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CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

Memorandum

Date: February 21, 2024

To: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

Agenda Item No. 5(A)

From: Lourdes M. Gomez, Director
Department of Regulatory and Economic Resources

Subject: Class I Permit Application by Miami-Dade County, through its Department of Transportation and Public Works

Resolution No. R-139-24

Recommendation

I have reviewed the attached application for a Class I permit by Miami-Dade County, through its Department of Transportation and Public Works and based upon the applicable evaluation factors set forth in Section 24-48.3 of the Code of Miami-Dade County (Code), I recommend that the Board of County Commissioners (Board) approve the issuance of a Class I permit for the reasons set forth below.

Pursuant to Ordinance No. 16-73, this quasi-judicial matter may be submitted directly for placement on the Board's meeting agenda by the Director of the Department of Regulatory and Economic Resources.

Scope

The project site is located at Northeast 10th Avenue between Northeast 83rd Street and Northeast 84th Street over the Ademar Canal, Miami, Miami-Dade County, Florida, in Commission District 3, which is represented by Commissioner Keon Hardemon.

Delegation of Authority

This item has no delegation of authority. Upon approval of this item, Section 24-48.2(C)(2) of the Code authorizes the Department to issue the permit, provided that other Code requirements are satisfied, such as submittal of final plans and bonds, and to require additional conditions, limitations, and restrictions if consistent with this Board's approval.

Fiscal Impact/Funding Source

This resolution is a regulatory approval and does not have a fiscal impact.

Track Record/Monitor

The Coastal Resources Section Manager, Rockell Alhale, in the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM), would be responsible for monitoring the proposed permit.

Background

The subject Class I permit application requests authorization for the non-maintenance dredging and filling of tidal waters in association with the replacement of the Northeast 10th Avenue bridge over Ademar Canal within the City of Miami, Miami-Dade County, Florida. The proposed project is required to be heard and decided upon by the Board at a public hearing because the filling and non-maintenance dredging of tidal waters are specifically referenced in Section 24-48.2 of the Code as work that shall be processed as a standard form application.

Miami-Dade County, through its Department of Transportation and Public Works, is proposing to replace an existing fixed bridge that crosses over Ademar Canal. The existing bridge would be replaced with a single span, two lane bridge, which would be slightly widened to provide for pedestrian sidewalks. In association with the bridge improvements, the County is proposing to maintenance and non-maintenance dredge accumulated sediment and limerock within the project footprint to a depth of -5.0 feet NGVD. Upon completion of the dredging, the County is proposing to place approximately 6,534 square feet of bedding stone and riprap along the canal bottom and banks to stabilize the shoreline and address future sedimentation and scouring. Furthermore, the expanded bridge footprint would result in the minimal trimming of approximately 331 square feet of mangrove canopy growing adjacent to the existing bridge. Note that the replacement of the bridge, maintenance dredging, and mangrove trimming are types of work identified by the Code as work that can be processed administratively and are only coming before the Board as the aforementioned work is included in the subject application.

Vessels do not currently traverse underneath the bridge and the project would not impact the structures of the adjacent property owners within the bridge right-of-way. Therefore, the proposed bridge is not reasonably anticipated to create an impediment to potential navigation or access along the canal.

According to Section 24-48.3(2) of the Code, dredging and filling work proposed in a Class I permit application shall comply with at least one of the criteria listed in that section of the Code. The proposed work would result in the minimal amount of dredging and filling of tidal waters necessary to replace the Northeast 10th Avenue bridge, specifically to obtain the appropriate elevations needed for the placement of scour protection. The placement of bedding stone and riprap along the substrate underneath and abutting the bridge would help stabilize the canal banks and protect against scouring. As the work is a physical modification necessary to protect public or private property, the proposed project complies with the requirements in Section 24-48.3(2)(f) of the Code, which applies to dredging and filling work proposed in a Class I permit application. The project has been designed in accordance with all relevant Miami-Dade County coastal construction criteria and is consistent with all other Miami-Dade County coastal protection provisions.

The proposed project has been evaluated for consistency with the Miami-Dade County Manatee Protection Plan. The project is located within an area designated as essential habitat for the Florida manatee. However, the proposed project does not involve the mooring of vessels and is intended to improve water flow through the canal. The Class I permit would require that all standard construction permit conditions regarding manatee protection be followed during all in-water operations.

Pursuant to Section 24-48.4 of the Code, potential adverse environmental impacts and cumulative adverse environmental impacts for a proposed project must be avoided and minimized. The submerged bottom at the site consists of limerock overlaid by accumulated sediment and is not providing significant benthic habitat; therefore, impacts to benthic resources as a result of the proposed work is not reasonably expected. In addition, the proposed work is not reasonably expected to result in cumulative environmental impacts to water quality and the work is likely to improve water quality through the removal of accumulated sediment, in addition to providing scour protection. Any temporary water quality impacts would be minimized through the implementation of proper turbidity controls throughout construction operations to ensure that State and County water quality standards are

met. Section 24-48.4 of the Code also requires mitigation for permittable projects that otherwise result in unavoidable adverse environmental impacts. The mitigation required for the temporary water quality impacts associated with the non-maintenance dredging and filling of tidal waters would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund. In addition, the project proposes approximately 331 square feet of mangrove trimming, the minimum necessary for the replacement of the bridge. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the shoreline. Mitigation associated with the removal of mangrove canopy would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund.

Please find attached a DERM Project Report which sets forth the reasons the proposed project is recommended for approval by DERM pursuant to the applicable evaluation factors and criteria as set forth in Section 24-48.3 of the Code. The conditions, limitations, and restrictions set forth in the Project Report attached hereto are incorporated herein by references hereto.

Attachments

Attachment A:	Class I Permit Application
Attachment B:	Owner/Agent Letter, Engineer Letter and Project Sketches
Attachment C:	Names and Addresses of Owners of All Riparian or Wetland Property within Three Hundred (300) Feet of the Proposed Work
Attachment D:	Zoning Memorandum
Attachment E:	DERM Project Report
Attachment F:	South Florida Water Management District (SFWMD) Permit

Attachment A

Class I Permit Application

MIAMI-DADE COUNTY

Class I Permit Application

FOR DEPARTMENTAL USE ONLY	
Date Received:	**Application Number:**
(Updated 09/09)	**Application Fee:**

Application must be filled out in its entirety. Please indicate N/A for non-applicable fields.

1. Applicant Information:

Name: **Eulois Cleckley**

Address: 701 NW 1st Court, 17th Floor

Miami, Florida Zip Code: 33136

Phone #: 786-469-5559 Fax#:

Email: Eulois.Cleckley@miamidade.gov

*** This should be the applicant's information for contact purposes.**

2. Applicant's Authorized Permit Agent:

Agent is allowed to process the application, furnish supplemental information relating to the application and bind the applicant to all requirements of the application.

Name: George Burke

Address: 901 Ponce De Leon Blvd

Miami, Fl Zip Code: 33134

Phone #: 786-282-5395 Fax #:

Email: George.Burke@stantec.com

3. Location where proposed activity exists or will occur (latitude and longitude are only necessary for properties without address or folio #):

Folio #(s): Latitude: 25.852495° Longitude: -80.176626°

Street Address: NE 10th Ave Bridge No. 874178 Section: 8 Township: 53S Range: 42E

In City or Town: Miami Near City or Town:

Name of waterway at location of the activity: Ademar Canal

4. Describe the proposed activity (check all that apply):

☐ Seawall	☐ Dock(s)	☐ Boatlift	☑ Dredging	☐ Mangrove Trimming
☐ New/Replacement Seawall	☐ Pier(s)	☐ Mooring Piles	☑ Maintenance	☐ Mangrove Removal
☐ Seawall Cap	☐ Viewing Platform	☐ Fender Piles	☑ New	
☐ Batter Piles		☐ Davits	☑ Filling	
☐ King Piles				
☐ Footer/Toe Wall				
☑ Riprap				

☑ Other: The project involves replacing the existing NE 10th Ave Bridge No. 874178

Estimated project cost = $ 898,297.70

Are you seeking an after-the-fact approval (ATF)? ☐Yes ☑No If "Yes", describe the ATF work:

5. Proposed Use (check all that apply):

- ☐ Single Family
- ☐ Multi-Family
- ☐ Private
- ☑ Public
- ☐ Commercial
- ☐ Industrial
- ☐ Utility

6. If the proposed work relates to the mooring of vessels provide the following information (please also indicate if the applicant does not have a vessel):

Proposed Vessel Type (s):

Vessel Make/Model (If known):

Draft (s)(range in inches.): Length (s)(range in feet.):

Total Number of Slips:

7. List all permits or certifications that have been applied for or obtained for the above referenced work:

Issuing Agency	Type of Approval	Identification Number	Application Date	Approval Date
SFWMD	General ERP	211129-32314	12-01-2021	Pending
USACE	Individual Permit	Application Pending	Pending	Pending

8. Contractor Information (If known):

Name: _____License # (County/State):_____

Address: _____Zip Code: _____

Phone #:_____ Fax #:_____ E-mail:_____

9. IMPORTANT NOTICE TO APPLICANTS: The written consent of the property owner is required for all applications to be considered complete. Your application WILL NOT BE PROCESSED unless the Applicant **and** Owner Consent portion of the application is completed below. You have the obligation to apprise the Department of any changes to information provided in this application.

Application is hereby made for a Miami-Dade County Class I permit to authorize the activities described herein. I agree to or affirm the following:

- I possess the authority to authorize the proposed activities at the subject property, and
- I am familiar with the information, data and plans contained in this application, and
- To the best of my knowledge and belief, the information, data and plans submitted are true, complete and accurate, and
- I will provide any additional information, evidence or data necessary to provide reasonable assurance that the proposed project will comply with the applicable State and County water quality standards both during construction and after the project is completed, and
- I am authorizing the permit agent listed in Section 2 of this application to process the application, furnish supplemental information relating to this application and bind the applicant to all requirements of this application, and
- I agree to provide access and allow entry to the project site to inspectors and authorized representatives of Miami-Dade County for the purpose of making the preliminary analyses of the site and to monitor permitted activities and adherence to all permit conditions.

A. IF APPLICANT IS AN INDIVIDUAL

_____	_____	_____
Signature of Applicant	Print Applicant's Name	Date

B. IF APPLICANT IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON
(Examples: Corporation, Partnership, Trust, LLC, LLP, etc.)

Miami-Dade County	Municipality	Florida
Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. *

_____	Eulois Cleckley	DTPW Director	12/22/2021
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

C. IF APPLICANT IS A JOINT VENTURE Each party must sign below(If more than two members, list on attached page)

_____	_____	_____
Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation
_____	_____	_____
Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. *

_____	_____	_____	_____
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
George Burke	George Burke	Senior Environmental Scientist	3-5-2021
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

10. WRITTEN CONSENT OF THE PROPERTY OWNER OF THE AREA OF THE PROPOSED WORK

I/We are the fee simple owner(s) of the real property located at 10th Ave Bridge No. 874178 Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. _____. I am aware and familiar with the contents of this application for a Miami-Dade County Class I Permit to perform the work on or adjacent to the subject property, as described in Section 4 of this application. I possess the riparian rights to the area of the proposed work (if applicable) and hereby consent to the work identified in this Class I Permit application.

A. IF THE OWNER(S) IS AN INDIVIDUAL

Signature of Owner	Print Owner's Name	Date
Signature of Owner	Print Owner's Name	Date

B. IF THE OWNER IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON

(Examples: Corporation, Partnership, Joint Venture, Trust, LLC, LLP, etc.)

Miami-Dade County Department of Transportation and Public Works	Municipality	Florida
Print Name of Owner (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation

701 NW 1st court, Miami, Fl, 33136

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Owner, to bind the Owner, and if so required to authorize the issuance of a bond on behalf of the Owner. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. ***

Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
	Eulois Cleckley	DTPW Director	12/22/2021
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

Please Review Above

Appropriate signature(s) must be included in:

Box 9: either A, B **or** C

AND

Box 10: either A **or** B

Type text here

10. WRITTEN CONSENT OF THE PROPERTY OWNER OF THE AREA OF THE PROPOSED WORK

I/We are the fee simple owner(s) of the real property located at Ademar Canal Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. _____. I am aware and familiar with the contents of this application for a Miami-Dade County Class I Permit to perform the work on or adjacent to the subject property, as described in Section 4 of this application. I possess the riparian rights to the area of the proposed work (if applicable) and hereby consent to the work identified in this Class I Permit application.

A. IF THE OWNER(S) IS AN INDIVIDUAL

Signature of Owner	Print Owner's Name	Date
Signature of Owner	Print Owner's Name	Date

B. IF THE OWNER IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON

(Examples: Corporation, Partnership, Joint Venture, Trust, LLC, LLP, etc.)

Print Name of Owner (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation
City of Miami	Municipal	Florida

444 SW 2 Avenue, Miami, FL 33130
Address of Owner

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Owner, to bind the Owner, and if so required to authorize the issuance of a bond on behalf of the Owner. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. ***

Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
	Juvenal Santana, P.E., C.F.M.	Director, Public Works	05/16/22
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

Please Review Above

Appropriate signature(s) must be included in:

Box 9: either A, B **or** C

AND

Box 10: either A **or** B

Attachment B

Owner/Agent Letter, Engineer Letter, and Project Sketches

PERMIT APPLICANT / AUTHORIZED AGENT STATEMENT

Date:___May 12, 2022_____

Miami Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, FL 33136

Re: Class I Standard Form Permit Application Number CLI-2022-0092

By the attached Class I Standard Form permit application with supporting documents, I, Adriana Cabrera, am the permit agent and hereby request permission to perform the work associated with Class I Permit Application CLI-2022-0092. I understand that a Miami-Dade County Class I Standard Form Permit is required to perform this work.

If approval is granted for the proposed work by the Board of County Commissioners, complete and detailed plans and calculations of the proposed work shall be prepared by an engineer licensed in the State of Florida in accordance with the minimum requirements of Chapter 24 of the Code of Miami-Dade County, Florida. Said plans and calculations shall be subject to the review and approval of the Department. The permit applicant will secure the services of an engineer licensed in the State of Florida to conduct inspections throughout the construction period, and said engineer shall prepare all required drawings of record. In the event that the proposed work which is the subject of this Class I Permit application involves the cutting or trimming of a mangrove tree(s), a detailed plan of the proposed cutting or trimming shall be prepared by a licensed landscape architect and submitted to the Department for review and approval, and the permit applicant will secure the services of a licensed landscape architect to supervise the trimming or cutting.

Respectfully submitted,



Adriana Cabrera

ENGINEER LETTER OF CERTIFICATION

Date: 5/12/2022

Miami-Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, Florida 33136

RE: Class I Permit Application Number CLI-2022-0092

Ladies and Gentlemen:

This letter will certify that I am an engineer licensed in the State of Florida, qualified by education and experience in the area of engineering design and inspection, and that to the best of my knowledge and belief, the proposed work does not violate any laws, rules, or regulations of the State of Florida or any provisions of the Code of Miami-Dade County which may be applicable; that diligence and recognized standard practices of the engineering profession have been exercised in the engineer's design of the proposed work; and in my opinion based upon my knowledge and belief, the following will not occur:

a. Harmful obstruction or undesirable alteration of the natural flow of the water within the area of the proposed work.

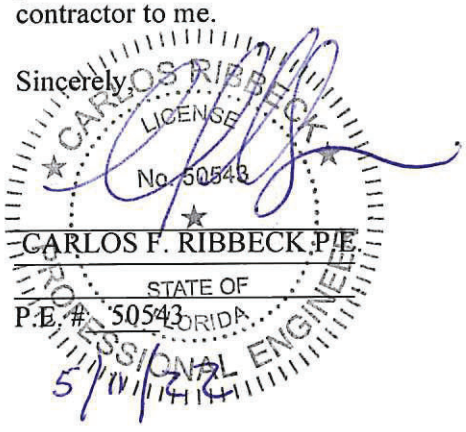
b. Harmful or increased erosion, shoaling of channels or stagnant areas of water. (Not applicable to class IV permits)

c. Material injury to adjacent property.

d. Adverse environmental impacts from changes in water quality or quantity. (Applicable to class IV permits only)

Further, I have been retained by the applicant to provide inspections throughout the construction period and to prepare a set of reproducible record prints of drawings showing changes made during the construction process based upon the marked-up prints, certified surveys, drawings, and other data furnished by the contractor to me.

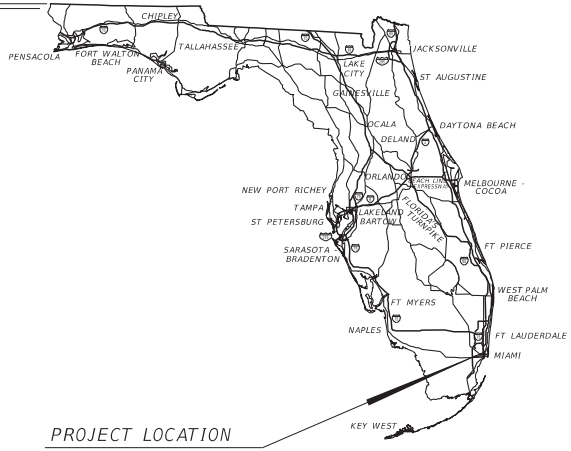
Sincerely,



CARLOS F. RIBBECK, P.E.
P.E. # 50543

MIAMI-DADE

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS



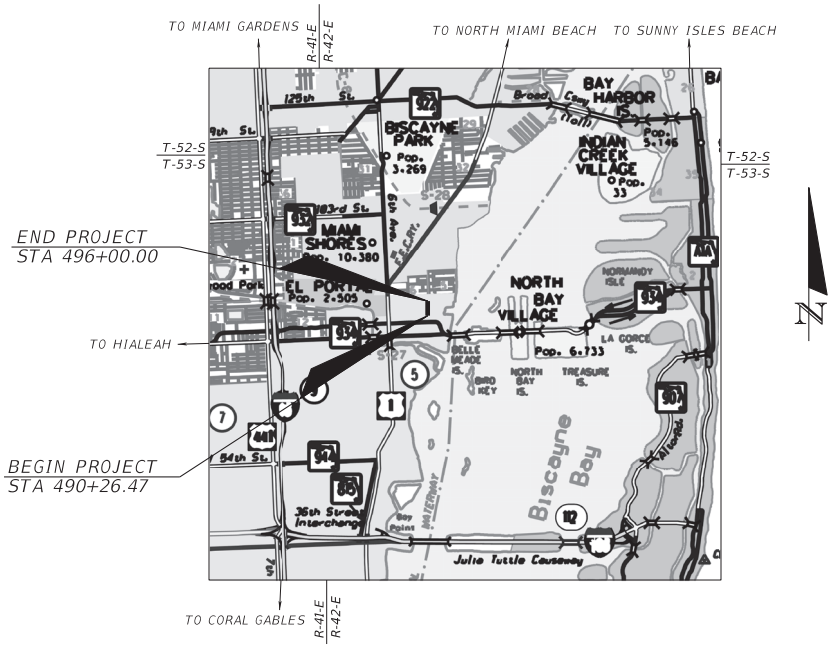
PROJECT LOCATION

https://goo.gl/maps/iLpAWRNRXi81vGbv6

PROJECT NO. EDP-MT-20190196

CITY OF MIAMI

NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET



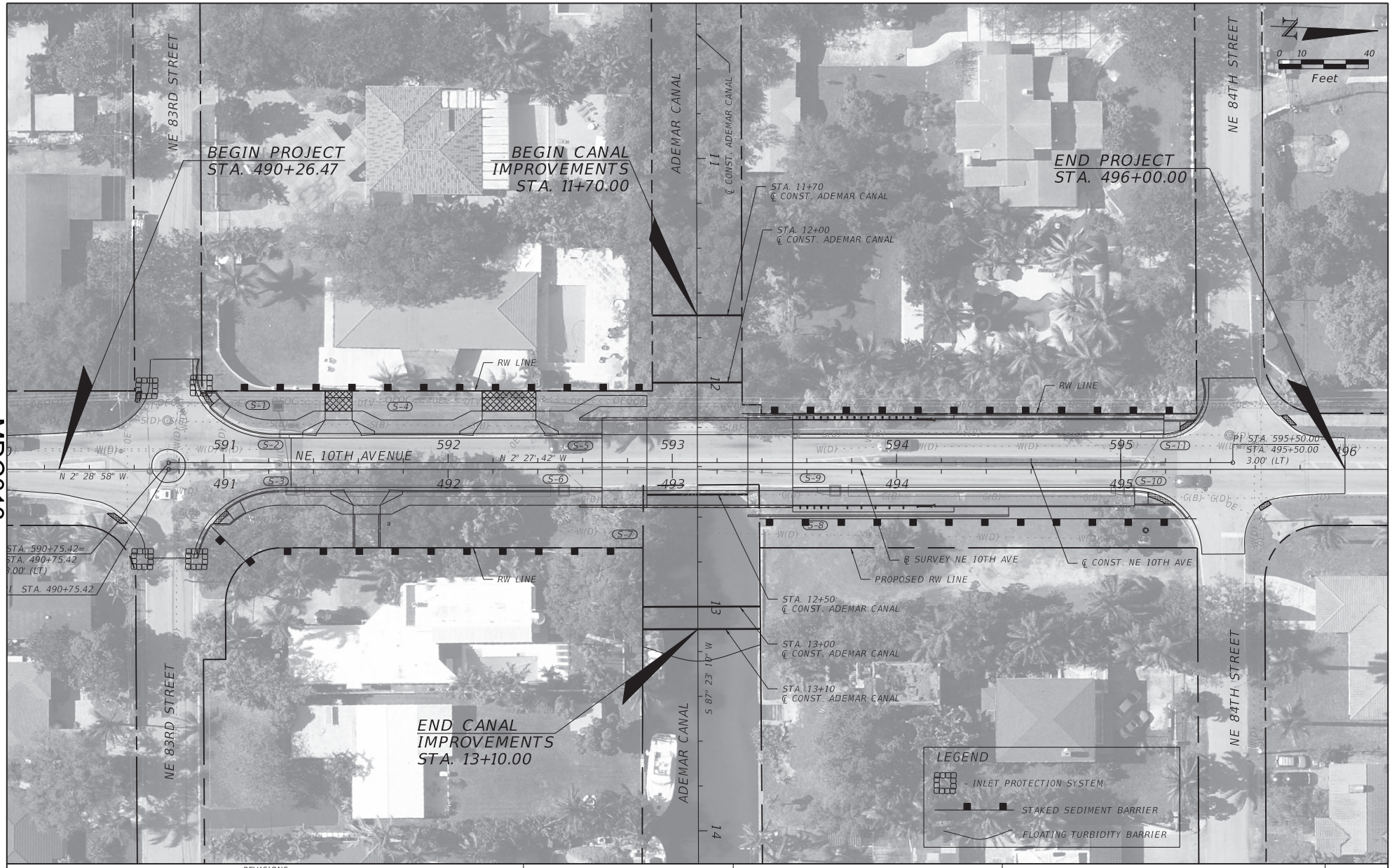
LOCATION MAP

DREDGE & FILL SKETCHES

MDC012

SHEET NO.
1

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MDC013

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ASA CONSULTANTS, INC.
8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

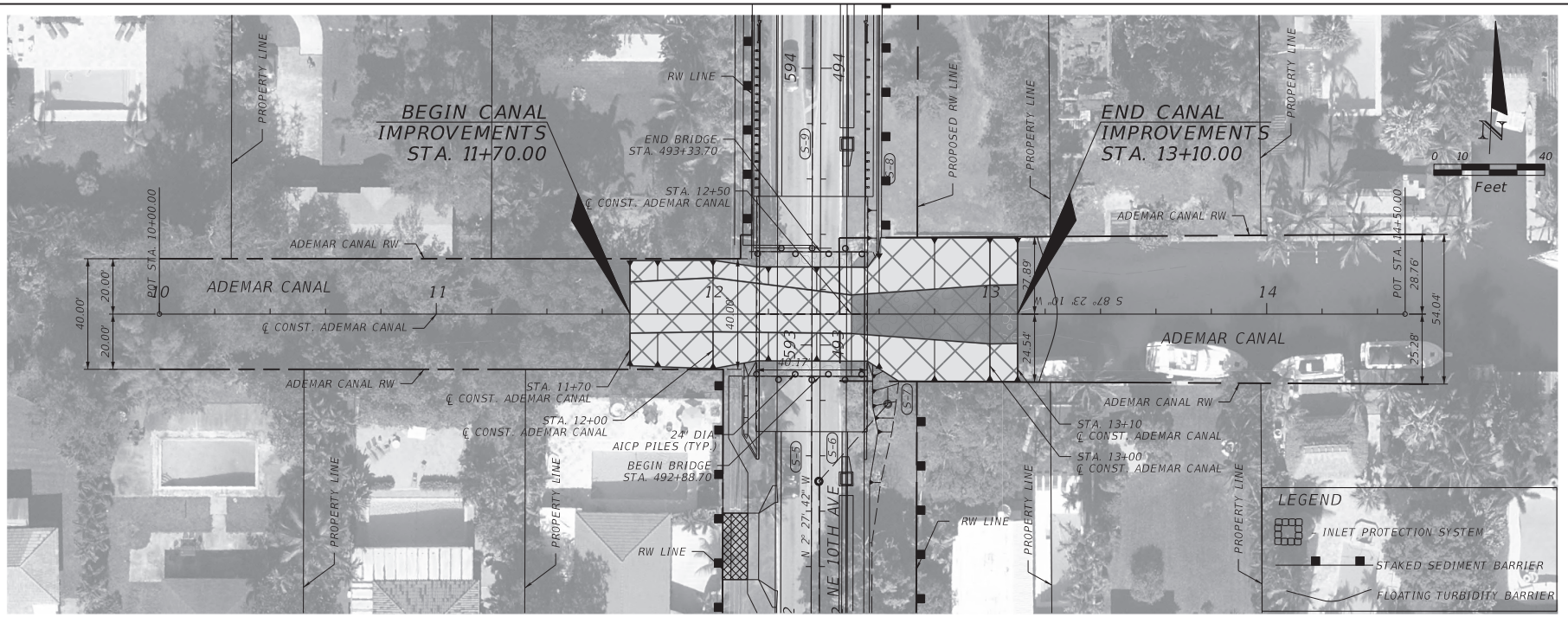
MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

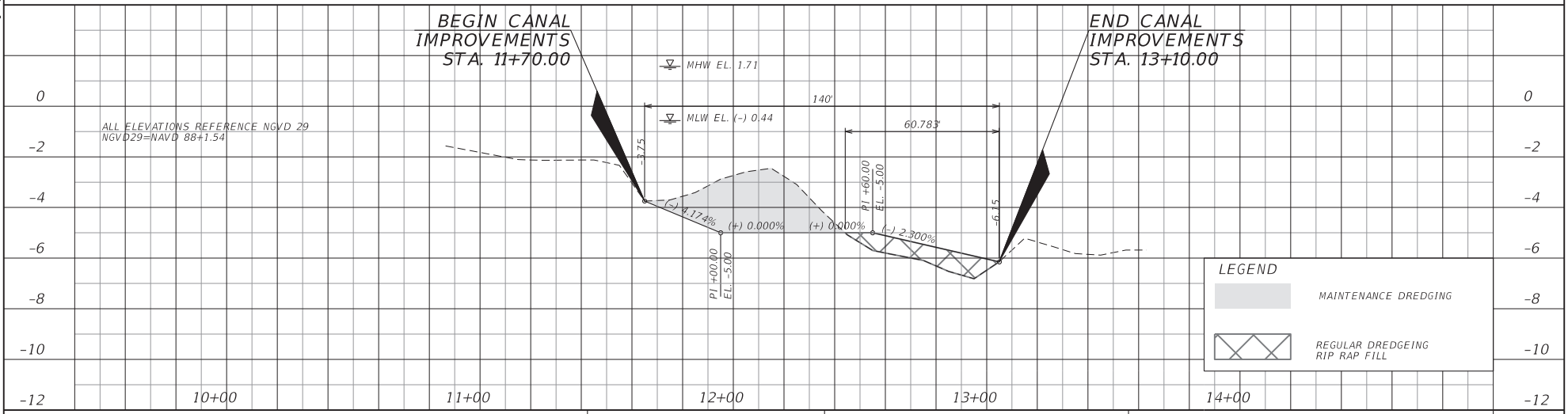
ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

OVERVIEW MAP

SHEET NO. 2

MDC014





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

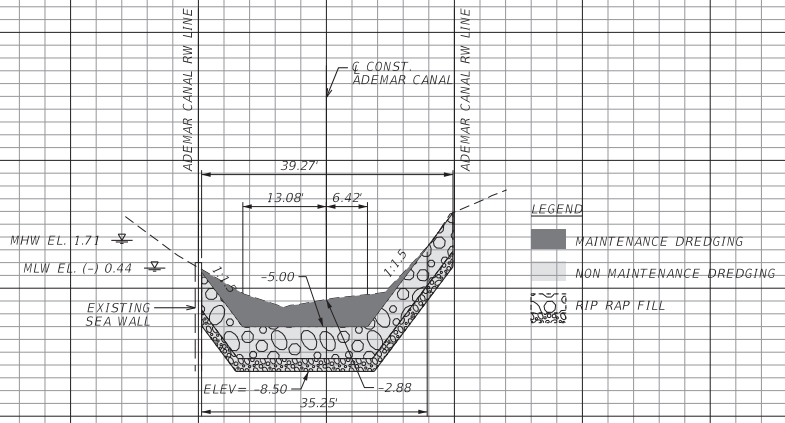
CANAL PLAN-PROFILES DREDGE & FILL SKETCHES

SHEET NO. 3

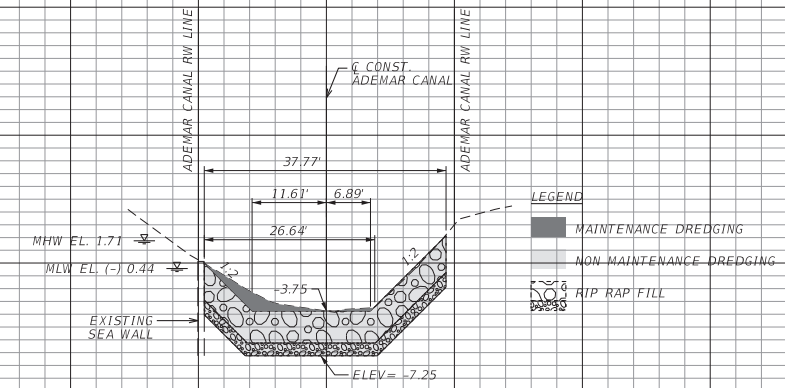
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MDC015

NOTE: FOR DREDGE AND FILL VALUES, REFER TO SHEET 6.



