11, 2012 2:12:42 PM)



PERMIT SET
ELEVATIONS ARE IN NGVD 29

DATE	SCALE	SHEET
04-24-2003	AS SHOWN	G5
PROJECT NO.	21-4326.1	

Palmetto Bay Sub-Basin 57/96 Improvements Village of Palmetto Bay

Palmetto Bay Water & Sewer Department

Palmetto Bay Sanitation District

Palmetto Bay Water & Sewer Department

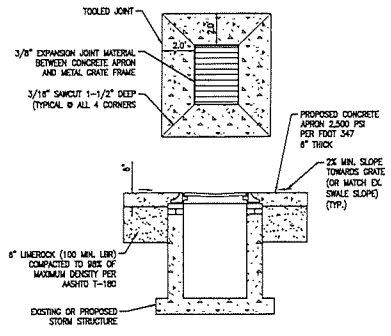
Palmetto Bay Sanitation District

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS VILLAGE OF PALMETTO BAY

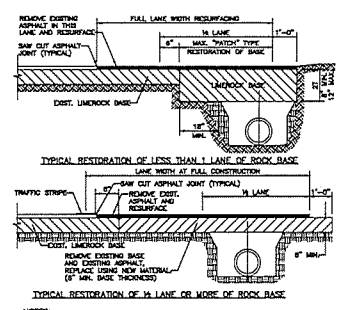
DETAILS

G5

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CONCRETE APRON
SCALE: N.T.S. CURRENT

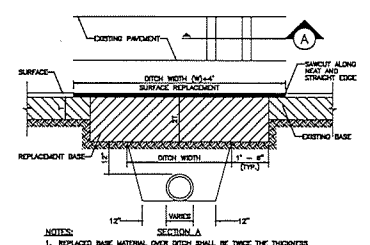


TYPICAL RESTORATION OF LESS THAN 1 LANE ON ROCK BASE

NOTES:

1. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (SEE FOR LOCAL STREETS).
2. BASE SHALL BE PLACED IN 6" MAXIMUM THICK LAYERS WITH EACH LAYER COMPACTED TO BASE DENSITY PER AASHTO T-199 AND TESTED PRIOR TO PLACEMENT OF SUCCEEDING LAYERS.
3. SURFACING MATERIAL SHALL BE GRANULAR AND ANGULAR AND SHALL HAVE A MINIMUM LBR OF 40 AND COMPACTED TO BASE DENSITY PER AASHTO T-199.
4. SANDFILL SHALL BE PLACED AND COMPACTED IN 12" LAYERS; TESTING WILL BE REQUIRED TO ACHIEVE THE REQUIRED DENSITY.
5. ALL EDGES OF EXISTING ASPHALT PAVEMENT WHERE RESTORATION WILL OCCUR SHALL BE SMOOTH IN STRAIGHT LINES PARALLEL TO OR PERPENDICULAR TO THE ROADWAY, PRIOR TO RESTORATION.
6. RESTORING MATERIAL SHALL BE CONSISTENT WITH EXISTING SURFACE, AND SHALL BE APPLIED A MINIMUM OF ONE INCH AND A MAXIMUM OF TWO INCHES IN THICKNESS.

PAVEMENT RESTORATION LONGITUDINAL

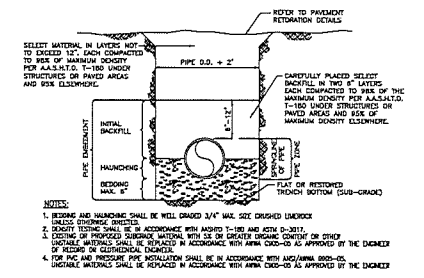


TYPICAL RESTORATION OF LESS THAN 1 LANE ON ASPHALT BASE

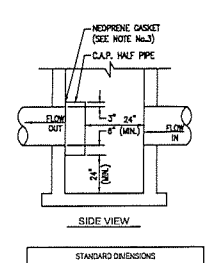
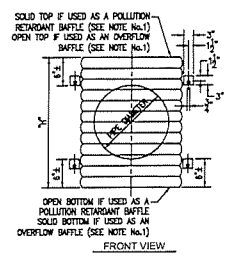
NOTES:

1. REPLACED BASE MATERIAL OVER EACH SIDE SHALL BE TWICE THE THICKNESS OF THE ORIGINAL BASE MATERIAL, 6" MAXIMUM 18".
2. BASE MATERIAL SHALL BE PLACED IN 6" MAXIMUM (GRADE MEASUREMENT) LAYERS AND EACH LAYER THOROUGHLY ROLLED OR COMPACTED TO BASE OF MAXIMUM DENSITY, PER ASTM T-199.
3. ASPHALT CONCRETE PAVEMENT JOINTS SHALL BE MECHANICALLY SHAVED.
4. SURFACING TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
5. SURFACING MATERIAL WILL BE CONSISTENT WITH THE EXISTING SURFACE.
6. BASE MATERIAL SHALL HAVE A MINIMUM LBR OF 100 AND A MINIMUM CARBONATE CONTENT OF 70% (SEE FOR LOCAL STREETS).
7. IF THE DITCH IS FILLED TEMPORARILY IT SHALL BE COVERED WITH A 2" ASPHALT CONCRETE PATCH TO KEEP THE FILL MATERIAL FROM WASHING UNTIL PLACED WITH A PERMANENT PATCH.

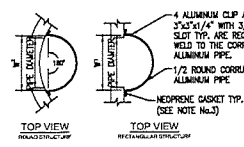
PAVEMENT RESTORATION PERPENDICULAR UTILITY INSTALLATION



TYPICAL TRENCH DETAIL

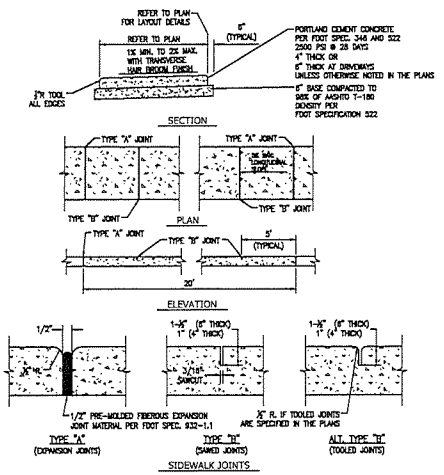


PIPE DIA. (INCHES)	W (INCHES)	H (INCHES)
12"	12"	18"
15"	21"	21"
18"	24"	24"
21"	30"	30"
24"	36"	36"
30"	42"	42"
36"	48"	48"
42"	54"	54"
48"	60"	60"
54"	66"	66"



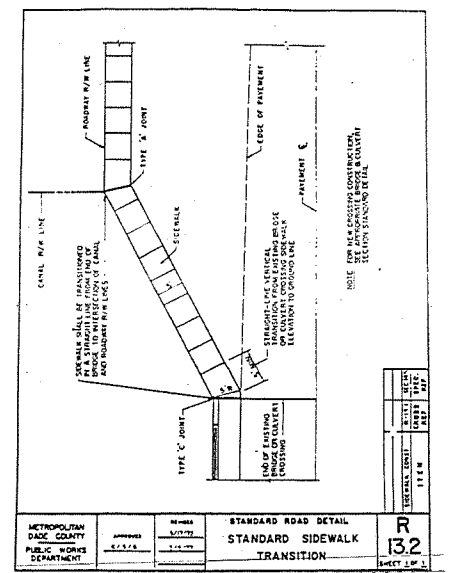
- NOTES:**
1. ALUMINUM SHEET OF SAME THICKNESS (GUAGE) AS PIPE SHALL BE WELDED TO CLIP ENDINGS.
 2. BAFFLE SHALL BE AS MANUFACTURED BY SOUTHERN CLIPVORT OR ENGINEER'S APPROVED EQUAL.
 3. NEOSPORIC CASSETT (2 3/8" x 2 3/8") SHALL BE INSTALLED AT ALL BAFFLES.
 4. BAFFLE TO BE MANUFACTURED AS ONE SOLID PRICE.

POLLUTION RETARDANT BAFFLE (PRB)
SCALE: N.T.S. CURRENT

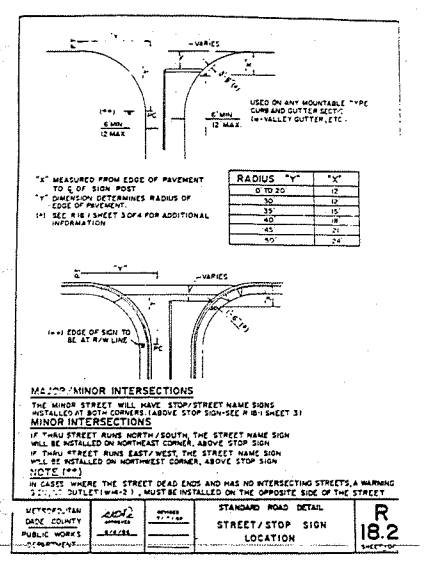


TYPE	LOCATION
"A"	20'-0" CENTER TO CENTER P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS WHERE SIDEWALK WILL BE CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES OR AT THE DISCRETION OF THE DESIGNER.
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS THROUGHOUT THE SITE.

CONCRETE SIDEWALK JOINTS
SCALE: N.T.S. CURRENT

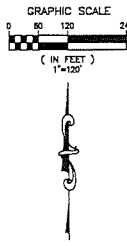
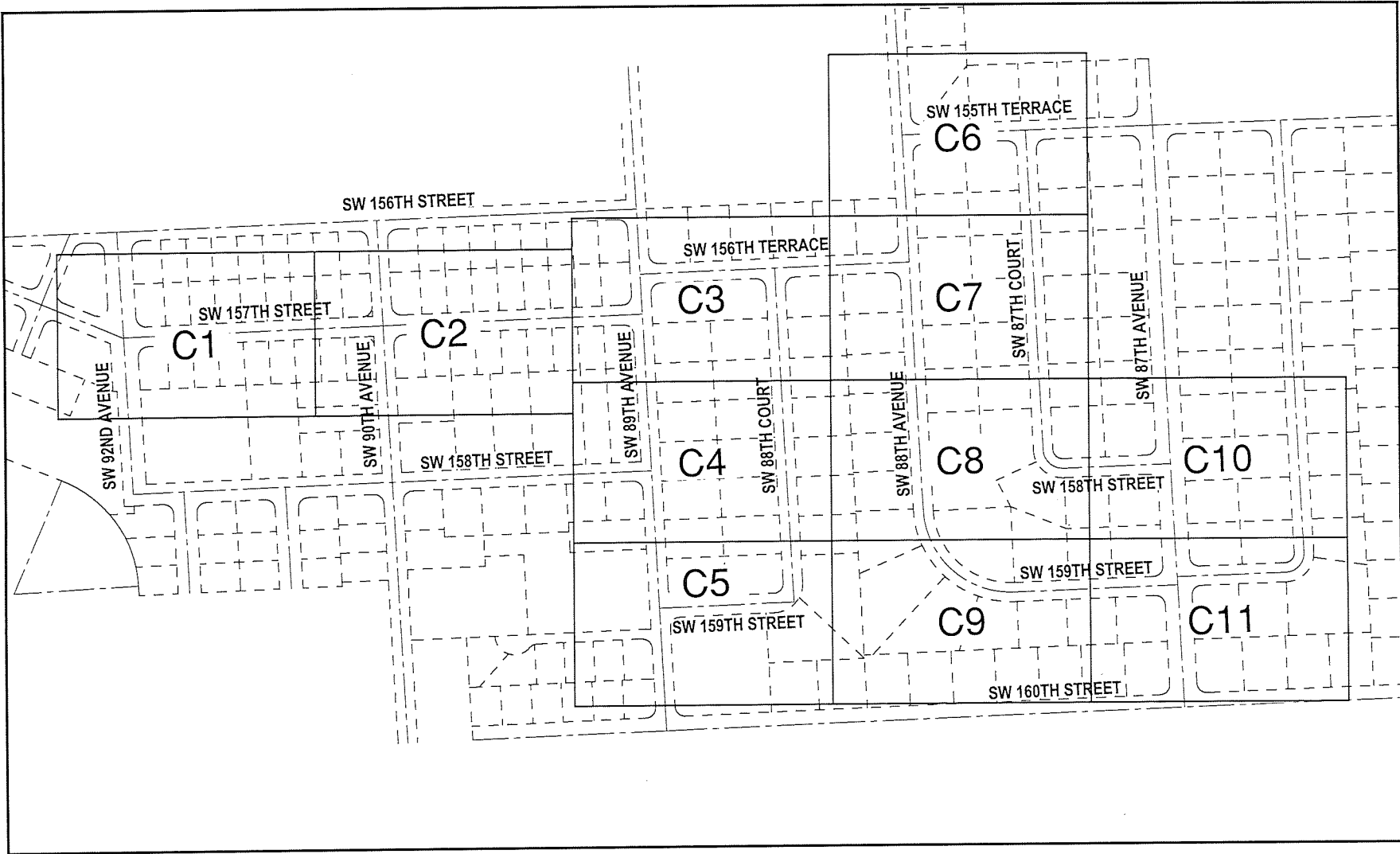


