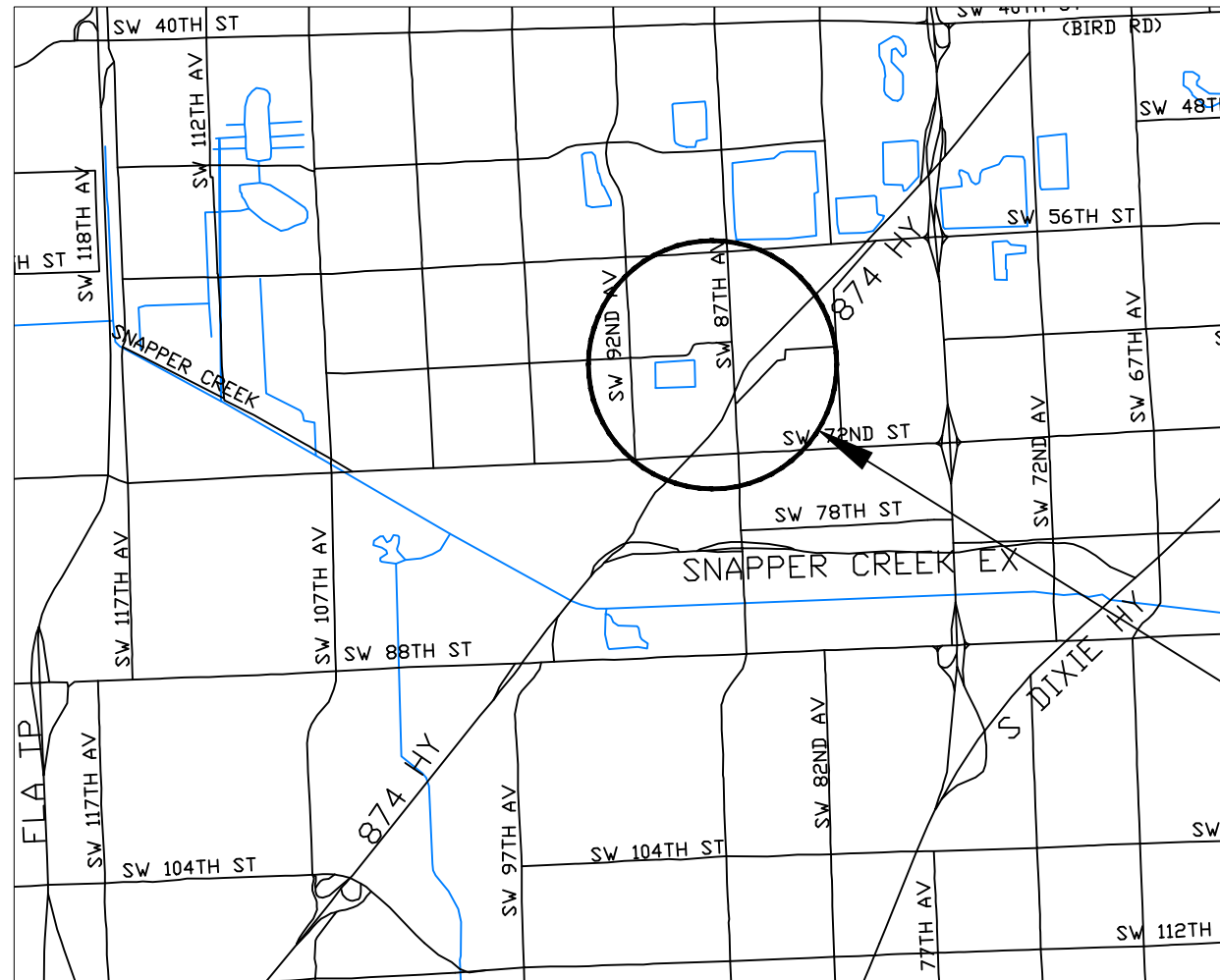


INDEX OF SHEETS

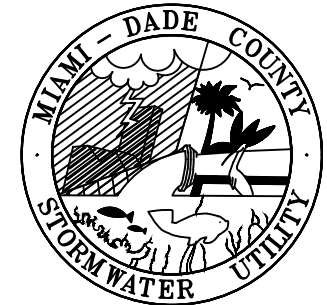
SHT. No.	SHEET DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SURVEYOR'S NOTES, KEY SHEET, LEGEND AND ABBREVIATIONS
4-7	DRAINAGE PLAN
8	PROPOSED DRAINAGE STRUCTURE TABLE, CONFLICT TABLE AND SUMMARY OF QUANTITIES
9-10	STANDARD DETAILS
11	SEDIMENT BARRIERS DETAILS
12	INLET PROTECTION SYSTEMS DETAILS
13	STORMWATER POLLUTION PREVENTION PLAN

PLANS FOR PROPOSED  
DRAINAGE IMPROVEMENTS TO  
SW 89 CT AND SW 68 ST  
WELLFIELD SOLUTION  
MIAMI-DADE COUNTY PROJECT NO. 20190264  
FUNDING SOURCE: STORMWATER UTILITY



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

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

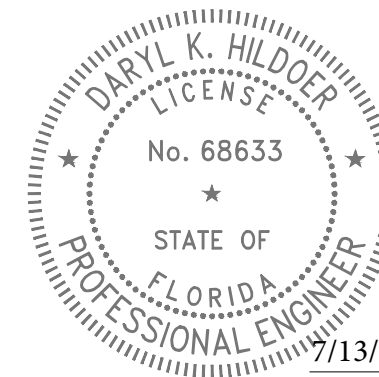


PREPARED BY



MIAMI-DADE COUNTY DEPARTMENT OF  
TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STORMWATER DRAINAGE DESIGN SECTION

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



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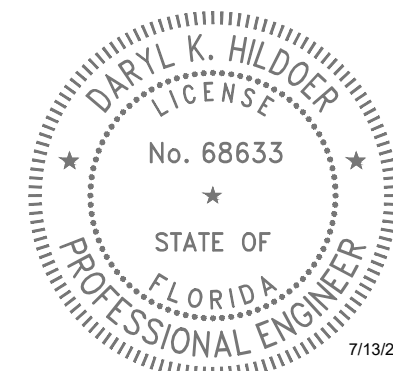
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DESIGN	F.G.	CHECK	D.H.
		DRAWN	F.C./H.S.
DATE	04-22-22	SHEET	1 OF 13

**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 THESE 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 TEMPORARILY 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 DEPARTMENT 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.



