

COMPONENTS OF CONTRACT PLANS SET
 ROADWAY PLANS
 SIGNING AND PAVEMENT MARKING PLANS
 LIGHTING PLANS
 STRUCTURES PLANS

A DETAILED INDEX APPEARS ON THE
 KEY SHEET OF EACH COMPONENT

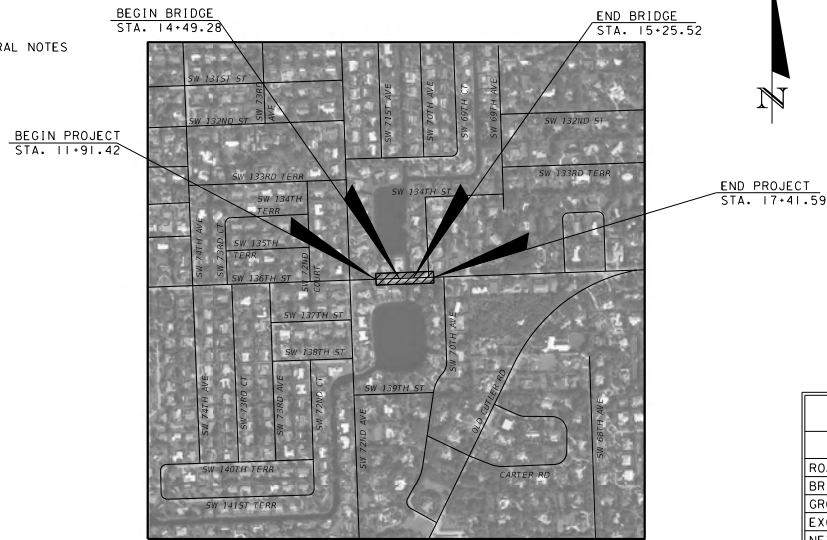
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5	GENERAL NOTES
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BX-1 TO BX-13	EXISTING BRIDGE PLANS

CONTRACT PLANS FOR

BRIDGE REPLACEMENT AT SW 136TH STREET OVER THE C-100A CANAL (BRIDGE NO. 874420)

MIAMI-DADE COUNTY PROJECT NO. 20140030 ROADWAY IMPACT FEE



NOTE:
 ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
 MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION.
 THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

LENGTH OF JOB		
	LINEAR FEET	MILES
ROADWAY	473.9	0.090
BRIDGE	76.25	0.014
GROSS LENGTH OF PROJECT	550.15	0.104
EXCEPTIONS		
NET LENGTH OF PROJECT	550.15	0.104

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2017-18 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.dot.state.fl.us/rddesign/DesignStandards/Standards.shfm>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2017 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.dot.state.fl.us/programmanagement/Implemented/SpecBooks>



PREPARED FOR



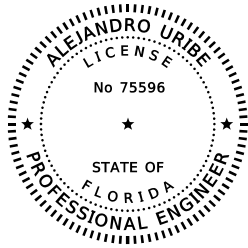
**MIAMI DADE DEPARTMENT OF
TRANSPORTATION AND PUBLIC WORKS**

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

BY



800 NW 62ND AVENUE, SUITE 490
 MIAMI, FLORIDA 33126
 (786) 845-9540 FAX (786) 845-6802



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Alejandro Uribe
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ALEJANDRO URIBE, P.E. NO. 75596
GANNETT FLEMING, INC.
800 NW 62ND AVENUE, STE 490
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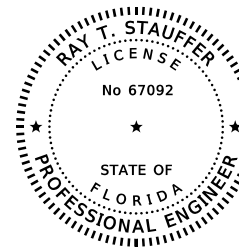
THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 6G15-23.004.F.A.C.

ROADWAY PLANS

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1	KEY SHEET
2-3	TYPICAL SECTIONS
4	ROADWAY SUMMARY OF QUANTITIES
5	GENERAL NOTES
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7 - 11	CROSS SECTIONS
42 - 42A	TEMPORARY TRAFFIC CONTROL PLAN
43	PROJECT NETWORK CONTROL

SIGNING & PAVEMENT MARKINGS PLANS

SHEET NO.	SHEET DESCRIPTION
12	SIGNING & PAVEMENT MARKINGS



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Ray Stauffer
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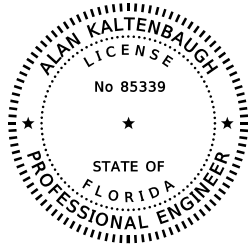
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
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STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
18	BRIDGE GENERAL NOTES (1 OF 2)
19	BRIDGE GENERAL NOTES (2 OF 2)
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40	MISCELLANEOUS DETAILS 1
40A	MISCELLANEOUS DETAILS 2
41	LOAD RATING SUMMARY SHEET



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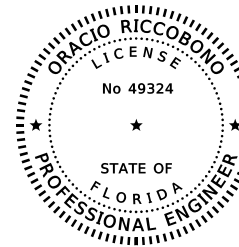
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
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LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
13	LIGHTING SUMMARY OF QUANTITIES AND GENERAL NOTES
14	LIGHTING PLAN
15	ELECTRICAL SERVICE DETAILS
16	DMX COMMUNICATION WIRING DETAIL
17	FLOOD LIGHT MOUNTING DETAIL



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Oracio Riccobono
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ORACIO RICCOBONO, P.E. NO. 49324
GEOSOL, INC.
5795-A NW 151ST STREET
MIAMI LAKES, FLORIDA 33014

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR
THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 6G15-23.004.F.A.C.

STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
23	REPORT OF CORE BORINGS (1 OF 2)
24	REPORT OF CORE BORINGS (2 OF 2)

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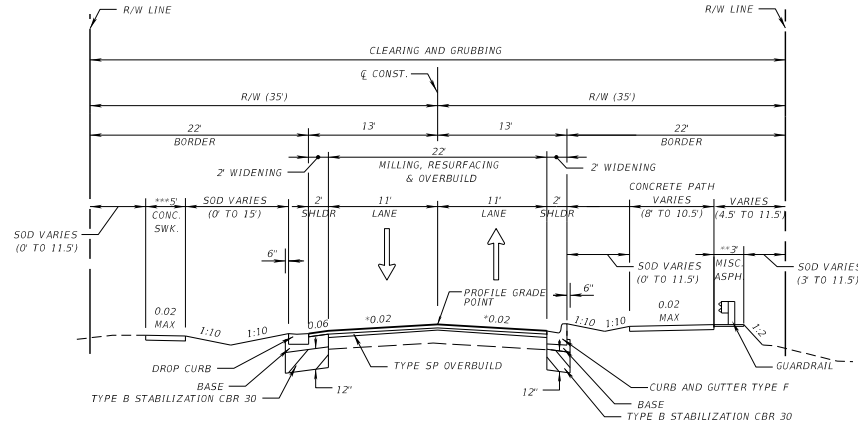
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	AU			AU	

SUPERVISED BY: WALDO GONZALEZ, PE

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CLARK, ENGINEER
WWW.FLORIDA.EDU

SIGNATURE SHEET



TYPICAL SECTION
 SW 136 STREET
 STA. 11+91.42 TO STA. 14+19.28
 STA. 16+35.65 TO STA. 17+41.59

MILLING

MILL EXISTING ASPHALT
 PAVEMENT FOR DEPTH (1')

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (1')

OVERBUILD FOR SLOPE

TYPE SP OVERBUILD (TRAFFIC B) PG76-22 THICKNESS VARIES (3/8" TO 6")

WIDENING

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (1')

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (1')

DRIVEWAY RECONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1')
 OR STAMPED ASPHALT

- * MATCH EXISTING CROSS SLOPES FROM STA. 11+91.42 TO STA. 12+05.00 AND FROM STA. 17+30.00 TO STA. 17+41.59
- ** PROPOSED GUARDRAIL FROM STA. 14+00.76 TO STA. 14+19.28
- *** PROPOSED SIDEWALK FROM STA. 13+47.83 TO STA. 14+19.28

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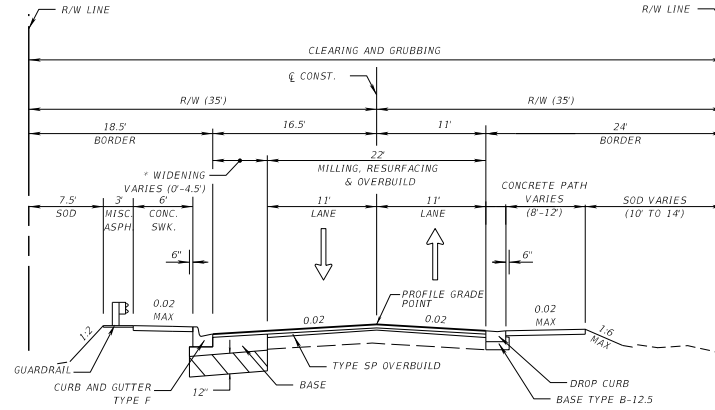
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DESIGNED BY: AU
 CHECKED BY: AU
 SUPERVISED BY: NAJID GONZALEZ, PE



DEPARTMENT OF
 TRANSPORTATION AND
 PUBLIC WORKS
 STEPHEN P. CARR, CHIEF
 111 NW 1 ST.
 MIAMI, FLORIDA 33128

TYPICAL SECTION



TYPICAL SECTION
 SW 136 STREET
 STA. 15+45.52 TO STA. 16+35.65

MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1")

RESURFACING

TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (1")

OVERBUILD FOR SLOPE

TYPE SP OVERBUILD (TRAFFIC B) PG76-22 THICKNESS VARIES (3/8" TO 1 1/2")

WIDENING

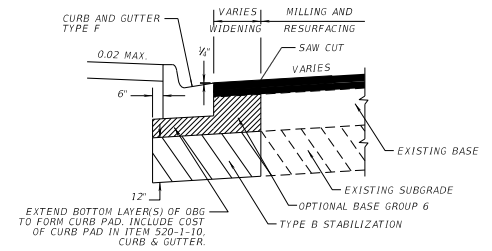
OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (2")

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) PG76-22 (1")

DRIVEWAY RECONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC A) (1")



TYPICAL WIDENING DETAIL
 N.T.S.

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SUPERVISED BY: NAJID GONZALEZ, PE



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 101 NW 1ST
 MIAMI, FLORIDA 33128

TYPICAL SECTION

SUMMARY OF PAY ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY
101-1-A	MOBILIZATION	LS	1.00
102-1A	MAINTENANCE OF TRAFFIC	LS	1.00
104-11	FLOATING TURBIDITY BARRIER	LF	79.80
108-1	PROTECTION OF EXISTING STRUCTURES - INSPECTION AND SETTLEMENT MONITORING	LS	1.00
108-2	PROTECTION OF EXISTING STRUCTURES - VIBRATION MONITORING	LS	1.00
110-1-1B	CLEARING AND GRUBBING	LS	1.00
120-1	REGULAR EXCAVATION (INC. 10% CONTINGENCY)	CY	127.60
120-6	EMBANKMENT (INC. 30% CONTINGENCY)	CY	157.30
160-4	TYPE B STABILIZATION (12" THICK)(MIN. C.B.R. 30)	SY	204.20
285-706	OPTIONAL BASE, BASE GROUP 06	SY	385.80
0327-70-1A	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY	1348.90
0334-1-11	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC A	TN	9.50
0334-1-52	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC B, PG76-22	TN	306.40
0339-1	MISCELLANEOUS ASPHALT PAVEMENT (INCLUDING APRONS)	TN	9.90
0425-4 (2)	INLETS, ADJUST	EA	1.00
0520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	579.00
0520-2-12B	CONCRETE CURB, TYPE D (INCLUDES COST OF LIMEROCK)	LF	13.90
0522-1	CONCRETE SIDEWALK, 4" THICK	SY	326.60
0522-2	CONCRETE SIDEWALK, 6" THICK	SY	181.20
0523-1	PATTERNED PAVEMENT, VEHICULAR AREAS	SY	15.40
0536-1-0	GUARDRAIL - ROADWAY, GENERAL TL-2	LF	114.94
0536-8-12	APPROACH TRANSITION TO RIGID BARRIER CONNECTION, F&I, TL-2	EA	2.00
0536-85-24	GUARDRAIL END ANCHORAGE ASSEMBLY/END TREATMENT- PARALLEL	EA	2.00
0570-1-2	PERFORMANCE TURF, SOD	SY	738.90
0700-1-60	SINGLE POST SIGN, REMOVE	AS	1.00
0700-2-50	MULTI-POST SIGN, RELOCATE	AS	1.00
0701-17-101A	PROFILED THERMOPLASTIC, STANDARD- CONCRETE SURFACES, WHITE, SOLID, 6"	LF	76.25
0706-1-12	REFLECTIVE PAVEMENT MARKER, TYPE B	EA	34.00
0710-11-121	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	LF	1118.51
0710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF	84.00
0710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	LF	68.00
0710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF	19.30
0710-11-221	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	LF	985.09
0711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	84.00
0711-11-124	THERMOPLASTIC, STD, WHITE, SOLID, 18" FOR DIAGONAL AND CHEVRONS	LF	68.00
0711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24" FOR STOP LINE AND CROSS WALKS	LF	19.30
0711-16-101A	THERMOPLASTIC, STD-OTHER SURFACES, WHITE, SOLID, 6"	LF	966.01
0711-16-201A	THERMOPLASTIC, STD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	805.59
0713-103-101A	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	LF	152.50
0713-103-201A	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	LF	305.00

SUMMARY OF EARTHWORK

ITEM	QUANTITY (CY)
ROADWAY EXCAVATION	103.0
ROADWAY EXCAVATION + 10%	113.3
ROADWAY FILL	191.0
ROADWAY FILL + 30%	248.3
EXCESS MATERIAL	-135.0

NOTES:

1. THE EARTHWORK COMPUTATIONS WERE BASED ON THE CONSTRUCTION OF LIMEROCK BASE (8" THICK) ON THE CROSS SECTIONS.
2. EXCESS MATERIAL TO BE DISPOSED OF BY CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM / HER. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.

ITEM NO.

- 102-1A TO BE ACCOMPLISHED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 102-600 SERIES, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (AMS1 D6 1-1978), PUBLIC WORKS MANUAL OF MIAMI-DADE COUNTY, AND THE LATEST REVISIONS OF THE AFOREMENTIONED MANUALS. INCLUDES 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, TRAFFIC SIGNAL MODIFICATION FOR TRAFFIC CONTROL, ETC.
- 108-X INCLUDES THE COST OF INSPECTION AND SETTLEMENT MONITORING AND VIBRATION MONITORING PER FOOT SPECIFICATIONS 108.
- 110-1-1B INCLUDES THE REMOVAL OF EXISTING PAVEMENT, SIDEWALKS, DRIVEWAYS, CURB & GUTTER, GUARDRAIL, DRAINAGE STRUCTURES AND PIPES, TREES AND VEGETATION, DRIVEWAYS, MISCELLANEOUS CONCRETE AND SAWCUTTING TO BE DISPOSED OF BY THE CONTRACTOR IN LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION, AND REQUIRE CLEANING AS DIRECTED BY THE ENGINEER.
- 120-X THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED BY THE ENGINEER.
- 0334-1-52
- 0536-1-0 THIS ITEM INCLUDES THE COST OF REMOVAL, TRANSPORTING AND OFF-LOADING OF ALL SALVAGABLE EXISTING GUARDRAIL TO (MIAMI-DADE COUNTY MAINTENANCE YARD). ONLY GUARDRAIL STEEL POST SHALL BE USED.

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ENGINEER OF RECORD:
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DEPARTMENT OF
 TRANSPORTATION AND
 PUBLIC WORKS
 STEPHEN P. CLARK, CENTER
 1111 B
 WWW.FLORIDA.3128

ROADWAY SUMMARY OF QUANTITIES

1. B.M. DATA IS NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D.-88).

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 NATURAL RESOURCES BUREAU OF SURVEYING AND MAPPING, 3900 COMMONWEALTH BLVD., MAIL STATION 105, TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE: (850)488-2427.

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 SHALL FURNISH TO MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.

4. ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE STATED.

5. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.

6. 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 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, 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.

8. 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 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.

10. BASELINE CONTROL SURVEY CONDUCTED BY M.G. VERA & ASSOC. PLEASE CALL MR. MANNY VERA AT 305-221-6210 CONCERNING SURVEY RELATED QUESTIONS.

11. EXISTING TOPOGRAPHIC INFORMATION HAS BEEN OBTAINED FROM SURVEY PREPARED BY M.G. VERA & ASSOCIATES.

12. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 811 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.

14. 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, 3091 SW 39 AVENUE, FAX NO. 305-668-3657. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. THE COST OF ADDITIONAL ADJUSTMENTS WILL BE THE RESPONSIBILITY OF THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE, FAX NO. 305-645-3482. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MWDASD 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:

AT&T DISTRIBUTION 305-222-8745
COMCAST CABLE 954-447-8405
MIAMI-DADE COUNTY PUBLIC WORKS AND TRAFFIC 305-412-0891 EXT. 201
FLORIDA GAS TRANSMISSION COMPANY 407-838-7171
FLORIDA POWER AND LIGHT 305-442-5129
MIAMI-DADE WATER AND SEWER 786-268-5320

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. (102-1 REGULAR EXCAVATION)

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.

19. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS. (110-HB CLEARING AND GRUBBING)

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 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. ANY OFF-SITE STORAGE WILL REQUIRE APPROVAL FROM THE ENGINEER.

25. PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES, STRUCTURES, FRENCH DRAINS, SLAB COVERED TRENCHES, CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH SEVEN DAYS ADVANCE NOTICE OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE, AND POSSIBLE CONFLICTS. PAYMENT FOR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE. (102-1 REGULAR EXCAVATION)

26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.

27. ALL EXCESS MATERIALS 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 METHOD. MATERIALS 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 FAMILIARIZING 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 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.

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. THE CONTRACTOR IS ADVISED THAT A TREE PERMIT WILL BE REQUIRED FOR TREE REMOVAL. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO REMOVING ANY TREE, AND WILL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS.

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.

36. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL. LUSHROCK, 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.

37. STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS.

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

MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS

SW 136TH STREET

FROM SW 72ND AVE TO SW 70TH AVE

PROJECT NO. 20140030 SHEET 5 OF 43

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

40. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHER WISE NOTED.

41. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.

42. EXISTING MANHOLE TOPS, VALVE BOXES, AND OTHER UTILITY CASTINGS THAT RE TO REMAIN WITHIN THE LIMITS OF MILLING AND RESURFACING OR PAVEMENT RECONSTRUCTION WORK ARE TO BE ADJUSTED BY THE UTILITY OWNER SUCH THAT THEY ARE FLUSH WITH THE FINISHED PAVEMENT ELEVATIONS.

43. ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

44. RADIUS 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 EXCAVATION.

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 FLUSH WITH THE EXISTING PAVEMENT.

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. PAVEMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS. (335H MISCELLANEOUS ASPHALT PAVEMENT, 520'X10' CONCRETE CURB & GUTTER, TYPE F, 522-1 (1) CONCRETE SIDEWALK 4" THICK)

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.

56. 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: 3.5' NGVD

58. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 6.0' NGVD

59. 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.

60. ALL SALVAGEABLE MATERIALS THAT ARE REMOVED MUST BE DELIVERED AND UNLOADED AT THE MIAMI-DADE ROAD, BRIDGE, AND CANAL MAINTENANCE DIVISION.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ISSUED BY	DATE	ISSUED BY	DATE
AS		AS	
BY		BY	
NO		NO	

APPROVED BY: MAUD DONALD PE

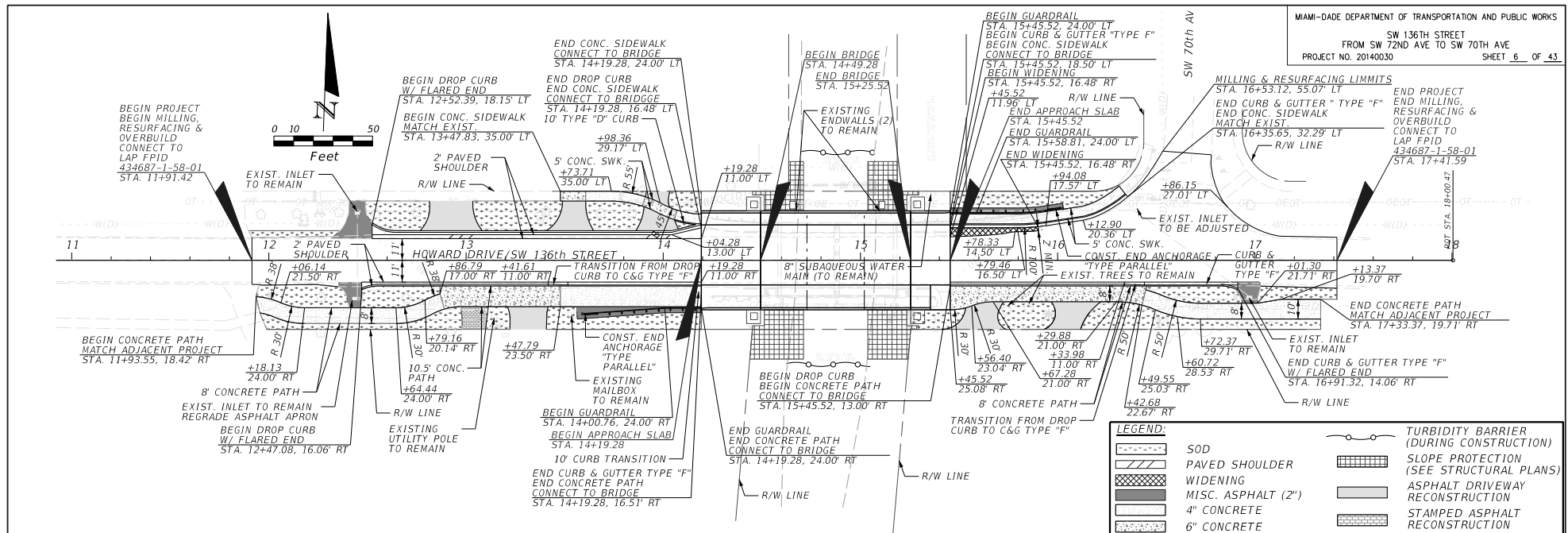


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
STEPHEN P. CARL, CIVIL ENGINEER
MIAMI, FLORIDA 33136

GENERAL NOTES

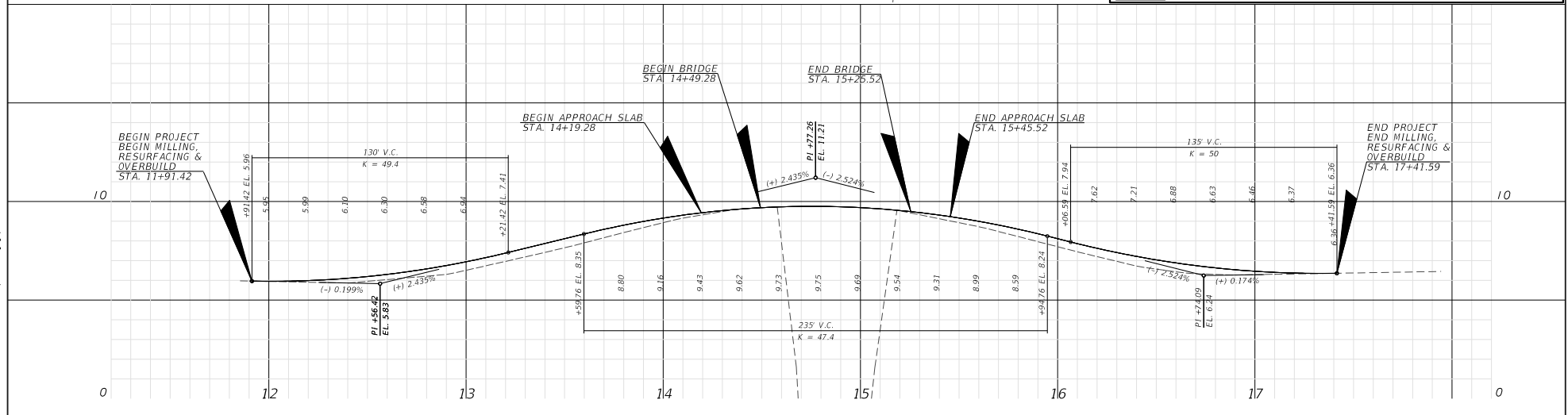
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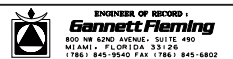
LEGEND:

	SOD		TURBIDITY BARRIER (DURING CONSTRUCTION)
	PAVED SHOULDER		SLOPE PROTECTION (SEE STRUCTURAL PLANS)
	WIDENING		ASPHALT DRIVEWAY RECONSTRUCTION
	MISC. ASPHALT (2')		4' CONCRETE
	6' CONCRETE		STAMPED ASPHALT RECONSTRUCTION



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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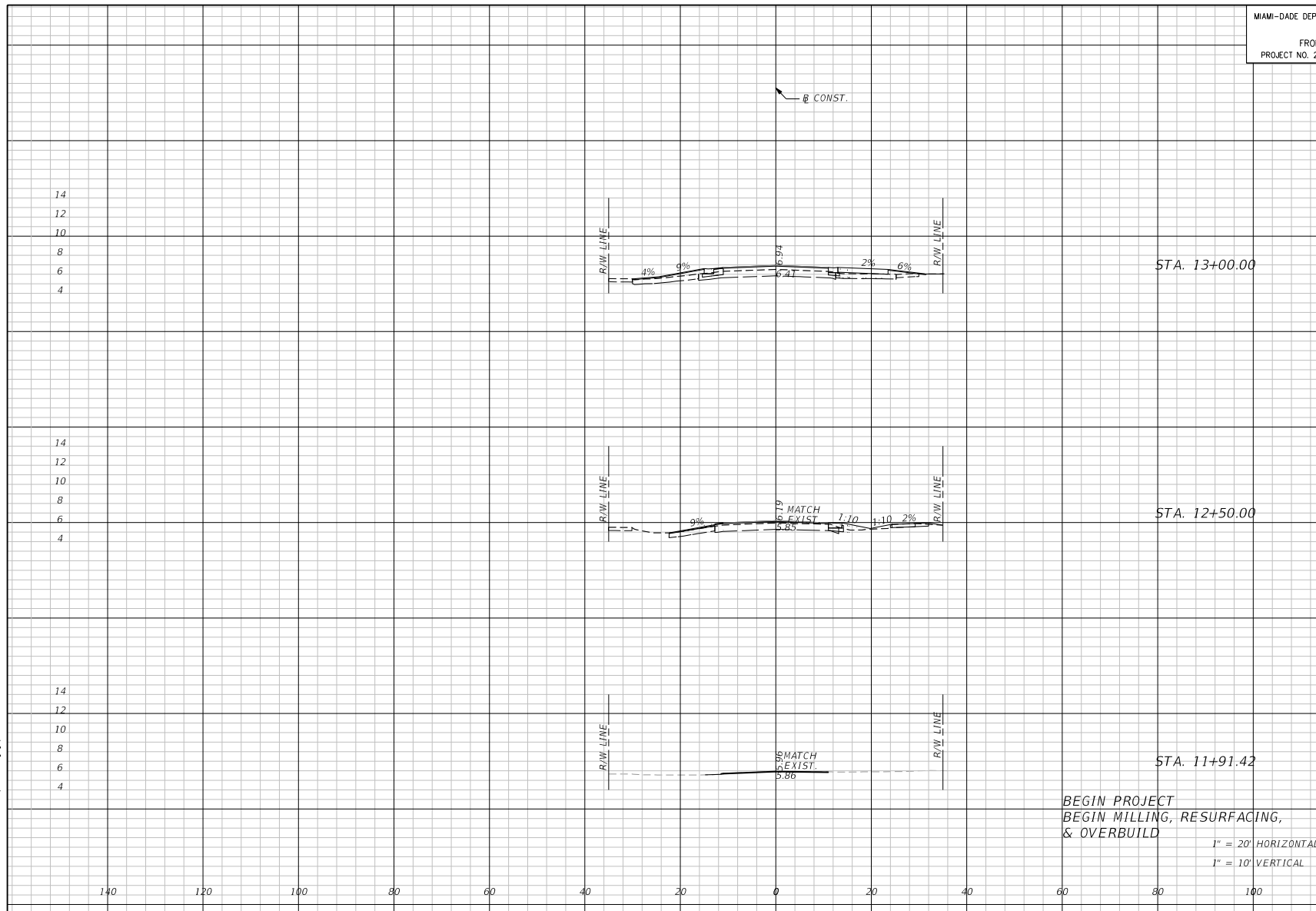
SUPERVISED BY: NAJID GONZALEZ, PE



ROADWAY PLAN/PROFILE

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Regular		Exc.		Embankment	
A	V	A	V	A	V
3	6	0			3
3		3			3
0		0			0

BEGIN PROJECT
 BEGIN MILLING, RESURFACING,
 & OVERBUILD
 1" = 20' HORIZONTAL
 1" = 10' VERTICAL

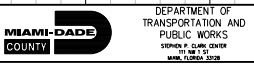
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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CHECKED BY	AU		CHECKED BY	AU	