STANDARD ROAD DETAIL
STANDARD SIDEWALK TRANSITION
R 13.2
SHEET 13.2

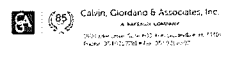


MINOR INTERSECTIONS
STANDARD ROAD DETAIL
STREET / STOP SIGN LOCATION
R 18.2
SHEET 18.2

File Name: P:\Projects\2021\11026 Palmetto Bay - Professional Consulting Services\114326.1 Palmetto Bay Drainage Sub-Basin 57/96 Improvements\114326.1-C-187.dwg -- (Plotted by: Sebastian Sore on Thursday, May 11, 2023 2:19:26 PM)



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY



**PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS**
 VILLAGE OF PALMETTO BAY

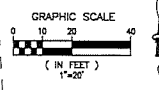
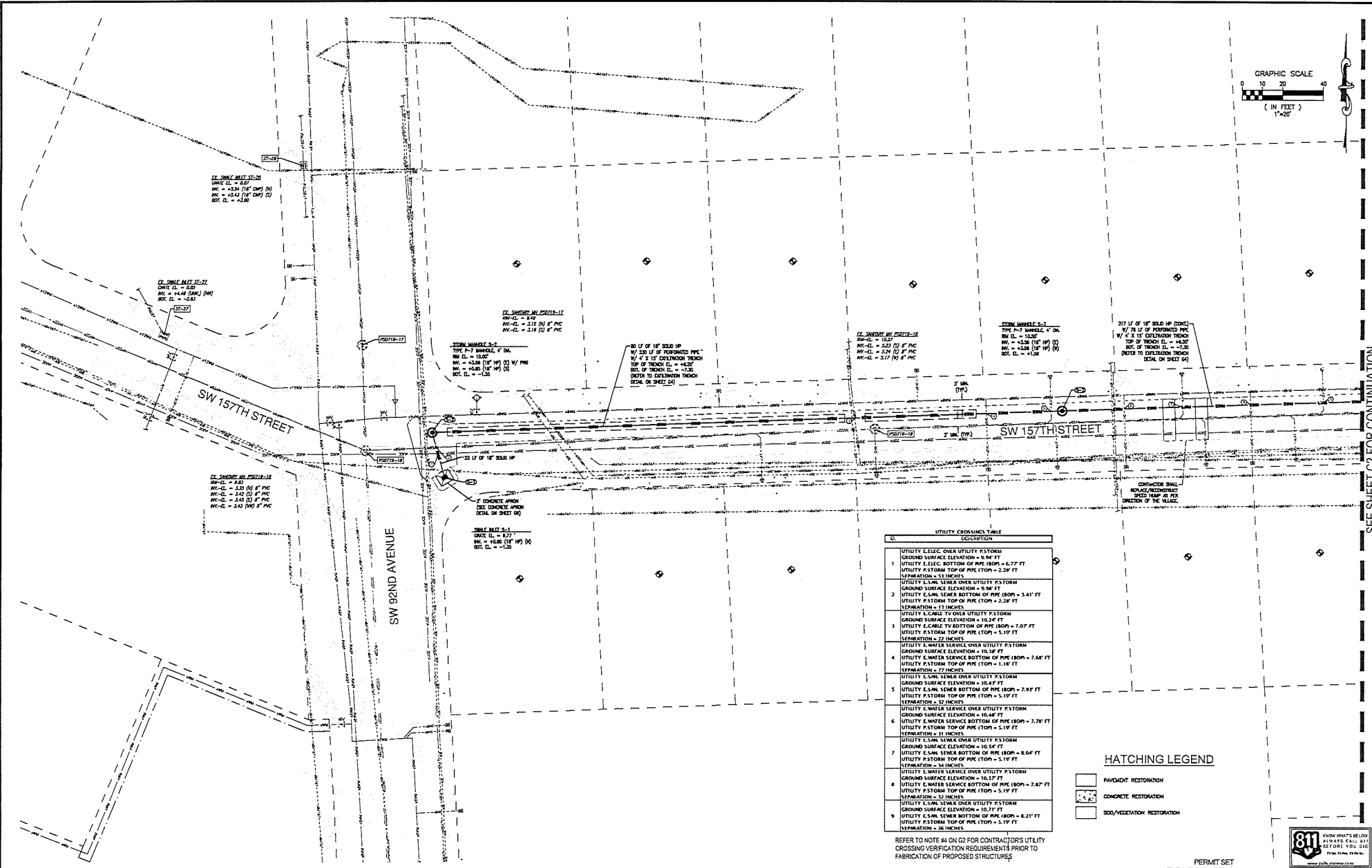
KEY MAP

PERMIT SET
 ELEVATIONS ARE IN NGVD 29
 I, JAMES D. MESSING, CIVIL ENGINEER, STATE OF FLORIDA, LICENSE NO. 12587, DO HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER IN THE STATE OF FLORIDA.
 DATE: 04-24-2023



SCALE: AS SHOWN
 PROJECT NO: 21-4326.1
 SHEET: G7

File Name: P:\Projects\2021\11326 Palmetto Bay - Palmetto Bay Sub-Basin 57/96 Improvements\030 (Plan) Drawings\11326-C-Drainage - (Revised by: Submittal) Save on Thursday, May 11, 2023 1:20:45 PM



11. SHUNT MANHOLE 11-21
DATE CL. = 8.07
RW-CL. = 45.54 (18" W) (C)
ML. = 45.43 (18" W) (C)
BOT. CL. = 43.84

12. SHUNT MANHOLE 12-22
DATE CL. = 8.08
RW-CL. = 44.44 (18" W) (C)
ML. = 44.33 (18" W) (C)
BOT. CL. = 42.84

13. SHUNT MANHOLE 13-17
DATE CL. = 8.40
RW-CL. = 47.10 (18" W) (C)
ML. = 47.00 (18" W) (C)
BOT. CL. = 45.61

STORM MANHOLE 3-7
TYPE P-7 MANHOLE, 4' DIA.
DATE CL. = 10.07
RW-CL. = 43.84 (18" W) (C) W/ PIP
ML. = 43.68 (18" W) (C)
BOT. CL. = 42.19

30' IF OF 18" SOLID HP
W/ 200 LB OF REINFORCED PIP
W/ 3' 3" OF EXPANSION TRUNK
TOP OF TRUNK CL. = 44.32
BOT. OF TRUNK CL. = 42.32
(REFER TO EXPANSION TRUNK
DETAIL ON SHEET 04)

14. SHUNT MANHOLE 14-16
DATE CL. = 10.07
RW-CL. = 43.21 (18" W) (C)
ML. = 43.10 (18" W) (C)
BOT. CL. = 41.61

STORM MANHOLE 3-7
TYPE P-7 MANHOLE, 4' DIA.
DATE CL. = 10.07
RW-CL. = 43.84 (18" W) (C)
ML. = 43.68 (18" W) (C)
BOT. CL. = 42.19

217' IF OF 18" SOLID HP (CONT.)
W/ 75 LB OF REINFORCED PIP
W/ 3' 3" OF EXPANSION TRUNK
TOP OF TRUNK CL. = 44.32
BOT. OF TRUNK CL. = 42.32
(REFER TO EXPANSION TRUNK
DETAIL ON SHEET 04)

15. SHUNT MANHOLE 15-14
DATE CL. = 8.03
RW-CL. = 44.00 (18" W) (C)
ML. = 43.89 (18" W) (C)
BOT. CL. = 42.40

SHUNT MANHOLE 3-1
DATE CL. = 10.07
RW-CL. = 45.00 (18" W) (C)
ML. = 44.89 (18" W) (C)
BOT. CL. = 43.40

ID	UTILITY CROSSINGS TABLE	DESCRIPTION
1	UTILITY ELECTRIC OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 9.94 FT UTILITY ELECTRIC BOTTOM OF PIPE (BOP) = 6.77 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 2.26 FT SEPARATION = 55 INCHES	
2	UTILITY E-5AL SEWER OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 9.94 FT UTILITY E-5AL SEWER BOTTOM OF PIPE (BOP) = 1.41 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 2.26 FT SEPARATION = 13 INCHES	
3	UTILITY E-CABLE TV OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.04 FT UTILITY E-CABLE TV BOTTOM OF PIPE (BOP) = 7.07 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 22 INCHES	
4	UTILITY E-WATER SERVICE OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.16 FT UTILITY E-WATER SERVICE BOTTOM OF PIPE (BOP) = 7.64 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 27 INCHES	
5	UTILITY E-5AL SEWER OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.47 FT UTILITY E-5AL SEWER BOTTOM OF PIPE (BOP) = 7.97 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 32 INCHES	
6	UTILITY E-WATER SERVICE OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.48 FT UTILITY E-WATER SERVICE BOTTOM OF PIPE (BOP) = 7.70 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 31 INCHES	
7	UTILITY E-5AL SEWER OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.54 FT UTILITY E-5AL SEWER BOTTOM OF PIPE (BOP) = 8.04 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 36 INCHES	
8	UTILITY E-WATER SERVICE OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.57 FT UTILITY E-WATER SERVICE BOTTOM OF PIPE (BOP) = 7.87 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 32 INCHES	
9	UTILITY E-5AL SEWER OVER UTILITY F-5 FORM GROUND SURFACE ELEVATION = 10.77 FT UTILITY E-5AL SEWER BOTTOM OF PIPE (BOP) = 8.21 FT UTILITY F-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 36 INCHES	

HATCHING LEGEND

	PAVEMENT RESTORATION
	CONCRETE RESTORATION
	SOG/VEGETATION RESTORATION

REFER TO NOTE #4 ON 02 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

PERMIT SET ELEVATIONS ARE IN NGVD 29

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

Calvin, Giordano & Associates, Inc.
10000 SW 10th St, Suite 100, Palmetto Bay, FL 33157
Phone: (305) 721-1000 Fax: (305) 721-1001