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**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

SW 89 CT AND SW 68 ST  
WELLFIELD SOLUTION

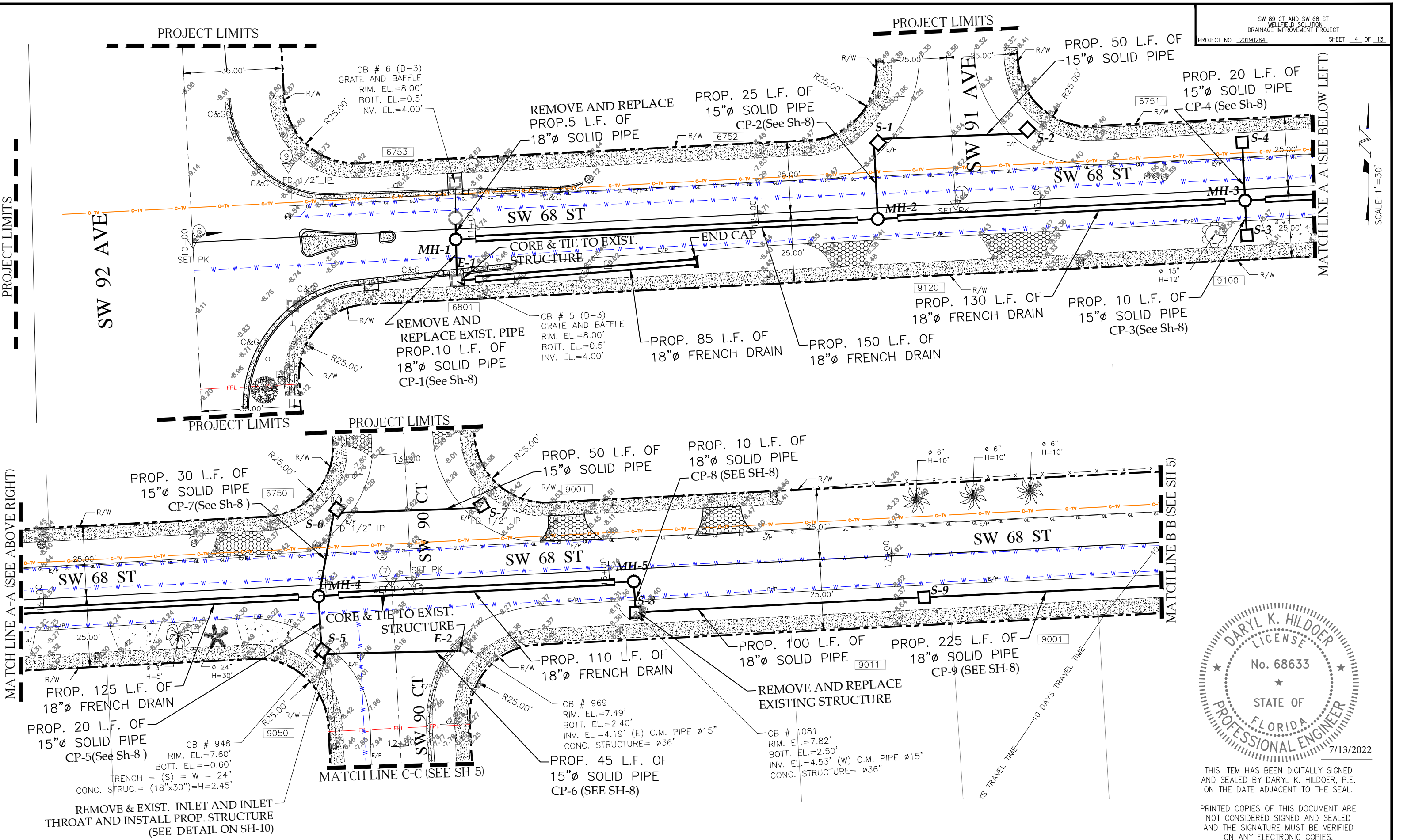
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CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	D.H.	04-22-22		F.G.	04-22-22
SUPERVISED BY:					



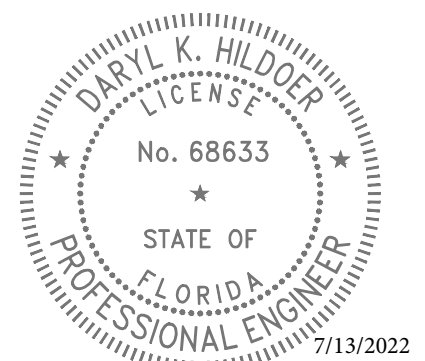
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 11 ST  
MIAMI, FLORIDA 33128

GENERAL NOTES





SCALE: 1" = 30'



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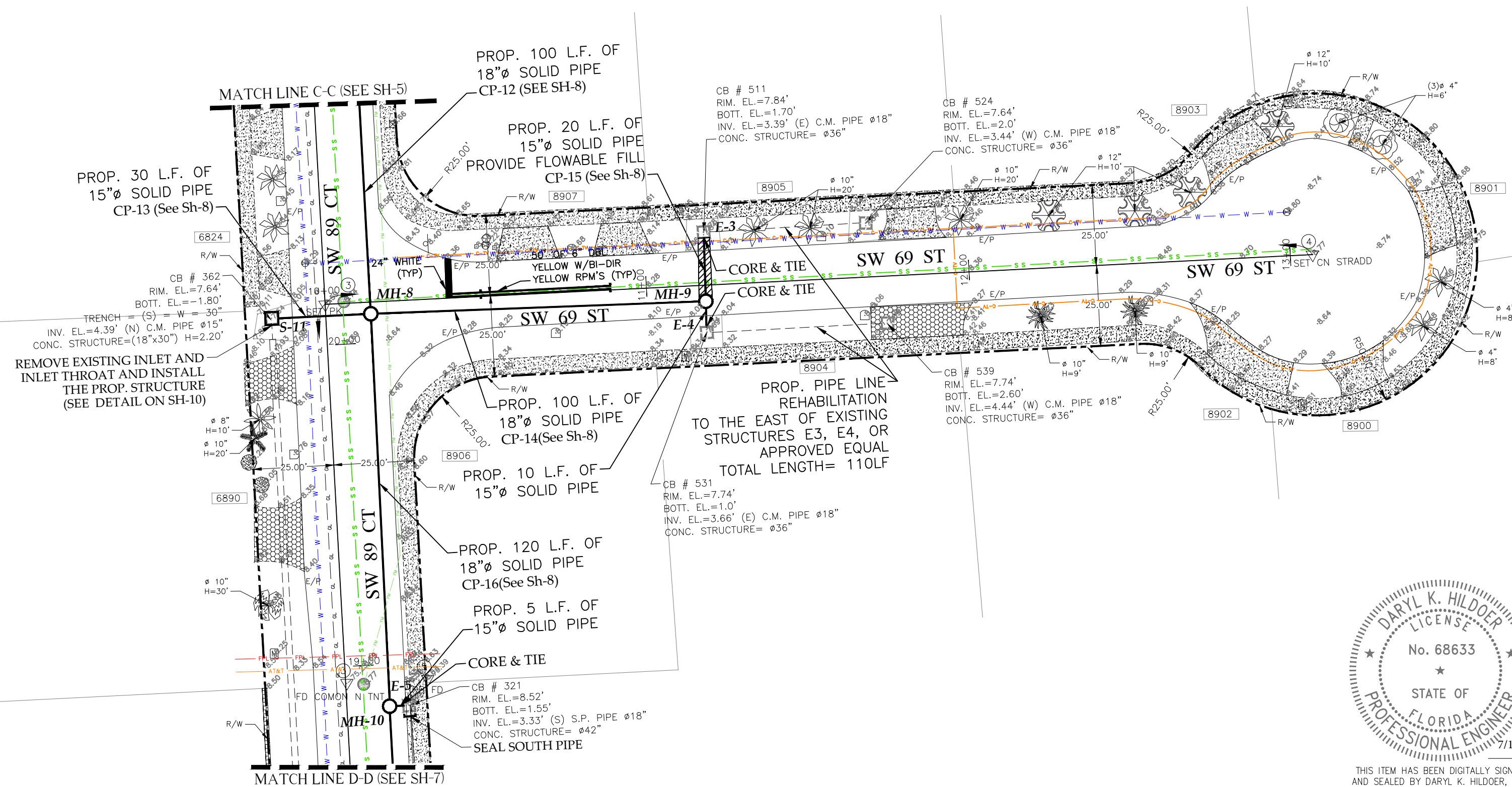
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CHECKED BY	D.H.	04-22-22	CHECKED BY	F.G.	04-22-22
SUPERVISED BY					