SUPERVISED BY: NALDO GONZALEZ PE

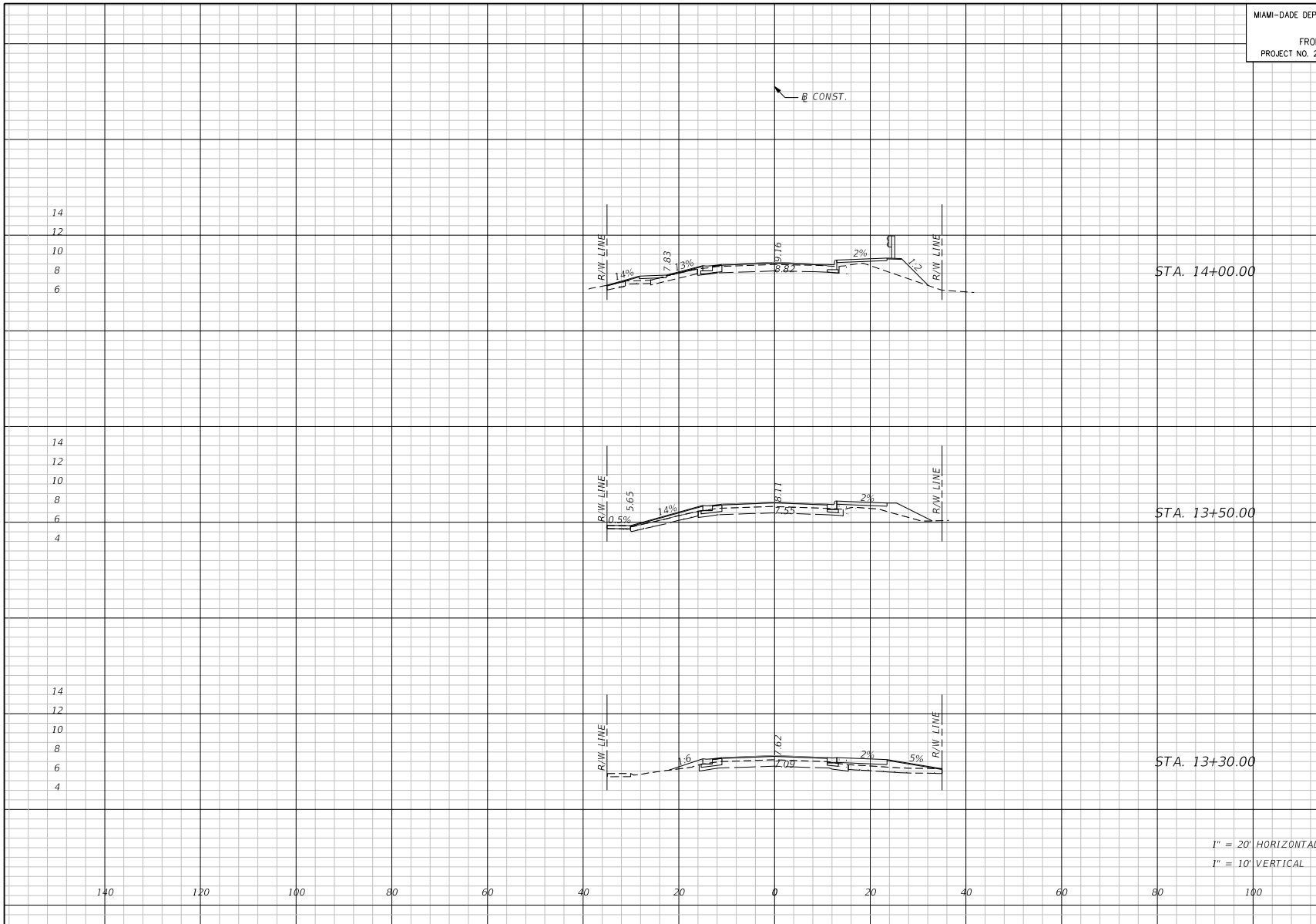


CROSS SECTIONS

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MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 8 OF 43



	Regular		Embankment	
	A	V	A	V
STA. 14+00.00	7	10	7	10
STA. 13+50.00	4	4	4	4
STA. 13+30.00	6	5	8	4

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS			
DATE	BY	DESCRIPTION	DATE

ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
AS	AS	04/27/2017	AS	AS	04/27/2017
CHECKED BY	AU		CHECKED BY	AU	

SUPERVISED BY: NALDO GONZALEZ, PE

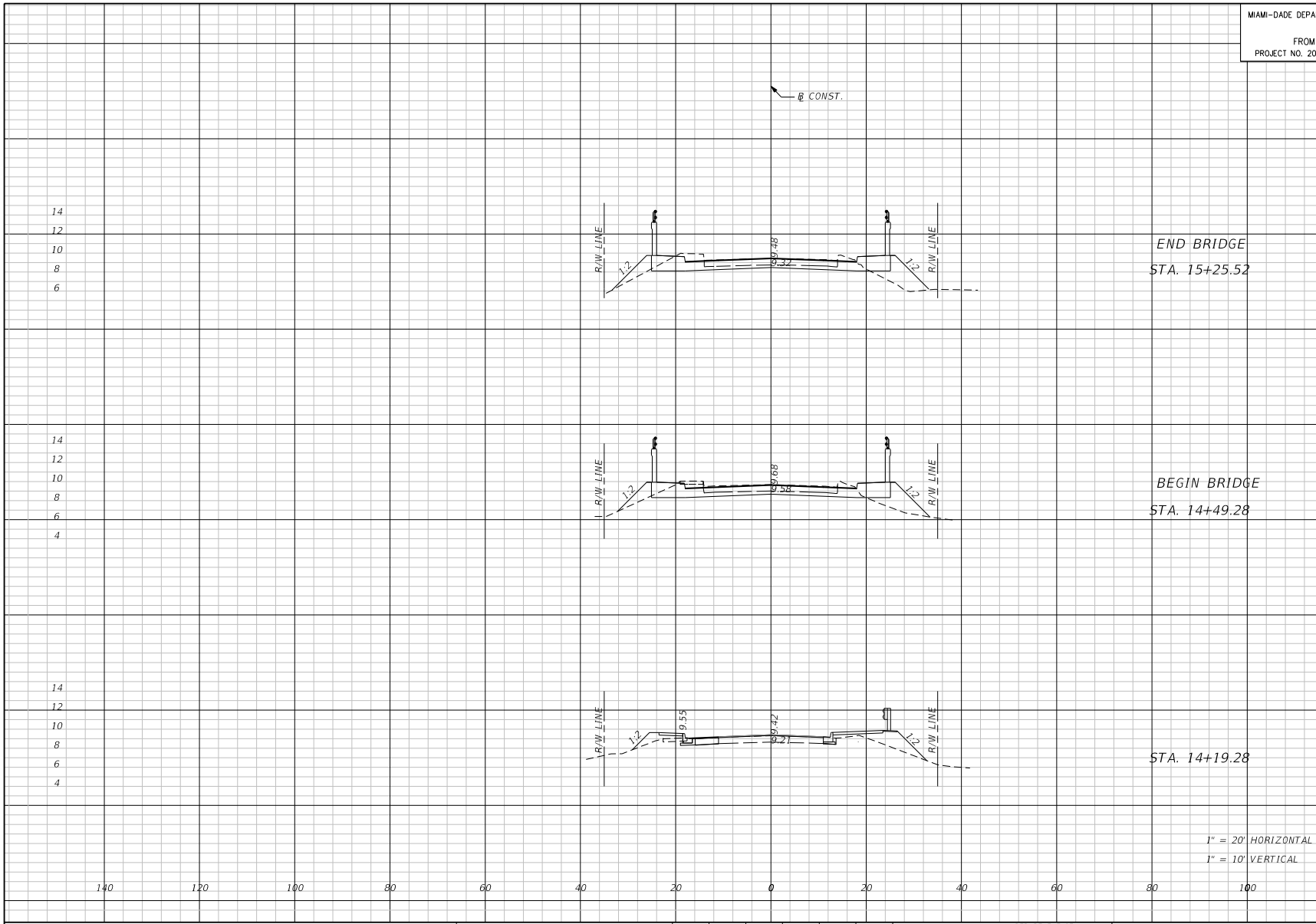
MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF
 100 N.W. 15TH AVENUE
 MIAMI, FLORIDA 33128

CROSS SECTIONS

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MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 9 OF 43



	Regular		Embankment	
	A	V	A	V
END BRIDGE STA. 15+25.52	49	0	26	0
BEGIN BRIDGE STA. 14+49.28	49	33	23	23
STA. 14+19.28	10	6	19	9

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS			
DATE	BY	DESCRIPTION	DATE



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CHECKED BY	AU		CHECKED BY	AU	

SUPERVISED BY: NALDO GONZALEZ PE



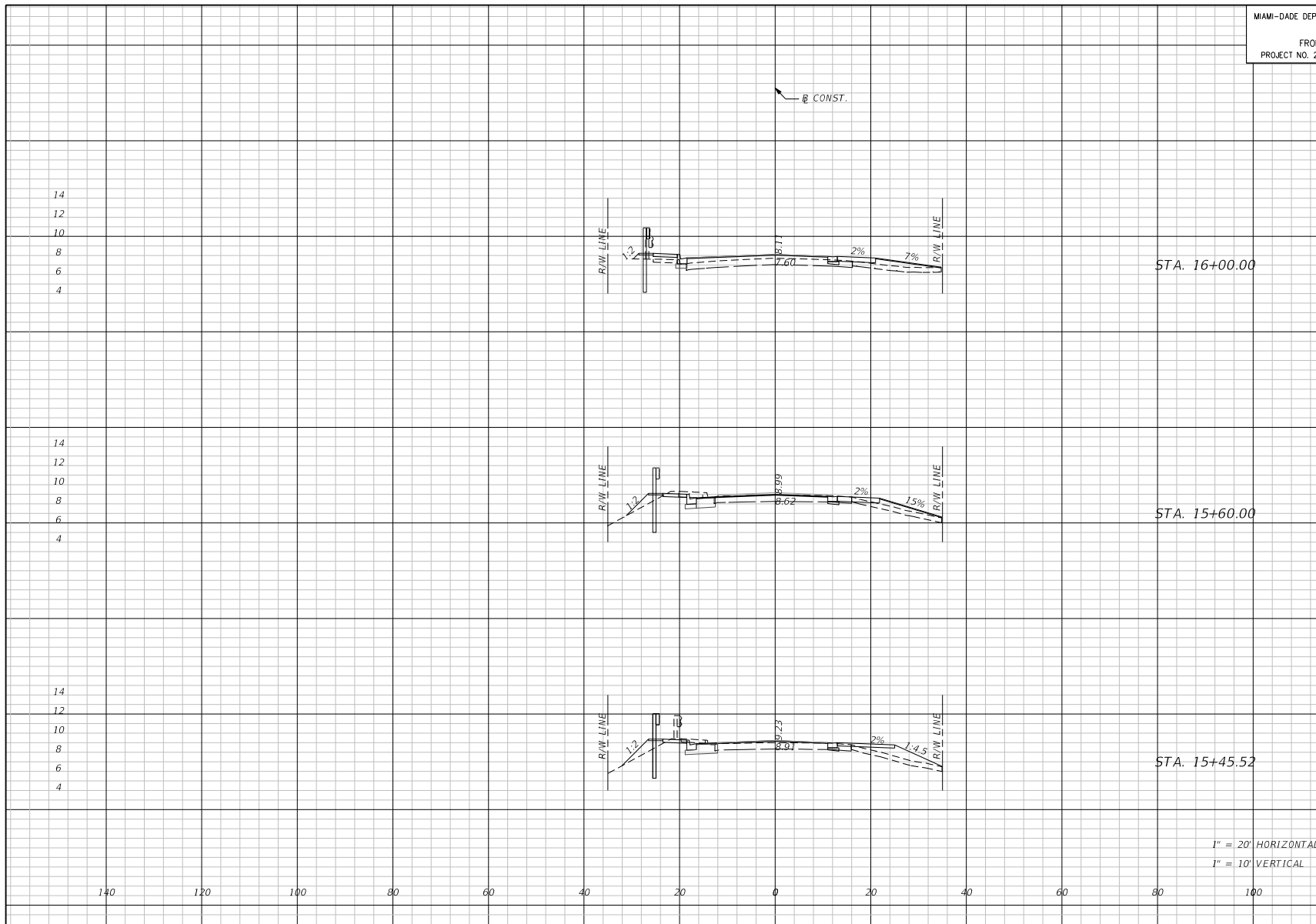
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CUNY, CHIEF ENGINEER
 115 N.W. 1st
 MIAMI, FLORIDA 33128

CROSS SECTIONS

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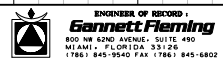
MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 10 OF 43



Regular		Exc.		Embankment	
A	V	A	V	A	V
2			14	7	22
13			2	17	3
14			23	23	18

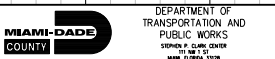
1" = 20' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS			
DATE	BY	DESCRIPTION	DATE



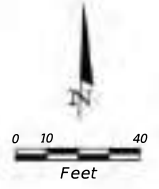
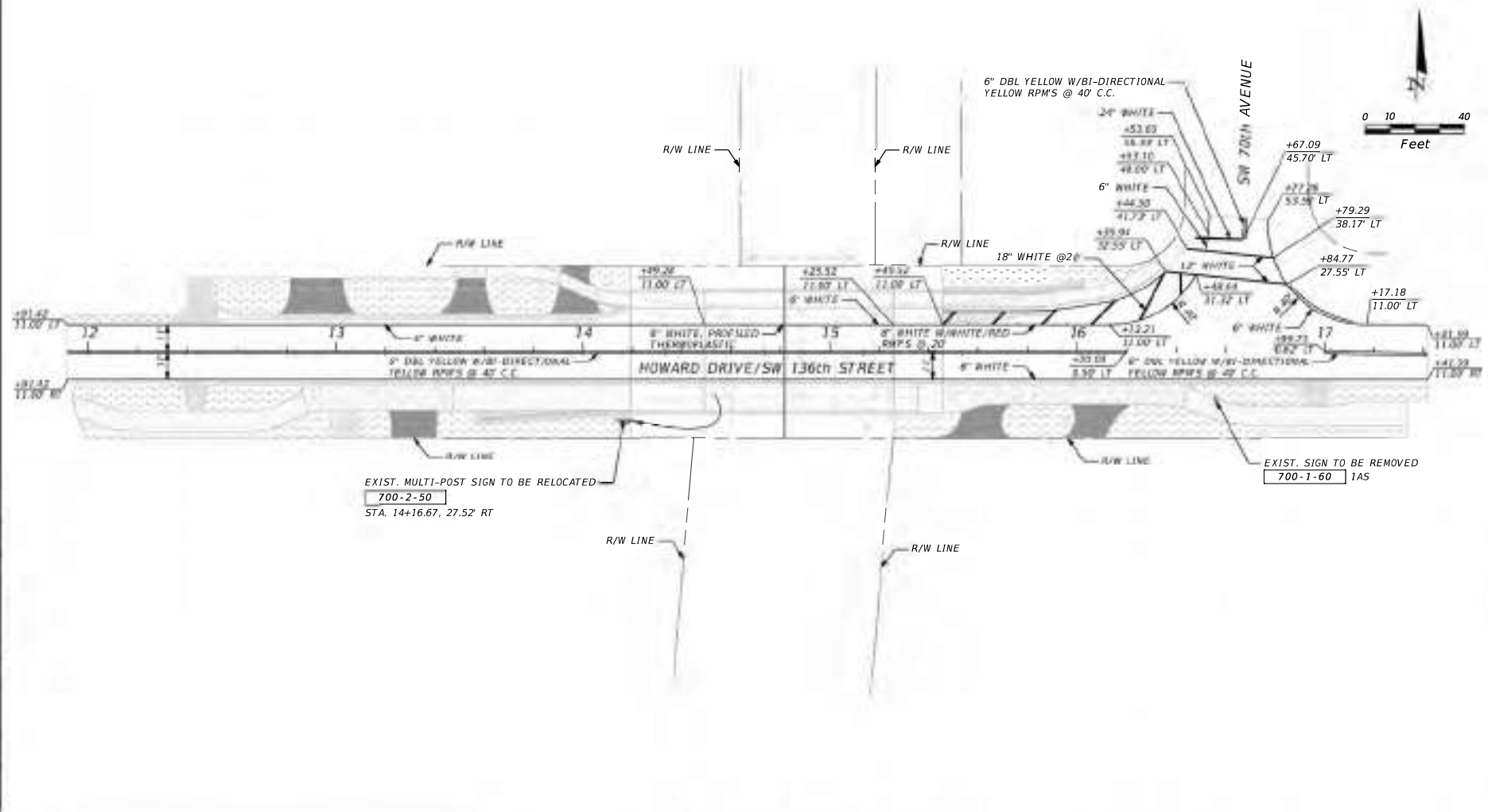
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SUPERVISED BY: NALDO GONZALEZ, PE



CROSS SECTIONS

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION


ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

ISSUED BY	DATE	REVISION BY	DATE
AS		AS	
AU		AU	

SUPERVISED BY: NALDO DONALD, PE


MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CLARK, CENTER
 111 NW 1ST
 MIAMI, FLORIDA 33128

SIGNING & PAVEMENT MARKINGS

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

LIGHTING NOTES:

1. ENDS OF CONDUITS SHALL BE SEALED WITH POLYURETHANE FOAM AFTER WIRING IS COMPLETE. FOAM SEAL SHALL NOT BE USED AS A MEANS TO PROTECT CONDUCTORS FROM ABRASION IN RACEWAYS. GALVANIZED RIGID METAL CONDUIT SHALL HAVE PROPER FITTINGS TO PROTECT CONDUCTORS FROM ABRASION.
2. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE PROPERLY TAPED AND HEAT SHRINK TUBES OR CAPS SHALL BE USED TO WATERPROOF THESE CONNECTIONS. ONLY USE GEL CAP SPLICES IN GROUND LEVEL PULL BOXES.
3. GROUND RODS ARE TO BE LOCATED AT EACH PULL BOX ASSOCIATED WITH A LIGHTING POLE OR ELECTRICAL LOAD. CENTER-INSTALL TWO 5/8" X 20' COPPER CLAD STEEL GROUNDING ELECTRODES AT EACH SERVICE POINT. THEY MUST BE SPACED A MINIMUM OF SIX FEET AND SIX INCHES FROM EACH OTHER WHEN INSTALLED AS AN ARRAY. WHEN THE GROUNDING ELECTRODE CONDUCTOR IS ENCLOSED IN A METAL RACEWAY, BOTH ENDS OF THE RACEWAY AND ALL INTERVENING RACEWAYS AND METALLIC ENCLOSURES CONTAINING THE GROUNDING ELECTRODE CONDUCTOR MUST BE BONDED TO THE GROUNDING ELECTRODE CONDUCTOR.
4. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER MAINTENANCE AGENCY SPECIFICATIONS.
5. SYSTEM SHALL BE GROUNDED WITH INSULATED GREEN #6 THW CONDUCTORS RUN INSIDE THE CONDUIT.
6. INSTALLATIONS OF NEW PULL BOXES SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR. WHEN A NEW PULL BOX IS REPLACING AN EXISTING PULL BOX, THE CONTRACTOR SHALL ADJUST CONDUITS AND CABLES TO FIT THE NEW PULL BOX ELEVATION.
7. COLOR CODING OF CONDUCTORS:

A. WIRING FOR 120 VOLT SYSTEM SHALL BE CODED AS FOLLOWS:

PHASES "A-1,2"-BLACK
 NEUTRAL-WHITE
 GROUND-GREEN

B. COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE INTEGRAL PART OF INSULATION, ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTIONS POINTS.








LIGHTING DESIGN CRITERIA:

1. AVERAGE MAINTAINED ILLUMINATION = N/A
2. UNIFORMITY RATIO = N/A
3. MAXIMUM TO MINIMUM RATIO (LESS THAN 10:1) = N/A
4. LIGHT SOURCE = LIGHT EMITTING DIODE (LED)
5. AESTHETIC LIGHTING NOT REQUIRED TO MEET FOOT LIGHTING DESIGN CRITERIA

LEGEND:

SYMBOLS

DESCRIPTION

-  RECESSED, 70 WATT LED, WALL MOUNTED LUMINAIRE WITH ASYMMETRICAL DISTRIBUTION DIE CAST ALUMINUM WITH INTEGRAL WIRING COMPARTMENT (BEGA CATALOG NO. 2315 LED). SURFACE MOUNTED THROUGH BACK WITH 3/4" THREADED CONDUIT. DESIGNED FOR CANAL BRIDGE LIGHTING. INTEGRAL BALLAST WIRED FOR 120 VOLT CIRCUIT.
-  FLOOD LIGHT ARRAY, (4) 230 WATT LED, WALL MOUNTED LUMINAIRE. SURFACE MOUNTED WITH MOUNTING BRACKET AND TILT LOCK SYSTEM (SGM LIGHT ITEM NO. 80230503). MOUNTING BRACKET SECURED WITH PROVIDED M-10 NUTS AND SCREWS. DESIGNED FOR ARCHITECTURAL LIGHTING. INTEGRAL BALLAST WIRED FOR 240 VOLT CIRCUIT.
-  NEW PULL BOX. STANDARD MDC SIZE FOR GROUND (15 1/2" x 25" x 12"). INTALL STANDARD CONCRETE APRON AROUND ALL GROUND LEVEL PULL BOXES.
-  NEW 2-2" P.V.C. UNDERGROUND CONDUIT WITH RHW-XLP CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON LIGHTING PLANS) PROVIDE WITH MINIMUM 1#6 THW GREEN INSULATED BOND (COPPER) INSIDE CONDUIT.
-  NEW 2-2" H.D.P.E. UNDERPAVEMENT OR UNDERGROUND DIRECTIONAL BORE CONDUIT WITH RHW-XLP CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON LIGHTING PLANS) PROVIDE WITH MINIMUM 1#6 THW GREEN INSULATED BOND (COPPER) INSIDE CONDUIT.
-  NEW 2-2" CONDUIT MOUNTED INSIDE BRIDGE WALL WITH RHW-XLP CONDUCTORS INSIDE (CONDUCTOR SIZE SHOWN ON LIGHTING PLANS) PROVIDE WITH MINIMUM 1#6 THW GREEN INSULATED BOND (COPPER) INSIDE CONDUIT.
-  PROPOSED SERVICE POINT

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	QUANTITY (SHEET 3)
620-1-1	LF GROUNDING ELECTRODE, F&I	80
630-2-11	LF CONDUIT - OPEN TRENCH: 2-2" PVC F&I	75
630-2-12	LF CONDUIT - DIRECTIONAL BORE UNDER PAVEMENT: 2-2" HDPE, F&I	250
630-2-14	LF CONDUIT - ABOVEGROUND: 1-2" GALVANIZED, F&I	25
635-2-11	EA PULL BOX - 13" x 24" COVER SIZE, F&I	8
635-3-13	EA JUNCTION BOX - EMBEDDED, F&I (10" x 10" BOX)	6
639-1-111	AS POWER SERVICE - OVERHEAD, METER FINISHED BY POWER COMPANY, F&I	1
641-2-11	EA PRESTRESSED CONCRETE POLE - TYPE P-11 PEDESTAL, F&I	1
715-1-12	LF LIGHTING - CONDUCTORS: NO. 8 TO NO. 6 AWG, F&I	2525
715-1-13	LF LIGHTING - CONDUCTORS: NO. 4 TO NO. 2 AWG, F&I	90
715-7-11	EA LOAD CENTER - SECONDARY VOLTAGE, F&I (INCLUDES SWITCH, WEATHERHEAD AND WIRE AT SERVICE POINTS)	1
715-11-115	EA LUMINAIRE ROADWAY - WALL MOUNT, F&I	6
715-11-118	EA LUMINAIRE ROADWAY - FLOOD, F&I	16

SUBMITTAL DATA:

PRIOR TO ANY PROCUREMENT ORDER THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIALS PROPOSED FOR THE PROJECT AND SHALL INCLUDE, BUT NOT LIMITED TO:

- A. SHOP DRAWINGS FOR THE LUMINARIES.
- B. CONDUCTORS, CONDUIT, GROUND RODS AND PULL BOXES.
- C. FUSES, FUSE HOLDERS, SURGE PROTECTORS.
- D. SAFETY SWITCHES, PANELS, CIRCUIT BREAKERS, AND OTHER MAJOR SERVICE POINT COMPONENTS.

FOUR COPIES OF THE SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED TO THE ENGINEER WITH A COPY OF THE SUBMITTAL LETTER SENT TO THE DEPARTMENT'S RESIDENT CONSTRUCTION ENGINEER IN CHARGE OF THE PROJECT.

5/5/2023

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



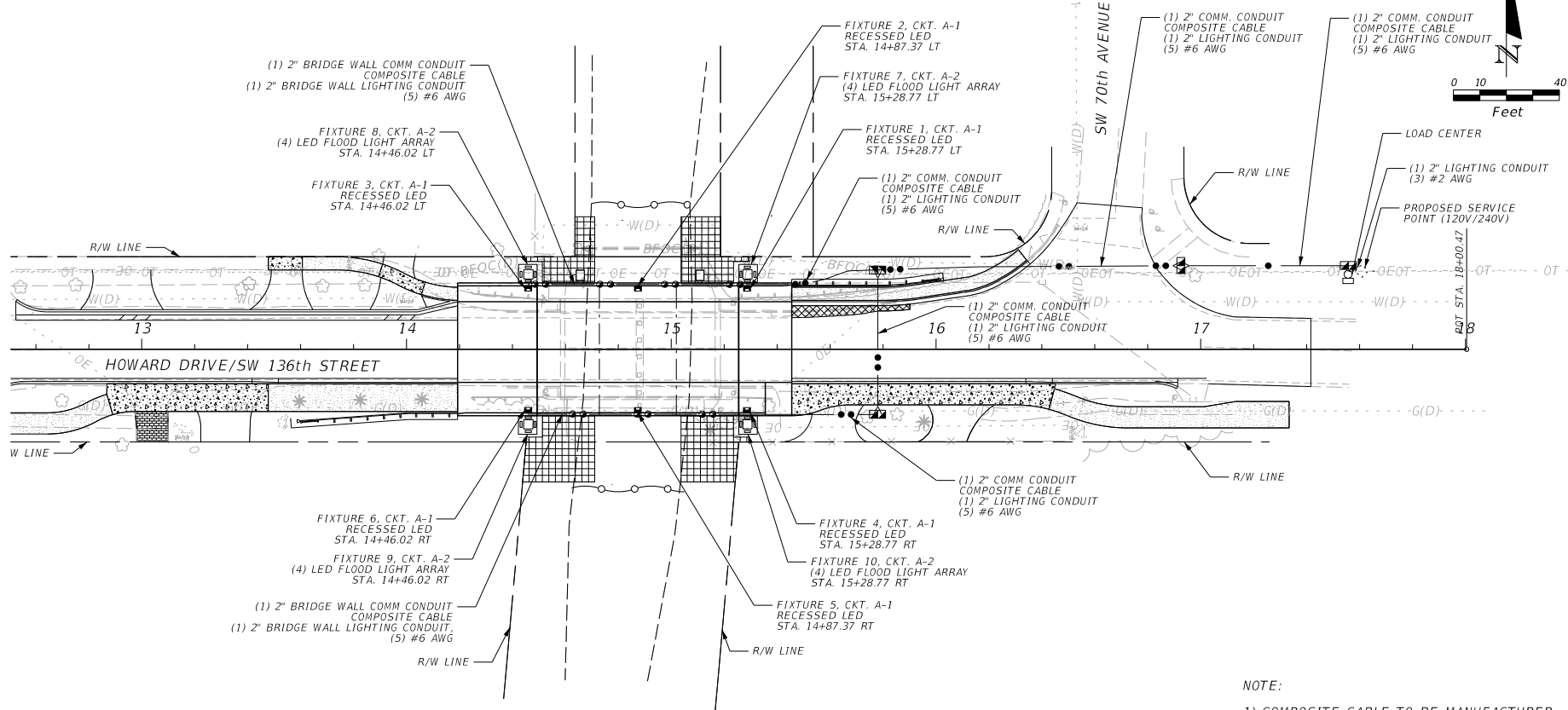
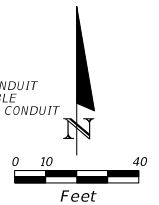
Gannett Fleming
 ENGINEERS OF RECORD
 1300 CORPORATE CENTER DRIVE SUITE 101
 MIAMI, FLORIDA 33126
 (786) 845-2540 FAX (786) 845-6802
 H 3 252588 P 2 42844 E.O. 12813

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
		08/28/2019			08/28/2019
CHECKED BY	NAME	DATE	DESIGNED BY	NAME	DATE
		08/28/2019			



DEPARTMENT OF
 TRANSPORTATION AND
 PUBLIC WORKS
 STEPHEN P. CLARK, DIRECTOR
 100 N.W. 25th Street
 MIAMI, FLORIDA 33127

**LIGHTING SUMMARY OF QUANTITIES
 AND GENERAL NOTES**



- NOTE:
- 1) COMPOSITE CABLE TO BE MANUFACTURER APPROVED DMX CABLING SYSTEM, DMX CABLE TO BE TERMINATED IN THE PHOTO CONTROLLER WITH A 120 OHM DMX TERMINATION.
 - 2) STANDARD CONCRETE APRONS SHALL BE INSTALLED AROUND ALL GROUND LEVEL PULL BOXES.