12+00.00



BEGIN CANAL IMPROVEMENTS 11+70.00

1" = 20' Horizontal
1" = 10' Vertical

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REVISIONS			
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8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

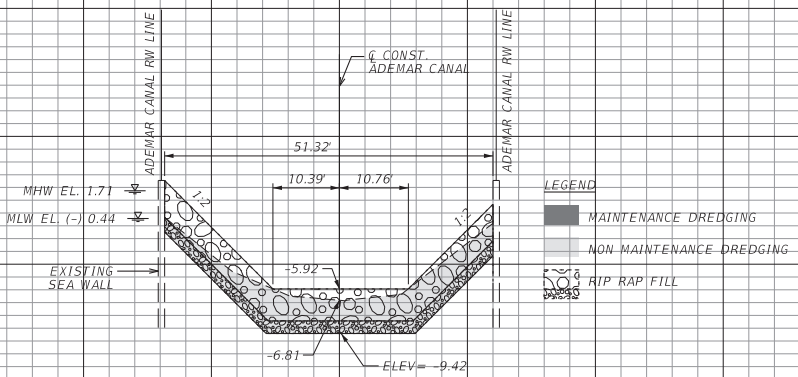
ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

DREDGE & FILL CROSS SECTIONS

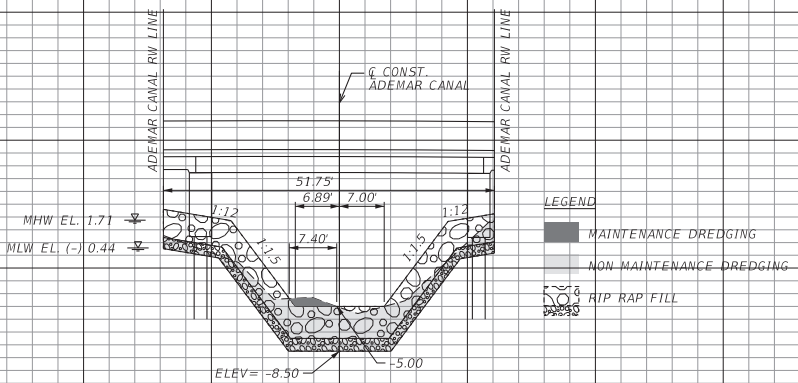
SHEET NO. 4

MDC016

NOTE: FOR DREDGE AND FILL VALUES, REFER TO SHEET 6.



13+00.00



12+50.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ASA CONSULTANTS, INC
8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

DREDGE & FILL CROSS SECTIONS

SHEET NO. 5

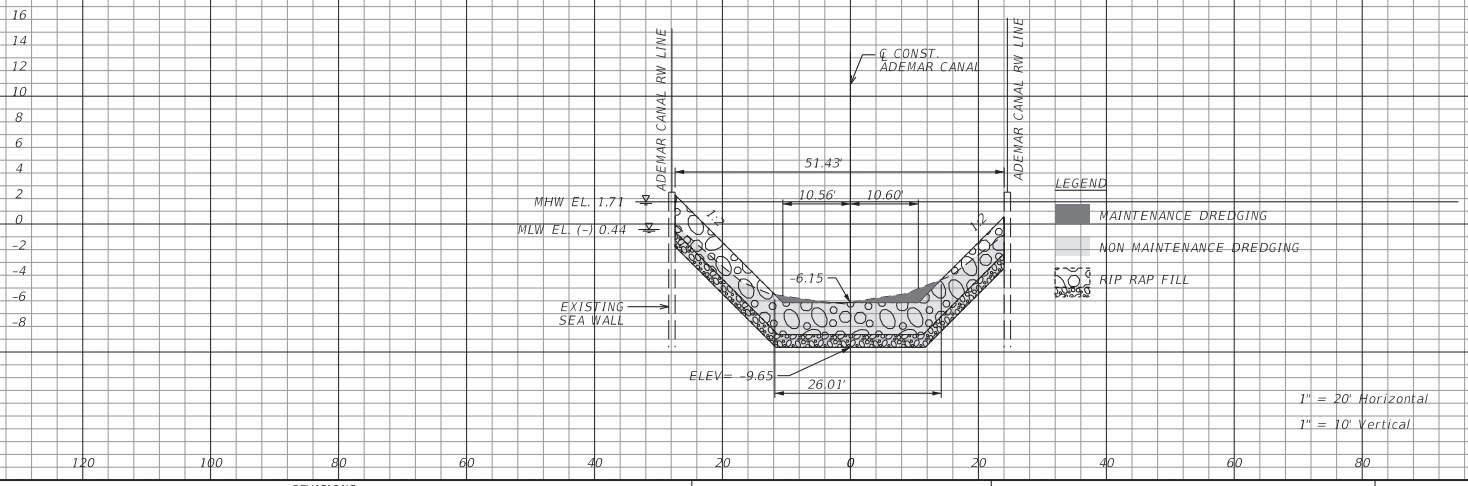
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MDC017

PROJECT TOTAL

SUMMARY

	ACRES	SF	CY
MAINTENANCE DREDGING	0.109	4,744	98.6
NON-MAINTENANCE DREDGING	0.150	6,534	696.3
FILL (RUBBLE RIP RAP) ABOVE MHW	0.001	44	20.3
FILL (RUBBLE RIP RAP) BELOW MHW	0.150	6534	1,065.9
TOTAL FILL			1,086.2



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

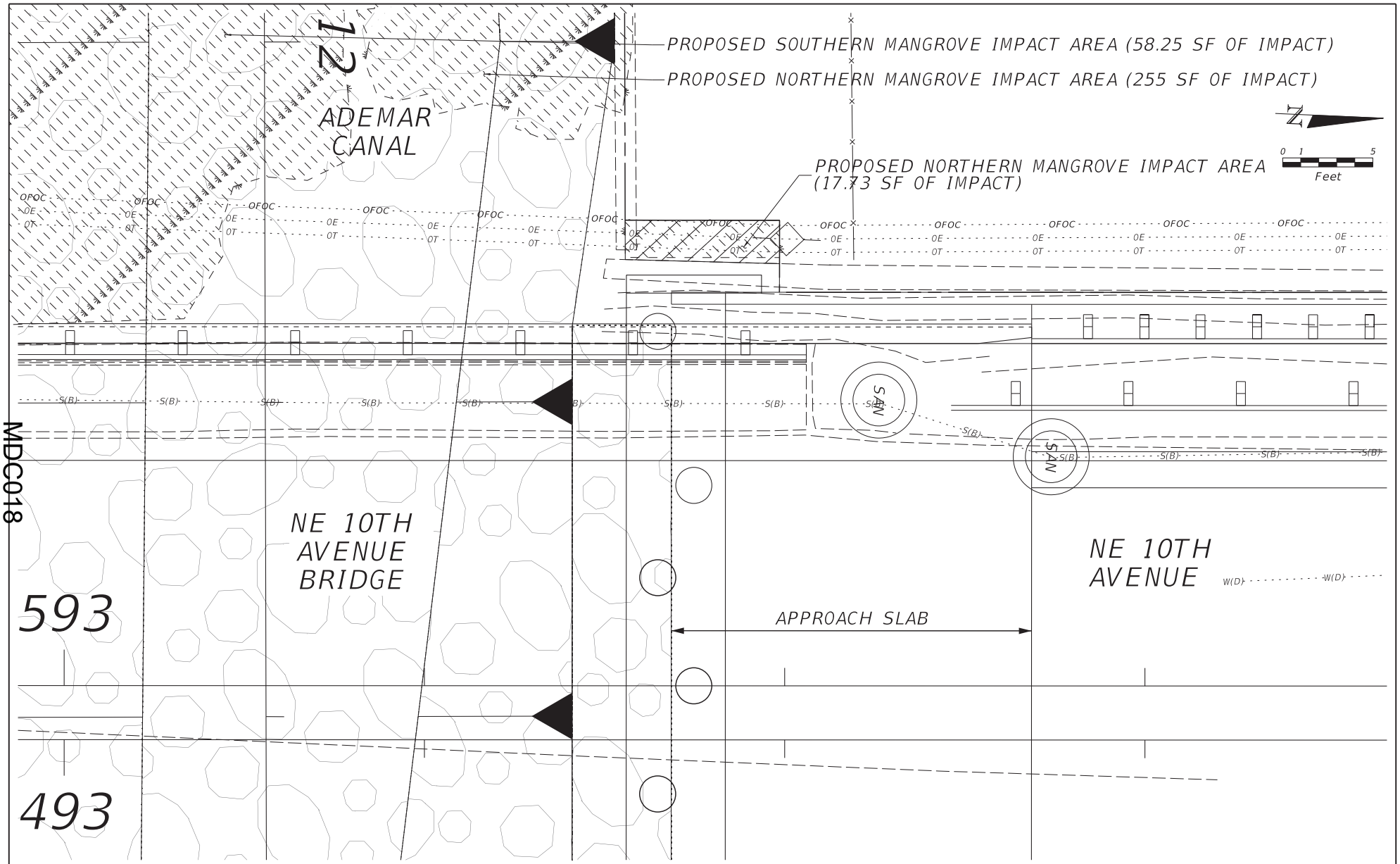
MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

DREDGE & FILL CROSS SECTIONS

SHEET NO. 6

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ASA CONSULTANTS, INC.
8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

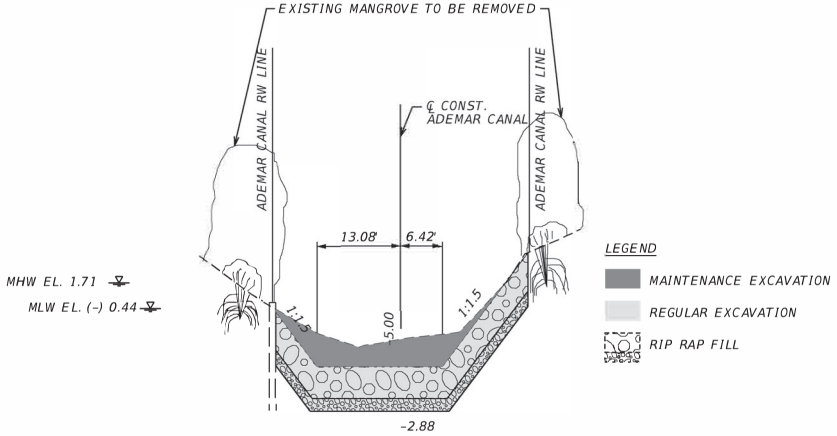
ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

MANGROVE SAPLING HABITAT EXHIBIT

SHEET NO. 7

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MDC019



TYPICAL SECTION

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ASA CONSULTANTS, INC.
8935 NW 35th LANE, SUITE 200
DORAL, FL 33172
(754) 216-2027
CARLOS M. RODRIGUEZ, PE; LIC. NO. 79134

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

PERMIT SKETCH

SHEET NO. 8



Northern Impact Area

NOTES:

Northern Mangrove Impact Area

Mature white and black mangroves along shoreline (255 square feet = 0.006 acre) and red mangrove saplings within proposed right-of-way acquisition (17.73 square feet = 0.0004 acre)
272.73 square feet = 0.0064 acre*

Southern Mangrove Impact Area

Majority Brazilian pepper with approximately 5% mangrove coverage (white and red)
58.25 square feet = 0.001 acre*

*All impacts are limited to canal right-of-way.

NE 10th Ave

0.0004 (17.73 sq ft)

0.006 (255 sq ft)

0.001 (58.25 sq ft)

Ademar Canal



Southern Impact Area

Feet
0 12.5 25

MDC020

MIAMI-DADE COUNTY

Miami-Dade County
Department of Transportation and Public Works
Stephen P. Clark Center
111 NW 1st Street, 16th Floor
Miami, Florida 33128

NE 10th Avenue Bridge Replacement
Bridge No. 874178 over the Ademar Canal
Between NE 83rd and NE 84th Street
Miami-Dade County, Florida
Section: 08 Township: 53S Range: 42E

Mangrove Impact Map

N

- Proposed Mangrove Impacts
- Proposed Rip Rap
- One Foot Setback
- Proposed ROW Acquisition

MIAMI-DADE

DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS

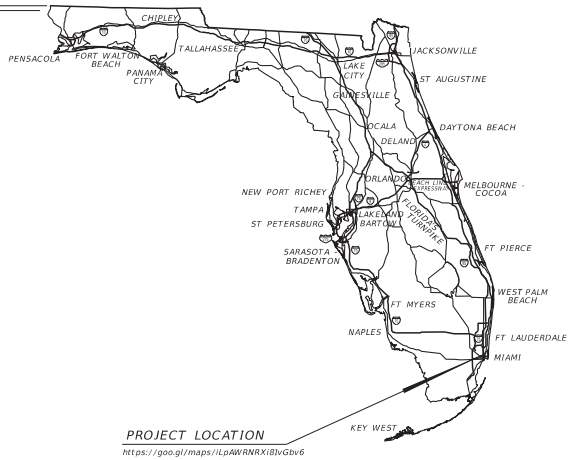
CONTRACT PLANS

PROJECT NO. EDP-MT-20190196

CITY OF MIAMI

NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

STRUCTURE PLANS



100% PLAN SUBMITTAL
JANUARY 2022

INDEX OF STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B1-1	KEY SHEET
B1-2	SIGNATURE SHEET
BQ-1	SUMMARY OF QUANTITIES
B1-3	GENERAL NOTES
B1-4	SURFACE FINISH DETAILS
B1-5	SLOPE PROTECTION DETAILS
B1-6	PLAN AND ELEVATION
B1-7	TYPICAL SECTION
B1-8	BRIDGE HYDRAULICS RECOMMENDATIONS
B1-9	REPORT OF CORE BORINGS NE 10TH AVENUE BRIDGE
B1-10	FOUNDATION LAYOUT
B1-11	PILE DATA TABLE
B1-12	ACIP PILE DETAILS
B1-13	END BENT 1
B1-14	END BENT 2
B1-15	END BENT DETAILS
B1-16	FINISH GRADE ELEVATIONS
B1-17	BEAM TABLE OF VARIABLES
B1-18	SUPERSTRUCTURE PLAN
B1-19	SUPERSTRUCTURE SECTION
B1-20	SUPERSTRUCTURE DETAILS
B1-21	APPROACH SLAB DETAILS
B1-22	REINFORCING BAR LIST
B1-23	LOAD RATING SUMMARY SHEET

STANDARD PLANS FOR BRIDGE CONSTRUCTION

415-001	STANDARD BAR BENDING DETAILS (STEEL)
450-450	FLORIDA SLAB BEAM TYPICAL DETAILS AND NOTES
450-452	15" FLORIDA SLAB BEAM
458-110	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD
515-021	PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING
515-022	PEDESTRIAN/BICYCLE BULLET RAILING DETAILS
521-423	TRAFFIC RAILING - (32" VERTICAL SHAPE)

DEVELOPMENTAL STANDARD PLANS

D20920	APPROACH SLABS (20 FT) (FLEXIBLE PAVEMENT APPROACHES)

STRUCTURE PLANS
ENGINEER OF RECORD:

SOHEILA SADOUGH, P.E.
P.E. NO.: 44130
ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
CONTRACT NO.: CA424
VENDOR NO.: F46551262

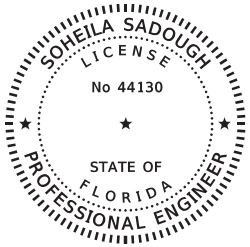
MIAMI-DADE COUNTY
PROJECT MANAGER:

JAQUELINE ALCINA, PE

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	XX	B1-1

MDC021

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

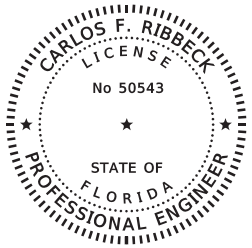
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ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FLORIDA 33326
SOHEILA SADOUGH, P.E. NO. 44130

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

STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
B1-1	KEY SHEET
B1-2	SIGNATURE SHEET
BQ-1	SUMMARY OF QUANTITIES
B1-3	GENERAL NOTES
B1-4	SURFACE FINISH DETAILS
B1-5	SLOPE PROTECTION DETAILS
B1-6	PLAN AND ELEVATION
B1-7	TYPICAL SECTION
B1-10	FOUNDATION LAYOUT
B1-11	PILE DATA TABLE
B1-12	ACIP PILE DETAILS
B1-13	END BENT 1
B1-14	END BENT 2
B1-15	END BENT DETALS
B1-16	FINISH GRADE ELEVATIONS
B1-17	BEAM TABLE OF VARIABLES
B1-18	SUPERSTRUCTURE PLAN
B1-19	SUPERSTRUCTURE DETAILS
B1-20	APPROACH SLAB DETAILS
B1-21	BEARING DETAILS
B1-22	REINFORCING BAR LIST
B1-23	LOAD RATING SUMMARY SHEET



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

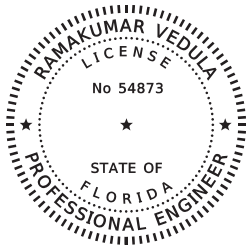
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RIBBECK ENGINEERING, INC.
14335 SW 120TH STREET, SUITE 205
MIAMI, FLORIDA 33186
CARLOS F. RIBBECK, PE. NO. 50543

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

STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
B1-2	SIGNATURE SHEET
B1-8	BRIDGE HYDRAULICS RECOMMENDATIONS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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TIERRA SOUTH FLORIDA, INC.
2765 VISTA PARKWAY, SUITE 10
WEST PALM BEACH, FLORIDA 33411
RAMAKUMAR VEDULA, PE. NO. 54873

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

STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
B1-2	SIGNATURE SHEET
B1-9	REPORT OF CORE BORINGS NE 10TH AVENUE BRIDGE

BRIDGE NO. 874185

MDC022

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: SIGNATURE SHEET

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-2

ssadough 1/28/2022 4:10:23 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str

SUMMARY OF STRUCTURE QUANTITIES - BRIDGE No. 874815

SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
LUMP SUM ITEMS	0110- 3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	EXISTING BRIDGE		1		1		1200 SF OF EXISTING BRIDGE REMOVAL	
	0455- 113- 24	AUGER CAST PILE FOR BRIDGES, 24" DIAMETER		LF	647		647		INCLUDES BOTH FOUNDATIONS AND DEMONSTRATION PILES	
FOUNDATION	0400- 4- 5	CONCRETE CLASS IV, BRIDGE SUBSTRUCTURE	END BENT 1	CY	32.3		63.9			
			END BENT 2	CY	31.6					
SUBSTRUCTURE	0415- 2- 5	STAINLESS REINFORCING STEEL, SUBSTRUCTURE	END BENT 1	LB	3294		6559			
			END BENT 2	LB	3265					
APPROACH SLABS	0400- 2- 10	CONCRETE CLASS II, APPROACH SLABS	APPROACH SLAB 1	CY	36.2		72.4			
			APPROACH SLAB 2	CY	36.2					
	0415- 1- 9	REINFORCING STEEL- APPROACH SLABS	APPROACH SLAB 1	LB	6565		13130			
			APPROACH SLAB 2	LB	6565					
SUPERSTRUCTURE	0400- 4- 47	CONCRETE CLASS IV, CAST IN PLACE TOPPING WITH SHRINKAGE REDUCING ADMIXTURE		CY	65.4		65.4		INCLUDES RAISED SIDEWALKS	
	0400- 7	BRIDGE DECK GROOVING		SY	136		136		INCL. HEAD OF APPROACH SLAB	
	0400- 148	PLAIN NEOPRENE BEARING PADS		CF	4.4		4.4			
	0415- 1- 4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE		LB	9711		9711			
	0415- 2- 4	STAINLESS REINFORCING STEEL, SUPERSTRUCTURE		LB	3282		3282			
	0450- 8- 24	PRESTRESSED BEAM: FLORIDA SLAB BEAM, BEAM DEPTH 15" CARBON STEEL, WIDTH 58-60"		LF	350		350		STAINLESS REINFORCING STEEL FOR BARS 3C & 5E	
	0458- 1- 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	BETWEEN BEAMS	LF	308		389			
			EXP. JOINTS	LF	81					
RAILING/ BARRIERS	0515- 4 -1	BULLET RAIL, SINGLE RAIL		LF	170		170			
	0521- 5- 4	CONCRETE TRAFFIC RAILING, BRIDGE, 32" VERTICAL FACE		LF	170		170			

MDC023

BRIDGE NO. 874185

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ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: SUMMARY OF QUANTITIES

REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: BQ-1

GENERAL NOTES

A. DESIGN SPECIFICATIONS

1. FDOT STRUCTURES MANUAL DATED JANUARY 2021 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.
2. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, [8TH] EDITION.
3. FDOT DESIGN MANUAL DATED JANUARY 2021 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.

B. GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2021-22 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND JANUARY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

C. VERTICAL DATUM

NGVD 29

D. ENVIRONMENT

BRIDGE NUMBER	SUPERSTRUCTURE	SUBSTRUCTURE	
		CONCRETE	STEEL
874178	EXTREMELY	EXTREMELY	EXTREMELY

E. DESIGN METHODOLOGY

LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE, AND FATIGUE LIMIT STATES.

F. DESIGN LOADINGS

1. LIVE LOADS: HL-93 WITH DYNAMIC LOAD ALLOWANCE
2. DEAD LOADS:
   - 32" VERTICAL SHAPE TRAFFIC RAILING 385 PLF
   - ALUMINUM BULLET RAILING 10 PLF
   - REINFORCED CONCRETE 150 PCF
   - FUTURE WEARING SURFACE 15 PSF
3. CONSTRUCTION LOADS:
   - FINISHING MACHINE LOAD: 11 KIPS
   - FINISHING MACHINE WHEEL LOCATION BEYOND THE EDGE OF DECK OVERHANG: 6 INCHES
   - CONSTRUCTION LIVE LOAD: 20 PSF EXTENDED OVER THE ENTIRE BRIDGE WIDTH AND 50-FEET IN LONGITUDINAL LENGTH CENTERED ON THE FINISHING MACHINE.
   - REMOVABLE DECK CANTILEVER TIMBER FORMS WITH OVERHANG BRACKETS: 15 PSF
   - 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): 0.85
   - CONSTRUCTION ACTIVE DESIGN WIND SPEED: 30 MPH
4. UTILITIES: NO ALLOWANCE FOR UTILITY LOADS HAS BEEN INCLUDED IN THE DESIGN.
5. C-I-P TOPPING THICKNESS: 6"

G. MATERIALS

1. REINFORCING STEEL: GRADE 60 CARBON STEEL PER SPECIFICATIONS SECTION 931 EXCEPT AS NOTED BELOW. GRADE 75, 2205 STAINLESS STEEL FOR AUGER-CAST PILES, END BENT CAPS, FLORIDA SLAB BEAMS (BARS 3C, & 5E ONLY) AND BARS 5T3 (REFER TO SUPERSTRUCTURE PLAN SHEET)
2. CONCRETE:

CONCRETE CLASS	MIN. 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION OF CONCRETE IN STRUCTURE
II	3400	TRAFFIC RAILING
IV (C.I.P TOPPING)	5500	C.I.P TOPPING
IV	5500	C.I.P. SUBSTRUCTURE
GROUT-DEV455 ACP	4000	AUGER CAST PILES
VI	8500 ◩	PRESTRESSED CONCRETE BEAMS
II (BRIDGE DECK)	4500	APPROACH SLAB

USE SHRINKAGE REDUCING ADMIXTURE FOR C-I-P TOPPING CONCRETE.

◩ USE HIGHLY REACTIVE POZZOLANS (SILICA FUME, METAKAOLIN, OR ULTRA FINE FLY ASH PER SPECIFICATIONS SECTION 929)

3. CONCRETE COVER:

CAST-IN-PLACE SUPERSTRUCTURE (TOP OF DECK)	2"
CAST-IN-PLACE SUPERSTRUCTURE (EXCEPT TOP OF DECK)	2"
PRECAST PRESTRESED BEAMS (EXCEPT TOP SURFACE)	2"
CAST-IN-PLACE SUBSTRUCTURE (CAST AGAINST EARTH)	4"
CAST-IN-PLACE SUBSTRUCTURE (FORMED SURFACES)	4"

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.

H. CONCRETE SURFACE FINISH

A CLASS 5 FINISH COATING SHALL BE APPLIED TO THE PORTIONS OF THE STRUCTURES SHOWN ON THE SURFACE FINISH DETAIL SHEET(S).

I. PLAN DIMENSIONS

ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

J. UTILITIES

FOR PLAN LOCATIONS OF EXISTING UTILITIES, SEE PLAN AND ELEVATION SHEET(S). LOCATIONS OF UTILITIES, SHOWN IN THE PLANS ARE APPROXIMATE. FOR DISPOSITION OF UTILITIES, SEE THE UTILITY ADJUSTMENT SHEET(S) IN THE ROADWAY PLANS.

K. BRIDGE NAME AND NUMBER

PLACE THE FOLLOWING BRIDGE NAME AND NUMBER ON THE TRAFFIC RAILINGS IN ACCORDANCE WITH THE TRAFFIC RAILING STANDARD PLANS:

NAME	NUMBER
NE 10TH AVE OVER SHORECREST CANAL	874185

L. 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.

M. STAY-IN-PLACE DECK FORMS

NOT APPLICABLE.

N. 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.

O. 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.

P. TRAFFIC CONTROL PLANS

SEE THE TRAFFIC CONTROL PLANS IN THE ROADWAY PLANS. REFER TO STANDARD PLANS INDEX 102-600 FOR SPECIFIC REQUIREMENTS RELATED TO OVERHEAD BRIDGE CONSTRUCTION.

Q. PHASING OF WORK

WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM TO THE TRAFFIC CONTROL PLANS LOCATED IN THE ROADWAY PLANS AND THE NOTES ON THE DETOUR DRAWINGS.

R. C-I-P TOPPING

THOROUGHLY SATURATE THE TOP SURFACE OF THE FSB WITH WATER IN ACCORDANCE WITH SPECIFICATION SECTION 400 FOR 12 HOURS IMMEDIATELY PRIOR TO PLACING THE C-I-P TOPPING. REMOVE STANDING WATER PRIOR TO PLACING THE C-I-P TOPPING. CURE THE C-I-P TOPPING IN ACCORDANCE WITH THE SPECIFICATION 400 REQUIREMENTS FOR BRIDGE DECKS.

FAA COORDINATION

THIS PROJECT LIES WITHIN 10 NAUTICAL MILES OF AN AIRPORT. ALL PERMANENT FEATURES OF THE PROJECT HAVE BEEN FOUND IN COMPLIANCE WITH FEDERAL AVIATION ADMINISTRATION (FAA) 14 CFR PART 77 (№ 77.7). DURING CONSTRUCTION, COMPLY WITH FEDERAL AVIATION ADMINISTRATION (FAA) 14 CFR PART 77 (№77.7). THE CONTRACTOR SHALL CONTACT APPROPRIATE FAA PERSONNEL TO COORDINATE SUCH COMPLIANCE FOR CONSTRUCTION OPERATIONS AND EQUIPMENT TO BE USED ON THE PROJECT SITE. BE AWARE THAT 14 CFR PART 77 (№ 77.7) ESTABLISHES THAT NOTIFICATION MUST BE SUBMITTED 45-DAYS PRIOR TO CONSTRUCTION ACTIVITIES WHICH MAY IMPACT AIRPORT-CONTROLLED AIRSPACE OR FACILITIES. GIVEN THE TIME REQUIRED TO CONDUCT AN AERONAUTICAL STUDY, A 45-60 DAY ADVANCE FILING IS RECOMMENDED TO ACCOMMODATE THE REVIEW PROCESS AND ALLOW TIMELY ISSUANCE OF THE FAA DETERMINATION LETTER. THE CONTRACTOR SHALL FILE THE REQUIRED NOTICE OF CONSTRUCTION COMMENCEMENT FORM (7460-2 PART 1) PRIOR TO STARTING WORK. THE CONTRACTOR SHALL FILE THE REQUIRED FORM (7460-2 PART 2) WITHIN 5-DAYS OF COMPLETION OF THE HIGHEST ELEMENT OF PERMANENT CONSTRUCTION. SEE HTTPS://WWW.FAA.GOV/AIRPORTS/CENTRAL/ENGINEERING/PART77/ FOR ADDITIONAL INFORMATION.

