PLANS FOR

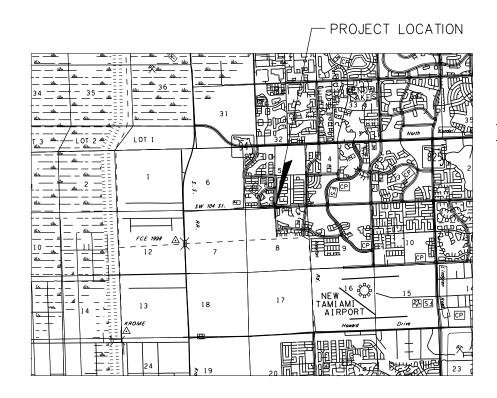
INTERSECTION IMPROVEMENT

INDEX OF SHEETS

SW 162ND AVENUE AND SW 104TH STREET

PROJECT No. 20200221

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	5	GENERAL NOTES	
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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.

PREPARED FOR



MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
TRAFFIC ENGINEERING DIVISION

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



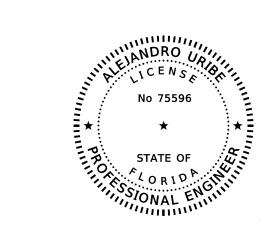
GANNETT FLEMING, INC. 800 NW 62 AVENUE, SUITE 490 MIAMI, FLORIDA 33126 ROADWAY PLANS ENGINEER OF RECORD:

ALEJANDRO URIBE, P.E.
P.E. LICENSE NUMBER 75596
GANNETT FLEMING, INC.
800 NW 62 AVENUE, SUITE 490
MIAMI, FLORIDA 33126

APPROVED	
	COUNTY ENGINEER
RECOMMENDED	
	ASSISTANT DIRECTOR
SUBMITTED	
	TRAFFIC ENGINEERING DIVISION
PROPOSED	CHECK
DESIGN ————	DRAWN
ATE	SHEET <u>1</u> OF <u>29</u>

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MAMI-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 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (2020-2021), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2021), AS AMENDED BY CONTRACT DOCUMENTS.





THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THE DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

ALEJANDRO URIBE, P.E. NO: 75596 GANNETT FLEMING, INC. 800 N.W. 62ND AVENUE, STE 490 MIAMI, FLORIDA 33126

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

ROADWAY PLANS

17-21

SHT. No.	SHEET DESCRIPTION				
1	COVER SHEET				
1A	SIGNATURE SHEET				
2-3	TYPICAL SECTION				
4	SUMMARY OF QUANTITIES				
5	GENERAL NOTES				
5A-5C	EROSION CONTROL PLAN				
6-10	ROADWAY PLAN				
11	INTERSECTION DETAIL				
11A-11C	DRAINAGE DETAILS				
12-15	CROSS SECTIONS				
SIGNING &	PAVEMENT MARKINGS PLANS				

<u>SHT. No.</u>	SHEET DESCRIPTION
16	TABULATION OF SIGNING & PAVEMENT MARKINGS
16	AND NOTES

SIGNING & PAVEMENT MARKING PLAN

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

SHEET 1A OF 29

PROJECT NO. 20200221

No 77354

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STATE OF
ORIDA
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THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

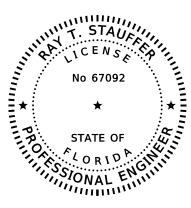
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FABRICIO . SAVIO, P.E. NO: 77354 GANNETT FLEMING, INC. 800 N.W. 62ND AVENUE, STE 490 MIAMI, FLORIDA 33126

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

SIGNALIZATION PLANS

SHT. No.	SHEET DESCRIPTION
1A	SIGNATURE SHEET
22	SIGNALIZATION TABULATION OF QUANTITIES AND NOTES
23	SIGNALIZATION PLAN
24	MAST ARM TABULATION
25	GUIDE SIGN WORKSHEET
26	ELECTRICAL POWER/SERVICE DETAIL
27	CONTROLLER CABINET INSTALLATION DETAIL
28	CONCRETE SLAB DETAIL



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RAY T. STAUFFER, P.E. NO: 67092 GANNETT FLEMING, INC. 800 N.W. 62ND AVENUE, STE 490 MIAMI, FLORIDA 33126

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

SIGNALIZATION PLANS

SHT. No.

SHEET DESCRIPTION

1A SIGNATURE SHEET

29 MAST ARM ASSEMBLIES DATA TABLE

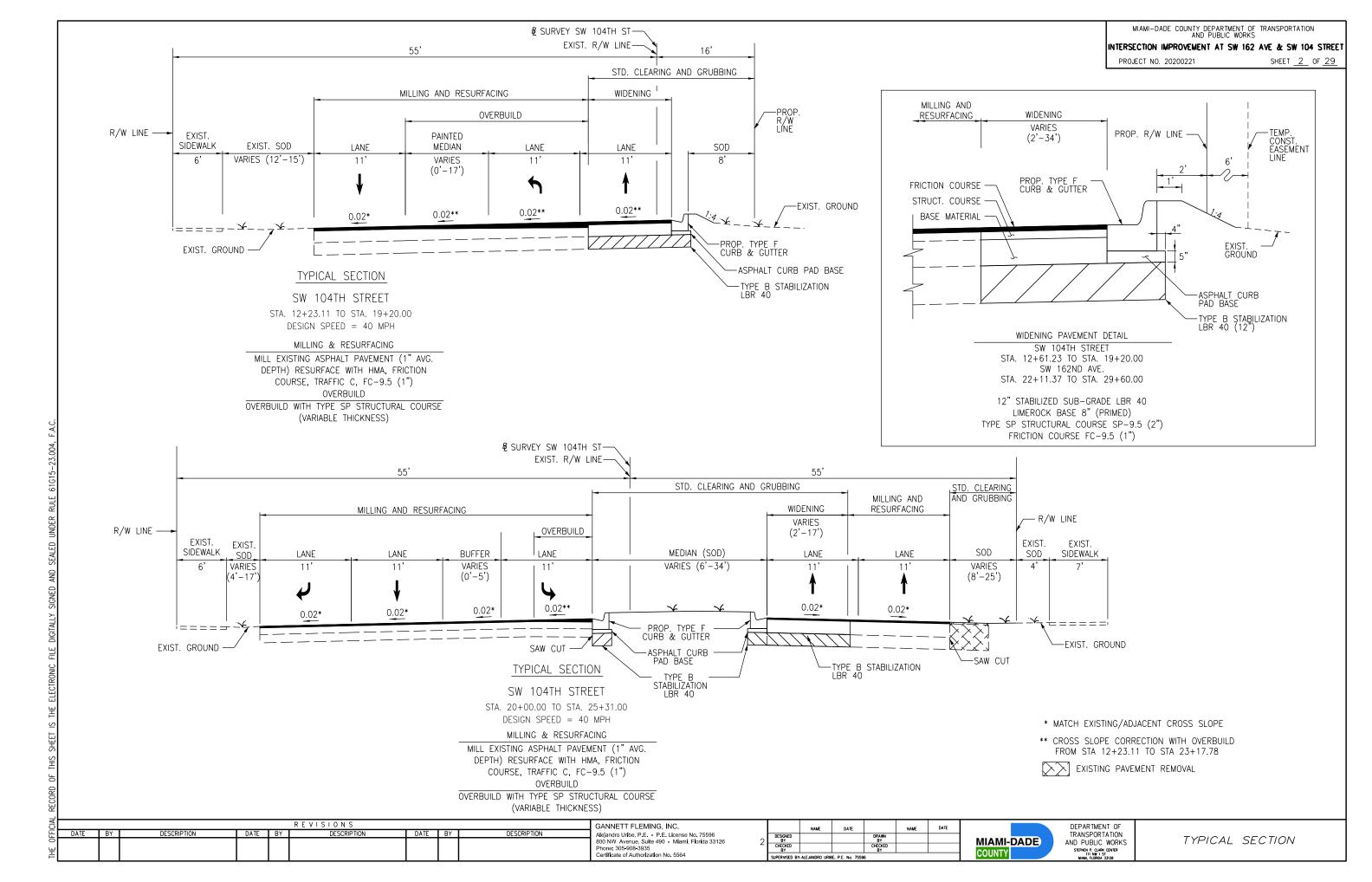
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GANNETT FLEMING, INC.
Alejandro Uribe, P.E P.E. License No. 75596
800 NW Avenue, Suite 490 - Miami, Florida 33126
Phone: 305-908-3935
Certificate of Authorization No. 5564

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		



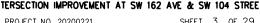
SIGNATURE SHEET

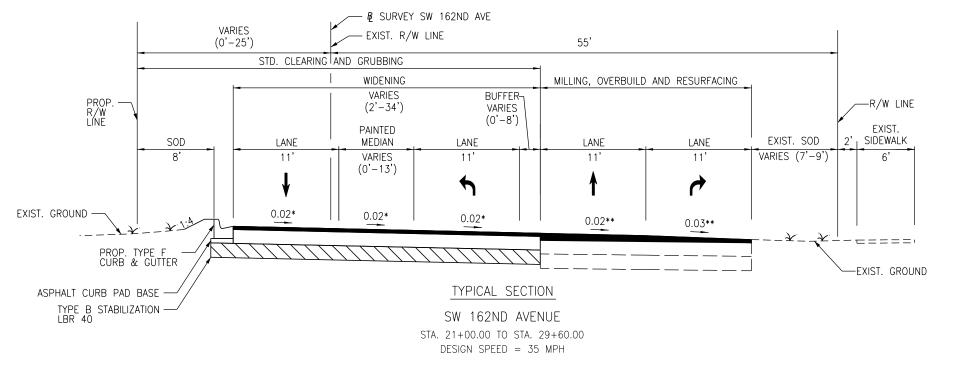


MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221





MILLING, OVERBUILD AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH) OVERBUILD WITH TYPE SP STRUCTURAL COURSE (VARIABLE THICKNESS) RESURFACE WITH HMA,

FRICTION COURSE, TRAFFIC C, FC-9.5 (1") 40' 40' -R/W LINE — Æ SURVEY SW 162ND AVE EXIST EXIST. MILLING AND RESURFACING MILLING AND RESURFACING R/W LINE — SOD SOD EXIST. EXIST. MEDIAN SIDEWALK SIDEWALK (SOD) LANE LANE LANE LANE 11' 11' 11' VARIES 11' 6'-30') 0.02* 0.02** 0.02** 0.02* EXIST. GROUND -EXIST. GROUND TYPICAL SECTION -EXIST. GROUND -EXIST. TYPE F CURB & GUTTER EXIST. TYPE F CURB & GUTTER

SW 162ND AVENUE

STA. 30+80.00 TO STA. 32+00.00 DESIGN SPEED = 35 MPH

MILLING & RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH) RESURFACE WITH HMA, FRICTION COURSE, TRAFFIC C, FC-9.5 (1")

- * MATCH EXISTING/ADJACENT CROSS SLOPE
- ** CROSS SLOPE CORRECTION WITH OVERBUILD FROM STA 25+00.00 TO STA 30+14.22

EXISTING PAVEMENT REMOVAL

REVISIONS DESCRIPTION

GANNETT FLEMING, INC. Alejandro Uribe, P.E. - P.E. License No. 75596 800 NW Avenue, Suite 490 - Miami, Florida 33126 Certificate of Authorization No. 5564



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

* MATCH EXISTING CROSS SLOPE

TYPICAL SECTION

SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1-A	MOBILIZATION	LS	1
102-1A	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	4600
104-18	INLET PROTECTION SYSTEM	EA	8
110-1-1B	CLEARING AND GRUBBING	LS	1
110-4-2H	REMOVAL AND DISPOSAL OF EXISTING CONCRETE SIDEWALK (UP TO 8" THICK)	SY	147
110-4-10C	REMOVE AND DISPOSE EXISTING CURB AND GUTTER	LF	152
120-1	REGULAR EXCAVATION	CY	2188.0
120-6	EMBANKMENT	CY	358
160-4	TYPE "B" STABLIZATION (12") (MIN. C.B.R. OF 30)	SY	2224
200-1-10	LIMEROCK BASE (8") (PRIMED)	SY	2224
327-70	MILLING EXIST. ASPHALT PAVEMENT, 1" AVG DEPTH	SY	9632
334-2-13-1	HOT MIX ASPHALT, TRAFFIC C, SP-9.5	TN	245.14
337-8-42	HOT MIX ASPHALT FRICTION COURSE, TRAFFIC C FC-9.5 RUBBER (OVERBUILD)	TN	165.83
337-8-42	HOT MIX ASPHALT FRICTION COURSE, (TRAFFIC C) FC-9.5 (1") RUBBER	TN	648.7
339-1	MISCELLANEOUS ASPHALT	TN	6.72
425-1-907A	POLLUTION RETARDANT BAFFLE (ANY TYPE) (ANY DIMENSION)	EA	4
425-2-72D	MANHOLES, J-T7, >10'	EA	6
425-2-72E	MANHOLE J-T7, PARTIAL	EA	1
425-5	ADJUST MANHOLE	EA	2
425-5-1	ADJUST MANHOLE UTILITIES (MIAMI-DADE WATER & SEWER ONLY)	EA	2
425-6	ADJUST VALVE BOX (MIAMI-DADE WATER & SEWER ONLY)	EA	9
425-1-905	SWALE INLET TYPE J-10M	EA	4
430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"S/CD	LF	8
430-175-118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	42
430-175-124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	8
443-70-6-3	FRENCH DRAIN, 36" DIAMETER PERFORATED PIPE, TRENCH DEPTH OF 15 FT	LF	504
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	2437
520-2-12B	CONCRETE CURB, TYPE D	LF	38
522-2(1)	CONCRETE SIDEWALK, 6" THICK	SY	257
527-2	DETECTABLE WARNING SURFACE	SF	71
575-1-1	SODDING (PENSACOLA, BAHIA OR MATCH EXISTING)	SY	2373

PAY ITEM NOTES

TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 102-600 SERIES, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HICHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (ANSI D6 1-1978), PUBLIC WORKS MANUAL OF METROPOLITAN DADE COUNTY, AND THE LATEST REVISIONS OF THE AFORE MENTIONED MANUALS. INCLUDES THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, BARRICADES, FLASHING LIGHTS, TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKINGS, TRAFFIC SIGNAL MODIFICATION FOR TRAFFIC CONTROL, ETC.

110-1-1B

INCLUDES REMOVAL OF EXISTING PAVEMENT, DRIVEWAYS, DRAINAGE STRUCTURES AND PIPES, MISCELLANEOUS CONCRETE, VEGETATION, TREES AND DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES THE COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.

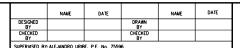
430-175-1XX PROPOSED PIPE SHALL BE PROLYPROPYLENE PIPE (PP)

443-70-6 HDPE FRENCH DRAIN IS NOT ALLOWED

520-1-10 INCLUDES DROP CURB AT DRIVEWAYS AND 3 FT OF CURB ENDING AS DIRECTED BY THE ENGINEER.

522-2 INCLUDES THE COST OF PEDESTRIAN RAMPS.







NDFR

SFAI FD

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

THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES.
CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.

- 7. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
- 9. THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE
- [BASELINE CONTROL SURVEY CONDUCTED BY MIAMI-DADE COUNTY.] PLEASE CALL MR. LUIS LACAU AT 305-375-5774 CONCERNING SURVEY RELATED QUESTIONS.
- 11. EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY MIAMI-DADE COUNTY.
- 12. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
- 13. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.
- 4. 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 OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305-668-3526. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY, FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE, FAX NO. 305-545-3482. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MOWASD HYDRANT SHOP AT 305-805-4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT AT 305-274-9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
- 15. KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

COMCAST
MIAMI DADE COUNTY IT
FPL DISTRIBUTION
MIAMI DADE COUNTY
FLORIDA CITY GAS
MDWASA
AT&T

LEONARD MAXWELL NEWBOLD FRANK DOPICO JOHN GIRALDO OCTAVIO VIDAL ROLAND RUIZ PATRICK CHONG HENRY URFNA

LEONARD MAXWELL—NEWBOLD@CABLE.COMCAST.COM FRANK.DOPICO@MIAMIDADE.GOV JOHN.GIRALD@FPL.COM OVIDAL@HTLOCATING.COM RRUIZ@SOUTHERNCO.COM PATRICK.CHONG@MIAMIDADE.GOV HU083J@ATT.COM 954-444-5113 305-275-7813 305-798-8914 786-345-0986

786-457-0937

- 16. 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 LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- 17. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER
- 18. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
- CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
- 20. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
- 21. 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.
- 22. 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.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND DEWATERING SHALL BE INCLUDED IN THE THE RELATED BID ITEM FOR THE WORK BEING DONE.
- 24. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
- 25. EXPLORATORY OR PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONF
- 26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE
- 27. ALL EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.
- 28. ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
- 29. 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.
- 30. EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILLARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
- 31. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- 32. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
- 33. 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.
- 34. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
- 35. 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.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221 SHEET <u>5</u> OF <u>2</u>

37.CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.

38.STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"X20" AREA.

 $39.\mathsf{EXISTING}$ drainage structures within the limits of construction shall be removed unless otherwise noted.