DRAINAGE PLAN



SCALE: 1" = 30'



DARYL K. HILDOER  
LICENSE  
No. 68633  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
7/13/2022

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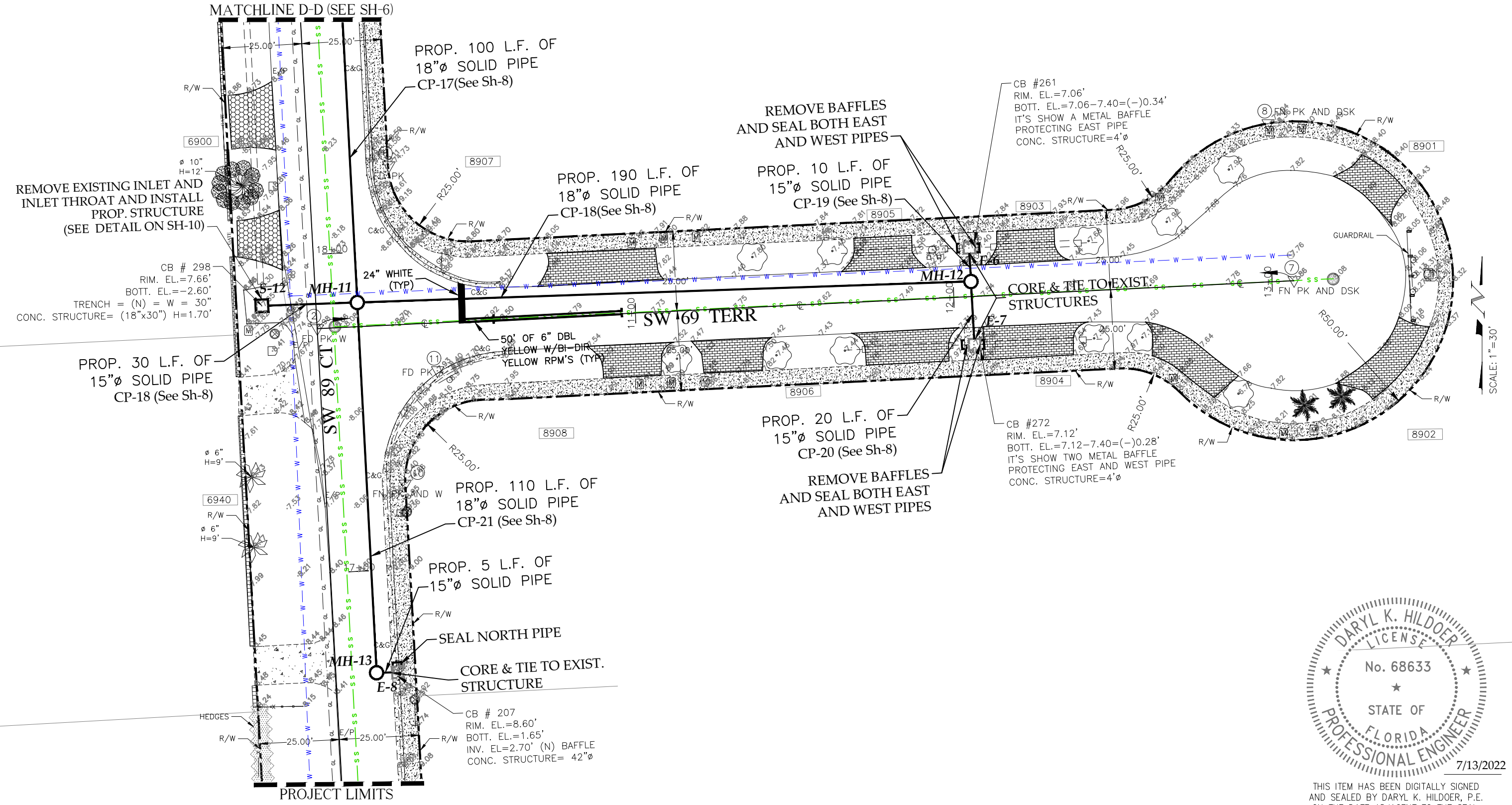
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY	F.G.	DATE	04-22-22	DRAWN BY	F.C./H.S.
CHECKED BY	D.H.	DATE	04-22-22	CHECKED BY	F.G.
SUPERVISED BY:					

MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 SW 8 ST  
MIAMI, FLORIDA 33128

DRAINAGE PLAN



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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

SW 89 CT AND SW 68 ST  
WELLFIELD SOLUTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	F.G.	04-22-22		F.C./H.S.	04-22-22
CHECKED BY	D.H.	04-22-22	CHECKED BY	F.G.	04-22-22
SUPERVISED BY					

