

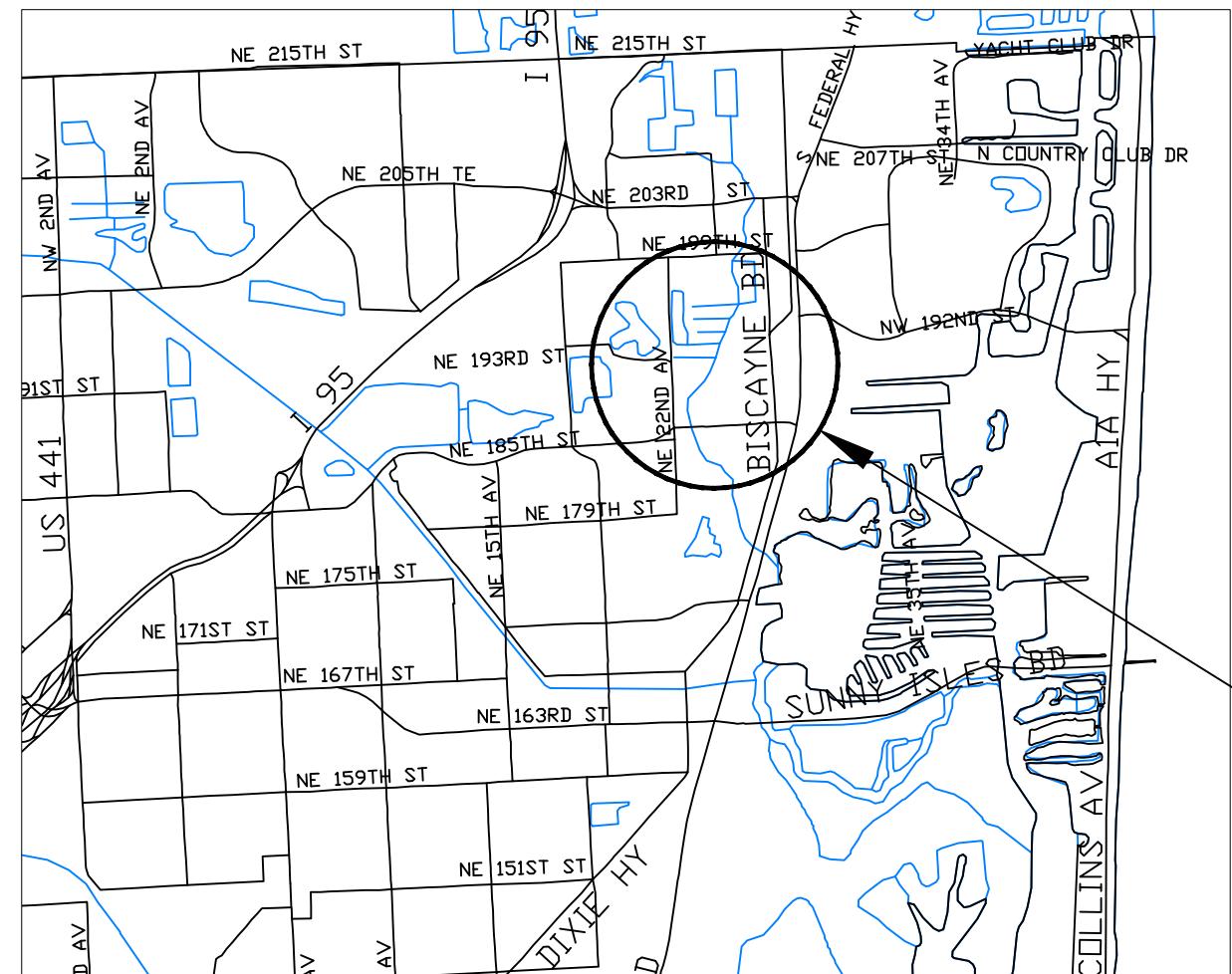
PLANS FOR PROPOSED  
DRAINAGE IMPROVEMENTS TO

INDEX OF SHEETS

SHT. No. SHEET DESCRIPTION

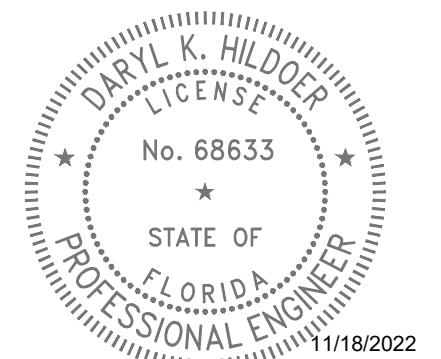
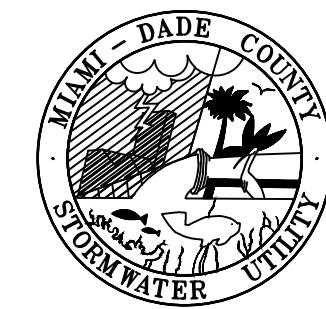
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MIAMI-DADE COUNTY PROJECT NO.20210236  
FUNDING SOURCE: STORMWATER UTILITY

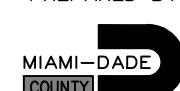


NOTE:

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.



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.



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

DESIGN	M.C.	CHECK	F.G.
DRAWN			H.S.
DATE	08-04-22	SHEET	1 OF 9

**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 WHICH 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 JURISDICTION 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 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  $\frac{1}{2}$ " PERFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.

43. THE SIDEWALK AT DRIVEWAY TURNTOWNS 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 ITS 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.

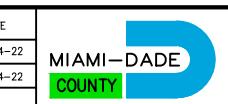
47. FOR THE INSTALLATION OF SOD IN SWALE AREAS ADJACENT TO ROADWAYS, SIDEWALKS, DRIVEWAY APPROACHES OR ANY OTHER PAVED SURFACES, THE SWALE MUST BE RESTORED TO FORM A "V" SHAPE AS PER THE DETAILS INCLUDED IN THE MIAMI DADE COUNTY PUBLIC WORKS MANUAL. SPECIFICALLY, THE ELEVATION OF THE TOP OF THE SOD MUST 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.