REQUEST THAT AVIATION AND SEAPORTS OFFICE PERSONNEL BE INVITED TO THE PRECONSTRUCTION CONFERENCE TO DISCUSS. SEE THE UTILITIES AND AGENCY CONTACTS LISTING FOR AVIATION AND SEAPORTS OFFICE PERSONNEL CONTACT INFORMATION, AND FOR CONTACT INFORMATION FOR OTHER REQUIRED ACTIONS.

MDC024

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: GENERAL NOTES

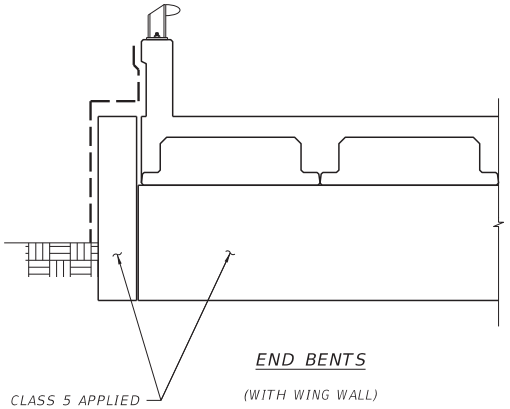
REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-3

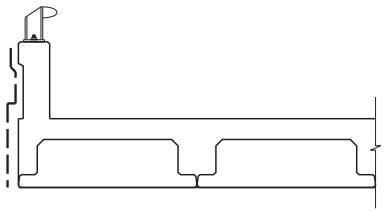
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MDC025



END BENTS

(WITH WING WALL)



SUPERSTRUCTURE

LEGEND

CLASS 5 APPLIED FINISH COATING

NOTE

1. APPLY CLASS 5 FINISH IN ACCORDANCE WITH THE DETAILS ON THIS SHEET.

BRIDGE NO. 874185

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: SURFACE FINISH DETAILS

REF. DWG. NO.:

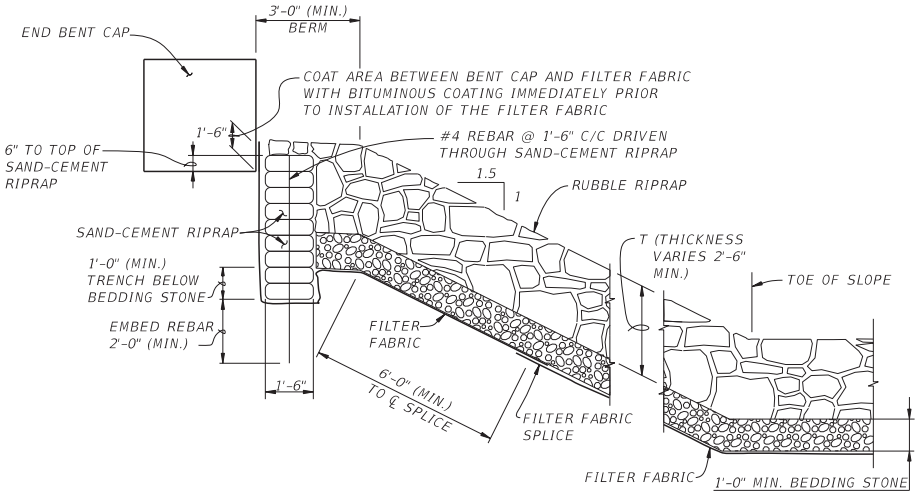
PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-4

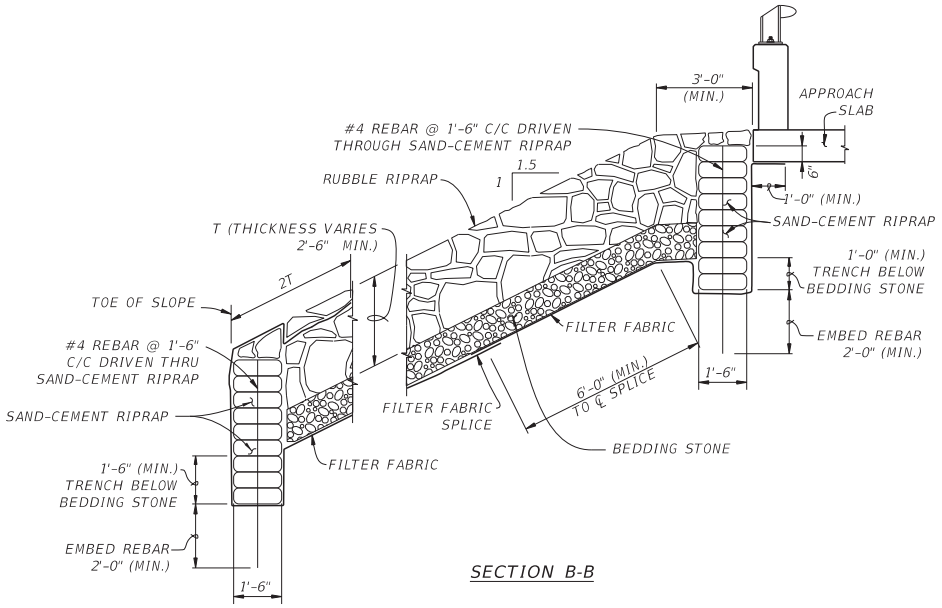
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MDC026



SECTION A-A



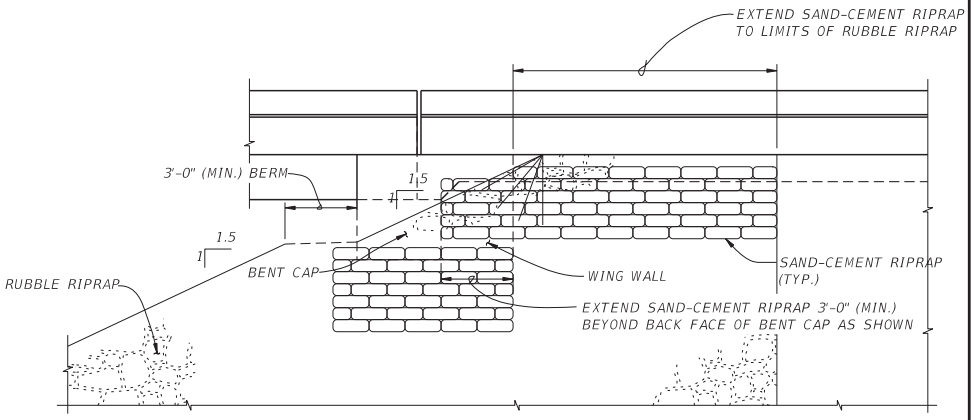
SECTION B-B

NOTES:

FILTER FABRIC SHALL BE TYPE D-2, IN ACCORDANCE WITH SPECIFICATIONS SECTION 985. SPLICE LENGTH SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION 514.

FOR LOCATION OF SECTION A-A & B-B, SEE SHEET B1-6.

COST OF #4 REBAR SHALL BE INCIDENTAL TO THE COST OF THE RUBBLE RIPRAP.



PARTIAL SIDE ELEVATION

BRIDGE NO. 874185

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY:	EZ 07-20
CHECKED BY:	SS 07-20
DESIGNED BY:	SS 07-20
CHECKED BY:	RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

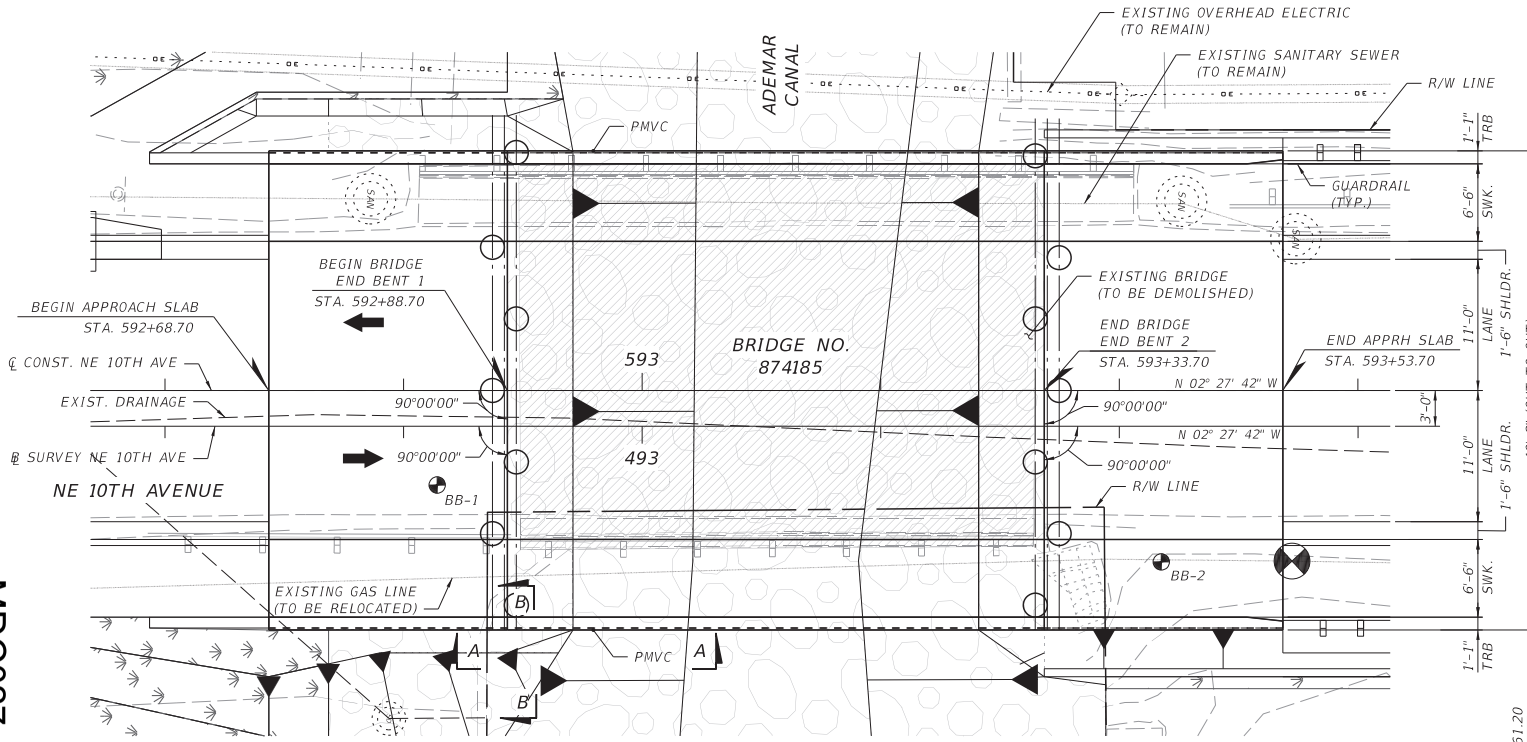
SHEET TITLE: SLOPE PROTECTION DETAILS

REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-5

MDC027



PLAN

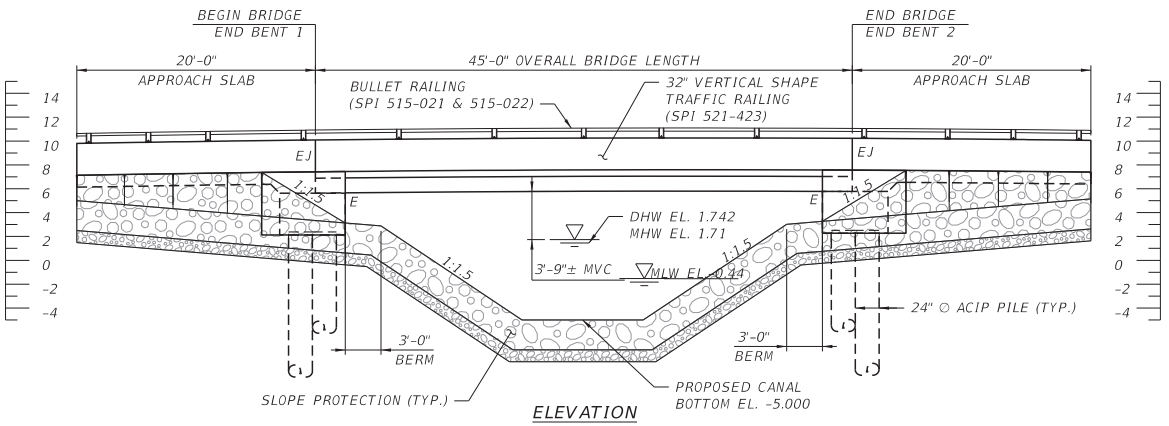
DIRECTION OF STATIONING

LEGEND

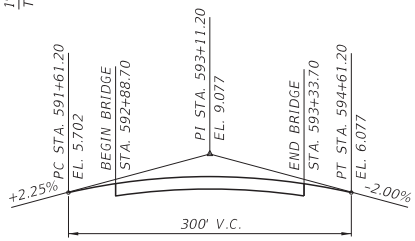
	LIMITS OF RUBBLE RIP RAP
	EXISTING BRIDGE DEMOLITION
	APPROXIMATE BORING LOCATION
PMVC	POINT OF MINIMUM VERTICAL CLEARANCE
DHW	DESIGN HIGH WATER
E	EXPANSION BEARING
EJ	EXPANSION JOINT
TRB	TRAFFIC RAILING BARRIER

NOTES:

1. FOR BORING DATA, SEE SHEET B1-9.
2. FOR SECTIONS A-A AND B-B, SEE SHEET B1-5.



ELEVATION



VERTICAL CURVE DATA

TRAFFIC DATA

CURRENT YEAR= 2020 AADT = 14200
K = 9% D = 56% T = 3.1% (24 HOUR)
DESIGN HOUR T = 3.1%
DESIGN SPEED = 40 MPH
POSTED SPEED = 30 MPH

BRIDGE NO. 874185

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20	
CHECKED BY: SS 07-20	
DESIGNED BY: SS 07-20	
CHECKED BY: RA 07-20	

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: PLAN AND ELEVATION

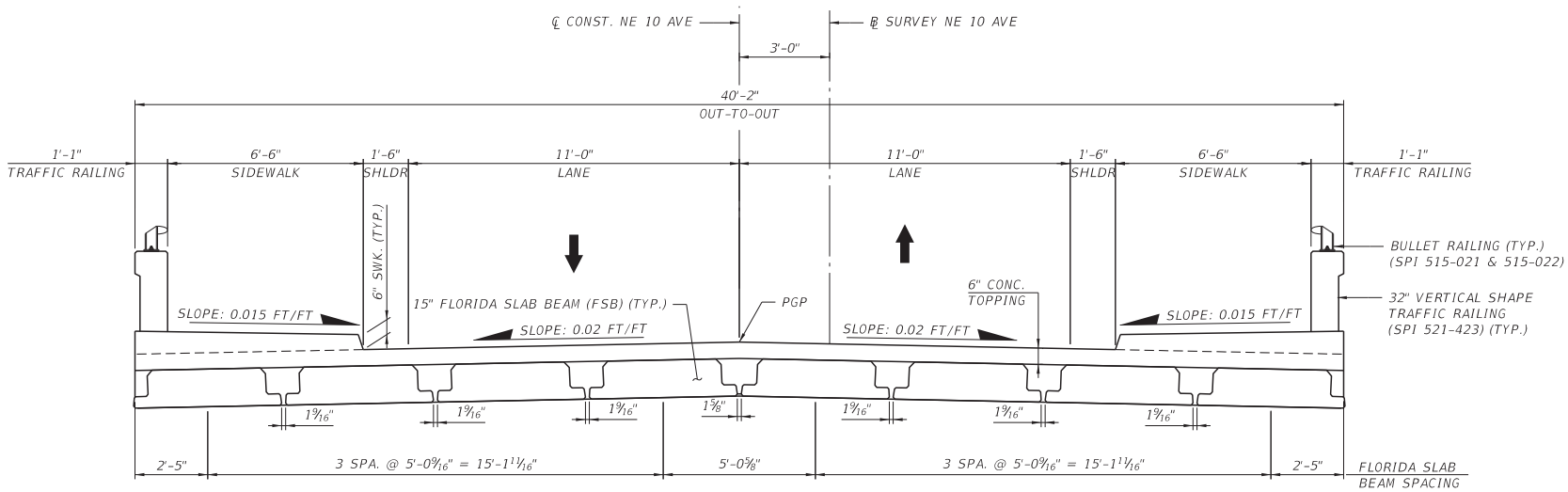
REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-6

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MDC028



TYPICAL SECTION

BRIDGE NO. 874185

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY:	EZ 07-20
CHECKED BY:	SS 07-20
DESIGNED BY:	SS 07-20
CHECKED BY:	RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: TYPICAL SECTION

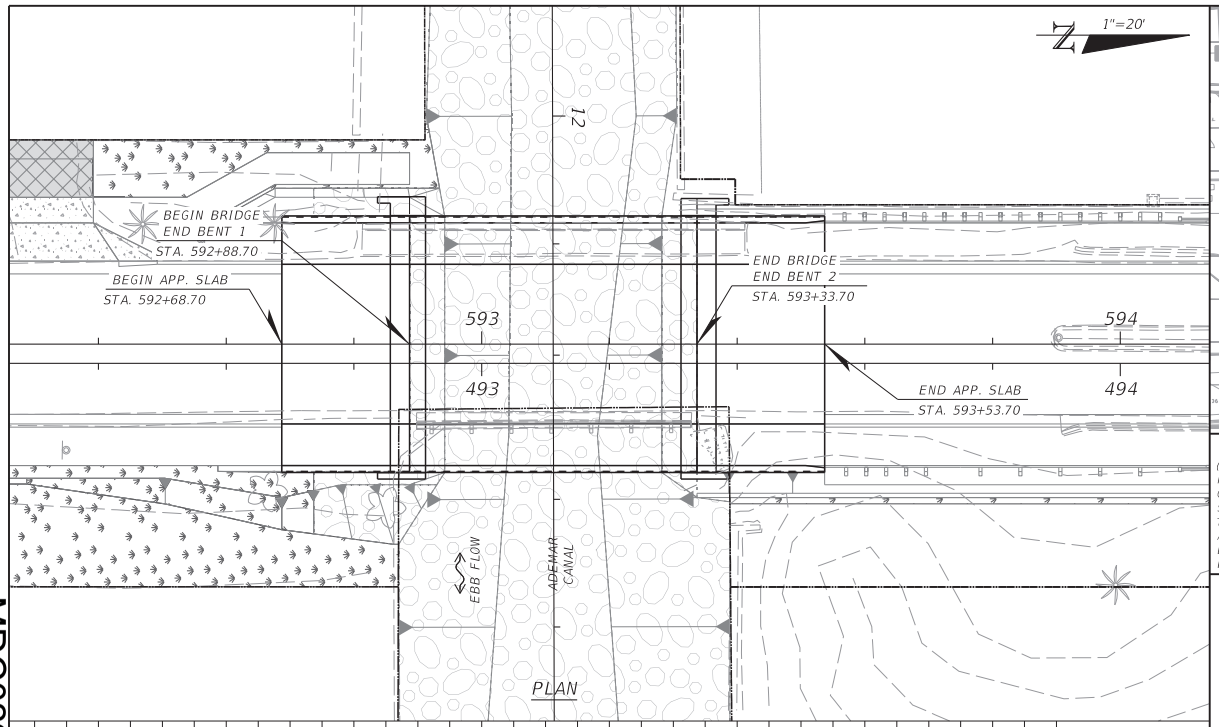
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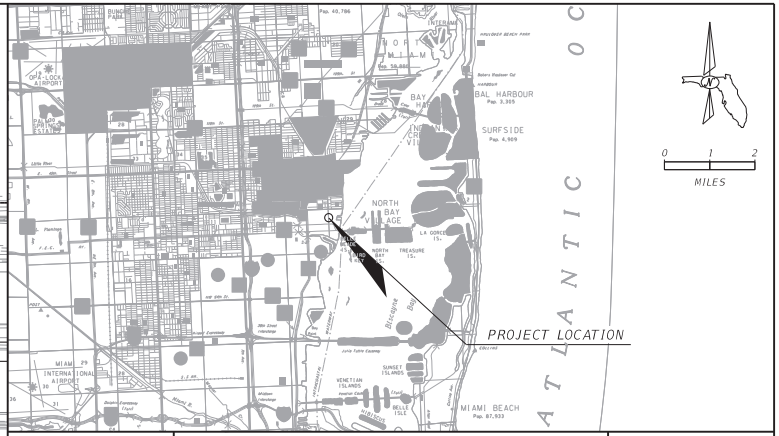
PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-7

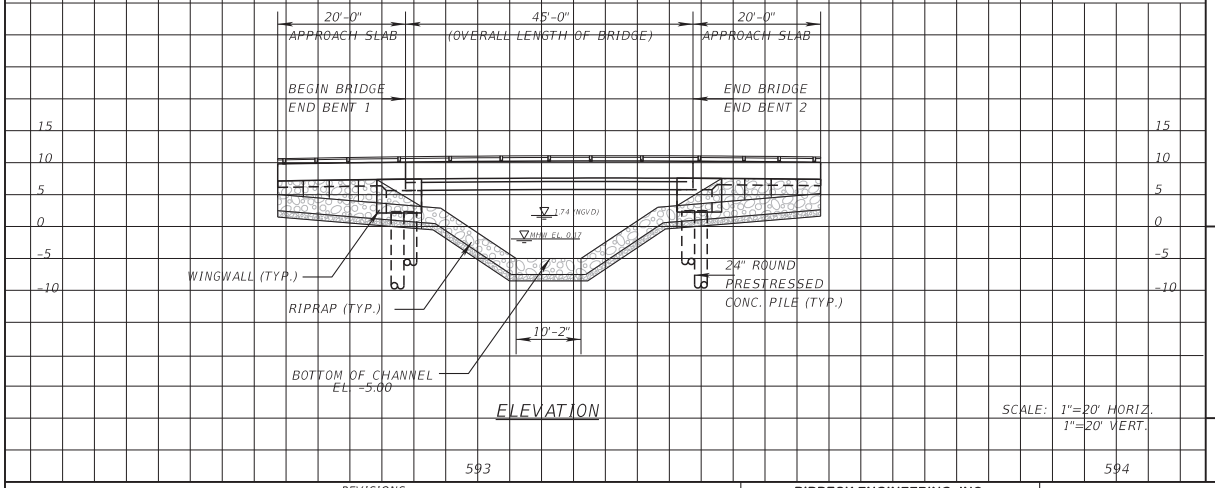
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MDC029





BRIDGE NO. 874178



SCALE: 1"=20' HORIZ.
1"=20' VERT.

EXISTING STRUCTURES

(REFERENCE)	(1)	(2)	(3)	(4)	PROPOSED STRUCTURE
FOUNDATION	UNKNOWN				PREST. CONC. PILES
OVERALL LENGTH	44'				45'
SPAN LENGTH	44'				45'
TYPE CONSTRUCTION	CONC. SLAB				CONC. SLAB
AREA OF OPENING@D.F.	390 SQ. FT.				390 SQ. FT.
BRIDGE WIDTH	32'				40'
ELEV. LOW MEMBER	5.50' NGVD				5.50' NGVD

HYDRAULIC DESIGN DATA

NOTE:
The hydraulic data is shown for informational purposes only to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgements and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be obtained.

TERMS:
Design Flood: Utilized to assure a desired level of hydraulic performance.
Base Flood: Has a 1% chance of being exceeded in any given year (100 year frequency)
Overtopping Flood: Causes flow over the highway, over a watershed divide, or thru emergency relief structures.
Greatest Flood: The most severe that can be predicted where overtopping is not practicable.

WATER SURFACE ELEVATIONS: N.H.W. (Non-Tidal) ____ M.H.W. (Tidal) 0.20 NAVD (1.74 NGVD)
CONTROL (Non-Tidal) ____ M.L.W. (Tidal) -1.98 NAVD (-0.44 NGVD)

☐ OVERTOPPING or ☐ GREATEST FLOOD

FLOOD DATA:	MAX. EVENT OF RECORD	DESIGN FLOOD REM #1	BASE FLOOD REM #1	REM #1
STAGE ELEV. NAVD (ft)	N/A	N/A	N/A	N/A
DISCHARGE (cfs)	N/A	N/A	N/A	N/A
AVERAGE VELOCITY (f/s)	N/A	N/A	N/A	N/A
EXCEEDANCE PROB. (%)	N/A	N/A	N/A	N/A
FREQUENCY (yr.)	N/A	N/A	N/A	N/A

SCOUR PREDICTIONS FOR PROPOSED STRUCTURE DESCRIBED ABOVE:

TOTAL SCOUR ELEVATION ____

PIER INFORMATION NUMBERS	SIZE AND TYPE	LONG TERM SCOUR ELEV. REM #2	WORST CASE < 100 yr. FREQ. (yr.)	WORST CASE < 500 yr. FREQ. (yr.)
N/A	N/A		N/A	N/A

HYDRAULIC RECOMMENDATIONS

1. BEGIN BRIDGE STATION ____ END BRIDGE STATION ____ SKEW ANGLE 0°
2. CLEARANCE PROVIDED: NAV: HORIZ. 45' VERT. 3.76' ABOVE EL. 1.74 NGVD DRIFT: HORIZ. 45' VERT. 3.76' ABOVE EL. 1.74 NGVD
3. MINIMUM CLEARANCE: NAV: HORIZ. 25' VERT. 2.00' ABOVE EL. 1.74 NGVD DRIFT: HORIZ. 25' VERT. 2.00' ABOVE EL. 1.74 NGVD
4. ABUTMENTS:

	BEGIN BRIDGE	END BRIDGE
RUBBLE GRADE:	BANK AND SHORE (TYP.)	BANK AND SHORE (TYP.)
SLOPE:	1:2	1:2
BURIED OR NON-BURIED HORIZ. TOE:	BURIED	BURIED
TOE HORIZ. DISTANCE:	WIDTH OF CANAL (10')	WIDTH OF CANAL (10')
LIMIT OF PROTECTION:	45' UPSTREAM, 54' DOWNSTREAM	45' UPSTREAM, 54' DOWNSTREAM

5. DECK DRAINAGE: SPREAD IS CONTAINED WITHIN 1/2 A LANE, NO SCUPPER NECESSARY

REMARKS: (1) THE BRIDGE IS AT THE END OF A DEAD-END CANAL THAT DOES NOT DRAIN A SIZABLE WATERSHED. FLOWS ARE LIMITED TO THE EBB OF THE TIDE.
(2) THE PROPOSED BRIDGE DOES NOT CONSTRICT THE EXISTING CANAL. BOTTOM OF THE CANAL UNDER THE BRIDGE WILL BE EXCAVATED IN NATURAL LIMESTONE LAYER. NO SIGNIFICANT SCOUR IS ANTICIPATED.