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ENGINEER OF RECORD
Gannett Fleming
 1300 CORPORATE CENTER DR. SUITE 701
 MIAMI, FLORIDA 33121
 (785) 845-2640 FAX: (785) 845-8902
 H. C. SHERROD, P.E., LICENSE NO. 623143

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	PD	08/28/2019		SP	08/28/2019
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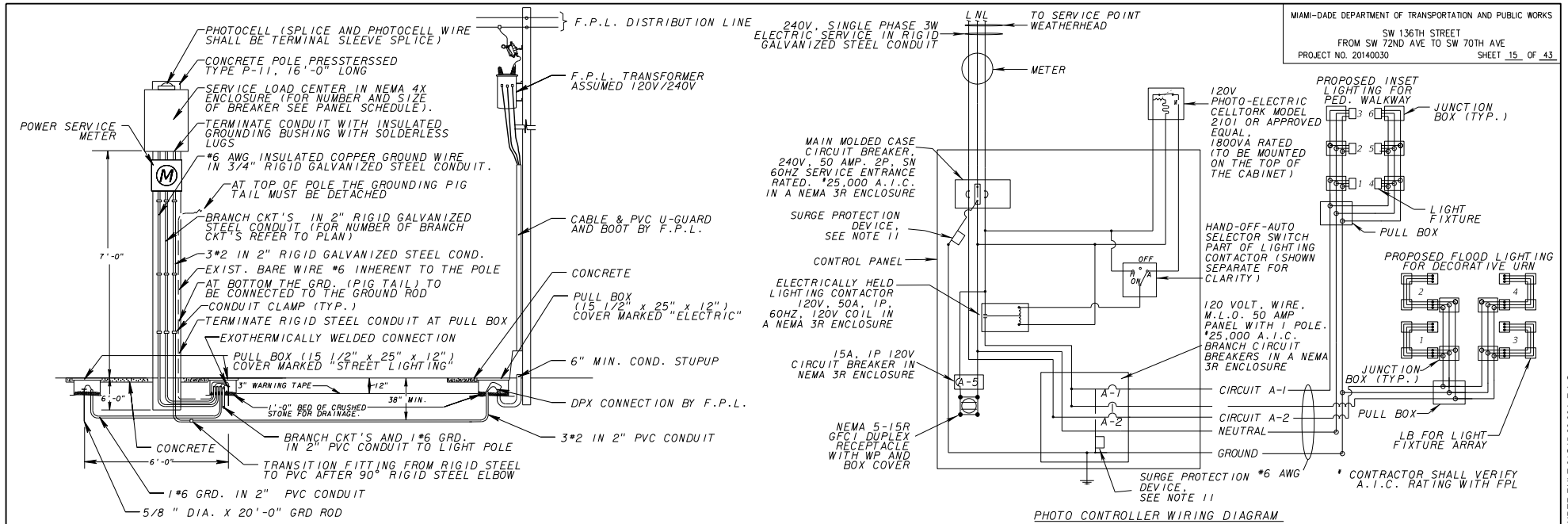
SUPERVISED BY: NALDO GONZALEZ, PE

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF
 101 N.W. 151
 MIAMI, FLORIDA 33128

LIGHTING PLAN

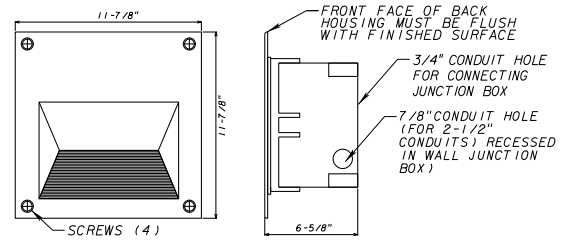
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MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 15 OF 43

- NOTES:**
1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
 2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH.
 3. 240 VOLT MINIMUM RATING BOLT-IN TYPE BREAKERS SHALL BE USED.
 4. A 600V LIGHTNING PROTECTOR SHALL BE WIRED OUTSIDE THE ENCLOSURE.
 5. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
 6. ALL SERVICE EQUIPMENT SHALL BE UL APPROVED.
 7. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 100 AMPS WHEN MAIN BREAKER EXCEEDS 100 AMPS. BUSBAR TO MATCH BREAKER AMPERAGE.
 8. LOCATE CONTACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
 9. THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.
 10. CONTRACTOR SHALL COORDINATE WITH F.P.L. ENGINEERS FOR THE INSTALLATION OF THE F.P.L. RISER WHICH INCLUDES A CONNECTION FEE. (THIS FEE SHALL BE INCLUDED IN BID ITEM 715-7-11) THIS LAYOUT HAVE BEEN APPROVED BY THE MAINTENANCE AGENCY (MIAMI-DADE COUNTY AND F.D.O.T. DISTRICT SIX).
 11. SURGE PROTECTION DEVICE (SPD), UL 1449 THIRD EDITION LISTED, BY ATLANTIC SCIENTIFIC MODEL ZONE DEFENDER OR EQUAL, RATED FOR 80KA MINIMUM. THIS UNIT SHALL BE MOUNTED IN THE INTERIOR OF THE CABINET, ON THE LOAD SIDE OF THE MAIN CIRCUIT BREAKER. THE SPD SHALL BE INSTALLED IN SUCH A WAY THAT THE STATUS LED CAN BE OBSERVED WHEN THE CABINET DOOR IS OPEN. DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH NEC AND LOCAL CODES.



FIXTURE DATA

FIXTURE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
1	A-1	15+28.77 LT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
2	A-1	14+87.37 LT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
3	A-1	14+46.02 LT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
4	A-1	15+28.77 RT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
5	A-1	14+87.37 RT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
6	A-1	14+46.02 RT	FLUSH MOUNT	70	2.5'	RECESSED IN BRIGE 1 WALL	715-11-115
7	A-2	15+28.77 LT	FLOOD ARRAY	230 * 4	NA	SURFACE MOUNTING	715-11-118
8	A-2	14+46.02 LT	FLOOD ARRAY	230 * 4	NA	SURFACE MOUNTING	715-11-118
9	A-2	15+28.77 RT	FLOOD ARRAY	230 * 4	NA	SURFACE MOUNTING	715-11-118
10	A-2	14+46.02 RT	FLOOD ARRAY	230 * 4	NA	SURFACE MOUNTING	715-11-118

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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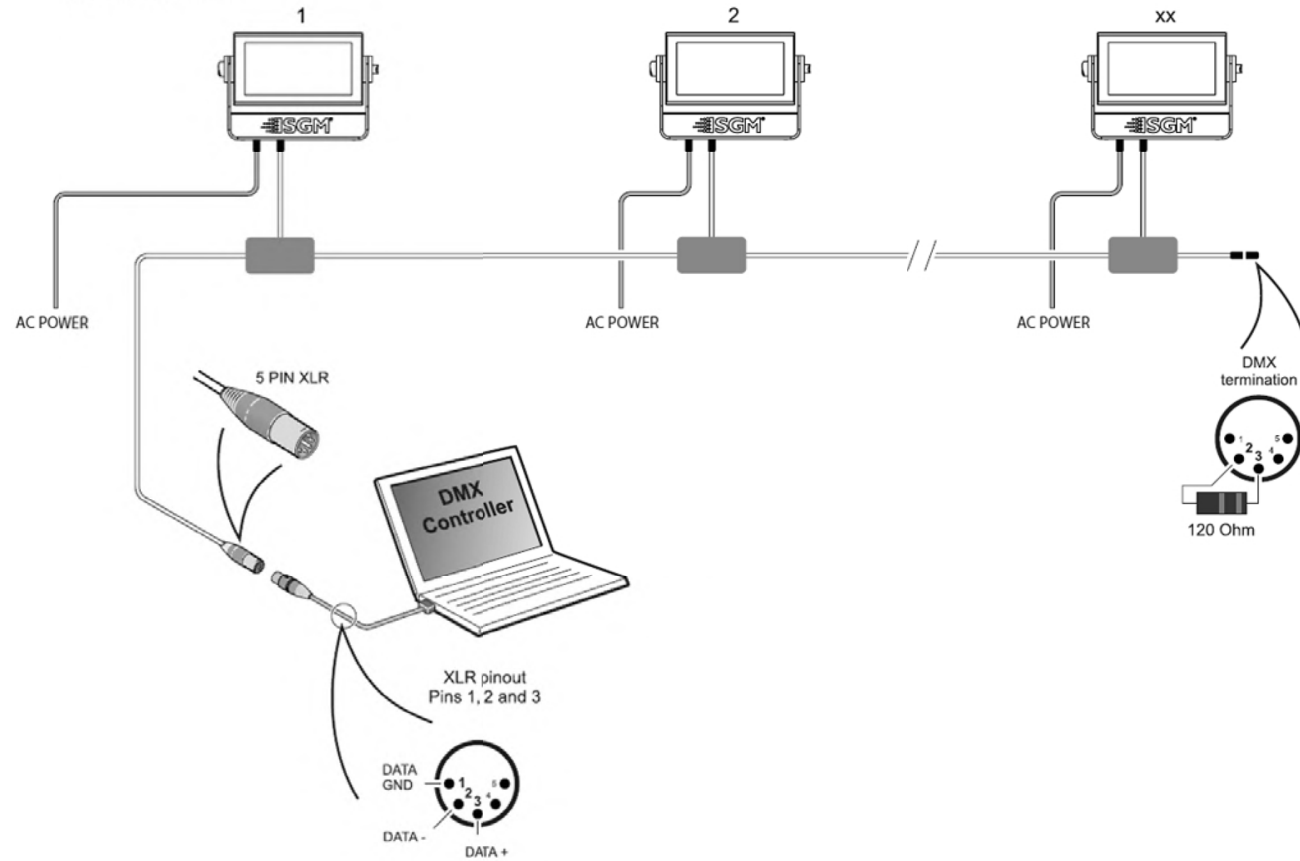
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MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEVEN P. COLE, CHIEF ENGINEER
 101 NW 15TH STREET
 MIAMI, FLORIDA 33128

ELECTRICAL SERVICE DETAILS

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 CONNECTION DIAGRAM



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ENGINEER OF RECORD
Connell Fleming
 3300 CORPORATE CENTER DR. SUITE 701
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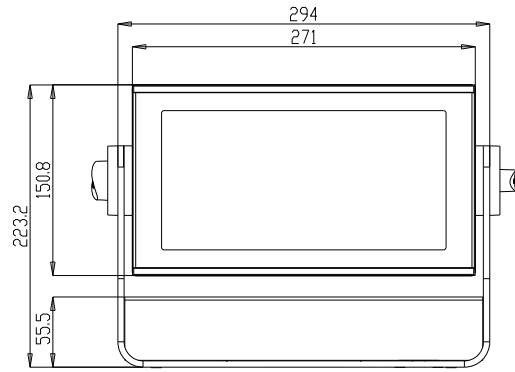
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CASH CENTER
 101 NW 1st
 MIAMI, FLORIDA 33128

DMX COMMUNICATION WIRING DETAIL

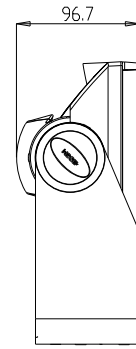
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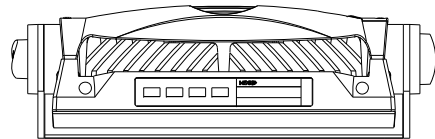
MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 17 OF 43



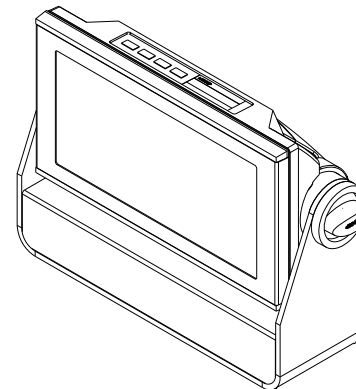
FRONT VIEW



SIDE VIEW



TOP VIEW



ISOMETRIC VIEW

NOTE:

1) FLOOD LIGHTS HAVE LOCKING POINTS IN THE BASE FOR INSTALLATION OF RIGGING AND WILL COME WITH M-10 NUTS AND M-10 SCREWS.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ENGINEER OF RECORD
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DEPARTMENT OF
 TRANSPORTATION AND
 PUBLIC WORKS
 STEPHEN P. CLINE, CHIEF
 111 N.W. 1ST
 MIAMI, FLORIDA 33128

FLOOD LIGHT MOUNTING DETAIL

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- A. DESIGN SPECIFICATIONS**
 1. FOOT STRUCTURES MANUAL DATED JANUARY 2017 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.
 2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 7th EDITION AND ALL SUBSEQUENT INTERIMS.
 3. FOOT PLANS PREPARATION MANUAL DATED JANUARY, 2017 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.
- B. GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS**
 FLORIDA DEPARTMENT OF TRANSPORTATION, 2017 DESIGN STANDARDS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND JANUARY 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.
- C. VERTICAL DATUM**
 ELEVATIONS ARE BASED ON NAVD88. (NAVD88=NGVD29-1.54 FT.)
- D. ENVIRONMENT**
 BRIDGE NUMBER SUPERSTRUCTURE CONCRETE SUBSTRUCTURE CONCRETE
 874495 (SLIGHTLY AGGRESSIVE) (MODERATELY AGGRESSIVE)
- E. DESIGN METHODOLOGY**
 LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE [EXTREME EVENT] AND FATIGUE LIMIT STATES.
- F. DESIGN LOADINGS**
 1. LIVE LOADS: HL-93 WITH DYNAMIC LOAD ALLOWANCE
 2. DEAD LOADS:
 - 32" VERTICAL SHAPE TRAFFIC RAILING 420 PLF
 - PEDESTRIAN/BICYCLE BULLET RAILING 36 PLF
 - REINFORCED CONCRETE 150 PCF
 - FUTURE WEARING SURFACE 15 PSF
 3. CONSTRUCTION LOADS:
 CONTRACTOR TO PROVIDE FORMWORK DESIGN SIGNED AND SEALED BY ENGINEER IN STATE OF FLORIDA FOR FORMWORK, CONSIDERING THE FOLLOWING:
 - FINISHING MACHINE LOAD: (PER CONTRACTOR)
 - FINISHING MACHINE WHEEL LOCATION BEYOND THE EDGE OF DECK 6 INCHES
 - CONSTRUCTION LIVE LOAD: 20 PSF EXTENDED OVER THE ENTIRE BRIDGE WIDTH AND 50-FEET IN LONGITUDINAL LENGTH CENTERED ON THE FINISHING MACHINE.
 - LIVE LOAD AT OR NEAR THE OUTSIDE EDGE OF DECK DURING DECK CASTING: 75 PLF APPLIED AS A MOVING LOAD OVER A LENGTH OF 20 FEET.
 - CONSTRUCTION INACTIVE DESIGN WIND SPEED: 90 MPH
 - VELOCITY PRESSURE EXPOSURE COEFFICIENT (KZ): 1.14
 - CONSTRUCTION ACTIVE DESIGN WIND SPEED: 30 MPH
 4. UTILITIES: NO ALLOWANCE FOR UTILITY LOADS HAS BEEN INCLUDED IN THE DESIGN.
 5. SEISMIC LOADS ARE IN ACCORDANCE WITH AASHTO SPECIFICATIONS AS MODIFIED BY "STRUCTURES DESIGN GUIDELINES", SECTION 2.3.
 6. WIND LOADS ARE IN ACCORDANCE WITH AASHTO SPECIFICATIONS AS MODIFIED BY "STRUCTURES DESIGN GUIDELINES", SECTION 2.4.
- G. MATERIALS**
 1. REINFORCING STEEL: GRADE 60 CARBON STEEL PER FDOT SPECIFICATIONS SECTION 931.
 2. CONCRETE:

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	MODULUS OF ELASTICITY (PSI)	LOCATION OF CONCRETE IN STRUCTURE
II	F'c = 4,500	3.9 x 10 ⁶	APPROACH SLAB
II	F'c = 3,400	3.4 x 10 ⁶	TRAFFIC RAILING BARRIER
IV	F'c = 5,500	4.3 x 10 ⁶	BRIDGE DECK, SUBSTRUCTURE
V	F'c = 6,000	4.5 x 10 ⁶	PRESTRESSED CONCRETE PILING

- CONCRETE COVER:**
 CAST-IN-PLACE SUPERSTRUCTURE 2"
 CAST-IN-PLACE SUBSTRUCTURE (CAST AGAINST EARTH) 4"
 CAST-IN-PLACE SUBSTRUCTURE (FORMED SURFACES) 3"
 PRECAST MEMBERS (PILING) 3"
- CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.
3. PLAIN ELASTOMERIC (NEOPRENE) BEARING PADS SHALL BE 50 DUROMETER WITH A SHEAR MODULUS, G = .115 KSI. FURNISH AND INSTALL PER FDOT SPECIFICATIONS.
- H. DESIGN TEMPERATURES**
 MEAN RISE FROM MEAN FALL FROM MEAN RANGE
 70° F 35° F 35° F 70° F
 COEFFICIENT OF THERMAL EXPANSION = 6.0 X 10⁻⁶ / °F
- I. CHAMFER**
 ALL EXPOSED EDGES AND CORNERS OF CONCRETE SHALL BE CHAMFERED 3/8" UNLESS OTHERWISE NOTED.
- J. PLAN DIMENSIONS**
 ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- K. BRIDGE FLOOR GROOVING**
 BRIDGE FLOOR AND APPROACH SLABS SHALL RECEIVE A CLASS 4 FLOOR FINISH IN ACCORDANCE WITH SECTION 400-15.2.5 OF THE FDOT SPECIFICATIONS.
- L. UTILITIES**
 1. FOR PLAN LOCATIONS OF EXISTING UTILITIES, SEE PLAN AND ELEVATION SHEET(S) FOR DISPOSITION OF UTILITIES. ALL INVOLVED UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK. UTILITIES SHOWN IN PLANS ARE AT APPROXIMATE LOCATIONS.
 2. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES PRIOR TO STARTING WORK. EXISTING UTILITY PILE BENTS TO BE REMOVED BY UTILITY OWNER. FOR DISPOSITION OF UTILITIES, SEE ROADWAY PLANS.
- M. BRIDGE NAME AND NUMBER**
 PLACE THE FOLLOWING BRIDGE NAME AND NUMBER ON THE TRAFFIC RAILINGS IN ACCORDANCE WITH THE TRAFFIC RAILING DESIGN STANDARDS:
 - SW 136th STREET OVER C-100A CANAL (BRIDGE NUMBER 874495)
- N. SCREEDING DECKS**
 SCREED THE RIDING SURFACE OF THE BRIDGE DECK AND APPROACH SLABS TO ACHIEVE THE FINISH GRADE ELEVATIONS SHOWN IN THE PLANS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO SELF WEIGHT, DECK CASTING SEQUENCE, DECK FORMING SYSTEMS, CONSTRUCTION LOADS, OVERLAYS AND TEMPORARY SHORING, ETC. AS REQUIRED.
- O. JOINTS IN CONCRETE**
 CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED IN THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.
- P. EXISTING BRIDGE CONSTRUCTION CONSIDERATIONS**
 1. DIMENSION VERIFICATION: UNLESS OTHERWISE NOTED, THE DIMENSIONS, ELEVATIONS AND INTERSECTING ANGLES SHOWN ARE BASED ON THE INFORMATION AS DETAILED IN THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGES AND MAY NOT REPRESENT AS-BUILT CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS DATA BEFORE BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 2. FOR EXISTING BRIDGE PLANS, SEE MIAMI DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PROJECT NO. 4509. (SHEETS BX-1 THRU BX-13)

- Q. TRAFFIC CONTROL PLANS**
 FOR MAINTENANCE OF TRAFFIC REQUIREMENTS AND DETAILS, SEE ROADWAY PLANS. SHEET NO. 42.
- R. TURBIDITY BARRIER**
 PROVIDE FLOATING TURBIDITY BARRIER AS SHOWN ON SHEET 6 OF ROADWAY PLANS, IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS AND FDOT INDEX 103 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, 2017. TURBIDITY CURTAIN SHALL BE OF SUFFICIENT DEPTH TO REACH THE BOTTOM OF THE CANAL.
- S. ALUMINUM PEDESTRIAN BICYCLE RAILING**
 CONTRACTOR SHALL TACK WELD WASHERS & NUTS TO BASE PLATE TO PREVENT THEFT.

BRIDGE NO. 874495

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REVISIONS			
DATE	BY	DESCRIPTION	DATE



DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	RMG	2-20-20		R.L.	2-20-20
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	RAZ	2-20-20		RMG	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

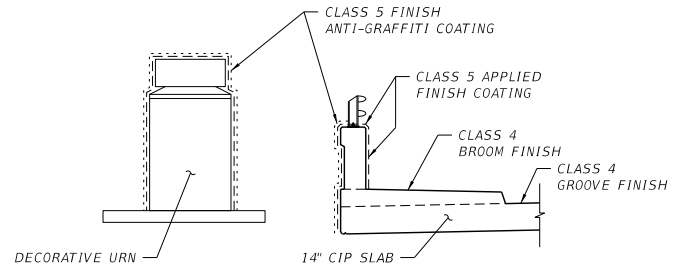


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEVEN P. COLE, CHIEF ENGINEER
 111 NW 1st ST
 MIAMI, FLORIDA 33128

BRIDGE GENERAL NOTES (1 OF 2)

T. APPLIED FINISH COATING
 A CLASS 5 FINISH COATING, FEDERAL COLOR NUMBER 20475, SHALL BE APPLIED TO THE PORTIONS OF THE STRUCTURES SHOWN ON THE SURFACE FINISH DETAIL ON THIS SHEET.

- U. BID ITEM NOTES
1. FOR SUMMARY OF BRIDGE QUANTITIES, SEE SHEET 20.
 2. PAYMENT FOR INCIDENTAL ITEMS, NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES FOR BID ITEMS.
 3. BID ITEM NO. 400-7 INCLUDES AREA OF APPROACH SLAB GROOVING.
 4. FOR MAINTENANCE OF TRAFFIC BID ITEM NOTES, SEE ROADWAY PLANS, SHEET NO. 4.
 5. SEE FDOT SPECIFICATIONS 400-22 FOR METHOD OF MEASUREMENT NOTES.
 6. SEE FDOT SPECIFICATIONS 400-23 FOR BASIS OF PAYMENT NOTES.
 7. THE COST OF PREFORMED HOLES SHALL BE INCLUDED IN THE UNIT COSTS OF PAY ITEM 455-34-3 OR PAY ITEM 455-143-3.




SURFACE FINISH DETAILS

BRIDGE NO. 874495

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD

Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
R.M.G.	R.M.G.	2-20-20	R.L.L.	R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY	R.M.G.	2-20-20
SUPERVISED BY: RAY T. SHAFER, P.E.					

MIAMI-DADE COUNTY

 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR, CENTER
 111 N.W. 1st
 MIAMI, FLORIDA 33128

BRIDGE GENERAL NOTES (2 OF 2)

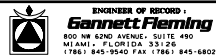
SUMMARY OF STRUCTURE QUANTITIES - BRIDGE 874493

SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
LUMP SUM ITEMS	110-3	REMOVAL OF EXISTING STRUCTURE		LS	1		1			
FOUNDATION	455-34-3	PRESTRESSED CONCRETE PILING, 18" SQUARE		LF	1,170		1,170			
	455-143-3	TEST PILES-PRESTRESSED CONCRETE, 18" SQUARE		LF	253		253			
SUBSTRUCTURE	400-4-5	CONCRETE CLASS IV		CY	81.9		81.9			
	415-1-5	REINFORCING STEEL		LB	12,114		12,114			
APPROACH SLABS	400-2-10	CONCRETE CLASS II		CY	98.5		98.5			
	415-1-9	REINFORCING STEEL		LB	19,449		19,449			
SUPERSTRUCTURE	400-4-4	CONCRETE CLASS IV		CY	225.4		225.4			
	415-1-4	REINFORCING STEEL		LB	55,934		55,934			
	400-9	BRIDGE DECK PLANING & GROOVING, DECK 8.5" AND GREATER		SY	427		427			
	458-1-11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, POURED JOINT W/ BACKER ROD		LF	100		100			
RAILING/BARRIERS	515-4-2	BULLET RAIL, DOUBLE RAIL		LF	243		243			
	521-5-4	CONCRETE TRAFFIC RAILING, BRIDGE 32" VERTICAL FACE		LF	243		243			
	630-2-16	CONDUIT, FURNISH AND INSTALL, EMBEDDED		LF	729		729			
SPECIAL FEATURES	530-4-9	ARTICULATED CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 9"		SY	654		654			
	425-1-511	INLET (TYPE B) (<10') FOR URN FEATURE		EA	4		4		FOR AESTHETIC URN FEATURE	
	400-148	PLAIN NEOPRENE BEARING PADS		CF	9.8		9.8			
	635-3-72	JUNCTION BOX, FURNISH AND INSTALL, EMBEDDED		EA	6		6			
	400-143	CLEANING AND COATING CONCRETE SURFACE, CLASS 5 FINISH		SF	2,669		2,669		CLEANING AND COATING OF CONCRETE SURFACE WITH CLASS 5 FINISH	

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BRIDGE NO. 874493

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

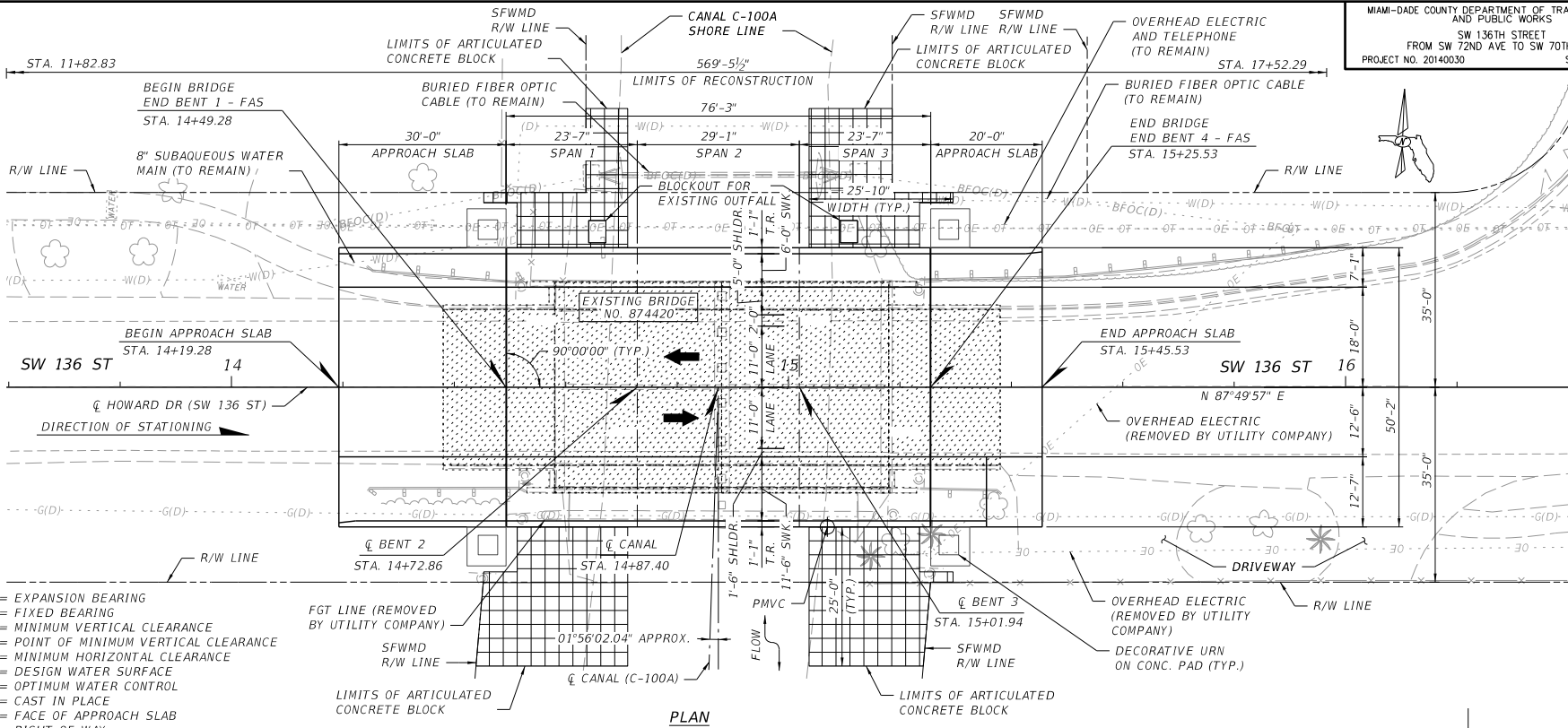


DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	RMG	2-20-20		R.L.	2-20-20
CHECKED BY	RAZ	2-20-20	CHECKED BY	RMG	2-20-20
SUPERVISED BY: RAY T. SHAFER, P.E.					