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

DATE: 04-24-2022

SCALE: AS SHOWN

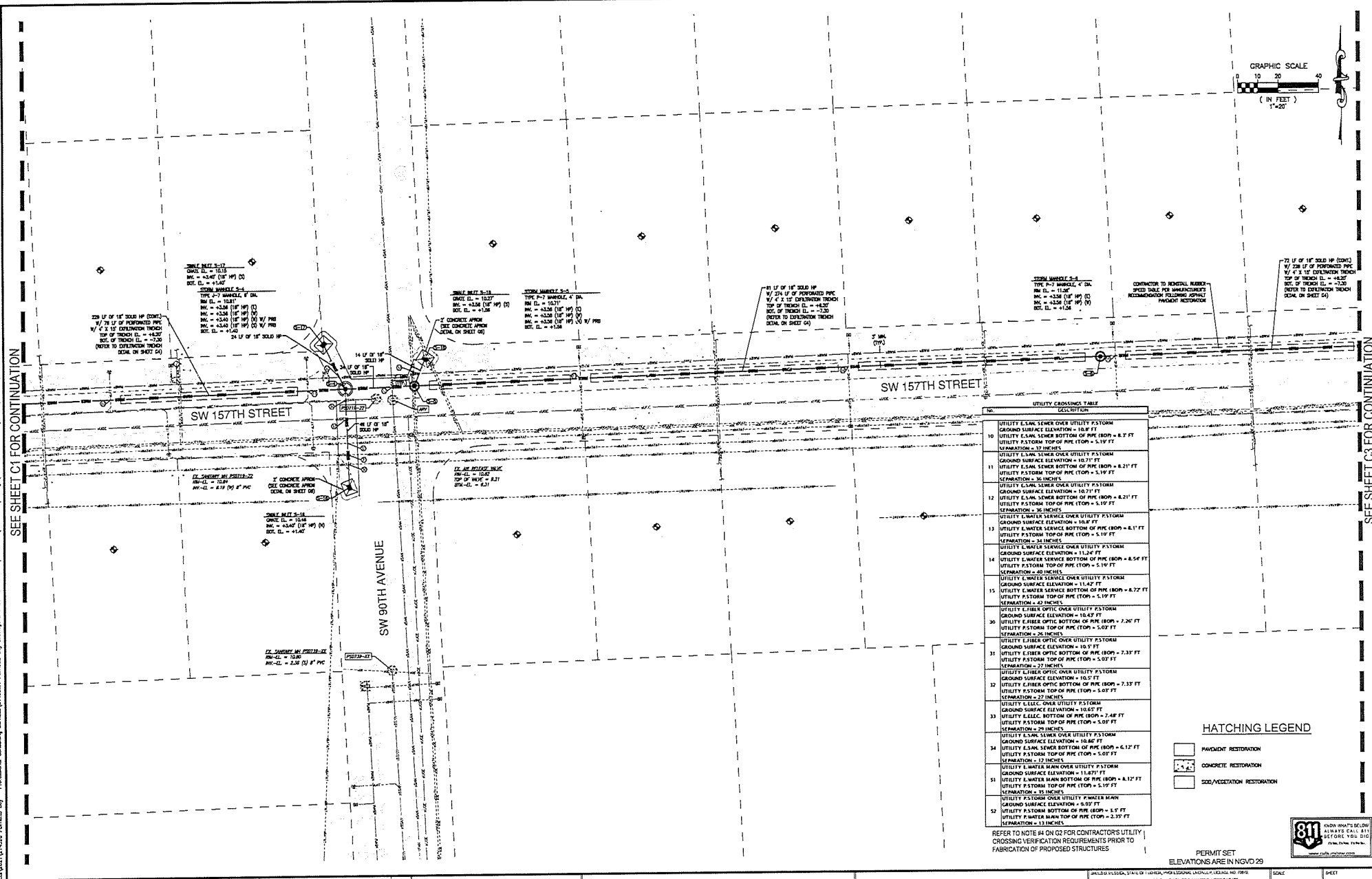
PROJECT NO: 21-4326.1

SHEET: C1



SEE SHEET 02 FOR CONTINUATION

File Name: P:\Projects\2021\11026 Palmetto Bay - Infrastructure Consulting Services\11026.1 Palmetto Bay Sub-Basin 57/96 Improvements\000 Plan\Drainage\11026.1-C-Drainage - (Revised by: Sebastian Soto on Thursday, May 11, 2023 2:22:24 PM)



SEE SHEET C1 FOR CONTINUATION

SEE SHEET C3 FOR CONTINUATION

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY

CA Calvert, Giordano & Associates, Inc.
 A National Association
 2025 PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 PROJECT NO. 21-4326.1

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

SCALE: AS SHOWN
 PROJECT NO: 21-4326.1
 DATE: 04-24-2023

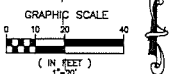
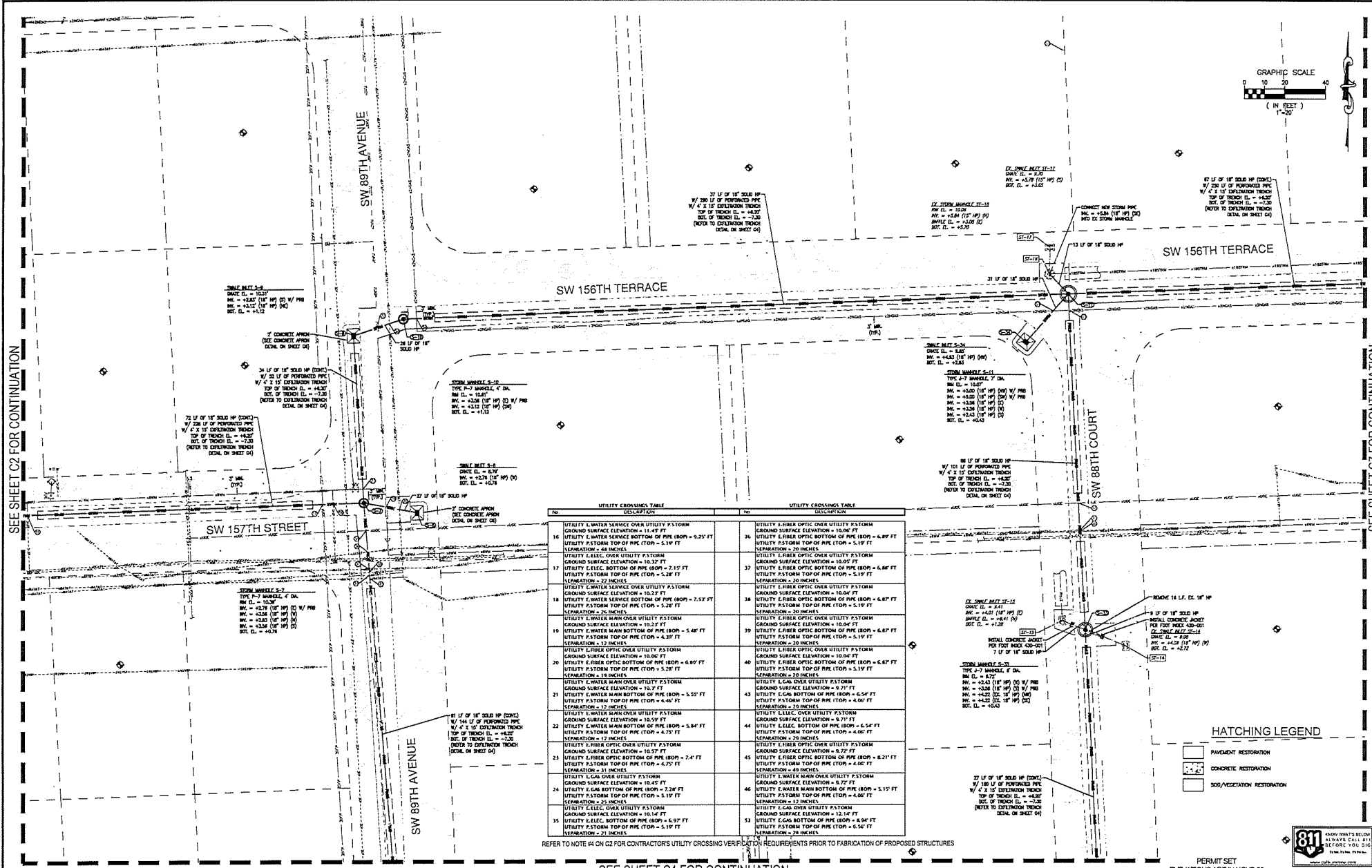
811
 ANDERSON'S SERVICE
 1111 PALMETTO BLVD
 PALMETTO BAY, FL 33157
 (305) 885-8888

PERMIT SET ELEVATIONS ARE IN NGVD 29

DATE: 04-24-2023

SCALE: AS SHOWN
 PROJECT NO: 21-4326.1

SHEET: C2



SEE SHEET C2 FOR CONTINUATION

SEE SHEET C7 FOR CONTINUATION

UTILITY CROSSING TABLE		UTILITY CROSSING TABLE	
NO.	DESCRIPTION	NO.	DESCRIPTION
16	UTILITY WATER SERVICE OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 11.47 FT UTILITY WATER SERVICE BOTTOM OF PIPE (800) = 9.25 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 48 INCHES	36	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.06 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 4.89 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 20 INCHES
17	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.37 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 2.15 FT UTILITY FSTORM TOP OF PIPE (100) = 5.28 FT SEPARATION = 22 INCHES	37	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.05 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 4.86 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 20 INCHES
18	UTILITY WATER SERVICE OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.25 FT UTILITY WATER SERVICE BOTTOM OF PIPE (800) = 7.57 FT UTILITY FSTORM TOP OF PIPE (100) = 5.28 FT SEPARATION = 76 INCHES	38	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.04 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 4.67 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 20 INCHES
19	UTILITY WATER MAIN OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.25 FT UTILITY WATER MAIN BOTTOM OF PIPE (800) = 5.46 FT UTILITY FSTORM TOP OF PIPE (100) = 4.29 FT SEPARATION = 12 INCHES	39	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.04 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 4.67 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 20 INCHES
20	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.06 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 6.89 FT UTILITY FSTORM TOP OF PIPE (100) = 5.28 FT SEPARATION = 19 INCHES	40	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.04 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 4.67 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 20 INCHES
21	UTILITY WATER MAIN OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.25 FT UTILITY WATER MAIN BOTTOM OF PIPE (800) = 4.45 FT UTILITY FSTORM TOP OF PIPE (100) = 4.45 FT SEPARATION = 12 INCHES	43	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 9.71 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 6.54 FT UTILITY FSTORM TOP OF PIPE (100) = 4.00 FT SEPARATION = 20 INCHES
22	UTILITY WATER MAIN OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.39 FT UTILITY WATER MAIN BOTTOM OF PIPE (800) = 5.84 FT UTILITY FSTORM TOP OF PIPE (100) = 4.29 FT SEPARATION = 12 INCHES	44	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 9.71 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 6.54 FT UTILITY FSTORM TOP OF PIPE (100) = 4.00 FT SEPARATION = 20 INCHES
23	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.57 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 7.47 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 31 INCHES	45	UTILITY FIBER OPTIC OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 8.72 FT UTILITY FIBER OPTIC BOTTOM OF PIPE (800) = 8.21 FT UTILITY FSTORM TOP OF PIPE (100) = 4.00 FT SEPARATION = 40 INCHES
24	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.45 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 7.28 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 23 INCHES	46	UTILITY WATER MAIN OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 8.72 FT UTILITY WATER MAIN BOTTOM OF PIPE (800) = 5.15 FT UTILITY FSTORM TOP OF PIPE (100) = 4.00 FT SEPARATION = 12 INCHES
31	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 10.14 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 6.97 FT UTILITY FSTORM TOP OF PIPE (100) = 5.19 FT SEPARATION = 21 INCHES	53	UTILITY ELEC. OVER UTILITY FSTORM GROUND SURFACE ELEVATION = 12.14 FT UTILITY ELEC. BOTTOM OF PIPE (800) = 6.94 FT UTILITY FSTORM TOP OF PIPE (100) = 6.54 FT SEPARATION = 28 INCHES

REFER TO NOTE #4 ON C2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

SEE SHEET C4 FOR CONTINUATION

HATCHING LEGEND

- PAVEMENT RESTORATION
- CONCRETE RESTORATION
- SOD/VEGETATION RESTORATION

PERMIT SET
ELEVATIONS ARE IN NGVD 29



NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY

SEE SHEET C4 FOR CONTINUATION

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

Calvin, Giordano & Associates, Inc.
A Technical Consulting Firm
11000 Palmetto Blvd., Suite 200, Palmetto Bay, FL 33157
Phone: 305.375.7525 Fax: 305.375.7526