REVISIONS DATE	DESCRIPTION	DATE	DESCRIPTION

RIBBECK ENGINEERING, INC.
14335 SW 120 STREET, SUITE 205
MIAMI, FLORIDA 33186
TEL. (305) 383-5909
FBPE C.A. NO. 27592
CARLOS F. RIBBECK, P.E. LICENSE NO. 50543

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

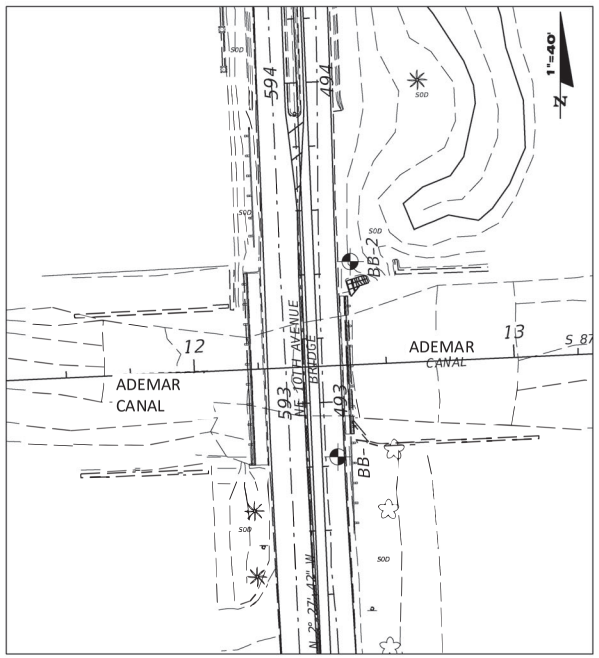
ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

BRIDGE HYDRAULIC RECOMMENDATIONS

SHEET NO. B1-8

$USER$ $DATE$ $TIME$ $FILE$

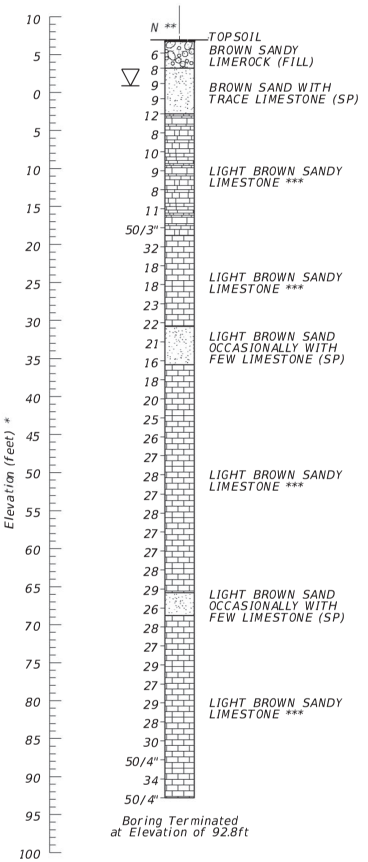
MDC030



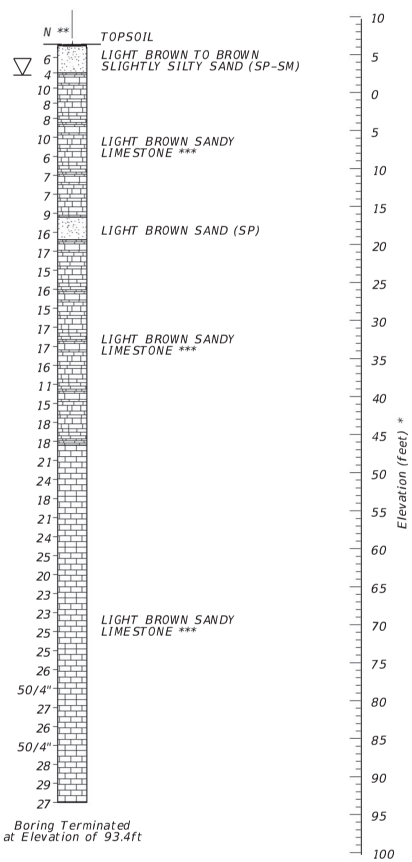
BORINGS LOCATION PLAN

Approximate Location of SPT Borings

BOR # BB-1
STA. 492+82.82 NE10AVE
OFF. 5.0' RT
*ELEV. 7.2
DATE 5/22/2020
HAMMER Auto
RIG CME-45
LATITUDE 25.852415
LONGITUDE -80.176586



BOR # BB-2
STA. 493+43.51 NE10AVE
OFF. 11.0' RT
*ELEV. 6.6
DATE 5/19/2020
HAMMER Auto
RIG CME-45
LATITUDE 25.852583
LONGITUDE -80.176574



LEGEND

Asphalt
Limestone Soft
Sandy Gravel
Limestone Hard
Sand
Sandy Silt

NOTES:

∇ ENCOUNTERED WATER TABLE DURING DRILLING

GNE GROUNDWATER NOT ENCOUNTERED IN UPPER 10 FEET

APPROXIMATE LOCATION OF SPT BORING

* ELEVATION BASED ON TIN FILE

** NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12" PENETRATION. (UNLESS OTHERWISE NOTED.) GENERALLY DESIGN CORRELATION AND PROGRAMS USE SAFETY HAMMER N-VALUES, HENCE THE ABOVE N-VALUES NEED TO BE MULTIPLIED BY 1.23 TO OBTAIN EQUIVALENT SAFETY HAMMER N-VALUES FOR DESIGN PURPOSE.

*** THE LIMESTONE STRATA ENCOUNTERED WITHIN THE PROJECT SITE CORRESPOND TO ROCK FORMATION THAT TYPICALLY OFFER HIGH RESISTANCE TO EXCAVATION AND DRILLING. SPECIAL EQUIPMENT AND BREAKING TOOLS ARE TYPICALLY REQUIRED TO EXCAVATE AND DRILL WITHIN THESE LIMESTONE LAYERS. THESE LIMESTONE LAYERS ARE ALSO DIFFICULT TO DEWATER DUE TO ITS HIGH POROSITY AND PERMEABILITY.

STRATA BOUNDARIES ARE APPROXIMATE AND MAY VARY BETWEEN OR AWAY FROM BORING LOCATIONS.

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.375 inches
SPOON OUTSIDE DIA.	2.0 inches
AVG. HAMMER DROP	30.0 inches
HAMMER WEIGHT	140.0 pounds

SPT CONSISTENCY CHART

SILTS AND CLAYS

CONSISTENCY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 - 4	1 - 3
FIRM	4 - 8	3 - 6
STIFF	8 - 15	6 - 12
VERY STIFF	15 - 30	12 - 24
HARD	GREATER THAN 30	GREATER THAN 24

SPT DENSITY CHART

GRANULAR MATERIALS

RELATIVE DENSITY	SAFETY HAMMER SPT N-VALUE (BLOW/FOOT)	AUTOMATIC HAMMER SPT N-VALUE (BLOW/FOOT)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 - 10	3 - 8
MEDIUM	10 - 30	8 - 24
DENSE	30 - 50	24 - 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40

ENVIRONMENTAL CLASSIFICATION
(BASED ON WATER SAMPLE)
SUPERSTRUCTURE: EXTREMELY AGGRESSIVE
SUBSTRUCTURE:
STEEL: EXTREMELY AGGRESSIVE
CONCRETE: EXTREMELY AGGRESSIVE
(RESISTIVITY=80 ohm-CM)

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

RAMAKUMAR VEDULA, P.E.
P.E. LICENSE NUMBER 54873
TIERRA SOUTH FLORIDA, INC.
2765 VISTA PARKWAY, S-10
WEST PALM BEACH, FL 33411

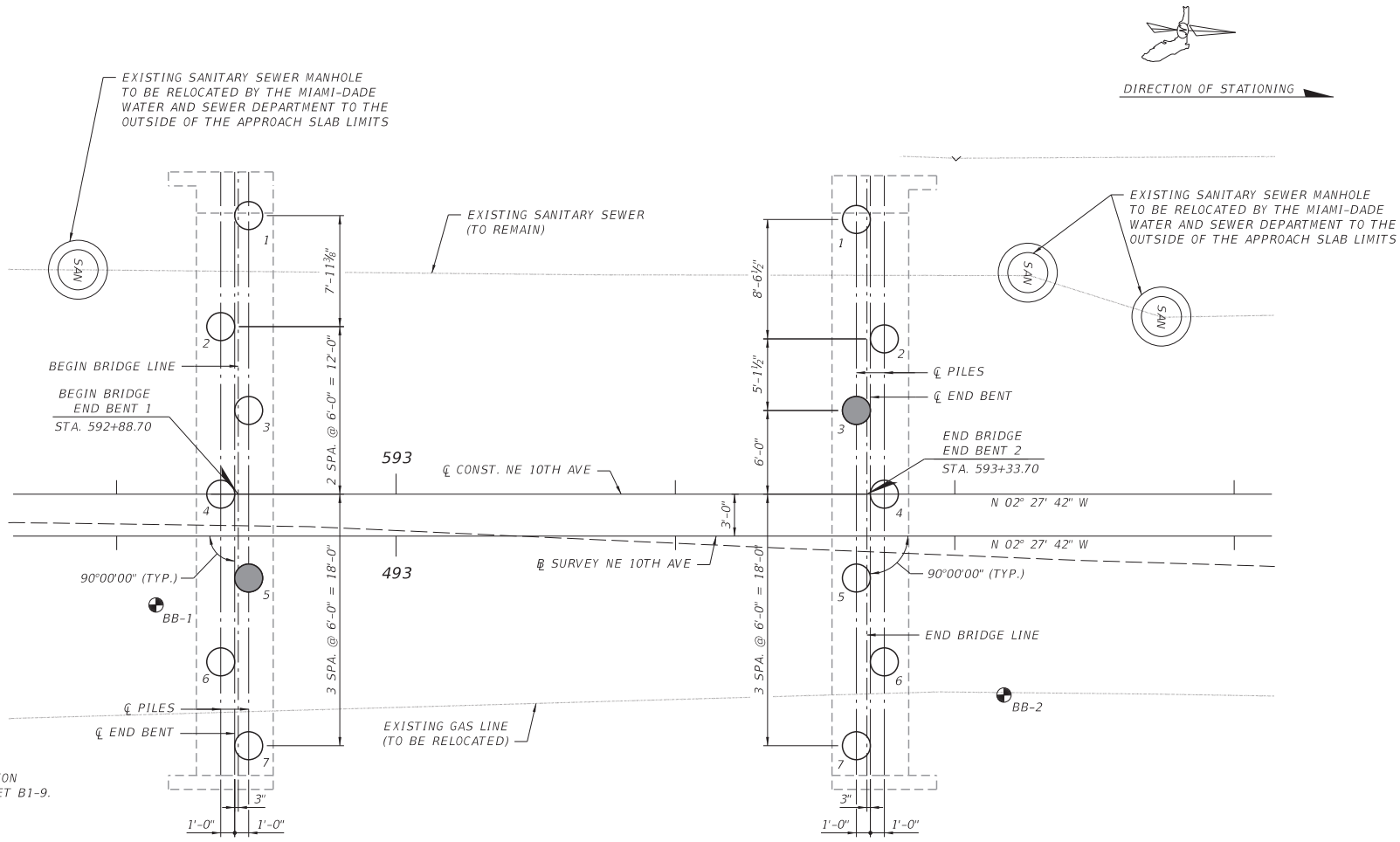
MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	PROJECT NUMBER
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

REPORT OF CORE BORINGS
NE 10TH AVENUE BRIDGE

SHEET NO. B1-9

MDC031



LEGEND

- APPROXIMATE BORING LOCATION FOR BORING DATA, SEE SHEET B1-9.
- 24" ∅ ACIP PILE, TYP.
- 24" ∅ ACIP DEMONSTRATION PILE

NOTES:

1. PILE SPACING IS DIMENSIONED ALONG ℄ PILE.
2. FOR PILE DATA TABLE, TABLE OF PILE CUT-OFF ELEVATIONS, AND NOTES, SEE SHEET B1-11.
3. THE EXISTING PILES TO BE CUT TWO FEET BELOW THE MUDLINE/GROUND LINE.

BRIDGE NO. 874185

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY:	EZ 07-20
CHECKED BY:	SS 07-20
DESIGNED BY:	SS 07-20
CHECKED BY:	RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: FOUNDATION LAYOUT

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-10

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ACIP PILE DATA TABLE

INSTALLATION CRITERIA						DESIGN CRITERIA						TESTING	TOP OF ACIP PILE ELEVATION	EXITING GRADE
END BENT OR PIER NO.	SIZE (In.)	TIP ELEV. [5] (Ft.)	MIN. TIP ELEV. [6] (Ft.)	MIN. PILE EMBEDMENT LENGTH [7] (Ft.)	MIN. TOP OF BEARING LAYER ELEV. [7] (Ft.)	FACTORED DESIGN LOAD (tons)	FACTORED DESIGN UPLIFT LOAD (tons)	DOWN DRAG (tons)	100-YEAR SCOUR ELEV. (Ft.)	Ø COMPRESSION	Ø UPLIFT	CONSIDER REDUNDANT	(Ft.)	
END BENT 1	24	-41	-41	44	-20	100	N/A	N/A	N/A	0.5	0.4	YES	SEE TABLE	+7.47' ±
END BENT 2	24	-46	-46	49	-20	100	N/A	N/A	N/A	0.5	0.4	YES	SEE TABLE	+7.35' ±

ACIP = AUGER CAST-IN-PLACE PILE

TOP OF ACIP PILE ELEVATION

LOCATION	PILE 1	PILE 2	PILE 3	PILE 4	PILE 5	PILE 6	PILE 7
END BENT 1	+2.443	+2.602	+2.722	+2.842	+2.722	+2.602	+2.482
END BENT 2	+2.500	+2.671	+2.773	+2.893	+2.773	+2.653	+2.533

NOTES:

1. NON-PRODUCTION DEMONSTRATION PILE(S) SHALL BE INSTALLED AT THE LOCATION(S) INDICATED IN THE PLANS. THE DEMONSTRATION PILE(S) SHALL BE CONSTRUCTED WITH THE SAME DIAMETER, DEEPEST TIP ELEVATION, REINFORCEMENT, AND THERMAL INTEGRITY TESTING WIRES AS THE PRODUCTION PILES. A PILOT HOLE(S) SHALL BE PERFORMED AT THE LOCATION OF THE DEMONSTRATION PILE(S).
2. ALL ACIP PILES SHALL BE INSTALLED PLUMB IN ACCORDANCE WITH SECTION 455-44 OF THE MODIFIED SPECIAL PROVISIONS (MSP) FOR ACIP PILES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION OF ALL EXISTING ABOVE AND BELOW GROUND UTILITIES PRIOR TO INSTALLATION OF PILES. FOR DISPOSITION OF EXISTING UTILITIES. SEE ROADWAY PLANS.
4. FOLLOWING THE TEST PILE PROGRAM, A LETTER WILL BE ISSUED BY THE ENGINEER FOR PRODUCTION PILE LENGTHS AND TIP ELEVATIONS. PRODUCTION PILE INSTALLATION SHALL NOT COMMENCE UNTIL THE PRODUCTION PILE LENGTH AND TIP ELEVATION HAS BEEN ISSUED BY THE ENGINEER AND APPROVED BY THE DEPARTMENT.
5. ALL PILES SHALL BE INSTALLED TO THE TIP ELEVATION AS SHOWN ON THE PROJECT PLANS UNLESS LOAD TEST DATA. ROCK CORE TESTS, OR OTHER GEOTECHNICAL TEST DATA OBTAINED DURING PILOT HOLES ALLOWS THE ENGINEER TO AUTHORIZE A DIFFERENT TIP ELEVATION. ACTUAL TIP ELEVATIONS ARE TO BE RECORDED IN AS-BUILT PLANS.
6. THE MINIMUM TIP ELEVATION PROVIDED IN THE PLANS SATISFIES AXIAL (COMPRESSION AND UPLIFT). LATERAL, AND SETTLEMENT REQUIREMENTS.
7. THE MINIMUM PILE EMBEDMENT LENGTH IS REQUIRED BELOW THE MINIMUM TOP OF BEARING LAYER ELEVATION TO ACHIEVE THE REQUIRED NOMINAL BEARING RESISTANCE.
8. TEST ALL DEMONSTRATION PILES, TEST PILES, AND PRODUCTION PILES BY MEANS OF THERMAL INTEGRITY TESTING IN ACCORDANCE WITH THE MSP FOR ACIP PILES.
9. THE PROVISIONS IN THE SETTLEMENT AND VIBRATION MONITORING PLAN (SVMP), NOISE CONTROL MONITORING PLAN (NCMP), AND SECTION 108 OF THE FDOT STANDARD SPECIFICATIONS SHALL BE FOLLOWED FOR THE PROTECTION OF THE EXISTING STRUCTURES AND/OR NEARBY UTILITIES DURING PILE INSTALLATION OPERATIONS. ALL STRUCTURES AND/OR UTILITIES LOCATED ADJACENT TO THE PROPOSED PILE INSTALLATION OPERATIONS SHALL BE SURVEYED AS WELL AS MONITORED FOR VIBRATIONS AND SETTLEMENTS IN ACCORDANCE WITH THE APPROVED SVMP, NCMP, AND SECTION 108 OF THE FDOT STANDARD SPECIFICATIONS.
10. COMPRESSION LOAD TEST(S) SHALL BE PERFORMED AT THE LOCATIONS INDICATED IN THE PLANS IN ACCORDANCE WITH SECTION 455 OF THE MSP FOR ACIP PILES. A PILOT HOLE SHALL BE PERFORMED AT THE LOCATION OF EACH COMPRESSION LOAD TEST. COMPRESSION TEST LOAD SHALL BE AT LEAST 200 TONS FOR THE LOCATION SHOWN IN THE PLANS. THE TEST PILE SHALL BE INSTALLED TO THE TIP ELEVATION SHOWN IN THE ACIP PILE DATA TABLE, AND SHALL BE REINFORCED AS SHOWN IN THE PLANS.
11. A MINIMUM OF FIVE (5) PERCENT OR AT LEAST ONE (1) PER FOUNDATION UNIT OF PRODUCTION PILES SHALL BE PROOF TESTED TO THE FACTORED DESIGN RESISTANCE TO VERIFY THE LOAD-CARRYING CAPACITY OF THE ACIP PILES. THE FACTORED DESIGN RESISTANCE IS THE SUM OF THE FACTORED DESIGN LOAD, DOWNDRAG LOAD, AND NET SCOUR LOAD. THE PILES TO BE TESTED SHALL BE SELECTED BY THE ENGINEER, WITH CONCURRENCE BY THE ENGINEER, AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE MSP FOR ACIP PILES. PROOF TESTING CAN BE PERFORMED BY MEANS OF RAPID LOAD TEST (RLT), STATIC LOAD TEST (SLT) OR DYNAMIC LOAD TEST (DLT). THE ENGINEER SHALL REVIEW ALL PROOF LOAD TEST DATA FOR ACCEPTANCE. IF RLT OR DLT IS SELECTED, PROOF TESTING IS REQUIRED FOR ALL LOAD TEST PILES PRIOR TO STATIC LOAD TESTING.
12. THE BORINGS ENCOUNTERED VERY DENSE SANDS AND/OR A VERY HARD LIMESTONE FORMATION. DEWATERING, PENETRATING AND/OR EXCAVATING THROUGH THE VERY DENSE SANDS AND LIMESTONE FORMATION MAY REQUIRE SPECIAL EQUIPMENT DUE TO THE STRENGTH OF THE MATERIALS.
13. THE BORINGS AND ROCK CORING LOCATIONS REVEALED THE PRESENCE OF VERY LOOSE SOILS AND WEAK LIMESTONE. AS SUCH, THE ACIP PILE CONTRACTOR SHOULD BE FAMILIAR WITH MEANS AND METHODS TO INSTALL ACIP PILES IN VERY LOOSE SOILS. ALSO, DUE TO THE PRESENCE OF LOOSE SOIL ZONES AND POROUS LIMESTONE FORMATION, IT IS POSSIBLE THAT LOSS OF GROUT FLOW INTO THE SURROUNDING ROCK FORMATION WILL BE EXPERIENCED DURING EXCAVATION, AND IS TYPICAL IN THIS AREA. THE CONTRACTOR SHALL TAKE THIS INTO ACCOUNT IN HIS BID.
14. THE MINIMUM 28-DAY GROUT STRENGTH FOR ALL PILES SHALL BE 5,500 POUNDS PER SQUARE INCH (PSI).
15. AUTOMATED MONITORING EQUIPMENT (AME) DATA IS TO BE SUBMITTED TO FDOT IN ELECTRONIC FORM, TRANSFERABLE TO EXCEL, WITHIN 24 HOURS OF PILE INSTALLATION.
16. ELEVATIONS ARE WITH RESPECT TO NGVD29 DATUM.
17. ACIP PILES TO BE INSTALLED TO EXISTING GRADE ELEVATION AND CUT TO FINAL ELEVATIONS IN ACCORDANCE WITH ACIP INSTALLATION PLAN.
18. SIX (6) PAIR OF STRAIN GAUGES TO BE INSTALLED AT VARYING DEPTHS WITHIN THE COMPRESSION TEST PILES/DEMONSTARTION PILES.

BRIDGE NO. 874185

MDC032

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REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: PILE DATA TABLE

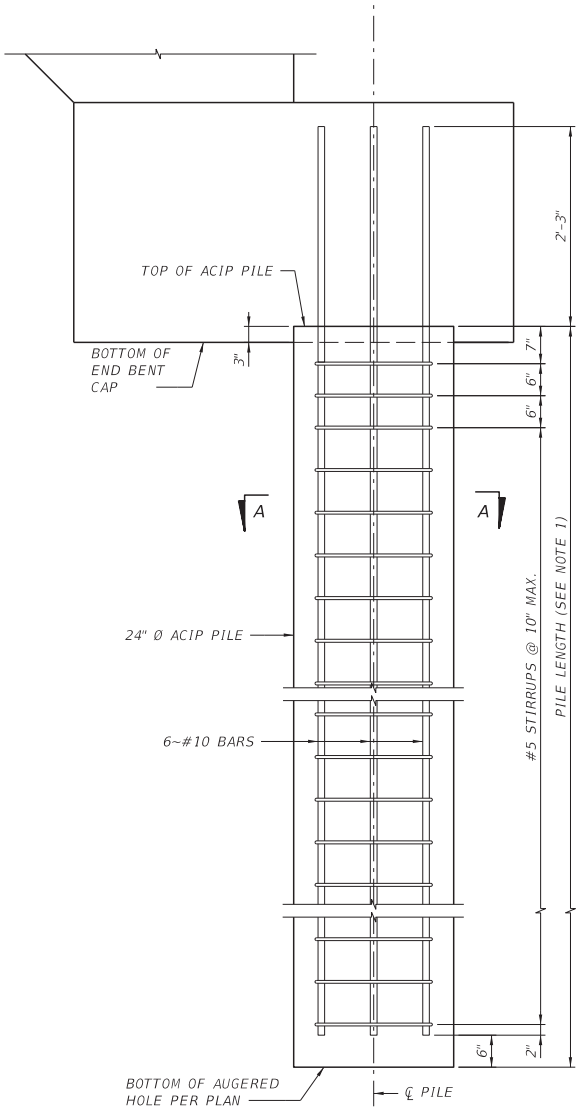
REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

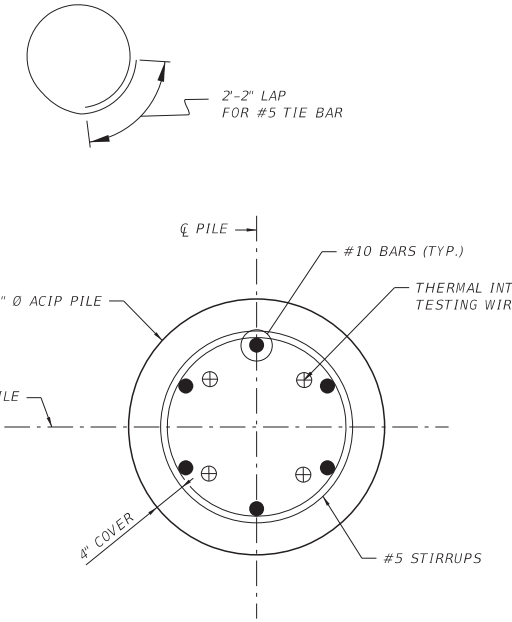
SHEET NO.: B1-11

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MDC033



ELEVATION



SECTION A-A

NOTES:

1. FOR PILE LENGTH TABLES, SEE PILE DATA TABLES.
2. FOR ELEVATIONS AT THE TOP AND TIP OF THE ACIP PILES, SEE PILE DATA TABLE.
3. USE GRADE 75, 2205 STAINLESS REINFORCING STEEL FOR AUGER CAST PILE REBARS.

BRIDGE NO. 874185

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

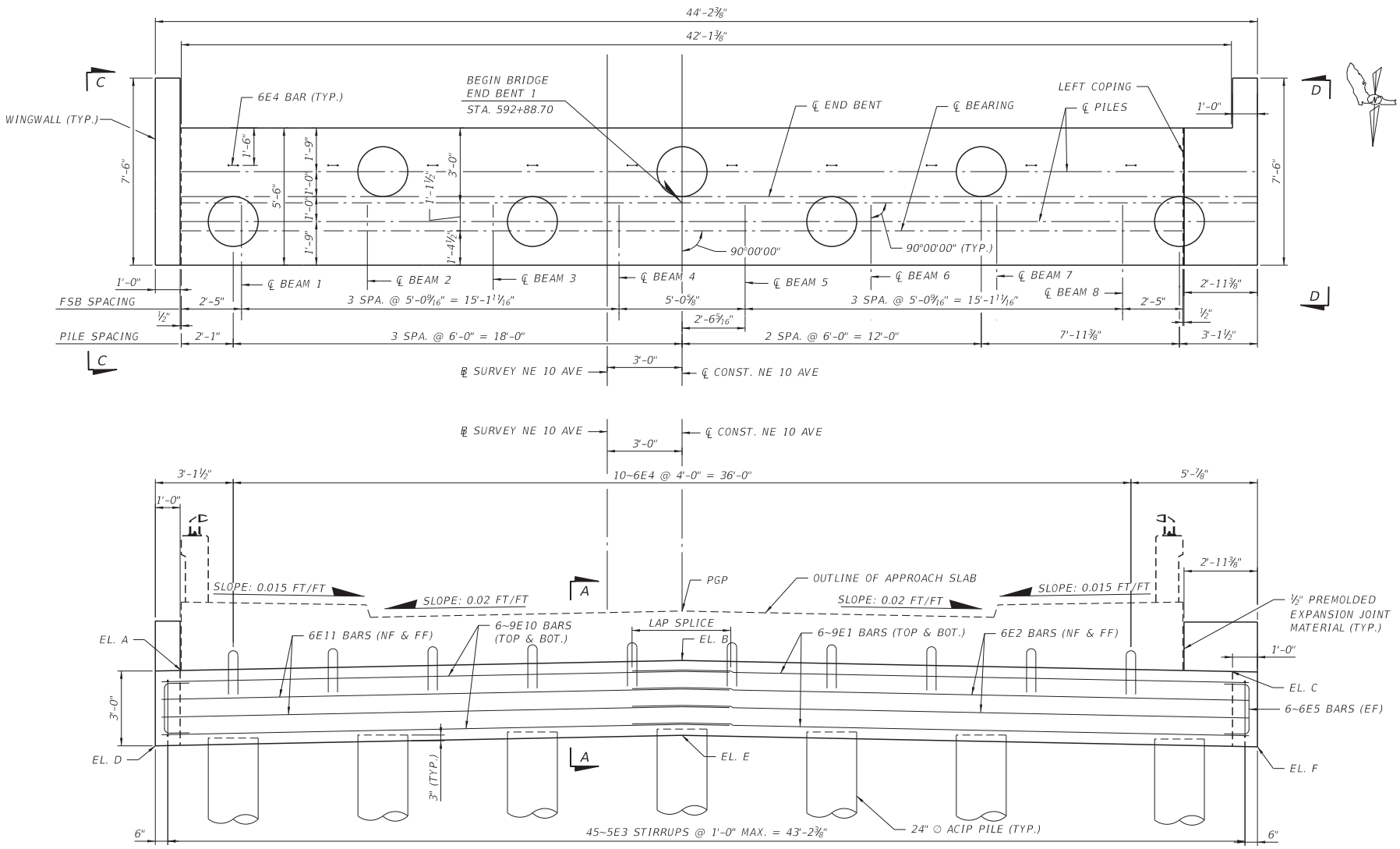
SHEET TITLE: ACIP PILE DETAILS

REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-12

ssadough 1/28/2022 4:10:38 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str



NOTES:

1. FOR SECTION A-A, VIEWS C-C & D-D, AND TABLE OF ELEVATIONS, SEE SHEET B1-15.
2. FOR PILE LOADS AND PILE CUT OFF ELEVATIONS, SEE SHEET B1-11.
3. FOR REINFORCING BAR LIST, SEE SHEET B1-22.
4. MINIMUM LAP: #6 = 2'-7"
   #9 = 4'-0"

ELEVATION

BRIDGE NO. 874185

MDC034

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(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

