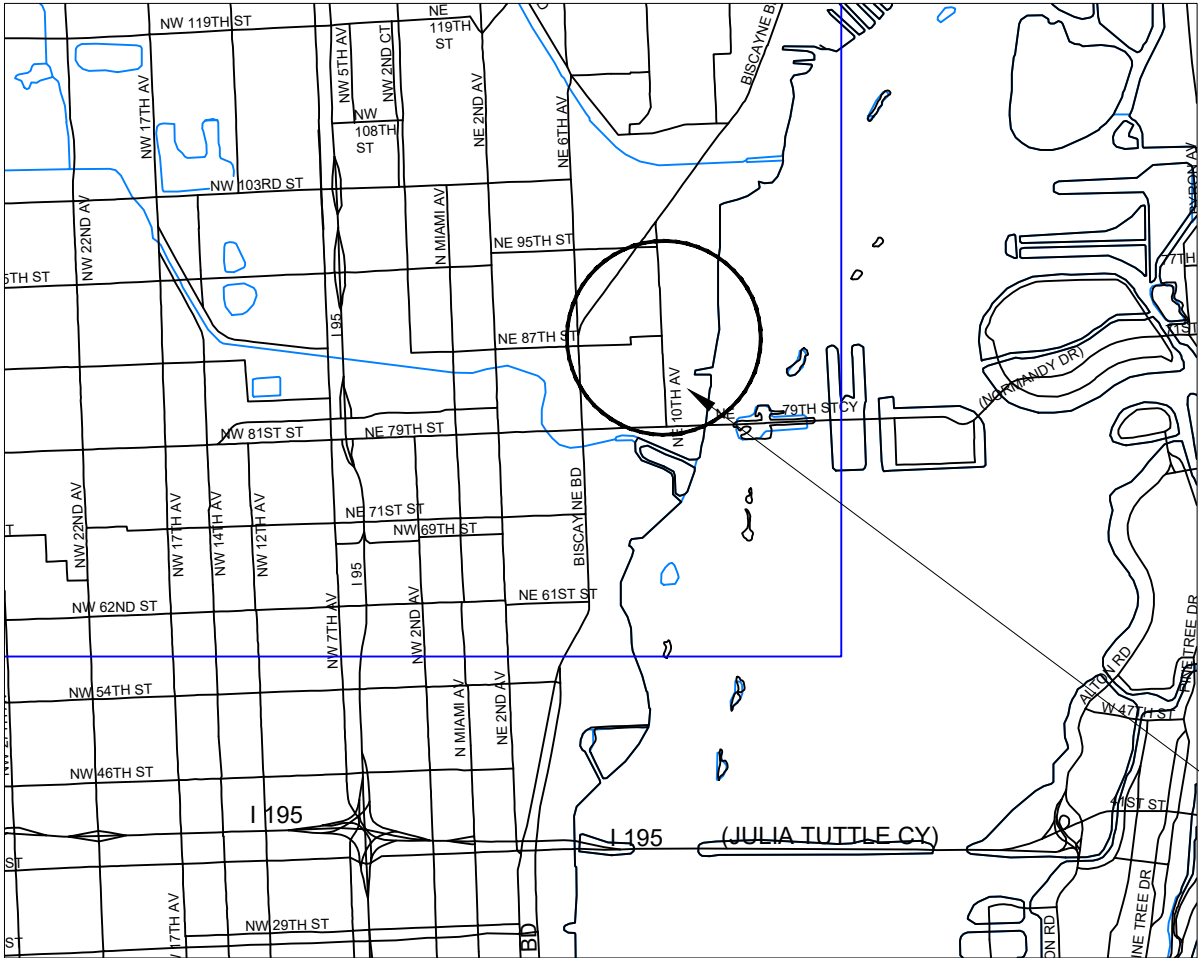


PLANS FOR PROPOSED  
DRAINAGE IMPROVEMENTS TO  
NE 90 ST AND NE 10 AVE  
PIPE CONNECTION

MIAMI-DADE COUNTY PROJECT NO.20230018  
FUNDING SOURCE: STORMWATER UTILITY

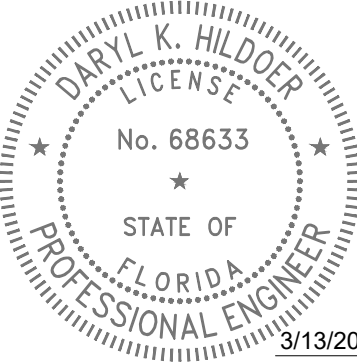
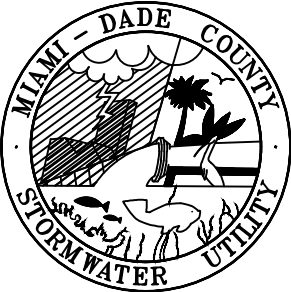
INDEX OF SHEETS

SHT. No.	SHEET DESCRIPTION
1	COVER SHEET
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NOTE:  
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

PROJECT LOCATION



THIS ITEM HAS BEEN DIGITALLY SIGNED  
AND SEALED BY DARYL K. HILDOER, P.E.  
ON THE DATE ADJACENT TO THE SEAL.

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DESIGN	I.ROBERTO	CHECK	F.GONZALEZ
		DRAWN	M.CEDRON
DATE	02-15-23	SHEET	1 OF 9

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



PREPARED BY



DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION

STEPHEN P. CLARK CENTER  
111 NW 1 ST, SUITE 1510  
MIAMI, FLORIDA 33128

W:\2023\ISBELT\NE 90 ST AND NE 10 AVE CONNECT\PROJECT\SH-02.dwg Mar 01, 2023 -- 11:18am E164376

GENERAL NOTES:

1. ALL ELEVATIONS REFER TO THE MSL, 1929 NATIONAL GEODETIC VERTICAL DATUM (NGVD)
2. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE PERMITTING REQUIREMENTS OF MIAMI DADE COUNTY REGULATORY AND ECONOMIC RESOURCES AND THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
3. IT IS THE INTENT THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THERE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. CATCH BASINS, SEEPAGE DRAINS, PAVEMENT RESTORATION AND PAVEMENT AROUND CATCH BASINS TO BE ACCORDING TO THE DETAILS AND APPLICABLE REQUIREMENTS OF THE MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
5. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT.
6. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, AND UTILITIES WITH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARLY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
7. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE; ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES; PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION, ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
8. CONTRACTOR SHALL CONTACT THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1 (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
9. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT MAY BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY REGULATORY AND ECONOMIC RESOURCES DEPARTEMENT AND MUNICIPALITIES WITH JURIDICITION PRIOR TO REMOVING ANY TREES.
10. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
11. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION.
12. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPEN AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES. WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DETERMINED, ANY TRENCH SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN TRAFFIC.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
14. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
15. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 16,000 LB. WHEEL LOADS.
16. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20: 16,000 LBS. OVER 8" X 20" AREA.
17. ALL STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.
18. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN SECTION C2 AND SECTION R19 OF THE PUBLIC WORKS DEPARTMENT MANUAL. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNING REMOVED DURING CONSTRUCTION PERIOD.
20. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
21. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE INSPECTOR WILL SHUT THE JOB DOWN.
22. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL CONTROL DETAIL AS OUTLINED IN MIAMI-DADE COUNTY PUBLIC WORKS MANUAL.
23. CONTRACTOR SHALL MAINTAIN AT LEAST THE FOLLOWING NUMBER OF TRAFFIC LANES FOR CORRESPONDING TIME PERIODS: MONDAY - FRIDAY 7-9 A.M. AND 4-6 P.M.; NO INTERRUPTION TO TRAFFIC IS PERMITTED. ALL OTHER TIMES:

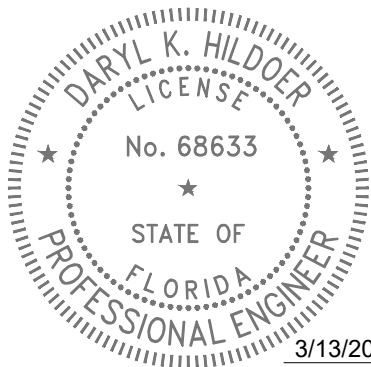
A) MAINTAIN ONE LANE FOR TWO-WAY OPERATION WITH FLAGMEN.  
B) MAINTAIN ONE LANE IN EACH DIRECTION FOR TRAFFIC.
24. CONTRACTOR MUST PROVIDE FLASHER ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.
25. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF THE DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
26. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR. THREE (3) SETS LABELED "AS-BUILT" MUST BE SUBMITTED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER OF RECORD PRIOR TO FINAL ACCEPTANCE OF THE WORK.
27. IT IS RESPONSIBILITY OF THE CONTRACTOR TO SELECT AND OBTAIN THE APPROPRIATE PERMISSION FROM MIAMI-DADE COUNTY OR APPLICABLE AGENCY THAT HAS JURISDICTION ON THE "PROPOSED" STAGING AREAS.

28. DRAINAGE/UTILITY TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT. A TEMPORARY COVER WITH A CAPACITY OF H-20 LOADING SHALL BE PLACED AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO MIAMI-DADE COUNTY.
29. PROVIDE FLOWABLE FILL OVER PIPE AS COVER WHERE MINIMUM PIPE COVER OF 2 FEET CANNOT BE ACCOMPLISHED UNDER PAVED AREAS. HOWEVER, THE COVER WITH FLOWABLE FILL SHALL BE NO LESS THAN 12 INCHES.
30. ALL STATIONS AND OFFSETS REFER TO [CENTERLINE]/ [BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
31. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
32. MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED CONSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT UTILITY COORDINATOR PATRICK CHONG AT 786-268-5255. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE: 786-268-5469. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305-552-4926, BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, WASD EMERGENCY NUMBER 305-552-8901. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
33. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
34. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
35. IF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING, SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
36. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
37. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
38. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
39. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
40. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
41. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.
42. CONTRACTOR TO INSTALL ½" PERFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
43. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6"CONCRETE.
44. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI-DADE TRANSPORTATION AND PUBLIC WORKS DEPARTMENT. ENGINEER TO CONTACT MIAMI-DADE COUNTY TRANSPORTATION AND PUBLIC WORKS DEPARTMENT AT (305) 637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
45. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH BIDS WILL BE BASED.
46. ANY SURVEY MONUMENT, BENCH MARK, ETC., FOUND DURING CONSTRUCTION ACTIVITIES ARE TO BE RESTORED TO IT IS ORIGINAL LOCATION AND COORDINATES AS DEPICTED IN COUNTY RECORDS PLAT AND BOOK. RESTORATION WILL BE AT NO ADDITIONAL COST AND MUST BE SHOWN ON AS-BUILT PLANS.
47. FOR THE INSTALLATION OF SOD IN SWALE AREAS ADJACENT TO ROADWAYS, SIDEWALKS, DRIVEWAY APPROACHES OR ANY OTHER PAVED SURFACES, THE SWALE MUST BE RESTORED TO FORM A "V" SHAPE AS PER THE DETAILS INCLUDED IN THE MIAMI DADE COUNTY PUBLIC WORKS MANUAL. SPECIFICALLY, THE ELEVATION OF THE TOP OF THE SOD MUST MATCH THE ABUTTING AREAS (EDGE OF PAVEMENT, SIDEWALK OR DRIVEWAY APPROACH) AND THE CENTERLINE OF THE SWALE SHALL BE ON AVERAGE 3 INCHES BELOW THE ROADWAY EDGE OF PAVEMENT ELEVATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

NE 90 ST AND NE 10 AVE  
PIPE CONNECTION  
DRAINAGE IMPROVEMENT PROJECT

PROJECT NO. 20230018

SHEET 2 OF 9



THIS ITEM HAS BEEN DIGITALLY SIGNED  
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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NE 90 ST AND NE 10 AVE  
PIPE CONNECTION  
DRAINAGE IMPROVEMENT PROJECT

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
DESIGNED BY	I. ROBERTO	02-15-23	DRAWN BY	M.CEDRON	02-15-23
CHECKED BY	F.GONZALEZ	02-15-23	CHECKED BY	I. ROBERTO	02-15-23
SUPERVISED BY: LHERRERA					



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

GENERAL NOTES

SURVEYOR'S NOTES

-Survey as performed by PWWM Survey Section as per:  
FB #2882, PG #53-63  
N.E. 10 CT AND N.E. BAYSHORE DR. (N.E. 89 ST)

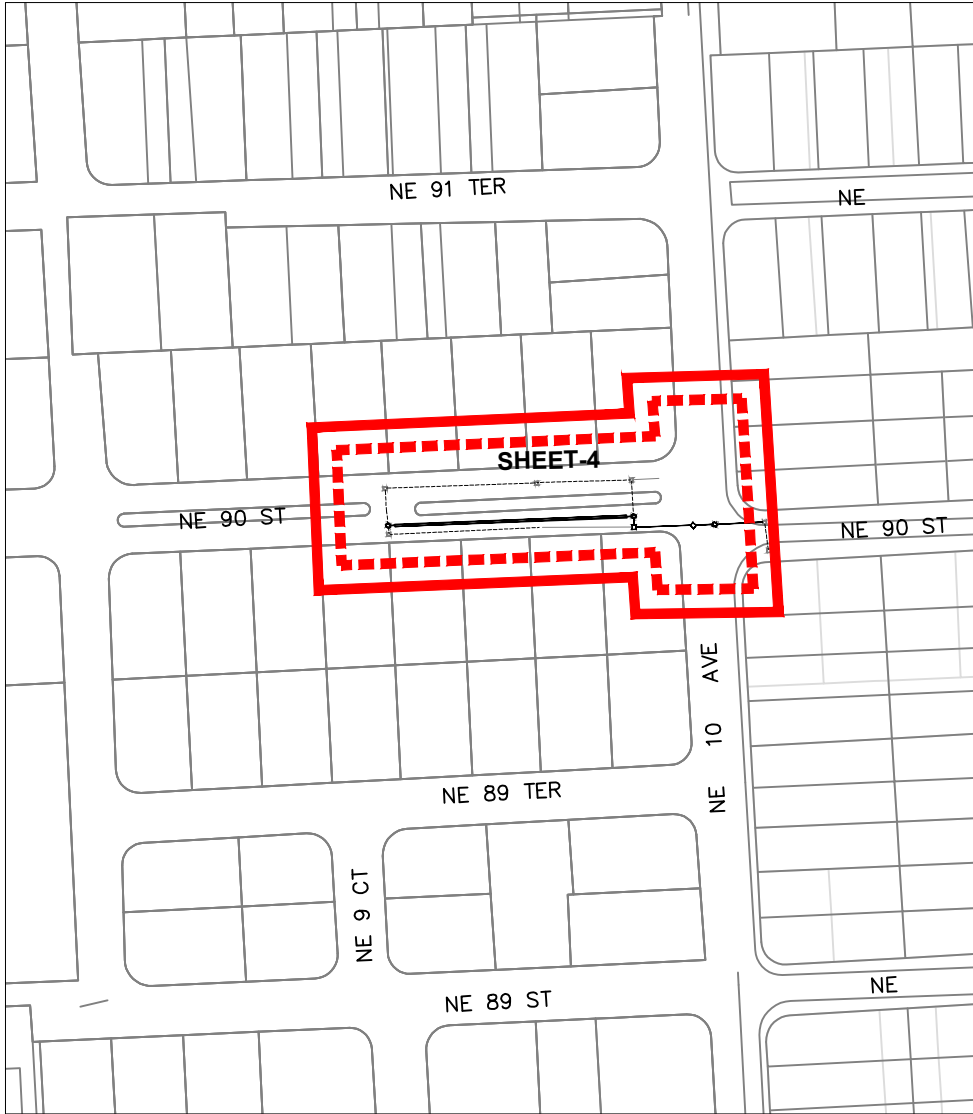
-Bench mark for vertical control information was obtained from Public  
Works Survey Section  
Locator= 3120 W; Name: L-12; BM Elev=6.99'  
NE 84 ST-200'± South of C/L; NE 10 Ave-20±' East of C/L