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

DRAINAGE PLAN

**PROPOSED DRAINAGE STRUCTURE SCHEDULE**

Structure	Station	Type of Structure	Inside Dimension	Rim Elevation	Bottom Elevation	Pipe Invert Elevation				Remarks
						N	S	E	W	
MH-1	10+92 (4.0' RT)	P-7I	42" φ	8.7	2.0	5.0	5.0	4.0		
E-1	10+92 (18.0' RT)	Existing CB	Core and Tie to the East wall of the structure					5.0		Existing catch basin to remain
MH-2	12+42 (4.0' RT)	P-7I	42" φ	8.6	-0.5	1.5		4.0	4.0	
S-1	12+42 (23.0' LT)	D-3	36" φ	8.0	-0.5		1.5	4.5		
S-2	12+98 (23.0' LT)	D-3	36" φ	8.0	2.5				4.5	
MH-3	13+73 (4.0' RT)	P-7I	42" x 42"	8.4	-0.5	1.5	5.0	4.0	4.0	
S-3	13+73 (16.0' RT)	D-1	17" x 27"	8.0	3.0	5.0				
S-4	13+73 (17.0' RT)	D-1	17" x 27"	8.2	-0.5		1.5			
MH-4	14+97 (4.0' RT)	P-7I	42" x 42"	8.4	-0.5	1.5	4.8	4.0	4.0	
S-5	14+97 (23.0' RT)	D-3	36" φ	7.6	2.8	4.8		4.8		
E-2	15+48 (23.0' RT)	Existing CB	Core and Tie to the West wall of the structure						4.8	Existing catch basin to remain
S-6	15+05 (25.0' LT)	D-3	36" φ	8.0	-0.5		1.5	5.0		
S-7	15+56 (25.0' LT)	D-3	36" φ	8.0	3.0				5.0	
MH-5	16+09 (4.0' RT)	P-7I	42" φ	8.6	2.0		4.8		4.0	
S-8	16+09 (15.0' RT)	D-3	36" x 36"	8.0	2.5	4.8		4.5		
S-9	17+11 (15.0' RT)	D-3	36" φ	8.2	1.5		3.5		4.5	
MH-6	19+33 (15.0' RT)	P-7I	42" φ	8.6	0.5		3.0		2.5	
MH-7	21+03 (13.0' RT)	P-7I	42" φ	8.6	0.0	3.0	3.0		2.0	
S-10	21+03 (13.0' LT)	D-3	36" φ	7.8	0.0			2.0		
MH-8	20+08 (13.0' RT)	P-7I	42" φ	8.7	0.0	3.0	2.8	5.0	2.0	
S-11	20+08 (16.0' LT)	D-3	36" φ	7.7	0.0			2.0		
MH-9	11+18 (5.0' RT)	P-7I	42" φ	8.3	2.5	5.7	4.5		4.8	
E-3	11+19 (17.0' LT)	Existing CB	Core and Tie to the South wall of the structure				5.7			Existing catch basin to remain
E-4	11+18 (15.0' RT)	Existing CB	Core and Tie to the North wall of the structure			4.5				Existing catch basin to remain
MH-10	18+87 (13.0' RT)	P-7I	42" φ	8.7	0.3	2.3	2.5	5.0		
E-5	18+87 (18.0' RT)	Existing CB	Core and Tie to the West wall of the structure						5.0	Existing catch basin to remain
MH-11	17+84 (13.0' RT)	P-7I	42" x 42"	8.7	0.0	2.5	2.5	2.5	2.0	
S-12	17+84 (17.0' LT)	D-3	36" φ	7.7	0.0			2.0		
MH-12	12+06 (5.0' LT)	P-7I	42" φ	7.6	0.8	4.0	2.8		2.8	
E-6	12+06 (15.0' LT)	Existing CB	Core and Tie to the South wall of the structure				4.0			Existing catch basin to remain
E-7	12+06 (15.0' RT)	Existing CB	Core and Tie to the North wall of the structure			2.8				Existing catch basin to remain
MH-13	16+68 (13.0' RT)	P-7I	42" φ	8.7	1.0	3.0		5.0		
E-8	16+68 (18.0' RT)	Existing CB	Core and Tie to the West wall of the structure						5.0	Existing catch basin to remain

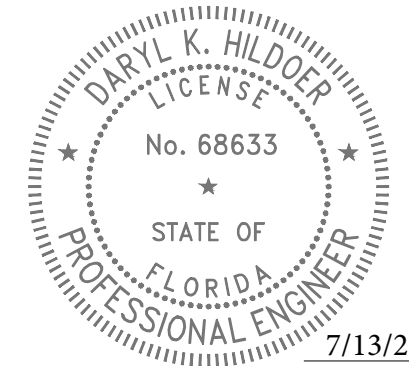
**SUMMARY OF QUANTITIES**

Item No.	Description	Unit	Quantity
102-74-1	Barricades (Temporary - Types I, II, VP and Drum)	E.A./day	7200
102-76A	Advance Warning Arrow Panel	E.A./day	360
104-10-3	Sediment Barrier	L.F.	100
104-18	Inlet Protection System	E.A.	21
121-70-2	Flowable Fill	C.Y.	10
327-70-01	Milling, 1" Average Depth	S.Y.	1700
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.	1260
331-72-10B-HMA	Inlet Pavement (Includes 6" Limerock Base and 1" thick of HMA, Asphalt Work Category 2)	S.Y.	180
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	260
334-2-13-1A	Driveway Pavement - Asphalt	S.Y.	45
400-1-15	Class I Concrete [(Miscellaneous) (Trench build-up, collars, pipe plugs, structure plugs etc.) (This item is contingent upon field conditions and may increased decreased or eliminated by the Engineer)]	C.Y.	15
425-1-1	Swale Inlet Type D-3 (36" Dia.) (Less than 10 feet deep)	E.A.	9
425-1-2A	Swale Inlet Type D-3 (36" X 36") (Less than 10 feet deep)	E.A.	1
425-1-2B	Swale inlet Type D-1 (17"x27") (< 10' deep)	E.A.	2
425-2-41	Manhole (Type P-7I, Any dimension, maximum 15' deep)	E.A.	13
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.	8
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.	8
430-94-1-1	Desilting Pipe, 0 - 48"	L.F.	200
430-95-2	Desilting Drainage Structure	E.A.	12
430-171-115	Pipe Culvert - 15" Diameter (Round)	L.F.	400
430-171-118	Pipe Culvert - 18" Diameter (Round)	L.F.	1265
431-1-4	Pipe lining rehabilitation (various diameters)	L.F.	110
443-70-3-2	French Drain (18" diameter pipe, trench depth 10 ft bls)	L.F.	600
520-1-10	Concrete Curb and Gutter (Type F) (6" Curb, 18" Gutter) ( Includes cost of limerock base and subgrade)	L.F.	40
520-1-15A	Concrete Valley Gutter (Variable width) (Including base preparation)	L.F.	20
522-1(1)	Concrete Sidewalk (4" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	80
522-2	Concrete Sidewalk (6" thick)(3000 P.S.I.)(Including pedestrian ramps and sidewalk curbs)	S.Y.	40
527-2	Detectable Warning on Walking Surface	S.F.	80
530-1	Riprap (Sand Cement)	C.Y.	15
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.	800
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional, all colors)	E.A.	20
711-11-123	Thermoplastic ( White)(Solid)(12")	L.F.	100
711-11-125	Thermoplastic ( White)(Solid)(24")	L.F.	80
711-11-221	Thermoplastic ( Yellow)(Solid)(6")	L.F.	300

**CONFLICT TABLE**

Conflict Point	DRAINAGE		WATER		SEWER		ATT		GAS		FPL	
	Invert Elevation	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.
CP-1	+5.0	18"	+4.5	96"					(A)+6.0	2"	(A)+6.0	4"
CP-2	+1.5	15"	+4.3	12"					(A)+6.0	2"	(A)+6.0	4"
CP-3	+5.0	15"	+4.5	96"					(A)+6.0	2"	(A)+6.0	4"
CP-4	+1.5	15"	+4.5	12"					(A)+6.0	2"	(A)+6.0	4"
CP-5	+4.8	15"	+4.2	96"								
CP-6	+4.8	15"	(A)+4.2	8"								
CP-7	+1.5	15"	+4.3	12"					(A)+6.0	2"	(A)+6.0	4"
CP-8	+4.8	15"	+4.2	96"								
CP-9	+2.5	15"	(A)+5.2	8"					(A)+6.2	4"		
CP-10	+3.0	18"			+5.7	8"					(A)+6.2	2"
CP-11	+2.0	15"	(A)+4.5	8"	+5.0	8"			(A)+5.6	4"		
CP-12	+3.0	18"	(A)+5.0	8"	+5.0	8"						
CP-13	+2.0	15"	(A)+4.5	8"	+4.5	8"			(A)+5.6	4"		
CP-14	+5.0	18"			+4.5	6"						
CP-15	+5.7	15"	+3.5	8"	+5.1	8"	(A)+5.0	2"				
CP-16	+2.3	18"			+4.8	6"	(A)+6.2	2"			(A)+6.2	2"
CP-17	+2.5	18"	(A)+5.0	8"								
CP-18	+2.0	15"	(A)+4.5	8"	(A)+4.5	8"			(A)+5.5	4"		
CP-19	+4.0	15"	(A)+3.5	6"								
CP-20	+2.8	15"			(A)+5.2	8"						
CP-21	+2.5	18"	(A)+5.2	8"								