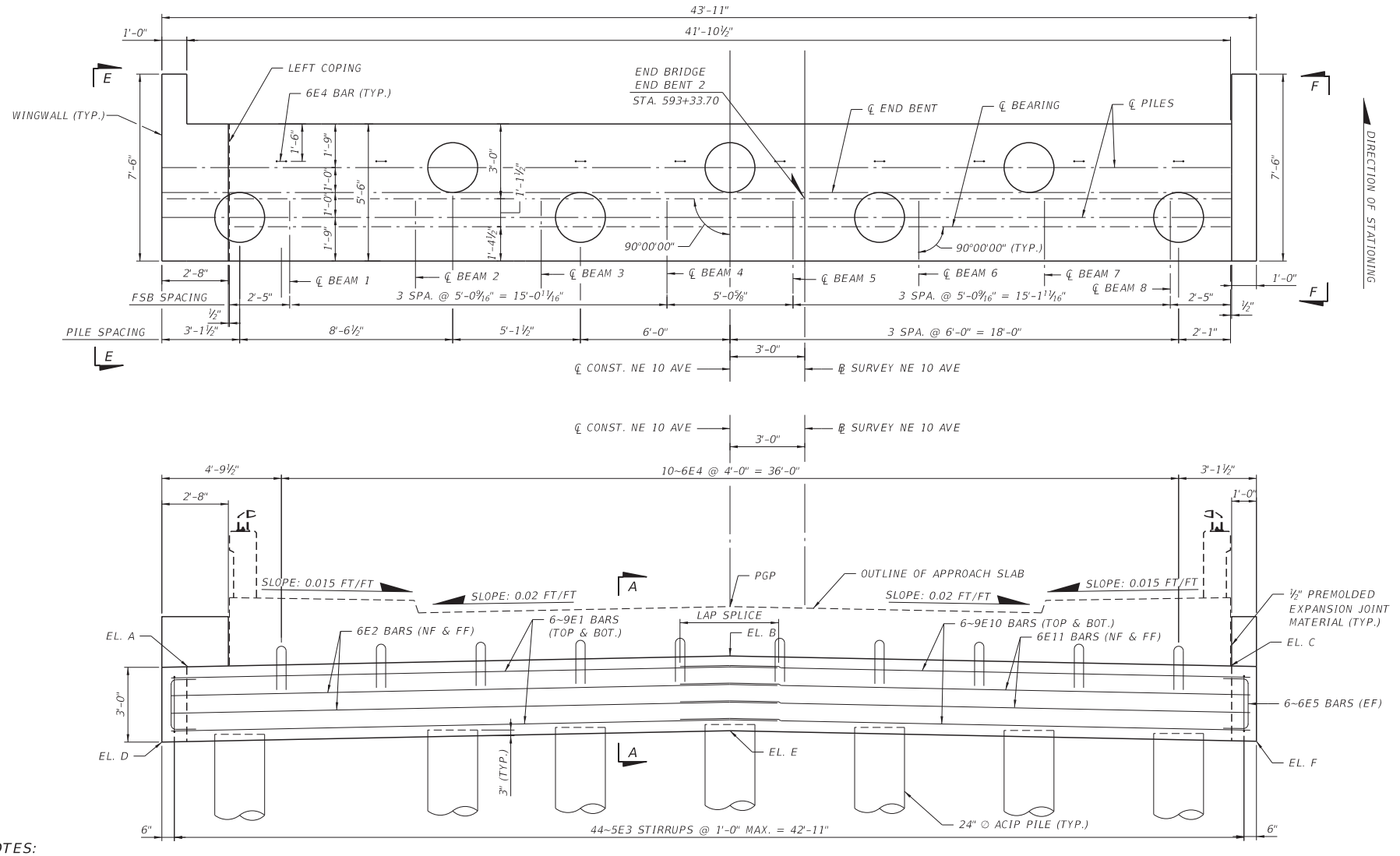
SHEET TITLE: END BENT 1

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-13

ssadough 1/28/2022 4:10:39 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str



ELEVATION

MDC035

NOTES:

1. FOR SECTION A-A, VIEWS E-E & F-F, AND TABLE OF ELEVATIONS, SEE SHEET B1-15.
2. FOR PILE LOADS AND PILE CUT OFF ELEVATIONS, SEE SHEET B1-11.
3. FOR REINFORCING BAR LIST, SEE SHEET B1-22.
4. MINIMUM LAP: #6 = 2'-7"
   #9 = 4'-0"

BRIDGE NO. 874185

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: END BENT 2

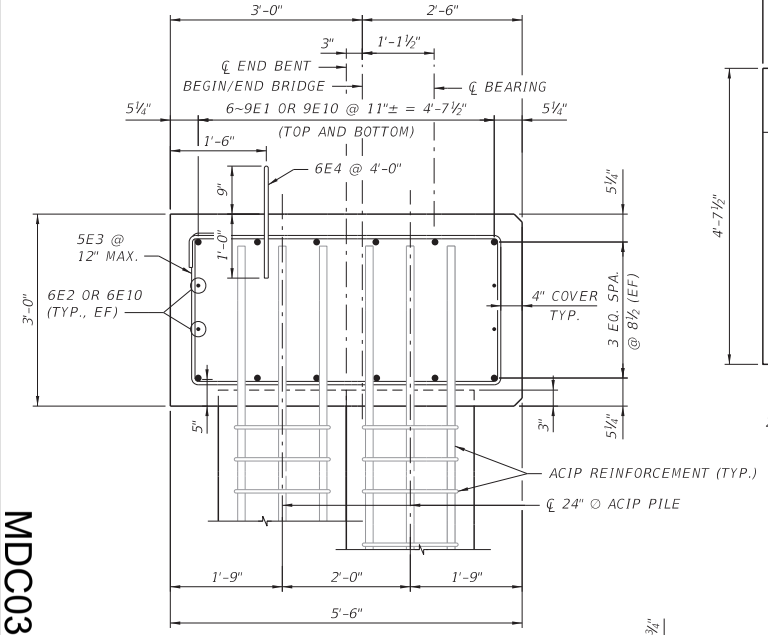
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PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

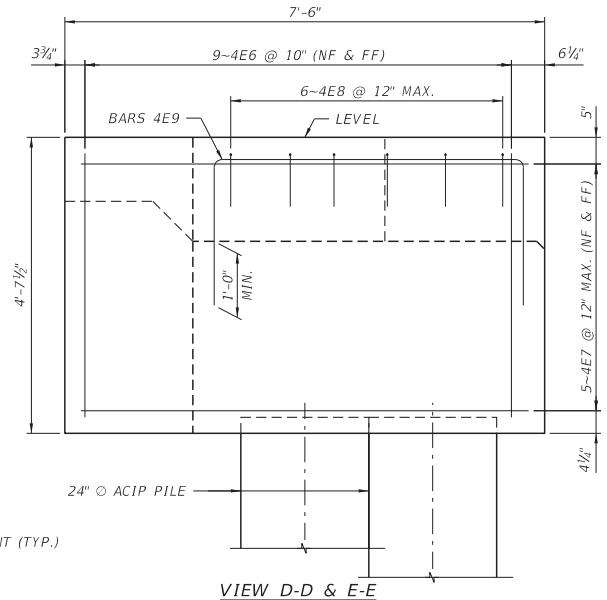
SHEET NO. B1-14

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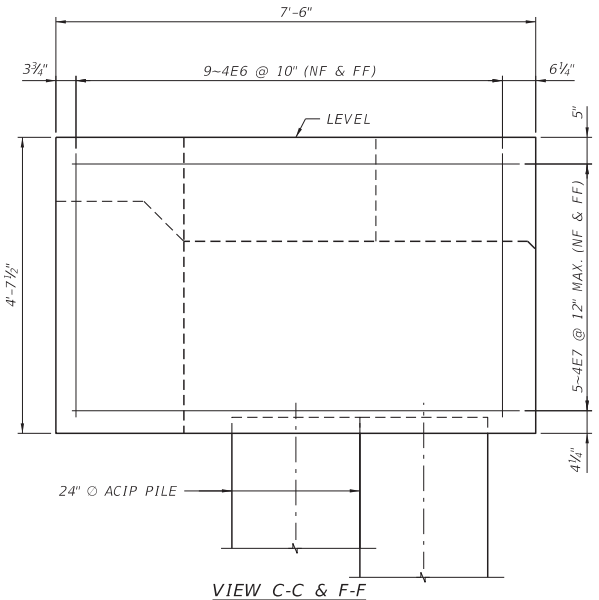
MDC036



SECTION A-A



VIEW D-D & E-E
(WINGWALL LT SIDE)
(VIEW E-E SHOWN, VIEW D-D SIMILAR OPPOSITE HAND)

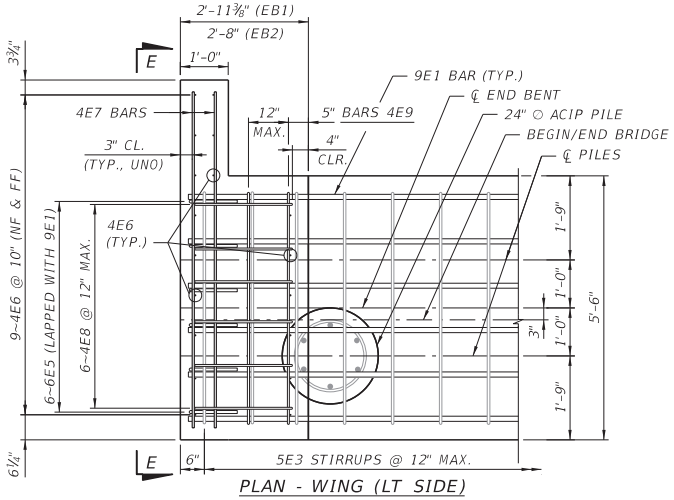


VIEW C-C & F-F
(WINGWALL RT SIDE)
(VIEW C-C SHOWN, VIEW F-F SIMILAR OPPOSITE HAND)

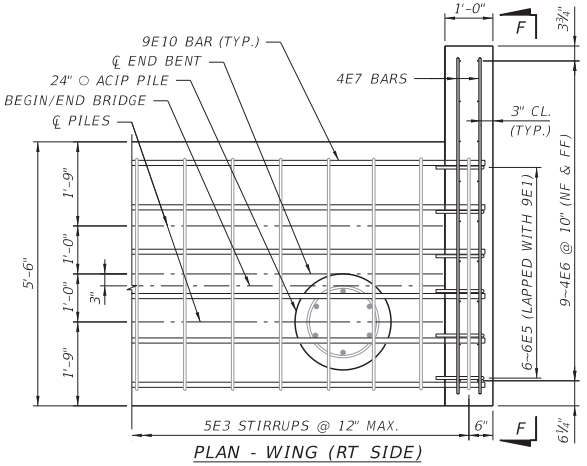
TABLE OF END BENT ELEVATIONS		
LOCATION	END BENT 1	END BENT 2
EL. A	5.190	5.208
EL. B	5.592	5.643
EL. C	5.151	5.241
EL. D	2.170	2.188
EL. E	2.592	2.643
EL. F	2.131	2.221

NOTE:

FOR LOCATION OF SECTION A-A, VIEWS C-C AND D-D, AND ELEVATION POINTS, SEE SHEETS 'B1-13' & 'B1-14'.



PLAN - WING (LT SIDE)
(END BENT 2 SHOWN. END BENT 1 SIMILAR)
(BARS 5E3 SHOWN IN GRAY FOR CLARITY)



PLAN - WING (RT SIDE)
(END BENT 2 SHOWN. END BENT 1 SIMILAR)
(BARS 5E3 SHOWN IN GRAY FOR CLARITY)

BRIDGE NO. 874185

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REVISIONS

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ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY:	EZ 07-20
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DESIGNED BY:	SS 07-20
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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

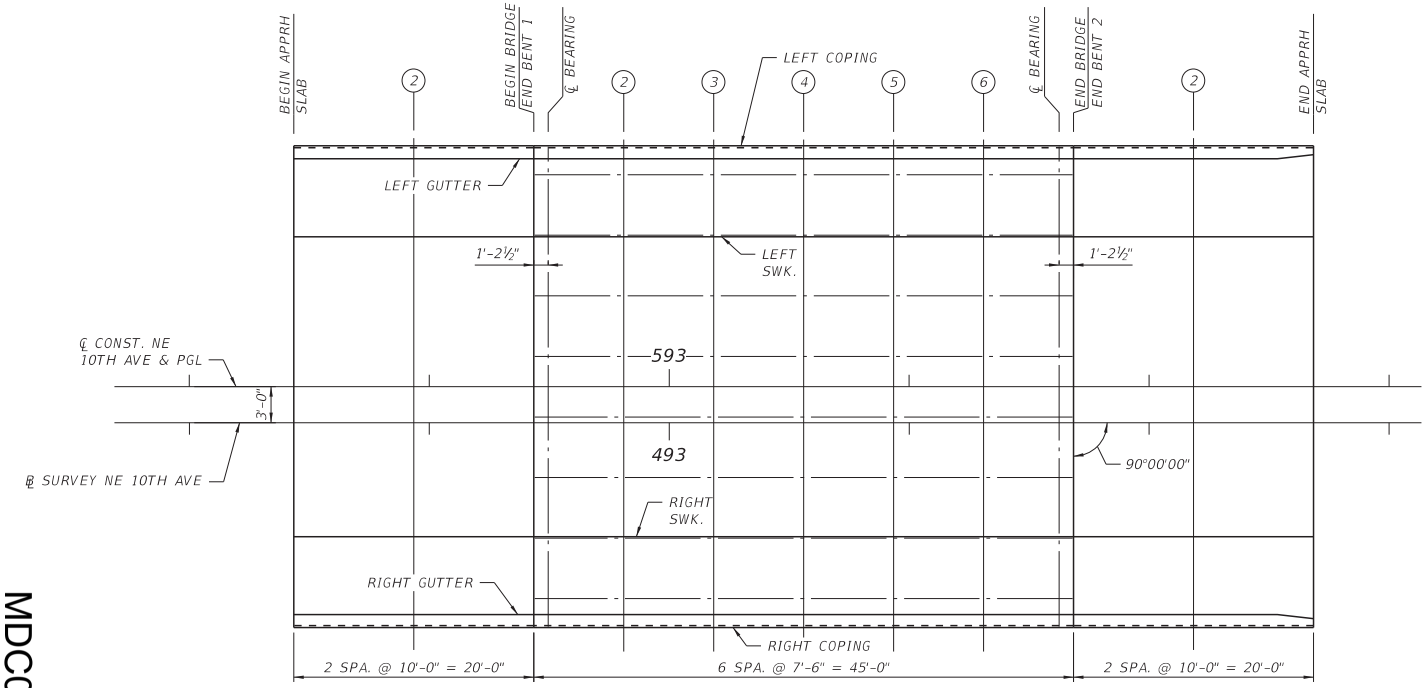
SHEET TITLE: END BENT DETAILS

REF. DWG. NO.

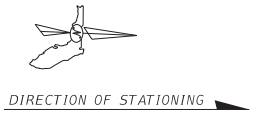
PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-15

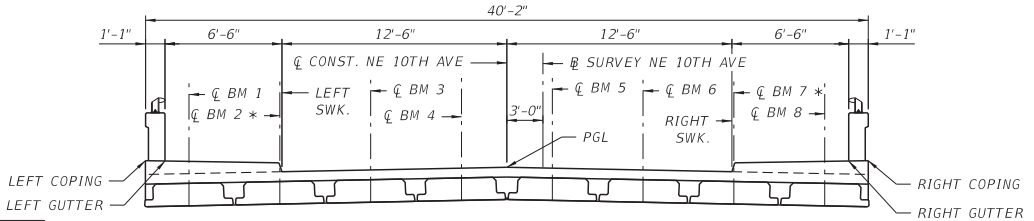
ssadough 1/28/2022 4:10:41 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str



PLAN



* FINISH GRADE ELEVATION AT BEAMS 2 AND 7 GIVEN AT THE DECK ELEVATION AND NOT THE RAISED SIDEWALK FINISHED GRADE.



LOCATION OF ELEVATIONS

FINISH GRADE ELEVATIONS									
	SPAN 1								
LOCATION	BEGIN BRIDGE END BENT 1	CL BEARING	2	3	MID-SPAN 4	5	6	CL BEARING	END BRIDGE END BENT 2
LEFT COPING	7.013	7.018	7.042	7.063	7.077	7.082	7.079	7.071	7.069
LEFT GUTTER	7.034	7.040	7.064	7.085	7.098	7.104	7.101	7.093	7.091
BEAM 1	7.066	7.071	7.095	7.117	7.130	7.135	7.133	7.124	7.122
BEAM 2	7.167	7.172	7.196	7.217	7.231	7.236	7.234	7.225	7.223
BEAM 3	7.268	7.273	7.297	7.318	7.332	7.337	7.335	7.326	7.324
BEAM 4	7.369	7.374	7.398	7.419	7.433	7.438	7.436	7.427	7.425
PGL	7.419	7.425	7.449	7.470	7.483	7.489	7.486	7.478	7.476
BEAM 5	7.369	7.374	7.398	7.419	7.433	7.438	7.436	7.427	7.425
BEAM 6	7.268	7.273	7.297	7.318	7.332	7.337	7.335	7.326	7.324
BEAM 7	7.167	7.172	7.196	7.217	7.231	7.236	7.234	7.225	7.223
BEAM 8	7.066	7.071	7.095	7.117	7.130	7.135	7.133	7.124	7.122
RIGHT GUTTER	7.034	7.040	7.064	7.085	7.098	7.104	7.101	7.093	7.091
RIGHT COPING	7.013	7.018	7.042	7.063	7.077	7.082	7.079	7.071	7.069

FINISH GRADE ELEVATIONS						
	APPROACH SLAB 1			APPROACH SLAB 2		
LOCATION	BEGIN APPR. SLAB 1	2	BEGIN BRIDG END BENT 1	END BRIDGE END BENT 4	2	END APPR. SLAB 1
LEFT COPING	6.896	6.961	7.013	7.069	7.042	7.002
LEFT GUTTER	6.917	6.983	7.034	7.091	7.064	7.023
PGL	7.302	7.368	7.419	7.476	7.449	7.408
RIGHT GUTTER	6.917	6.983	7.034	7.091	7.064	7.023
RIGHT COPING	6.896	6.961	7.013	7.069	7.042	7.002

BRIDGE NO. 874185

MDC037

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REVISIONS

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ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: FINISH GRADE ELEVATIONS

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-16

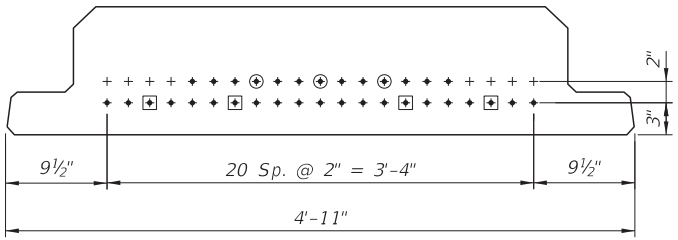
ssadough 1/28/2022 4:10:42 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str

FLORIDA SLAB BEAM - TABLE OF VARIABLES

Table Date 01-01-16

LOCATION		BEAM TYPE	CONCRETE PROPERTIES			STND. PTRN.	PLAN VIEW CASE		ANGLE Ø		BEAM DIMENSIONS*			REINFORCING STEEL															
				STRENGTHS (psi)										3C		4D1	4D2	4D3		5E1		5E2		6Y1	6Y2	4K	NO. OF BAR SPACES		BAR SPACING*	
SPAN NO.	BEAM NO.		CLASS	28 Day	Release	TYPE	END 1	END 2	END 1	END 2	DIM W	DIM L	DIM R	NO.	DIM C	DIM D	DIM D	NO.	DIM D	NO.	DIM E	NO.	DIM E	DIM Y	DIM Y	NO.	S1	S2	V1	V2
1	1-8	FSB 15X59	V1	8500	6000	1	1	1	90°	90°	4'-11"	43'-8½"	½"	45	4'-6½"	2'-5½"	2'-5½"	36	2'-5½"	87	4'-9"	87	4'-7½"	3'-6½"	3'-6½"	148	6	11	9"	1'-6"

NOTE: WORK THIS SHEET WITH STANDARD PLAN INDEX 450-450 THRU 450-453.



TYPE (1) 34 STRANDS

STRAND DESCRIPTION: USE 0.60" DIAMETER, GRADE 270, LOW RELAXATION CARBON STEEL STRANDS STRESSED AT 44.0 KIPS EACH. AREA PER STRAND EQUALS 0.217 SQ. IN.

STRAND PATTERNS

STRAND DEBONDING LEGEND

- • - FULLY BONDED STRANDS.
- ⊙ - STRANDS DEBONDED 4'-0" FROM END OF BEAM.
- ⊡ - STRANDS DEBONDED 6'-0" FROM END OF BEAM.

NOTE: ON BEAMS WITH SKEWED ENDS THE DEBONDED LENGTH SHALL BE MEASURED ALONG THE DEBONDED STRAND.

DIMENSION NOTES

* ALL LONGITUDINAL BEAM DIMENSIONS SHOWN ON THIS SHEET WITH A SINGLE ASTERISK (*) ARE MEASURED ALONG THE TOP OF BEAM AT THE CENTERLINE. DIMENSION "R" IS CALCULATED AT MID-HEIGHT OF THE BEAM.

BRIDGE NO. 874185

MDC038

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PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: BEAM TABLE OF VARIABLES

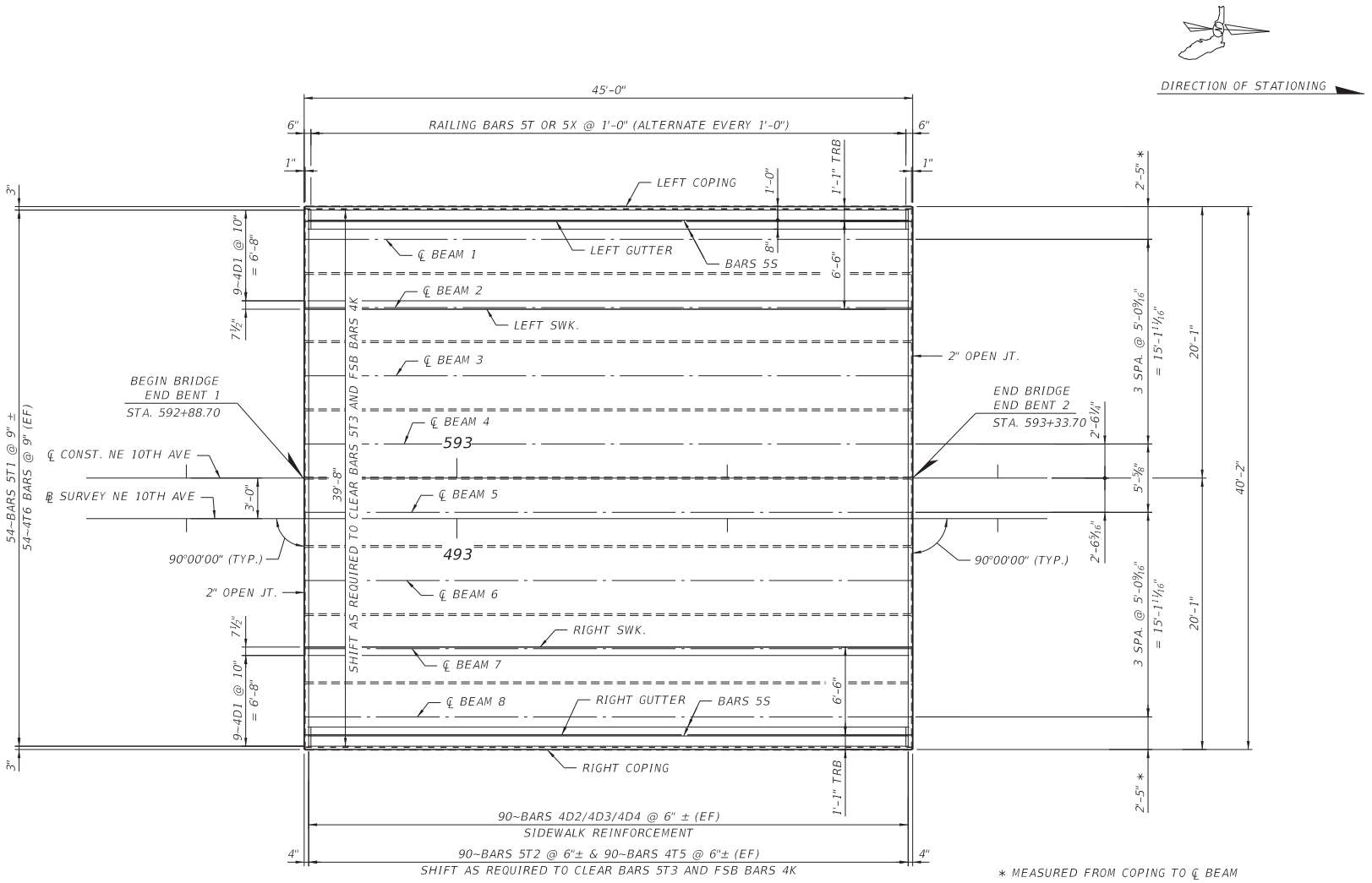
REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-17

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MDC039



PLAN

(BARS 5T3 AND 5T4 AT POCKETS BETWEEN BEAMS NOT SHOWN)

BRIDGE NO. 874185

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

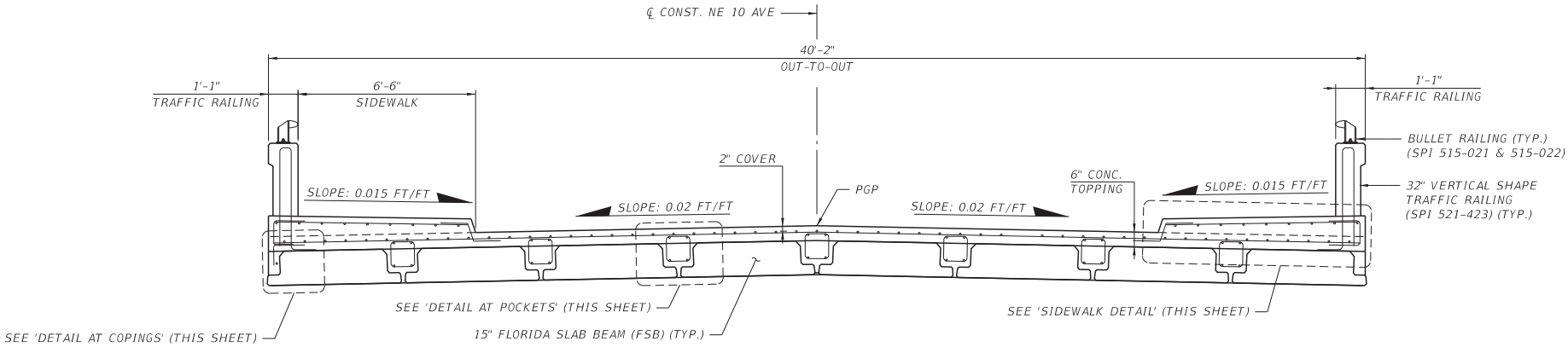
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: SUPERSTRUCTURE PLAN

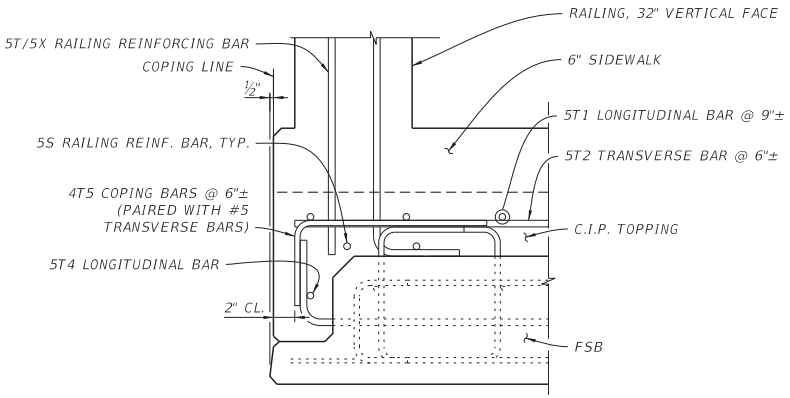
REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-18

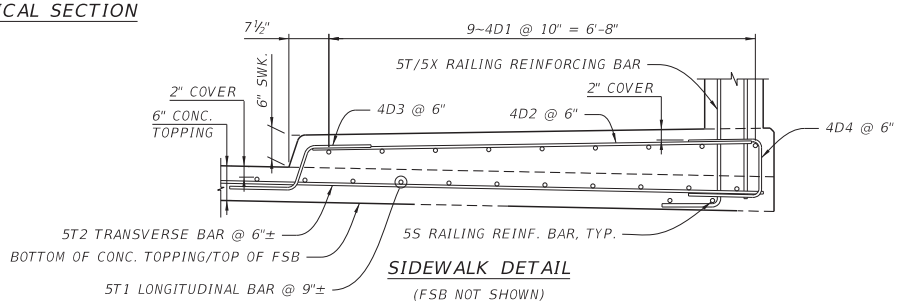


TYPICAL SECTION



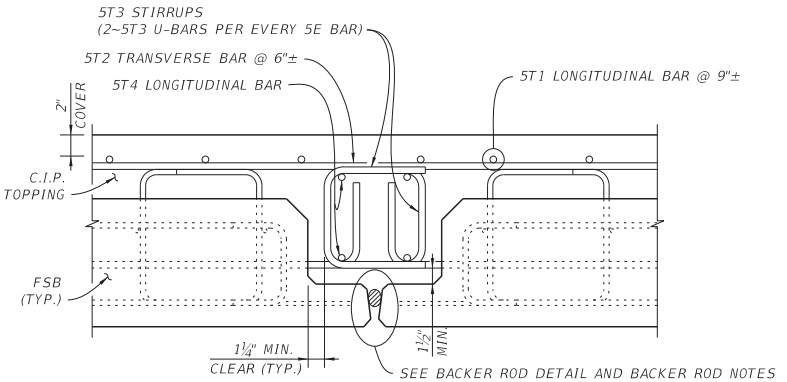
DETAIL AT COPINGS

(SIDEWALK REINFORCEMENT NOT SHOWN)



SIDEWALK DETAIL

(FSB NOT SHOWN)



DETAIL AT POCKETS

NOTE:

USE STAINLESS STEEL REBAR
FOR BARS 5T3, 3C, & 5E

BRIDGE NO. 874185

MDC040

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
CHECKED BY: SS 07-20
DESIGNED BY: SS 07-20
CHECKED BY: RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

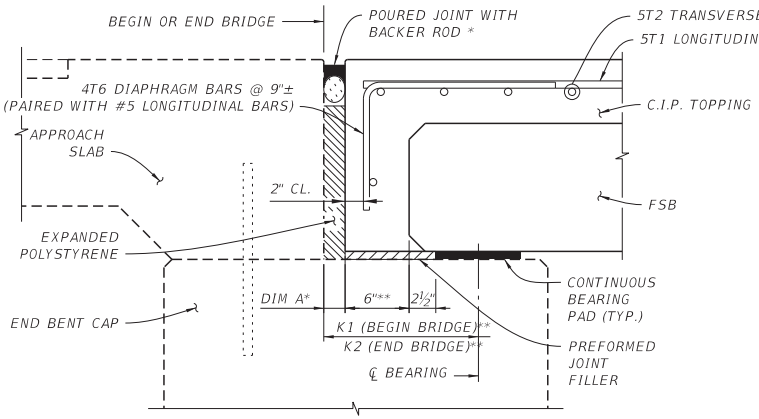
SHEET TITLE: SUPERSTRUCTURE SECTION

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-19

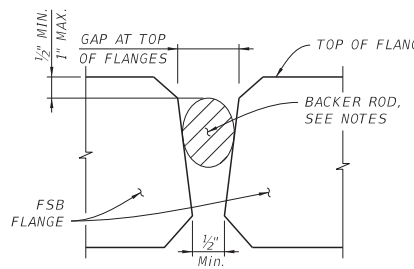
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DETAIL AT BEGIN/END BRIDGE ALONG ℄ BEAM

(REINFORCING WITHIN FSB NOT SHOWN FOR CLARITY)

* SEE POURED EXPANSION JOINT DATA TABLE (THIS SHEET) & INDEX NO. 458-110.
** MEASURED PERPENDICULAR TO BEAM END.