-Brass Bar in Center of conc. wingwall of Bridge

\_All corner lot radii are 25' unless otherwise noted

-The coordinates are taken by G.P.S

-N.G.V.D. 1929 DATUM



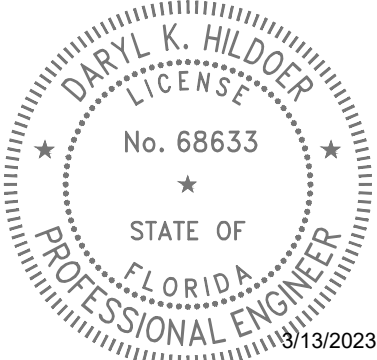
KEY SHEET  
TRS 53-42-06

LEGEND AND  
ABBREVIATIONS:

- (M) = Measures  
(P) = By Plat  
F; Fd = Found  
CND = Concrete Nail & Disk  
PKF = PK Nail found  
CNDf = Concrete Nail & Disk found  
CNF = Concrete Nail & Disk found  
CNC = Concrete Nail Cut  
DHF = Drill Hole Found  
NF = Nail found  
PKDF = PK Nail & Disk Found  
R/W = Right-of-way  
RBAC = Rock base asphalt compound  
B = Base Line  
C = Center Line  
R = Radius  
L = Length of Curve  
C&G = Curb and Gutter  
E/P = Edge of Pavement  
T/B = Top of Bank  
E/W = Edge of Water  
E/W = Edge of Water  
PCP = Permanent Control Point  
RLS = Registered Land Surveyor  
PLS = Professional Land Surveyor  
S = Street Sign  
A = Alum. Flashing School Light  
M = Mailbox  
D = Decorative Light Pole  
O = Metal light pole  
X = Metal Traffic light pole  
X = Metal Power Pole  
□ = Concrete Light Pole  
□ = Concrete Power Pole  
O = Wood Light Pole  
X = Wood Power Pole  
X = Wood Telephone Pole  
O = Fiberglass Light Pole  
W = Water Manhole  
S = Sanitary Manhole  
□ = Cable Television Pedestal  
□ = TV cable Riser Box  
□ = TV Control Box  
□ = Cable Box  
□ = Telephone Handhole  
□ = Telephone Manhole  
□ = Telephone Utility Box  
□ = Telephone Riser Box  
□ = Telephone Riser Control Box  
□ = Telephone Control Box  
□ = Box  
X = Crossing Sign  
P = Post  
G = Gas valve  
P = PVC Post  
W = Wire guy  
S = Sprinkle Head  
C = Central angle of curve  
M = Monitoring Well  
P = Petroleum Pipeline  
E = Electric Handhole  
E = Electric Manhole  
F = Firehydrant  
V = Water Valve  
M = Water Meter  
T = Traffic Sign Manhole  
T = Traffic Sign Handhole  
T = Traffic Control Box  
T = Traffic Signal Box  
S = Storm Water Manhole  
E = Electrical Control Box  
R = Rail Road Crossing (Light)  
C = Concrete  
S = Sanitary Sewer Valve  
A = Asphalt  
U = Unimprovement Driveway  
G = Gravel  
B = Brick  
S = Stamped Concrete  
C = Concrete Block Fence  
D = Tree Diameter

- = Existing catch basin  
□ = Proposed catch basin  
O = Proposed manholes  
— = Existing solid pipe  
— = Existing exfiltration trench  
— = Proposed solid pipe  
— = Proposed exfiltration trench  
— x — x — x — x — = Wood Fence  
— x — x — x — x — = Chain link fence  
— o — o — o — o — = Iron fence  
— — — — = Right-of-way Line  
— FPL — = F.P.L. overhead  
— U.G.T — = F.P.L. underground  
— = Water Line  
— GL — GL — = Gas Main  
— — — = Force Main  
— — — = Cable TV  
— — — = Bell South Telephone Conduit  
— — — = ATT Telephone Conduit  
— — — = Baseline  
— — — = Sanitary Sewer

- AVOCADO TREE  
ARECA TREE  
AUST. PINE TREE  
ALMOND TREE  
BLACK OLIVE TREE  
BOTTLE BRUSH TREE  
BISMARK PALM  
BUSH TREE  
BISCHOFIA TREE  
BANANA TREE  
BANYAN TREE  
BRASILIAN PEPPER  
CABBAGE TREE  
COCONUT TREE  
CLUSTER PALM  
CYPRESS TREE  
CANARY PALM  
COCOS PLUMOSA  
CACTUS  
DATE PALM  
FICUS TREE  
FLORIDA ORCHID TREE  
FOX TAIL TREE  
GUMBO LIMBO TREE  
HIBISCUS TREE  
IXORA TREE  
JUNIPER TREE  
JACARANDA TREE  
KAPOC TREE  
LIVE OAK TREE  
MAMEY TREE  
MULBERRY TREE  
MAHOGANY TREE  
MANGO TREE  
MANGROVE TREE  
NISPERO TREE  
NORFOLK TREE  
OAK TREE  
ORANGE GEIGER  
PINE TREE  
PALM TREE  
QUEEN PALM TREE  
RHOBOLINI TREE  
ROYAL POINCIANA TREE  
ROSEWOOD TREE  
ROYAL PALM  
PHILODENDRON/RUBBER TREE  
SOUR ORANGE TREE  
SEA GRAPE TREE  
SOLITARY PALM  
SILVER BUTTONWOOD TREE  
TABEBULA TREE  
TRAVELER CLUSTER  
TAMARIND TREE  
UNKNOWN TREE  
UMBRELLA TREE  
ZAPODILLA TREE  
WASHINGTON PALM



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NE 90 ST AND NE 10 AVE  
PIPE CONNECTION  
DRAINAGE IMPROVEMENT PROJECT

NAME	DATE	NAME	DATE
DESIGNED BY I. ROBERTO	02-15-23	DRAWN BY M.CEDRON	02-15-23
CHECKED BY F.GONZALEZ	02-15-23	CHECKED BY I. ROBERTO	02-15-23
SUPERVISED BY: L.HERRERA			