DRAINAGE PLAN

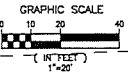
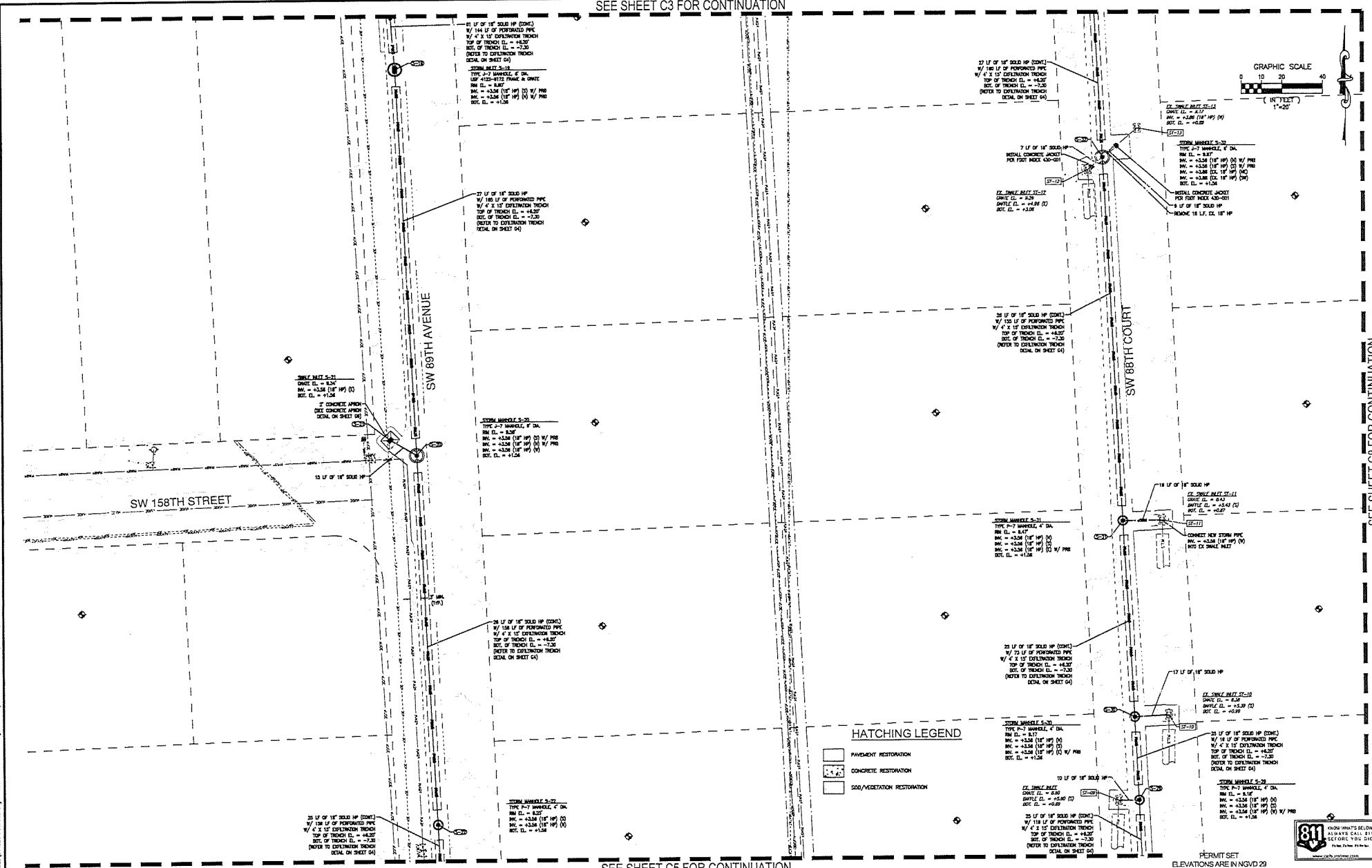
SCALE AS SHOWN
PROJECT NO. 21-4326.1
SHEET C3

DATE: 04-24-2023

File Name: P:\Projects\2011\14326 Palmetto Bay - Professional Consulting Services\143261 Palmetto Bay Drainage Sub-basin 5796 Improvements\DWG\143261-C-PLAN.dwg - (Printed by: Sebastian Sols on Thursday, May 11, 2012 12:09 PM)

SEE SHEET C3 FOR CONTINUATION

SEE SHEET C5 FOR CONTINUATION



SEE SHEET C8 FOR CONTINUATION

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

Calvert Giordano & Associates, Inc.
 A Southern Company
 15000 SW 24th St., Suite 200, Palmetto Bay, FL 33157
 Phone: 305.833.7884 Fax: 305.331.0171

PALMETTO BAY SUB-BASIN 5796 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

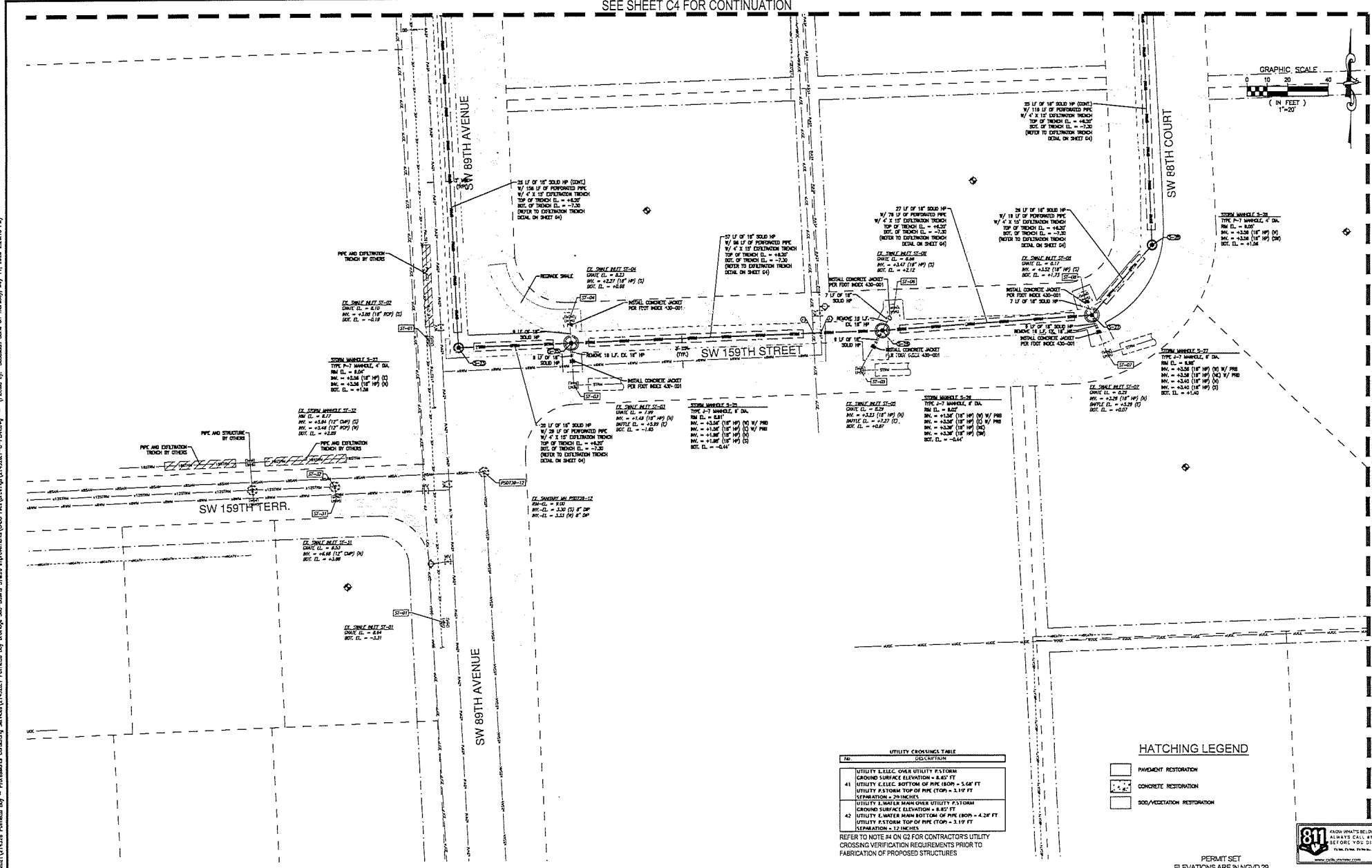
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991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

SCALE: AS SHOWN
 PROJECT NO: 21-4326.1
 DATE: 04-24-2012



SHEET C4

SEE SHEET C4 FOR CONTINUATION



UTILITY CROSSINGS TABLE

NO.	DESCRIPTION
41	UTILITY ELEC. OVER UTILITY P-5 FORM GROUND SURFACE ELEVATION = 8.02 FT UTILITY ELEC. BOTTOM OF PIPE (BOP) = 5.66 FT UTILITY P-5 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 29 INCHES
42	UTILITY E-WATER MAIN OVER UTILITY P-5 FORM GROUND SURFACE ELEVATION = 8.02 FT UTILITY E-WATER MAIN BOTTOM OF PIPE (BOP) = 4.28 FT UTILITY P-5 FORM TOP OF PIPE (TOP) = 3.19 FT SEPARATION = 12 INCHES

REFER TO NOTE #4 ON G2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

HATCHING LEGEND

	PAVEMENT RESTORATION
	CONCRETE RESTORATION
	SOIL/VEGETATION RESTORATION

SEE SHEET C9 FOR CONTINUATION

File Name: P:\Projects\2021\11038 Palmetto Bay - Professional Consulting Services\11038 Palmetto Bay - Drainage Sub-basin 57466 Improvements\G00 Plan\Drawings\11038-1-C-PLAN.dwg (Printed by: Sebastian Soto on Thursday, May 11, 2023 2:06:15 PM)

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY

PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

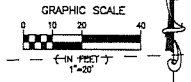
PERMIT SET
ELEVATIONS ARE IN NGVD 29

SCALE AS SHOWN
PROJECT No. 21-4326.1



SHEET C5

SEE SHEET C6 FOR CONTINUATION



NO.	DESCRIPTION
25	UTILITY CROSSING OVER UTILITY P-3 FORM GROUND SURFACE ELEVATION = 8.74 FT UTILITY CROSSING BOTTOM OF PIPE (BOP) = 6.57 FT UTILITY P-3 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 16 INCHES
26	UTILITY E-CAN OVER UTILITY P-3 FORM GROUND SURFACE ELEVATION = 8.77 FT UTILITY E-CAN BOTTOM OF PIPE (BOP) = 6.57 FT UTILITY P-3 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 16 INCHES
27	UTILITY CROSSING OVER UTILITY P-3 FORM GROUND SURFACE ELEVATION = 8.66 FT UTILITY CROSSING BOTTOM OF PIPE (BOP) = 6.49 FT UTILITY P-3 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 15 INCHES
47	UTILITY E-CAN OVER UTILITY P-3 FORM GROUND SURFACE ELEVATION = 8.66 FT UTILITY E-CAN BOTTOM OF PIPE (BOP) = 6.49 FT UTILITY P-3 FORM TOP OF PIPE (TOP) = 5.19 FT SEPARATION = 17 INCHES