## REVISIONS

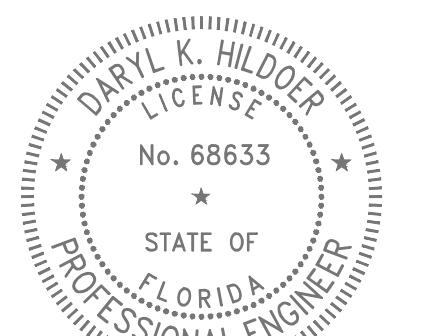
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NE 26 CT FROM  
NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

DESIGNED BY	M.C.	DATE	08-04-22	DRAWN BY	H.S.	DATE	08-04-22
CHECKED BY	F.G.	DATE	08-04-22	CHECKED BY	M.C.	DATE	08-04-22
SUPERVISED BY:							

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 15 ST  
MIAMI, FLORIDA 33128

GENERAL NOTES

THIS ITEM HAS BEEN DIGITALLY SIGNED  
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ON THE DATE ADJACENT TO THE SEAL.PRINTED COPIES OF THIS DOCUMENT ARE  
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## SURVEYOR'S NOTES:

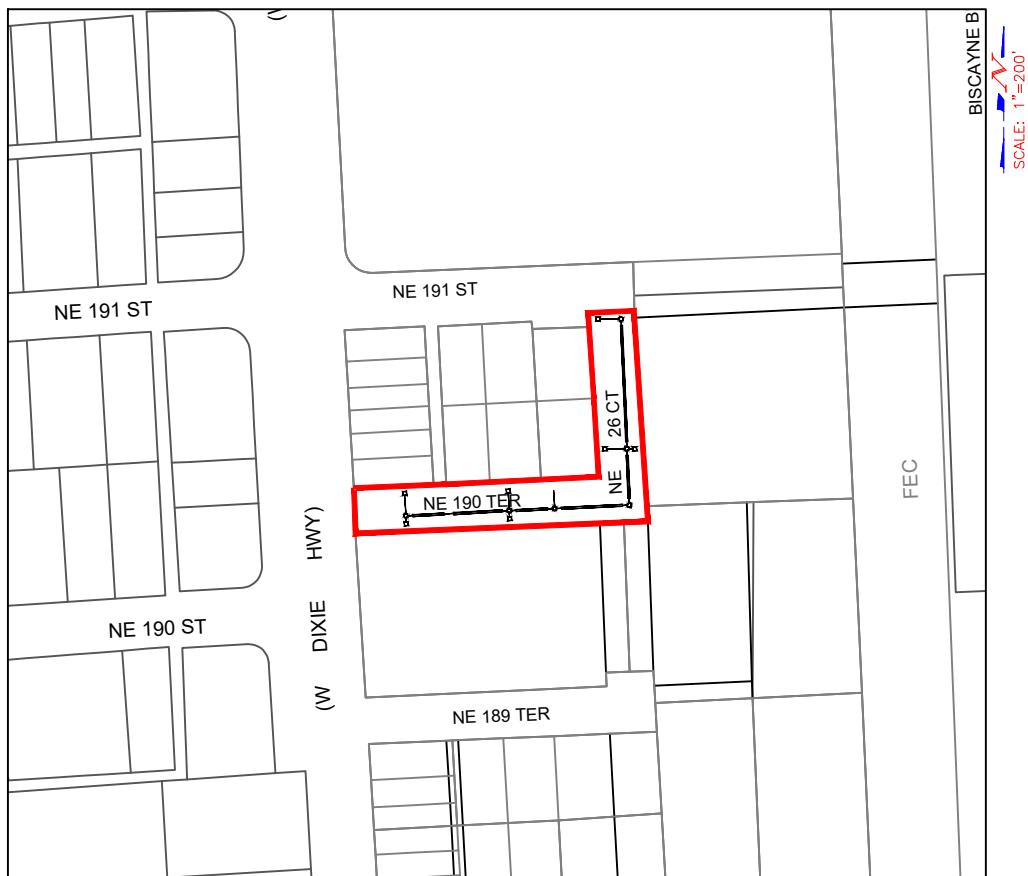
- Survey performed by DTPW Survey Section.
- Survey Date: 2/1/2021
- Survey as per F.B. 2980 Page 35-38
- NE 90 TERR from WEST DIXIE HWY to NE 26 CT
- The elevations are based on NGVD 1929, Miami Dade County
- Name= E-226
- BM Elev= 5.80'
- NE 187 ST = 3' SOUTH OF S. E/P;
- BISCAYNE BLVD= 30' EAST OF E. E/P OF NORTHBOUND LANE
- PK nail & brass washer in concrete catch basin
- Section 03, Township 52 , Range 42.
- Benchmark for vertical control information was recorded by DTPW Survey Section.
- Right-of-Way Lines shown hereon as per existing plats.

## LEGEND AND ABBREVIATIONS:

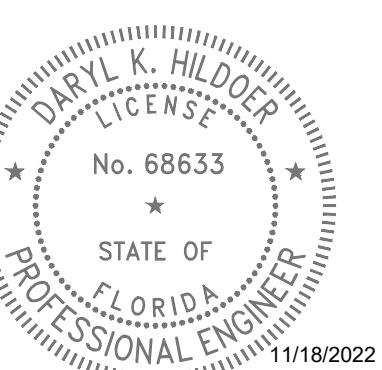
(M)	= MEASURES
(P)	= By PLAT
F; Fd	= FOUND
CND	= CONCRETE NAIL & DISK
PKF	= PK NAIL FOUND
CNDF	= CONCRETE NAIL & DISK FOUL
CNF	= CONCRETE NAIL & DISK FOUL
CNC	= CONCRETE NAIL CUT
DHF	= DRILL HOLE FOUND
NF	= NAIL FOUND
PKDF	= PK NAIL & DISK FOUND
R/W	= RIGHT OF WAY
RBAC	= ROCK BASE ASPHALT COMPO
R	= BASE LINE
C	= CENTER LINE
R	= RADIUS
L	= LENGTH OF CURVE
C&G	= CURB & GUTTER
VG	= VALLEY GUTTER
E/P	= EDGE OF PAVEMENT
T/B	= TOP OF BANK
E/W	= EDGE OF WATER
PCP	= PERMANENT CONTROL POINT
RLS	= REGISTERED LAND SURVEYOR
PLS	= PROFESSIONAL LAND SURVEYOR
ST	= STREET SIGN
ASL	= ALUM. FLASHING SCHOOL LIGHT
ML	= MAILBOX
DL	= DECORATIVE LIGHT POLE
ML	= METAL LIGHT POLE
MTLP	= METAL TRAFFIC LIGHT POLE
MPOL	= METAL POWER POLE
CPOL	= CONCRETE POWER POLE
WLPO	= WOOD LIGHT POLE
WPOL	= WOOD POWER POLE
WTPOL	= WOOD TELEPHONE POLE
FLP	= FIBERGLASS LIGHT POLE
WMAN	= WATER MANHOLE
SMAN	= SANITARY MANHOLE
SSV	= SANITARY SEWER VALVE (FM)
CPED	= CABLE TV PEDESTRIAN
TRB	= TV CABLE RISER BOX
TCB	= TV CONTROL BOX
CB	= CABLE BOX
THB	= TELEPHONE HANDHOLE
TMH	= TELEPHONE MANHOLE
TUB	= TELEPHONE UTILITY BOX
TRB	= TELEPHONE RISER BOX
TRC	= TELEPHONE RISER CONTROL
TCB	= TELEPHONE CONTROL BOX
BOX	= BOX
CROSS	= CROSSING SIGN
POST	= POST
INTER	= INTERCOM
GAVAL	= GAS VALVE
PVC	= PVC POST
GUY	= GUY WIRE
SPRINK	= SPRINKLE HEAD
CANGL	= CENTRAL ANGLE OF CURVE
MONIT	= MONITORING WELL
PETRO	= PETROLEUM PIPELINE
ELH	= ELECTRIC HANDHOLE
ELM	= ELECTRIC MANHOLE
FHYD	= FIRE HYDRANT
WATER	= WATER VALVE
WATER	= WATER METER
TRAFFIC	= TRAFFIC SIGH MANHOLE
TRAFFIC	= TRAFFIC SIGH HANDHOLE
CTRL	= TRAFFIC CONTROL BOX
SIGNAL	= TRAFFIC SIGNAL BOX
CTRL	= ELECTRICAL CONTROL BOX
RAIL	= RAIL ROAD CROSSING (LIGHT)