SURVEYOR'S NOTES, KEY SHEET  
LEGEND AND ABBREVIATIONS



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DRAINAGE PLAN

W:\2023\BSEL\NE 90 ST AND NE 10 AVE PIPE CONNECTION(03-01-23)\SH-05.dwg Mar 09, 2023 - 9:03am E184376

Summary of Quantities			
Item No.	Description	Unit	Quantity
102-74-1	Barricades (Temporary - Types I, II, VP and Drum)	E.A./DAY	3,600
102-76A	Advance Warning Arrow Panel	E.A./DAY	180
104-10-3	Sediment Barrier	L.F.	100
104-18	Inlet Protection System	E.A.	9
327-70-01	Milling, 1" Average Depth	S.Y.	351
331-72-10A-HMA	Roadway Pavement Restoration ( Replace and match existing base thickness and asphalt course with 8" minimum, primed limerock base and 1" thick of HMA, Asphalt Work Category 3 )	S.Y.	450
331-72-10B-HMA	Inlet Pavement ( Includes 6" limerock base and 1" thick of HMA, Asphalt Work Category 2 )	S.Y.	22
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	24
400-1-15	Class I Concrete [(Miscellaneous) (Collar pipe plugs, structure plugs, etc.) (This item is contingent upon field conditions and may be increased, decreased or eliminated by the Engineer)]	C.Y.	5
425-1-902	Swale Inlet Type P-10M (Any dimension, maximum 15' deep)	E.A.	2
425-2-41	Manhole (Type P-7T, Any dimension, maximum 15' deep)	E.A.	3
425-79	Core and Tie to exist. drainage structures. (Any pipe size hole opening) (Including mortar seal) (This item is contingent upon field conditions and may increased decreased or eliminated by the Engineer)	E.A.	1
425-82	Modify Structure-Cut to enlarge opening as needed in order to accommodate pipe due to utility conflict(s), brick and mortar as needed.	E.A.	2
430-94-1-1	Desilting Pipe, 0 - 48"	L.F.	500
430-95-2	Desilting Drainage Structure	E.A.	7
430-171-118	Pipe Culvert - 18" Diameter (Round)	L.F.	10
430-171-124	Pipe Culvert - 24" Diameter (Round)	L.F.	135
443-70-3-2	French Drain (18" diameter pipe, trench depth 10 ft bls)	L.F.	260
520-1-10	Concrete Curb and Gutter (Type F) (6" Curb, 18" Gutter) (Includes cost of limerock base and subgrade)	L.F.	200
522-2	Concrete Sidewalk (6" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	22
527-2	Detectable Warning on Walking Surface	S.F.	16
575-2A	Sodding-St Augustine, or match existing, includes watering and maintenance. Contingent item based on field conditions, may be increased, or decreased by the Engineer.	S.Y.	833
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional , all colors)	E.A.	8
711-11-121	Thermoplastic ( White) (Solid) (6")	L.F.	300
711-11-125	Thermoplastic ( White) (Solid) (24")	L.F.	20
711-11-221	Thermoplastic ( Yellow) (Solid) (6")	L.F.	200

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

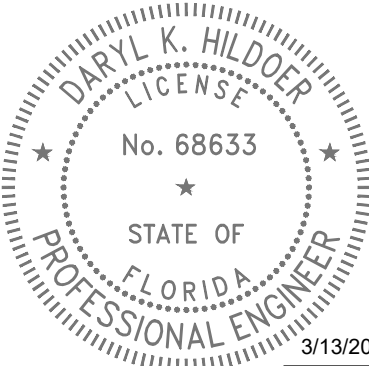
NE 90 ST AND NE 10 AVE  
PIPE CONNECTION  
DRAINAGE IMPROVEMENT PROJECT

	NAME	DATE		NAME	DATE
DESIGNED BY	I.ROBERTO	02-15-2023	DRAWN BY	M.CEDRON	02-15-2023
CHECKED BY	F.GONZALEZ	02-15-2023	CHECKED BY	I.ROBERTO	02-15-2023
SUPERVISED BY:					