- 40. EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON—TOXIC BITUMASTIC SEALANT.
- 41. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
- CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.
- ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 44. RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 45. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
- 46. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING.
 BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF
 FYCAUATION
- 47. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE LOCATIONS.
- 48. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE PUBLIC WORKS DEPARTMENT MANUAL, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT DESIGN STANDARDS
- 49. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND
- 50. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
- 51. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.
- 52. 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.
- 53. CONTRACTOR TO INSTALL 1#2" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
- 54. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE.
- 55. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI-DADE TRANSIT. ENGINEER TO CONTACT
 MIAMI-DADE COUNTY TRANSIT AT (305)637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND
 COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
- 6. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.
- 57. DESIGN WATER TABLE ELEVATION: 5.50 FT (NGVD29)
- 58. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 9.00 FT (NGVD29)
- 3. 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.

STORMWATER POLLUTION PREVENTION PLAN

NARRATIVE DESCRIPTION

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

- A. NATURE OF CONSTRUCTION ACTIVITIES: THE PROJECT CONSISTS OF CONVERTING A STOP CONTROLLED INTERSECTION. CONSTRUCTION SCOPE INCLUDES PAVEMENT WIDENING, MILLING AND RESURFACING OF EXISTINGPAVEMENT, REGRADING OF ROADWAY SLOPES, NEW CURB AND GUTTER, RAISED MEDIAN RECONSTRUCTION, DRAINAGE RECONSTRUCTION, NEW FRENCH DRAIN SEGMENTS, NEW MAST ARMS FOR SIGNALS, SIGNING AND PAVEMENT MARKINGS.
- B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL PROVIDE IN THE ECP A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. EACH CONSTRUCTION PHASE REQUIRES THE INSTALLATION OF PERIMETER CONTROL, AFTER CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF THE CONTROLS, PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE
- 1) CLEARING AND GRUBBING, AND EARTHWORK ASSOCIATED WITH THE CONSTRUCTION IMPROVEMENTS.

 2) PROPOSED DRAINAGE INSTALLATION
- 3) PAVEMENT WIDENING, CURB AND GUTTER SIDEWALK, AND MEDIAN CONSTRUCTION
- 4) INSTALLATION OF MAST ARMS AND
- SIGNALIZATION FOUIPMENT
- MILLING RESURFACING AND FRINAL GRADING 6) SIGNING AND PAVEMENT MARKINGS
- C. AREA ESTIMATES (ACRE)
- 1) TOTAL SITE AREA: 4.64
- 2) TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED: 0.9
- D. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE AND AN ESTIMATE OF THE SIZE OF THE DRAINAGE AREA FOR EACH DISCHARGE POINT:
- 1) RATIONAL RUNOFF COFFFICIENT
 - A) BEFORE: -0.95 B) DURING: -0.85
 - C) AFTER CONSTRUCTION: -0.90
- 2) EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF DISCHARGE FROM THE SITE: ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY REPORT OF DADE COUNTY AREA, FLORIDA, THE SOILS ENCOUNTERED ON THE PROJECT ARE OF THE URBANLAND—SOIL, WHICH ARE CATEGORIZED AS
- 3) THE SITE HAS NO PROPOSED OR EXISTING OUTFALLS. IT IS A CLOSED SYSTEM CONSISTING OF EXISTING FRENCH DRAINS THAT WILL BE SUPPLEMENTED WITH NEW FRENCH DRAIN SEGMENTS TO ACCOUNT FOR THE NEW IMPERVIOUS AREAS
- E. SITE MAP: THE ASSOCIATED CONSTRUCTION PLAN SHEETS AND CROSS SECTIONS WILL BE USED AS THE SITE MAP. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW. THE SHEET NUMBERS FOR ALL ITEMS DISCUSSED ARE IDENTIFIED ON THE COVER SHEET OF THE CONSTRUCTION PLANS AND CROSS SECTIONS PLANS.
- 1) DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES: THE SLOPES OF THE SITE CAN BE SEEN ON THE CONSTRUCTION PLAN SHEETS AND CROSS SECTION PLAN SHEETS.
- 2) AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLAN DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

- 3) AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED: THESE AREAS OF THE PROJECT OUTSIDE THE CLEARING AND GRUBBING AND CONSTRUCTION ACTIVITIES WHICH ARE COMPRISED OF THOSE THAT ARE NOT SUBJECT TO ANY SOIL DISTURBING ACTIVITIES.
- 4) THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN: TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AT ALL LOCATIONS WHERE DISTURBANCE OF SOLIDS WILL OCCUR. ADDITIONAL MEASURES MAY BE REQUIRED AS NECESSARY WHERE STORMWATER RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFSITE STORMWATER COLLECTION FACILITIES.
- 5) THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MS4: AREAS OF PERMANENT STABILIZATION ARE SHOWN ON THE CONSTRUCTION PLAN SHEETS AND CONSTRUCTION DETAIL SHEETS.
- F. DISCHARGE POINT(S)
- 1) NOT APPLICABLE TO THIS PROJECT.

2. CONTROLS

- A. EROSION AND SEDIMENT CONTROLS: THE CONTRACTOR SHALL DESCRIBE IN THE ECP THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE ECP, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER MANAGEMENT PRACTICES. FOR EACH CONSTRUCTION PHASE INSTALL PERMITTER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED. IN ADDITION
 - SEDIMENT BARRIERS SHALL BE INSTALLED AND AT THE TOE OF SLOPE OF EMBANKMENTS AND AT LOCATIONS AS DESCRIBED IN THE EROSION AND SEDIMENT CONTROL DETAILS AND E&SC MANUAL
 - CLEARING AND GRUBBING OPERATIONS WILL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER, AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE
 - EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE THE MATERIAL COULD BE WASHED AWAY BY HIGH WATER, RAIN OR STORMWATER RUNOFF. STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT DEVICES.
- 1) STABILIZATION PRACTICES: IN THE ECP. THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- A) TEMPORARY: INCLUDES SOD, MULCH, AND SYNTHETIC BALES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
 - B) PERMANENT: INCLUDES ASPHALT OR CONCRETE SURFACE AND SOD.
- 2) STRUCTURAL PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL AND TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE
- A) TEMPORARY: INCLUDES INLET PROTECTION SYSTEMS, SEDIMENT BARRIERS AND TURBIDITY BARRIERS AS THE E&SC MANUAL AND THE CONTRACT DOCUMENTS. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR MORE INFORMATION, ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL
- PERMANENT STORMWATER MANAGEMENT CONTROLS: STORMWATER RUNOFF WILL BE CONVEYED IN AROADSIDE B), PERMANENT STORMWATER MANAGEMENT CONTROLS: STORMWATER RUNOFF WILL BE CONVEYED IN AROADSIDE SWALE SYSTEM AND EXISTING DRAINAGE SYSTEM. C. CONTROL FOR OTHER POTENTIAL POLLUTANTS: THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BYINSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE: 1) WASTE DISPOSAL: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THEUNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISEAPPROVED BY THE ENGINEER: A) THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTEGENERATED. WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATIONFROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDESAND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS, CONTRACTOR SHALL DESIGNATE A WASTECOLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.

 B) SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY NEAL AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH, A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS WILL COLLECTALL SANITARY WASTE FROM PORTABLE UNITS.

 C) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITSDURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTERCONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS (AS APPLICABLE). WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY. 2) STATE OR LOCAL REGULATIONS: IN SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY. 2) STATE OR LOCAL REGULATIONS: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSEDPROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, ANDSANITARY SEWER OR SEPTIC SYSTEMS.

- 3) APPLICATION OF FERTILIZER AND PESTICIDES
 - A) THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURER RECOMMENDED METHOD AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS.
 - B) HERBICIDES AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.
- 4) TOXIC SUBSTANCES AND MATERIALS
- A) IN THE ECP, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.
- B) CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS. SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORMWATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURER RECOMMENDED METHOD.
- C) CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC HAZARDOUS MATERIALS SPILL CONTROL PLAN IN ORDER TO ADDRESS THE HANDLING OF HYDROCARBON AND HAZARDOUS MATERIALS.
- D) PETROLEUM PRODUCTS SHALL BE STORED IN COVERED AREAS WITH SECONDARY CONTAINMENT
- E) TOXIC/HAZARDOUS MATERIALS EXPOSED DURING CONSTRUCTION ACTIVITIES SHALL BE HANDLED PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS
- D. APPROVED STATE AND LOCAL PLANS AND PERMITS
- 1) FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- 3. MAINTENANCE: IN THE ECP, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION, THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH
- A. SEDIMENT BARRIERS-TWELVE (12) MONTHS, OR AS REQUIRED, REPLACEMENT INTERVAL IN ACCORDANCE WITH CONTRACT'S SPECIFICATIONS.
- B. INLET PROTECTION SYSTEMS-CHECK AGGREGATE AFTER RAINFALL EVENTS. CLEAN AGGREGATE IF CLOGGING
- C. THE MAINTENANCE OF THESE DEVICES SHALL OCCUR UNTIL THE ENGINEER HAS DEEMED AN AREA PERMANENTLY STABILIZED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE EROSION AND SEDIMENT CONTROL DEVICES ONCE THEY HAVE SERVED THEIR PURPOSE.

- A. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT DAILY VISUAL INSPECTIONS OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE THESE ITEMS AS NECESSARY.
- B. THE ENGINEER SHALL HAVE AN INSPECTOR REVIEW THE PROJECT'S TEMPORARY AND PERMANENT EROSION CONTROL MEASURES FOR THE ITEMS LISTED BELOW AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND/OR WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. A WRITTEN INSPECTION REPORT IS REQUIRED EVERY SEVEN CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A STORM THAT DEPOSITS 0.5
- 1) OUTFALLS INTO THE WATERS OF THE UNITED STATES
- 2) POINTS OF DISCHARGE TO MUNICIPAL SEPARATED STORM SEWER SYSTEMS
- 3) DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED
- 4) AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION
- 5) STRUCTURAL CONTROLS
- 6) STORMWATER MANAGEMENT SYSTEMS
- 7) LOCATIONS WHERE VEHICLES ENTER OR EXIT THIS SITE
- 8) CHECK THAT THE APPROVED OR REVISED EROSION CONTROL PLAN IS FOLLOWED
- 9) WHERE SITES HAVE BEEN STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.
- C. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT
- TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.
- 5. NON-STORMWATER DISCHARGES: THE CONTRACTOR SHALL PROVIDE AN EROSION CONTROL PLAN DURING THE EXCAVATION AND CONSTRUCTION OF THE DRAINAGE IMPROVEMENTS. NO DEWATERING IS ANTICIPATED AND REQUIRED
- A. IN THE ECP, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION FROM THESE NON-STORMWATER DISCHARGES.
- B. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE DEPARTMENT OF ENVIRONMENTAL RESOURCES (DERM) COMPLIANCE DESK, AT (305) 372-6955.
- 6. CONTRACTOR/SUBCONTRACTOR CERTIFICATION.
- A. FOR EACH MEASURE IDENTIFIED IN THE SWPPP, THE CONTRACTOR AND/OR SUBCONTRACTOR(S) THAT WILL IMPLEMENT THE MEASURE MUST SIGN A COPY OF A CERTIFICATION STATEMENT PRIOR TO CONDUCTING ANY CONSTRUCTION ACTIVITIES AT THE SITE.

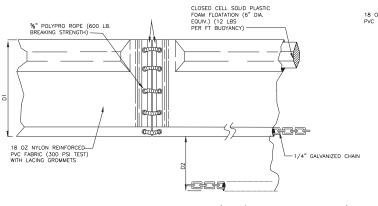




EROSION CONTTROL PLAN

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221 SHEET <u>5B</u> OF <u>29</u>



TYPE I

D1=5' Std (Single Panel For Depths 5' or less).
D2=5' Std. (Additional Panel For Depths >5').
Curtain To Reach bottom Up To Depths of 10 Feet.
Two (2) Panels to be used fo depths greater than 10' unless special depth curtains are specifically called for in the plans or as determined by the Engineer.

LEGEND:

PILE LOCATIONS

DREDGE OR FILL AREA

D MOORING BUOY W/ANCHOR

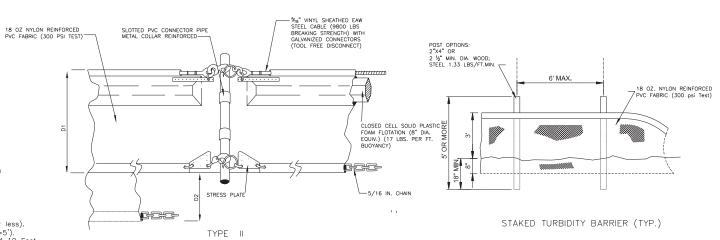
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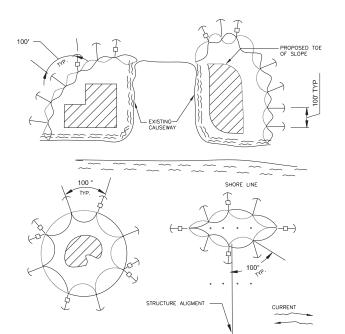
BARRIER MOVEMENT DUE TO CURRENT ACTION

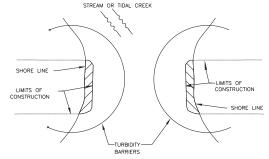
NOTES:

RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- 1- TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
- 2- NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- 3- DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- 4- NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.







NOTE:

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPES(S) WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEMS(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS IS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TURBIDITY BARRIER APPLICATIONS FLOATING TURBIDITY BARRIERS (TYP.)

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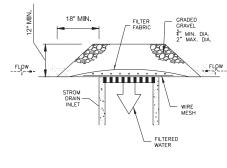
GANNETT FLEMING, INC.
Alejandro Uribe, P.E P.E. License No. 75596
800 NW Avenue, Suite 490 - Miami, Florida 33126
Phone: 305-908-3935
Certificate of Authorization No. 5564

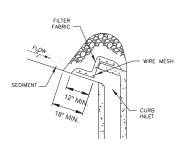
	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS SIEPHEN PLAST CENTER

EROSION CONTTROL PLAN





DROP INLET PROTECTION-GRAVEL

CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.) OR APPROVED ALTERNÀTIVE

NOTES FOR INLET PROTECTION GRAVEL:

- 1- INSTALLATION/APPLICATION CRITERIA:
 - PLACE WIRE MESH (WITH ½ 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

 - PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

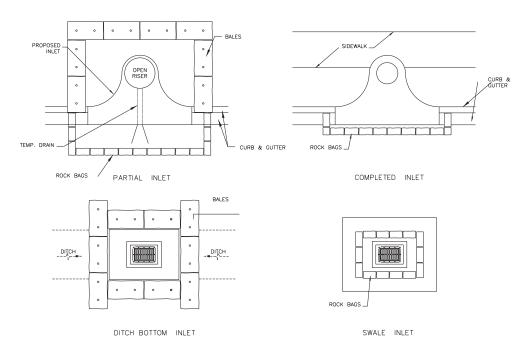
2- MAINTENANCE:

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

3- LIMITATIONS:

SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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