CONCRETE	= CONCRETE
ASPHALT	= ASPHALT
UNIMPROVED	= UNIMPROVED DRIVEWAY
GRAVEL	= GRAVEL
BRICK	= BRICK
STAMPED	= STAMPED CONCRETE
CONCRETE	= CONCRETE BLOCK FENCE
TREE	= TREE DIAMETER
CATCH	= EXISTING CATCH BASIN
STORMWATER	= EXISTING STORMWATER MANHOLE
CATCH	= PROPOSED CATCH BASIN
STORMWATER	= PROPOSED STORMWATER MANHOLE
SOLID	= EXISTING SOLID PIPE
FRENCH	= EXISTING FRENCH DRAIN
SOLID	= PROPOSED SOLID PIPE
FRENCH	= PROPOSED FRENCH DRAIN
RIGHT-OF-WAY	= RIGHT-OF-WAY LINE
WOOD	= WOOD FENCE
CHAIN	= CHAIN LINK FENCE
IRON	= IRON FENCE
SIDEWALK	= EXISTING SIDEWALK
F.P.L. OVERHEAD	= F.P.L. OVERHEAD
F.P.L. UNDERGROUND	= F.P.L. UNDERGROUND
WATER	= WATER LINE MAIN
GAS	= GAS MAIN
FORCE	= FORCE MAIN
CABLE	= CABLE TV
AT&T	= BELL SOUTH TELEPHONE CONDUIT
AT&T	= BASELINE
AT&T	= SANITARY SEWER

AVOCADO	AVOCADO TREE
ARECA	ARECA TREE
AUST.	AUST. PINE TREE
ALMOND	ALMOND TREE
BLACK	BLACK OLIVE TREE
MANGO	MANGO TREE
BOTTLE	BOTTLE BRUSH TREE
BISMARCK	BISMARCK PALM
BUSH	BUSH TREE
BISCHOFIA	BISCHOFIA TREE
OAK	OAK TREE
ORANGE	ORANGE GEIGER
PINE	PINE TREE
PALM	PALM TREE
PHILODENDRON	PHILODENDRON/RUBBER TREE
QUEEN	QUEEN PALM TREE
COCONUT	COCONUT TREE
CLUSTER	CLUSTER PALM
CYPRESS	CYPRESS TREE
CANARY	CANARY PALM
COCOS	COCOS PLUMOSA
CACTUS	CACTUS
DATE	DATE PALM
FICUS	FICUS TREE
FLORIDA	FLORIDA ORCHID TREE
FOX	FOX TAIL TREE
GUMBO	GUMBO LIMBO TREE
HIBISCUS	HIBISCUS TREE
IXORA	IXORA TREE
JUNIPER	JUNIPER TREE
JARACANDA	JARACANDA TREE
KAPOK	KAPOK TREE
HEDGES	HEDGES

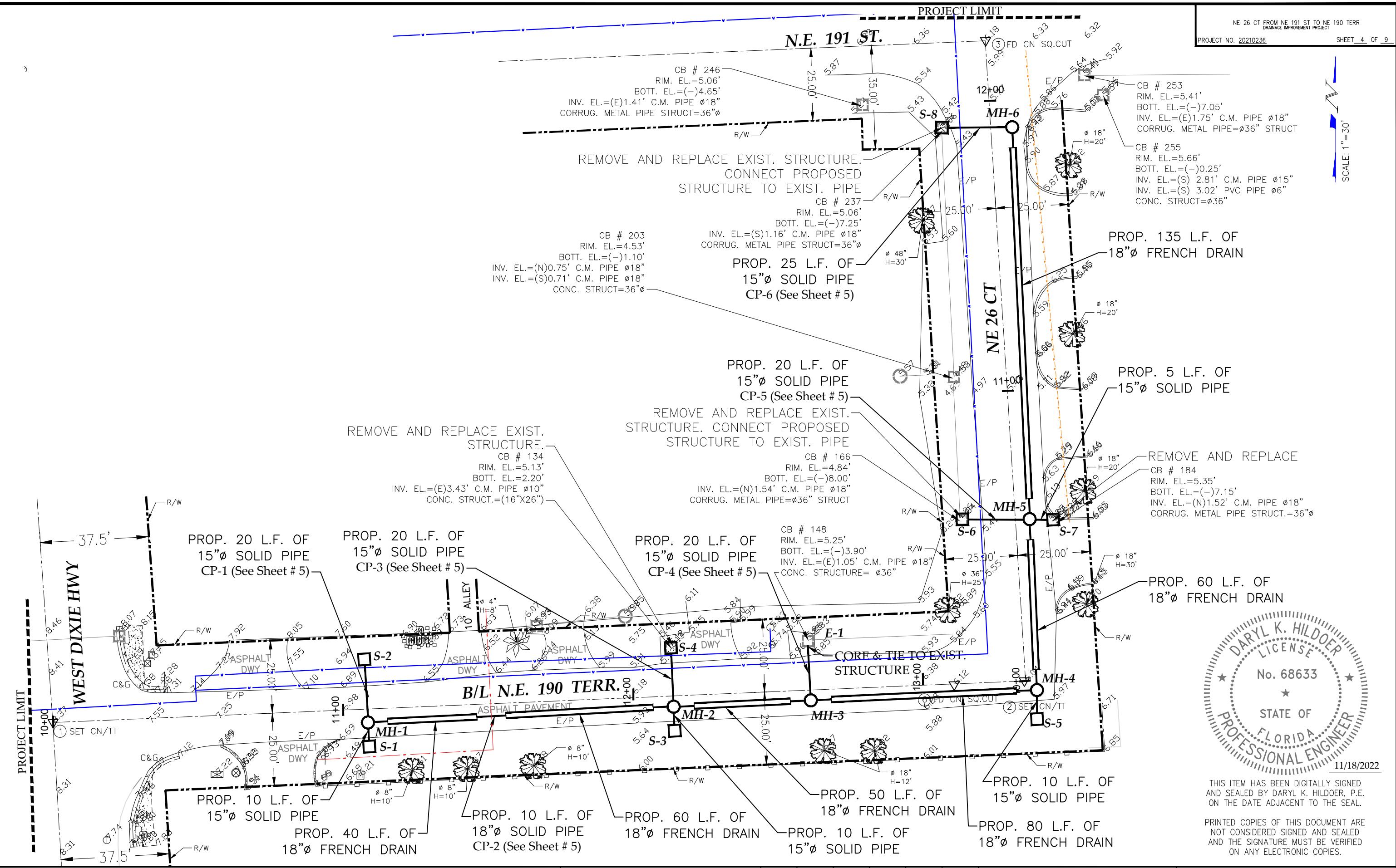
KEY SHEET  
TRS 52-42-03

REVISIONS						NE 26 CT FROM NE 191 ST TO NE 190 TERR DRAINAGE IMPROVEMENT PROJECT						DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION		SURVEYOR'S NOTES, KEY SHEET LEGEND AND ABBREVIATIONS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	NAME	DATE	NAME	DATE	MIAMI-DADE COUNTY	
SUPERVISED BY:															