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



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**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

SW 89 CT AND SW 68 ST  
WELLFIELD SOLUTION

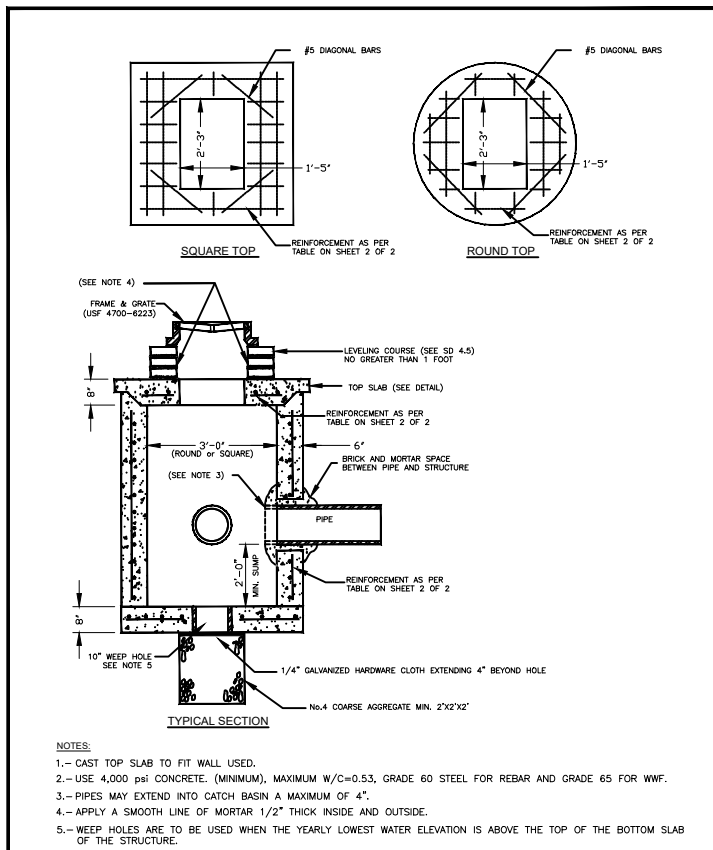
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
F.G.	F.G.	04-22-22	F.C./H.S.	F.C./H.S.	04-22-22
CHECKED BY	D.H.	04-22-22	CHECKED BY	F.G.	04-22-22



PROPOSED DRAINAGE STRUCTURE TABLE, CONFLICT TABLE AND SUMMARY OF QUANTITIES

S:\Hector\Frank\_Gonzalez\WELLFIELD\_SOLUTION\WELLFIELD\_SOLUTION\DRAINAGE\_PLAN\PROJECT\SH-8\_STRUCTURE\_TABLES.dwg May 25, 2022 - 5:04pm E139108





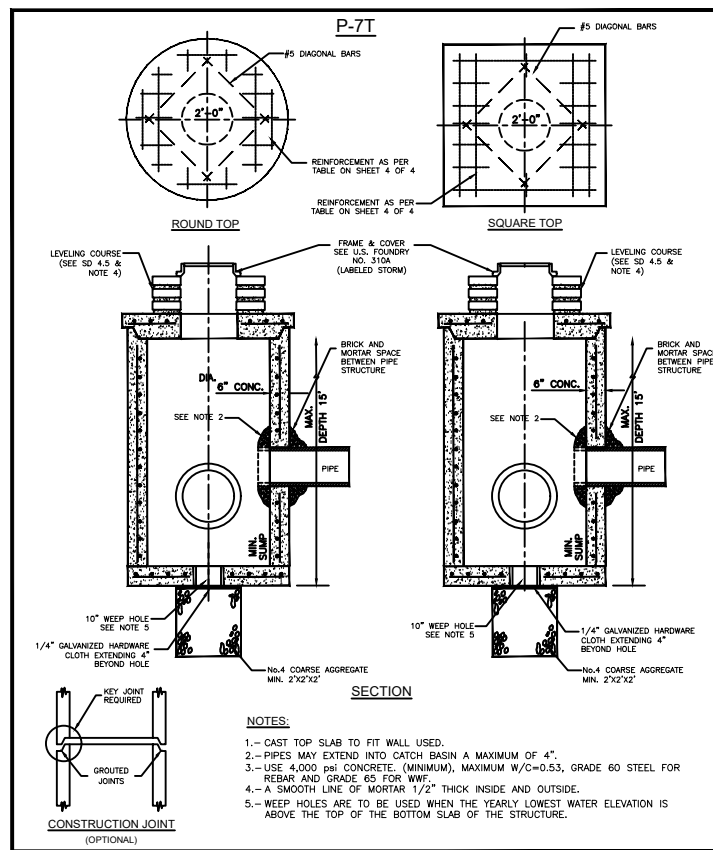
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	6/8/2018	9/8/2018 9/26/2018 9/26/2018 3/2/2011 3/2/2011	PRECAST CATCH BASIN (D-3)	2.2
				SHEET 1 OF 2

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"H #4@10"V	8	#4@5" E.W.	8	#4@10" E.W.
2.2	3	3	5.1 - 10.0	6	#4@7.5"H #4@10"V	8	#4@5" E.W.	8	#4@10" E.W.
2.2	3	3	10.1-15.0	6	#5@7.5"H #4@10"V	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	8 X 8 W20 #4@10"E.W.	8	#4@5" E.W.	8	#4@10" E.W.	
2.2	3	5.1 - 15.0	6	8 X 8 W20 #4@10"E.W.	8	#4@5" E.W.	8	#4@10" E.W.	

MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	6/8/2018	9/8/2018	PRECAST CATH BASIN (TYPE D-3)	2.2
				SHEET 2 OF 2



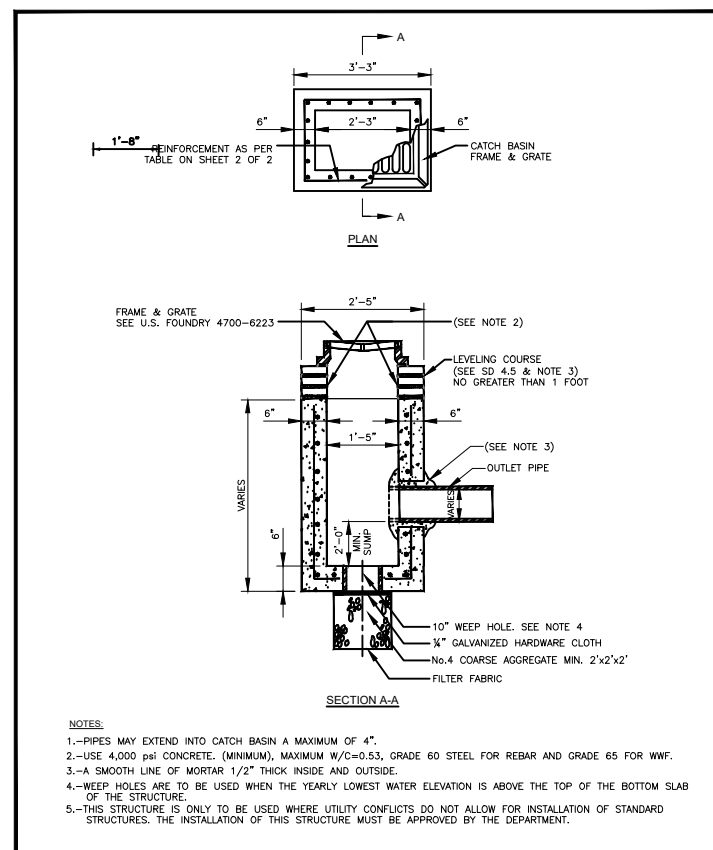
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	6/8/2018	9/8/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 1 OF 4

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@6.5" E.W.	8.0	#4@10" E.W.