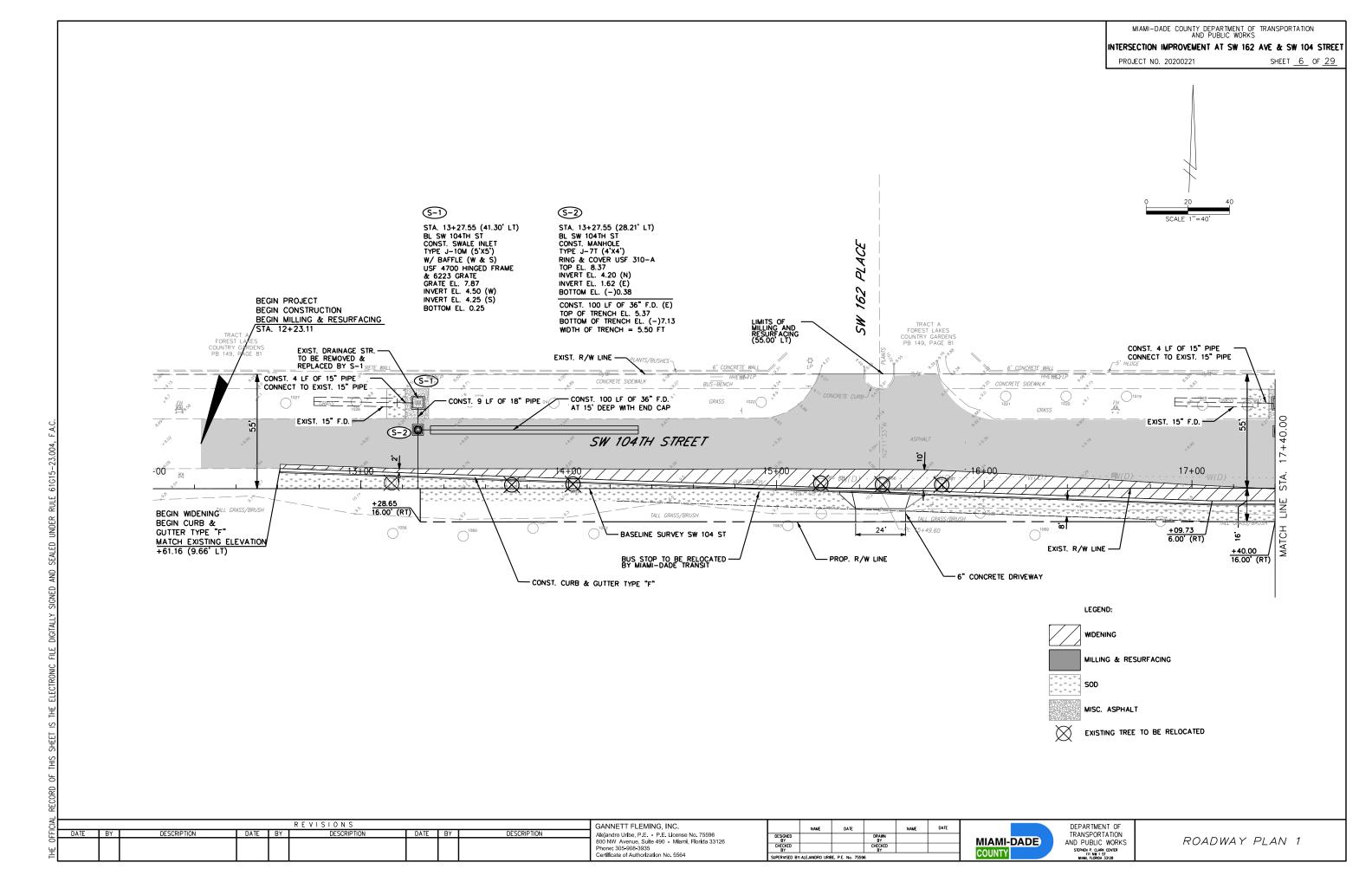
\mathbb{S}						REVISIONS				GANNETT FLEMING, INC.
표[DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Alejandro Uribe, P.E P.E. License No. 75596
\supseteq										800 NW Avenue, Suite 490 - Miami, Florida 33126
풀										Phone: 305-908-3935 Certificate of Authorization No. 5564

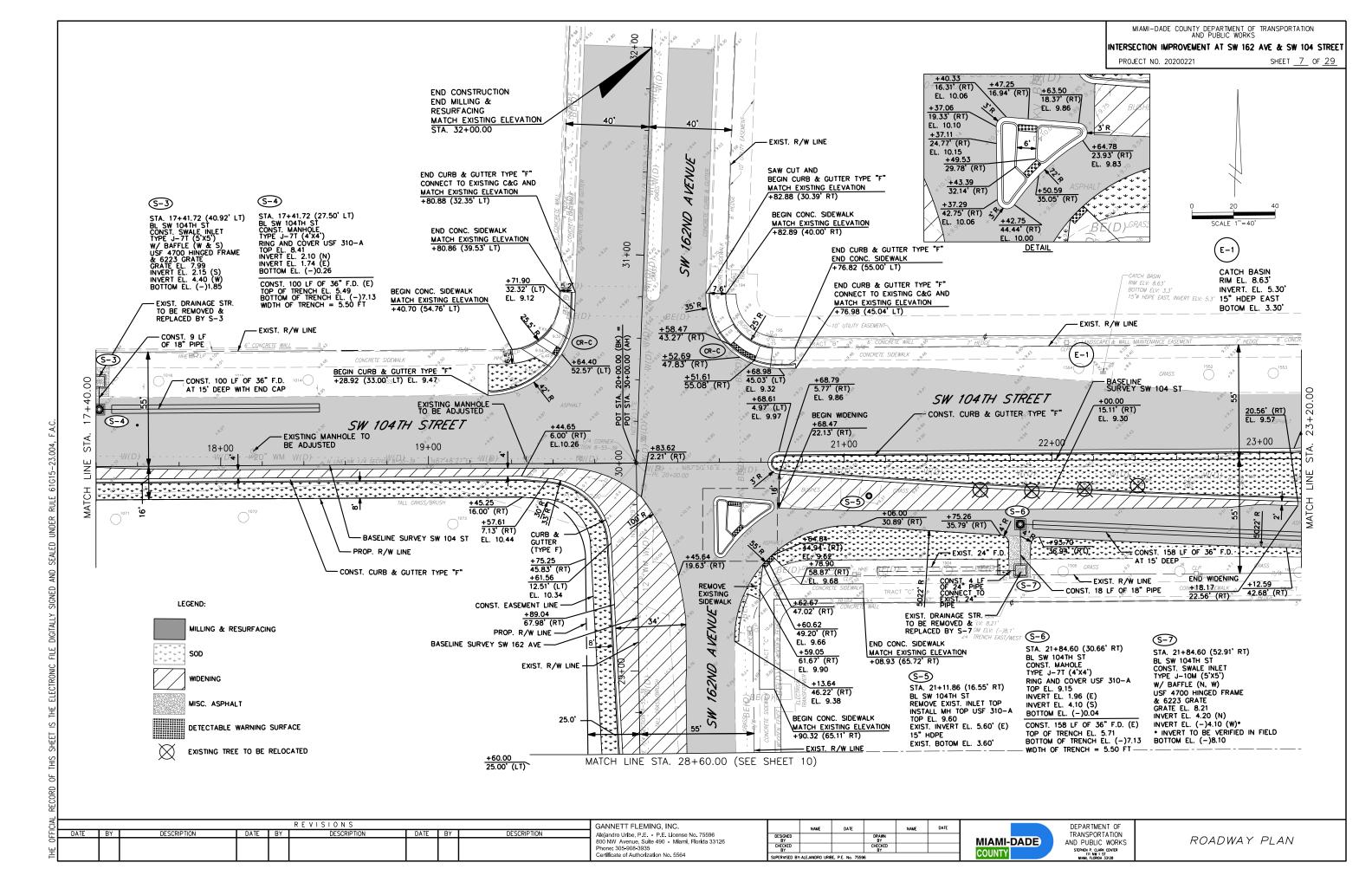
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SUPERVISED BY: ALEJANDRO URIBE, P.E. No. 75596									

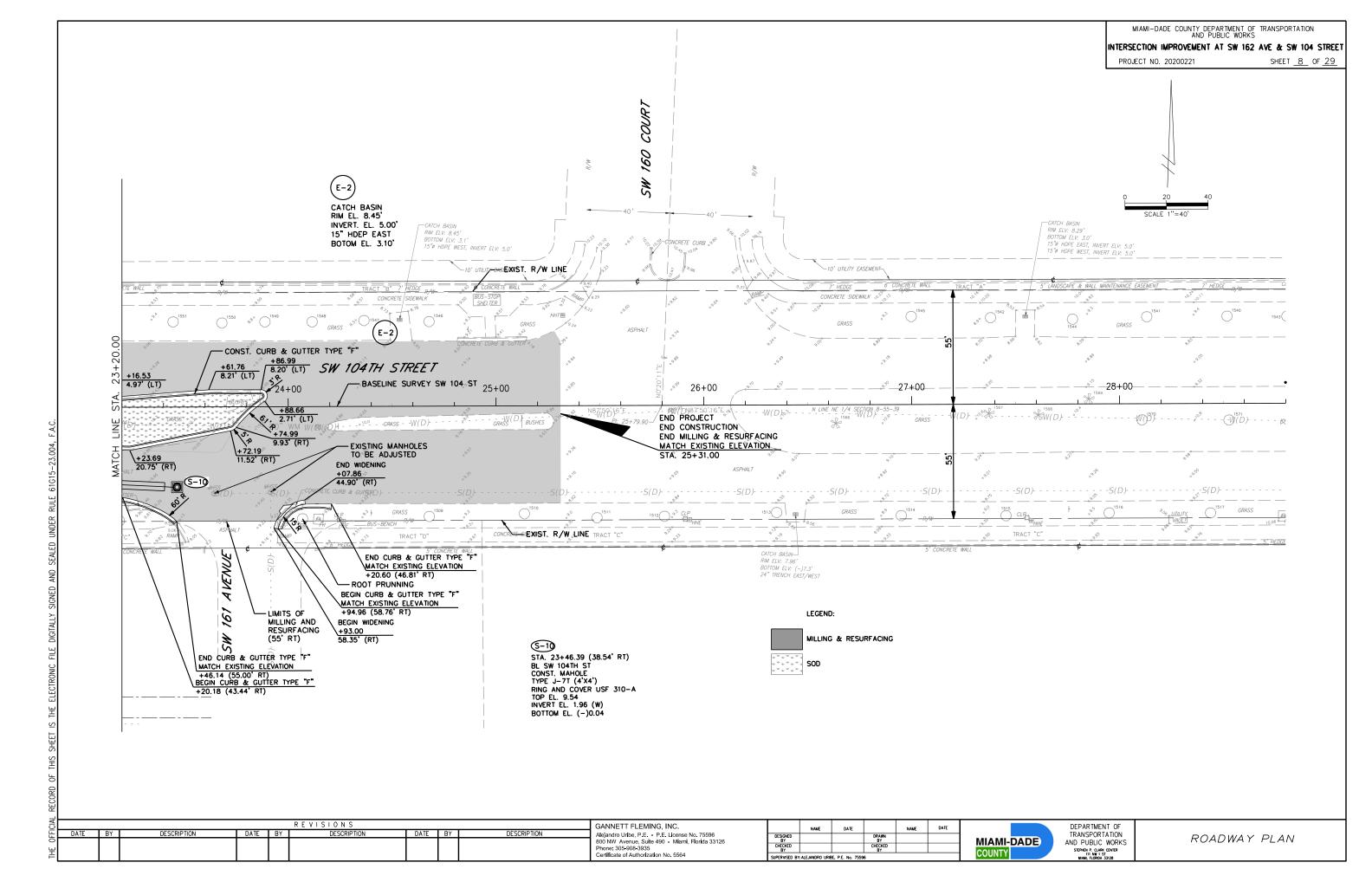


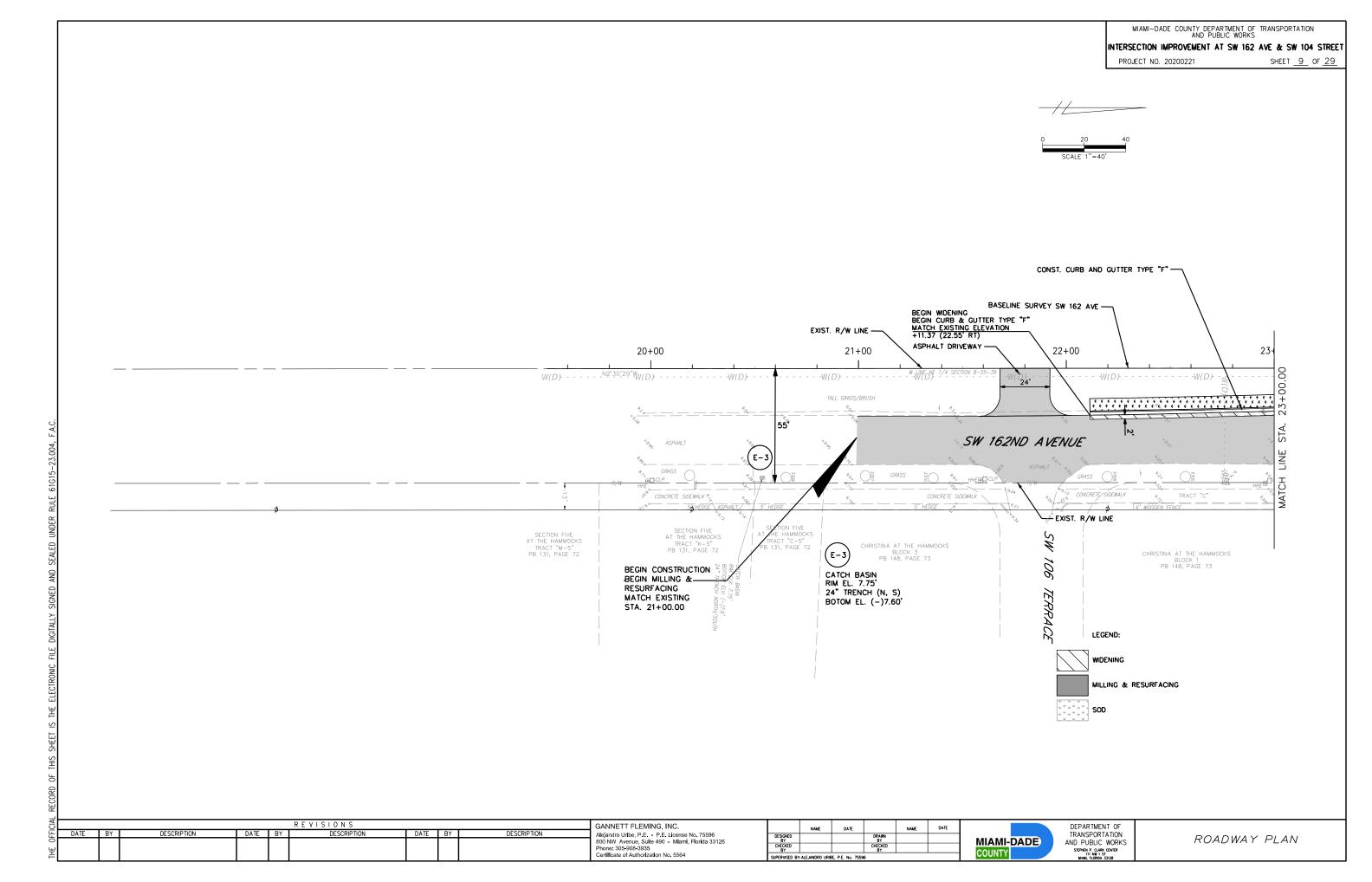
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