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NE 26 CT FROM NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

PROJECT NO. 20210236

SHEET 4 OF 9

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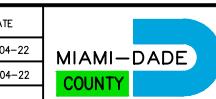
SCALE: 1" = 30'

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NE 26 CT FROM  
NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

NE 26 CT FROM NE 191 ST TO NE 190 TERR DRAINAGE IMPROVEMENT PROJECT		NAME	DATE		NAME	DATE	 <b>MIAMI-DADE COUNTY</b>	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION <small>STEPHEN P. CLARK CENTER 1000 NE 2nd Avenue MIAMI, FLORIDA 33128</small>
DESIGNED BY	M.C.	08-04-22	DRAWN BY	H.S.	08-04-22			
CHECKED BY	F.G.	08-04-22		M.C.	08-04-22			
SUPERVISED BY:								



DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NORTH ST.  
MIAMI, FLORIDA 33101

## DRAINAGE PLAN

# NE 26 Ct and NE 190 St Drainage Improvement Project

## Cost Estimate Average Price

Item No.	Description	Unit	Quantity
102-74-1	Barricades (Temporary - Types I, II, VP and Drum)	E.A./DAY	4,800
102-76A	Advance Warning Arrow Panel	E.A./DAY	160
104-10-3	Sediment Barrier	LF.	100
104-18	Inlet Protection System	E.A.	8
327-70-01	Milling, 1" Average Depth	S.Y.	195
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.	430
331-72-10B-HMA	Inlet Pavement (Includes 6" Limrock Base and 1" thick of HMA, Asphalt Work Category 2)	S.Y.	78
334-2-13-1	Hot Mix Asphalt, Traffic C, SP-9.5	Ton	41
334-2-13-1A	Driveway Pavement - Asphalt	S.Y.	80
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
425-1-1	Swale Inlet Type D-3 (36" Dia.) (Less than 10 feet deep)	E.A.	6
425-1-2B	Swale inlet Type D-1 (17"x27") (<10' deep)	E.A.	2
425-2-41	Manhole (Type P-7T, Any dimension, maximum 15' deep)	E.A.	6
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"	LF.	135
430-95-2	Desilting Drainage Structure	E.A.	1
430-171-115	Pipe Culvert - 15" Diameter (Round)	LF.	140
430-171-118	Pipe Culvert - 18" Diameter (Round)	LF.	10
443-70-3-2	French Drain (18" diameter pipe, trench depth 10 ft bls)	LF.	430
520-1-10	Concrete Curb and Gutter (Type F) (6" Curb, 18" Gutter) ( Includes cost of limerock base and subgrade)	LF.	25
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.	600
706-1-12	Reflective Pavement Markers (class B, mono or bi-directional, all colors)	E.A.	6
711-11-125	Thermoplastic ( White) (Solid) (24")	LF.	20
711-11-221	Thermoplastic ( Yellow) (Solid) (6")	LF.	100

Structure	Station	Type of Structure	Inside Dimension	Rim Elevation	Bottom Elevation	PIPE INVERT ELEVATION				Remarks
						N	S	E	W	
S-1	11+08 (13' RT)	D-3	36" φ	6.45	1.20	3.20				
S-2	11+08 (15' LT)	D-1	17" x 27"	6.65	1.40		3.40			
MH-1	11+05 (05' RT)	P-7T	42" φ	6.80	(-) 0.50	3.40	3.20	1.50		
S-3	12+14 (12' RT)	D-3	36" φ	5.65	0.40	2.40				
S-4	12+14 (15' LT)	D-1	17" x 27"	5.50	0.25		2.25			Remove and Replace Existing Structure.
MH-2	12+14 (04' RT)	P-7T	42" x 42"	6.00	(-) 0.50	2.25	2.40	1.50	1.50	
E-1	12+60 (15' LT)	Exist. C.B. 36" φ	e & tie to south wall of the structure				2.40			Existing CB to Remain
MH-3	12+60 (04' RT)	P-7T	42" φ	6.00	-0.50	2.40		1.50	1.50	
MH-4	13+39 (04' RT)	P-7T	42" φ	6.00	-0.50	1.50	2.47		1.50	
S-5	13+39 (14' RT)	D-3	36" φ	5.72	0.47	2.47				
S-6	10+55 (18' LT)	D-3	36" φ	5.15	(-) 0.10	Exist. 1.54'		1.90		Remove and Replace Existing Structure.
S-7	10+55 (13' RT)	D-3	36" φ	5.35	0.10				2.10	Remove and Replace Existing Structure.
MH-5	10+55 (05' RT)	P-7T	42" x 42"	5.90	(-) 0.90	1.10	1.50	2.10	1.90	
S-8	11+90 (17' LT)	D-3	36" φ	5.15	(-) 0.10	Exist. 1.16'	1.90			Remove and Replace Existing Structure.
MH-6	11+90 (08' RT)	P-7T	42" φ	5.60	(-) 0.90		1.10		1.90	

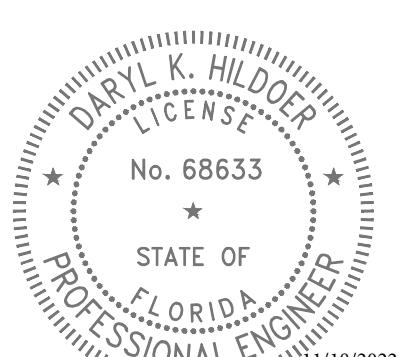
## NE 190 Terrace, NE 26 CT

### CONFLICT TABLE

Conflict Point	Drainage		Water		Water		Cable	
	Invert Elevation	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.	Top of Pipe	Pipe Dia.
CP-1	3.40	15"	(A) 2.90	(A) 12"	(A) 2.90	(A) 2"		
CP-2	1.50	18"					(A) 4.0	(A) 6"
CP-3	2.25	15"	(A) 1.50	(A) 12"	(A) 1.50	(A) 2"		
CP-4	2.40	15"	(A) 1.90	(A) 12"	(A) 1.90	(A) 2"		
CP-5	1.90	15"	(A) 1.40	(A) 6"	(A) 1.40			
CP-6	1.90	15"	(A) 1.40	(A) 6"	(A) 1.40			