REFER TO NOTE #4 ON C2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

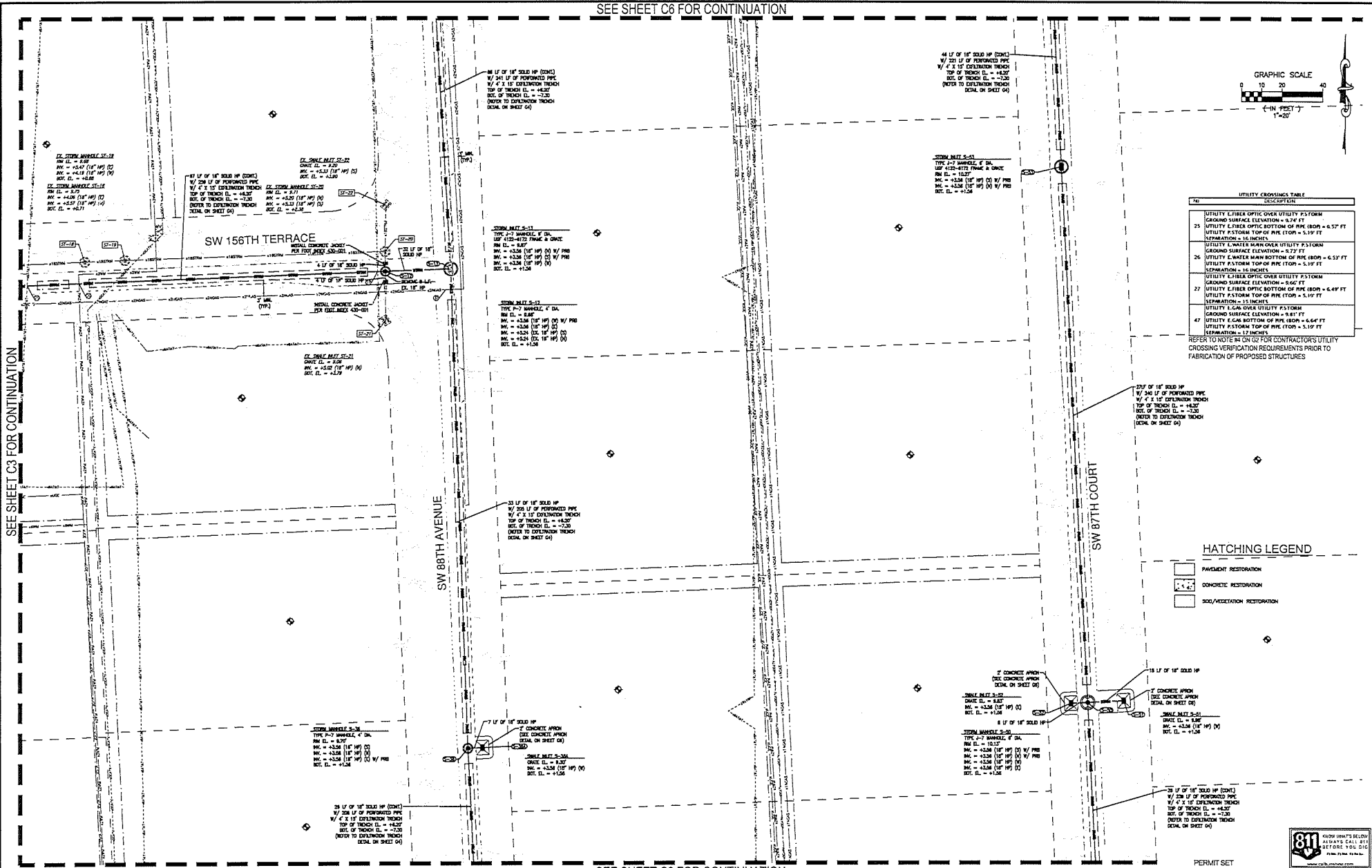
HATCHING LEGEND

- PAVEMENT RESTORATION
- CONCRETE RESTORATION
- SOIL/EXCAVATION RESTORATION

PERMIT SET ELEVATIONS ARE IN NGVD 29



SEE SHEET C8 FOR CONTINUATION



SEE SHEET C3 FOR CONTINUATION

File Name: P:\Projects\2021\14326\14326 - Palmetto Bay - Professional Consulting Services\14326 - C-PLAN.dwg - (Printed by: Salvatore, Sold on Thursday, May 11, 2024 2:28:47 PM)

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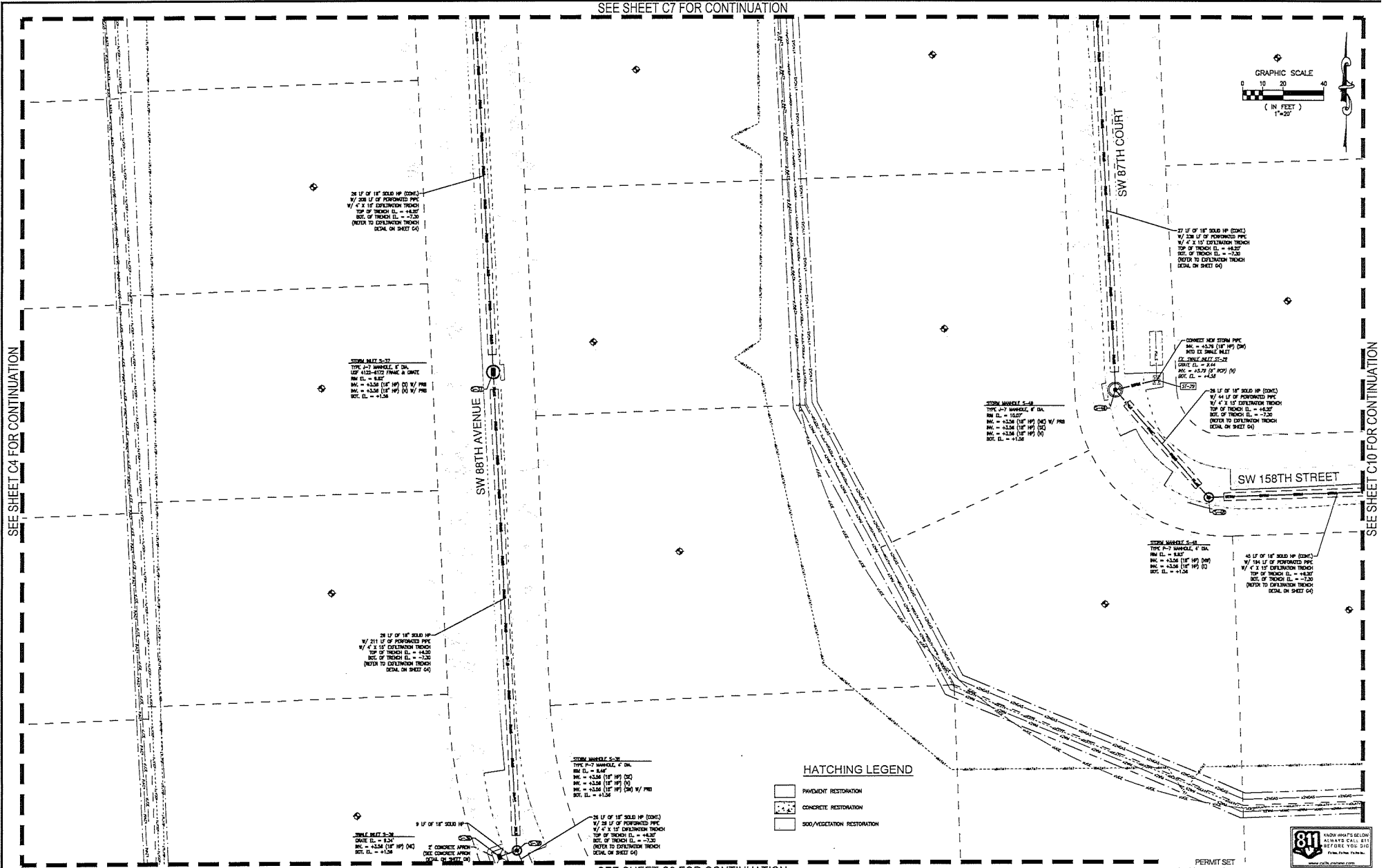
Calvin, Giordano & Associates, Inc.
12500 South Dixie Highway, Suite 100, Palmetto Bay, FL 33157
Phone: (305) 875-1100

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

SCALE: AS SHOWN
PROJECT NO: 21-4326.1

SHEET: C7



SEE SHEET C4 FOR CONTINUATION

SEE SHEET C7 FOR CONTINUATION

SEE SHEET C10 FOR CONTINUATION

SEE SHEET C9 FOR CONTINUATION

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY

Calvin Glondara & Associates, Inc.
 A PROFESSIONAL CORPORATION
 2525 NE 13th Street, Suite 100, Fort Lauderdale, FL 33304
 Phone: 305.575.9222 Fax: 305.575.9127

**PALMETTO BAY SUB-BASIN 57/96
 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY**

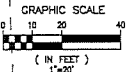
DRAINAGE PLAN

PERMIT SET
 ELEVATIONS ARE IN NGVD 29

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SCALE: AS SHOWN
 SHEET: 21-4326.1
 DATE: 04-24-2022

SEE SHEET C8 FOR CONTINUATION



STORM MANHOLE S-10
TYPE P-7 MANHOLE, 4' DIA.
INV. EL. = 8.07
INC. = 43.54 (1" HP) (2)
BOL. EL. = 42.54 (1" HP) (2)
BOL. EL. = 41.54

STORM MANHOLE S-11
TYPE P-7 MANHOLE, 4' DIA.
INV. EL. = 8.07
INC. = 43.54 (1" HP) (2)
BOL. EL. = 42.54 (1" HP) (2)
BOL. EL. = 41.54

STORM MANHOLE S-12
TYPE J SLOTTED, 4' DIA.
TOP 42" x 42" FRAME & CHUTE
CHUTE EL. = 8.17
INC. = 43.56 (1" HP) (2) W/ P/B
BOL. EL. = 42.56 (1" HP) (2) W/ P/B
BOL. EL. = 41.56

26 LF OF 18" SOLID HP (20K4)
W/ 18" LF OF PERFORATED PIPE
W/ 4' X 10' EXPLORATION TRENCH
TOP OF TRENCH EL. = 44.57
BOL. OF TRENCH EL. = 7.30
ENTER TO EXPLORATION TRENCH
DETAIL ON SHEET C4

26 LF OF 18" SOLID HP
W/ 18" LF OF PERFORATED PIPE
W/ 4' X 10' EXPLORATION TRENCH
TOP OF TRENCH EL. = 44.57
BOL. OF TRENCH EL. = 7.30
ENTER TO EXPLORATION TRENCH
DETAIL ON SHEET C4

26 LF OF 18" SOLID HP
W/ 18" LF OF PERFORATED PIPE
W/ 4' X 10' EXPLORATION TRENCH
TOP OF TRENCH EL. = 44.57
BOL. OF TRENCH EL. = 7.30
ENTER TO EXPLORATION TRENCH
DETAIL ON SHEET C4

26 LF OF 18" SOLID HP (20K4)
W/ 18" LF OF PERFORATED PIPE
W/ 4' X 10' EXPLORATION TRENCH
TOP OF TRENCH EL. = 44.57
BOL. OF TRENCH EL. = 7.30
ENTER TO EXPLORATION TRENCH
DETAIL ON SHEET C4

SW 88TH AVENUE

SW 159TH STREET

SEE SHEET C5 FOR CONTINUATION

SEE SHEET C11 FOR CONTINUATION

HATCHING LEGEND

- PAVEMENT RESTORATION
- CONCRETE RESTORATION
- SOD/VEGETATION RESTORATION

PERMIT SET
ELEVATIONS ARE IN NSVD 29



NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

Calvin Giordano & Associates, Inc.
 A Member Company
 REGISTERED PROFESSIONAL ENGINEERS AND ARCHITECTS
 STATE OF CALIFORNIA

PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
VILLAGE OF PALMETTO BAY

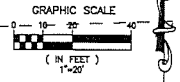
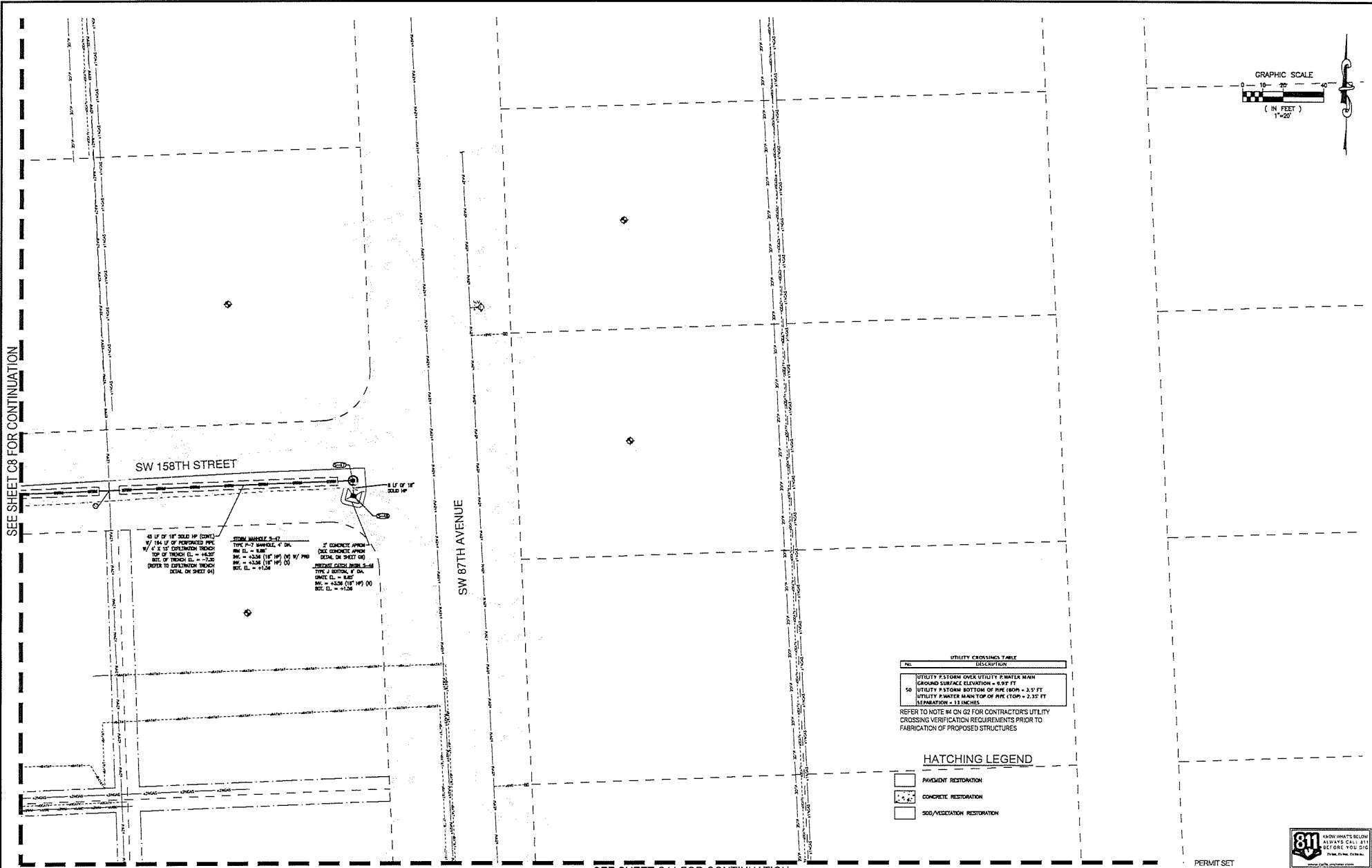
DRAINAGE PLAN

SHEET 5 OF 5
 THIS PERMITS SET IS VALID FOR 180 DAYS FROM THE DATE OF ISSUANCE.
 THE PERMITS SET HAS BEEN REVIEWED AND SEALED BY JAMES D. MEISNER, DATE 04-24-2023.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SEALED AND THE SIGNATURE MUST BE VERIFIED IN ANY ELECTRONIC COPIES.
 DATE: 04-24-2023

SCALE	SHEET
AS SHOWN	C9
PROJECT NO.	
2144328.1	

Palmetto Bay - Professional Consulting Services\314328.1-Palmetto Bay - Permitted by Sub-basin 57/96 Improvements\0403 Palmetto Bay\314328.1-C-PLAN.dwg - (Printed by: Sub-basin 57/96 Improvements) on Thursday, May 11, 2023 2:31:18 PM

The Home Depot (2021) (14328 Palmetto Bay - Professional Consulting Services) (143281 Palmetto Bay Detention Sub-Basin 57/96 Improvements) (000 Plan/Drawings) (143281-C-PA0404 - (Revised by: Submittal Set) on Thursday, May 11, 2023 13:33:23 PM)



SEE SHEET C8 FOR CONTINUATION

SEE SHEET C11 FOR CONTINUATION

NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY

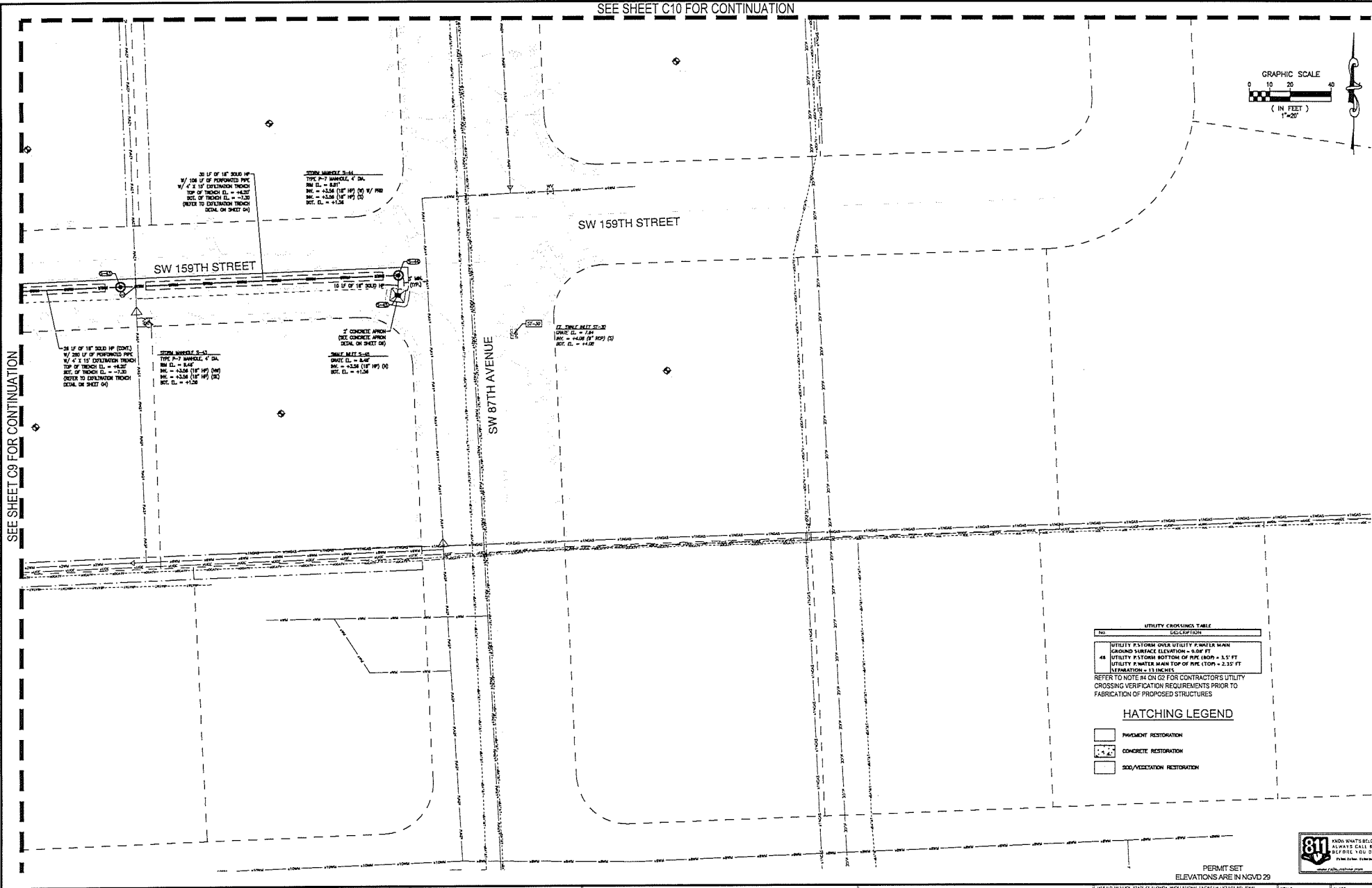
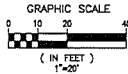
Calvin, Giordano & Associates, Inc.
 10200 SW 15th Street, Suite 100, Palmetto Bay, FL 33157
 Phone: 305.425.7800 Fax: 305.425.4107

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

DRAINAGE PLAN	PERMIT SET ELEVATIONS ARE IN NGVD 29	
SCALE: AS SHOWN PROJECT NO: 21-4326.1	SHEET: C10	DATE: 04-24-2023

File Name: P:\Projects\2021\21-4326 Palmetto Bay - Professional Consulting Services\21-4326-1-C-Plan.dwg - Plotted by: Substation, Date on Thursday, May 11, 2023 3:33:50 PM

SEE SHEET C10 FOR CONTINUATION



UTILITY CROSSING TABLE

No.	DESCRIPTION
48	UTILITY #1 STORM OVER UTILITY #1 WATER MAIN GROUND SURFACE ELEVATION = 9.08 FT UTILITY #1 STORM BOTTOM OF PIPE (BOP) = 5.5' FT UTILITY #1 WATER MAIN TOP OF PIPE (TOP) = 2.55' FT SEPARATION = 1.5 FEET

REFER TO NOTE #4 ON G2 FOR CONTRACTOR'S UTILITY CROSSING VERIFICATION REQUIREMENTS PRIOR TO FABRICATION OF PROPOSED STRUCTURES

HATCHING LEGEND

	PAVEMENT RESTORATION
	CONCRETE RESTORATION
	SOD/VEGETATION RESTORATION

NO.	DATE	BY	NO.	DATE	BY

CA Cabini, Giordano & Associates, Inc.
 6000 W. UNIVERSITY BLVD., SUITE 200
 PALMETTO BAY, FL 33150
 PHONE: (305) 244-1100 FAX: (305) 244-1101

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

DRAINAGE PLAN

PERMIT SET
ELEVATIONS ARE IN NGVD 29

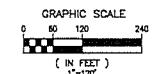
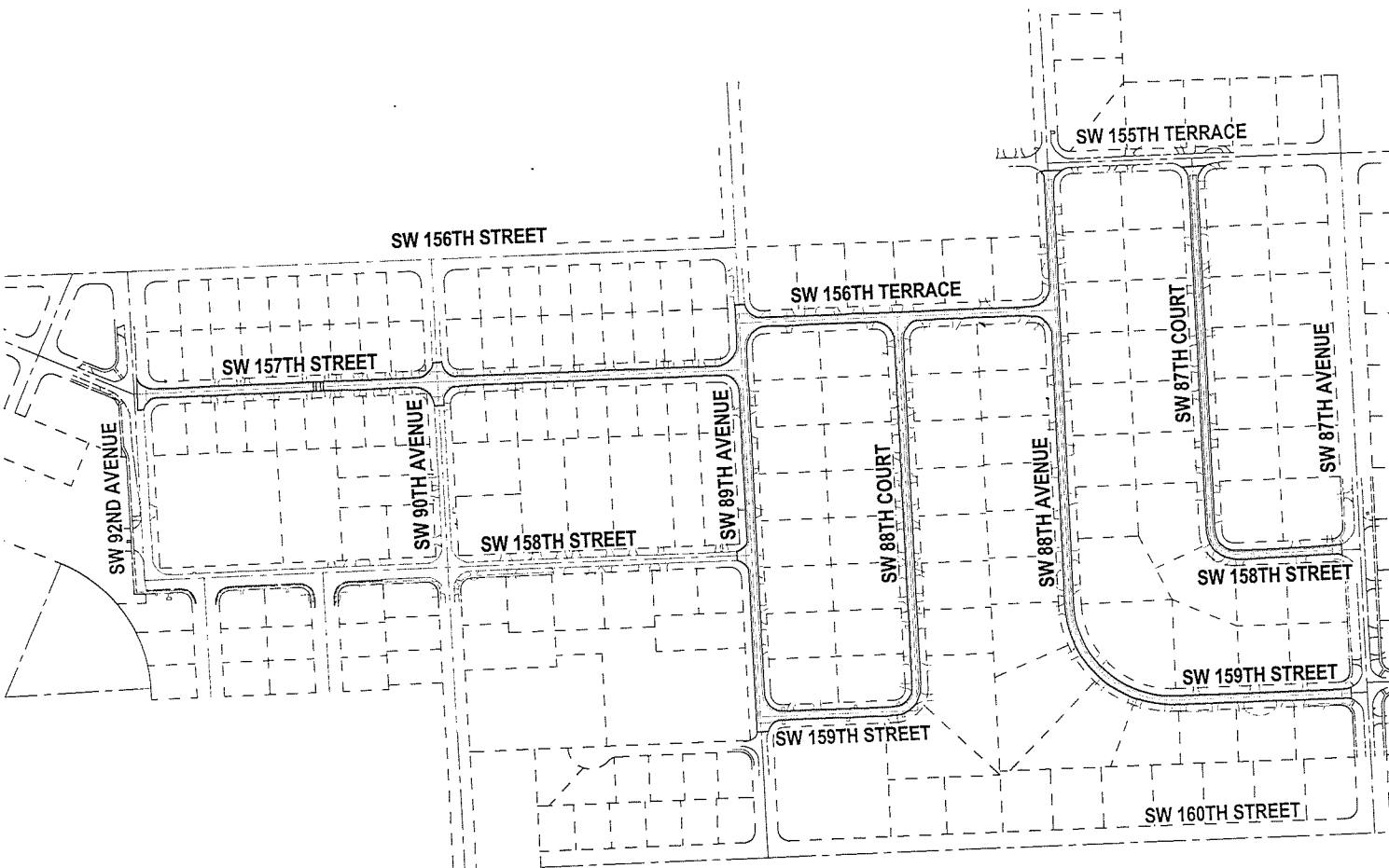
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 SHEET: 21-4326.1