ROUND STRUCTURE									
Standard Detail	Dia. (ft)	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@6.5" E.W.	8.0	#4@10" E.W.

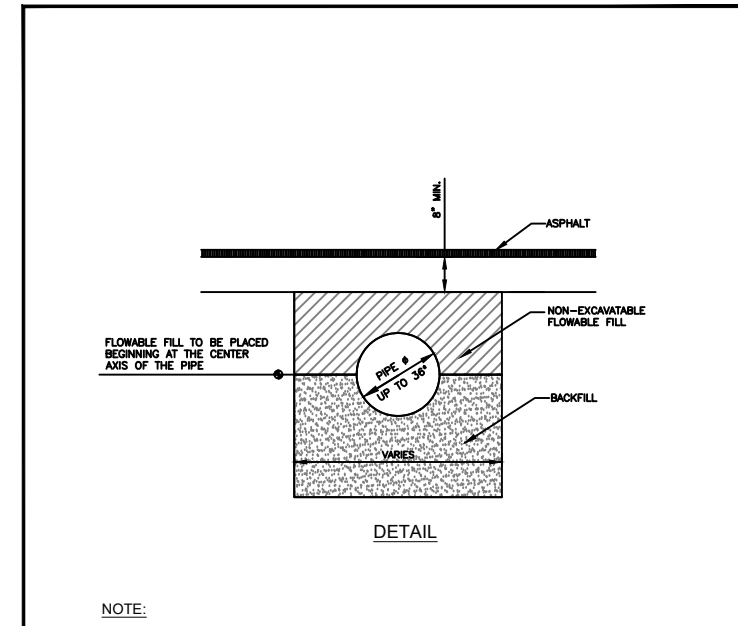
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	6/8/2018	9/8/2018	MANHOLE AND INLET (TYPE P)	2.7
				SHEET 4 OF 4



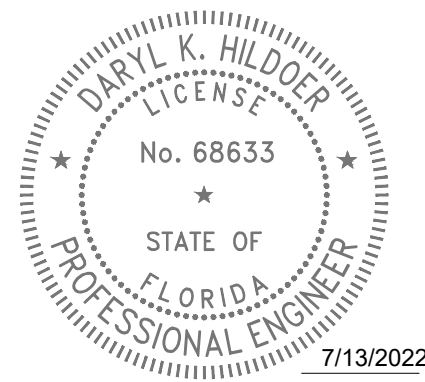
MIAMI-DADE COUNTY	APPROVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	6/8/2018	9/8/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 1 OF 2

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@6"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	6/8/2018	9/8/2018	SWALE INLET (TYPE D-1)	3.1
				SHEET 2 OF 2



MIAMI-DADE COUNTY	APPROVED	REVISED	NON-EXCAVATABLE FLOWABLE FILL DETAIL FOR WASD CROSSING WITH LESS THAN 3 FEET OF COVER	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	A.B.	9-22-18 9-27-12		0.0
				SHEET 1 OF 1



7/13/2022  
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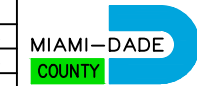
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REVISIONS

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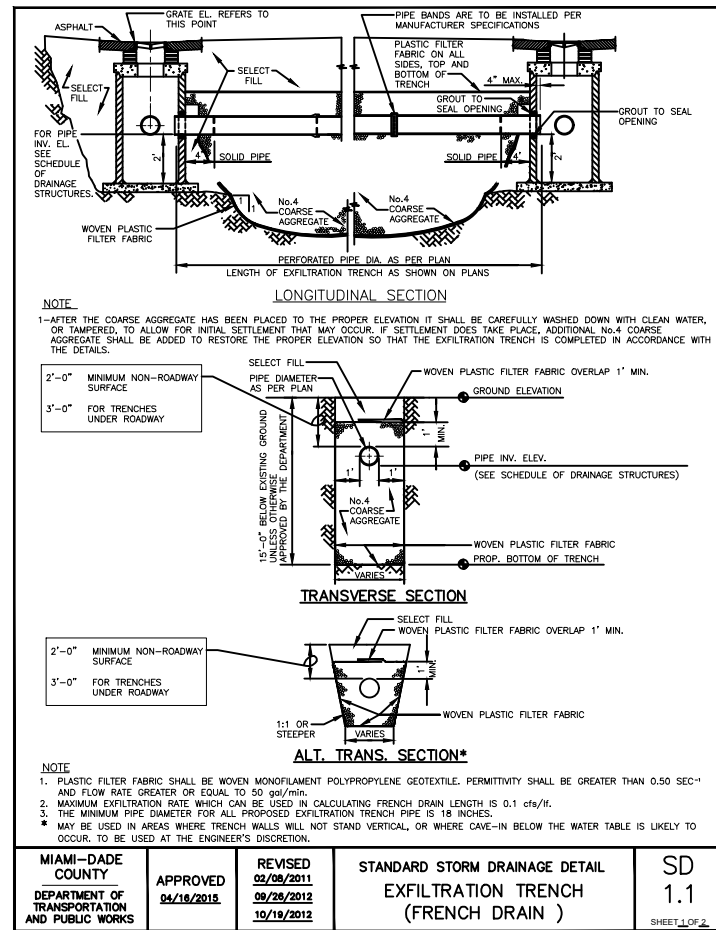
SW 89 CT  
FROM SW 68 ST TO SW 72 ST

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	F.G.	4-22-22		F.C./H.S.	4-22-22
CHECKED BY	D.H.	4-22-22	CHECKED BY	F.G.	4-22-22
SUPERVISED BY	L.H.				