*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.*

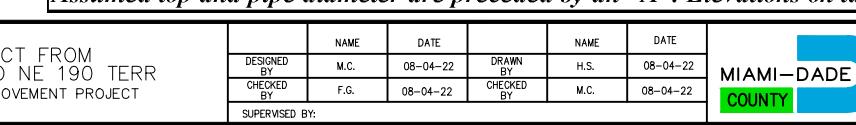


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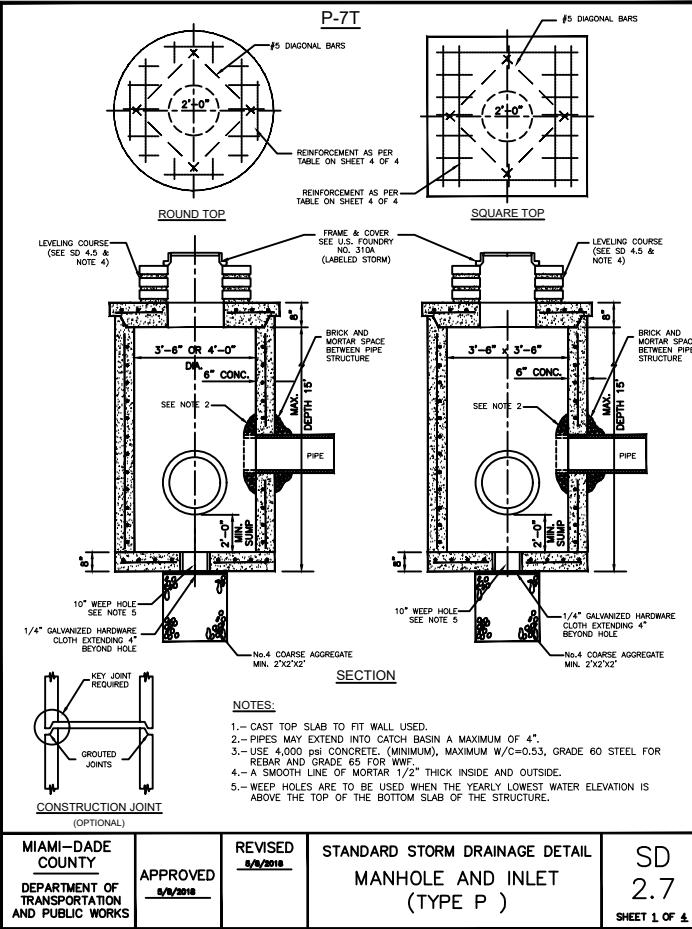
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NE 26 CT FROM  
NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