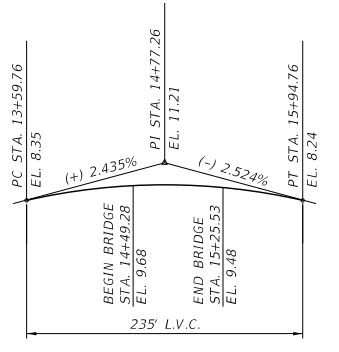
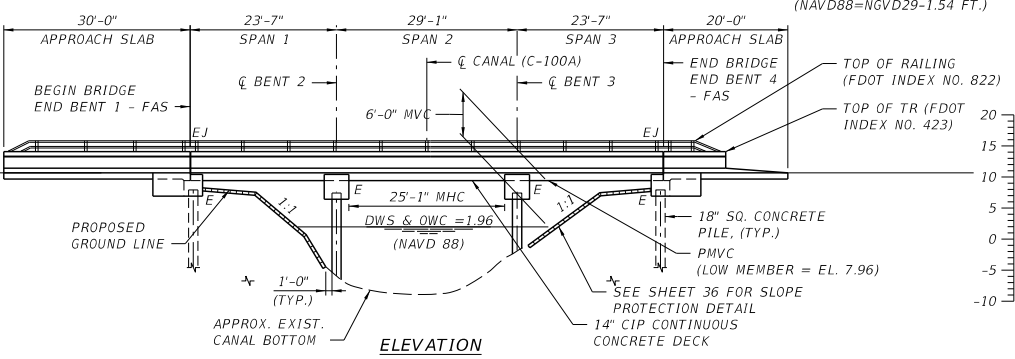


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

BRIDGE SUMMARY OF QUANTITIES



- LEGEND:**
- E = EXPANSION BEARING
 - F = FIXED BEARING
 - MVC = MINIMUM VERTICAL CLEARANCE
 - PMVC = POINT OF MINIMUM VERTICAL CLEARANCE
 - MHC = MINIMUM HORIZONTAL CLEARANCE
 - DWS = DESIGN WATER SURFACE
 - OWC = OPTIMUM WATER CONTROL
 - CIP = CAST IN PLACE
 - FAS = FACE OF APPROACH SLAB
 - R/W = RIGHT-OF-WAY
 - FGT = FLORIDA GAS & TRANSMISSION
 - TR = TRAFFIC RAILING
 - EJ = EXPANSION JOINT
 - ⊕ = APPROX. BORING LOCATION
 - ⊕ = POINT OF MINIMUM VERTICAL CLEARANCE
 - ⊕ = EXISTING BRIDGE TO BE REMOVED
 - ▨ = ARTICULATED CONCRETE BLOCK



VERTICAL CURVE DATA
 BRIDGE NO. 874495

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REVISIONS			
DATE	BY	DESCRIPTION	

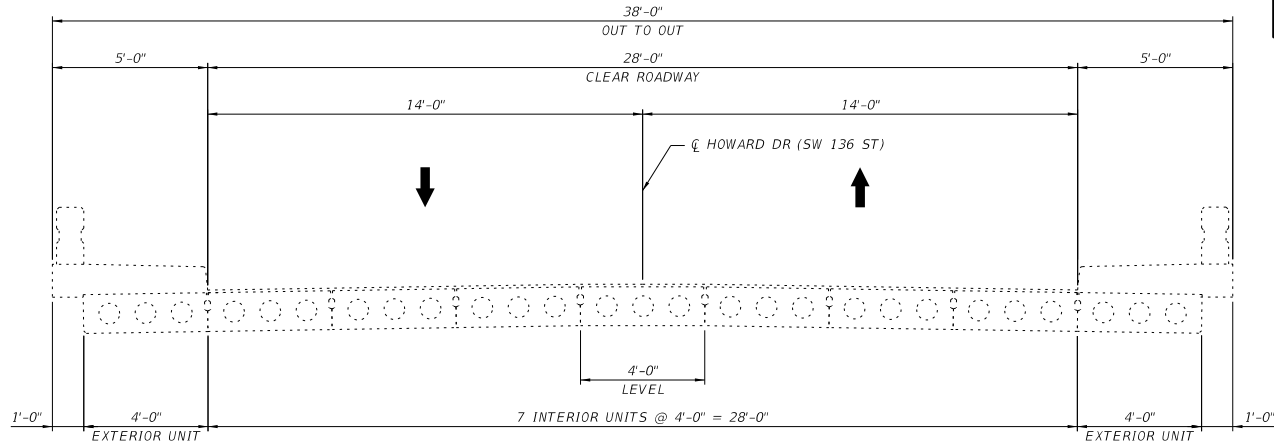
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	RMG	2-20-20		R.L.	2-20-20
CHECKED BY	RAZ	2-20-20	CHECKED BY	RMG	2-20-20

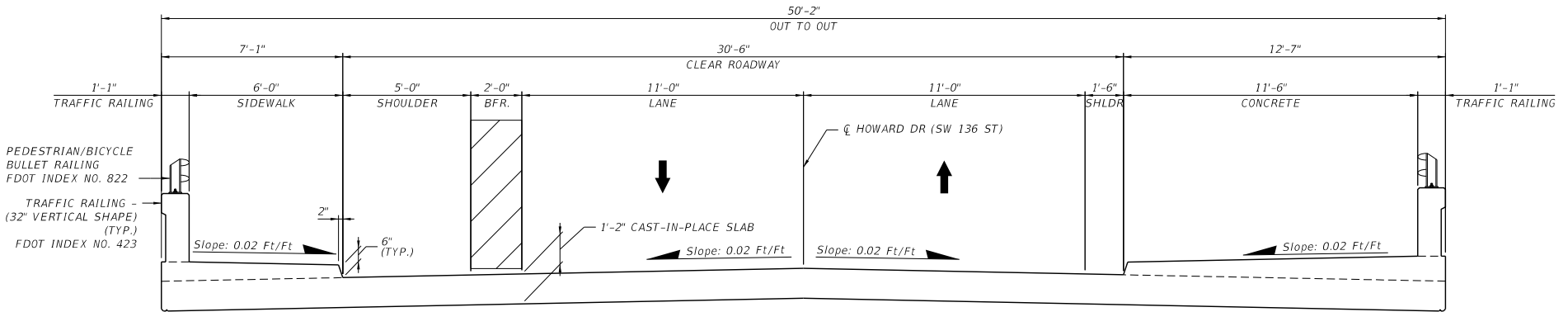
APPROVED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STANLEY P. CANNON CENTER
 115 W. 1ST ST.
 MIAMI, FLORIDA 33130

PLAN AND ELEVATION



EXISTING SECTION THROUGH BRIDGE



PROPOSED SECTION THROUGH BRIDGE

BFR. = BUFFER

BRIDGE NO. 874495

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REVISIONS				
DATE	BY	DESCRIPTION	DATE	BY

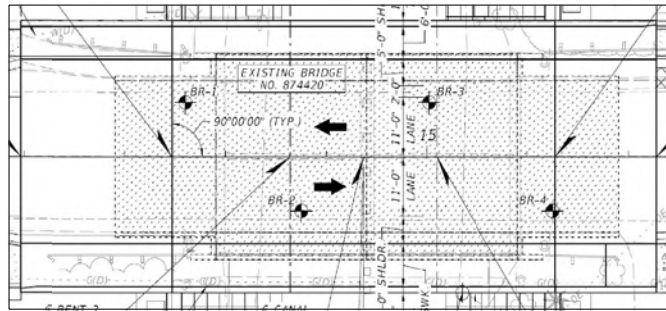
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY	R.M.G.	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33128

TYPICAL SECTION

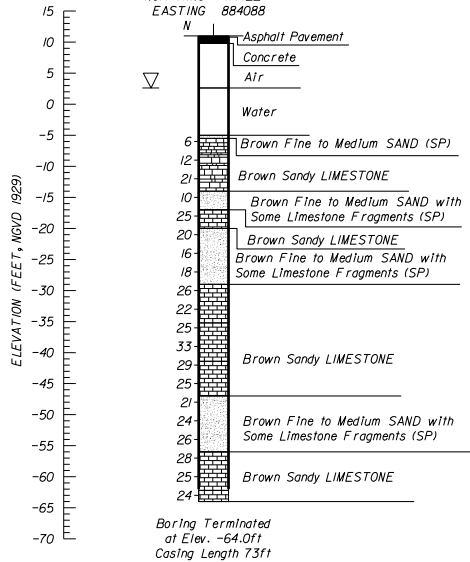


BORING LOCATION PLAN

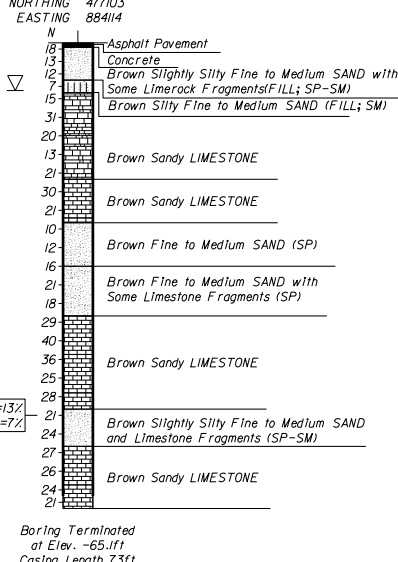


BOR # BR-3
 STA. 15+00 Howard Dr. C/L Const.
 OFF. 10'LT
 ELEV. +11.0'
 DATE 1/6/2017
 DRILLER R. Morales - GEOSOL, Inc.
 HAMMER Auto
 RIG B-53
 NORTHING 477122
 EASTING 884088

BOR # BR-4
 STA. 15+25 Howard Dr. C/L Const.
 OFF. 10'RT
 ELEV. +9.9'
 DATE 1/4/2017
 DRILLER R. Morales - GEOSOL, Inc.
 HAMMER Auto
 RIG B-53
 NORTHING 477103
 EASTING 884114



Boring Terminated at Elev. -64.0ft
 Casing Length 73ft



NMC=13%
 ~200=17%

Boring Terminated at Elev. -64.1ft
 Casing Length 73ft

- LEGEND**
- ASPHALT PAVEMENT/CONCRETE
 - SAND (FILL; SP-SM)
 - SAND (FILL; SM)
 - UPPER LIMESTONE FORMATION
 - SAND (SP, SP-SM)
 - LOWER LIMESTONE FORMATION
 - WATER TABLE AT TIME OF DRILLING
 - APPROXIMATE SPT BORING LOCATION
 - CASING USED

NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION (UNLESS OTHERWISE NOTED).

NMC NATURAL MOISTURE CONTENT (%)
 -200 FINES PASSING THE #200 SIEVE (%)
 → PERIODIC TOTAL LOSS OF DRILLING FLUID CIRCULATION

NOTES:
 1) SPT BORINGS PERFORMED PER ASTM D-1586 WITH A HAMMER WEIGHT OF 140 LBS FALLING 30 INCHES.

ENVIRONMENTAL CLASSIFICATION:
 SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE
 SUBSTRUCTURE: MODERATELY AGGRESSIVE
WATER:
 pH: 8.0
 CHLORIDE: 162 PPM
 SULFATE: 35 PPM
 RESISTIVITY: 1,063 OHM-CM

- NOTE FOR EXCAVATION AND PILE DRIVING:**
- 1) THE CONTRACTOR IS ADVISED THAT CAVING SATURATED SANDY SOILS MAY BE ENCOUNTERED DURING THE EXCAVATION, FOR INSTALLATION OF THE DRIVEN PILES, WHICH MAY REQUIRE THE USE OF TEMPORARY FULL LENGTH CASING PER FDOT STANDARD SPECIFICATIONS.
 - 2) THE CONTRACTOR IS ADVISED THAT DENSE TO VERY DENSE SOIL AND/OR STRONG NATURAL LIMESTONE LAYER MAY BE ENCOUNTERED DURING THE EXCAVATION AND/OR PILE DRIVING WHICH MAY REQUIRE SPECIAL EQUIPMENT TO EXCAVATE OR PENETRATE.
 - 3) THE CONTRACTOR IS ADVISED THAT PERIODIC TOTAL LOSS OF CIRCULATION WAS EXPERIENCED DURING THE PERFORMANCE OF THE BORINGS WHICH MAY POSE FOUNDATION CONSTRUCTION DIFFICULTIES TO THE CONTRACTOR.

GRANULAR MATERIALS-RELATIVE DENSITY	AUTOMATIC SPT HAMMER (BLOWS PER FOOT)
VERY LOOSE	LESS THAN 3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTANCY	AUTOMATIC SPT HAMMER (BLOWS PER FOOT)
VERY SOFT	LESS THAN 1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	GREATER THAN 24

BRIDGE NO. 874495

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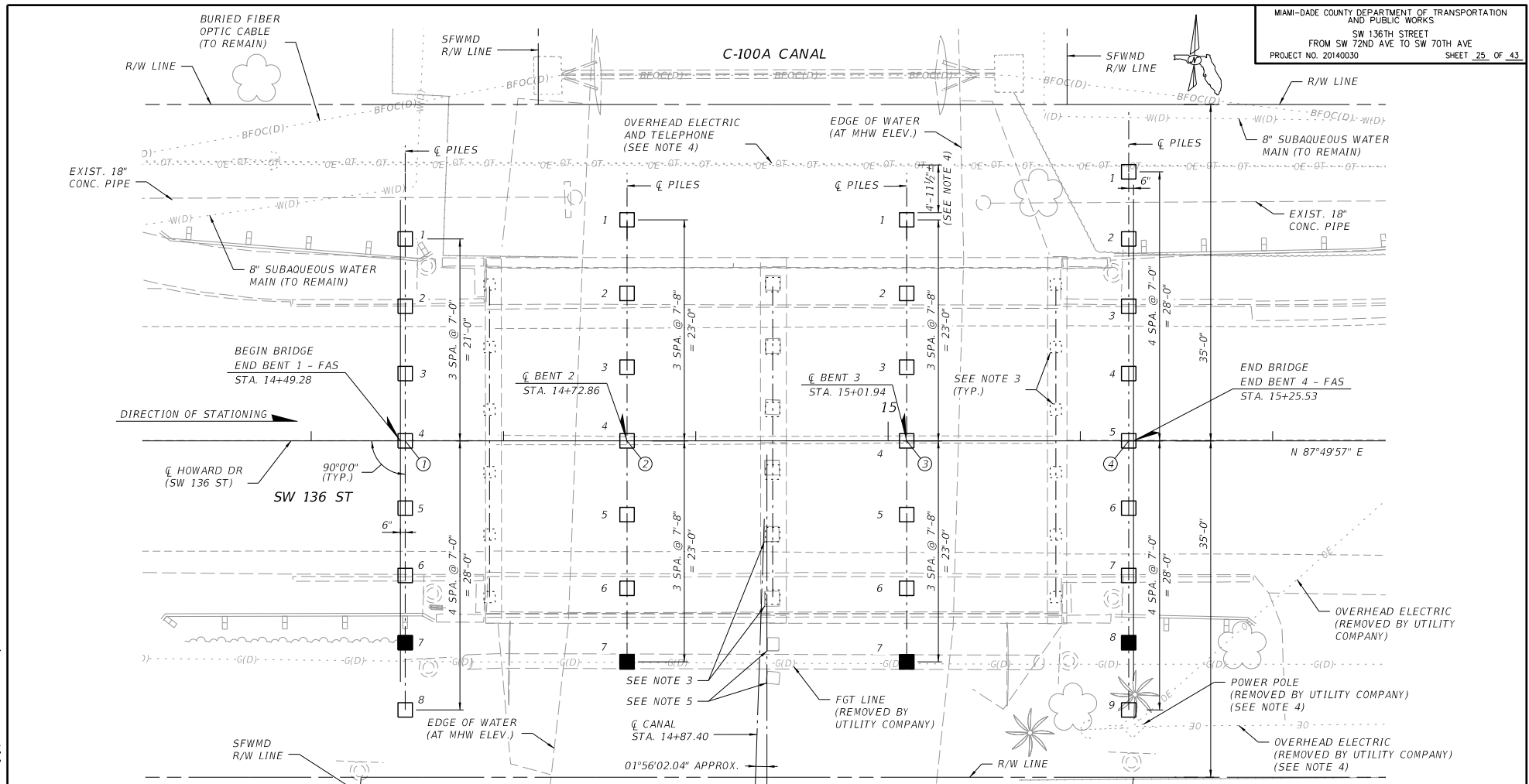
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
 GEOSOL, INC.
 ORACIO RICCIARDI, P.E. - PE LICENSE NO. 49324
 9199-A NW 15TH STREET, MIAMI LAKES, FL 33014
 PHONE: (305) 878-4367
 CERTIFICATE OF AUTHORIZATION 8530

DESIGNED BY	DATE	DRAWN BY	DATE
A1	04-21-17	JLS	04-21-17
CHECKED BY	DATE	CHECKED BY	DATE
ZC	04-21-17	OK	04-21-17

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR, CENTER
 111 NW 1ST
 MIAMI, FLORIDA 33136

REPORT OF CORE BORINGS (2 OF 2)



LEGEND:

- PROPOSED 18" SQ. PRESTRESSED CONCRETE PILE
- PROPOSED 18" TEST PILE
- ⊙ EXISTING 14" PILE
- # PILE NUMBER
- FAS = FACE OF APPROACH SLAB
- R/W = RIGHT-OF-WAY
- MHW = MEAN HIGH WATER

TABLE A		
WORK POINTS	COORDINATES	
	X	Y
①	884,037.913	477,107.293
②	884,060.980	477,108.166
③	884,090.043	477,109.266
④	884,113.109	477,110.139

NOTES:

1. FOR PILE DATA TABLE AND CUT-OFF ELEVATIONS, SEE SHEET 26.
2. FOR FOUNDATION NOTES, SEE SHEET 18.
3. EXISTING PILES IN CONFLICT WITH PROPOSED PILES SHALL BE REMOVED. OTHER EXISTING PILES SHALL BE CUT A MINIMUM OF 2 FEET BELOW THE EXISTING CANAL SECTION OR USACE CANAL DESIGN SECTION, WHICHEVER PRODUCES THE LOWER ELEVATION.
4. ELECTRIC LINES HAVE BEEN RELOCATED. CONTRACTOR TO COORDINATE WITH FPL TO DE-ENERGIZE ELECTRIC LINES AS REQUIRED.
5. PILES OF THE PILE-SUPPORTED GAS MAIN SHALL BE CUT A MINIMUM OF 2 FEET BELOW THE EXISTING CANAL SECTION OR USACE CANAL DESIGN SECTION WHICH PRODUCES THE LOWER ELEVATION. BRIDGE NO. 874495

PLAN

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
R.M.G.	R.M.G.	2-20-20	R.L.L.	R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY	R.M.G.	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33136

FOUNDATION LAYOUT

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PILE DATA TABLE

Table Date 01/01/16

INSTALLATION CRITERIA								DESIGN CRITERIA							PILE CUT-OFF ELEVATIONS										
PIER or BENT NUMBER	PILE SIZE (in.)	NOMINAL BEARING RESISTANCE (tons)	NOMINAL UPLIFT RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	TEST PILE LENGTH (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	FACTORED DESIGN UPLIFT LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft.)	Ø COMPRESSION	Ø UPLIFT	PILE 1	PILE 2	PILE 3	PILE 4	PILE 5	PILE 6	PILE 7	PILE 8	PILE 9	
EB 1	18	113	N/A	-15.00	59	N/A	-5.00	73.4	0	0	N/A	N/A	N/A	0.65	N/A	6.513	6.653	6.793	6.933	6.793	6.653	6.513	6.373		
BT 2	18	139	N/A	-36.00	68	N/A	-19.00	88.0	0	0	2	2	-10	0.65	N/A	6.043	6.196	6.350	6.503	6.350	6.196	6.043			
BT 3	18	139	N/A	-36.00	68	N/A	-19.00	88.0	0	0	2	2	-10	0.65	N/A	5.968	6.121	6.275	6.428	6.275	6.121	5.968			
EB 4	18	113	N/A	-15.00	58	N/A	-5.00	73.4	0	0	N/A	N/A	N/A	0.65	N/A	6.176	6.316	6.456	6.596	6.736	6.596	6.456	6.316	6.176	

$$\frac{\text{Factored Design Load} + \text{Net Scour Resistance} + \text{Down Drag}}{0} \leq \text{Nominal Bearing Resistance}$$

UPLIFT RESISTANCE - The ultimate side friction capacity that must be obtained below the 100 year scour elevation to resist pullout of the pile (Specify only when design requires uplift capacity).
TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil.
NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.
100-YEAR SCOUR ELEVATION - Estimated elevation of scour due to the 100 year storm event.

PILE INSTALLATION NOTES [Notes Date 7-01-13]:

Contractor to verify location of all utilities prior to any pile installation activities.
 Minimum Tip Elevation is required for lateral stability.
 When a required jetting elevation is shown, the jet shall be lowered to the elevation and continue to operate at this elevation until the pile driving is completed. If jetting or preforming elevations differ from those shown on the table, the Engineer shall be responsible for determination of the required driving resistance.
 No jetting will be allowed without the approval of the Engineer.
 The Contractor should not anticipate being allowed to jet piles below the 100-year scour elevation or required jet elevation, whichever is deeper.
 At each Bent, pile driving is to commence at the center of the Bent and proceed outward.

NOTES:

- 3 Ft. of scour was accounted for in the design of piles.
- Elevations are based on NAVD88 (NAVD88 = NGVD29-1.54 FT.)
- The Contractor shall submit a Settlement/Vibration Monitoring Plan, (SVMP), prior to commencing work. SVMP shall describe the equipment to be used for pile driving and list all structures to be monitored, including number and location of monitoring points. As a minimum, the structures located at the following addresses shall be monitored for settlement and vibrations prior to, during, and after construction in accordance with sections 108 and 455-1.1 of the FDOT Standard Specifications for Road and Bridge Construction:
 - 7101 SW 136th Street
 - 7170 SW 136th Street
 - 7150 SW 136th Street
 - 13590 SW 70th Avenue

BRIDGE NO. 87495

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REVISIONS			
DATE	BY	DESCRIPTION	DATE

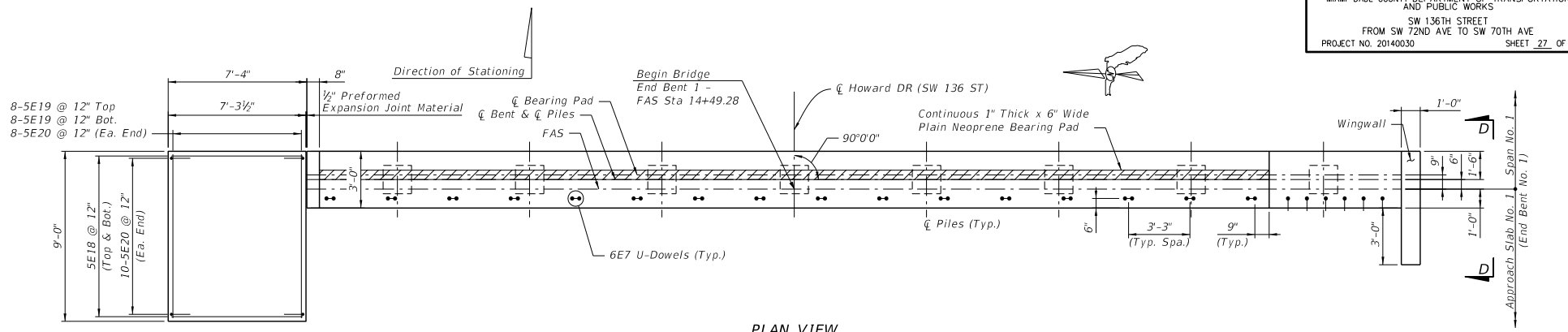


NAME	DATE	NAME	DATE
DESIGNED BY: R.M.G.	2-20-20	DRAWN BY: R.L.L.	2-20-20
CHECKED BY: R.A.Z.	2-20-20	CHECKED BY: R.M.G.	2-20-20

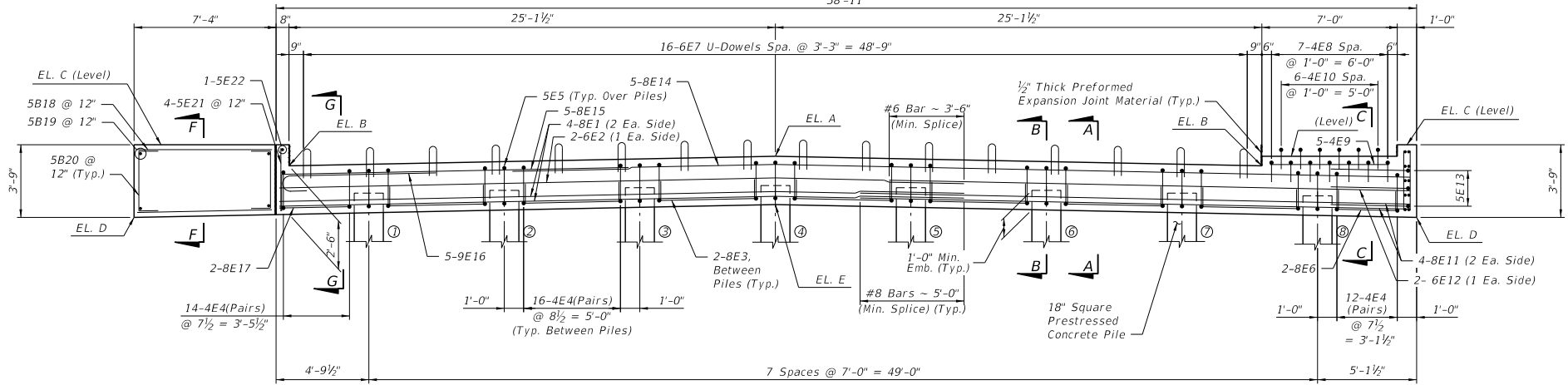


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33128

PILE DATA TABLE



PLAN VIEW



ELEVATION

(End Bent 1 - Looking Ahead Station)

⊗ = Pile Number at End Bent 1

- NOTES:
- For Sections A-A through D-D, F-F and G-G, See End Bent Detail Sheet No. 28 and 28A.
 - For Pile Cut-off Elevations, See Pile Data Table Sheet No. 26.

ELEVATION TABLE					
BENT NUMBER	A	B	C	D	E
End Bent 1	8.433	7.931	9.021	5.271	5.933

BRIDGE NO. 874995

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

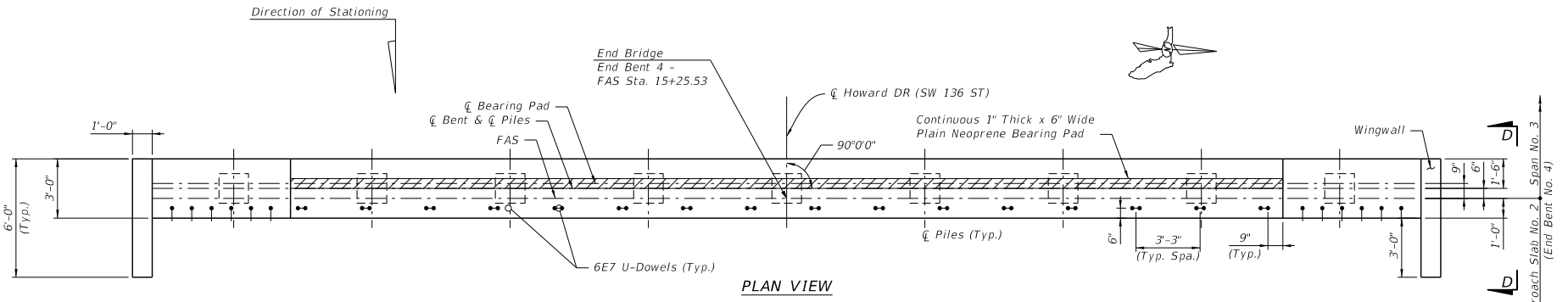
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	RAZ	2-20-20	CHECKED BY		

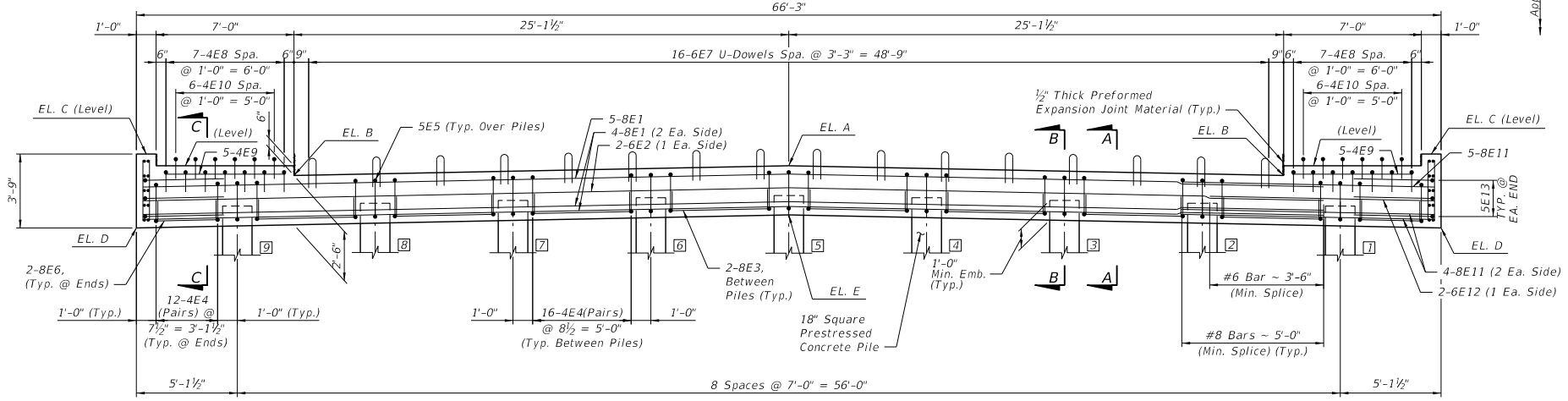
SUPERVISED BY: RAY T. SIMPSON, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 N.W. 151 ST.
 MIAMI, FLORIDA 33125

END BENT 1



PLAN VIEW



ELEVATION
 (End Bent 4 - Looking Back Station)

[7] = Pile Number at End Bent 4

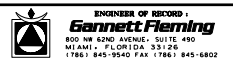
NOTES:

1. For Sections A-A through D-D, See End Bent Detail Sheet No. 28.
2. For Pile Cut-off Elevations, See Pile Data Table Sheet No. 26.
3. Lapping for bars 8E1/8E11 and 6E2/6E12 shall alternate to each end of the End Bent Cap.