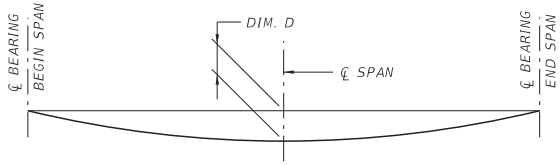
BACKER ROD DETAIL

BACKER ROD NOTES:

1. USE A BACKER ROD TO FORM THE BOTTOM OF THE CAST IN PLACE TOPPING AT THE GAP BETWEEN ADJACENT FSBS. USE A BACKER ROD MEETING THE REQUIREMENTS OF ASTM C1330 OR ASTM D5249, TYPES 1 OR 3, WITH A MINIMUM UNCOMPRESSED DIAMETER 50% LARGER THAN THE FIELD VERIFIED MAXIMUM WIDTH OF THE GAP BETWEEN ADJACENT FSBS. MEASURE GAP AT THE TOP OF THE FLANGES AS SHOWN IN THE BACKER ROD DETAIL.
2. INSTALL THE BACKER ROD FROM THE TOP DOWN TO THE POSITION SHOWN IN THE BACKER ROD DETAIL.
3. SECURE THE BACKER ROD TO PREVENT DISPLACEMENT DURING TOPPING CONCRETE PLACEMENT AND TO BE MORTAR TIGHT USING A COMPATIBLE CONSTRUCTION ADHESIVE.
4. THE BACKER ROD MAY REMAIN IN PLACE AFTER TOPPING CONCRETE PLACEMENT.

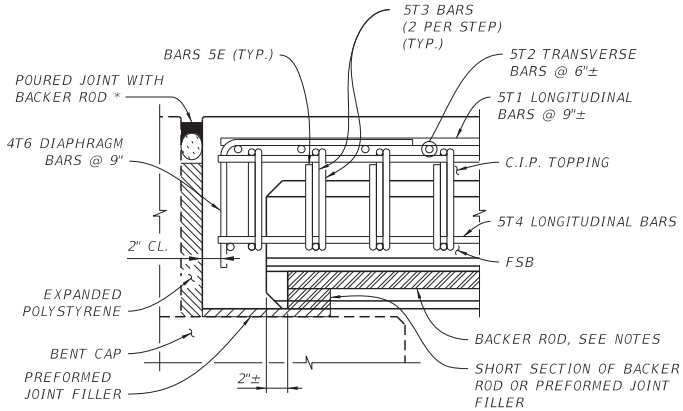
CAMBER NOTE:

THE VALUES GIVEN IN THE TABLE ARE BASED ON THEORETICAL BEAM CAMBERS. THE CONTRACTOR SHALL MONITOR BEAM CAMBERS FOR THE PURPOSE OF PREDICTING CAMBER VALUES AT THE TIME OF THE TOPPING CASTING. IF THE PREDICTED CAMBERS BASED ON FIELD MEASUREMENTS DIFFER MORE THAN ± ½" FROM THE THEORETICAL "NET BEAM CAMBER @ 120 DAYS" SHOWN IN THE TABLE, PROPOSE MODIFIED DIMENSIONS AS REQUIRED AND SUBMIT TO THE ENGINEER FOR APPROVAL A MINIMUM OF 21 DAYS PRIOR TO CASTING TOPPING CONCRETE.

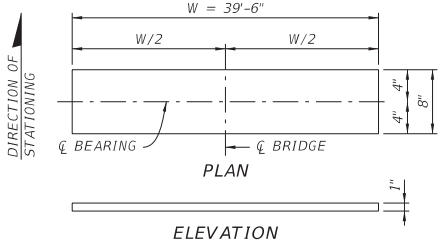


DEAD LOAD DEFLECTION DIAGRAM

CAMBER AND DEFLECTION DATA TABLE FOR FLORIDA SLAB BEAMS			Table Date 1-01-16
LOCATION		NET BEAM CAMBER (PRESTRESS - DEAD LOAD OF BEAM) @ 120 DAYS (IN.)	DIM. D DEAD LOAD DEFLECTION DUE TO TOPPING CASTING @ 120 DAYS (IN.)
SPAN NO.	BEAM NO.		
1	1 & 8	2⅜"	½"
1	2 THRU 7	2⅜"	9/16"



SECTION ALONG ℄ POCKET AT SPAN ENDS



CONTINUOUS BEARING PAD DETAIL

FSB BEARING PAD NOTE:

PROVIDE PLAIN ELASTOMERIC BEARING PADS WITH A SHEAR MODULUS G = 110 PSI AND IN ACCORDANCE WITH SPECIFICATION 932.

POURED EXPANSION JOINT DATA TABLE INDEX 458-110			Table Date 1-01-09
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F
END BENT 1	1"	⅜"	1/32"
END BENT 2	1"	⅜"	1/32"

NOTE:
DIM. "A" ADJUSTMENT PER 10°F SHOWN IS MEASURED PERPENDICULAR TO ℄ EXPANSION JOINT. WORK THIS TABLE WITH STANDARD PLANS INDEX 458-110.

BRIDGE NO. 874185

MDC041

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SUNRISE, FL 33326
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SOHEILA SADOUGH, PE; LIC. NO. 44130

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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

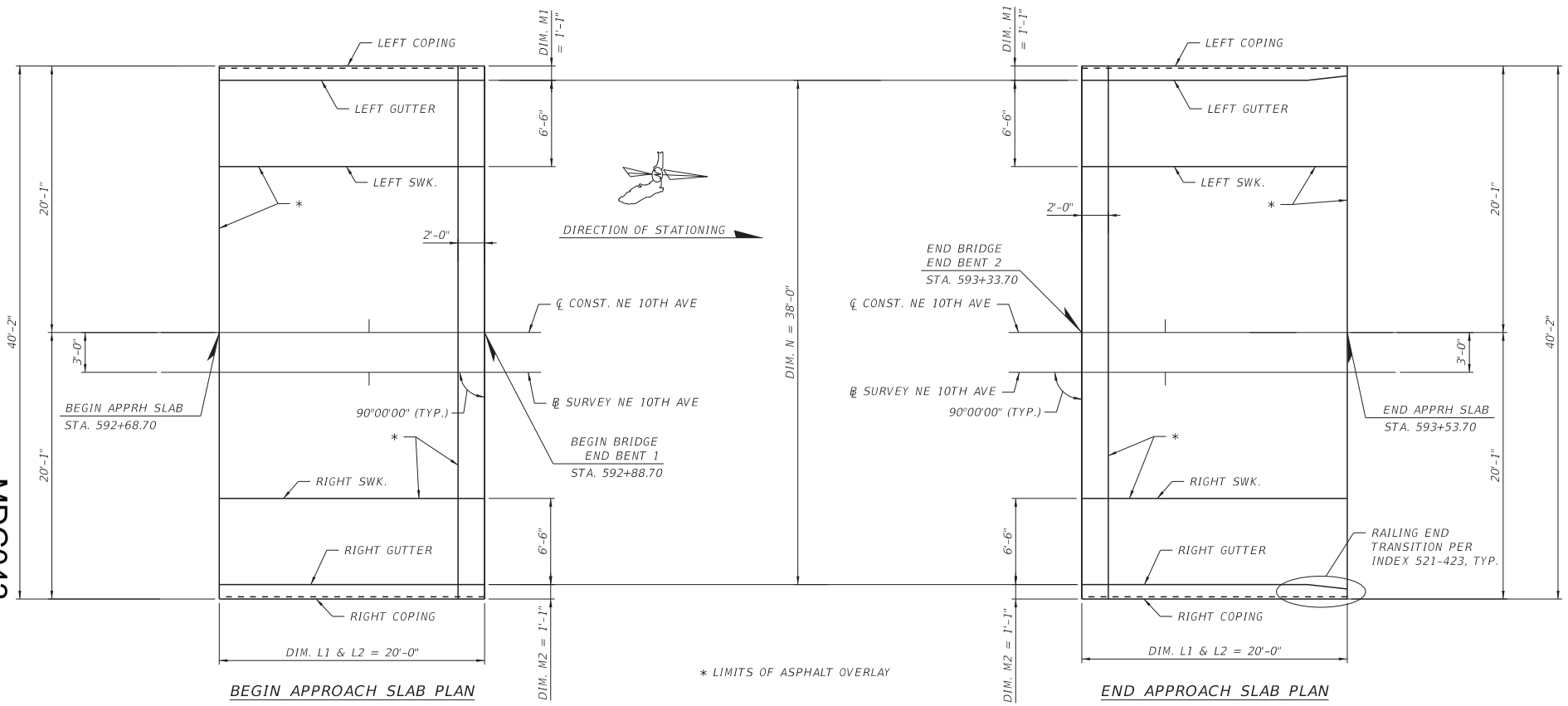
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: SUPERSTRUCTURE DETAILS

REF. DWG. NO.:

PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO.: B1-20



BEGIN APPROACH SLAB PLAN

* LIMITS OF ASPHALT OVERLAY

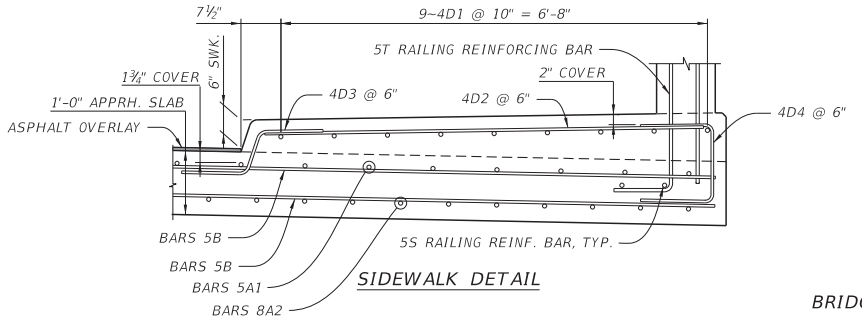
END APPROACH SLAB PLAN

MDC042

NOTE: WORK THIS DATA TABLE WITH DEVELOPMENTAL STANDARD PLANS INDEX D20920

APPROACH SLAB TABLE OF DIMENSIONS						Table Date 11-01-16
LOCATION	DIMENSIONS					ANGLE Ø
	L1	L2	M1	M2	N	
BEGIN APPROACH SLAB	20'-0"	20'-0"	1'-1"	1'-1"	38'-0"	90°
END APPROACH SLAB	20'-0"	20'-0"	1'-1"	1'-1"	38'-0"	90°

DIMENSION NOTES:
DIMENSIONS L1 & L2 ARE MEASURED ALONG GUTTER LINE, INSIDE FACE OF PARAPET OR INSIDE FACE OF RAILING ON RAISED SIDEWALKS.



SIDEWALK DETAIL

BRIDGE NO. 874185

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ASA CONSULTANTS, INC.
510 SHOTGUN ROAD, SUITE 402
SUNRISE, FL 33326
(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY:	EZ 07-20
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DESIGNED BY:	SS 07-20
CHECKED BY:	RA 07-20

MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: APPROACH SLAB DETAILS

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-21

ssadough 1/28/2022 4:10:46 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str

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MDC043

END BENT 1 (No. REQUIRED= 1)

MARK		LENGTH		NO	TYP	STY		B			C			D			E			F			H			J			N	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
9	E1	24	9	12	12			22	9		2	0																		4.0
6	E2	24	3	4	12			22	9		1	6																		4.0
5	E3	15	4	45	4	4	4	2	4		4	10																		
6	E4	3	10	10	23			1	6		0	6		1	6															
6	E5	4	3	12	11			2	2.5		1	0		1	0															
4	E6	4	0	36	1			4	0																					
4	E7	7	0	20	1			7	0																					
4	E8	3	11	6	11			2	3		0	10		0	10															
4	E9	9	6	2	11			4	10		2	4		2	4															
9	E10	22	10	12	12			20	9.5		2	0																		4.0
6	E11	22	4	4	12			20	9.5		1	6																		4.0

END BENT 2 (No. REQUIRED= 1)

MARK		LENGTH		NO	TYP	STY		B			C			D			E			F			H			J			N	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
9	E1	24	6	12	12			22	6		2	0																		4.0
6	E2	24	0	4	12			22	6		1	6																		4.0
5	E3	15	4	44	4	4	4	2	4		4	10																		
6	E4	3	10	10	23			1	6		0	6		1	6															
6	E5	4	3	12	11			2	2.5		1	0		1	0															
4	E6	4	0	36	1			4	0																					
4	E7	7	0	20	1			7	0																					
4	E8	3	8	6	11			2	0		0	10		0	10															
4	E9	9	6	2	11			4	10		2	4		2	4															
9	E10	22	10	12	12			20	9.5		2	0																		4.0
6	E11	22	4	4	12			20	9.5		1	6																		4.0

SUPERSTRUCTURE (No. REQUIRED= 1)

MARK		LENGTH		NO	TYP	STY		B			C			D			E			F			H			J			N	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
5	T1	44	8	54	1			44	8																					
5	T2	39	10	90	1			39	10																					
5	T3	2	7	1218	11			1	0		0	9.5		0	9.5															
5	T4	44	8	30	1			44	8																					
4	T5	2	5	180	11			1	6		0	11																		
4	T6	2	9	108	11			1	6		1	3																		
4	D1	19	8	18	1			19	8																					
4	D2	5	8	180	1			5	8																					
4	D3	2	8	180	28			1	0		1	0		0	3		0	7												
4	D4	2	9	180	13			0	9		1	0		1	0														91.5	92

APPROACH SLAB 1 & 2 (No. REQUIRED= 2)

MARK		LENGTH		NO	TYP	STY		B			C			D			E			F			H			J			N	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
5	A1	19	8	41	1			19	8																					
8	A2	19	8	55	1			19	8																					
5	B	39	10	48	1			39	10																					
4	D1	19	8	18	1			19	8																					
4	D2	5	8	80	1			5	8																					
4	D3	2	8	80	28			1	0		1	0		0	3		0	7												
4	D4	3	0	80	13			1	0		1	0		1	0														91.5	92

BRIDGE NO. 874185

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(754)-216-2027
SOHEILA SADOUGH, PE; LIC. NO. 44130

DRAWN BY: EZ 07-20
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MIAMI-DADE COUNTY
PUBLIC WORKS DEPARTMENT

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

SHEET TITLE: REINFORCING BAR LIST

REF. DWG. NO.

PROJECT NAME: NE 10TH AVENUE
FROM NE 83RD STREET TO NE 84TH STREET

SHEET NO. B1-22

ssadough 1/28/2022 4:10:47 PM H:\Miami-Dade County(EDP)\NE 10 Ave Bridge Replacement\03 CADD\EDP-MT-20190196\str

MDC044

Load Rating Summary Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder)

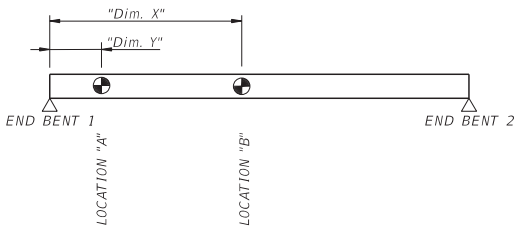
Table Date 07-01-15

Table 2 - LRFR

Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)					Shear (Strength)					Comments: Interior/exterior beam DF method if other than LRFD. Other appropriate comments
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.41	1.85	N/A	B	22.52	0.69	5.02	N/A	A	4.25	EXTERIOR FSB 1 & 8 (M)
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.41	2.40	N/A	B	22.52	0.69	6.51	N/A	A	4.25	EXTERIOR FSB 1 & 8 (M)
	Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.41	2.66	N/A	B	22.52	N/A	N/A	N/A	N/A	N/A	EXTERIOR FSB 1 & 8 (M)
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.41	1.75	93.0	B	22.52	0.69	4.55	254.7	A	4.25	EXTERIOR FSB 1 & 8 (M)

GENERAL NOTES:
1. THIS TABLE IS BASED ON THE REQUIREMENTS ESTABLISHED IN THE JANUARY 2021 "STRUCTURES MANUAL".

TABLE 2 NOTES [NOTES DATE 07-01-15]:
1. PERMIT CAPACITY IS DETERMINED BY USING THE PERMIT VEHICLE IN ALL LANES.
2. SERVICE III DESIGN INVENTORY TENSILE STRESS LIMITS = $3\sqrt{f'c}$ OR $6\sqrt{f'c}$.
3. HAS THE AASHTO LRFD SPECIFICATIONS ARTICLE 5.8.3.5 LONGITUDINAL REINFORCEMENT BEEN SATISFIED? ☒ YES ☐ NO
4. BRIDGE RATING PERFORMED USING FDOT LRFD PRESTRESSED BEAM PROGRAM v.5.2



RATING LOCATIONS

Abbreviations:

Inv - Inventory

Op - Operating

BRIDGE NO. 874185

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NE 10 AVE	MIAMI-DADE	EDP-MT-20190196

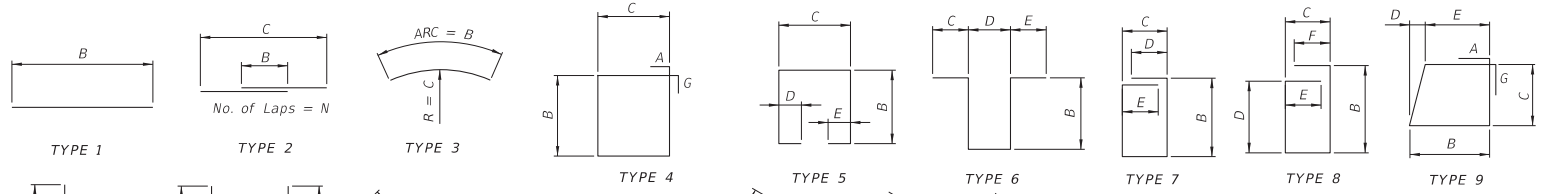
SHEET TITLE: LOAD RATING SUMMARY SHEET

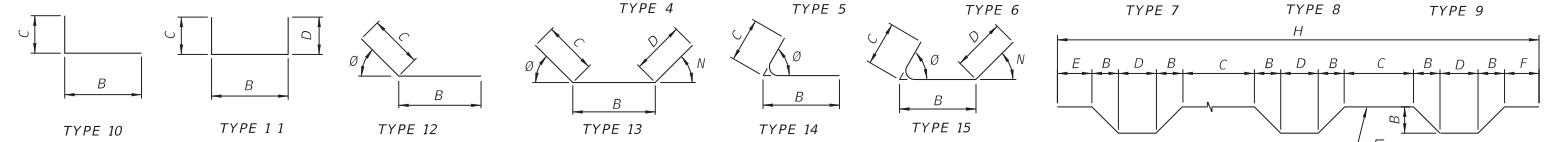
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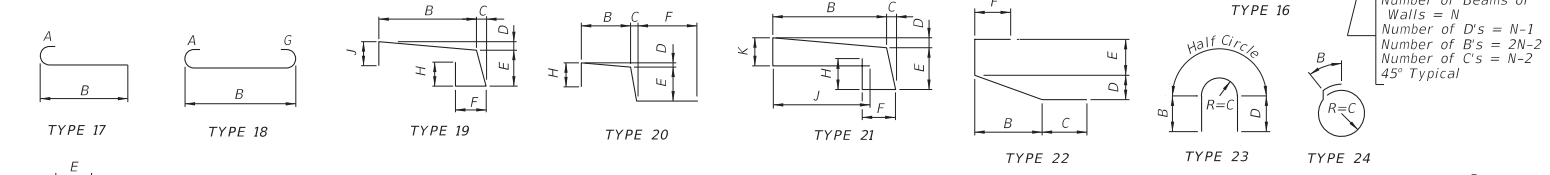
PROJECT NAME: NE 10TH AVENUE FROM NE 83RD STREET TO NE 84TH STREET

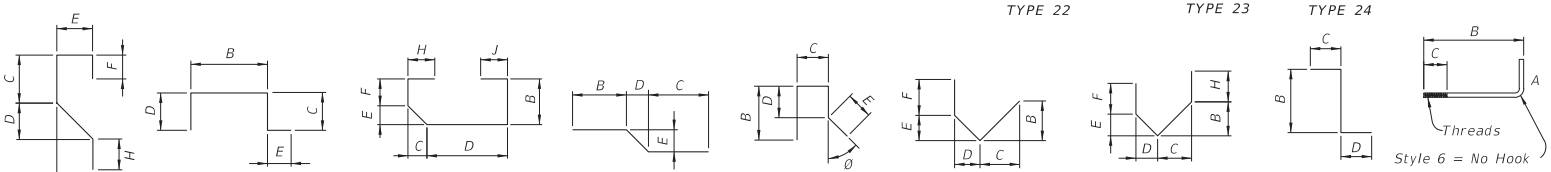
SHEET NO. B1-23

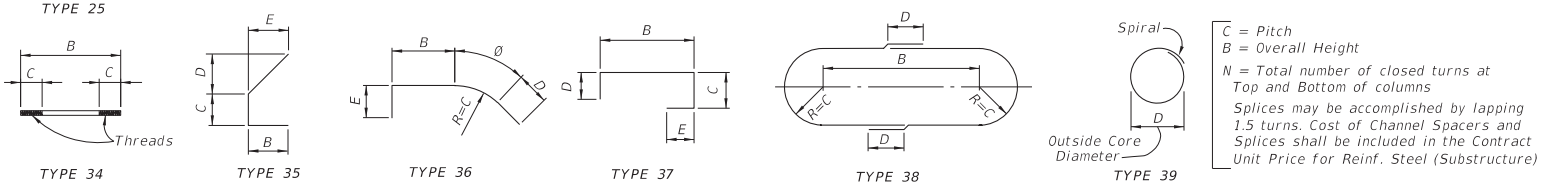
MDC045

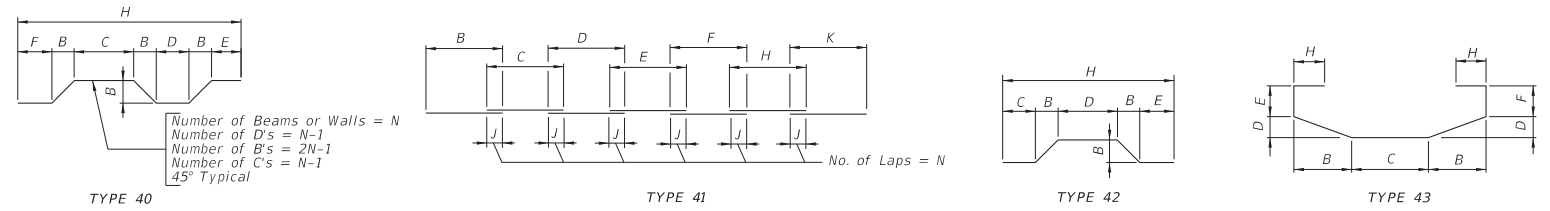






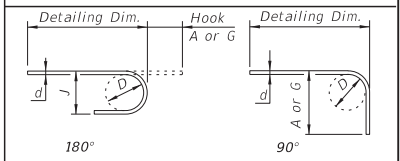




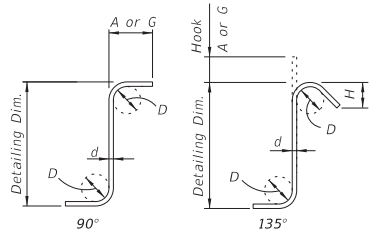


NOTE: For Bar Dimensions See REINFORCING BAR LIST Sheet(s) in Structures Plans.

HOOK DETAILS



BAR SIZE	D	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2¼"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3¾"	7"	5"	10"
#6	4½"	8"	6"	1'-0"
#7	5¼"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9½"	1'-3"	11¾"	1'-7"
#10	10¾"	1'-5"	1'-1¼"	1'-10"
#11	12"	1'-7"	1'-2¾"	2'-0"
#14	18¼"	2'-3"	1'-9¾"	2'-7"
#18	24"	3'-0"	2'-4½"	3'-5"
STYLE		1		3



STIRRUPS (TIES SIMILAR)

STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS	135° HOOKS	
		A or G	A or G	H *
#3	1½"	4"	4"	2½"
#4	2"	4½"	4½"	3"
#5	2½"	6"	5½"	3¾"
#6	4½"	1'-0"	8"	4½"
#7	5¼"	1'-2"	9"	5¼"
#8	6"	1'-4"	10½"	6"
STYLE		4	5	

STYLE 6 = NO HOOK

* Dimension is approximate.

Hook Styles Detailed on this sheet are for Illustration Only.

Actual Hook Style for any particular bar will be shown under A or G Heading on REINFORCING BAR LIST sheet(s) in Structures Plans.

All Dimensions are out-to-out.

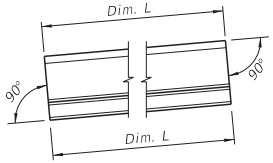
10/01/2020 10:40:39 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	BAR BENDING DETAILS (STEEL)	INDEX	SHEET
11/01/20						415-001	1 of 1

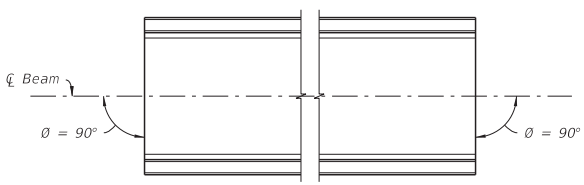
MDC046

FABRICATION NOTES

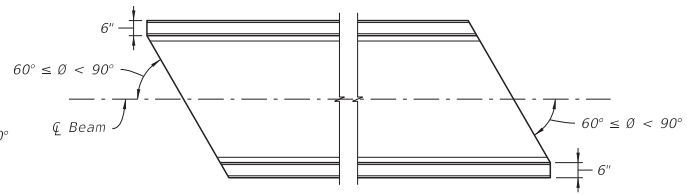
1. *The abbreviated FSB designation for depth and width is FSB "depth" x "width", e.g. FSB 12 x 48.*
2. *All bar dimensions are out-to-out.*
3. *Strands N shall be ASTM A416, Grade 250 or 270, $\frac{3}{8}$" Ø or larger strands, stressed to 10,000 lbs. each.*
4. *Unless otherwise noted, the minimum concrete cover for reinforcing steel shall be 2".*
5. *For referenced Dimensions, Angles and Case Numbers, see Florida Slab Beam – Table of Variables in Structures Plans.*
6. *Bars 4D1 & 6Y1 correspond to END 1, and 4D2 & 6Y2 correspond to END 2.*
7. *Bars 5E1 correspond to interior FSBs, and 5E2 correspond to exterior FSBs.*
8. *Rake the top surface of the Slab Beams transversely to provide a roughened surface with $\frac{1}{4}$" amplitude.*
9. *Embedment of Safety Line Anchorage Devices are permitted to accommodate full protection systems. See shop drawings for details and spacings.*



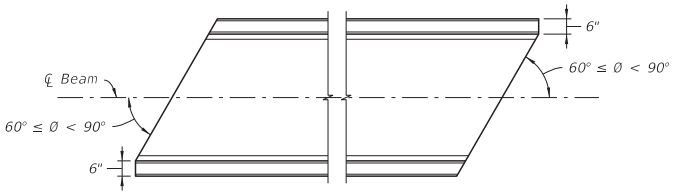
SCHEMATIC SIDE ELEVATION OF BEAM
(Beam on a Positive Grade shown; Beam on a Negative Grade or Horizontal Grade similar.)