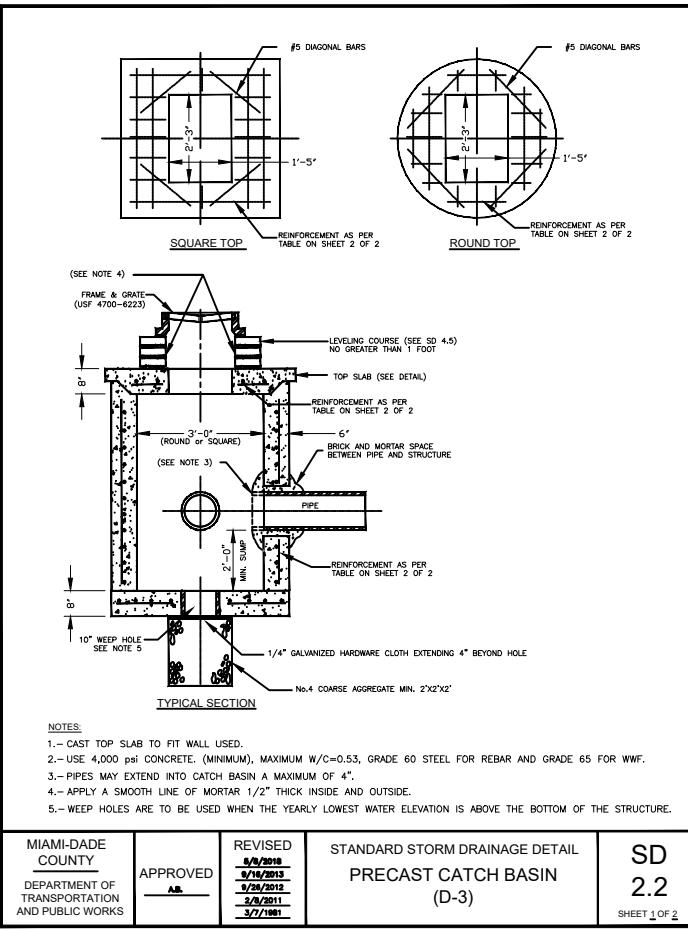


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Miami, Florida 33128

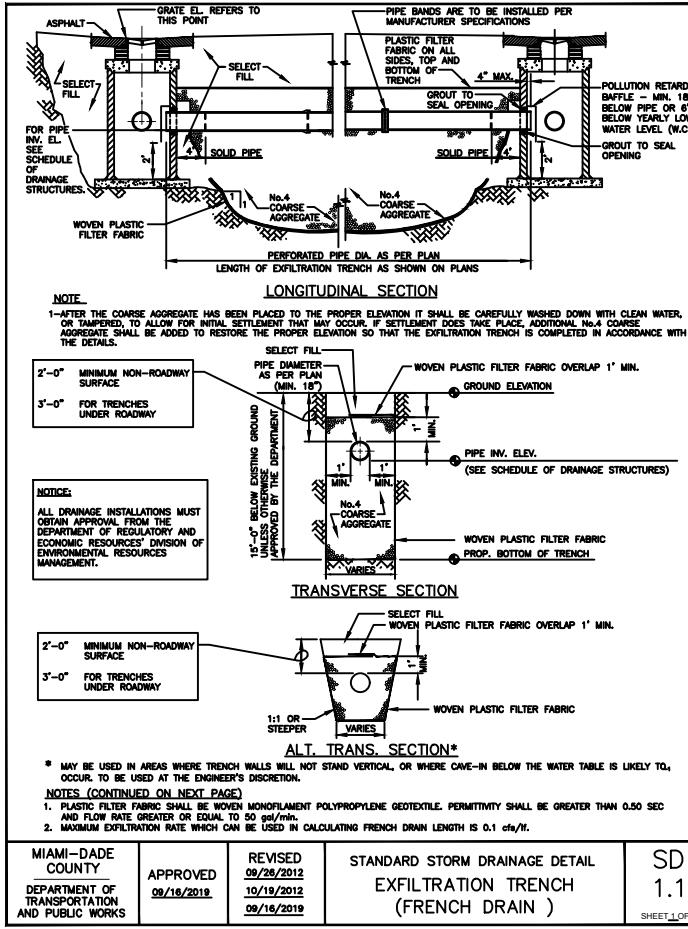
PROPOSED DRAINAGE STRUCTURE TABLE,  
CONFLICT TABLE AND  
SUMMARY OF QUANTITIES



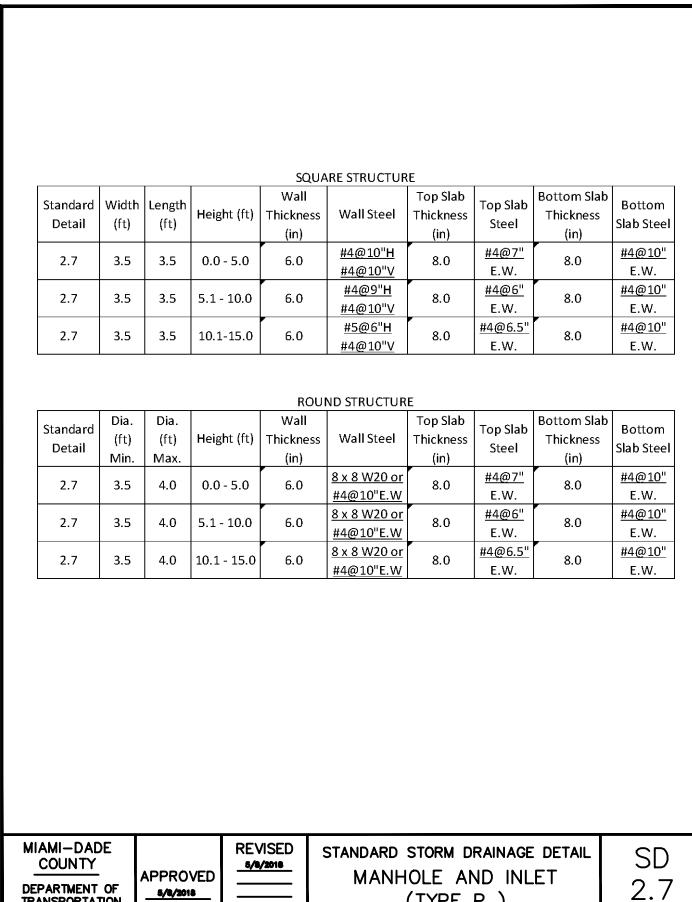
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS APPROVED 8/8/2018 REVISED 8/8/2018 STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P) SD 2.7 SHEET 1 OF 4



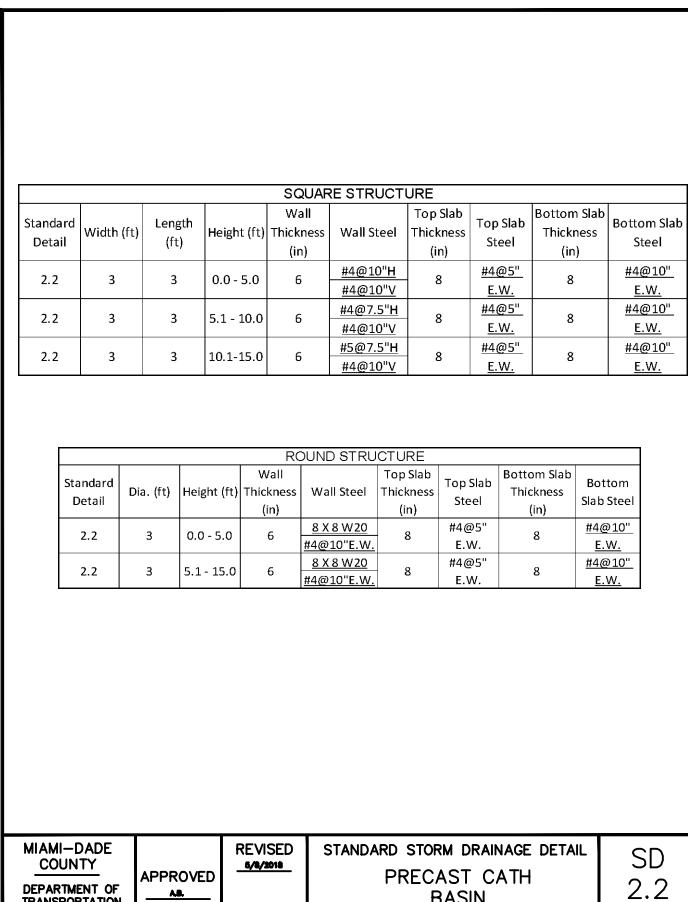
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS APPROVED 8/8/2018 REVISED 8/8/2018 STANDARD STORM DRAINAGE DETAIL PRECAST CATCH BASIN (D-3) SD 2.2 SHEET 1 OF 2



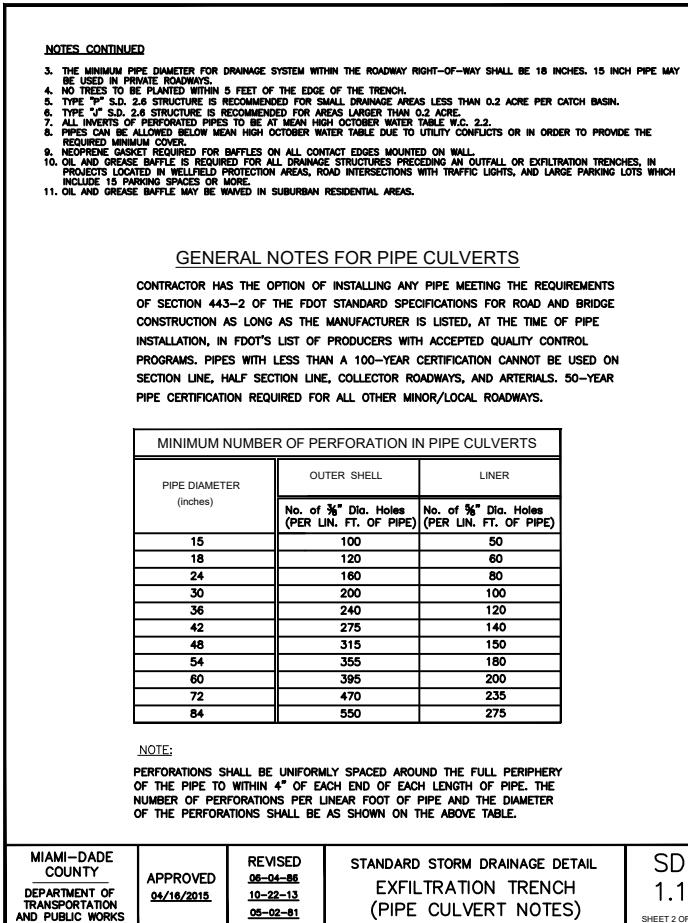
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS APPROVED 09/16/2019 REVISED 09/16/2019 STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN) SD 1.1 SHEET 1 OF 2