DATE: 04-24-2023

PROJECT NO: 21-4326.1

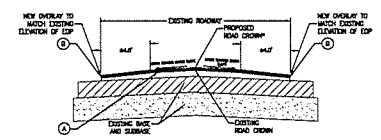
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C11



LEGEND

- ASPHALT PAVEMENT OVERLAY
- ASPHALT PAVEMENT OVERLAY (CALLED TRANSITION)

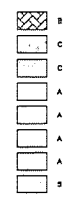


- ① 1.5" ASPHALT CONCRETE TYPE 3P-4.5 (TYP. 140) OVER BITUMINOUS TACK COAT (SPREAD RATE BETWEEN 0.25 AND 0.40 GAL/SY)
- ② 4.5" ASPHALT CONCRETE (SPONSOR TO 1.5" DEEP X 4.5 FT WIDE)
- ③ NEW OVERLAY TO MATCH EXISTING ELEVATION OF EXISTING ROAD CROWN BY MEANS EXISTING SPINNA CONNECTED TO LAYERS OF OVERLAY IN RUNNING TRANSITION (1.5" DEEP X 2.0 FT LONG)

TYPICAL PAVEMENT OVERLAY DETAIL
N.T.S.

NOTES:

1. ALL EXISTING UTILITIES (BY CONCRETE, ELECTRICAL, IRON, STEEL, WASTE, BRICKS, METAL, BRICKS, DRAINAGE STRUCTURES, ETC.) WITH PROPOSED AREAS OF IMPROVEMENTS SHALL BE REVEALED TO NEW GRADE ELEVATION, UNLESS OTHERWISE NOTED.
2. PAVEMENT OVERLAY FOR DETAIL SHALL NOT TAKE PLACE UNTIL PAVEMENT RESTORATION FOR DETAIL ON SHEET OR - DETAILS TWO BODY COMPLETED AND ACCEPTED BY VILLAGE.
3. SIGNIFICANT WASTEWATER QUANTITIES SHOWN ON PLAN EXCLUDE BRICK PAVEMENT AND TURF BLOCK RESTORATION AREAS.



PERMIT SET
ELEVATIONS ARE IN NGVD 29

REVISION	BY	NO	DATE	REVISION	BY

Calver, Giordano & Associates, Inc.
A LIMITED LIABILITY COMPANY
REGISTERED PROFESSIONAL ENGINEER - LICENSE NO. 15150
PHONE: (754) 351-7541 FAX: (754) 351-7542

**PALMETTO BAY SUB-BASIN 57/96
IMPROVEMENTS
VILLAGE OF PALMETTO BAY**

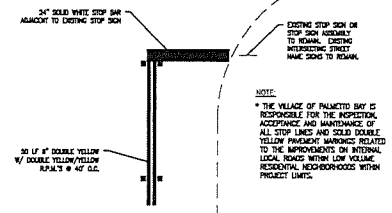
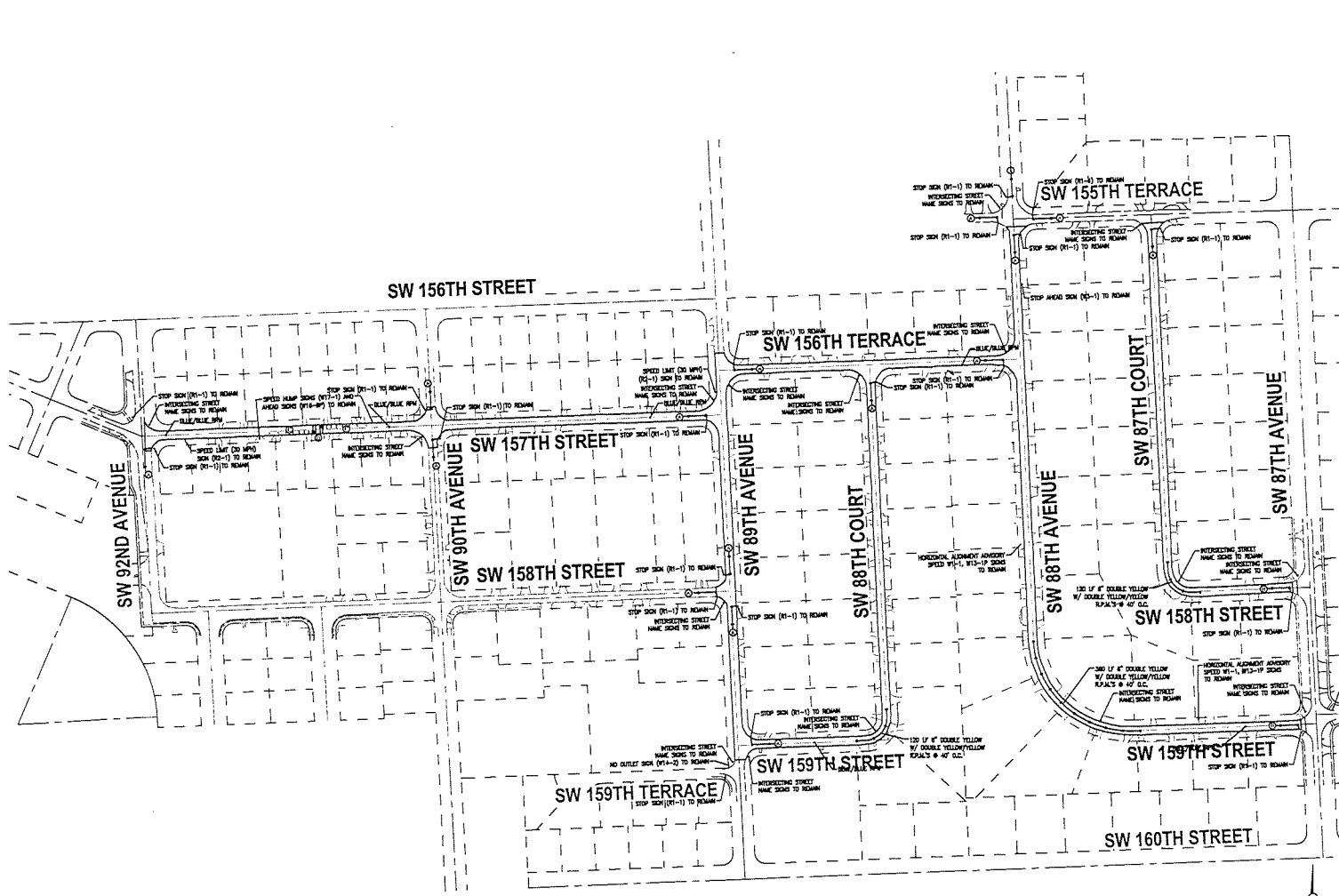
PAVEMENT OVERLAY PLAN

PREPARED BY: (S) 2020, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 15640
THIS PLAN HAS BEEN DIGITALLY GENERATED AND CHECKED BY: JAMES D. WESSON DATE: 08/04/2020
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONTROLLED. STORED AND SEALED AND THE SIGNATURE MUST BE REPRODUCED ON ANY ELECTRONIC COPIES.
DATE: 04-24-2023

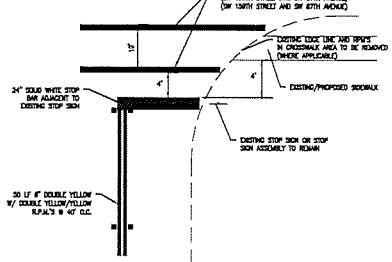
SCALE: AS SHOWN
PROJECT NO: 21-4326.1

SHEET: C12

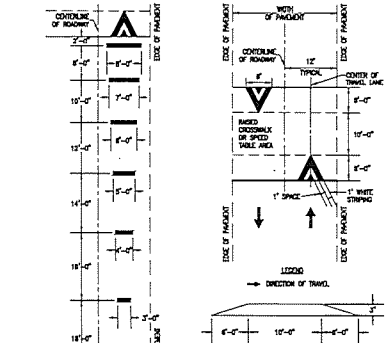
File Name: P:\Projects\2021\211006 Palmetto Bay - Professional Consulting Services\211006 Palmetto Bay - Improvements\000 Data\Drawings\211006-1-C-Pavement - (Posted by: Salvador Soto on Thursday, May 11, 2023 2:56:18 PM)



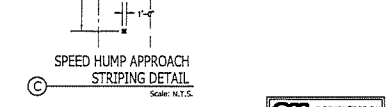
A TYPICAL STOP BAR DETAIL (W/O CROSSWALK/SIDEWALK) Scale: N.T.S.



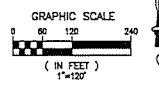
B TYPICAL STOP BAR DETAIL (W/ CROSSWALK/SIDEWALK) Scale: N.T.S.



C SPEED HUMP DETAIL Scale: N.T.S.



C SPEED HUMP APPROACH STRIPING DETAIL Scale: N.T.S.



PERMIT SET ELEVATIONS ARE IN NGVD 29

Revision table with columns for NO, DATE, REVISION, BY, and DATE.

Calvin Giordano & Associates, Inc. logo and contact information including address and phone number.