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

STANDARD DETAILS



MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/18/2018	REVISED 02/09/2011 09/28/2012 10/19/2012	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN)	SD 1.1
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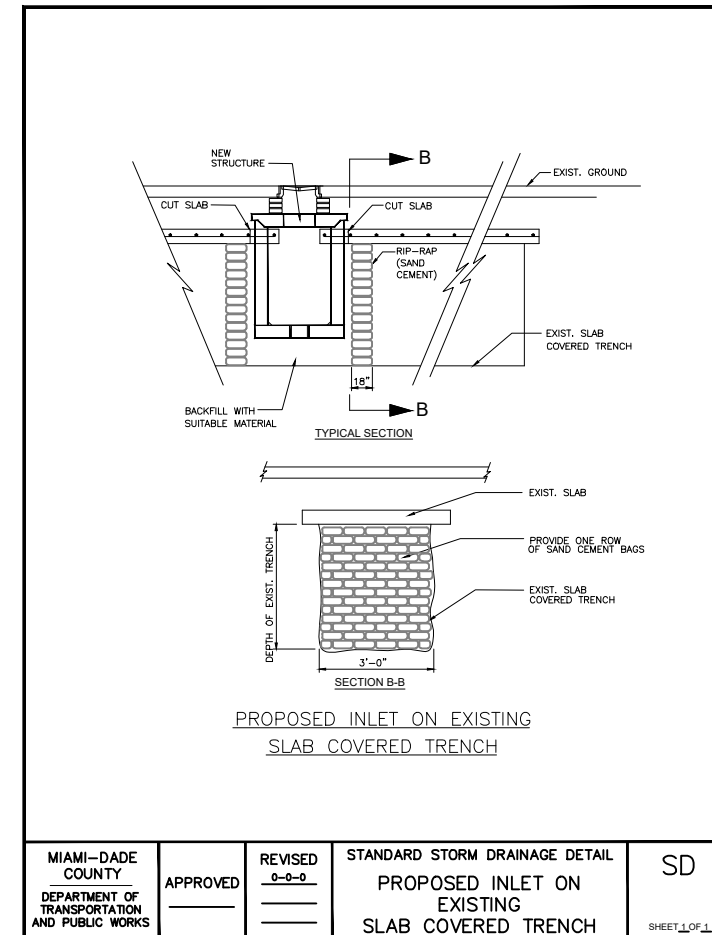
**GENERAL NOTES FOR PIPE CULVERTS**

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

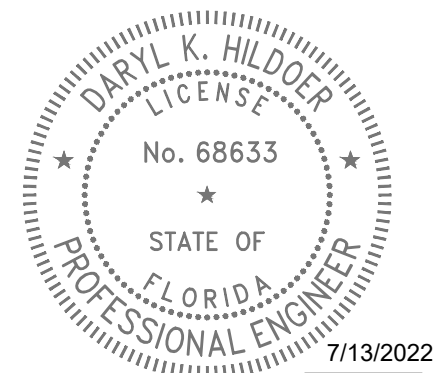
PIPE DIAMETER (inches)	OUTER SHELL	LINER
	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
36	240	120
42	275	140
48	315	150
54	355	180
60	395	200
72	470	235
84	550	275

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

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/18/2018	REVISED 08-04-88 10-22-13 05-02-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1
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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED	REVISED 0-0-0	STANDARD STORM DRAINAGE DETAIL PROPOSED INLET ON EXISTING SLAB COVERED TRENCH	SD
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

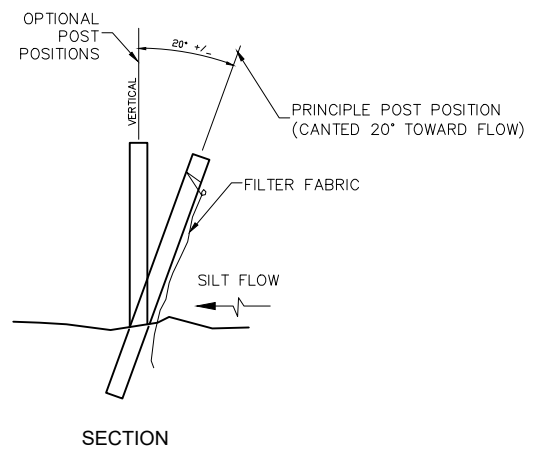
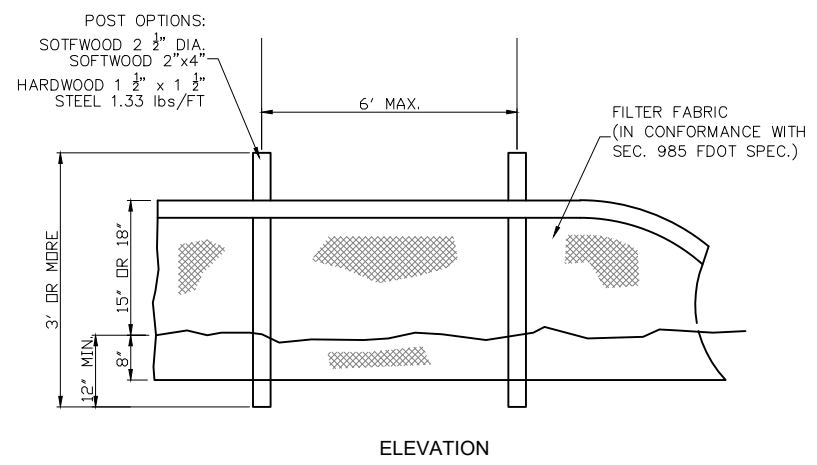
SW 89 CT  
FROM SW 68 ST TO SW 72 ST

DESIGNED BY	F.G.	DATE	4-22-22	DRAWN BY	F.C./H.S.	DATE	4-22-22
CHECKED BY	D.H.	DATE	4-22-22	CHECKED BY	F.G.	DATE	4-22-22
SUPERVISED BY	L.H.	DATE					

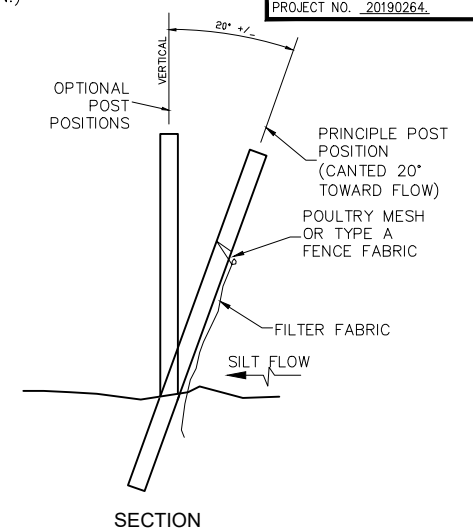
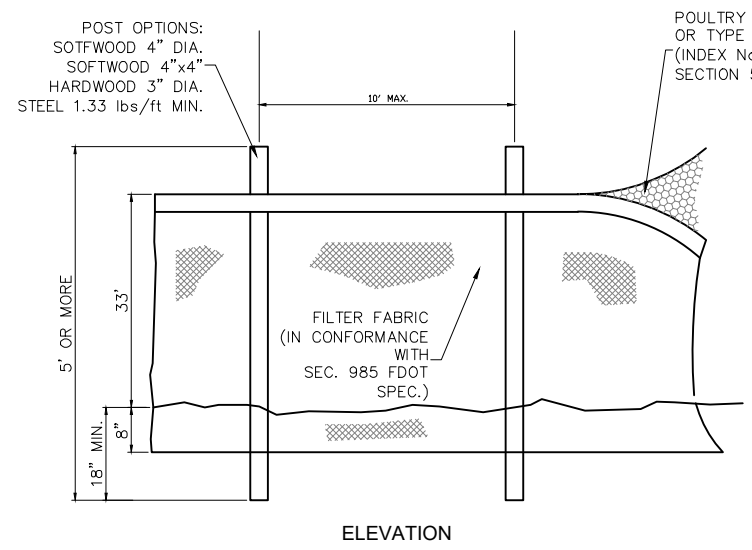
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 11 ST  
MIAMI, FLORIDA 33128