CASE 1



CASE 2



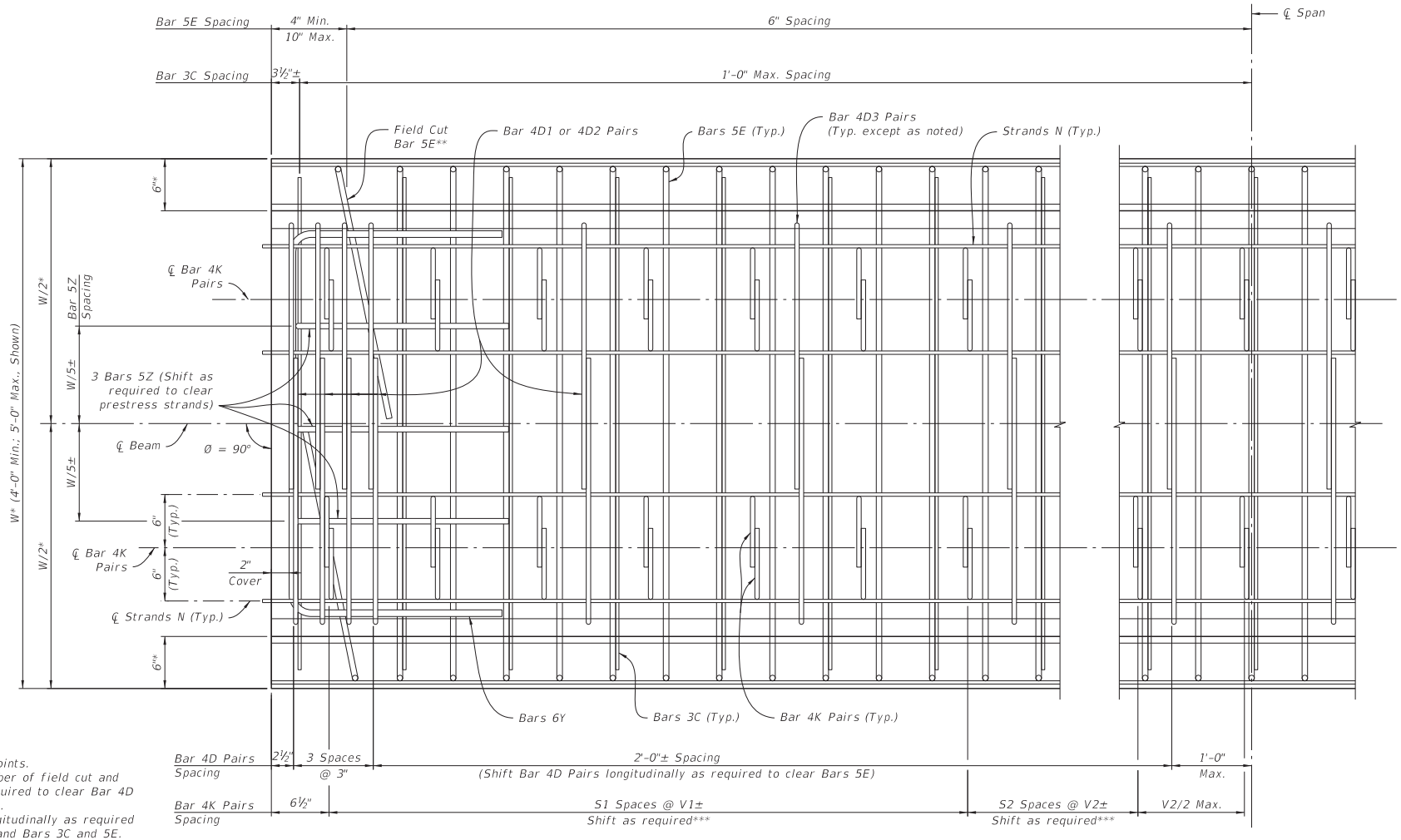
CASE 3

SCHEMATIC PLAN VIEWS AT BEAM ENDS

10/8/2020 10:33:17 AM

LAST REVISION	REVISION	DESCRIPTION:				
11/01/20			FDOT	FY 2021-22 STANDARD PLANS	FLORIDA SLAB BEAM TYPICAL DETAILS AND NOTES	INDEX 450-450 / SHEET 1 of 3

MDC047



* Measured to Working Points.
** At Beam ends, use number of field cut and rotated Bars 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.
*** Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

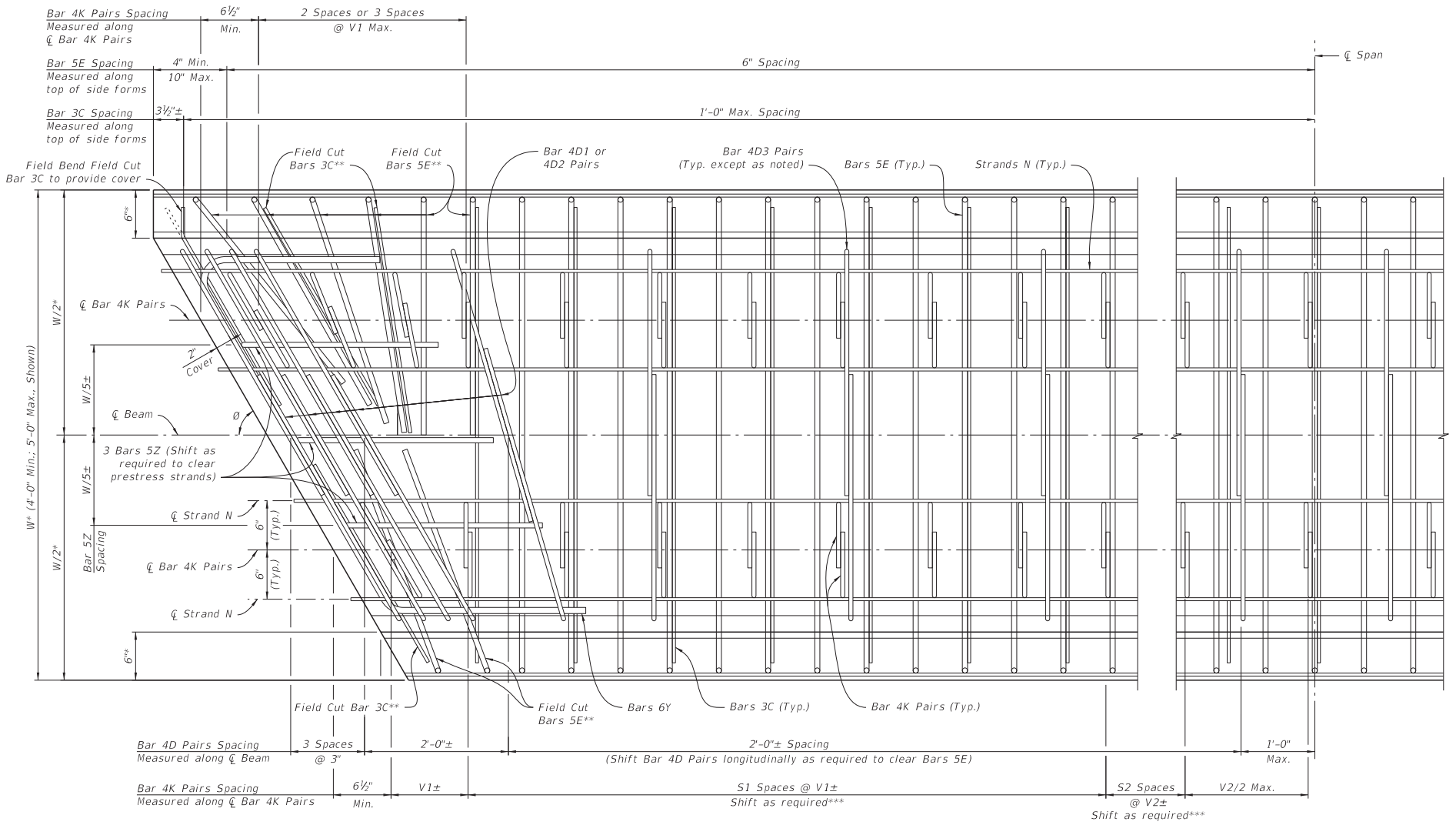
CROSS REFERENCE:
For Dimensions V1, V2 & W and number of spaces S1 & S2, see Florida Slab Beam – Table of Variables in Structures Plans.

See Indexes 450-451, 450-452 and 450-453 for Bars 5E Details.

PARTIAL PLAN VIEW Ø = 90°
(END 1 SHOWN, END 2 SIMILAR)
(INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

10/8/2020 10:33:19 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2021-22 STANDARD PLANS	FLORIDA SLAB BEAM TYPICAL DETAILS AND NOTES	450-450	2 of 3



MDC048

PARTIAL PLAN VIEW 60° ≤ Ø < 90°
(END 1 SHOWN, END 2 SIMILAR)
(INTERIOR BEAM SHOWN, EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)

* Measured to Working Points.
** At Beam ends, use number of field cut and rotated Bars 3C and 5E as required to clear Bar 4D Pairs and Bar 4K Pairs.
*** Shift Bar 4K Pairs longitudinally as required to clear Bar 4D Pairs and Bars 3C and 5E.

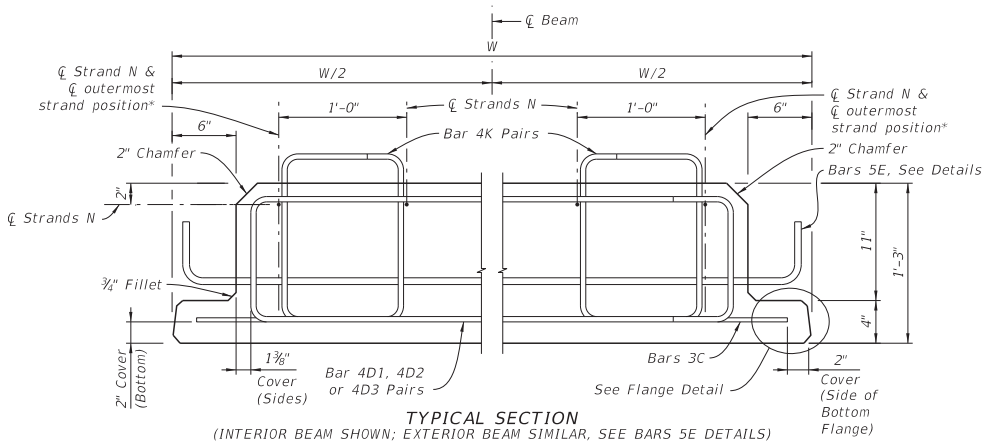
CROSS REFERENCE:
For Dimensions V1, V2 & W, Angle Ø and number of spaces S1 & S2, see Florida Slab Beam - Table of Variables in Structures Plans.

See Indexes 450-451, 450-452 and 450-453 for Bars 5E Details.

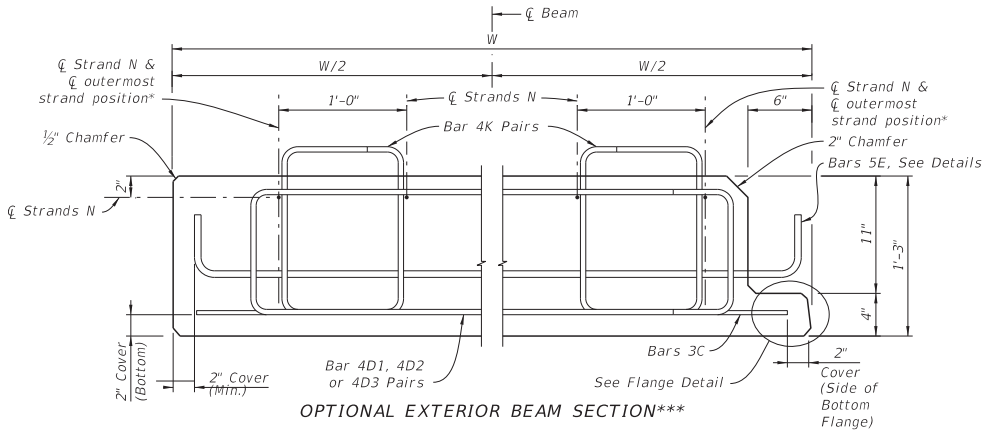
10/8/2020 10:33:20 AM

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FY 2021-22 STANDARD PLANS	FLORIDA SLAB BEAM TYPICAL DETAILS AND NOTES	450-450	3 of 3

MDC049



TYPICAL SECTION
(INTERIOR BEAM SHOWN; EXTERIOR BEAM SIMILAR, SEE BARS 5E DETAILS)



OPTIONAL EXTERIOR BEAM SECTION***

*** At the Contractor's option, the Optional Exterior Beam Section may be used.

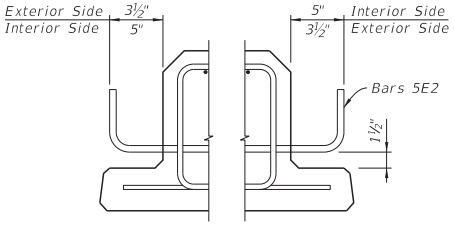
NOTES:
Work this Index with Index 450-450 and Florida Slab Beams – Table of Variables in Structures Plans.

For Dimensions C, D, E, L, R, W & Y and Angle Ø, see Florida Slab Beam – Table of Variables in Structures Plans.

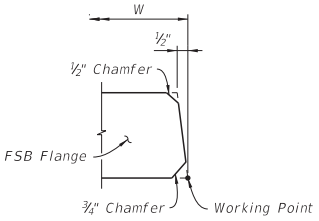
For referenced notes, see Index 450-450, Sheet 1.

* For ℄ of outermost strand positions, see corresponding Strand Pattern on Florida Slab Beams – Table of Variables in Structures Plans.

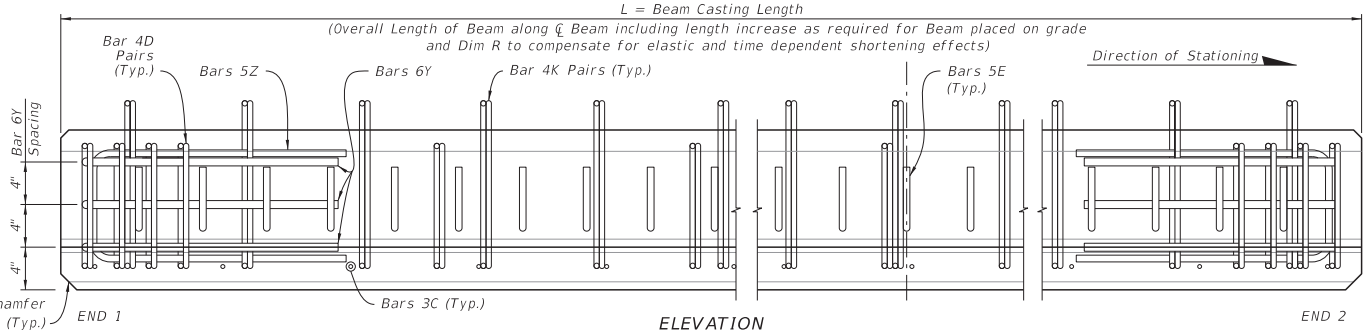
** At the Contractor's option, the Detail as shown for Interior Beams may be used for Exterior Beams and the Bars 5E field bent on the exterior side of the Beam to provide the specified cover to the coping line.



EXTERIOR BEAMS**
BARS 5E DETAIL



FLANGE DETAIL
(TYPICAL BOTH SIDES OF FSB)

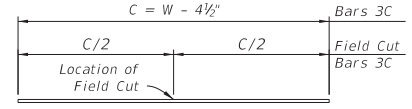


ELEVATION

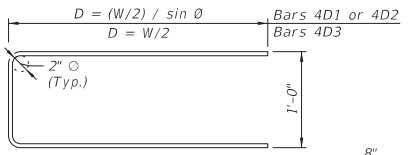
BILL OF REINFORCING STEEL
FOR ONE BEAM ONLY

MARK	SIZE	NOTE NUMBERS	NUMBER REQUIRED	LENGTH (NOTE 1)
C	3		See Table	Varies
D1	4	6	10 (End 1)	Varies
D2	4	6	10 (End 2)	Varies
D3	4		See Table	Varies
E1	5	7	See Table	Varies
E2	5	7	See Table	Varies
K	4		See Table	2'-8"
N	See Note 3	3	4	Varies
Y1	6	6	3 (End 1)	Varies
Y2	6	6	3 (End 2)	Varies
Z	5		6	4'-10½"

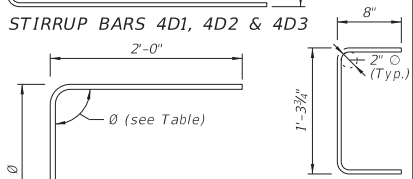
BENDING DIAGRAMS (See Note 1)

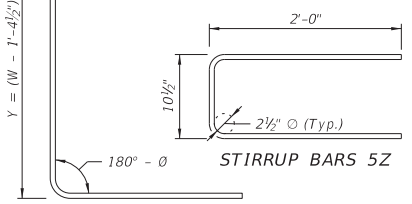


BARS 3C

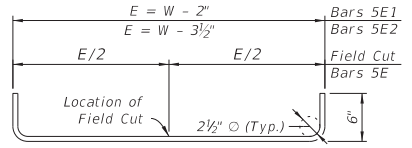


STIRRUP BARS 4D1, 4D2 & 4D3





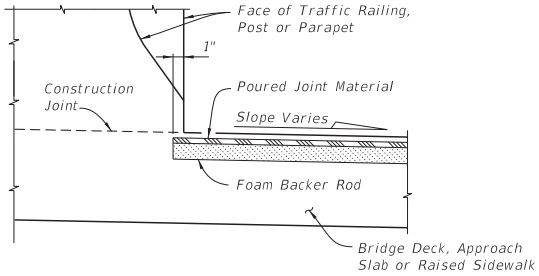
BARS 6Y1 & 6Y2



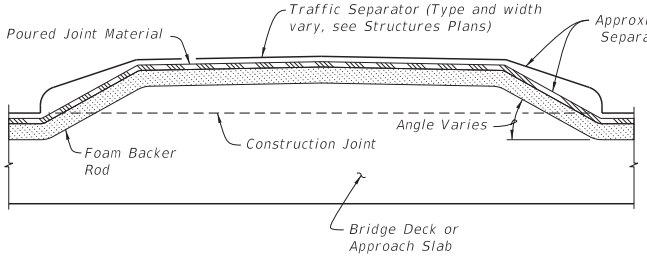
STIRRUP BARS 5E1 & 5E2

10/01/2020 10:32:33 AM

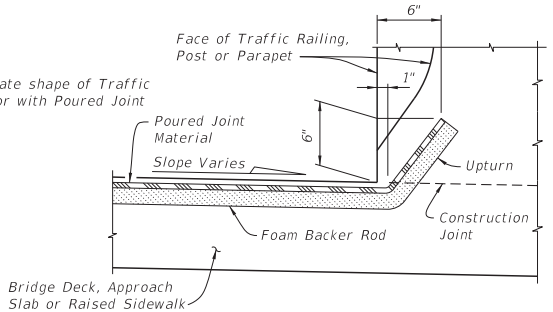
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	15" FLORIDA SLAB BEAM	INDEX	SHEET
11/01/20						450-452	1 of 1



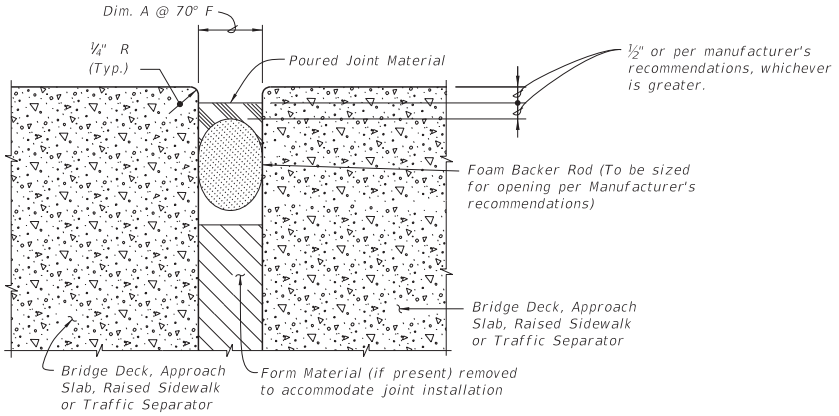
PARTIAL SECTION ALONG ℄ JOINT
JOINT TREATMENT AT HIGH SIDE OF
DECK WITH SLOPES 1% OR GREATER



PARTIAL SECTION ALONG ℄ JOINT,
JOINT TREATMENT AT TRAFFIC SEPARATOR



PARTIAL SECTION ALONG ℄ JOINT
JOINT TREATMENT AT LOW SIDE OF DECK OR
HIGH SIDE OF DECK WITH SLOPES < 1%



TYPICAL SECTION THRU JOINT

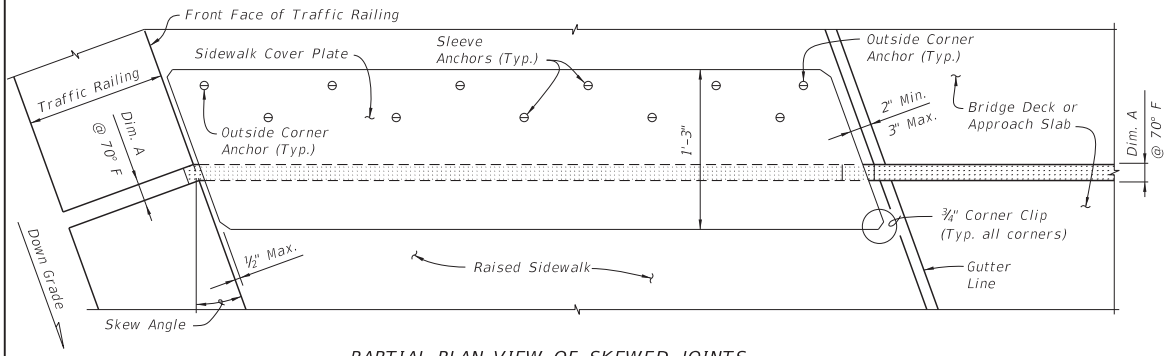
GENERAL NOTES:

1. Furnish and install Poured Joint With Backer Rod Expansion Joint Systems in accordance with Specification Sections 458 and 932 using Type D silicone sealant material.
2. Refer to the Structures Plans, Poured Expansion Joint Data Table for Dim. A @ 70° F.

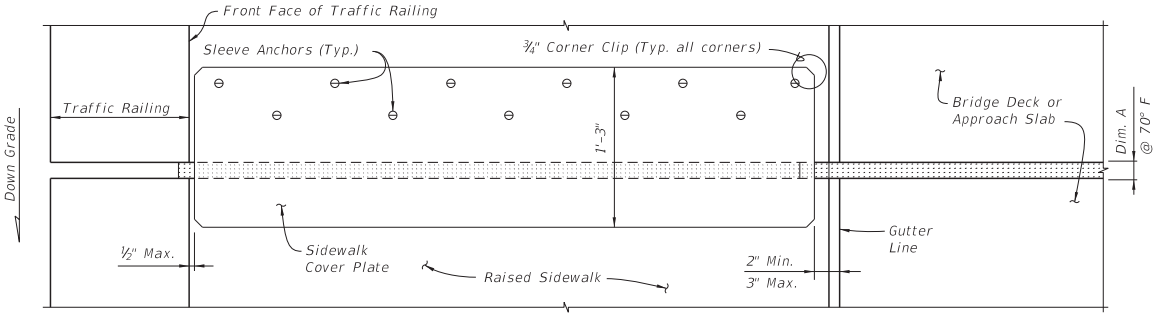
MDC050

10/8/2020 10:23:12 AM

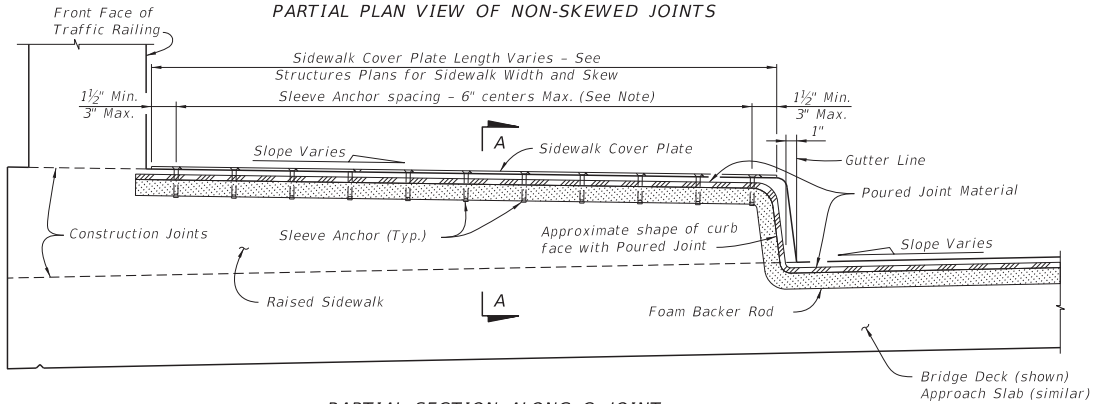
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD	INDEX	SHEET
07/01/14						458-110	1 of 2



PARTIAL PLAN VIEW OF SKEWED JOINTS

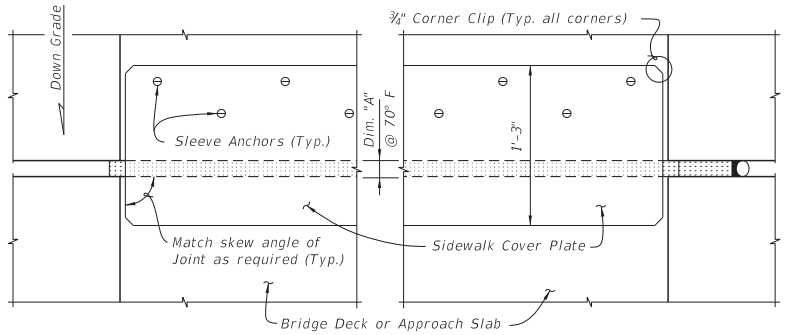


PARTIAL PLAN VIEW OF NON-SKEWED JOINTS

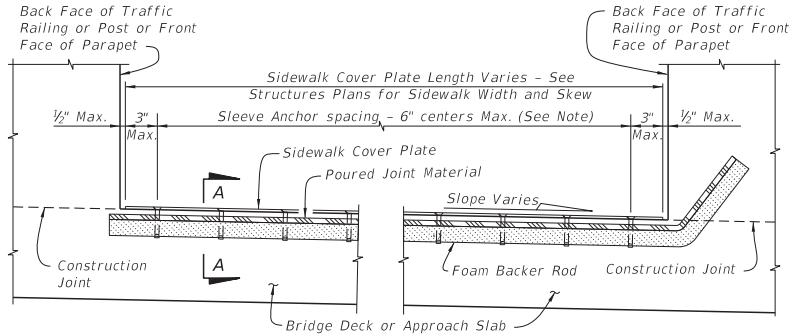


PARTIAL SECTION ALONG ℄ JOINT

RAISED SIDEWALK DETAIL

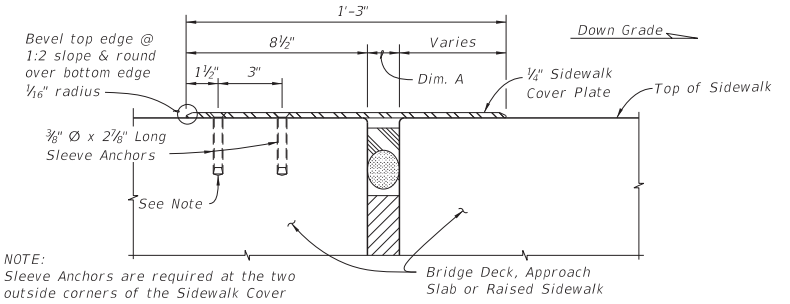


PARTIAL PLAN VIEW



PARTIAL SECTION ALONG ℄ JOINT

FLUSH SIDEWALK DETAIL



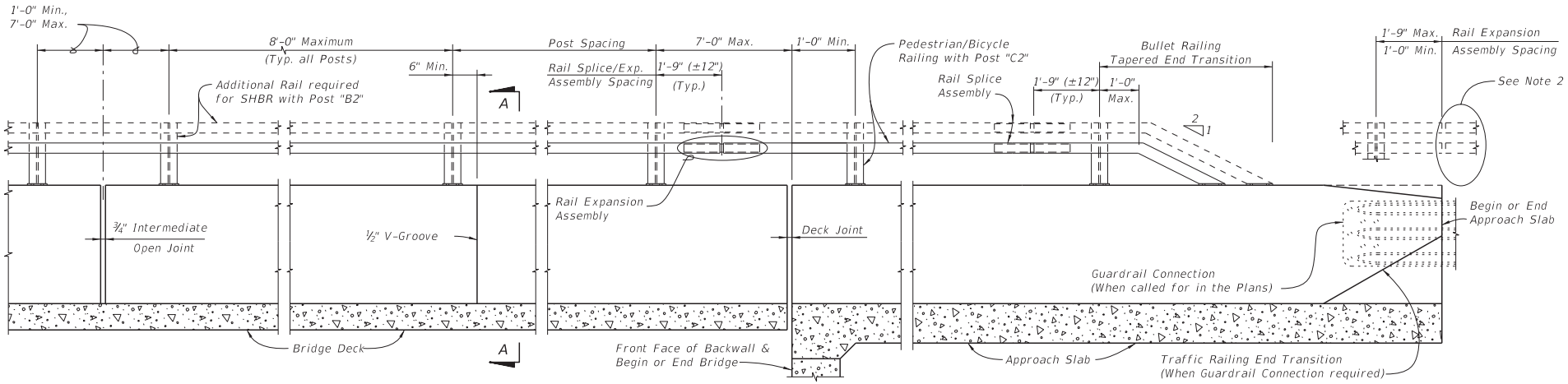
NOTE:
Sleeve Anchors are required at the two outside corners of the Sidewalk Cover Plate. Space Sleeve Anchors uniformly between the corner anchors.