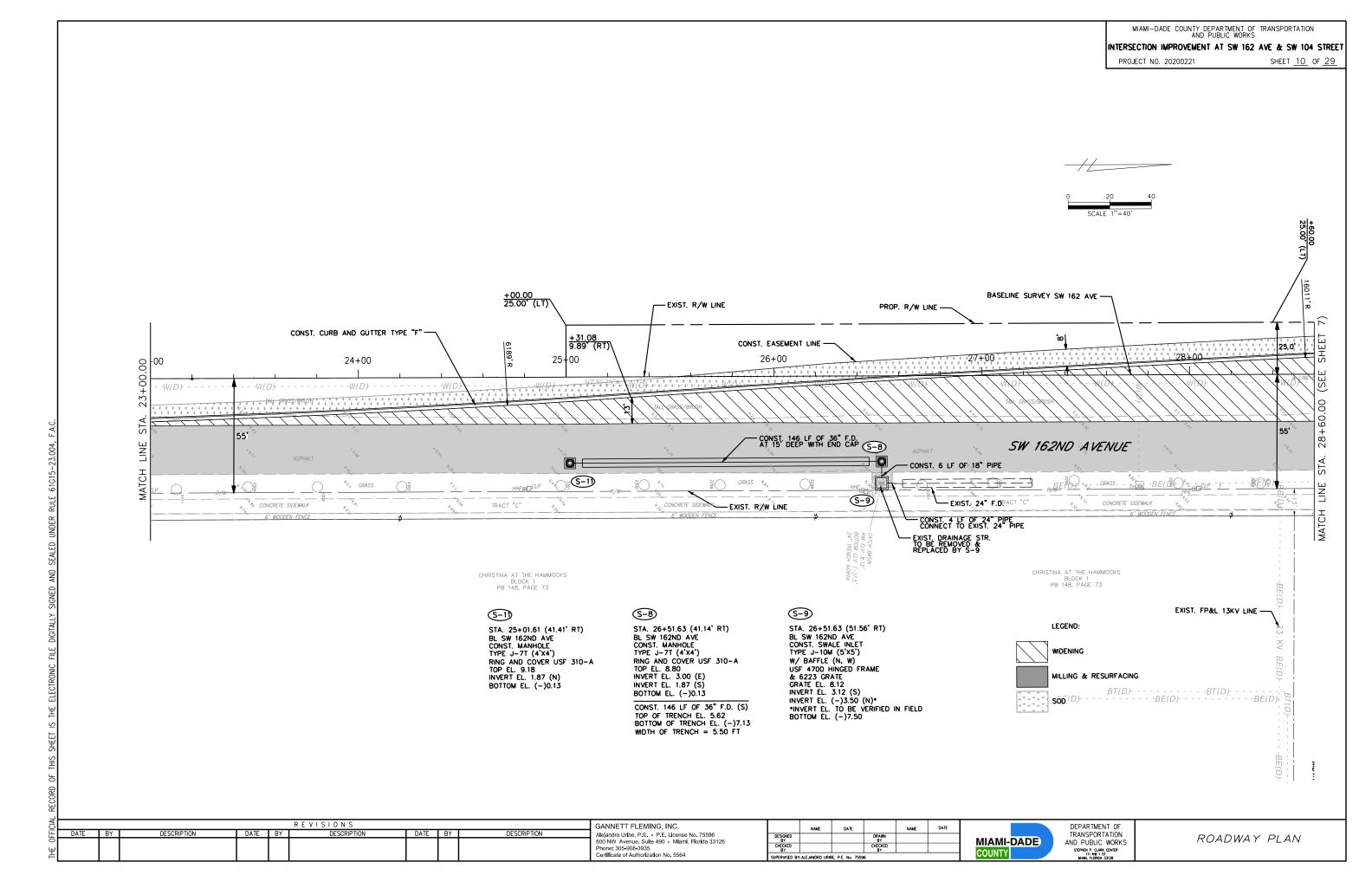
EROSION CONTTROL PLAN

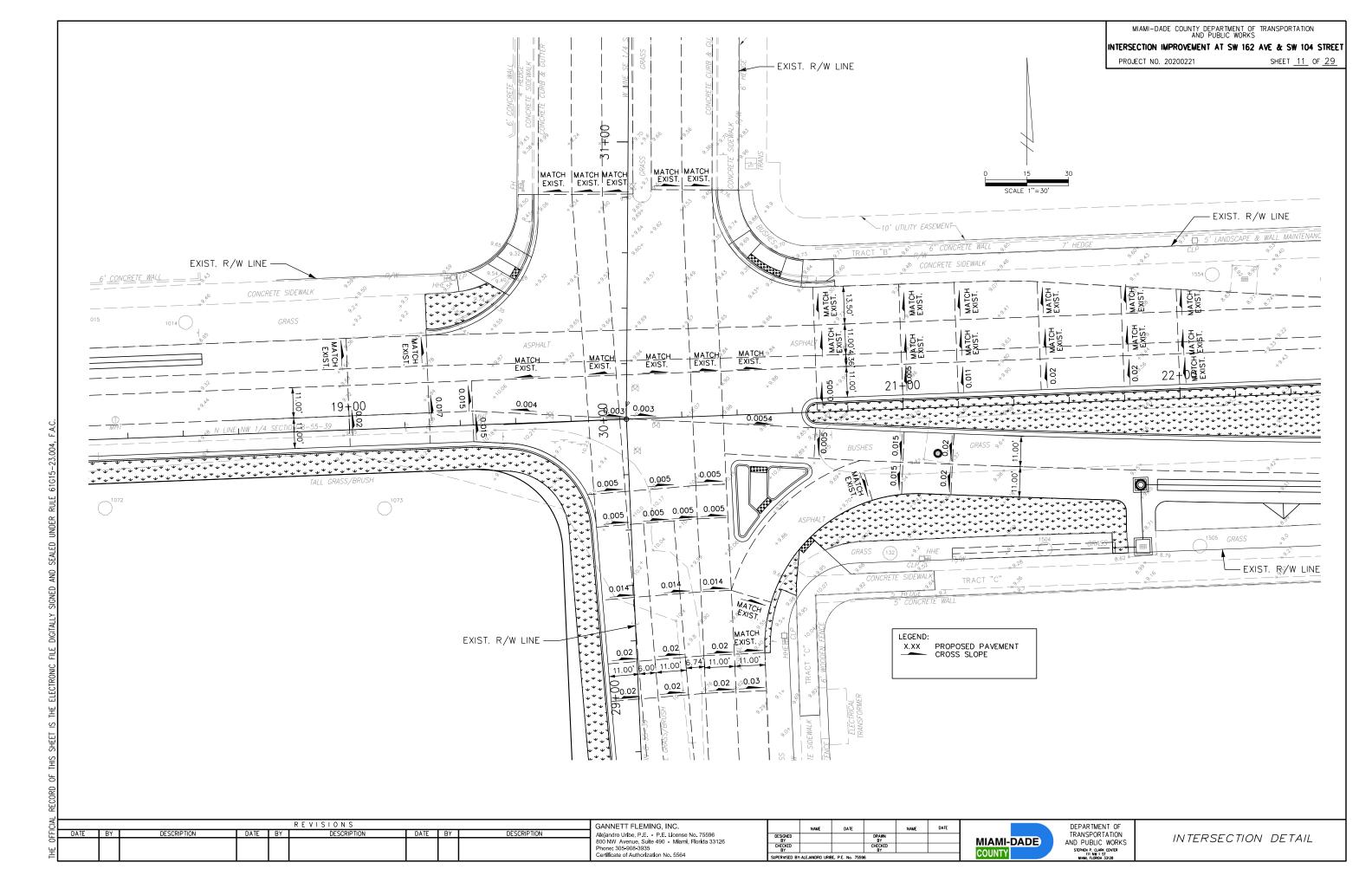


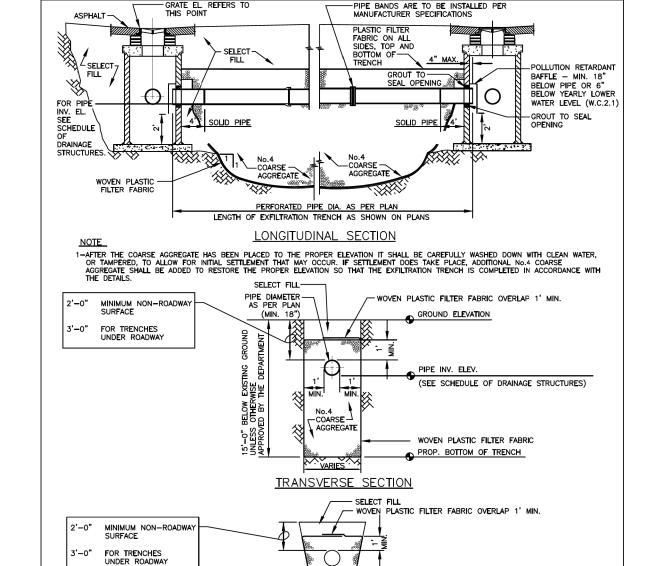












GRATE EL. REFERS TO

ALT. TRANS. SECTION* * MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE—IN BELOW THE WATER TABLE IS LIKELY TO, OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.

VARIES

WOVEN PLASTIC FILTER FABRIC

NOTES (CONTINUED ON NEXT PAGE)

- PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFILAMENT POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.
 MAXIMUM EXFILTRATION RATE WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/lf.

MIAMI-DADE COUNTY	ADDDOVED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	02/08/2011 09/26/2012 10/19/2012	EXFILTRATION TRENCH (FRENCH DRAIN)	1.1 SHEET_1_OF_2

NOTES CONTINUED

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

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

- 5. TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.

 6. TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE.

 7. ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.

 8. PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
- REQUIRED MINIMUM COVER.

 9. NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.

 10. OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES, IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.

 11. OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

GENERAL NOTES FOR PIPE CULVERTS

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

MINIMUM NUMBER	OF PERFORATION	IN PIPE CULVERTS			
PIPE DIAMETER	OUTER SHELL	LINER			
(inches)	No. of ¾" Dia. Holes (PER LIN. FT. OF PIPE)	No. of %" 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			

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	4 DDD 0) (ED	REVISED	STANDARD STORM DRAINAGE DETAIL	SD
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	06-04-86 10-22-13 05-02-81	EXFILTRATION TRENCH (PIPE CULVERT NOTES)	1.1

REVISIONS DESCRIPTION DESCRIPTION

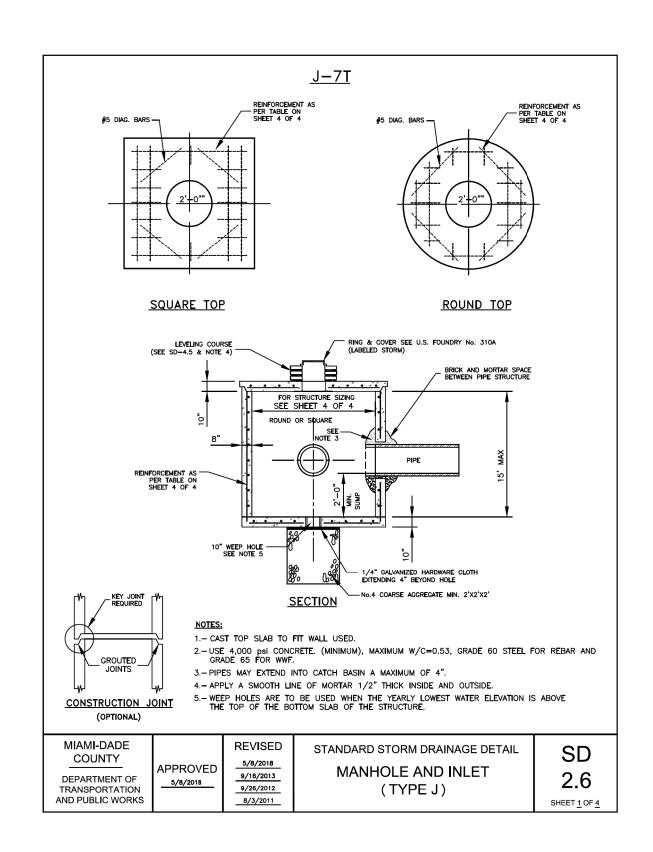
Alejandro Uribe, P.E. - P.E. License No. 75596 800 NW Avenue, Suite 490 - Miami, Florida 33126 Phone: 305-908-3935 Certificate of Authorization No. 5564

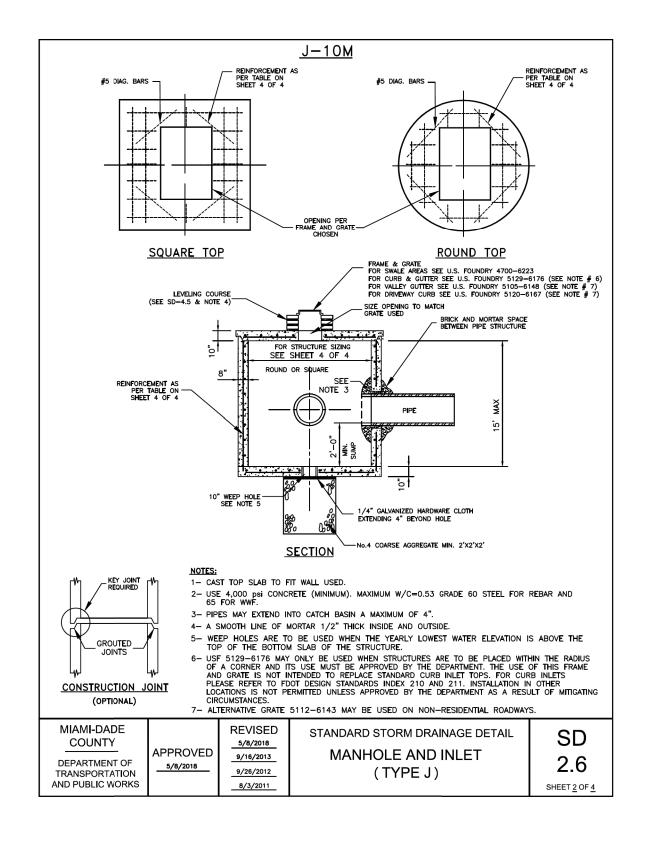


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

DRAINAGE DETAILS

SHEET 11B OF

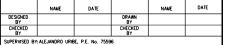




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GANNETT FLEMING, INC.
Alejandro Uribe, P.E. - P.E. License No. 75596
800 NW Avenue, Suite 490 - Miami, Florida 33126
Phone: 305-908-3935
Certificate of Authorization No. 5564

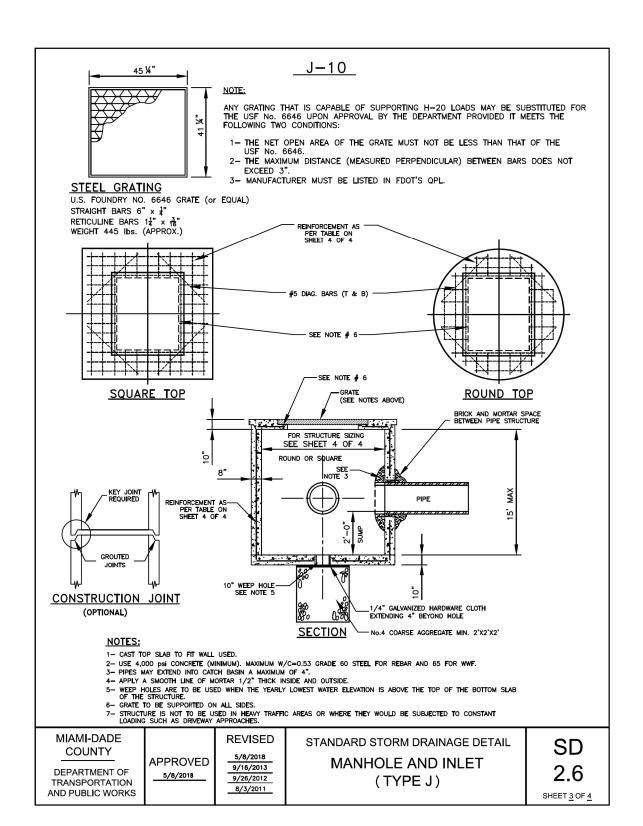




DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STEPHEN FLARK CENTER

DRAINAGE DETAILS

SHEET 11C OF 29



SQUARE STRUCTUR	ructu	RI
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				0 407 1112	STRUCTURE				
Standard Detail	Width (ft) Min.	Length (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	8	8	0.0 - 5.0	8	<u>#4@7"H</u> #4@10"V	10	#6@6" E.W.	10	<u>#5@8.5"</u> E.W.
2.6	8	8	5.1 - 10.0	8	#6@7.5"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	10.1-15.0	8	<u>#7@7"H</u> #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.