STANDARD DETAILS

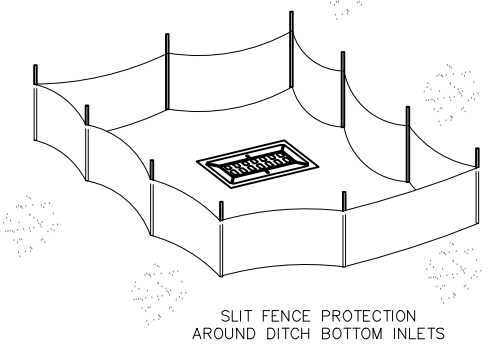
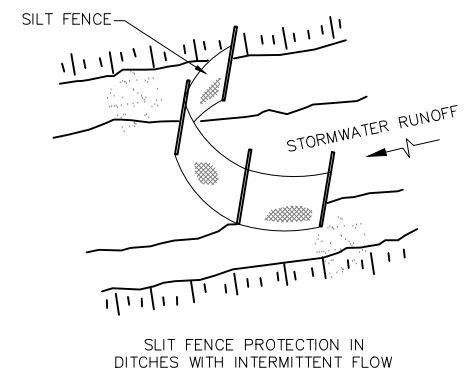
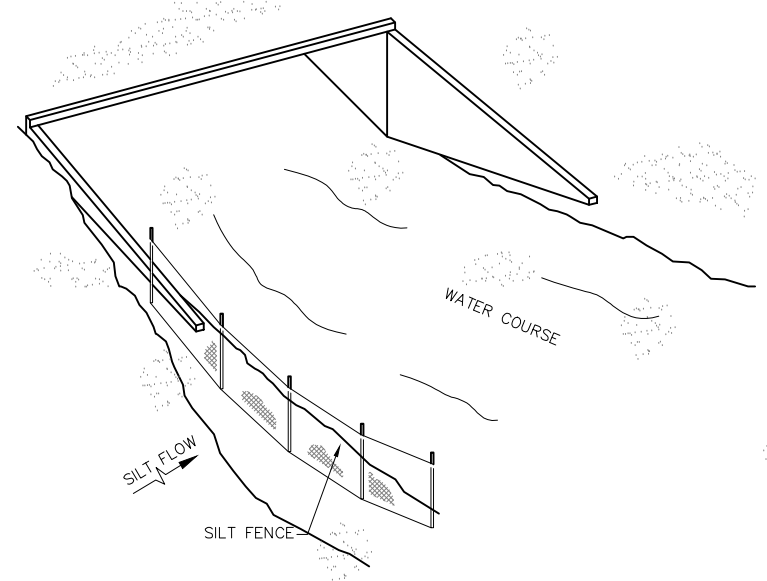
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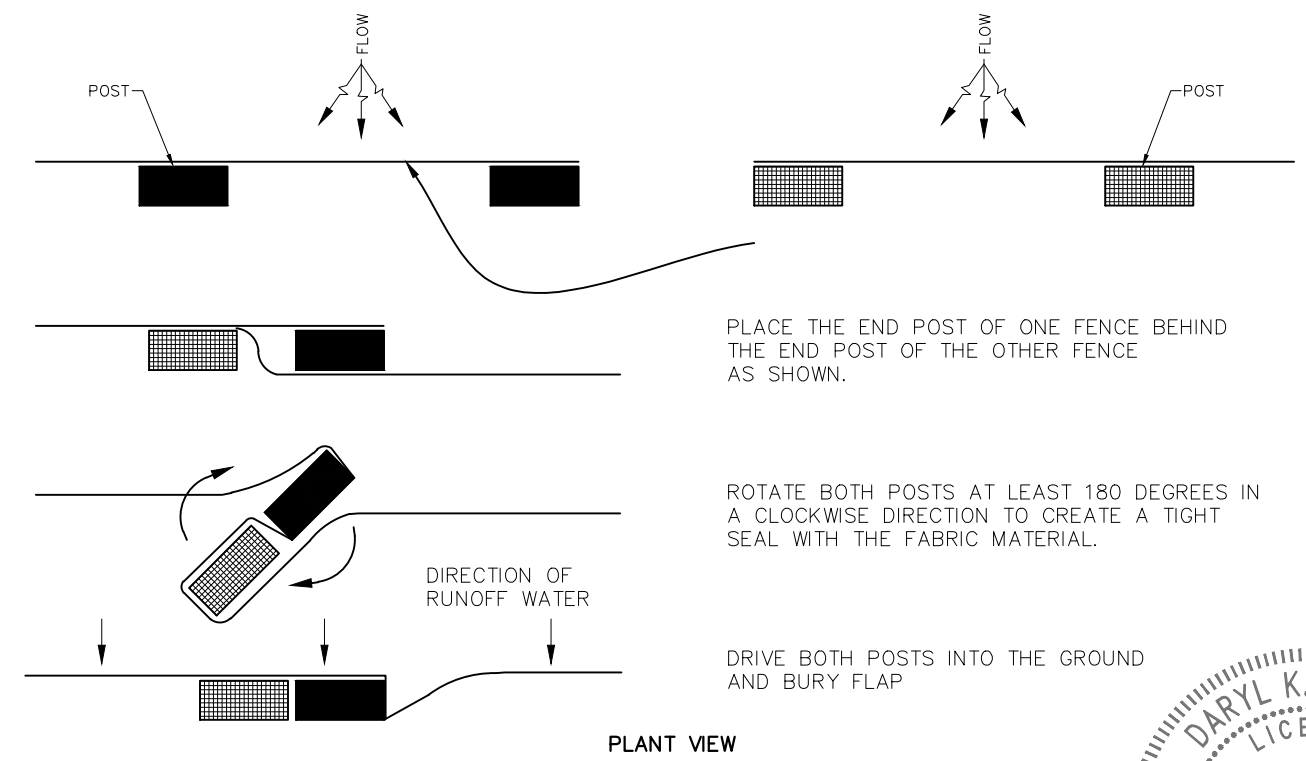
TYPE III SILT FENCE (TYP.)



TYPE IV SILT FENCE (TYP.)



SILT FENCE APPLICATIONS (TYP.)



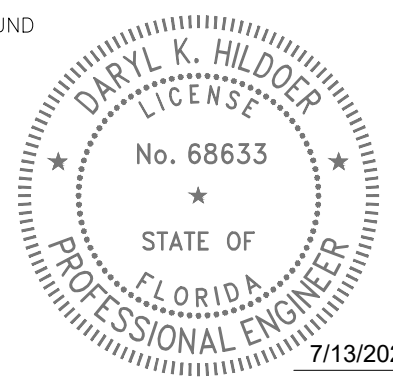
JOINING TWO SILT FENCES (TYP.)

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.

- 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.

SEDIMENT BARRIERS (TYP.)  
OR APPROVED ALTERNATIVE



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

SW 89 CT AND SW 68 ST  
WELLFIELD SOLUTION

NAME	DATE	NAME	DATE
DESIGNED BY: I.N.	12-09-19	DRAWN BY: F.C./H.S.	
CHECKED BY: F.G.	12-09-19	CHECKED BY: I.N.	
SUPERVISED BY:			



SEDIMENT BARRIERS DETAILS