ELEVATION TABLE					
BENT NUMBER	A	B	C	D	E
End Bent 4	8.236	7.734	8.824	5.074	5.736

BRIDGE NO. 874495

REVISIONS					
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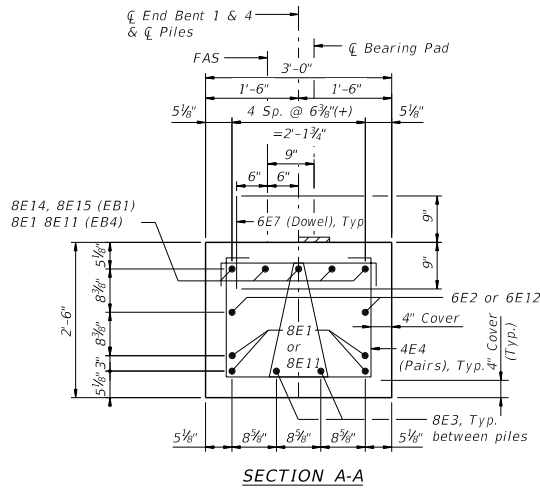


DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

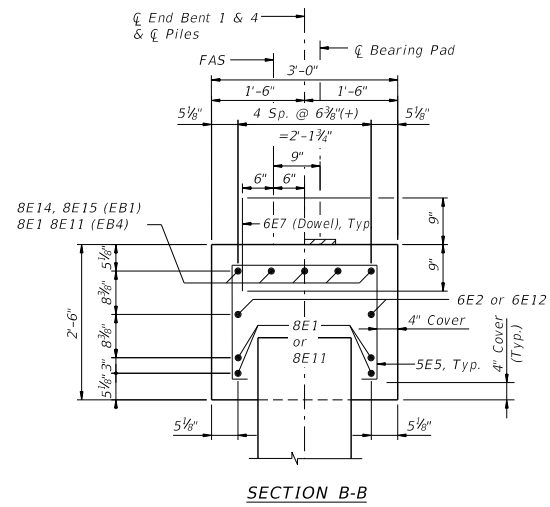


END BENT 4

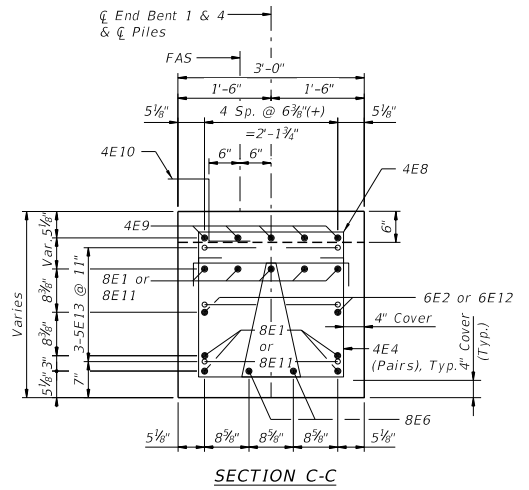
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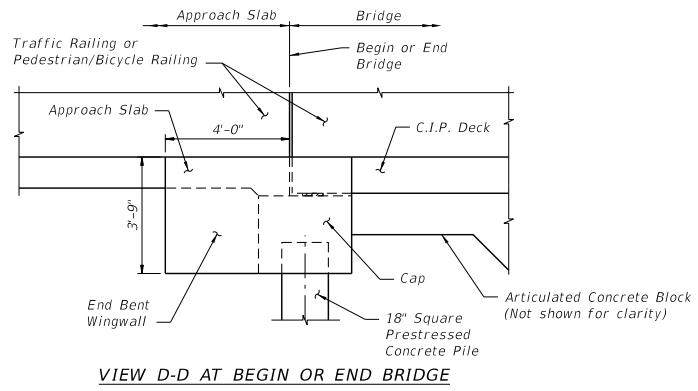
SECTION A-A



SECTION B-B

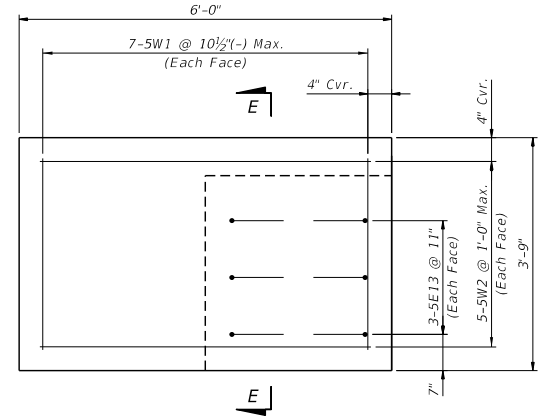


SECTION C-C

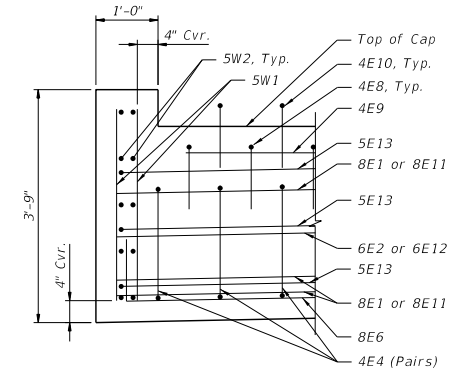


VIEW D-D AT BEGIN OR END BRIDGE

(U.N.O.) = Unless Noted Otherwise



END BENT WINGWALL DETAIL
(Wingwall Elevation)



SECTION E-E

- NOTES:**
 1) For location of Sections "A-A" & "C-C" and View B-B, see End Bents Sheet No. 27 and 27A.

BRIDGE NO. 874995

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

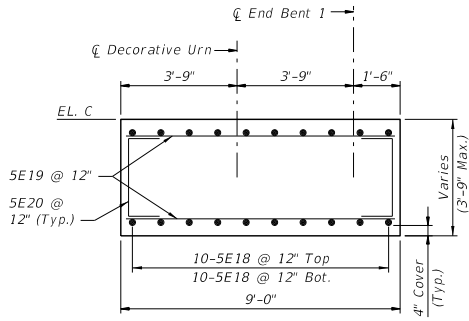
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY	R.M.G.	2-20-20

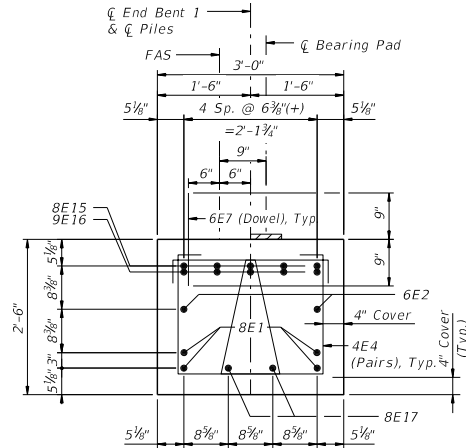
SUPERVISED BY: RAY T. SIMPSON, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 1111 N.W. 1ST ST.
 MIAMI, FLORIDA 33136

END BENT DETAILS 1



SECTION F-F



SECTION G-G

NOTES:
 1) For location of Sections "F-F" and "G-G", see End Bent Sheet No. 27.

BRIDGE NO. 874495

3/27/2023 6:28:05 AM c:\pwworking\p\paw03\mcs-38228-EndBentDetail.DWG

REVISIONS			
DATE	BY	DESCRIPTION	DATE

ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

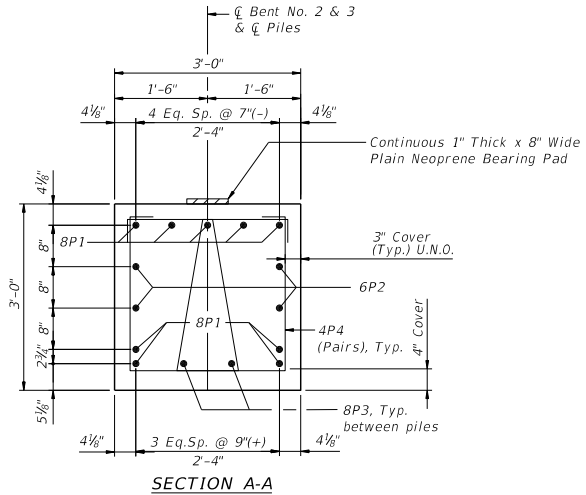
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY	R.M.G.	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

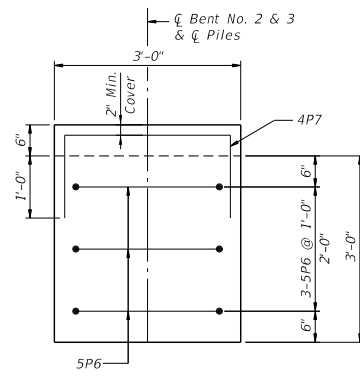
MIAMI-DADE COUNTY

 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CASH CENTER
 111 NW 1st
 MIAMI, FLORIDA 33138

END BENT DETAILS 2

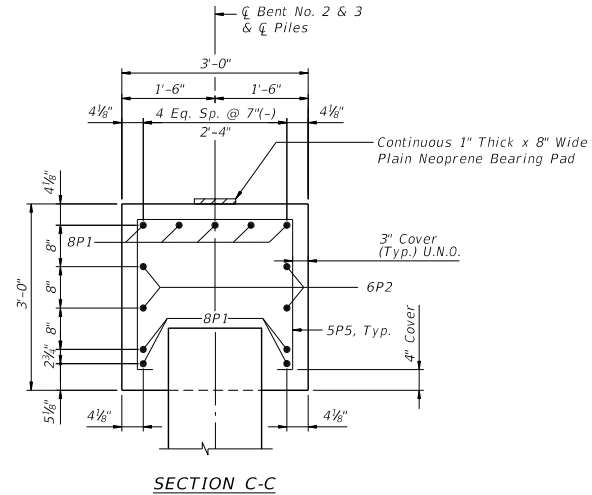


SECTION A-A



VIEW B-B

(Bent Cap reinforcing not shown for clarity.)



SECTION C-C

(U.N.O.) = Unless Noted Otherwise

NOTES:

1) For location of Sections "A-A" & "C-C" and View B-B, see Bent Sheet No. 29.

BRIDGE NO. 874495

3/27/2023 6:28:59 AM c:\pwworking\p\paw03\mcs-38228\mBentDetail.dgn

REVISIONS				
DATE	BY	DESCRIPTION	DATE	DESCRIPTION

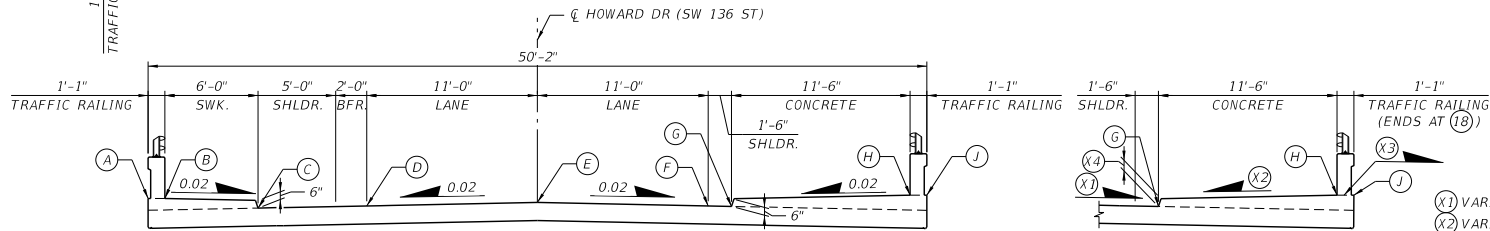
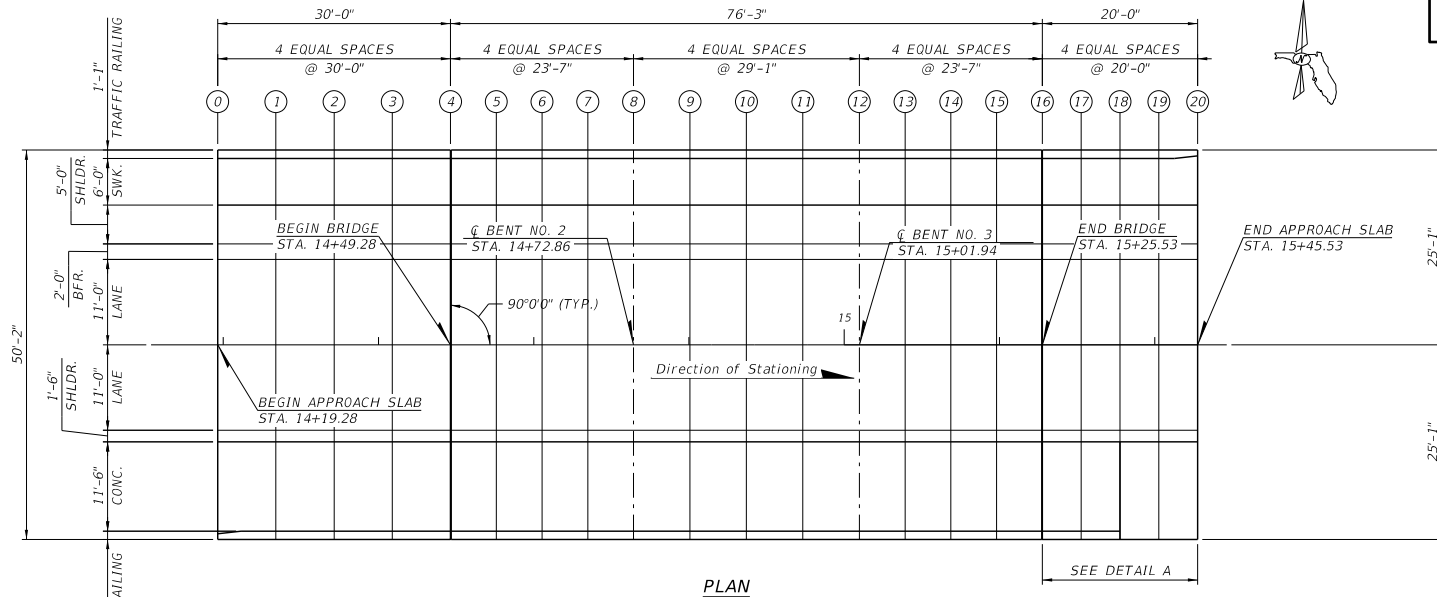
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY			CHECKED BY		
	R.A.Z.	2-20-20		R.M.G.	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR CENTER
 111 NW 1st
 MIAMI, FLORIDA 33128

BENT DETAILS



- (X1) VARIES FROM 2% AT (16) TO 6% AT (20)
- (X2) VARIES FROM 2% AT (16) TO -2% AT (20)
- (X3) VARIES FROM 0% AT (18) TO 2% AT (20)
- (X4) VARIES FROM 6" AT (18) TO 0" AT (20)

APPROACH SLAB 1					
LOCATION	0	1	2	3	4
A	9.681	9.764	9.835	9.893	9.940
B	9.681	9.764	9.835	9.893	9.940
C	9.064	9.147	9.218	9.276	9.323
D	9.204	9.287	9.358	9.416	9.463
E	9.424	9.507	9.578	9.636	9.683
F	9.204	9.287	9.358	9.416	9.463
G	9.174	9.257	9.328	9.386	9.433
H	9.904	9.987	10.058	10.116	10.163
J	9.904	9.987	10.058	10.116	10.163

BRIDGE																
LOCATION	4	5	6	7	8	9	10	11	12	13	14	15	16			
A	9.940	9.969	9.990	10.004	10.010	10.008	9.995	9.971	9.935	9.898	9.854	9.802	9.743			
B	9.940	9.969	9.990	10.004	10.010	10.008	9.995	9.971	9.935	9.898	9.854	9.802	9.743			
C	9.323	9.352	9.373	9.387	9.393	9.391	9.378	9.354	9.318	9.281	9.237	9.185	9.126			
D	9.463	9.492	9.513	9.527	9.533	9.531	9.518	9.494	9.458	9.421	9.377	9.325	9.266			
E	9.683	9.712	9.733	9.747	9.753	9.751	9.738	9.714	9.678	9.641	9.597	9.545	9.486			
F	9.463	9.492	9.513	9.527	9.533	9.531	9.518	9.494	9.458	9.421	9.377	9.325	9.266			
G	9.433	9.462	9.483	9.497	9.503	9.501	9.488	9.464	9.428	9.391	9.347	9.295	9.236			
H	10.163	10.192	10.213	10.227	10.233	10.231	10.218	10.194	10.158	10.121	10.077	10.025	9.966			
J	10.163	10.192	10.213	10.227	10.233	10.231	10.218	10.194	10.158	10.121	10.077	10.025	9.966			

APPROACH SLAB 2					
LOCATION	16	17	18	19	20
A	9.743	9.687	9.626	9.560	9.488
B	9.743	9.687	9.626	9.560	9.488
C	9.126	9.070	9.009	8.943	8.871
D	9.266	9.210	9.149	9.083	9.011
E	9.486	9.430	9.369	9.303	9.231
F	9.266	9.210	9.149	9.083	9.011
G	9.166	9.165	9.089	9.008	8.921
H	9.896	9.778	9.589	9.140	8.691
J	9.896	9.778	9.589	9.129	8.669

BRIDGE NO. 874995

3/27/2023 6:28:27 AM c:\pwworking\paw03\mcs38228\FinGrElev.dwg

REVISIONS			
DATE	BY	DESCRIPTION	DATE

ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

NAME	DATE	NAME	DATE
DESIGNED BY: RMG	2-20-20	DRAWN BY: R.L.	2-20-20
CHECKED BY: RAZ	2-20-20	INCHES BY: R.L.	2-20-20

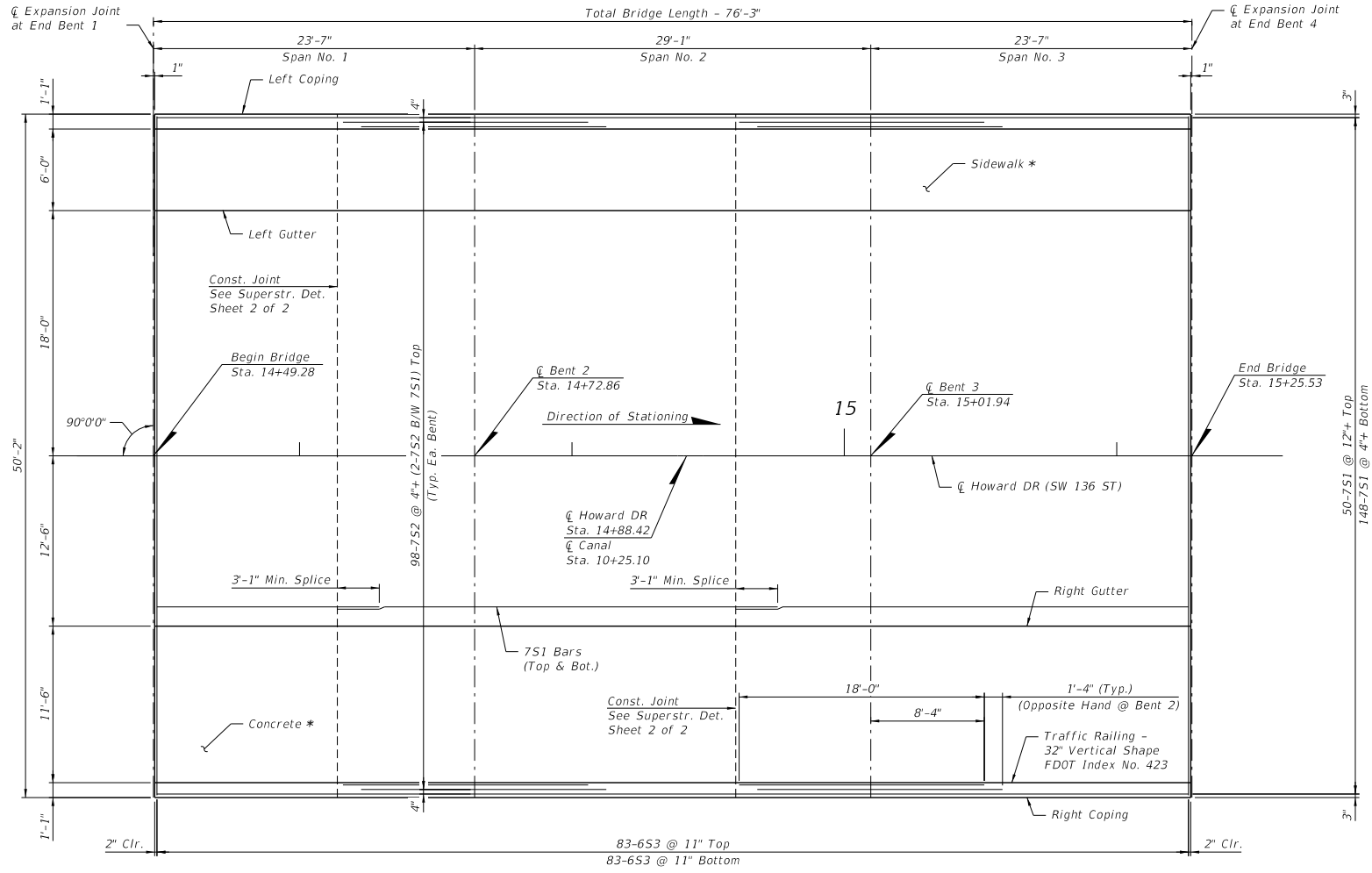
MIAMI-DADE COUNTY
 SUPERVISOR: RAY T. SHAFER, P.E.

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 101 NW 1ST ST.
 MIAMI, FLORIDA 33138

FINISH GRADE ELEVATIONS



* For Bars in Sidewalk/Concrete, See Superstructure Detail, sheet 2 of 2.



PLAN

BRIDGE NO. 874495

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

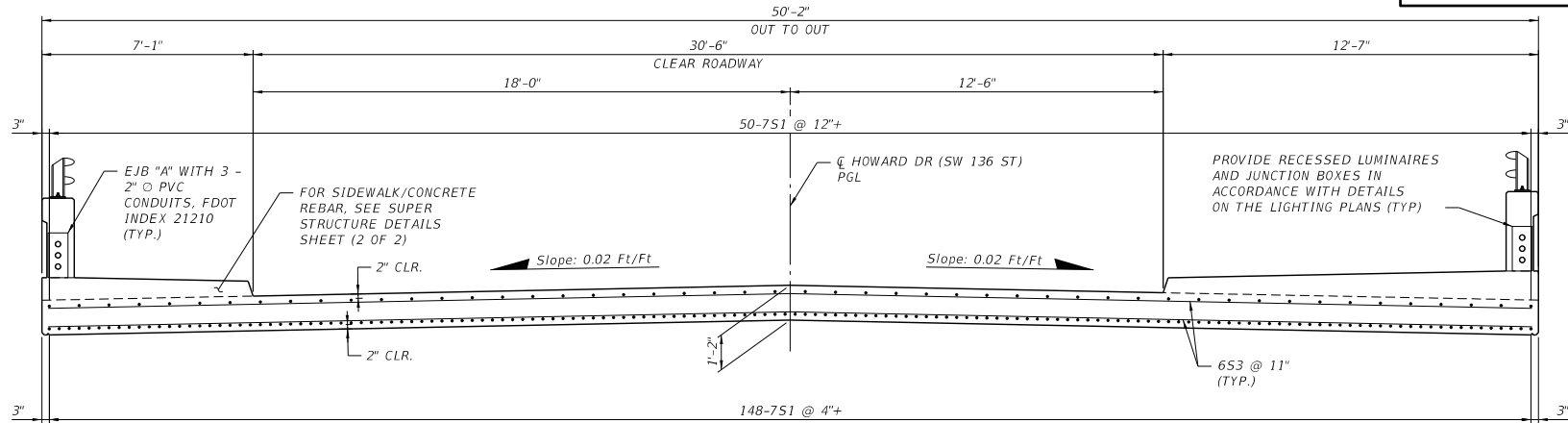
ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	RAZ	2-20-20	CHECKED BY	R.M.G.	2-20-20

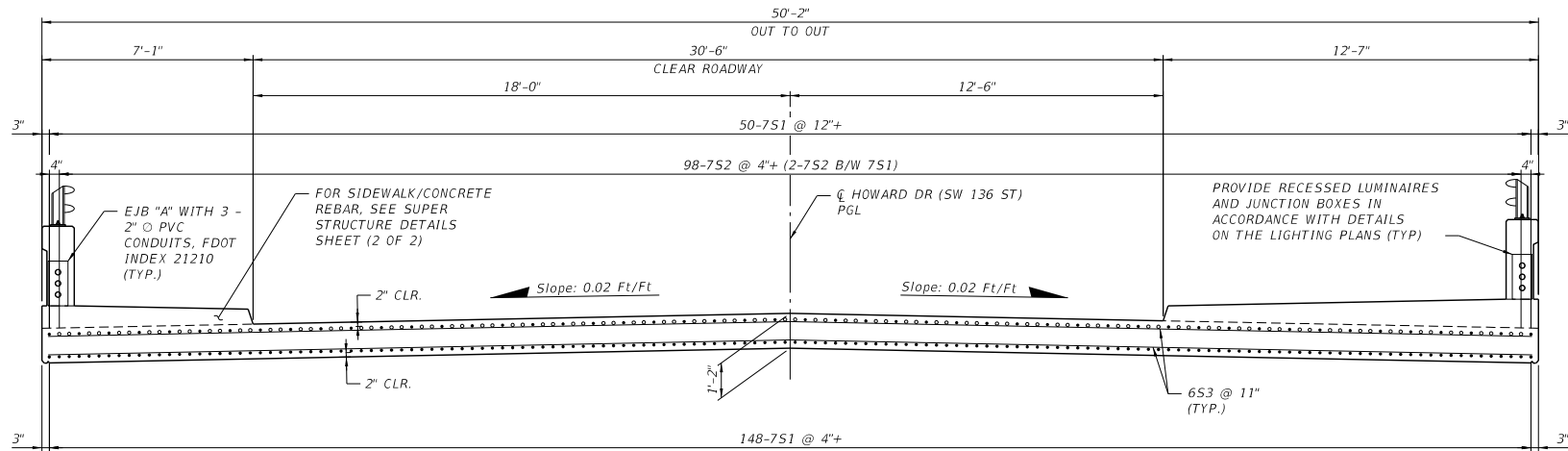
SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 N.E. 1ST
 MIAMI, FLORIDA 33132

SUPERSTRUCTURE PLAN



DECK SECTION AT MID SPAN



DECK SECTION AT BENTS

BRIDGE NO. 874495

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3/27/2023

REVISIONS			
DATE	BY	DESCRIPTION	

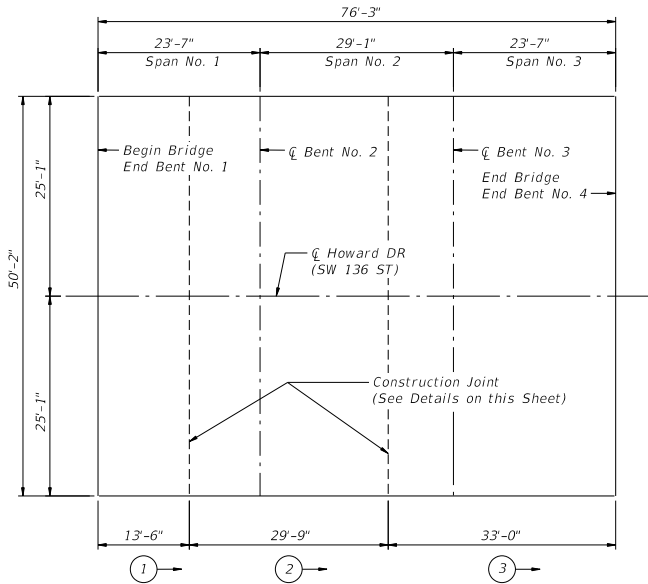
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY		
SUPERVISED BY: RAY T. SHAFER, P.E.					



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

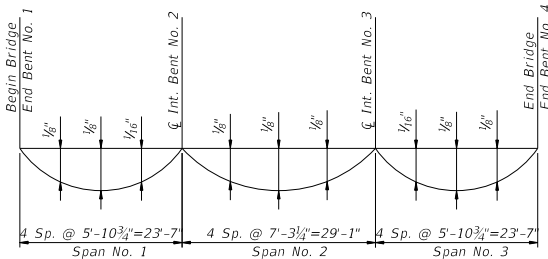
SUPERSTRUCTURE DETAILS (1 OF 2)



CASTING SEQUENCE

NOTES:

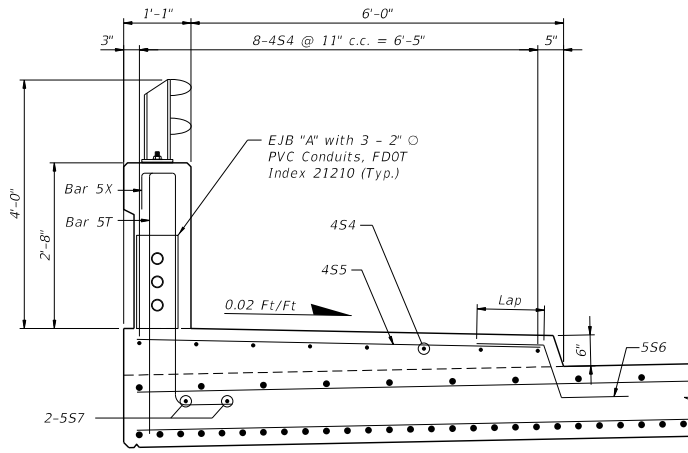
The Slab Casting Sequence may not be changed unless the Contractor's Specialty Engineer performs a new structural analysis and new deflection diagrams and revised slab reinforcing steel layouts and bar list, are developed.