ROUND STRUCTURE

Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	5	7	0.0 - 5.0	8	8 x 8 W20 or	10	#6@6"	10	<u>#5@8.5"</u>
					#4@10"E.W		E.W.		E.W.
2.6	5	7	5.1 - 10.0	8	8 x 8 W20 or	10	<u>#6@6"</u>	10	<u>#5@8.5"</u>
2.0	3		3.1 10.0		#4@10"E.W	10	E.W.		E.W.
2.6	5	7	10.1 - 15.0	8	8 x 8 W20 or	10	<u>#6@6"</u>	10	<u>#5@8.5"</u>
2.0	3	,	10.1 - 15.0	0	#4@10"E.W	10	E.W.	10	E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORK	APPROVED 5/8/2018	REVISED 5/8/2018 11/26/2012 8/3/2011	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE J)	SD 2.6 SHEET 4 OF 4
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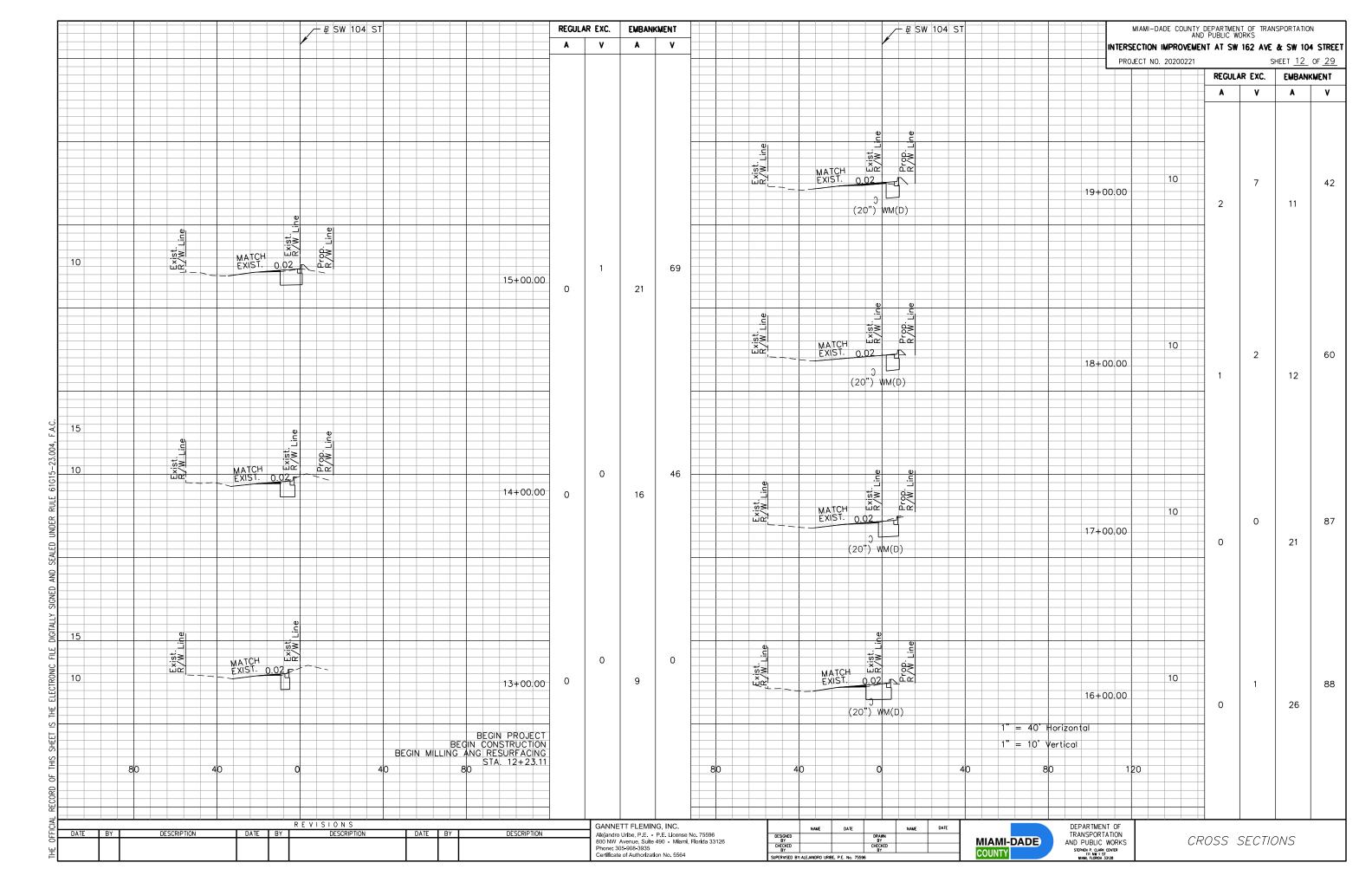
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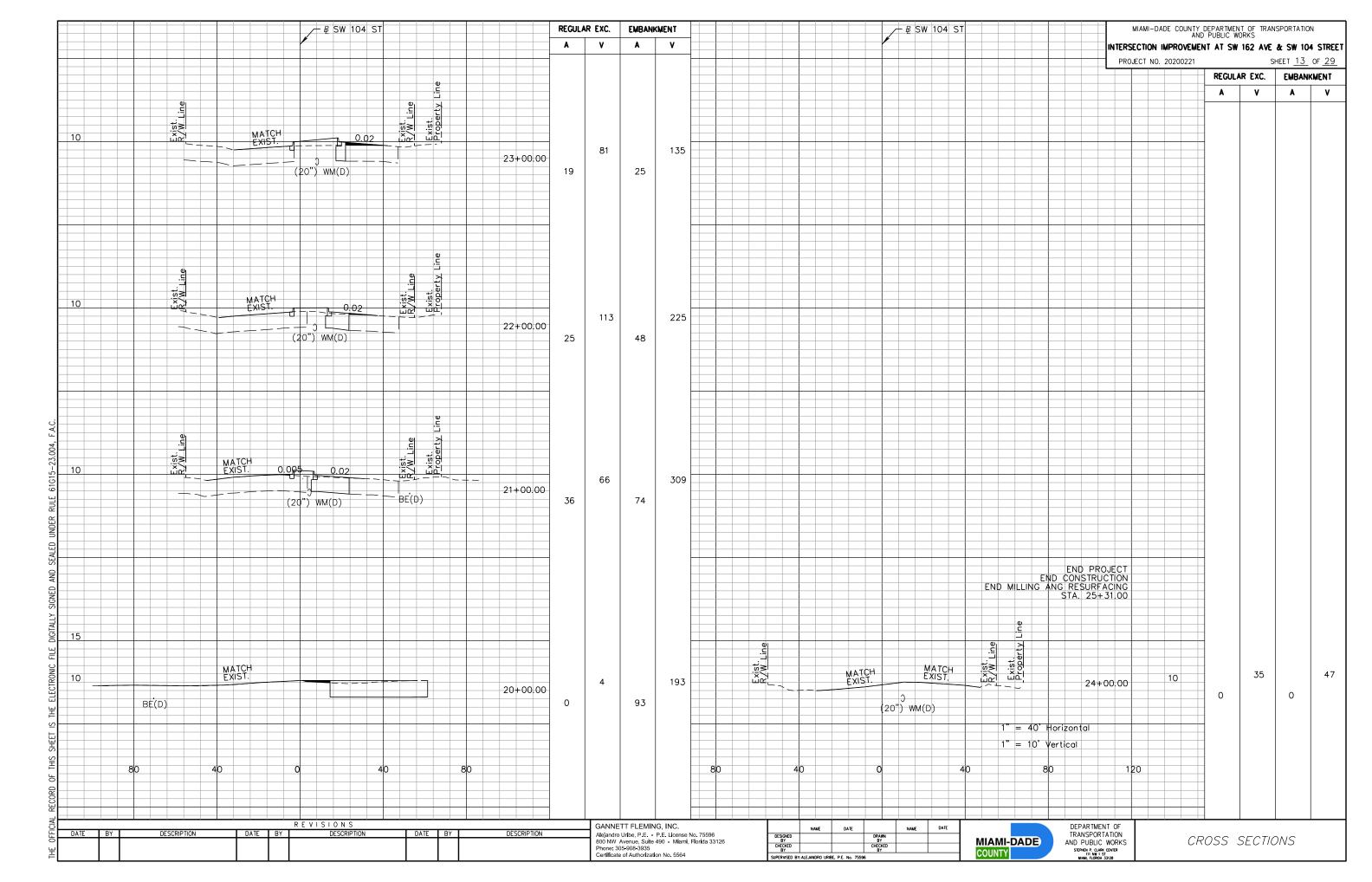
GANNETT FLEMING, INC.
Alejandro Uribe, P.E. - P.E. License No. 75596
800 NW Avenue, Suite 490 - Miami, Florida 33126
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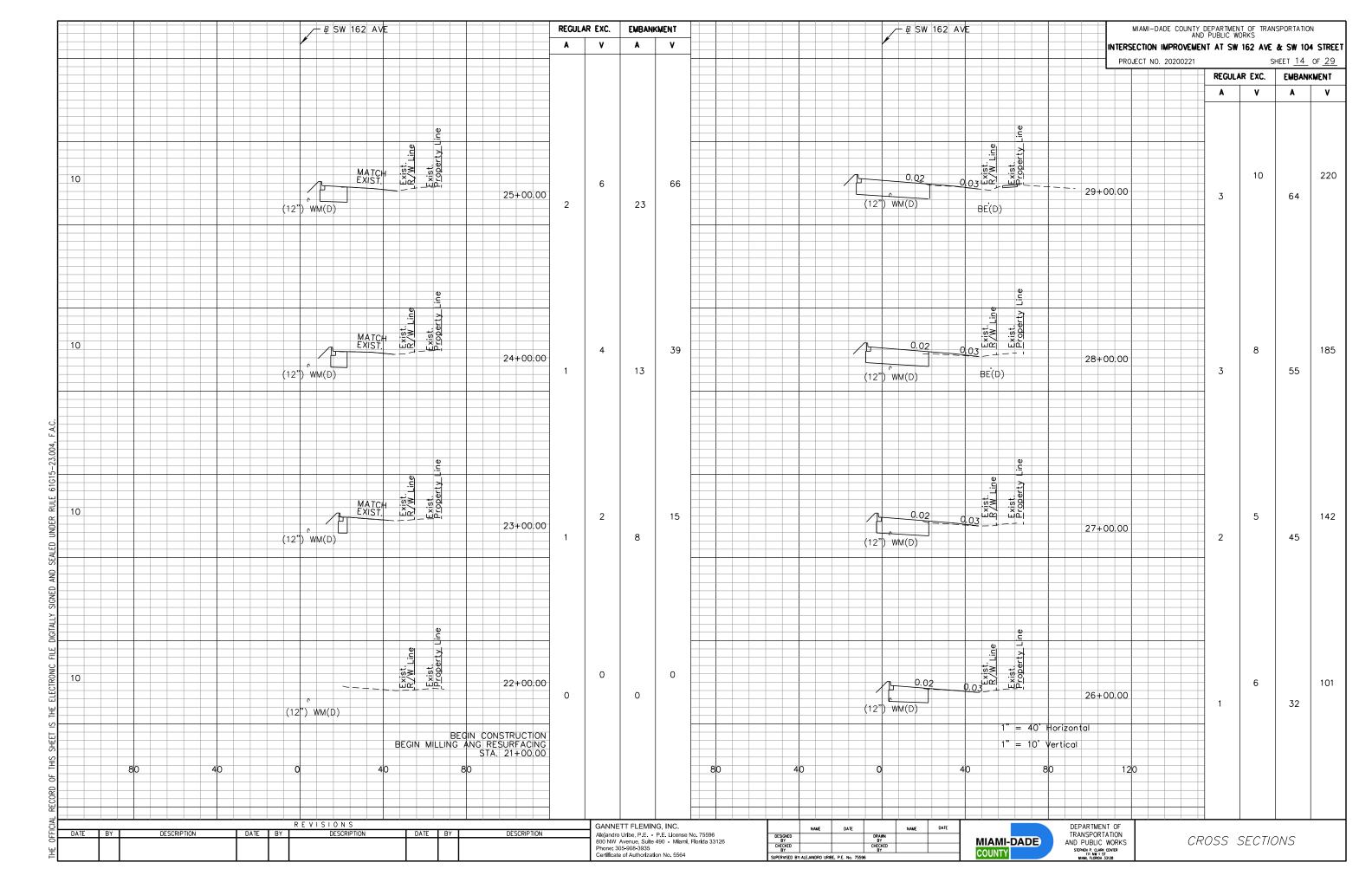


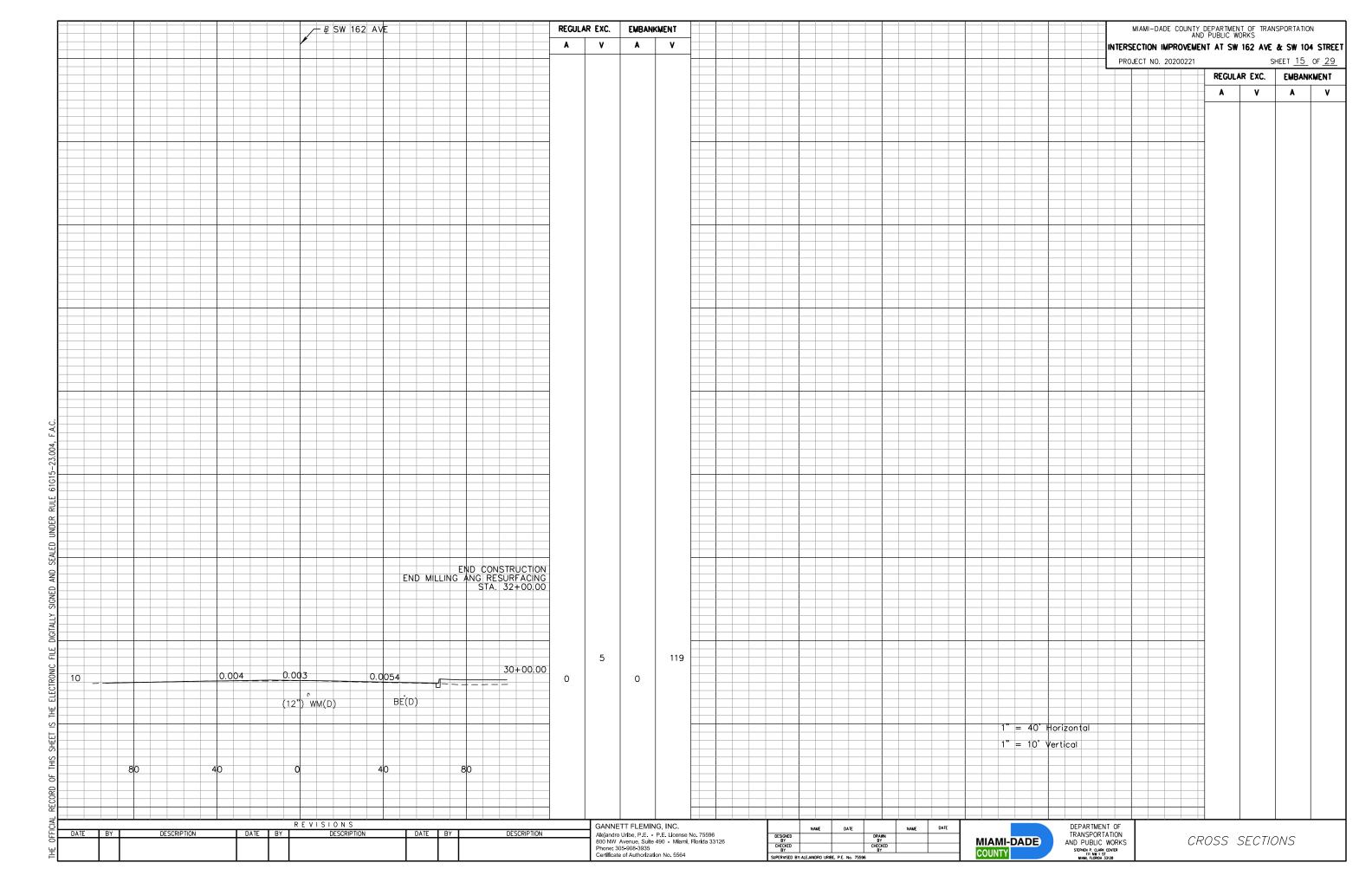
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STEPHEN P. CLARK CENTER 111 NW 11 ST

DRAINAGE DETAILS









TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NO. SHEET 17		SHEET NO. SHEET 18		SHEET NO.	+	T NO.			TOTA SH	L THIS	GRAND TOTAL	
PAT HEIVI NO.	DESCRIPTION	UNII					SHEET 19 ORIG. FINAL		ET 20						
700-20-11	SINGLE POST SIGN (LESS THAN 12)	AS	1	IIIVAL	9	IIIVAL	1	2	IIIVAL	1		14	IIIVAL	14	
700-46-01	REMOVAL OF SIGN AND POST	AS			13			2		1		16		16	
705-10-1A	OBJECT MARKER	EA			1							1		1	
706-1-12A	REFLECTIVE PAVEMENT MARKERS (YELLOW/YELLOW)	EA	134		115		30	7		100		386		386	
706-1-12B	REFLECTIVE PAVEMENT MARKERS (WHITE/RED)	EA			82		32	2		30		146		146	
706-1-12C	REFLECTIVE PAVEMENT MARKERS (MONO-DIRECTIONAL YELLOW)	EA	30									30		30	
706-1-12E	REFLECTIVE PAVEMENT MARKERS (MONO-DIRECTIONAL WHITE)	EA					5					5		5	
710-30	REFLECTIVE PAINT (ISLAND NOSE)	SY	3									3		3	
710-90	PAINTED PAVEMENT MARKINGS-FINAL SURFACE	LS										1		1	
711-11-121	THERMOPLASTIC, WHITE, SOLID (6")	LF	1000		2171		615	402		1324		5512		5512	
711-11-123	THERMOPLASTIC, WHITE, SOLID (12")	LF			325							325		325	
711-11-124	THERMOPLASTIC, WHITE, SOLID (18")	LF			221		28	9		109		367		367	
711-11-125	THERMOPLASTIC, WHITE, SOLID (24")	LF			140							140		140	
711-11-133A	THERMOPLASTIC, WHITE (12" -3'/9'SKIP)	LF					39					39		39	
711-11-151	THERMOPLASTIC, WHITE (6" -2'/4'SKIP & 6"/10' SKIP)	LF			65		100					165		165	
711-11-141	THERMOPLASTIC, WHITE (6" -10'/30'SKIP)	LF			80		60					140		140	
711-11-160	THERMOPLASTIC, WHITE (MESSAGE)	EA			5			2		5		12		12	
711-11-170	DIRECTIONAL ARROW (THERMOPLASTIC)	EA			11		2			4		17		17	
711-11-221	THERMOPLASTIC, YELLOW, SOLID (6")	LF	1790		2116		351	166		2115		6538		6538	
711-11-224	THERMOPLASTIC, YELLOW, SOLID (18")	LF	210		132					187		529		529	
711-11-251	THERMOPLASTIC, YELLOW, 2-4 DOTTED (6")	LF			106		35					141		141	
711-11-122	THERMOPLASTIC, WHITE, SOLID (8")	LF			900		200			156		1256		1256	
711-11-241	SKIP TRAFFIC STRIPE (10'-30') (6" WIDE) (YELLOW, THERMOPLASTIC)	LF						30				30		30	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, 24"	LF			280							280		280	

NOTES

- 1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
- 2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS, SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
- 3. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
- 4. THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF

- 5. THE CONTRACTOR SHALL INSTALL ADVANCED WARNING SIGNS W3-1 (STOP AHEAD) AND W3-3A (SIGNAL AHEAD) ON RESPECTIVE SIDE STREETS ACCORDING TO STANDARDS AS DIRECTED BY THE ENGINEER.
- 6. EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE DESIGN STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
- 7. ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION, IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
- 8. PAY ITEM 711-11-170 INCLUDES REMOVAL OF EXISTING DIRECTIONAL ARROW.
- 9. EXISTING OBJECT MARKERS REMOVAL SHALL BE INCLUDED UNDER CLEARING AND GRUBBING.