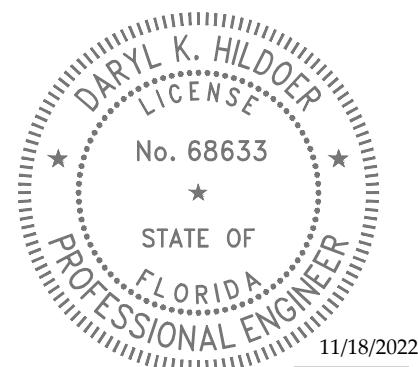
MIAMI-DADE COUNTY  
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MIAMI-DADE COUNTY  
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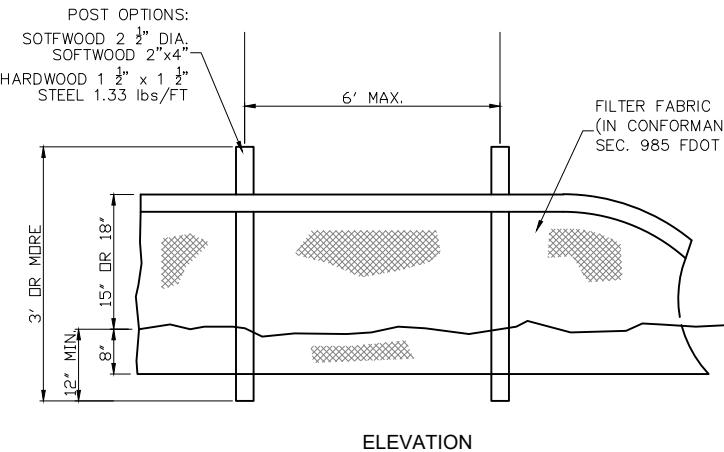
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS APPROVED 06/16/2019 REVISED 06/22/2019 STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES) SD 1.1 SHEET 2 OF 2



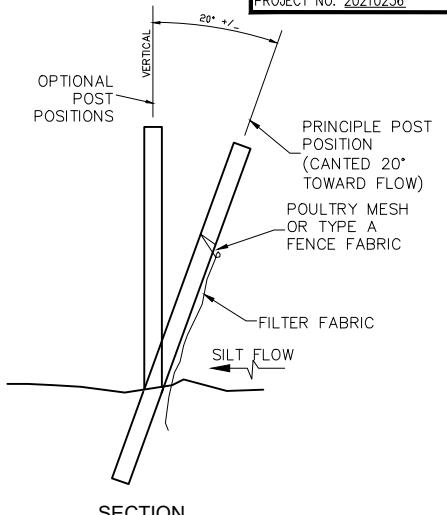
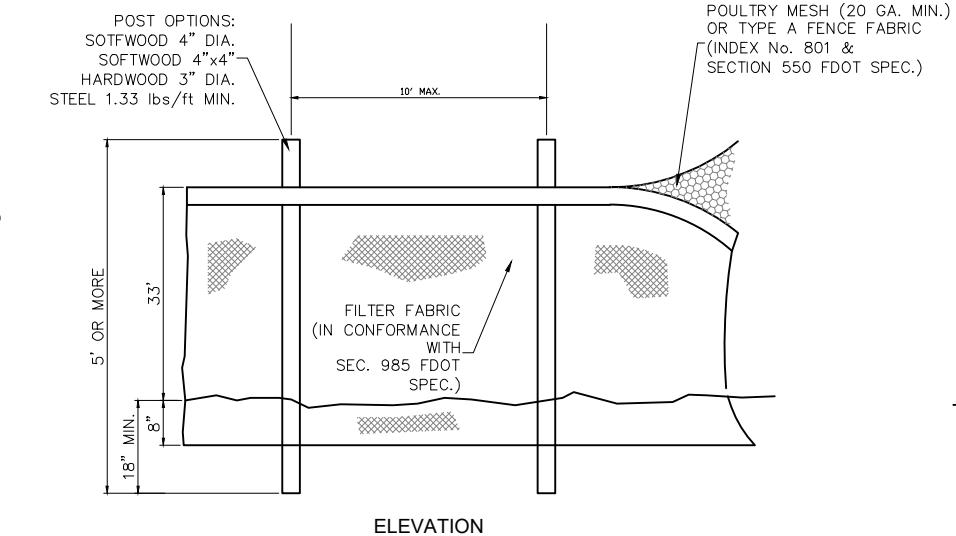
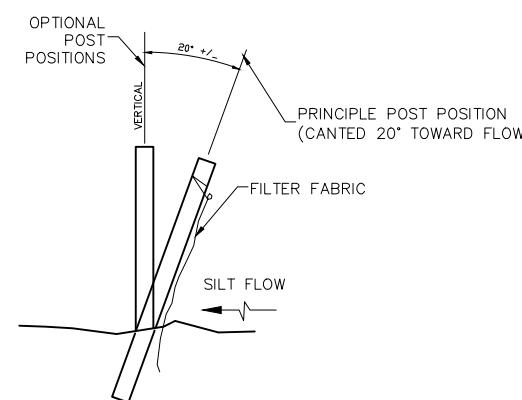
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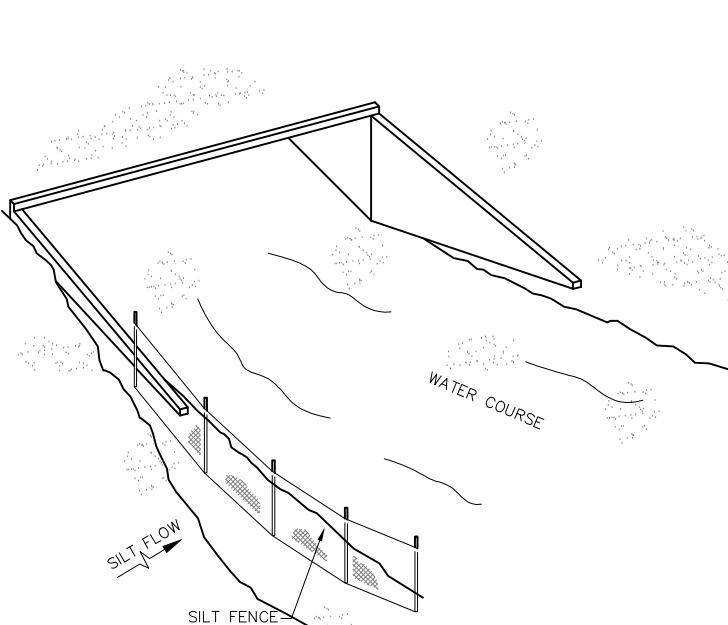
REVISIONS						NE 26 CT FROM NE 191 ST TO NE 190 TERR DRAINAGE IMPROVEMENT PROJECT						DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION		STANDARD DETAILS				
DATE	BY	DESCRIPTION		DATE	BY	DESCRIPTION		DATE	BY	DESCRIPTION		NAME	DATE	NAME	DATE			
												DESIGNED BY	M.C.	08-04-22	DRAWN BY	H.S.	08-04-22	MIAMI-DADE COUNTY
												CHECKED BY	F.G.	08-04-22	CHECKED BY	M.C.	08-04-22	SUPERVISED BY:



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.