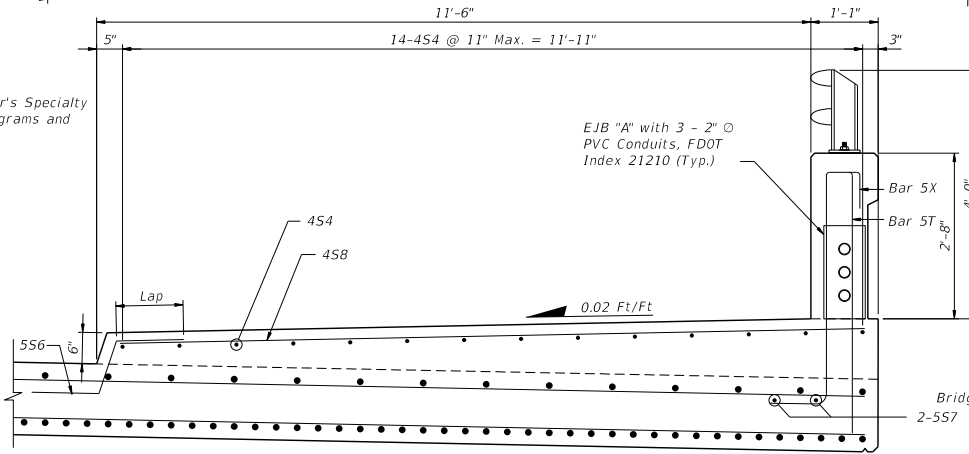
DEAD LOAD DEFLECTION DIAGRAM 3-SPAN CONTINUOUS SUPERSTRUCTURE

NOTES:

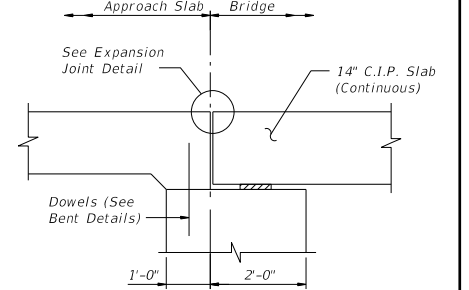
- The Contractor is responsible for determining the deflection of the formwork due to the weight of the wet slab concrete, screed, and other construction loads in conjunction with the casting sequence shown.
- The Contractor shall camber the forms to compensate for the combined effect of the deflection of forms and the dead load deflection of the slab.



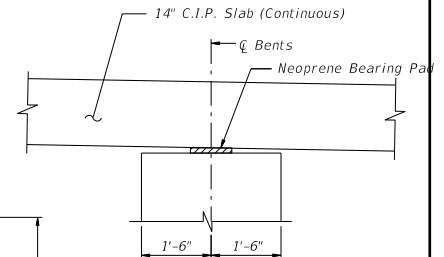
DETAIL "A"
(Left Sidewalk)



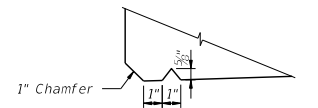
DETAIL "B"
(Right Concrete)



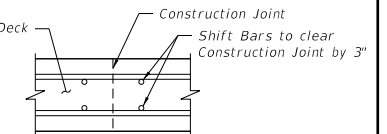
DETAIL AT END BENTS
(Slab reinforcing not shown for clarity)



DETAIL AT BENTS
(Slab reinforcing not shown for clarity)



DRIP GROOVE DETAIL



CONSTRUCTION JOINT DETAIL

BRIDGE NO. 874995

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

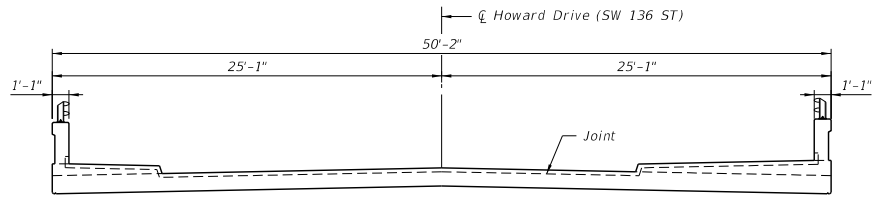
ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

ISSUED BY	NAME	DATE	ISSUED BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
	R.A.Z.	2-20-20		R.M.G.	2-20-20

DESIGNED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33128

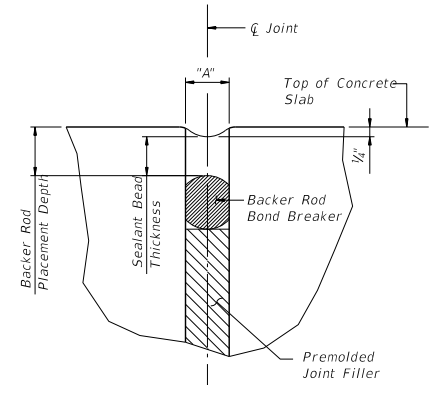
SUPERSTRUCTURE DETAILS (2 OF 2)



SECTION ALONG CL JOINT

NOTE:
 1. Use Poured Joint with Backer Rod per FDOT Std. Index 21110

POURED EXPANSION JOINT DATA TABLE INDEX NO. 21110			
			Table Date 1-01-09
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
End Bent 1	2"	1/4"	1/32"
End Bent 4	2"	1/8"	1/64"
NOTE: Dim. "A" adjustment per 10°F shown is measured perpendicular to CL Expansion Joint. Work this table with Design Standards Index No. 21110.			



EXPANSION JOINT DETAIL

BRIDGE NO. 874495

3/27/2023 6:28:32 AM c:\pwworking\pwworking\dwg\20140030\20140030.dwg

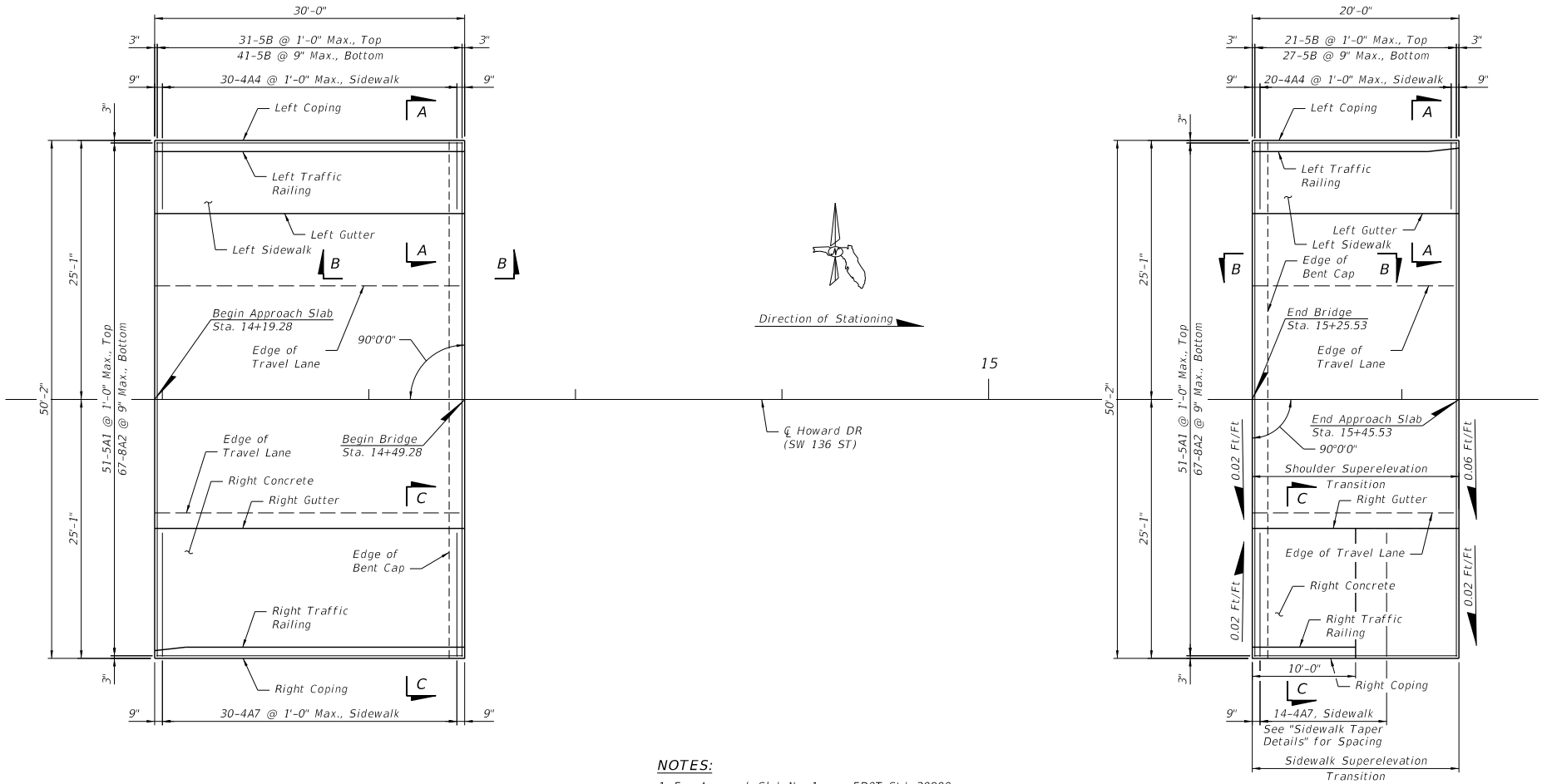
REVISIONS			
DATE	BY	DESCRIPTION	DATE

ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	R.A.Z.	2-20-20	CHECKED BY		
SUPERVISED BY: RAY T. SHAFER, P.E.					

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CUMMINGS CENTER
 111 NW 1 ST
 MIAMI, FLORIDA 33128

EXPANSION JOINT DETAILS



APPROACH SLAB NO. 1

APPROACH SLAB NO. 2

- NOTES:**
 1. For Approach Slab No. 1, see FDOT Std. 20900.
 2. For Approach Slab No. 2, see FDOT Developmental Std. D20920.

BRIDGE NO. 874495

3/27/2023 6:28:35 AM c:\pwworking\p\paw03\mcs38228-ApproachSlab01.DGN

REVISIONS			
DATE	BY	DESCRIPTION	

ENGINEER OF RECORD

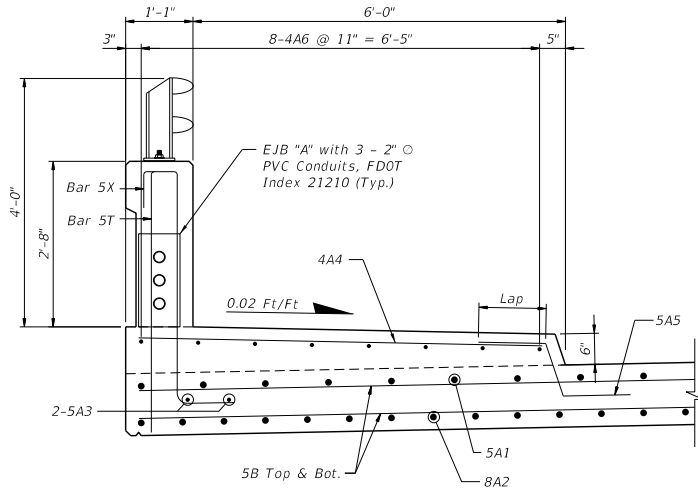
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17861 845-9540 FAX 17861 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY	RAZ	2-20-20	CHECKED BY	R.M.G.	2-20-20

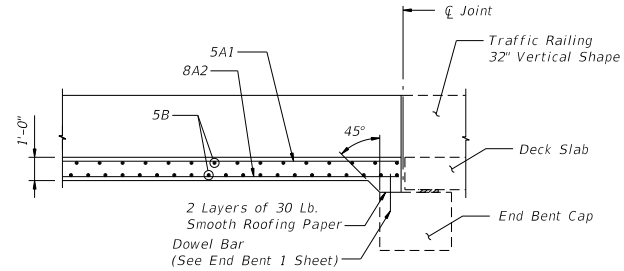
SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33136

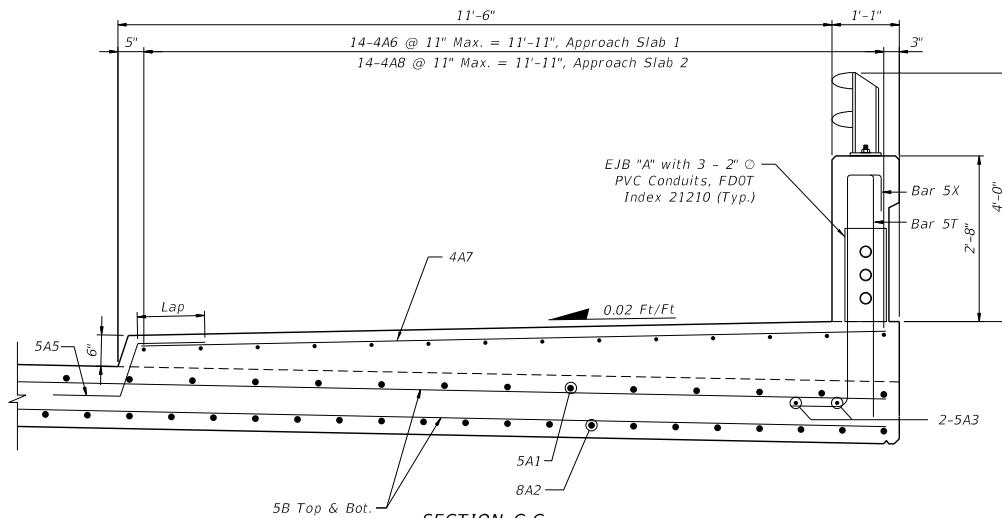
APPROACH SLAB PLAN



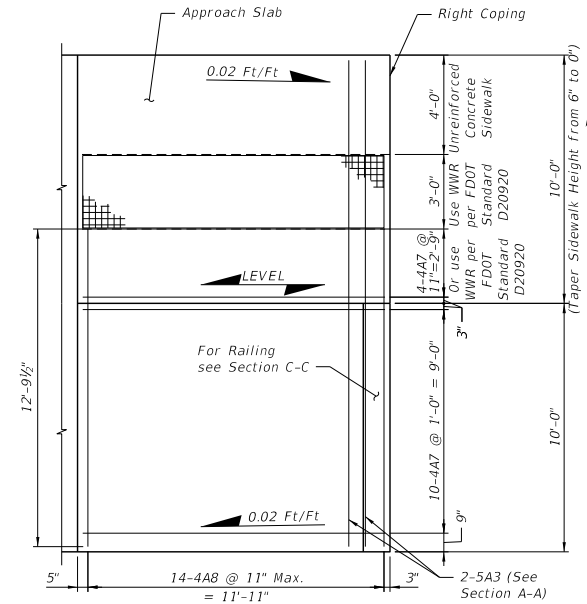
SECTION A-A



SECTION B-B



SECTION C-C



CONCRETE TAPER DETAILS

BRIDGE NO. 87495

0:28:35 AM c:\pwworking\p\paw03\mcs38228-ApproachSlab01.dgn 3/27/2023

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD

Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	RMG	2-20-20		R.L.	2-20-20
CHECKED BY	RAZ	2-20-20			

SUPERVISED BY: RAY T. SIMPSON, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SIMPSON P. CANNON CENTER
 111 NW 51 ST
 MIAMI, FLORIDA 33126

APPROACH SLAB DETAILS

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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 38 OF 43

MARK	LENGTH	NO	TYP	STY	B		C		D		E		F		H		J		K		N	Ø		
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
LOCATION SUBSTRUCTURE END BENT NO 4 NO. REQUIRED = 1																								
8	E1	60-0	9	12				32-10	27-2														2	
6	E2	60-0	2	12				32-10	27-2															2
8	E3	6-10	16	11				4-10	1-0	1-0														
4	E4	7-4	152	9	4	4		1-7 3/4	1-10	0-4 3/4														
5	E5	6-6	9	5				1-10	2-4	0-3														
8	E6	5-10	4	11				3-10	1-0	1-0														
6	E7	3-3	16	23				1-4	0-2 1/4	1-4														
4	E8	4-4	14	11				2-4	1-0	1-0														
4	E9	6-0	10	1				6-0																
4	E10	1-11	12	32				0-7	0-8	0-8														
8	E11	10-10	9	1				10-10																
6	E12	9-5	2	1				9-5																
5	E13	4-10	12	10				4-0	0-10															
LOCATION SUBSTRUCTURE BENTS NO 2 & 3 NO. REQUIRED = 2																								
8	P1	50-9	9	12				25-4 1/4	25-4 1/2															2
6	P2	50-9	4	12				25-4 1/2	25-4 1/2															2
8	P3	7-6	12	11				5-6	1-0	1-0														
4	P4	8-9	120	9	4	4		1-9	2-5 1/4	0-5														
5	P5	8-0	7	5				2-6	2-6	0-3														
5	P6	4-6	6	11				2-6	1-0	1-0														
5	P7	5-6	2	11				2-6	1-6	1-6														
LOCATION SUPERSTRUCTURE DECK NO. REQUIRED = 1																								
7	S1	81-11	198	41				16-4	32-4															2
7	S2	18-0	196	1				18-0																
6	S3	49-10	166	12				24-11	24-11															2
4	S4	79-11	22	2				4-2	75-9															1
4	S5	6-5	83	1				6-5																
5	S6	3-7	166	20				1-1	0-4 3/4	0-0 1/2														
5	S7	79-11	4	2				4-2	75-9															1
4	S8	11-11	83	1				11-11																
LOCATION APPROACH SLAB NO 1 NO. REQUIRED = 1																								
5	A1	29-8	51	1				29-8																
8	A2	29-8	67	1				29-8																
5	A3	29-8	4	1				29-8																
4	A4	6-5	30	1				6-5																
5	A5	3-7	60	20				1-1	0-4 3/4	0-0 1/2														
4	A6	29-8	22	1				29-8																
4	A7	11-11	30	1				11-11																
5	B	49-8	72	12				24-10	24-10															2
LOCATION APPROACH SLAB NO 2 NO. REQUIRED = 1																								
5	A1	19-8	51	1				19-8																
8	A2	19-8	67	1				19-8																
5	A3	19-8	4	1				19-8																
4	A4	6-5	20	1				6-5																
5	A5	3-7	34	20				1-1	0-4 3/4	0-0 1/2														
4	A6	19-8	8	1				19-8																
4	A7	11-11	14	1				11-11																
4	A8	12-10	14	1				12-9 1/2																
5	B	49-8	48	12				24-10	24-10															
LOCATION WINGWALL NO. REQUIRED = 3																								
5	W1	3-1	14	1				3-1																
5	W2	5-4	10	1				5-4																
END OF LIST																								

NOTE:
 1. Work this sheet with FDOT Standard Index No. 21300.
 2. Field bend B bars to accommodate Superelevation transition on right shoulder and right sidewalk.

BRIDGE NO. 874495

REVISIONS			
DATE	BY	DESCRIPTION	DATE



ISSUED BY	NAME	DATE	ISSUED BY	NAME	DATE



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEVEN P. COLE, CHIEF ENGINEER
 111 NW 1 ST
 MIAMI, FLORIDA 33126

REINFORCING BAR LIST 1

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MARK SIZE	DES	LENGTH		NO	TYP	STY	B		C		D		E		F		H		J		K		N	Ø
		FT	IN				BARS	BAR	AG	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT		
		LOCATION		SUBSTRUCTURE		END BENT		NO 1		NO. REQUIRED = 1														
8	E1	34	8	4	12		25	6	9	9														2
6	E2	34	8	2	12		25	6	9	9														2
8	E3	6	10	14	11		4	10	1	0	1	0												
4	E4	7	4	138	9	4	1	7	3/4	1	10	0	4	3/4	1	3								
5	E5	6	6	8	5		1	10	2	4	0	3	0	3										
8	E6	5	10	2	11		3	10	1	0	1	0												
6	E7	3	3	16	23		1	4	0	2/4	1	4												
4	E8	4	4	7	11		2	4	1	0	1	0												
4	E9	6	0	5	1		6	0																
4	E10	1	11	6	32		0	7	0	8	0	8												
8	E11	28	5	4	1		28	5																
6	E12	26	11	2	1		26	11																
5	E13	4	10	6	10		4	0	0	10														
5	E14	45	10	5	12		32	10	13	0														2
8	E15	19	11	5	10		17	11	2	0														
9	E16	9	2	5	17	1	7	11																
8	E17	3	5	2	1		3	5																
5	E18	6	8	20	1		6	8																
5	E19	8	4	16	1		8	4																
5	E20	7	1	36	11		3	1	2	0	2	0												
5	E21	3	1	4	1		3	1																
5	E22	2	4	1	1		2	4																

END OF LIST

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 38A OF 43

NOTE:
 1. Work this sheet with FDOT Standard Index No. 21300.
 2. Field bend B bars to accomodate Superelevation transition on right shoulder and right sidewalk.

BRIDGE NO. 874495

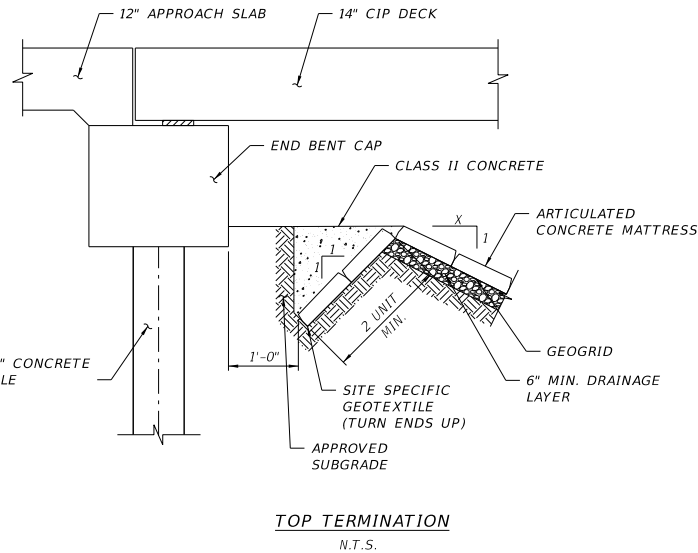
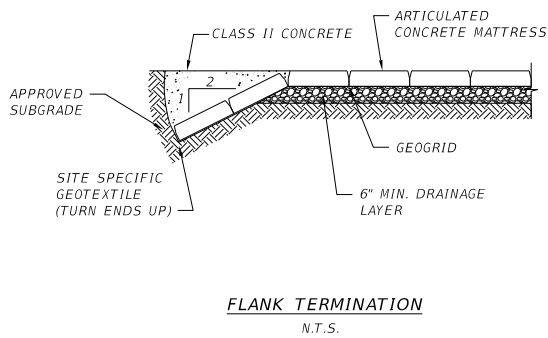
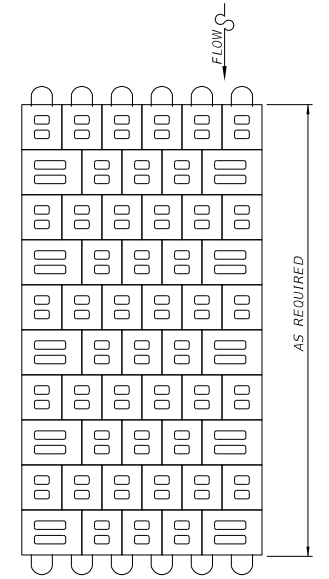
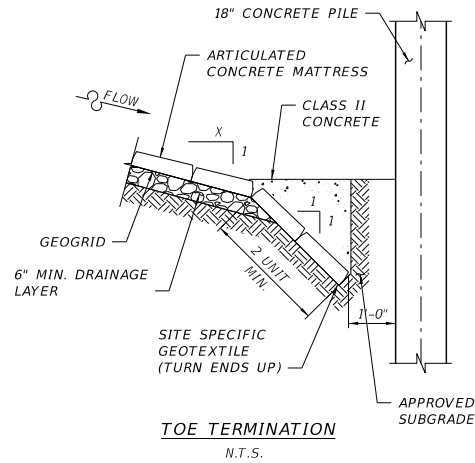
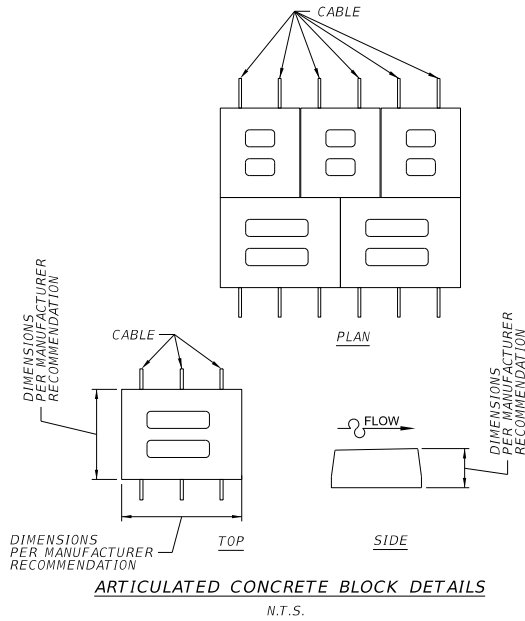
REVISIONS			
DATE	BY	DESCRIPTION	

ENGINEER OF RECORD
 **Gannett Fleming**
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

NAME	DATE	NAME	DATE
DESIGNED BY	2-20-20	DRAWN BY	R.L.L. 2-20-20
CHECKED BY	2-20-20	CHECKED BY	2-20-20
SUPERVISED BY: RAY T. SIMPSON, P.E.			

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CARR, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

REINFORCING BAR LIST 2



NOTES

1. THE CONTRACTOR SHALL INSTALL THE ARTICULATED CONCRETE BLOCK MATTRESS SYSTEM TO MEET DISTRICT'S STANDARDS AND REQUIREMENTS UNDER SECTION 02277, AND THAT IS SUITABLE FOR A FLOW VELOCITY OF 3.3 FT/S.
2. SUBMIT SHOP DRAWINGS INCLUDING MANUFACTURER'S PRODUCT SPECIFICATIONS, GEOMETRIC LAYOUT AND SPECIAL DETAILS AROUND PIPES OR UTILITIES WHEN IN CONFLICT.
3. CLASS II CONCRETE IS REQUIRED TO FILL THE GAP BETWEEN CONFLICT ELEMENTS AND ARTICULATED BLOCK.