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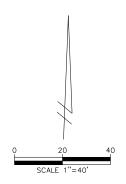


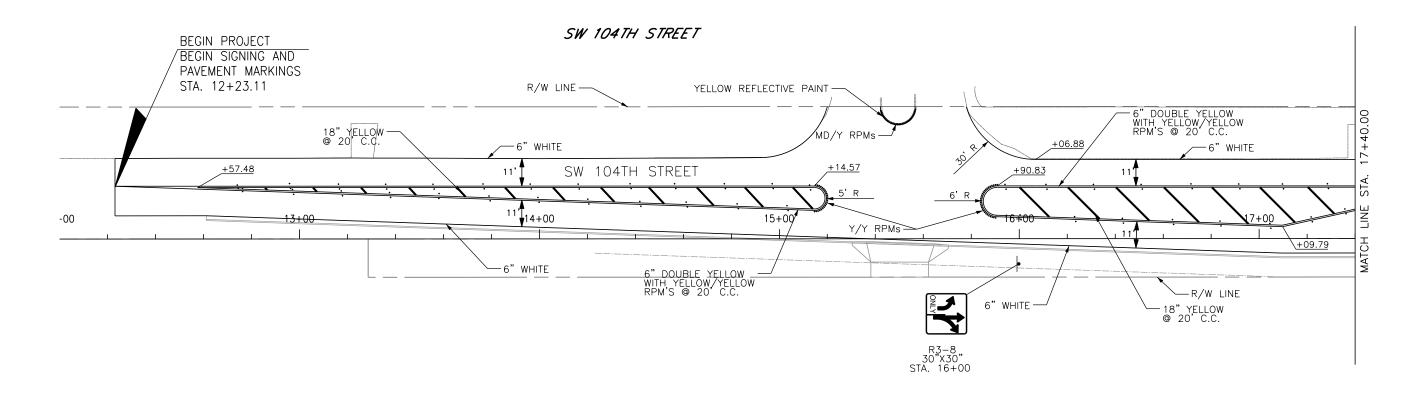
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221

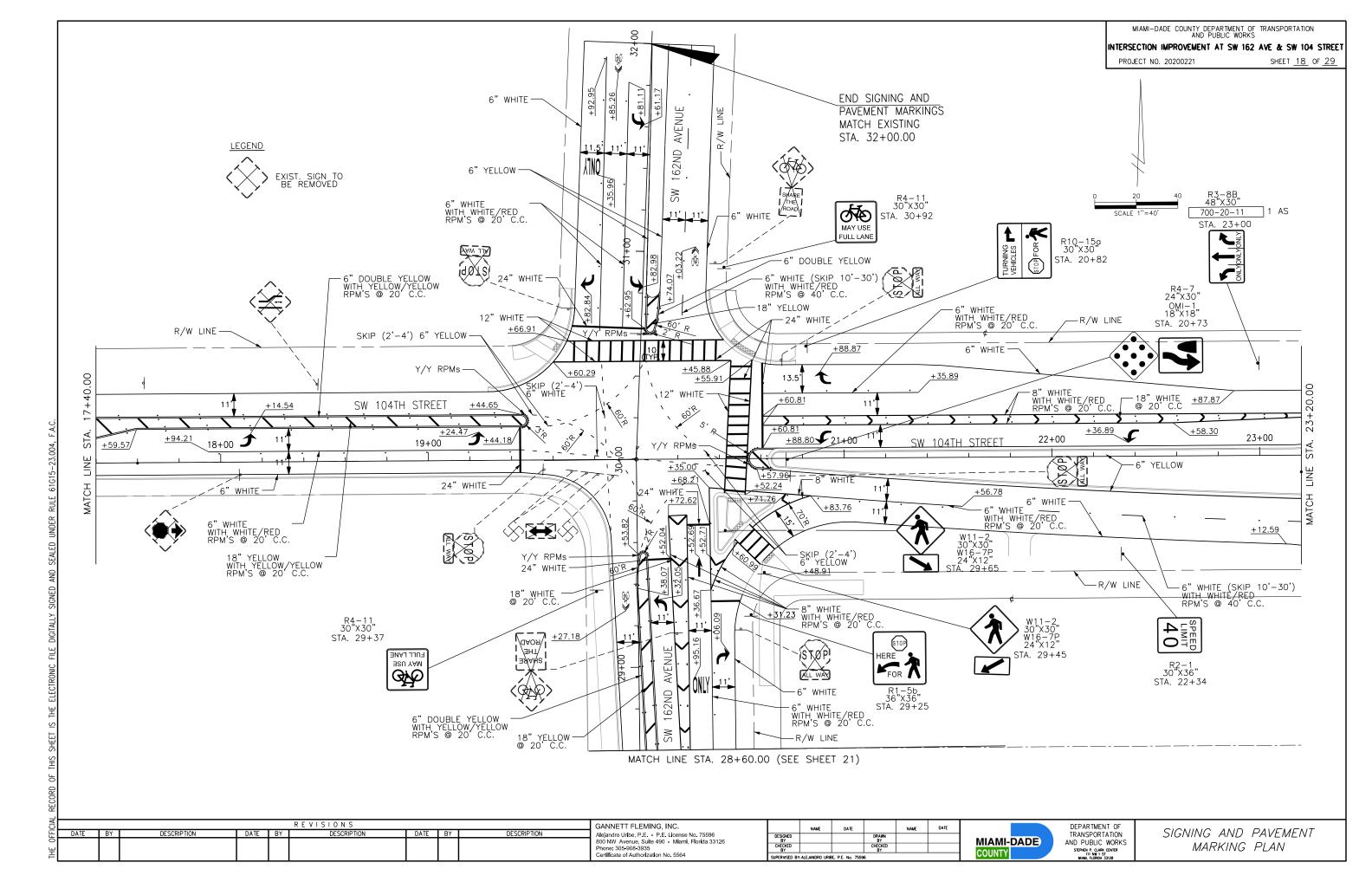
SHEET <u>17</u> OF <u>29</u>

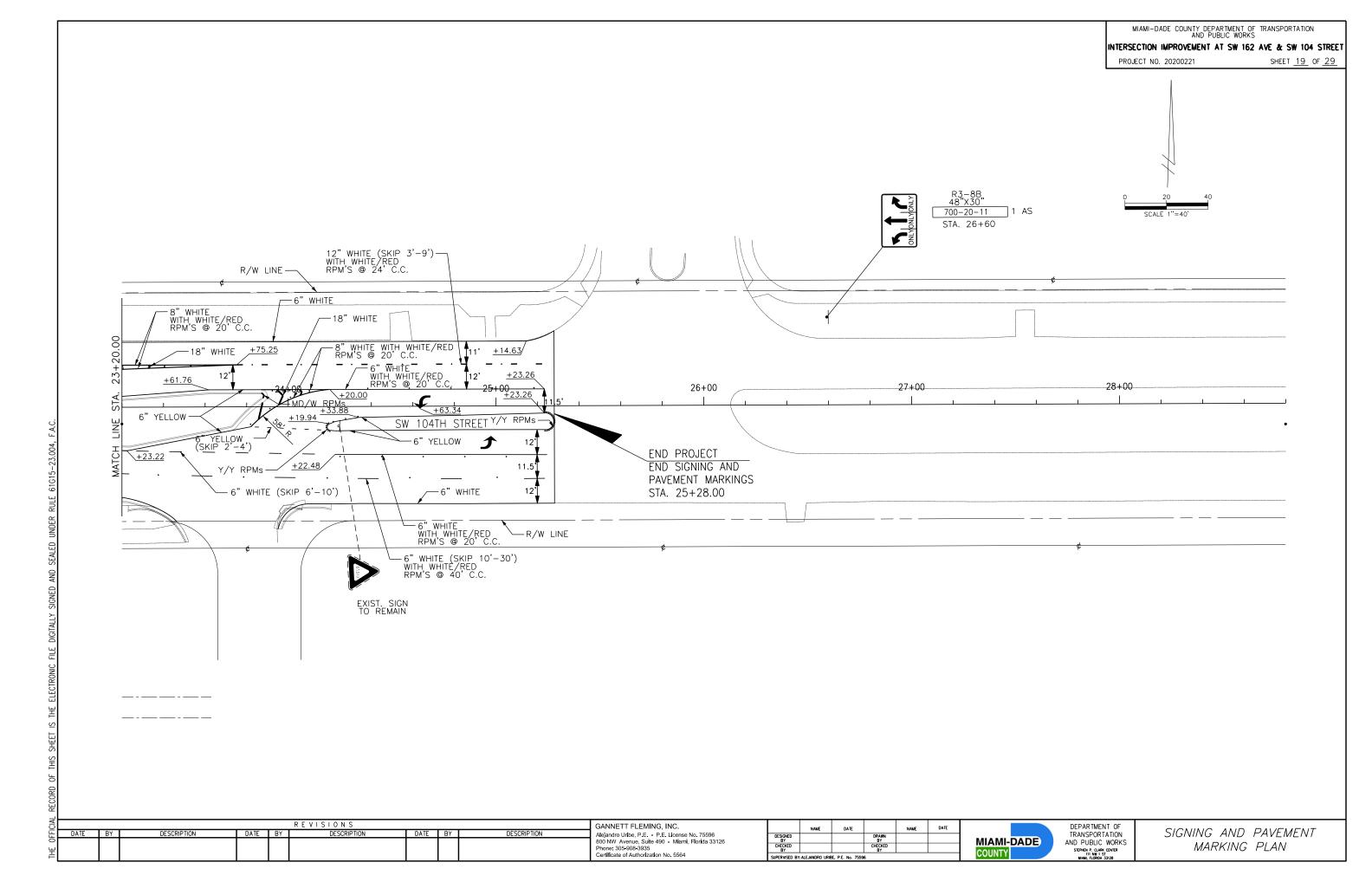


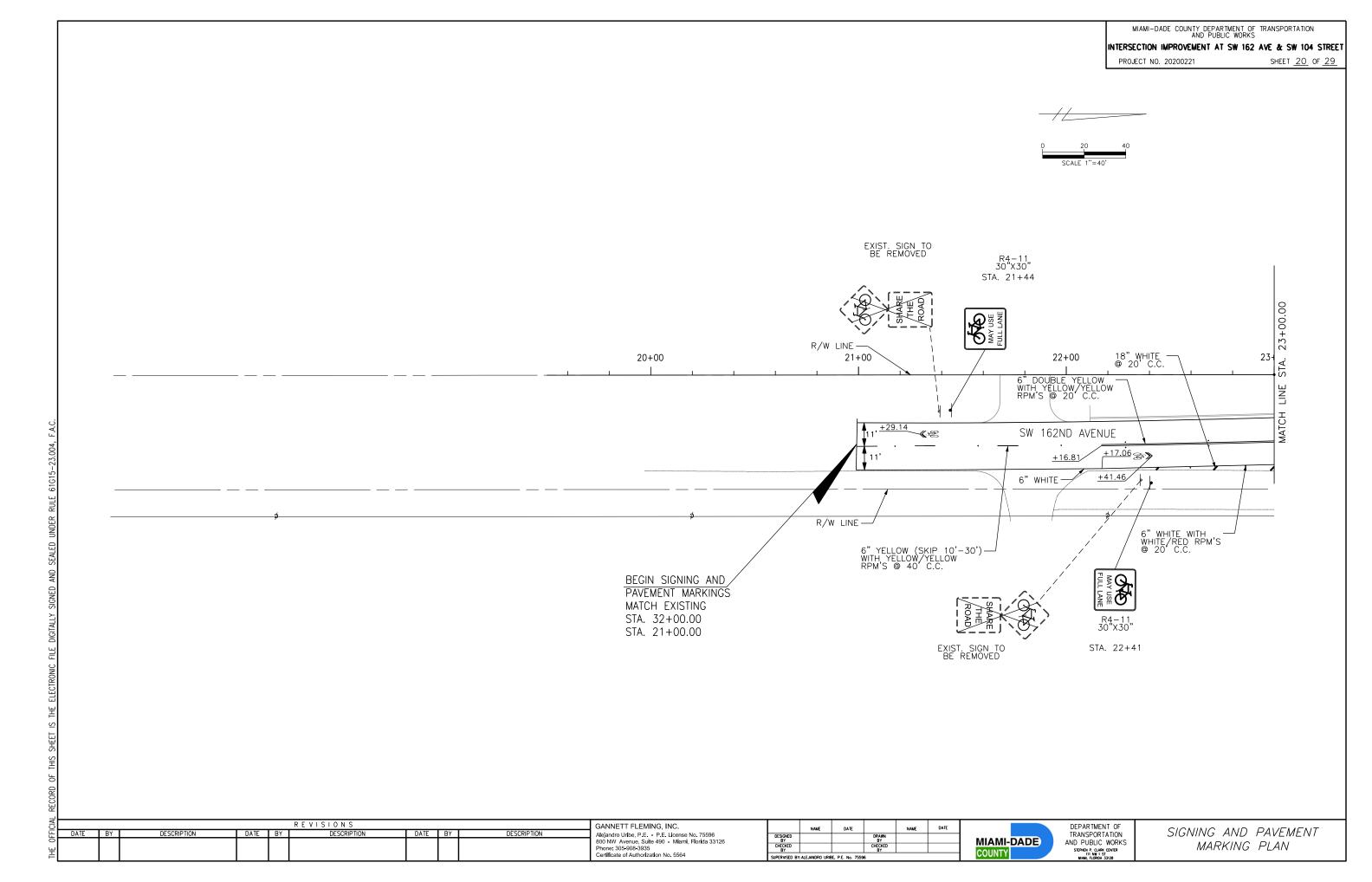


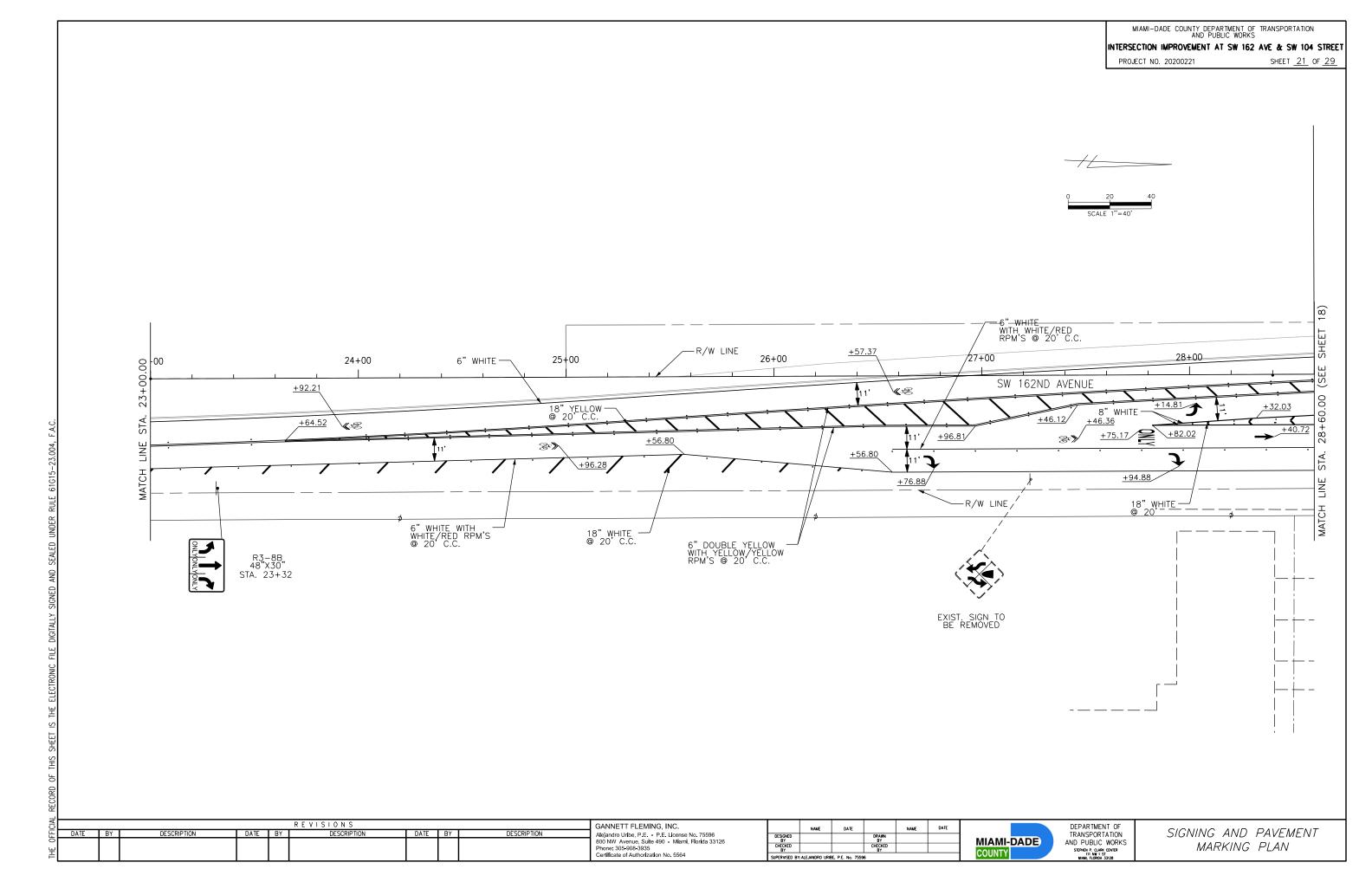
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TABULATION

	MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	
N OF QUANTITIES	INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STR	- 1
	PROJECT NO. 20200221 SHEET <u>22</u> 0F <u>29</u>	<u>29</u>