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

REVISIONS		DESCRIPTION		DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION	
DATE	BY														

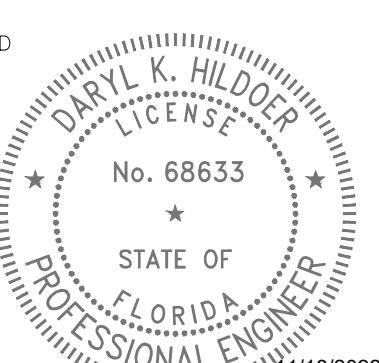
NE 26 CT FROM  
NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

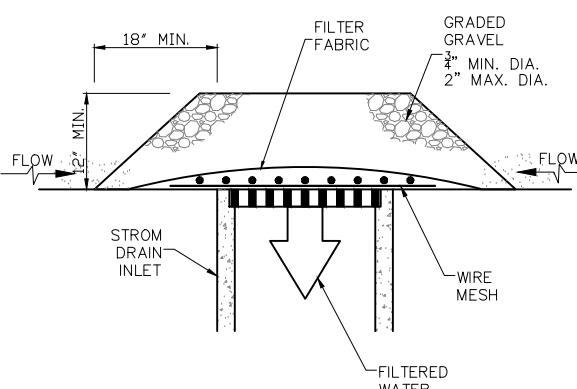
SUPERVISED BY:

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
checked by	M.C.	08-04-22	checked by	H.S.	08-04-22

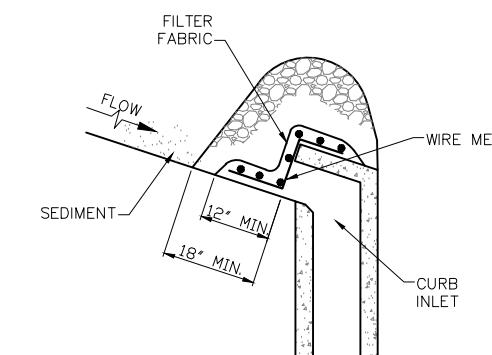
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SEDIMENT BARRIERS DETAILS

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DROP INLET PROTECTION-GRAVEL



CURB INLET PROTECTION-GRAVEL

**GRAVEL APPLICATIONS (TYP.)  
OR APPROVED ALTERNATIVE**

NOTES FOR INLET PROTECTION GRAVEL:

1- INSTALLATION/APPLICATION CRITERIA:

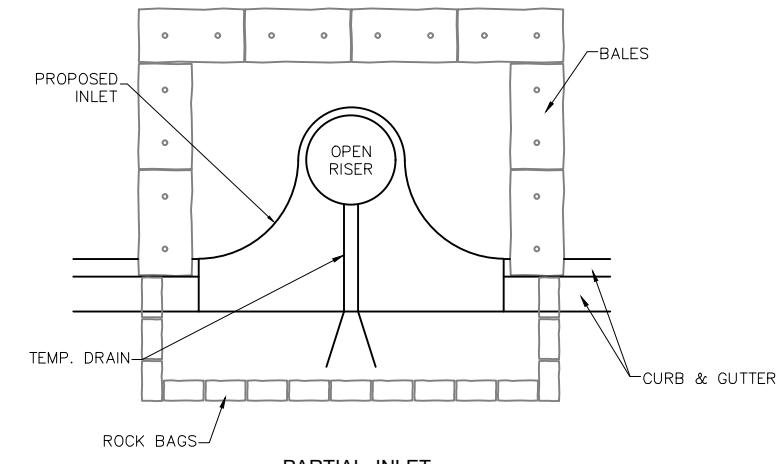
- PLACE WIRE MESH (WITH  $\frac{1}{2}$  INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

2- MAINTENANCE:

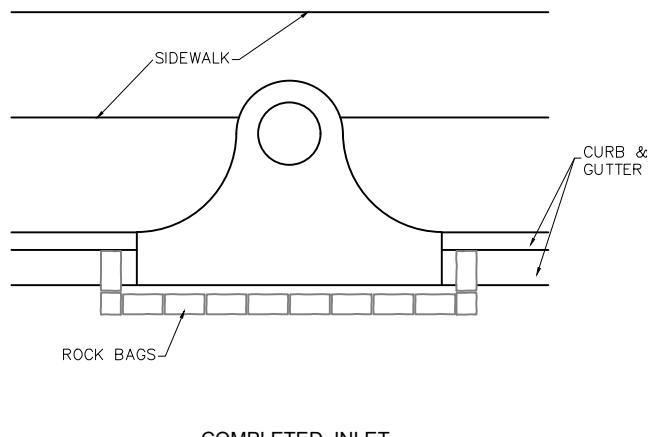
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

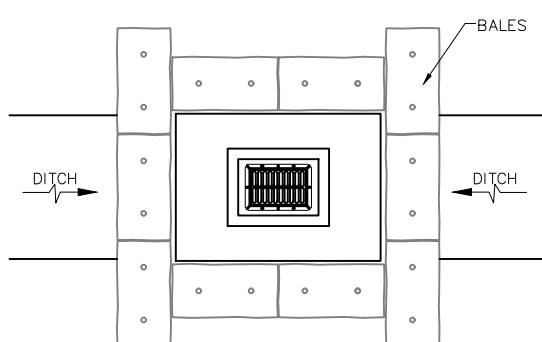
- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



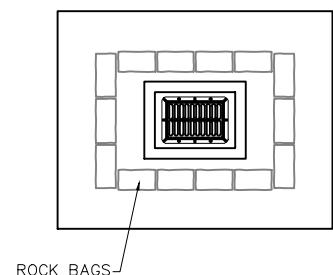
PARTIAL INLET



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:

- TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 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.
- RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAYBE 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.

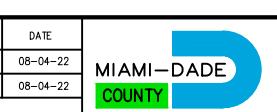
**INLET PROTECTION SYSTEM (TYP.)  
OR APPROVED ALTERNATIVE**

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NE 26 CT FROM  
NE 191 ST TO NE 190 TERR  
DRAINAGE IMPROVEMENT PROJECT

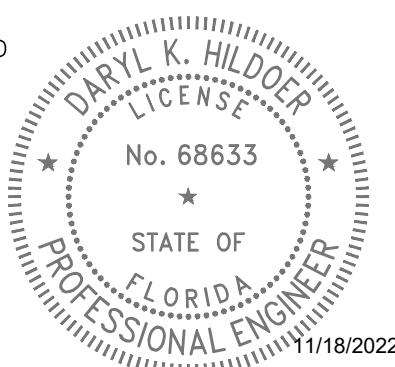
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	F.G.	08-04-22	CHECKED BY	M.C.	08-04-22

SUPERVISED BY:



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AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
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INLET PROTECTION SYSTEMS DETAILS



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