BRIDGE NO. 874495

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD

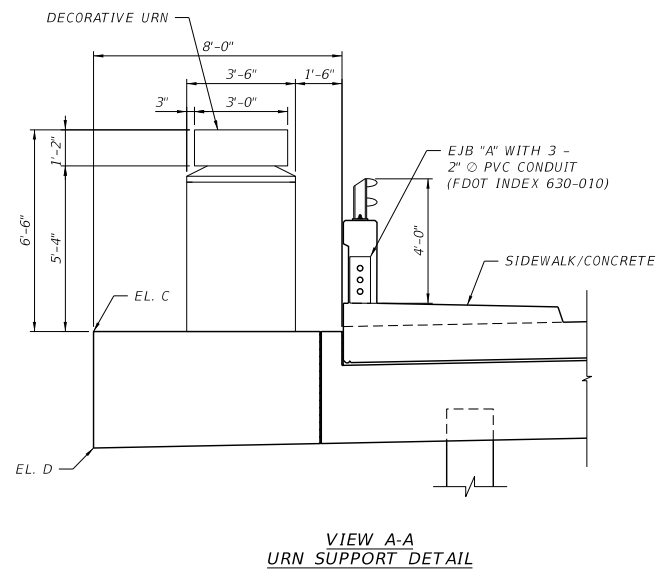
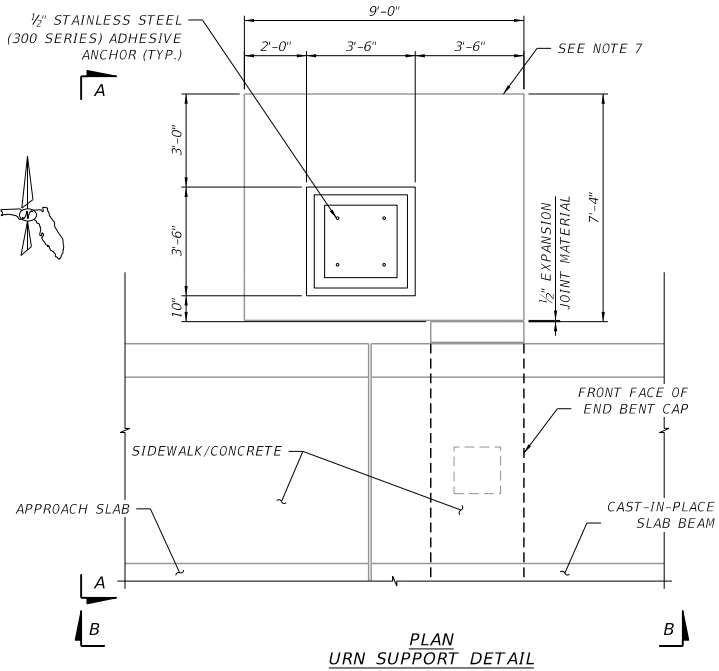
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

NAME	DATE	NAME	DATE
DESIGNED BY: R.M.G.	2-20-20	DRAWN BY: R.L.L.	2-20-20
CHECKED BY: R.A.Z.	2-20-20	CHECKED BY: R.M.G.	2-20-20

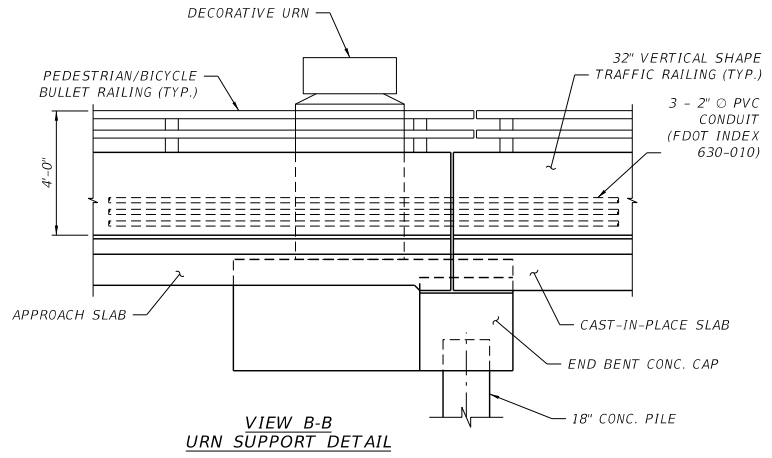
SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF ENGINEER
 111 W.W. 1ST
 MIAMI, FLORIDA 33128

SLOPE PROTECTION DETAILS



- NOTES:**
1. USE MATERIAL SPECIFICATIONS FROM FDOT STANDARD PLANS 425-010 ONLY FOR BOTTOM PART OF URN FEATURE. USE PAY ITEM 425-1-511, FOR THE ENTIRE COST OF THE URN FEATURE.
 2. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL FOR THE PRECAST CONCRETE URN AND BASE, INCLUDING ALL REINFORCEMENT DETAILS AND REINFORCEMENT SCHEDULE.
 3. LOCATE REBAR IN SLAB USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING FOR ADHESIVE ANCHORS.
 4. THE ADHESIVE ANCHORS ARE INCIDENTAL TO PAY ITEM 425-1-511.
 5. FOR ELEVATIONS C & D, SEE END BENT 1 SHEET.
 6. DETAILS ON THIS SHEET ARE APPLICABLE AT THE NORTH CORNER OF END BENT 1. FOR DETAILS NOT SHOWN ON THIS SHEET, SEE MISCELLANEOUS DETAILS 1 SHEET.
 7. PROVIDE FLOODLIGHT ARRAY ON DECORATIVE URN CONCRETE PAD IN ACCORDANCE WITH DETAILS ON THE LIGHTING PLANS



BRIDGE NO. 87495

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 (786) 845-9540 FAX (786) 845-6802

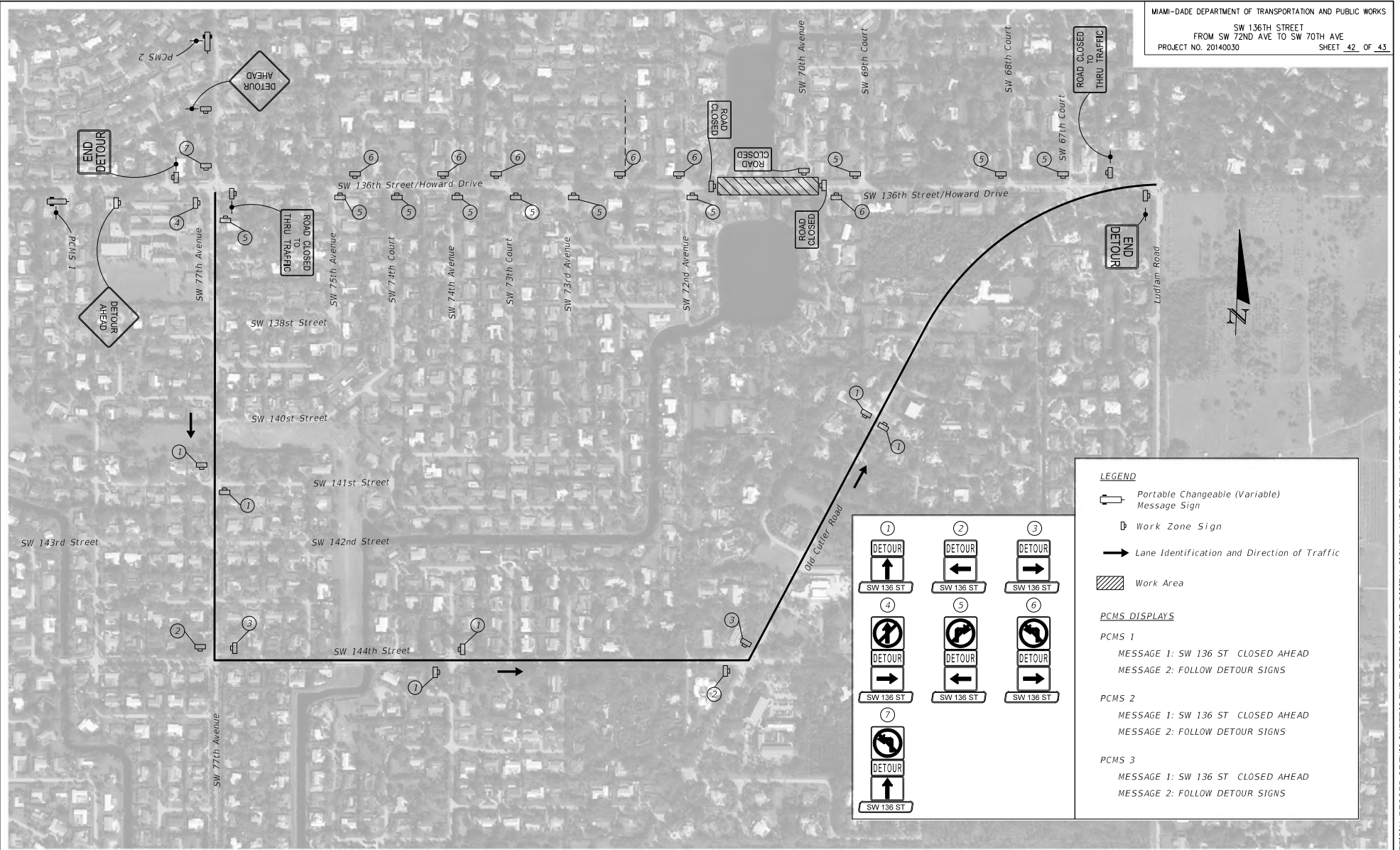
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	R.M.G.	2-20-20		R.L.L.	2-20-20
CHECKED BY			CHECKED BY		
	R.A.Z.	2-20-20		R.M.G.	2-20-20

SUPERVISED BY: RAY T. SHAFER, P.E.

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. CANN, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

MISCELLANEOUS DETAILS 2



LEGEND

- Portable Changeable (Variable) Message Sign
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Work Area

PCMS DISPLAYS

PCMS 1
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

PCMS 2
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

PCMS 3
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

1
 DETOUR
 ↑
 SW 136 ST

2
 DETOUR
 ←
 SW 136 ST

3
 DETOUR
 →
 SW 136 ST

4
 NO LEFT TURN
 DETOUR
 →
 SW 136 ST

5
 NO RIGHT TURN
 DETOUR
 ←
 SW 136 ST

6
 NO U-TURN
 DETOUR
 →
 SW 136 ST

7
 NO LEFT TURN
 DETOUR
 ↑
 SW 136 ST

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD
Gannett Fleming
 800 NW 42ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
AS			AS		
CHECKED BY	AU		CHECKED BY	AU	

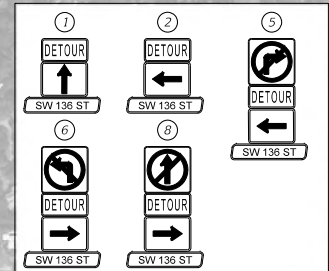
SUPERVISED BY: NAJID GONZALEZ, PE

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

TEMPORARY TRAFFIC CONTROL PLAN

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

MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 SW 136TH STREET
 FROM SW 72ND AVE TO SW 70TH AVE
 PROJECT NO. 20140030 SHEET 42A OF 43



LEGEND

- Portable Changeable (Variable) Message Sign
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Work Area

PCMS DISPLAYS

PCMS 1
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

PCMS 2
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

PCMS 3
 MESSAGE 1: SW 136 ST CLOSED AHEAD
 MESSAGE 2: FOLLOW DETOUR SIGNS

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD
Gannett Fleming
 800 NW 82ND AVENUE, SUITE 400
 MIAMI, FLORIDA 33126
 17867 845-9540 FAX 17867 845-6802

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
AS			AS		
CHECKED BY	AU		CHECKED BY	AU	

SUPERVISED BY: NAJID GONZALEZ, PE

MIAMI-DADE COUNTY
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 STEPHEN P. COLE, CHIEF
 111 NW 1 ST
 MIAMI, FLORIDA 33128

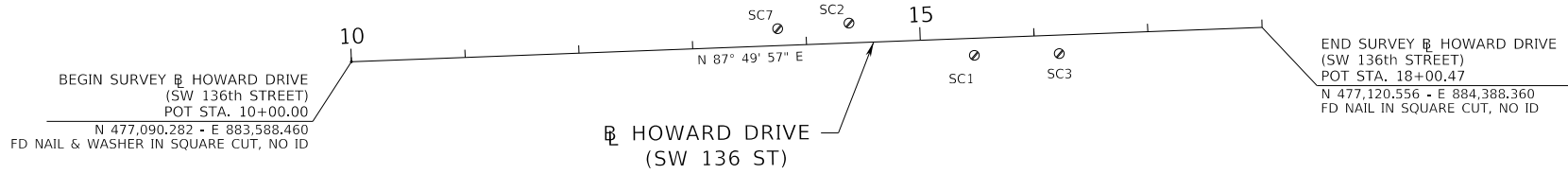
TEMPORARY TRAFFIC CONTROL PLAN

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

SPECIFIC PURPOSE SURVEY

HOWARD DRIVE / SW 136th STREET FROM STA. 10+00.00 TO STA. 18+00.47

NAVD88



PRIMARY NETWORK CONTROL

POINT NAME	(Y) NORTHING	(X) EASTING	SCALE FACTOR	LATITUDE	LONGITUDE	BASELINE STATION	OFFSET	(Z) ELEVATION	DESCRIPTION
SC1	477,095.924	884,135.604	1.00000077	25°38'40.34707"	80°18'28.81908"	15+46.97	15.05' RT.	8.82'	SET NAIL & WASHER IN ASPHALT, NO ID
SC2	477,124.226	884,025.488	1.00000072	25°38'40.63309"	80°18'30.02072"	14+38.00	17.39' LT.	9.81'	SET NAIL & WASHER IN CONCRETE, NO ID
SC3	477,097.488	884,210.198	1.00000081	25°38'40.35870"	80°18'28.00390"	16+21.55	16.31' RT.	6.81'	SET NAIL & WASHER IN ASPHALT, NO ID
SC7	477,119.336	883,962.857	1.00000068	25°38'40.58790"	80°18'30.70537"	13+75.23	14.87' LT.	7.90'	SET NAIL & WASHER IN ASPHALT, NO ID

SURVEYORS NOTES:

- BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA EAST ZONE, NORTH AMERICAN DATUM (NAD) OF 1983 (ADJUSTMENT OF 1990). A BEARING OF N 85°32'15" E HAS BEEN ESTABLISHED BETWEEN MONUMENTS SC7 & SC2
- VERTICAL DATUM : NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
- PROJECT UNITS : US FEET
- FIELD BOOK REFERENCES : MGV 896
- ELECTRONIC DATABASE : CAICE: *15593.ZIP*

LEGEND

- ⊕ : BASELINE
- N : NORTH
- E : EAST
- POT : POINT ON TANGENT
- RT. : RIGHT
- LT. : LEFT
- OFF. : OFFSET
- STA. : STATION
- ⊙ : PNC POINT
- FD : FOUND
- ID : IDENTIFICATION

LIMITS FROM: 300° WEST OF SW 70th AVENUE TO 50° EAST OF SW 70th AVENUE

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE PRIMARY NETWORK CONTROL OR BASELINE FOR THE PROJECT DEPICTED HEREON AND THAT SAID SURVEY WAS DONE UNDER MY RESPONSIBLE CHARGE AND MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5 J 17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS MAP CONSISTING OF SHEET CTL-1 IS A TRUE, ACCURATE AND COMPLETE DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON 11-02-2015

SURVEYOR : MANUEL G. VERA, JR. PLS NUMBER : 5291

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



NAME	DATE	NAME	DATE
DESIGNED BY: AS		DRAWN BY: AS	
CHECKED BY: AU		CHECKED BY: AU	

SUPERVISED BY: NAJID GONZALEZ, PE



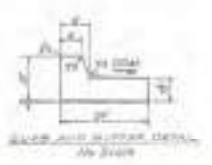
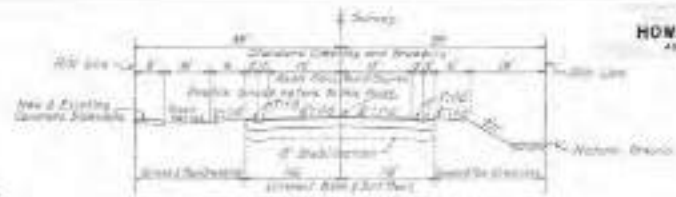
PROJECT NETWORK CONTROL

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

SUMMARY OF QUANTITIES			
No.	Item	Unit	Quantity
101-2	Concrete (Cast-in-place) Retention	cu yd	1.8
101-3	Reinforcing Bars	lb	241.8
101-4	Concrete (Cast-in-place) Approach	cu yd	333.8
101-5	Concrete (Cast-in-place) Slab	cu yd	2
101-6	Concrete (Cast-in-place) Retention (for 2)	cu yd	111.8
101-7	Concrete (Cast-in-place) Surface (for 2)	sq yd	100
101-8	Concrete (Cast-in-place) Surface (for 2)	sq yd	200
101-9	Concrete (Cast-in-place) Surface (for 2)	sq yd	2
101-10	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-11	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-12	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-13	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-14	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-15	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-16	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-17	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-18	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-19	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8
101-20	Concrete (Cast-in-place) Surface (for 2)	sq yd	1.8

Notes:

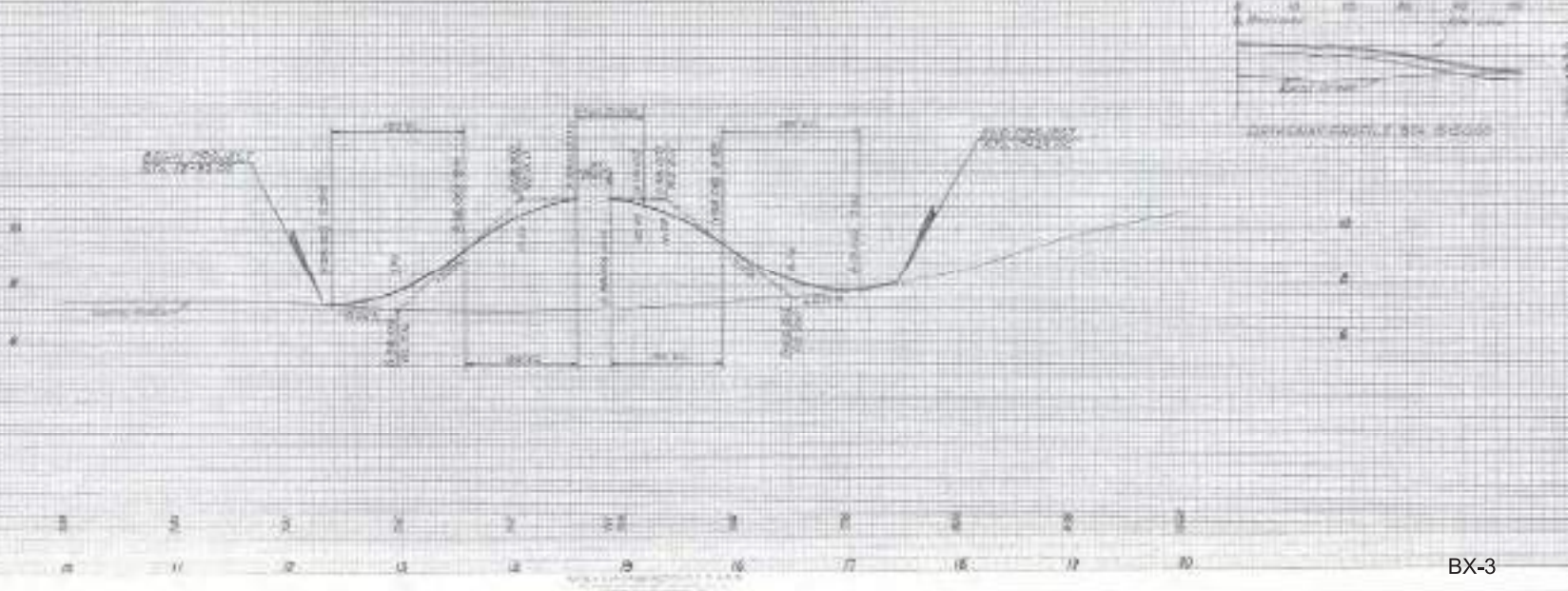
1. For General Notes see Plans and Specifications Sheet No. 2.
2. For Additional Detail Information see Sheet No. 311.
3. For Details of Approach Slabs see Sheet No. 3.
4. Surfaces shall consist of Type 2 Bituminous Concrete Surface Course comprising of 1 1/2" (38 mm) for the Bridge and 1" (25 mm) for the Approach.
5. For details of Concrete and Reinforcing Bars see Sheet No. 311.
6. Item No. 101-2 includes 100 S.F. for Additional Retention.
7. Item No. 101-3 includes 100 S.F. for Additional Retention.
8. Item No. 101-4 includes 100 S.F. for Additional Retention.
9. Item No. 101-5 includes 100 S.F. for Additional Retention.



Scale 1/4" = 1'-0"

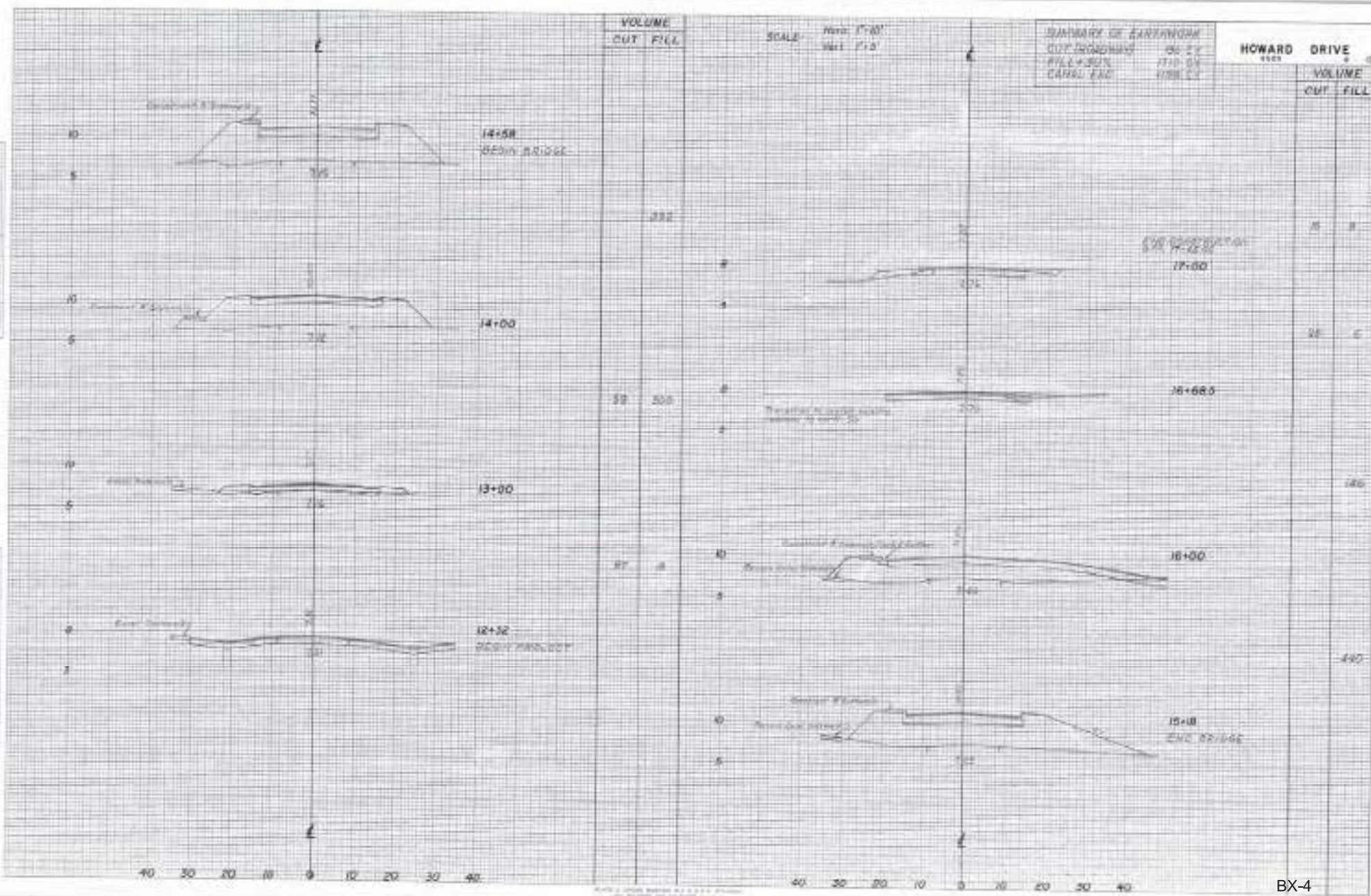
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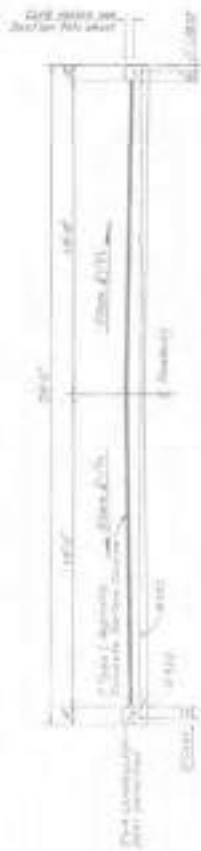
1/4" = 1'-0"



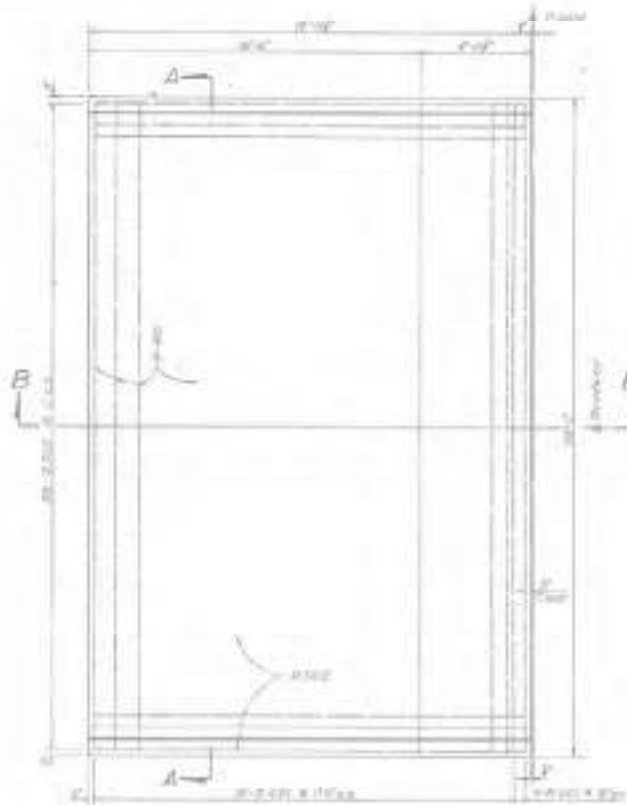
1. Scale
 2. Elevation
 3. Stationing
 4. Volume
 5. Notes

1. Scale
 2. Elevation
 3. Stationing
 4. Volume
 5. Notes





SECTION A-A
Scale 1/4" = 1'-0"



PLAN
Scale 1/4" = 1'-0"



SECTION B-B
Scale 1/4" = 1'-0"



END VIEW ADJOINING BRIDGE
Scale 1/4" = 1'-0"

BENDING DIAGRAM



BILL OF REINFORCING STEEL
FOR ONE APPROACH SLAB

Bar	No./Bar	Length	Bar	No./Bar	Length
100	100	100.00	100	100	100.00

ESTIMATED QUANTITIES
FOR ONE APPROACH SLAB

No.	Item	Unit	Quantity
100	Concrete	CY	100.00
101	Reinforcing Steel	Lb.	10000.00

- NOTES (Items otherwise noted):
- See General Notes on Plan and Elevation Sheet.
 - Set all vertical edges of concrete to 1/2" radius.
 - Concrete shall be Class "A".
 - Seal the Approach Slab on 2 sides of 25" roofing felt or better.
 - Set joint details between Approach Slab and Bridge see Figure Elevation Sheet.

DADE COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

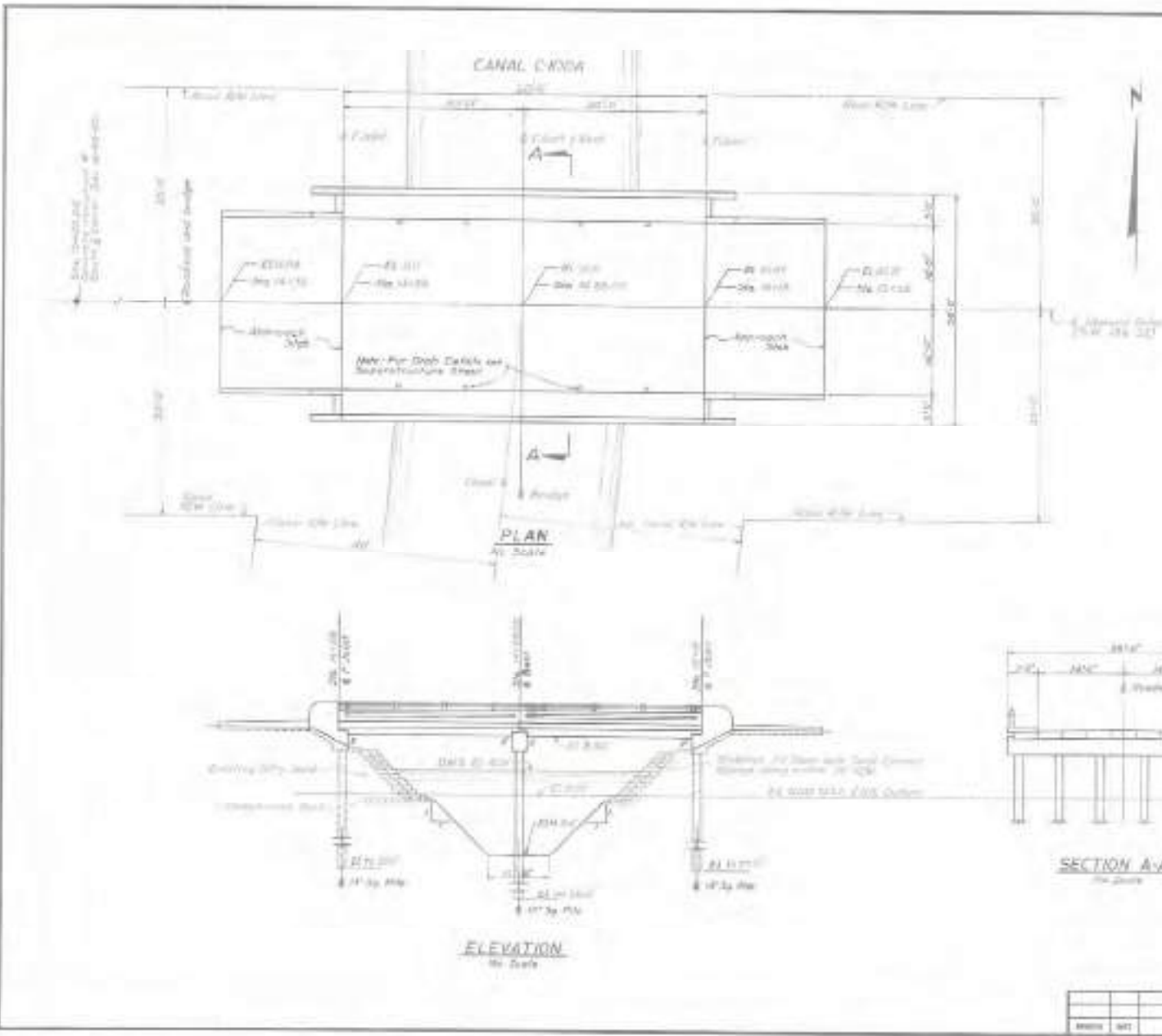
APPROACH SLAB

HOWARD DOWE BRIDGE
OVER
CANAL C-1004

NO.	DATE	DESCRIPTION	BY

BX-5

BX-5



ESTIMATED QUANTITIES			
No.	Item	Unit	Quantity
0010	Clear Excavation	CY	17.00
0020	Clear Excavation	CY	0.00
0117	Manufacturing steel	LB	12,000
0121	Manufacturing steel	LB	12,000
0122	Manufacturing steel	LB	12,000
0123	Manufacturing steel	LB	12,000
0124	Manufacturing steel	LB	12,000
0125	Manufacturing steel	LB	12,000
0126	Manufacturing steel	LB	12,000
0127	Manufacturing steel	LB	12,000
0128	Manufacturing steel	LB	12,000
0129	Manufacturing steel	LB	12,000
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0188	Manufacturing steel	LB	12,000
0189	Manufacturing steel	LB	12,000
0190	Manufacturing steel	LB	12,000
0191	Manufacturing steel	LB	12,000
0192	Manufacturing steel	LB	12,000
0193	Manufacturing steel	LB	12,000
0194	Manufacturing steel	LB	12,000
0195	Manufacturing steel	LB	12,000
0196	Manufacturing steel	LB	12,000
0197	Manufacturing steel	LB	12,000
0198	Manufacturing steel	LB	12,000
0199	Manufacturing steel	LB	12,000
0200	Manufacturing steel	LB	12,000

- NOTES: (Under attention notes)
- The bridge construction is in accordance with the plans and specifications.
 - The bridge design loading is A23.1-14-64.
 - All elevations are referred to C.M.S. & N.E. Datum.
 - Dimensions shown of steel are minimum.
 - Welds shall be in accordance with the specifications and shall be satisfactory for the construction.
 - In all parts of the construction, the steel number of the top of the section indicates the top of the steel. The steel No. is 40 & 42.
 - All construction shall be in accordance with the specifications and shall be satisfactory for the construction.
 - Concrete shall be in accordance with the specifications and shall be satisfactory for the construction.
 - In making drawings all dimensions are "As Shown".
 - See all dimensions and notes on the drawings.
 - All dimensions are in feet and inches.
 - The bridge shall be in accordance with the specifications and shall be satisfactory for the construction.
 - The bridge shall be in accordance with the specifications and shall be satisfactory for the construction.
 - The bridge shall be in accordance with the specifications and shall be satisfactory for the construction.
 - The bridge shall be in accordance with the specifications and shall be satisfactory for the construction.
 - The bridge shall be in accordance with the specifications and shall be satisfactory for the construction.