DECODIDATION	LINIT	SHEET NO.	T		RAND
. DESCRIPTION	UNII				TOTAL
		ORIG. FINAL		RIG. FINAL ORI	G. FINAL
GROUNDING ELECTRODE	LF	115	115	5 115	
CONDUIT, F&I, DIRECTIONAL BORE	LF	645	64	5 645	
CABLE SIGNAL - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI	1	1	1	
PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	29	29	29	
	EA	1	1	1	
ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1	1	1	
ELECTRICAL SERVICE WIRE, F&I	LF	130	130	130	
PRESTRESSED CONCRETE POLE, F&I, TYPE II SERVICE POLE	EA	1	1	1	
ALUMINUM SIGNAL POLE, PEDESTAL	EA	3	3	3	
STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50'	EA	2	2	2	
STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60'	EA	1	1	1	
STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 70'	EA	1	1	1	
VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY	AS	4	4	4	
		4	4	4	
PEDESTRIAN SIGNAL, LED COUNTDOWN, 1 WAY	AS	2	2	2	
PEDESTRIAN SIGNAL, LED COUNTDOWN, 2 WAYS	AS	1	1	1	
VEHICLE DETECTION SYSTEM - VIDEO, F&I CABINET EQUIPMENT	EA	4	4	4	
VEHICLE DETECTION SYSTEM — VIDEO, F&I ABOVE GROUND EQUIPMENT	EA	4	4	4	
PEDESTRIAN DETECTOR, F&I, STANDARD	EA	4	4	4	
TRAFFIC CONTROLLER ASSEMBLY, F&I, MODEL 2070	EA	1	1	1	
SIGN PANEL, F&I, OVERHEAD MOUNT, UP TO 12 SF	EA	1	1	1	
INTERNALLY ILLUMINATED SIGNS, F&I, OVERHEAD MOUNT, 12 - 18 SF	EA	4	4	4	
	DESCRIPTION GROUNDING ELECTRODE CONDUIT, F&I, DIRECTIONAL BORE CABLE SIGNAL — NEW OR RECONSTRUCTED INTERSECTION, F&I PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR ELECTRICAL SERVICE WIRE, F&I PRESTRESSED CONCRETE POLE, F&I, TYPE II SERVICE POLE ALUMINUM SIGNAL POLE, PEDESTAL STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50' STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60' STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 70' VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY VEHICULAR TRAFFIC SIGNAL, F&I, ALUMINUM, 5 SECTION, 1 WAY PEDESTRIAN SIGNAL, LED COUNTDOWN, 1 WAY PEDESTRIAN SIGNAL, LED COUNTDOWN, 2 WAYS VEHICLE DETECTION SYSTEM — VIDEO, F&I CABINET EQUIPMENT VEHICLE DETECTION SYSTEM — VIDEO, F&I CABINET EQUIPMENT VEHICLE DETECTION SYSTEM — VIDEO, F&I ABOVE GROUND EQUIPMENT PEDESTRIAN DETECTOR, F&I, STANDARD TRAFFIC CONTROLLER ASSEMBLY, F&I, MODEL 2070 SIGN PANEL, F&I, OVERHEAD MOUNT, UP TO 12 SF INTERNALLY ILLUMINATED SIGNS, F&I, OVERHEAD MOUNT, 12 — 18 SF	GROUNDING ELECTRODE CONDUIT, F&I, DIRECTIONAL BORE CABLE SIGNAL – NEW OR RECONSTRUCTED INTERSECTION, F&I PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE EA PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE EA ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR AS ELECTRICAL SERVICE WIRE, F&I LF PRESTRESSED CONCRETE POLE, F&I, TYPE II SERVICE POLE ALUMINUM SIGNAL POLE, PEDESTAL EA STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 50' STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 60' STEEL MAST ARM ASSEMBLY, F&I, SINGLE ARM 70' EA VEHICULAR TRAFFIC SIGNAL, F&I ALUMINUM, 3 SECTION, 1 WAY VEHICULAR TRAFFIC SIGNAL, F&I, ALUMINUM, 5 SECTION, 1 WAY AS PEDESTRIAN SIGNAL, LED COUNTDOWN, 1 WAY AS PEDESTRIAN SIGNAL, LED COUNTDOWN, 2 WAYS VEHICLE DETECTION SYSTEM — VIDEO, F&I CABINET EQUIPMENT EA TRAFFIC CONTROLLER ASSEMBLY, F&I, MODEL 2070 EA SIGN PANEL, F&I, OVERHEAD MOUNT, UP TO 12 SF	DESCRIPTION DESCR	DESCRIPTION	DESCRIPTION

NOTES:

- 1. GROUND READINGS SHALL BE OBTAINED BY APPROVED METHODS AS PER SECTION 620 OF THE STANDARD SPECIFICATIONS, OR BY METHODS SUBMITTED AND APPROVED BY THE ENGINEER.
- 2. GOVERNING STANDARDS AND SPECIFICATIONS ARE: THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE FDOT FY 2020-21 STANDARDS PLANS AND JANUARY 2021 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE MIAMI-DADE COUNTY TECHNICAL SPECIAL PROVISIONS FOR TRAFFIC SIGNALS.
- 3. THE CONTRACTOR SHALL BE AWARE THAT EXISTING UNDERGROUND AND ABOVEGROUND FACILITIES WITHIN THE BOUNDS OF WORK MAY NOT BE SHOWN IN THE SIGNAL PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING EXISTING UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND CURB CUT RAMPS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE REFLECTED IN THE CONTRACTOR'S BID UNIT PRICE FOR ELECTRICAL POWER SERVICE ASSEMBLY.
- 5. THE SIGNAL MAINTAINING AGENCY IS MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS. SIGNAL OPERATION TIMINGS ARE TO BE PROVIDED BY MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, TRAFFIC SIGNALS AND SIGNS DIVISION. CONTACT SHOULD BE MADE WITH THE TRAFFIC CONTROL CENTER LOCATED AT:

MIAMI-DADE COUNTY TRAFFIC SIGNAL AND SIGN DIVISION 7100 N.W. 36TH STREET MIAMI, FLORIDA 33166 TELEPHONE: (305) 592-3580

- 6. PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS SHALL HAVE A MINIMUM OF 4" CLEARANCE FROM ALL JOINTS AND EDGES OF SIDEWALK. THERE SHALL BE NO EXPANSION MATERIAL AROUND PULL BOXES, MAST ARM FOUNDATIONS AND CONTROLLER FOUNDATIONS. PULL BOXES SHALL NOT BE PLACED IN PEDESTRIAN RAMPS.
- 7. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED.
- 8. THE LOCATION OF ALL POLES, PEDESTALS AND OTHER EXCAVATION SHALL BE CONSIDERED APPROXIMATE DUE TO THE POTENTIAL OF CONFLICT WITH UNDERGROUND UTILITIES. SLIGHT ADJUSTMENTS AS DIRECTED BY THE ENGINEER MAY BE NECESSARY TO SATISFY SAFETY CODE, OR CLEAR UTILITIES.

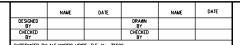
- 9. ALL PULL BOXES HAVING METAL LIDS SHALL RECEIVE 20' OF GROUNDING ELECTRODES EXCEPT WHERE THOSE PULL BOXES ARE ASSOCIATED WITH A POLE, WHICH THEN CAN BE GROUNDED WITH THE POLE GROUNDING ELECTRODES.
- 10. ALL CONDUIT SHALL BE 2 INCH MINIMUM UNLESS OTHERWISE SPECIFIED.
- 11. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL LENSES FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHALL BE GLASS.
- 12. THE CONTRACTOR SHALL VERIFY ALL MAST ARM ELEVATIONS AND LOCATIONS INCLUDING POSSIBLE UTILITY CONFLICTS PRIOR TO ORDERING MAST ARMS. THE CONTRACTOR SHALL VERIFY MAST ARM ROADWAY ORIENTATION PRIOR TO PLACEMENT. MAST ARMS OF IMPROPER SIZE OR INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL MAST ARM ELEVATIONS WILL MEET MUTCD AND MIAMI-DADE COUNTY REQUIREMENTS FOR LOW POINT OF CLEARANCE PRIOR TO ORDERING MAST ARMS.
- 13. THE CONTRACTOR IS PROHIBITED FROM DEWATERING INTO SURFACE WATER. STANDARD PRACTICES SHALL BE EMPLOYED TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING INLETS.
- 14. WHEN FINAL INSPECTION OF THE PROJECT IS CONDUCTED, THE CONTRACTOR SHALL FURNISH THE INSPECTOR WITH TWO COMPLETE SETS OF AS-BUILT PLANS.
- 15. ALL TRAFFIC SIGNALS TO BE MAINTAINED ERECT AND IN GOOD CONDITION UNLESS TO BE REMOVED PER PLANS. STOP, YIELD. DO NOT ENTER, OR ONE WAY SIGNS SHALL BE RE-ERECTED IMMEDIATELY IF BENT OR KNOCKED DOWN. ALL OTHER SIGNS TO BE REPAIRED WITHIN 24 HOURS.
- 16. AS SOON AS THE CONTRACT IS AWARDED, THE CONTRACTOR WILL LAY OUT ARM POLES, REQUEST UTILITIES LOCATIONS IN THE MAST ARM AREA, CONTACT THE PROJECT ENGINEER AND JOINTLY DETERMINE THE POLE LOCATION AND THE MAST ARM LENGTH. CONTRACTOR SHALL THEN SUBMIT SHOP DRAWINGS.
- 17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR SIGNAL INSTALLATION.

PAY ITEM FOOTNOTE:

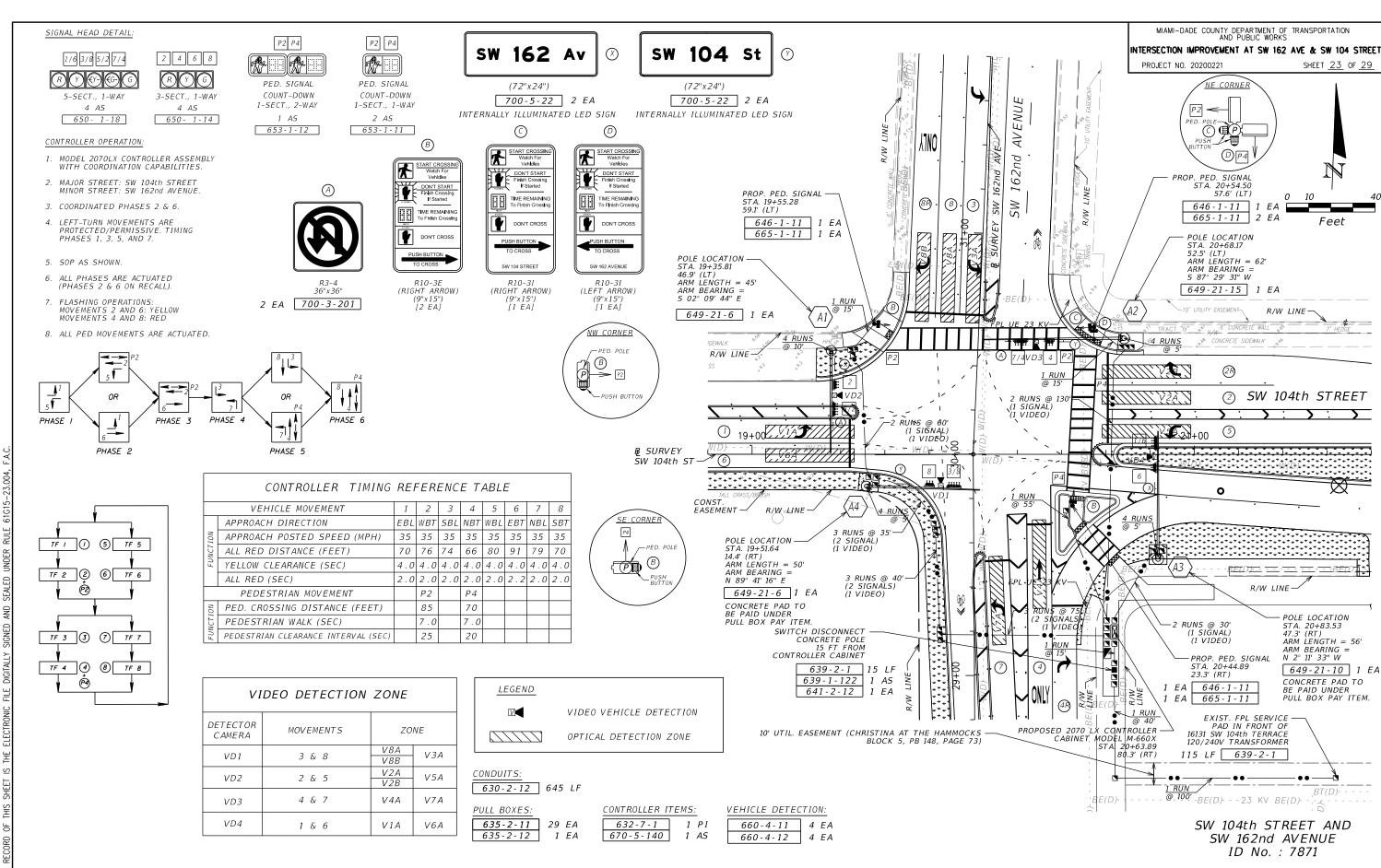
- 1. PAY ITEM 630-2-12 INCLUDES COST OF CONDUIT PLACED UNDER EXISTING PAVEMENT (ROADWAY, DRIVEWAY, OR SIDEWALK) WHETHER BY DIRECTIONAL BORE OR OPEN TRENCH.
- 2. PAY ITEM 670-5-140 INCLUDES COST OF FURNISHING AND INSTALLING OF A WIRELESS COMMUNICATION CELLULAR ROUTER - DIGI TRANSPORT WR31 OR DIGI TRANSPORT WR44.

					REVISIONS				GANNETT FLEMING
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	Fabricio M, Savio, P.E.
									800 NW Avenue, Suite 4 Phone: 305-908-3935 Certificate of Authorizatio

GANNETT FLEMING, INC.
Fabricio M, Savio, P.E P.E. License No. 77354
Fabricio M, Savio, P.E P.E. License No. 77354 800 NW Avenue, Suite 490 - Miami, Florida 33126
Phone: 305-908-3935 Certificate of Authorization No. 5564
Certificate of Authorization No. 5564







DESCRIPTION DESCRIPTION

REVISIONS

GANNETT FLEMING, INC. Fabricio M, Savio, P.E. - P.E. License No. 77354 800 NW Avenue, Suite 490 - Miami, Florida 33126 Phone: 305-908-3935 Certificate of Authorization No. 5564

DEPARTMENT OF TRANSPORTATION MIAMI-DADE AND PUBLIC WORKS

SIGNALIZATION PLAN

1 EA

2 EA

R/W LINE-

- POLE LOCATION

ARM BEARING = N 2° 11' 33" W

ARM LENGTH = 56'

CONCRETE PAD TO

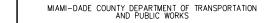
BE PAID UNDER PULL BOX PAY ITEM

BT(D)-

649-21-10 1 EA

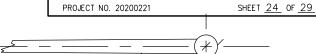
STA. 20+83.53 47.3' (RT)

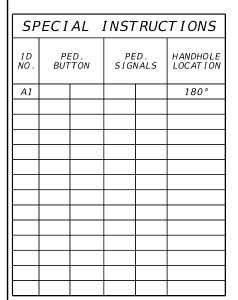
Feet



INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221





ARM NO.1 - SINGLE ARM POLE OR LONGEST ARM FOR DOUBLE ARM POLE. V2 VIDEO CAMERA V2 VIDEO CAMERA Н3 SIGN D SIGN C ⊤ SIGN B SIGN A W2 W3| MOUNTING HEIGHT (ARM M.H.) TOTAL ARM LENGTH TOP OF POLE FOUNDATION ELEVATION -CROWN ELEVATION -

1. DEGREES ARE MEASURED COUNTER CLOCKWISE FROM ARM. HANDHOLE LOCATION IS 0°, UNLESS OTHERWISE INDICATED.

2. MAST ARM	SHALL NOT BE MANUFACTURED WITH
TERMINAL	COMPARTMENT.

											SIGNAL	DAT	ΓΑ						VIDEO	DATA	ı								S	3 I GN	DAT	TA						
ID	SH	EET	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY	CROWN	SIGNAL	BACK	PED.		DIS	TANC	CE FRO	ом РО	LE			VIDEO	DISTANCE	E VIDEO CAMERA ID No.	DISTANCE	TOTAL ARM	ARM	ANGLE BETWEEN DUAL ARMS 90/270		DIS	TANCE I	FROM	POLE	- / H	1E I GH	IT AN	D WIC	тн о	F 510	GN		PAINT COLOR
No.	. N	0.	BY STA.	ELEVATION	No.	ELEV.	V/H	Y/N	Y/N	1	* 2	*	3	*	4	*	5	* ID No.	POLE V1	ID No.	POLE V2	LENGTH	М.Н.	ARMS 90/270	Α	H1 W1	В	H2	W2	С	Н3	W3	D	Н4	W4	Ε	H5 V	V5 COLOR
A1	1	18	19+35.81	-	1	10.10	Н	Υ	N	14.0'	3 25.0'	5						VD-2	20.0'			45 '	20.0'		5.0'	2.0 6.0	32.5'	3.0	3.0									
	-				. 2																														iΠ			
A2	1	18	20+68.17	-	1	9.57	Н	Y	N	31.5'	3 44.5'	5						VD-3	37.5'			62'	19.0'		25.0'	2.0 6.0	51.0'	3.0	3.0									
	-				2																																	
A3	1	18	20+83.53		1	9.99	Н	Υ	N	40.0'	3 50.5'	5						VD-4	44.5'			56'	20.0'		30.0'	2.0 6.0)											
	-				2																																	
A4	1	18	19+51.64	-	1	10.45	Н	Y	N	27.0'	3 38.0'	5						VD - 1	33.0'			50'	19.5'		14.5'	2.0 6.0)	'										
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* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