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

PROPOSED DRAINAGE STRUCTURE TABLE,  
CONFLICT TABLE AND  
SUMMARY OF QUANTITIES



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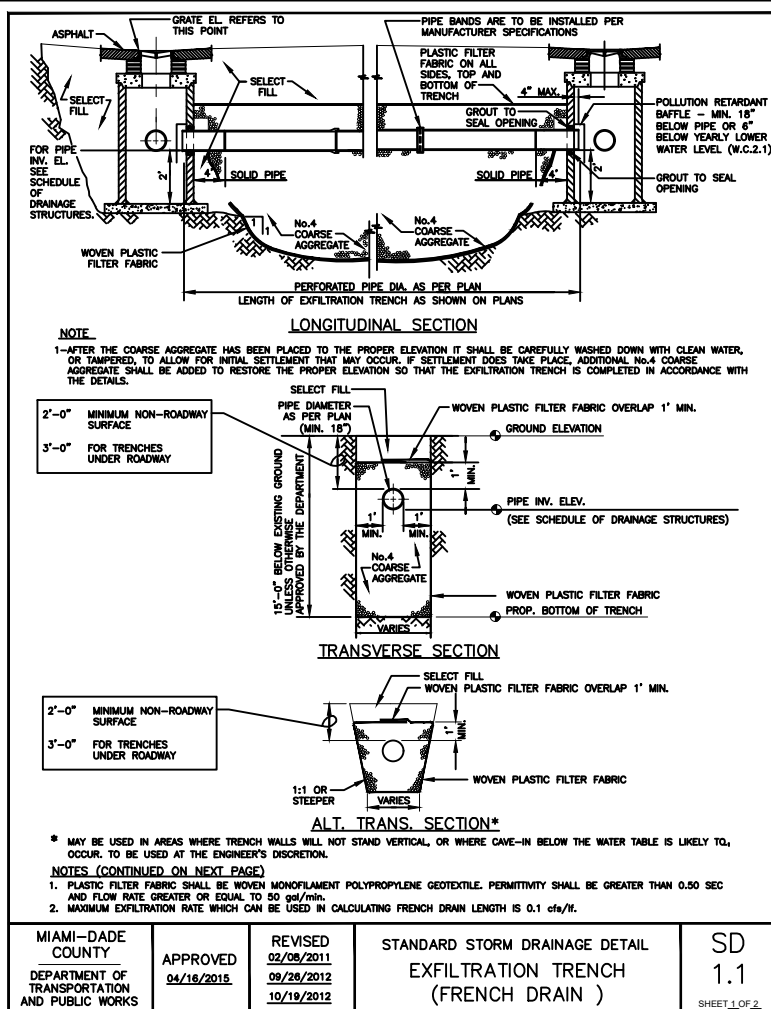
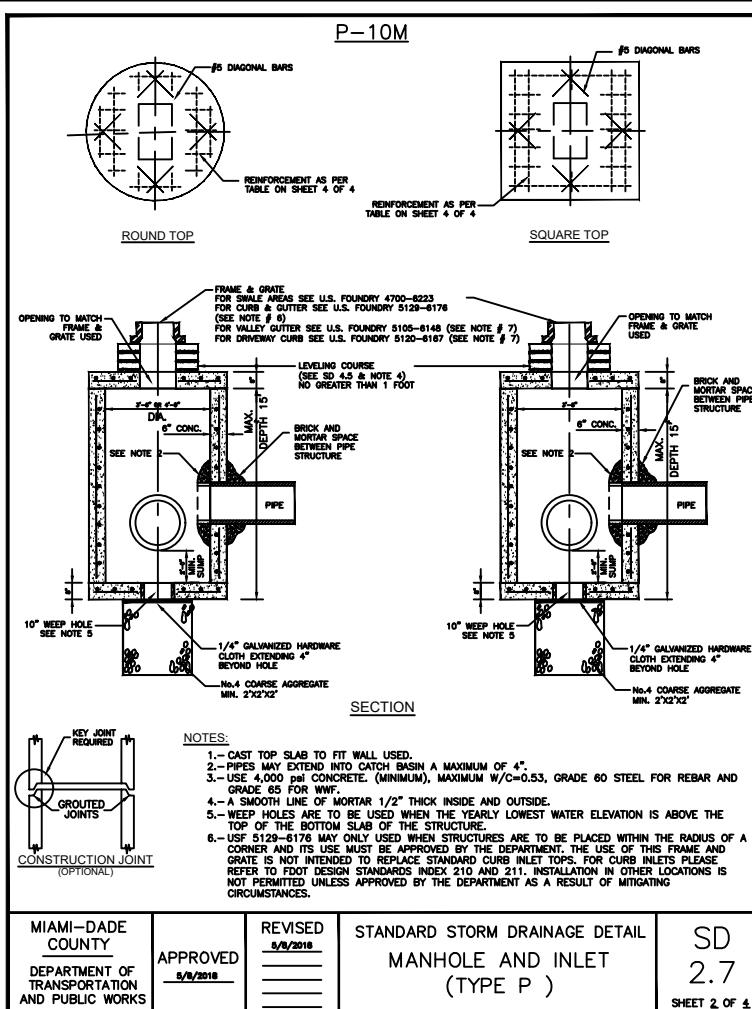
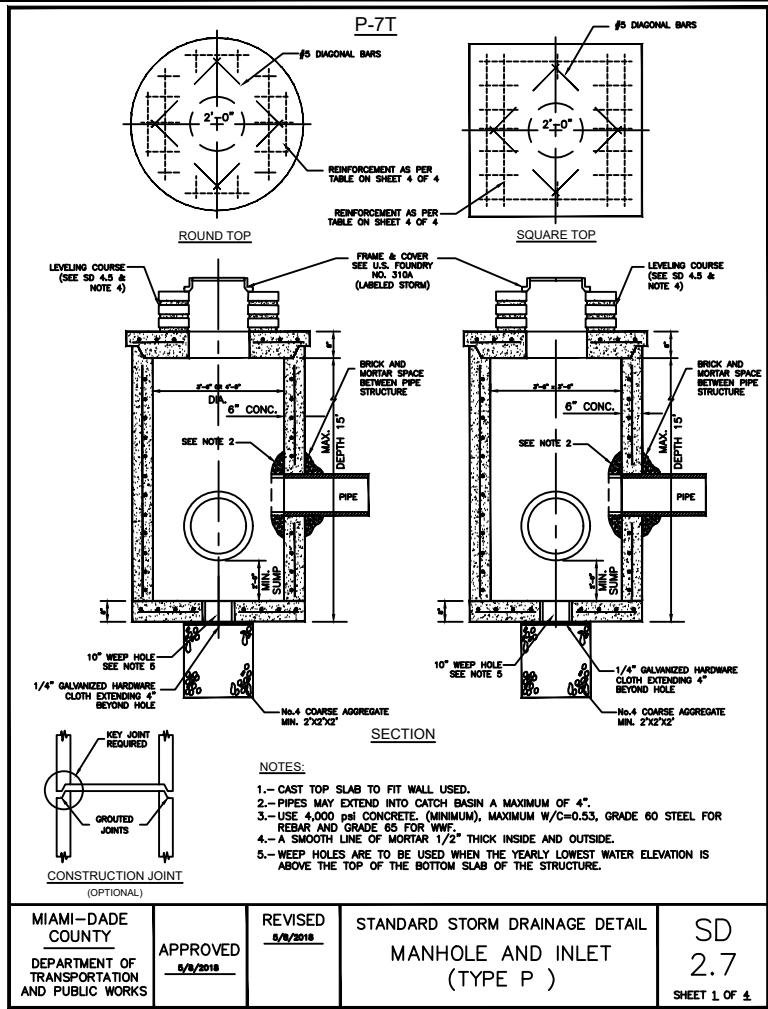
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PROPOSED DRAINAGE STRUCTURE SCHEDULE										
Structure	Station	Type of Structure	Inside Dimensions	Rim Elevations	Bottom Elevations	Pipe Invert Elevation				Remarks
						N	S	E	W	
MH-1	13+70 (15.0' RT)	P-7T	42"x42"	5.70	(-) 1.10	Exist. 0.90	Exist. 0.90	0.90		Connect to Existing Pipe
MH-2	11+10 (15.0' RT)	P-7T	42"x42"	5.30	(-) 1.10	Exist. 1.50	1.25		0.90	
S-1	11+10 (25.0' RT)	P-10M	42"x42"	4.80	(-) 1.50	1.25		0.50	Exist. 1.17	Remove and Replace Existing Structure and Reconnect Existing Pipe
S-2	10+20 (25.0' RT)	P-10M	42"x42"	5.80	(-) 2.00		Stub out 2.10	0.00	0.50	Install USF 5129 Inlet Frame and 6176 Grate.
MH-3	10+00 (25.0' RT)	P-7T	42"φ	6.15	(-) 2.00			2.00	0.00	
E-1		Existing CB 36"φ	Core & tie-in to the West wall of the structure						1.00	Existing catbasin to remain

CONFLICT TABLE							
Conflict Point	Drainage		Water		Gas		AT&T
	Invert Elevation	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe Pipe Dia.
CP-1	+0.50	24"					+3.30(A) 4"
CP-2	+0.00	24"	+3.00	12"			+3.50 Box '19"x19"
CP-3	+2.00	24"	+1.50	54"	+4.00(A)	6"	

*Elevations of pipes were not provided by the Utility Company, therefore, standard cover was assumed.*  
*Assumed top and pipe diameter are followed by an "A".*  
*Elevations on table are in NGVD.*

W:\2023\1\SE\1\NE 90 ST AND NE 10 AVE CONNECTION\PROJECT\NE 90 ST AND NE 10 AVE PIPE CONNECTION(02-28 COMMENT)\SH-06.dwg Mar 01, 2023 - 11:21am E184376



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, HAFT SECTION LINE, AND COLLECTOR ROADWAYS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS

PIPE DIAMETER (inches)	OUTER SHELL	LINER
	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 5/8" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
36	240	120
42	275	140
48	315	150
54	355	180
60	395	200
72	470	235
84	550	275