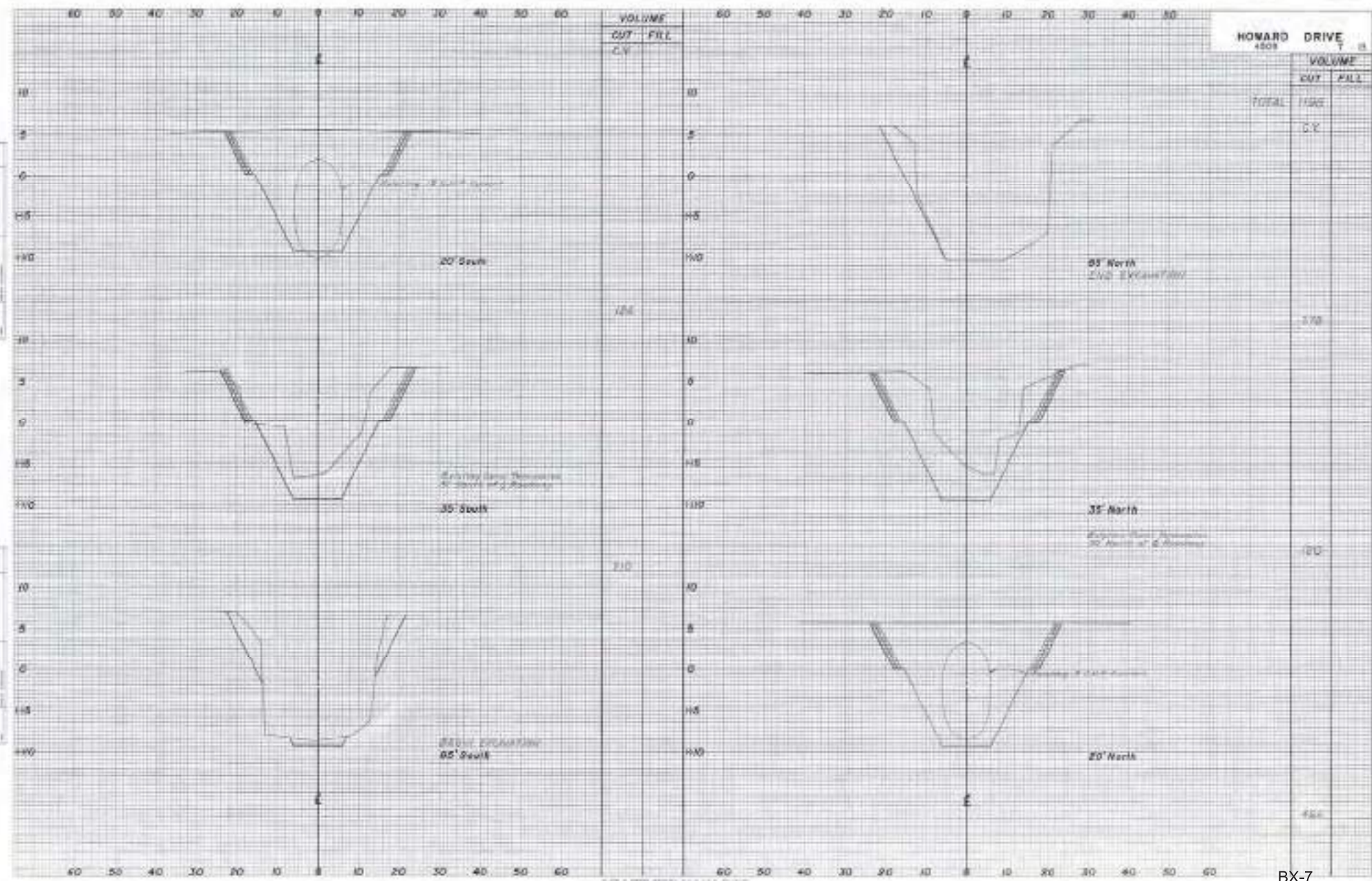
DRAWN - June 22, 1965
 BY - J. J. Smith
 CIVIL ENGINEER

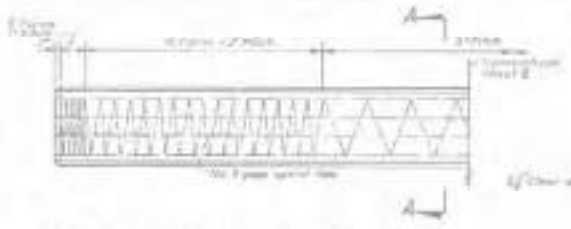
DADE COUNTY PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

PLAN & ELEVATION
 HOWARD DAVIS BRIDGE
 CANAL C-1004

DATE	NO.	DESCRIPTION	BY
June 22, 1965	1	AS SHOWN	J. J. Smith

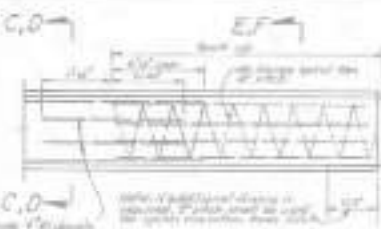
HOWARD DRIVE
4503



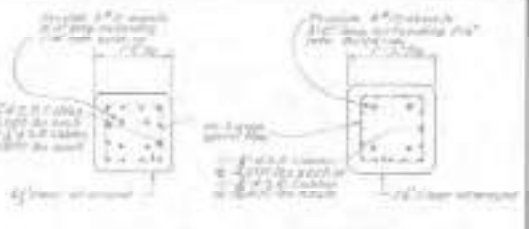


PRESTRESSED PILES 14' SQ
 Single pile or point pile length 42'
 Double pile or point pile length 42'

SECTION A-A

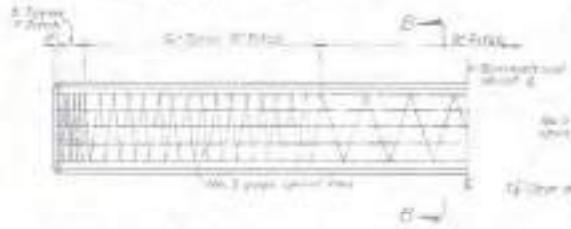


TYPICAL BUILD-UP



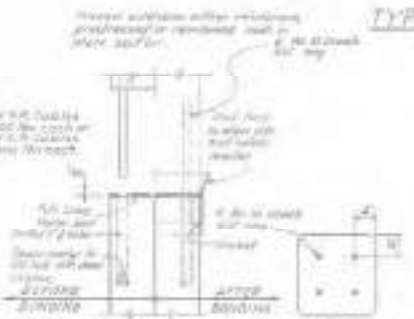
SECTION C-C

SECTION D-D



PRESTRESSED PILES 14' SQ
 Single pile or point pile length 42'
 Double pile or point pile length 42'

SECTION B-B

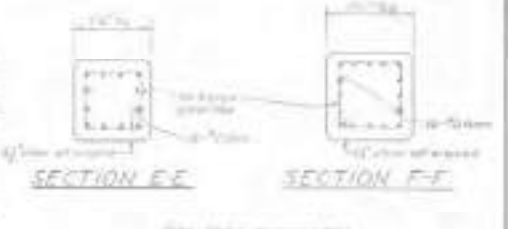


BONDING DETAIL 14' OR 14' PILE
ALTERNATE EPOXY BOND SPLICE



SINGLE

DOUBLE

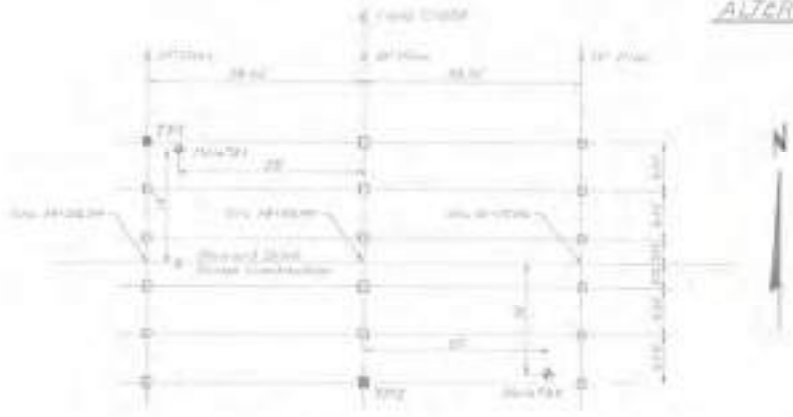


SECTION E-E

SECTION F-F

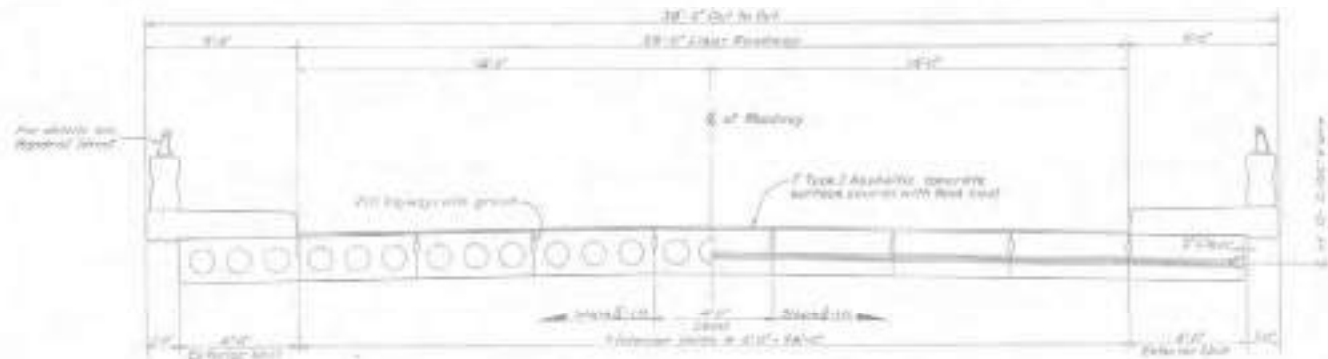
PICK-UP POINTS

1. Pile cap shall be cast in place.
2. Pile shaft shall be cast in place.
3. Pile cap shall be cast in place.
4. Pile shaft shall be cast in place.
5. Pile cap shall be cast in place.
6. Pile shaft shall be cast in place.
7. Pile cap shall be cast in place.
8. Pile shaft shall be cast in place.
9. Pile cap shall be cast in place.
10. Pile shaft shall be cast in place.
11. Pile cap shall be cast in place.
12. Pile shaft shall be cast in place.
13. Pile cap shall be cast in place.
14. Pile shaft shall be cast in place.
15. Pile cap shall be cast in place.
16. Pile shaft shall be cast in place.
17. Pile cap shall be cast in place.
18. Pile shaft shall be cast in place.
19. Pile cap shall be cast in place.
20. Pile shaft shall be cast in place.



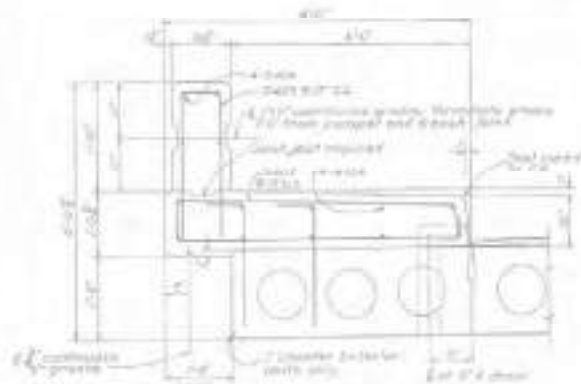
PILE LOCATION PLAN

DADE COUNTY PUBLIC WORKS DEPARTMENT	
ENGINEERING DIVISION	
DATE	10/1/00
BY	WJL
PROJECT	PAVING PLAN & DETAILS
NO.	1000000000
DATE	10/1/00
BY	WJL
PROJECT	HOWARD DRIVE BRIDGE
NO.	1000000000
DATE	10/1/00
BY	WJL
PROJECT	CANAL C-1004

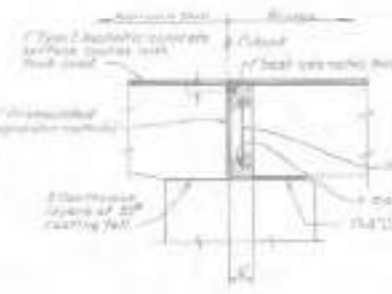


TYPICAL HALF SECTION
No Scale

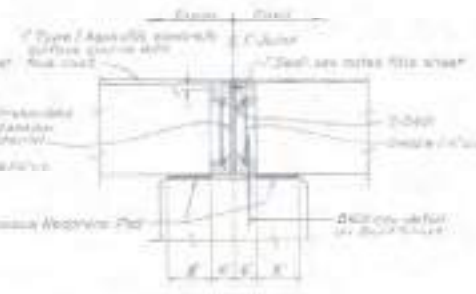
HALF SECTION THRU DIAPHRAGMS
No Scale



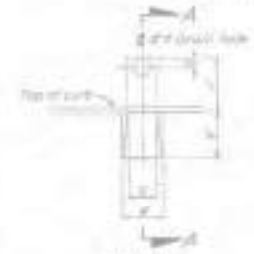
SECTION THRU SIDEWALK
No Scale



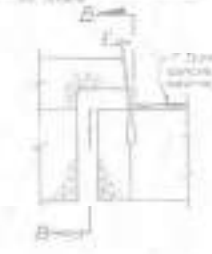
SECTION THRU JOINT
AT END BENT
No Scale



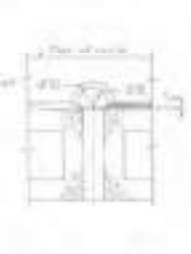
SECTION THRU JOINT
AT INTERMEDIATE BENT
No Scale



PLAN
DRAW DETAIL
No Scale



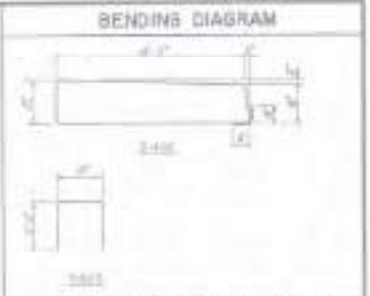
SECTION A-A



SECTION B-B

CONSTRUCTION SPECIFICATIONS

1. After pre cast forms have properly cured, the precast concrete shall be set in place in its approved bedding and
2. Lateral post-tensioning cables or bars shall be properly tensioned.
3. Top of slab body if required over that of slab centers.
4. Joints between slabs shall be 1/2" deep.
5. Slabs shall be finished.
6. Final finish of 18000 psi shall be applied to bottom post-tensioning cables and rebar after grouting. Slabs shall be finished.
7. Slabs shall be finished after final curing.
8. Slabs shall be finished after final curing.
9. Slabs shall be finished after final curing.
10. Slabs shall be finished after final curing.
11. Slabs shall be finished after final curing.
12. Slabs shall be finished after final curing.



BILL OF REINFORCING STEEL FOR ONE SPAN

Bar	No. Bars	Length	Vol.	No. Bars	Length
20#	12	180'	1.80	20#	12
20#	12	180'	1.80	20#	12
20#	12	180'	1.80	20#	12
Total					
1.80					

ESTIMATED QUANTITIES FOR ONE SPAN

No.	Item	Unit	Quantity
100	Concrete	cu yd	100.00
200	Reinforcing Steel	lbs	100.00
300	Asphalt	sq yd	100.00

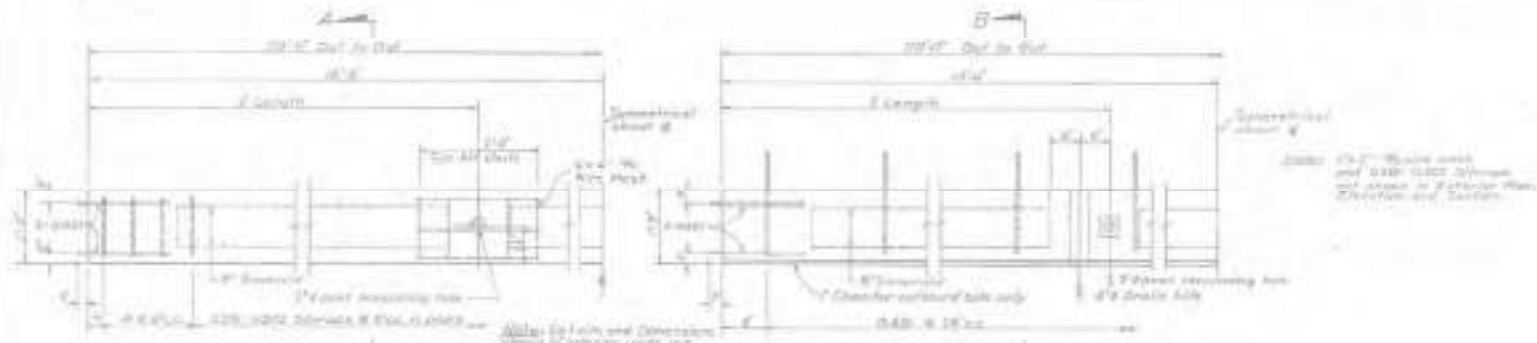
Notes: (1) All dimensions are in feet and inches unless otherwise noted.
(2) All dimensions are in feet and inches unless otherwise noted.
(3) All dimensions are in feet and inches unless otherwise noted.
(4) All dimensions are in feet and inches unless otherwise noted.

DADE COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

SUPERSTRUCTURE

HOWARD DRIVE BRIDGE
CANAL C-100A

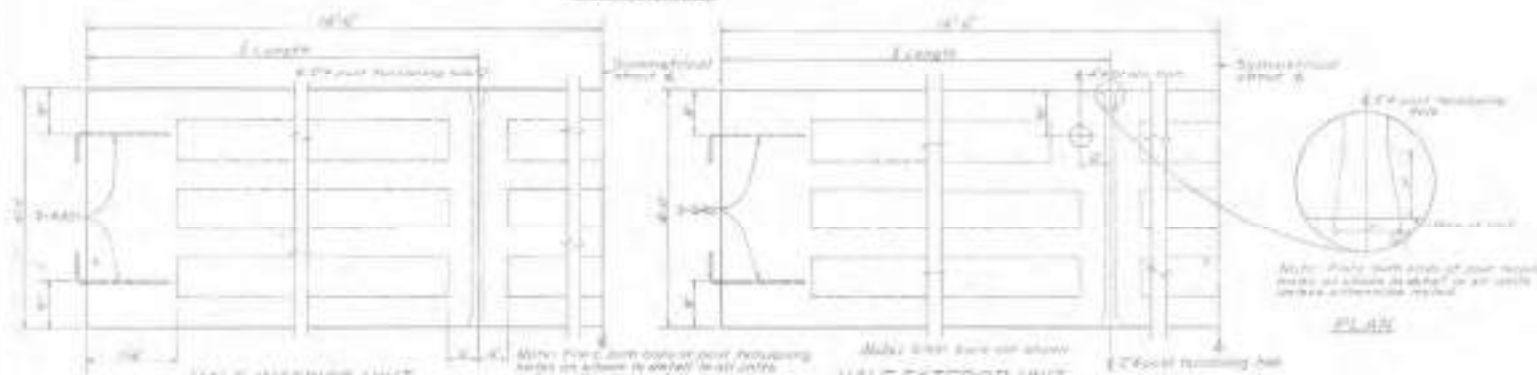
DATE	BY	CHKD	APP'D
10/13/13	JAE	JAE	JAE



HALF INTERIOR UNIT
No Scale

HALF EXTERIOR UNIT
No Scale

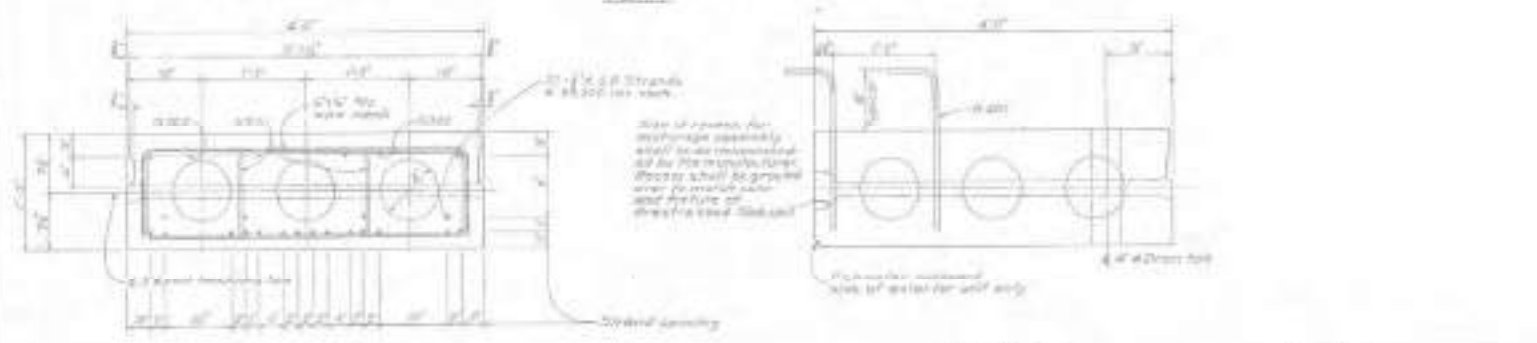
ELEVATION



HALF INTERIOR UNIT
No Scale

HALF EXTERIOR UNIT
No Scale

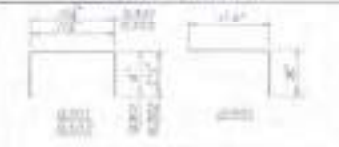
PLAN



SECTION A-A
No Scale

SECTION B-B
No Scale

BENDING DIAGRAM



BILL OF REINFORCING STEEL FOR ONE PRESTRESSED SLAB UNIT

BAR	Length	NO. REQUIRED	
		Inner	Outer
1/2" x 1/2"	17.0'	20	20
1/2" x 1/2"	21.0'	20	20
1/2" x 1/2"	2.0'	2	2

- Notes: (Always observe notes)
1. The Contractor shall use the steel reinforcement shown on this drawing.
 2. The use of prestressing steel shall be in accordance with the provisions of the Specification for Prestressing Steel, AASHTO, 1961, and the provisions of the Specification for Prestressing Steel, AASHTO, 1961, and the provisions of the Specification for Prestressing Steel, AASHTO, 1961.
 3. The Contractor shall use the steel reinforcement shown on this drawing.
 4. The Contractor shall use the steel reinforcement shown on this drawing.
 5. The Contractor shall use the steel reinforcement shown on this drawing.
 6. The Contractor shall use the steel reinforcement shown on this drawing.
 7. The Contractor shall use the steel reinforcement shown on this drawing.
 8. The Contractor shall use the steel reinforcement shown on this drawing.
 9. The Contractor shall use the steel reinforcement shown on this drawing.
 10. The Contractor shall use the steel reinforcement shown on this drawing.

DADE COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

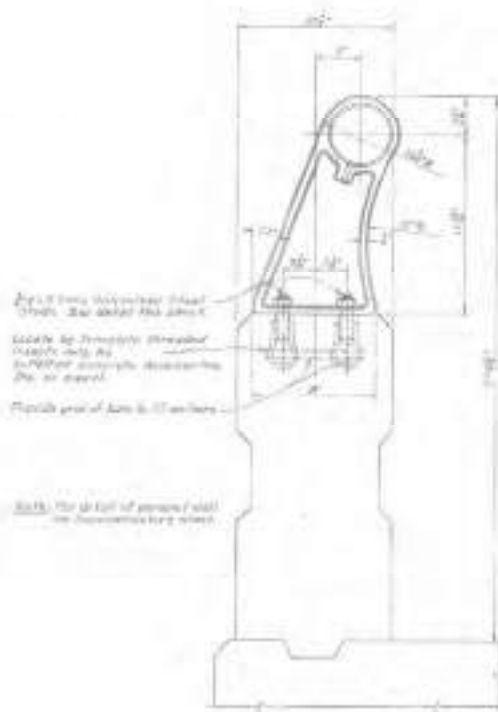
PROJECT: PRESTRESSED SLAB UNITS

LOCATION: MICHAEL DUNE BRIDGE
CANAL C-100M

DATE: Jan 1963, No. 4509, 11 of 18

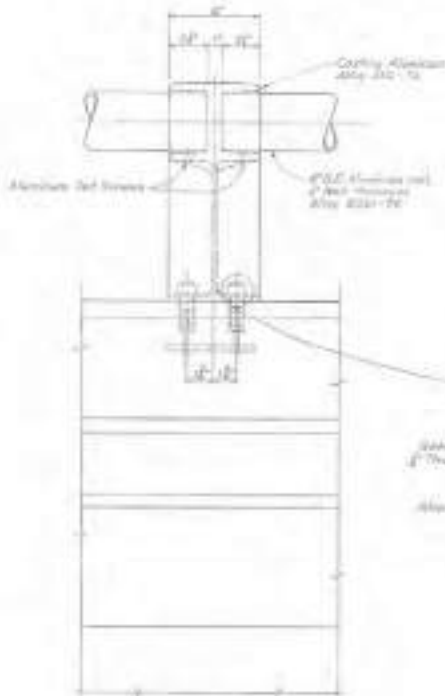


ELEVATION
No. 2000

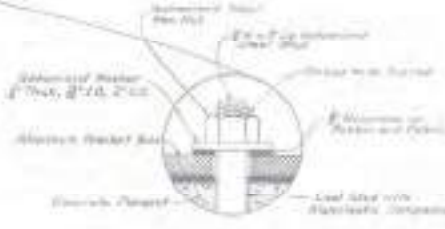
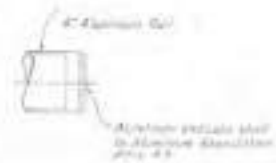


2 1/2\"/>

HANDRAIL DETAIL
No. 2000



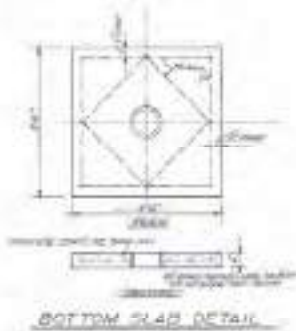
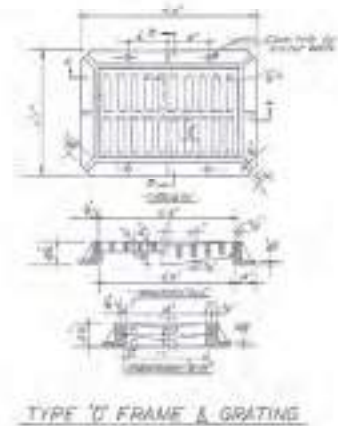
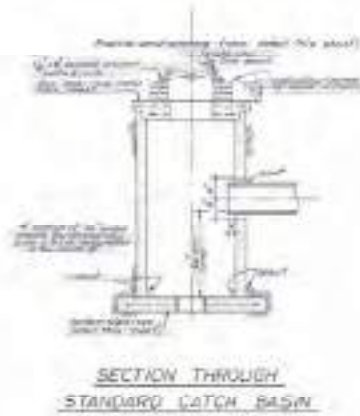
END CAP DETAIL
No. 2000



- Notes (Understandings):**
1. See note to the effect of 100% shop drawings to be submitted to the Engineer for approval.
 2. All steel to be painted with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 3. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 4. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 5. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 6. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 7. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 8. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 9. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.
 10. All steel to be galvanized with primer and 2 coats of zinc rich paint with commercial aluminum paint.

DADE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
DATE 12/15/2015	HANDRAIL DETAILS
BY JL	HOWARD GIBBE BRIDGE OVER CANAL C-100A

NO.	DATE	DESCRIPTION	BY



NOTE:
 1. Maximum grate weight shall be 25 lbs.
 2. Minimum frame weight shall be 25 lbs.

DADE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
DATE 02/19/08	CATCH BASIN DETAILS
PROJECT K-3	HOWARD DRIVE BRIDGE OVER CANAL C-100A
DESIGNER J. J. J.	DATE 02/19/08