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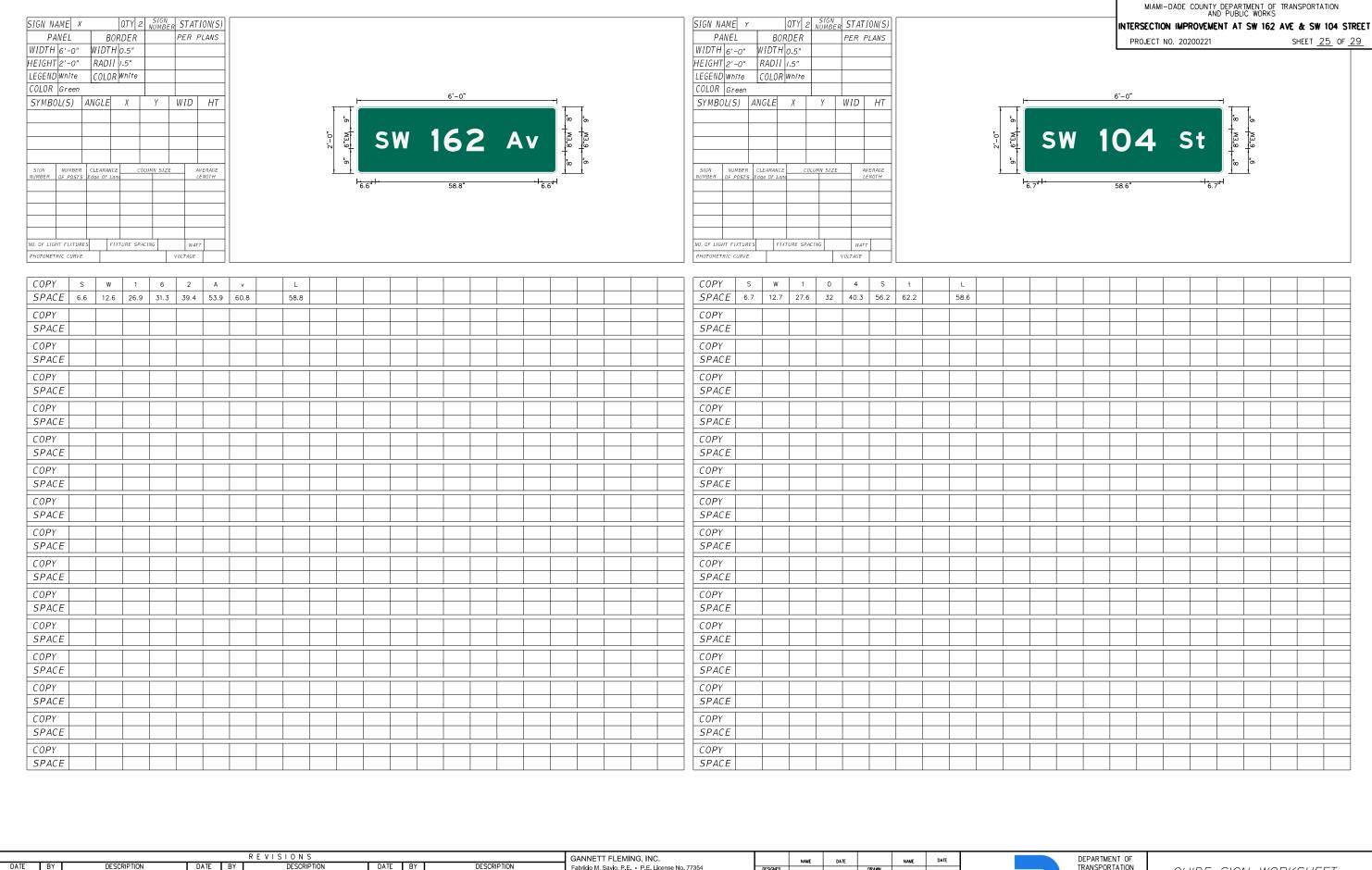
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800 NW Avenue, Suite 490 - Miami, Florida 33126 Phone: 305-908-3935
Phone: 305-908-3935
Certificate of Authorization No. 5564

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		

MIAMI-	DADE
COUNTY	

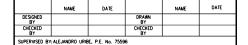
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STEPHEN P. CLARK CENTER ITT NOT IS ST MANAT, FLORIGA 35128

MAST ARM TABULATION



HE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 6

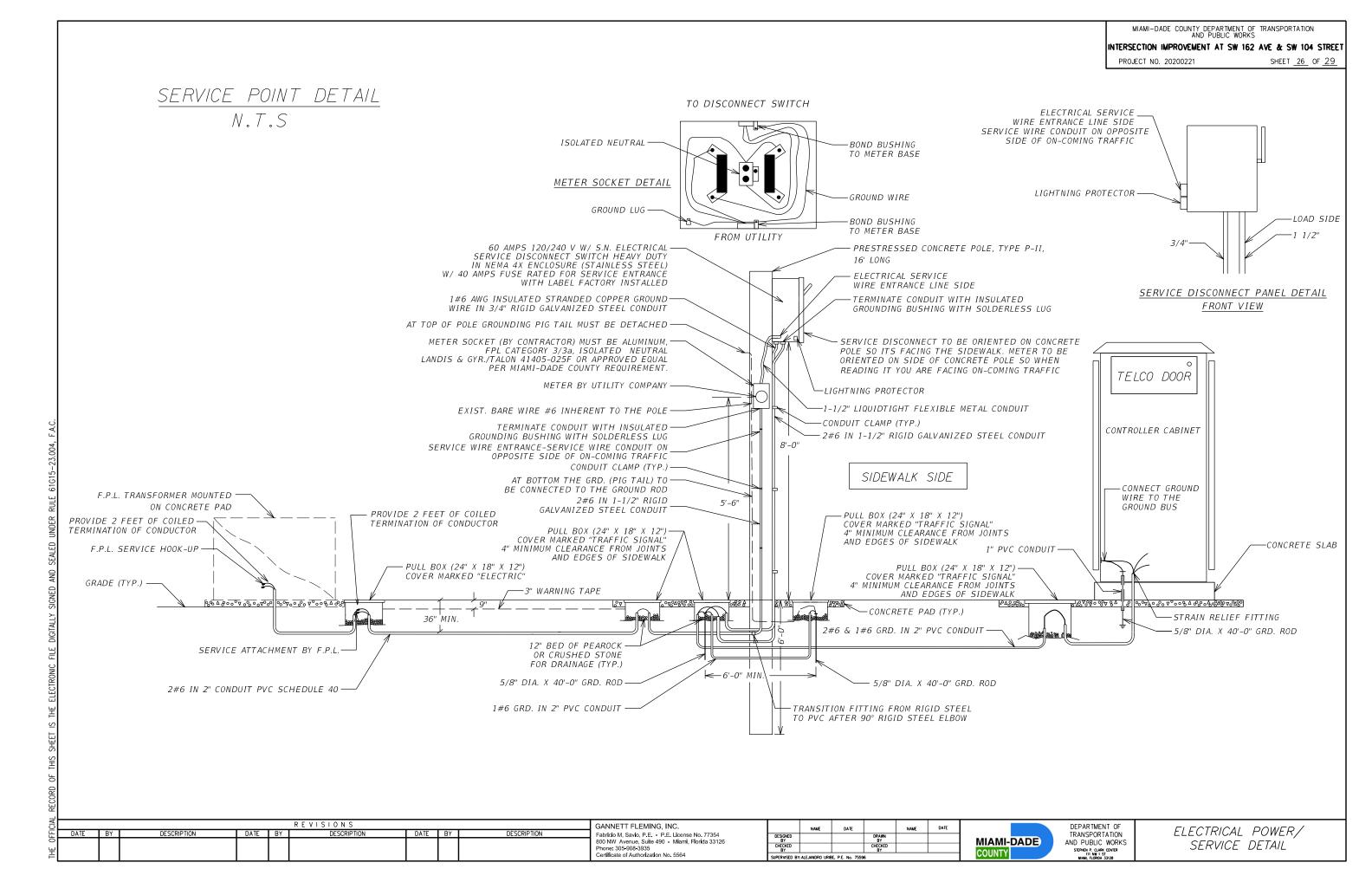
GANNE I I FLEMING, INC. Fabrido M, Savio, P.E. – P.E. License No. 77354 800 NW Avenue, Suite 490 - Miami, Florida 33126 Phone: 305-305-3935 Certificate of Authorization No. 5564

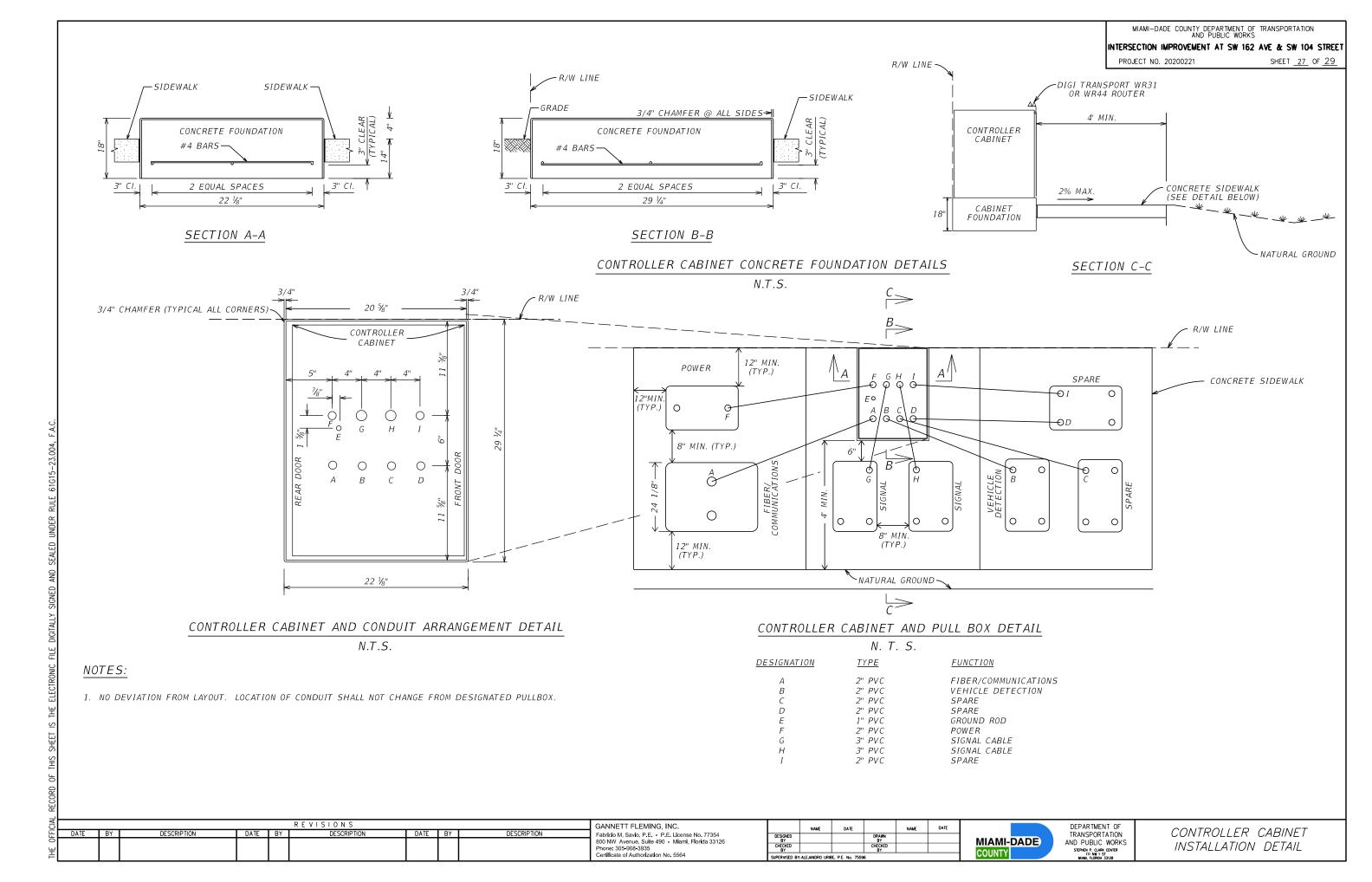




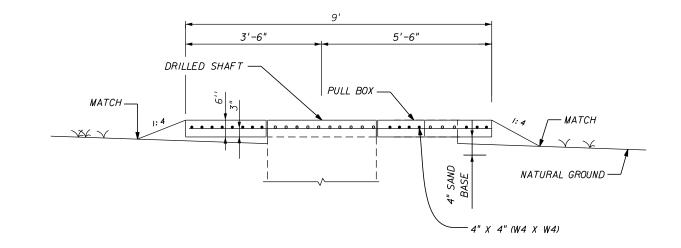
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS STEPHEN P. CLARK CENTER

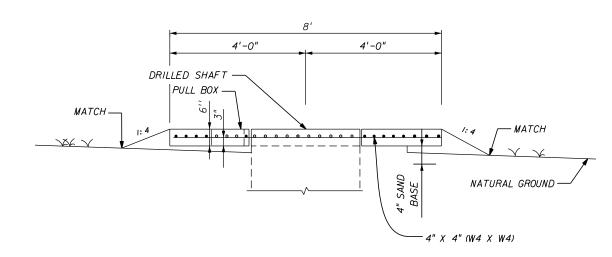
GUIDE SIGN WORKSHEET

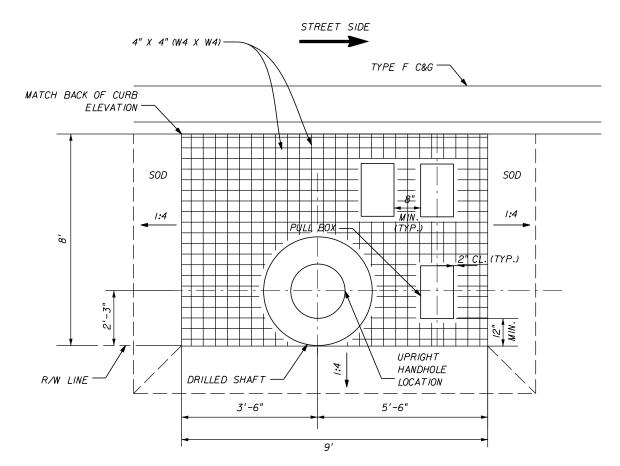




SHEET <u>28</u> OF <u>29</u>







STREET SIDE

EDGE OF PAVEMENT

SOD

1:4

POLIL BOX

SOD

1:4

PRILLED SHAFT

UPRIGHT
HANDHOLE
LOCATION

4'-0"

4'-0"

4'-0"

SLAB DIMENSIONS-MAST ARM A4 REINFORCEMENT LAYOUT

NOT TO SCALE

SLAB DIMENSIONS-MAST ARM A3 REINFORCEMENT LAYOUT

NOT TO SCALE

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GANNETT FLEMING, INC.
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	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS

INTERSECTION IMPROVEMENT AT SW 162 AVE & SW 104 STREET

PROJECT NO. 20200221

SHEET 29 OF	- 29
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STANDARD MAST ARM ASSEMBLIES DATA TABLE										Table Date 11-01-16	
STRUCTURE		FIRST ARM SECOND		ID ARM			POLE			DRILLED	
ID NUMBERS	DESIGNATION	ARM ID	FAA (ft.)	ARM ID	SAA (ft.)	UF (deg)	LL (deg)	POLE ID	UAA (ft.)	UB (ft.)	SHAFT ID
A1	A50/S-P3/S-DS/14/4.5	A50/S	27.5					P3/S	23	20	DS/14/4.5
A2	A70/S-P5/S-DS/16/5	A70/S	30					P5/S	22	19	DS/16/5
A3	A60/S-P4/S-DS/14/5	A60/S	31.5					P4/S	23	20	DS/14/5
A4	A50/S-P3/S-DS/14/4.5	A50/S						P3/S	22.5	19.5	DS/14/4.5

NOTES [Notes Date 11-01-18]:

- 1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- 2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- 3. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- 4. Work with Index 649-030 and 649-031.

R E V I S I O N S

DATE BY DESCRIPTION DATE BY DESCRIPTION

DATE BY DESCRIPTION

DESCRIPTION

DESCRIPTION

SHEET IS THE ELECTRONIC FILE DIGITALY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GANNETT FLEMING, INC.

Ray T. Stauffer, P.E. - P.E. License No. 67092

800 NW Avenue, Suite 490 - Miami, Florida 33126

Phone: 786-845-9540

Certificate of Authorization No. 5564

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS SIEPHEN P. QLARK CENTER 111 INVILO