**NOTES:**

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

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	REVISOR 6-4-88 10-22-13 5-2-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1 SHEET 2 OF 2
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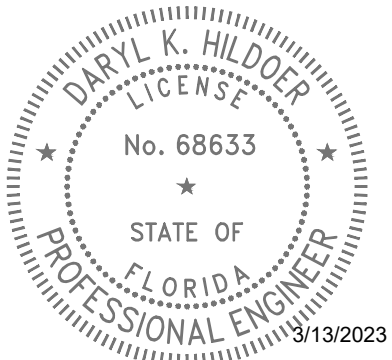
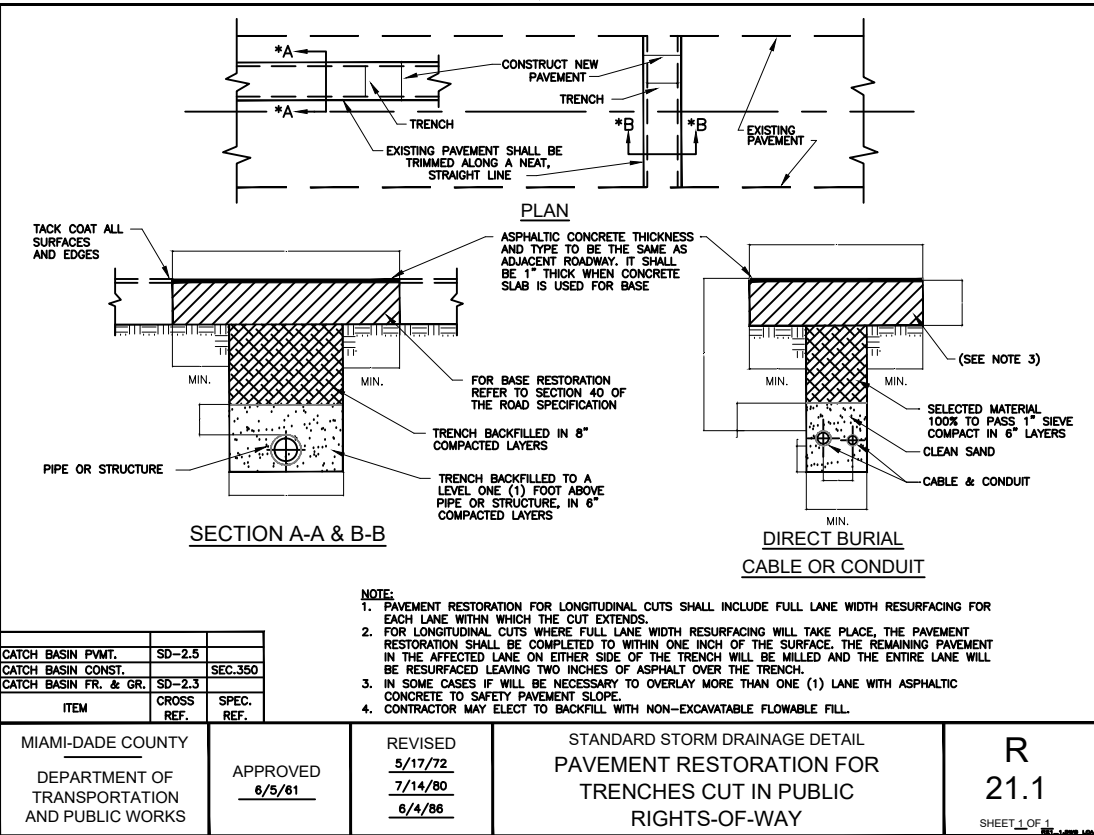
**SQUARE STRUCTURE**

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
2.7	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@6.5" 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	8x8 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	8x8 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	8x8 W20 or #4@10"E.W.	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.

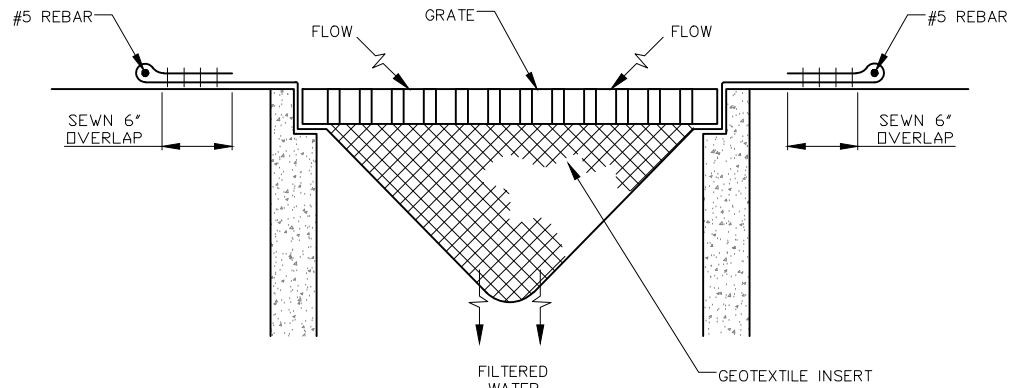
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISOR 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7 SHEET 3 OF 4
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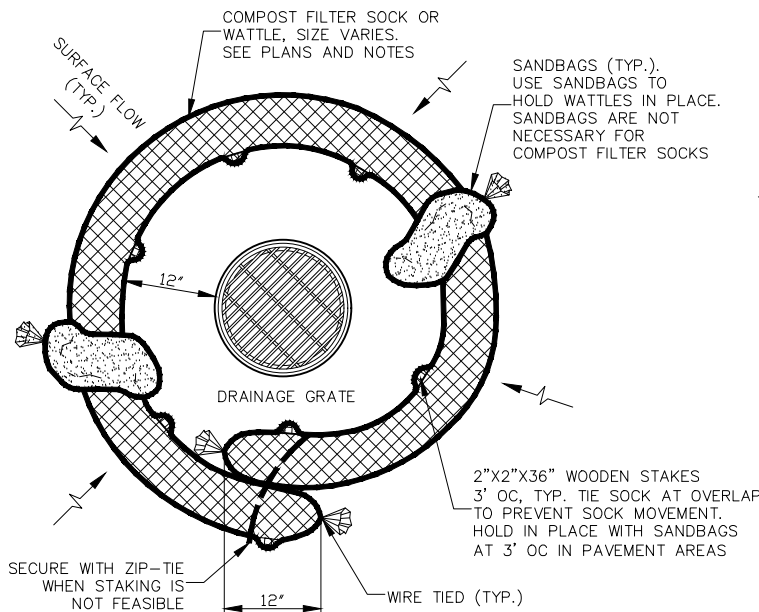
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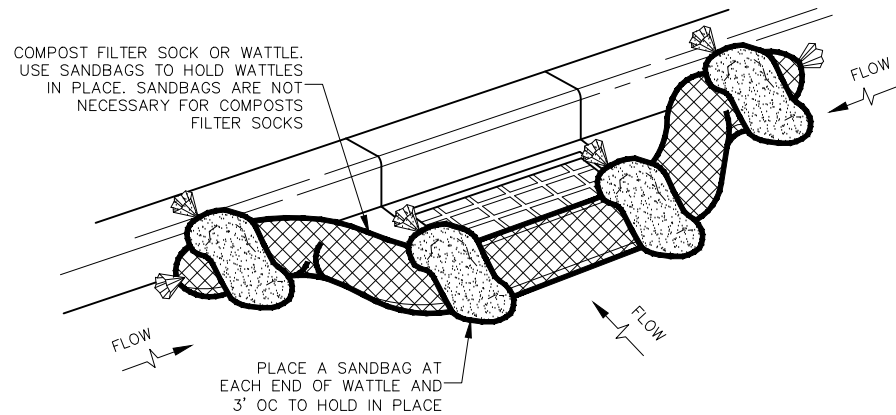
REVISIONS						NE 90 ST AND NE 10 AVE PIPE CONNECTION DRAINAGE IMPROVEMENT PROJECT						DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STEPHEN P. CLARK CENTER 111 NW 1 ST MIAMI, FLORIDA 33128					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE	CHECKED BY	NAME	DATE	SUPERVISED BY	NAME	DATE
						I. ROBERTO	I. ROBERTO	02-15-23	M. CEDRON	M. CEDRON	02-15-23	F. GONZALEZ	F. GONZALEZ	02-15-23			