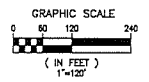
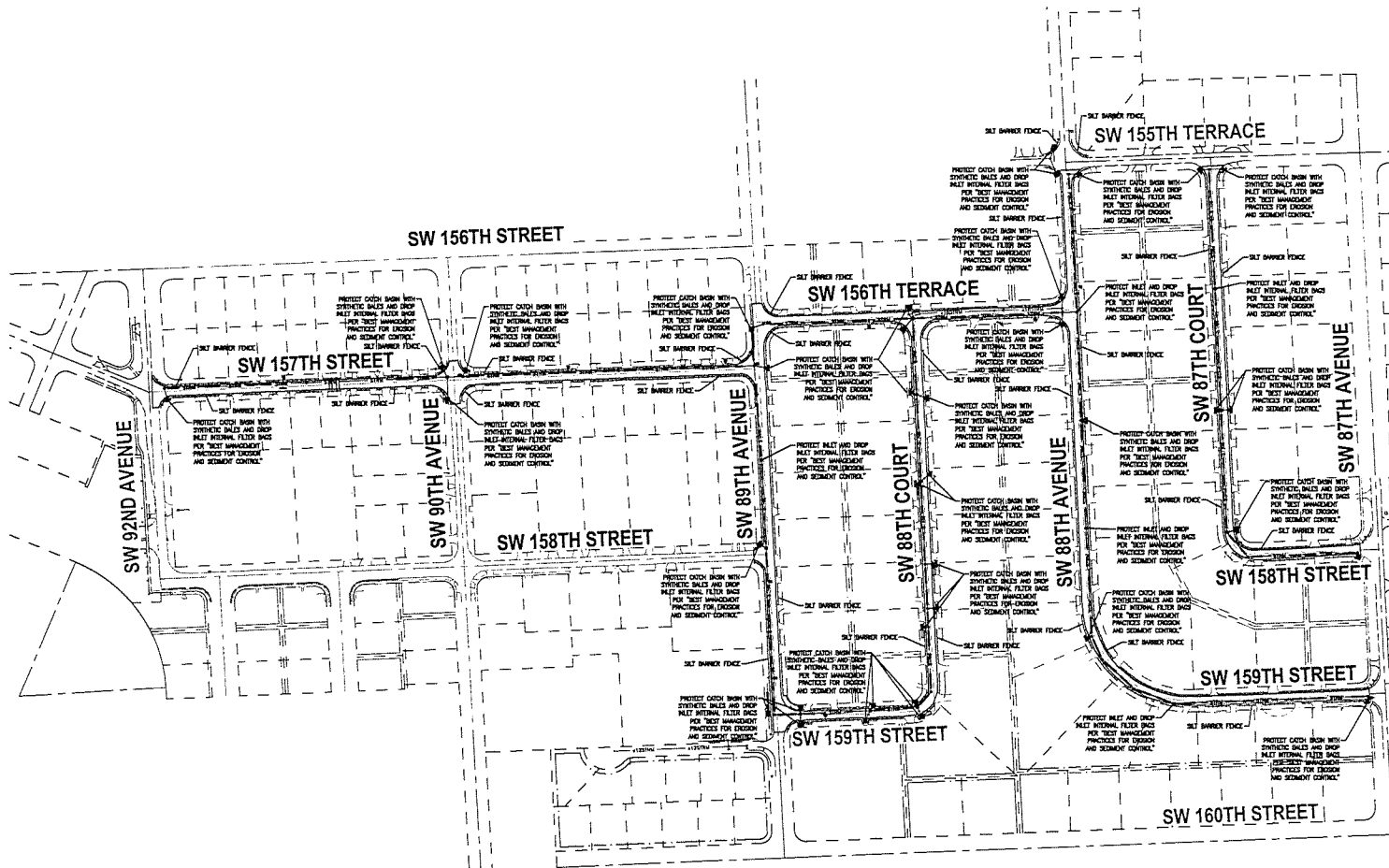
PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS VILLAGE OF PALMETTO BAY

PAVEMENT MARKING PLAN AND DETAILS

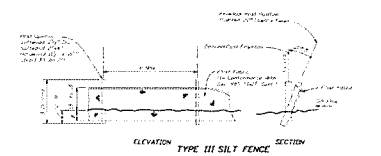
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SHEET C13

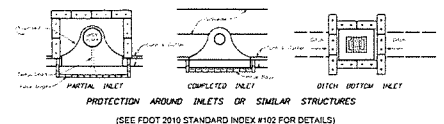
File Name: P:\Projects\2021\21-4326 Improvements\000 Data\Drawings\21-4326-1-C-99991.dwg -- (Plotted by: Substation Staff on Thursday, May 11, 2023 2:58:58 PM)



- SWPPP NOTES:**
- CONTRACTOR SHALL ADHERE TO THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN BEST MANAGEMENT PRACTICES (BMP) TO ENSURE COMPLIANCE WITH THE NPDES PERMIT AND TO MINIMIZE THE IMPACT TO PUBLIC STORMWATER FACILITIES. A NOTICE OF VIOLATION (NOV) SHALL BE FILED PRIOR TO ANY CONSTRUCTION ACTIVITIES IF APPLICABLE.
 - PRIOR TO DEMOLITION ACTIVITIES, CONTRACTOR SHALL INSTALL POLLUTION PREVENTION CONTROL DEVICES (SILT BARRIERS, SEDIMENT BARRIERS, ETC.) ACCORDING TO THE APPROVED SWPPP AND AS RECOMMENDED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LATEST GUIDANCE AND PERMITTING REQUIREMENTS.
 - PRIOR TO RECONSTRUCTION ACTIVITIES, A SILT FENCE IN ACCORDANCE WITH THE APPROVED SWPPP DETAILS AND LATEST DEP STANDARDS SHALL BE INSTALLED AROUND THE SITE PROPERTY LINES. ALL PUBLIC ALLEYS SURROUNDING THE SITE SHALL BE PROTECTED BY THE INSTALLATION OF FILTER FABRIC INTO THE TRUNK AND GUTS OR OTHER APPROVED BARS TO PROTECT AGAINST STORM RUNOFF.
 - POLLUTION CONTROL INSTALLATIONS AS APPROVED AND SHOWN IN THE SWPPP SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND CONSTRUCTION PERIODS UNTIL THE PROJECT HAS BEEN COMPLETED AND APPROVED BY THE VILLAGE ENGINEERING DEPARTMENT OR PROJECT ENGINEER.
 - CONTRACTOR SHALL VERIFY THE POLLUTION CONTROL DEVICES DAILY FOR SIGNS OF MALFUNCTION, FAILURE, OR WEAR AND TEAR, AND SHALL TAKE IMMEDIATE ACTION IMMEDIATELY UPON OCCURRENCE.
 - EXISTING STORMWATER INLETS, CATCH BASINS, OR MANHOLELS, CHUTE AND OFFSETS, SHALL BE PROTECTED FROM SEDIMENT STORM RUNOFF FROM THE PROPOSED DEVELOPMENT AND CONSTRUCTION ACTIVITIES.
 - CONTRACTOR SHALL IMMEDIATELY REMOVE ALL WASTE, DEBRIS OR OTHER MATERIALS TRAPPED OR SPILLED ONTO EXISTING ROADS AND FACILITIES DUE TO CONSTRUCTION OR CONSTRUCTION ACTIVITIES FROM THE PROPOSED PROJECT.
 - JUST GENERATED FROM CONSTRUCTION SHALL BE MAINTAINED BY DAILY WATERING OF THE SITE.
 - CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENTATION CONTROL INSPECTOR TO INSPECT ALL PORTS OF DISCHARGE WITH HEAVY WEATHERS TO VERIFY THE CONDITION OF EXISTING POINTS, INTEGRITY OF SILT FENCE AND POLLUTION CONTROL DEVICES, BEST CONTROL, MANHOLE, REGULAR TRAFFIC AND CONSTRUCTION MATERIAL STORAGE AND DISPOSAL. WRITTEN RECORD OF ALL INSPECTIONS SHALL BE STORED BY THE CONTRACTOR DURING DEMOLITION AND CONSTRUCTION PERIODS AND SHALL BE SUBMITTED TO VILLAGE INSPECTORS UPON REQUEST.
- THE INSPECTION REPORT SHALL INCLUDE AT A MINIMUM THE FOLLOWING INFORMATION:
- NAME OF INSPECTOR
 - DATE OF INSPECTION
 - MANUAL DATE
 - CONTRACTOR'S COMMENTS ABOUT THE SWPPP
 - ACTING TRUCK BY CONTRACTOR FOR ALL INCIDENTS OF NON-COMPLIANCE WITH PERMITS.
 - CONSTRUCTION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND PERMITS.



- NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS**
- Type 1 and 2 Synthetic Barrier should be installed in accordance with Type 3 details.
 - When the synthetic barrier is 10' or 12' high, use a double row of bales. There is one intermediate row between the top and bottom rows.
 - Use 6" x 6" x 6" bales. Do not use 4" x 4" x 4" bales. Synthetic barrier equipment through pipe or other structures shall be 12" x 12" x 12" bales.
 - Install bales in a staggered fashion.
 - When used in conjunction with filter fabric, install bales on the upstream side of the fabric.
 - When the synthetic barrier is 10' or 12' high, use a double row of bales. There is one intermediate row between the top and bottom rows.
 - Use 6" x 6" x 6" bales. Do not use 4" x 4" x 4" bales. Synthetic barrier equipment through pipe or other structures shall be 12" x 12" x 12" bales.



- LEGEND**
- PROJ. SILT BARRIER FENCE
 - PROJ. SYNTHETIC BALES AND FILTER FABRIC
- PERMIT SET
ELEVATIONS ARE IN NGVD 29




NO.	DATE	BY	NO.	DATE	BY

Calvin, Giordano & Associates, Inc.
 A LIMITED LIABILITY COMPANY
 3275 S.W. 15th Street, Suite 100
 Boca Raton, FL 33432

PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS
 VILLAGE OF PALMETTO BAY

STORMWATER POLLUTION PREVENTION PLAN
 SCALE: AS SHOWN
 SHEET: SWPPP1
 DATE: 04-20-2022

NO	DATE	REVISION	BY



Calvin, Giordano & Associates, Inc.
 A SERVICE COMPANY
 22000 W. US HWY 1, SUITE 1100
 PALM BEACH, FL 33411


**PALMETTO BAY SUB-BASIN
 57/96 IMPROVEMENTS**
 VILLAGE OF PALMETTO BAY

**STORMWATER POLLUTION
 PREVENTION PLAN
 CONTRACTOR FORMS**

PERMIT SET
 ELEVATIONS ARE IN NGVD 29

THIS PLAN HAS BEEN PREPARED AND CHECKED BY JAMES D. MESSINA, DATE: 05/04/2023.
 PROJECT NO: 21-4326.1

DATE: 04-24-2023



KNOW WHAT'S BELOW
 CALL 811
 BEFORE YOU DIG

SCALE: AS SHOWN
 SHEET: SWPPP3

NOTE TO CONTRACTOR:
 THIS IS THE CONTRACTOR'S CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). STORMWATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 1 ACRE. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.25 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

PROJECT: PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN
 INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

INSPECTOR: _____

DATE: _____

DATE SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

DEPTH OF SEDIMENT IN BATH OF SEDIMENT BASIN	ANY EVIDENCE OF OVERFLOW OF THE SEDIMENTATION T	DOES ALL TRAFFIC CLEAR OR IS IT STABILIZED LEAVE THE SITE?	IS THE CLAY/ SILT/ SAND/ GRAVEL SEDIMENTATION ENTRANCE TO LEAVE THE SITE? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PROJECT: PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN
 INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

INSPECTOR: _____

DATE: _____

DATE SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

DEPTH OF SEDIMENT IN BATH OF SEDIMENT BASIN	ANY EVIDENCE OF OVERFLOW OF THE SEDIMENTATION T	DOES ALL TRAFFIC CLEAR OR IS IT STABILIZED LEAVE THE SITE?	IS THE CLAY/ SILT/ SAND/ GRAVEL SEDIMENTATION ENTRANCE TO LEAVE THE SITE? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR SEDIMENT BASIN: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PROJECT: PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN
 INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

INSPECTOR: _____

DATE: _____

DATE SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

DEPTH OF SEDIMENT IN BATH OF SEDIMENT BASIN	ANY EVIDENCE OF OVERFLOW OF THE SEDIMENTATION T	DOES ALL TRAFFIC CLEAR OR IS IT STABILIZED LEAVE THE SITE?	IS THE CLAY/ SILT/ SAND/ GRAVEL SEDIMENTATION ENTRANCE TO LEAVE THE SITE? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR LATCH BAC/PALAD: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PROJECT: PALMETTO BAY SUB-BASIN 57/96 IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN
 INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

INSPECTOR: _____

DATE: _____

DATE SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

DEPTH OF SEDIMENT IN BATH OF SEDIMENT BASIN	ANY EVIDENCE OF OVERFLOW OF THE SEDIMENTATION T	DOES ALL TRAFFIC CLEAR OR IS IT STABILIZED LEAVE THE SITE?	IS THE CLAY/ SILT/ SAND/ GRAVEL SEDIMENTATION ENTRANCE TO LEAVE THE SITE? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR LATCH BAC/PALAD: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____