PREFABRICATED FILTER INSERT - TYPE 3  
NOT TO SCALE

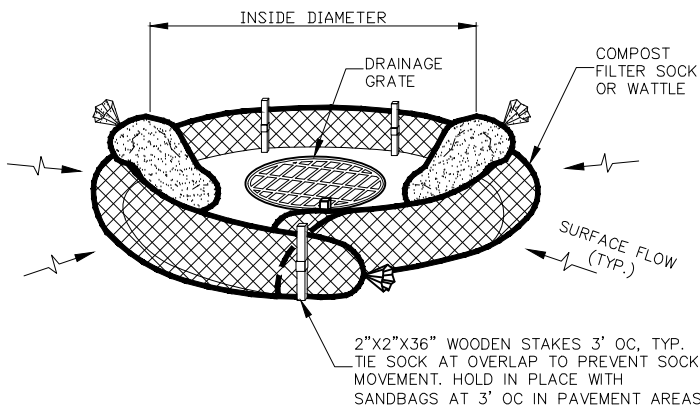


AREA DRAIN PLAN



CURB INLET PERSPECTIVE VIEW

COMPOST FILTER SOCK OR WATTLE - TYPE 7  
NOT TO SCALE

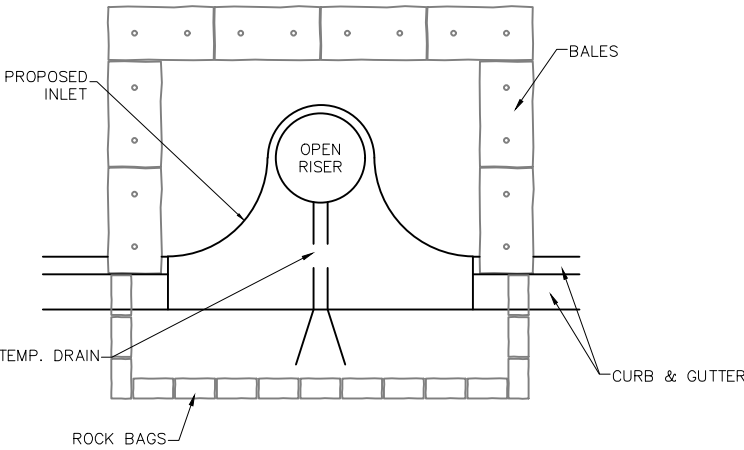


AREA DRAIN PERSPECTIVE VIEW

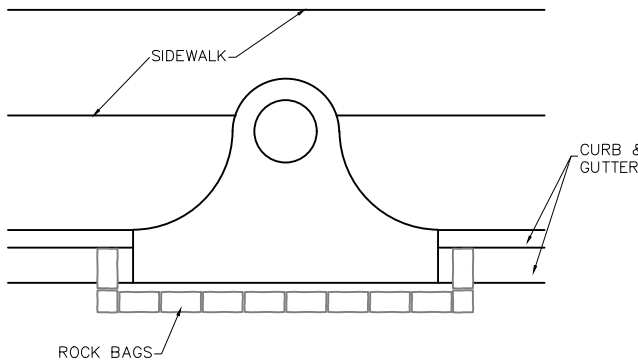
NOTES:

TYPE 3 – PREFABRICATED FILTER INSERTS  
INSTALL PREFABRICATED FILTER INSERTS  
ACCORDING TO THE PLANS, SPECIAL PROVISIONS,  
AND MANUFACTURER RECOMMENDATIONS.  
PREFABRICATED INSERTS WITH PROVISIONS FOR  
OVERFLOW ARE ALLOWED ONLY WHEN  
ACCOMPANIED BY ADDITIONAL BMP's TO  
PREVENT THE POTENTIAL OF SEDIMENTS  
ENTERING PROJECT STORM SYSTEMS.  
FIELD FABRICATED INSERTS ARE NOT ALLOWED.

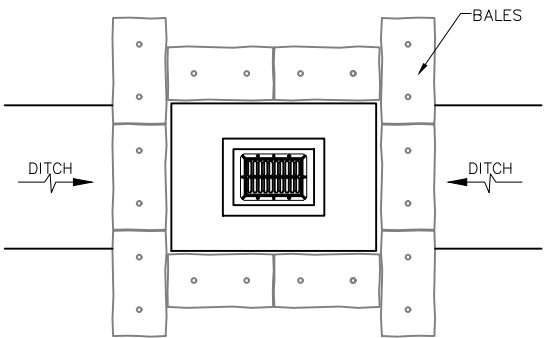
TYPE 7 – COMPOST FILTER SOCK  
DRIVE 2"x2" WOOD STAKES A MINIMUM OF  
6" INTO GROUND AND FLUSH WITH THE TOP  
OF THE SOCK.  
OVERLAP ENDS OF SOCK PER MANUFACTURERS  
RECOMMENDATIONS (12" MIN., 36" MAX.).  
USE 8" TO 12" DIA SOCK ON CURBSIDE IN  
TRAFFIC AREAS.  
USE 12" TO 18" DIA SOCK IN NON-TRAFFIC AREAS  
OR AREAS WHERE THE LARGER SOCKS CAN BE  
USED SAFELY.  
USE SYNTHETIC MESH SOCKS FOR TEMPORARY  
INSTALLATIONS.



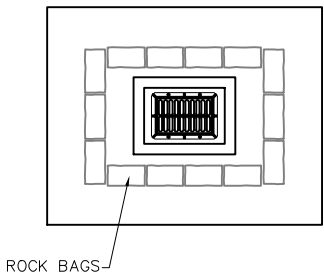
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



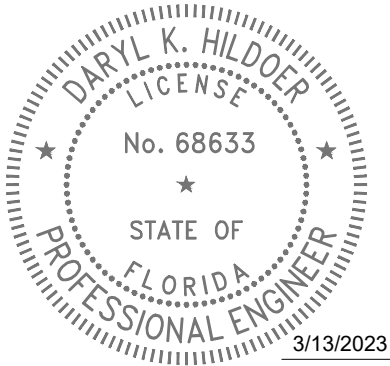
SWALE INLET

PROTECTION ALONG INLETS WITH ROCK BAGS BALES  
OR APPROVED ALTERNATIVES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS:

- 1- TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2- BALES SHALL BE ANCHORED WITH TWO (2) 1"x2" (or 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.
- 3- RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAYBE USED IF APPROVED BY THE ENGINEER.
- 4- ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
- 5- WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

INLET PROTECTION SYSTEM (TYP.)  
OR APPROVED ALTERNATIVE



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NE 90 ST AND NE 10 AVE  
PIPE CONNECTION  
DRAINAGE IMPROVEMENT PROJECT

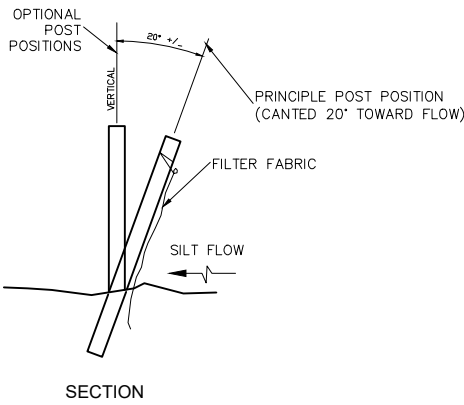
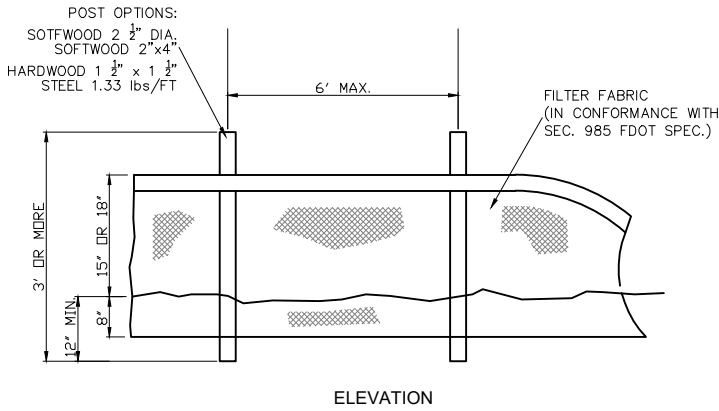
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	I. ROBERTO	02-15-23		M. CEDRON	02-15-23
CHECKED BY	F. GONZALEZ	02-15-23	CHECKED BY	I. ROBERTO	02-15-23
SUPERVISED BY:					



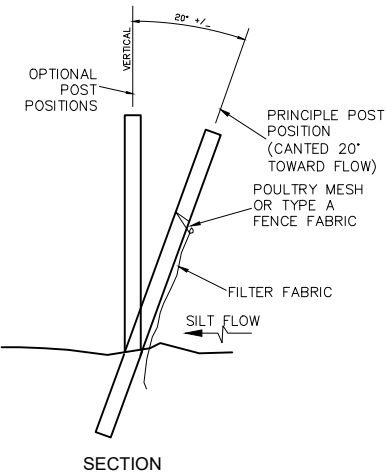
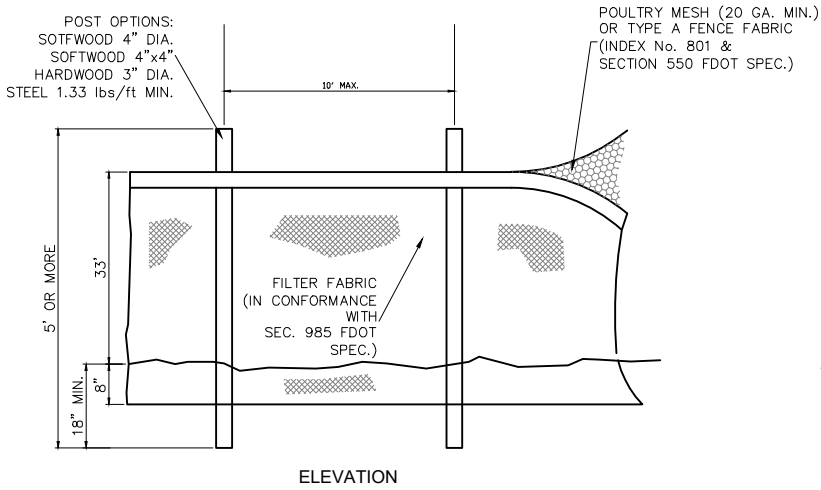
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

INLET PROTECTION SYSTEMS DETAILS

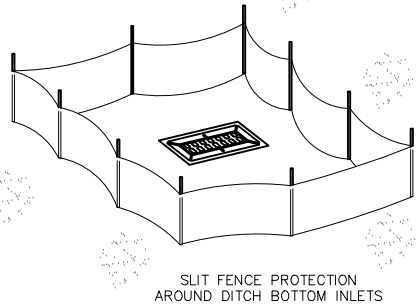
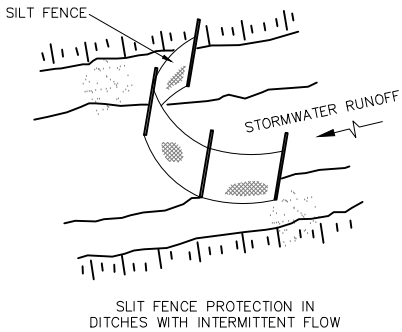
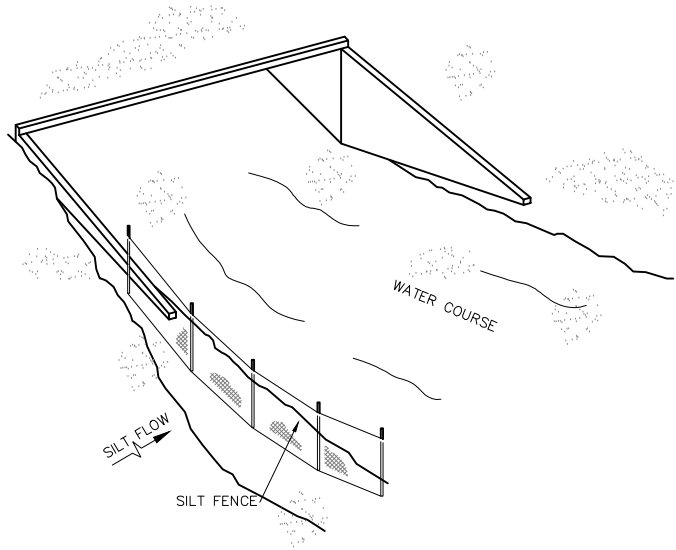




TYPE III SILT FENCE (TYP.)



TYPE IV SILT FENCE (TYP.)

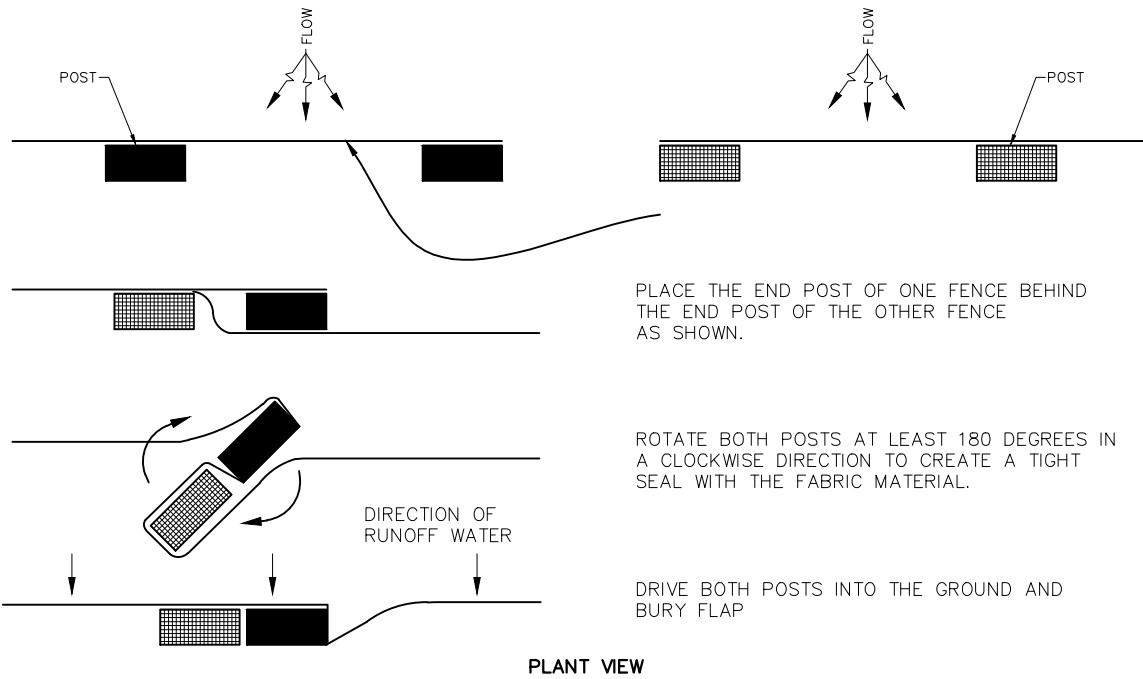


SILT FENCE APPLICATIONS (TYP.)

NOTES FOR SILT FENCES:

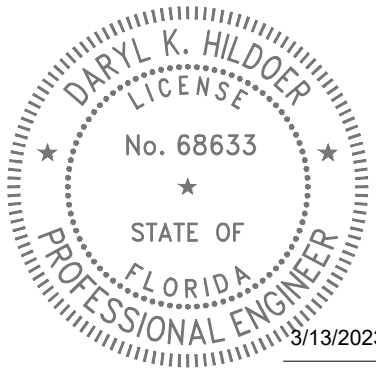
- 1- TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2- TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.

SEDIMENT BARRIERS (TYP.)  
OR APPROVED ALTERNATIVE



JOINING TWO SILT FENCES (TYP.)

- 3- DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
- 4- WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.



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STEPHEN P. CLARK, CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

SEDIMENT BARRIERS DETAILS