SECTION A-A

MDC051

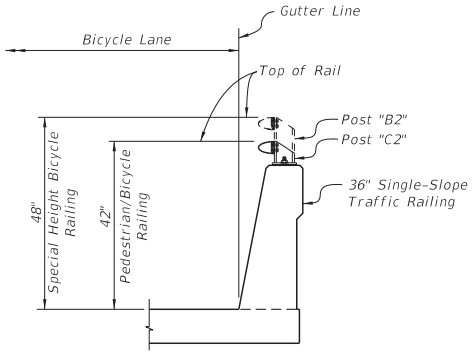
10/8/2020 10:23:15 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD	INDEX	SHEET
07/01/13						458-110	2 of 2



ELEVATION OF INSIDE FACE OF TRAFFIC RAILING WITH PEDESTRIAN/BICYCLE BULLET RAILING

MDC052



SECTION A-A
TYPICAL SECTION THRU BRIDGE DECK
(APPROACH SLAB SIMILAR)

NOTES:

1. *A Bullet Railing Tapered-End Transition is required for all approach ends of Bullet Railings on Traffic Railings. When Guardrail Connection is required terminate the Bullet Railing Tapered-End Transition at beginning of the Traffic Railing End Transition.*

2. *Where Bullet Railing continues on retaining wall mounted Traffic Railings or Barriers, provide a Bullet Railing Tapered End Transition at the terminus of the Bullet Railing.*

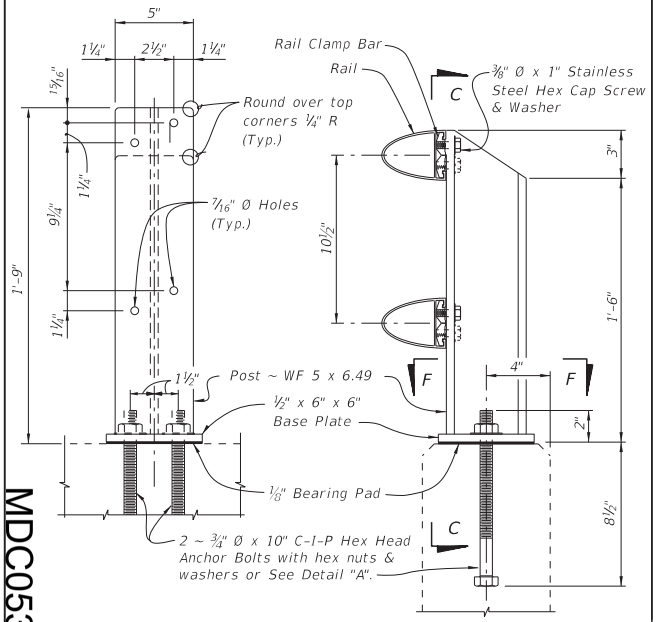
CROSS REFERENCES:

Work in conjunction with Index 515-022.

For Traffic Railing Details, Reinforcement and Notes see Index 521-427.

10/8/2020 10:05:05 AM

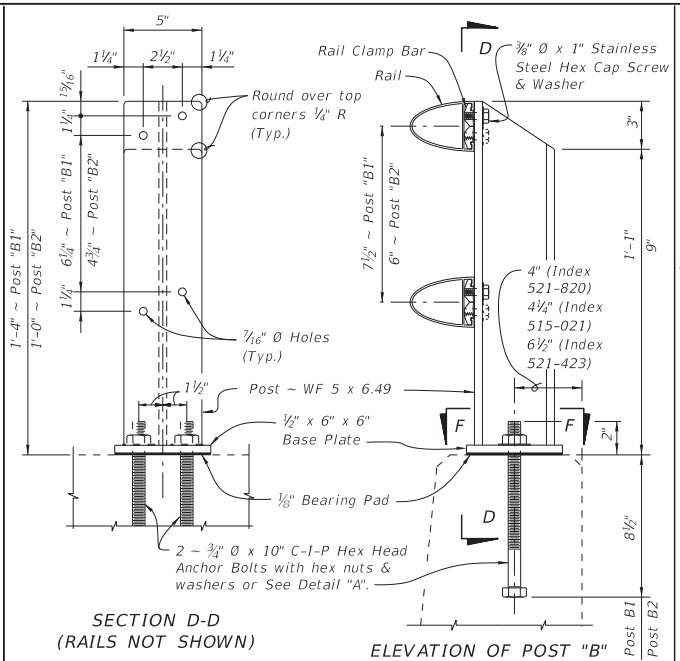
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	PEDESTRIAN/BICYCLE BULLET RAILING FOR TRAFFIC RAILING	INDEX	SHEET
11/01/17						515-021	1 of 1



SECTION C-C
(RAILS NOT SHOWN)

ELEVATION
OF POST "D"

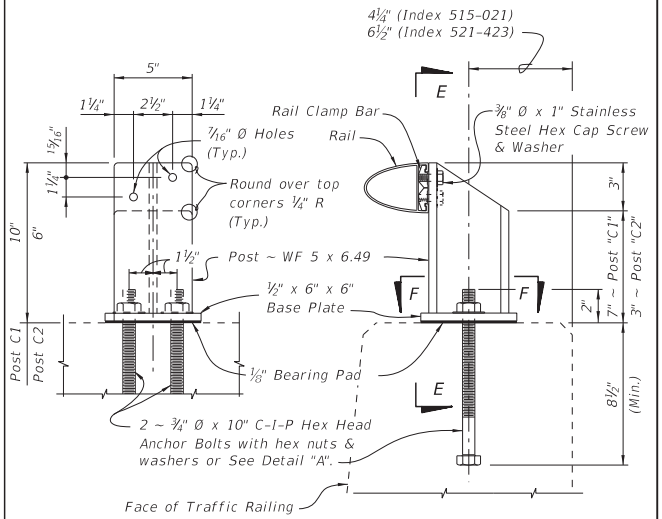
POST "D" DETAILS FOR SPECIAL HEIGHT BICYCLE RAILING
(SHBR) ON CONCRETE PARAPET (INDEX 521-820)



SECTION D-D
(RAILS NOT SHOWN)

ELEVATION OF POST "B"

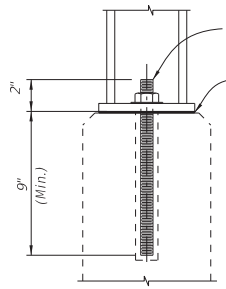
POST "B1" DETAILS FOR SHBR ON TRAFFIC RAILING
(INDEX 521-423) AND FOR PEDESTRIAN/BICYCLE
RAILING (PBR) ON CONCRETE PARAPETS (INDEX 521-820)
POST "B2" DETAILS FOR SHBR ON TRAFFIC RAILING
(INDEX 521-427 AND 515-021)



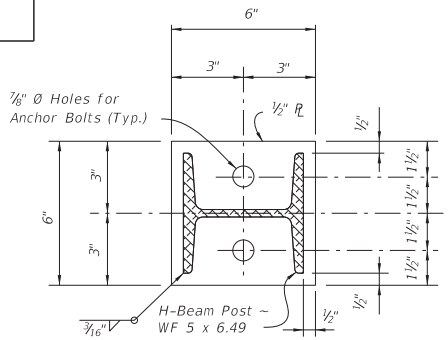
SECTION E-E
(RAIL NOT SHOWN)

ELEVATION
OF POST "C"

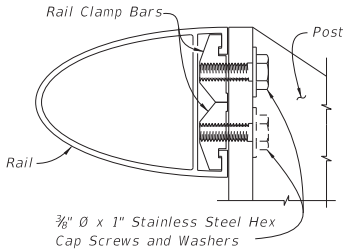
POST "C1" DETAILS FOR PEDESTRIAN/BICYCLE RAILING (PBR)
ON TRAFFIC RAILINGS (INDEX 521-423)
POST "C2" DETAILS FOR PBR ON
TRAFFIC RAILING (INDEX 521-427 & 515-021)



DETAIL "A"
ALTERNATE ANCHOR BOLT
(Concrete Parapet Shown,
Traffic Railings Similar)



SECTION F-F
BASE PLATE DETAIL



RAIL TO POST CONNECTION DETAIL

CROSS REFERENCES:

For post spacing on Concrete Parapets see Index 521-820.

For post spacing on Traffic Railings see Index 515-021.

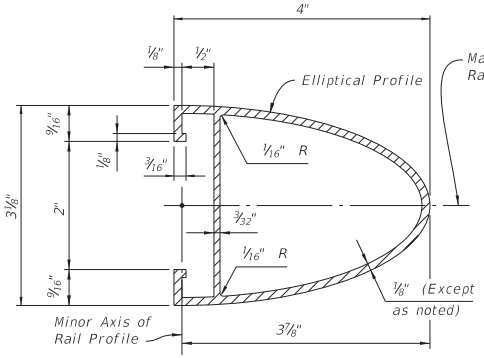
For Rail Details see Sheet 2.

For Railing Notes and Tapered End Transition Details see Sheet 3.

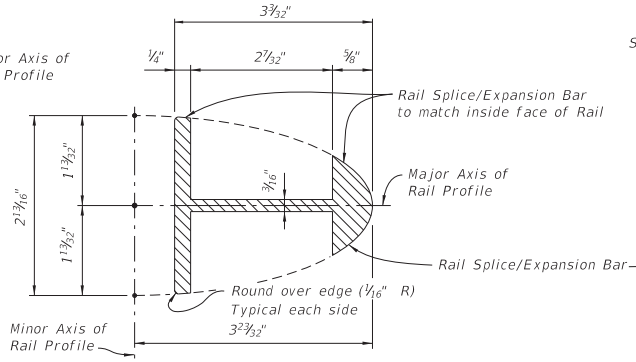
MDC053

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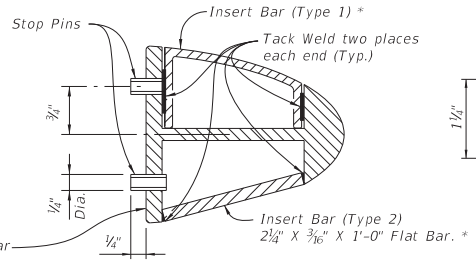
LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	PEDESTRIAN/BICYCLE BULLET RAILING DETAILS	INDEX	SHEET
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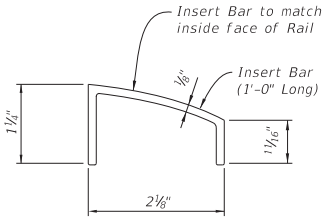
SECTION A-A
TYPICAL SECTION THRU RAIL



SECTION B-B - RAIL SPLICE/EXPANSION BAR
(Rail not shown for clarity)



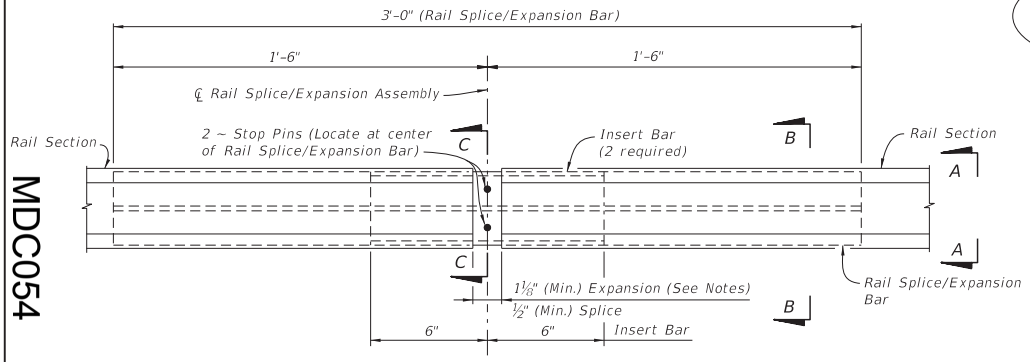
SECTION C-C
RAIL SPLICE/EXPANSION
BAR ASSEMBLY



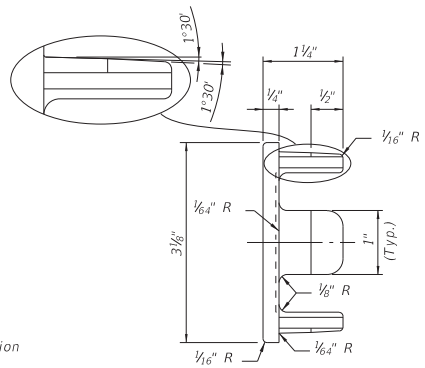
INSERT BAR DETAIL (TYPE 1)

* Use of either Type 1 or Type 2 Insert Bars is at the option of the Contractor.

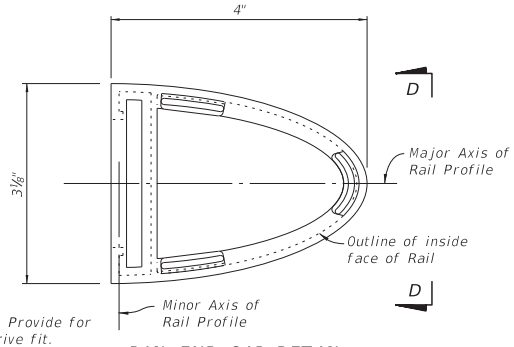
MDC054



RAIL SPLICE/EXPANSION ASSEMBLY DETAIL



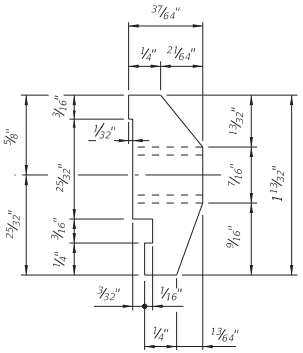
VIEW D-D



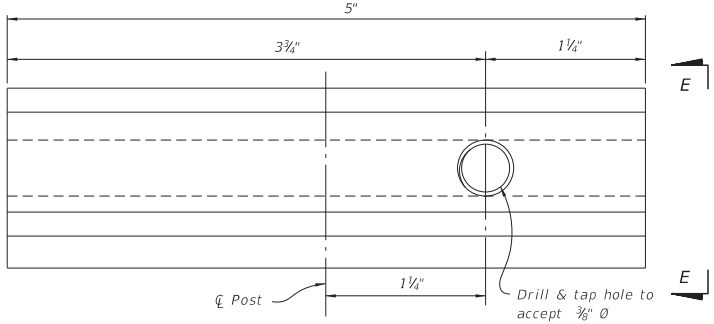
NOTE: Provide for drive fit.

RAIL END CAP DETAIL

CROSS REFERENCE:
For Notes and Tapered End Transition Details,
See Sheet 3.



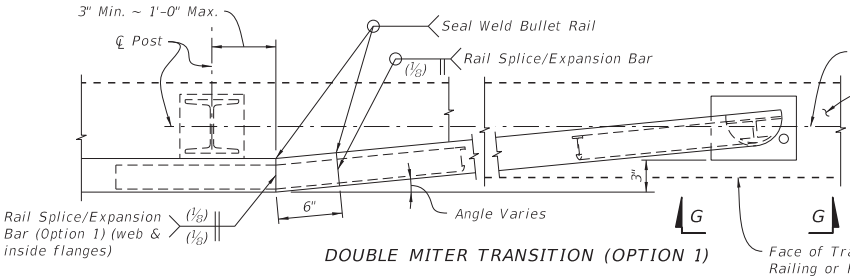
VIEW E-E



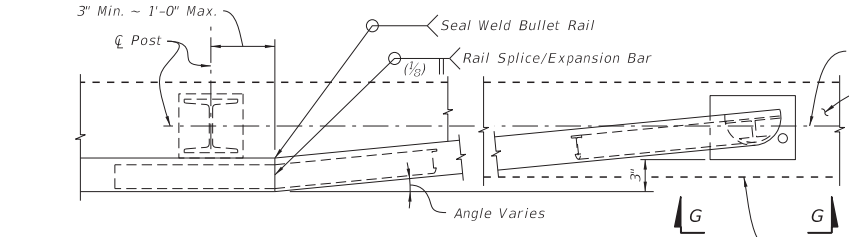
RAIL CLAMP BAR DETAIL

10/02/53 AM
10/8/2020

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	PEDESTRIAN/BICYCLE BULLET RAILING DETAILS	INDEX	SHEET
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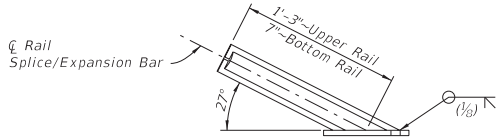
DOUBLE MITER TRANSITION (OPTION 1)



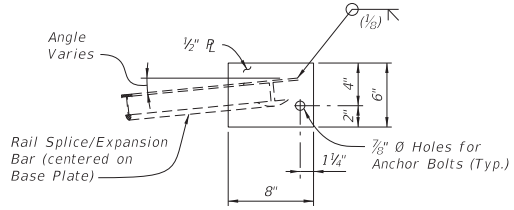
COMPOUND MITER TRANSITION (OPTION 2)

PARTIAL PLAN OF TAPERED END TRANSITIONS

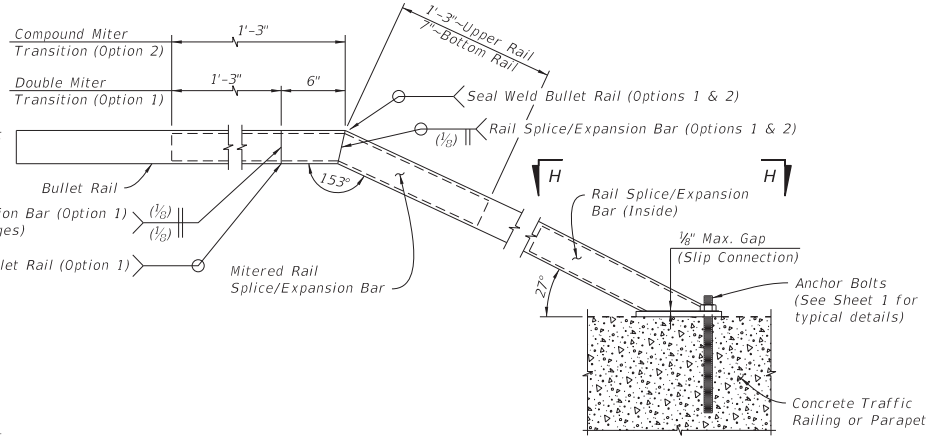
(Single Rail Shown, Double or Triple Rail Similar)



VIEW G-G TRANSITION BASE PLATE
(Bullet Rail not shown for Clarity)



VIEW H-H TRANSITION BASE PLATE
(Bullet Rail not shown for Clarity)



ELEVATION OF TAPERED END TRANSITION
(Single Rail Shown, Double or Triple Rail Similar)

RAILING NOTES:

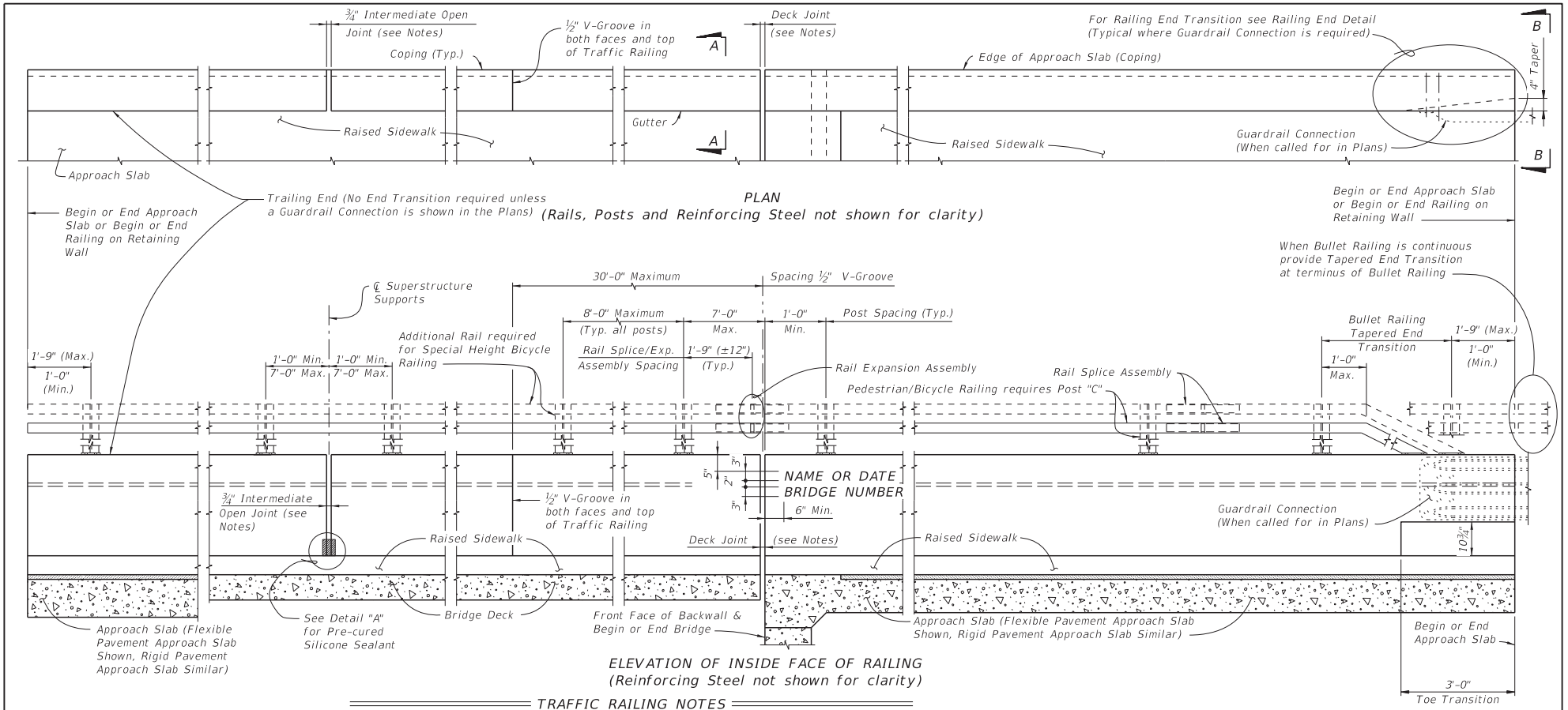
1. Work this Index with Index 521–423, 521–427, 521–428, 521–820 and 515–021 and Specification Section 515.
2. Shop Drawings: Submit shop drawings prior to fabrication.
   A. Include post and rail splice/expansion assembly location for curved alignments with radii < 40 feet and for all end terminations.
3. Materials:
   A. Supply Aluminum materials In accordance with Specification Section 965 and the following:
   Wrought Aluminum Post: ASTM B221, Alloy 6061–T6 or 6351–T5
   Rail End Cap: ASTM B26 sand cast aluminum alloy 356.0–F
   Plate and Bars: ASTM B209 Alloy 6061–T6
   Rails: ASTM B221 Alloy 6061–T6 or 6351–T5.
   Stop Pins: Press–fit aluminum or stainless steel pins or tubes
   B. Stainless Steel Fasteners: ASTM F–593, Alloy Group 2 (316).
   C. Bearing Pads: Plain or Fiber Reinforced meeting Specification Section 932 for Ancillary Structures.
   D. Anchor Bolts: Galvanized ASTM A307 Grade 36 Hex Head. Galvanized ASTM 1554 Grade 55 Threaded rods for Adhesive Anchors.
4. Layout:
   A. Posts shall be uniformly spaced with reasonable consistency.
   B. Tapered End Transitions are required at the terminus of the approach ends of Bullet Railing mounted on a Traffic Railing. Bullet Railings on concrete parapets shielded by a traffic railing do not require Tapered End Transitions unless noted otherwise in the Plans.
   C. Adjust post spacing's to avoid parapet obstacles, such as armor expansion plates, by 9 inches minimum.
   D. Rails shall be continuous over a minimum of 3 posts, except that lengths less than 12 feet need only be continuous over 2 posts.
   E. Space splices at 40 feet maximum. Splice all rails in a given railing section at about the same center line.
   F. Provide rail expansion assemblies in panels between posts on either side of a bridge expansion joint. Rail expansion assemblies are similar to the rail splice assemblies with increased space at the expansion assembly to allow for movement equal to 1.5 times the bridge joint opening or 1" greater than the expected joint movement.
5. Installation:
   A. Set rails near bridge expansion joints to allow for expected movement.
   B. Cutting of reinforcing steel is permitted for post installed anchors.
6. Payment: Includes the full cost of installed bullet railing. Cost of the Concrete Parapet or Traffic Railing is separate.

MDC055

10/02/55 AM
10/8/2020

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	PEDESTRIAN/BICYCLE BULLET RAILING DETAILS	INDEX	SHEET
11/01/20						515-022	3 of 3

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TRAFFIC RAILING NOTES

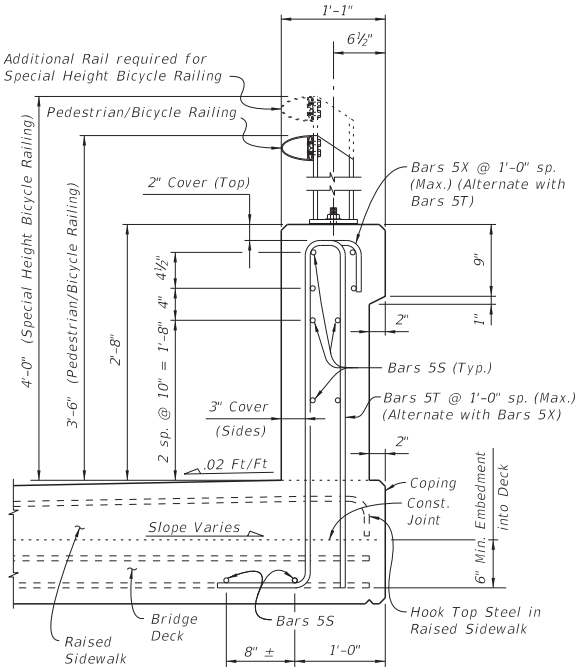
1. Materials: See Structures Plans, General Notes
2. Guardrail Connection Details: See Index 536-001
3. Traffic Railings may be constructed perpendicular to the sidewalk surface. If an adjoining railing is constructed plumb, transition the end of the Traffic Railing from perpendicular to plumb over a minimum distance of 20'-0". The cost of all modifications will be at the Contractor's expense.
4. Name, Date & Bridge Number: Place the Name and Bridge Number on the Traffic Railing on the driver's right side when approaching the bridge. Place the Date on the driver's left side when approaching the bridge. Use the Name as shown in the General Notes of the Structures Plans. The Date is the year the bridge is completed. For a widening when the existing railing is removed, use both the date on the removed rail and the year of the widening. Form letters and figures with ⅜" V-Grooves using preformed letters and figures. Black plastic letters and figures 3" tall may be used, if approved by the Engineer.
5. Open Joints: See the Superstructure Plans, Approach Slab and Retaining Wall Sheets for Deck Joint dimensions and orientation. Provide Open Railing Joints matching the dimensions of the Deck Joint at Deck Expansion Joint locations.
   A. For treatment of railings on skewed bridges see Sheet 3.
6. Open Joints: Provide ¾" Open Joints at:
   A. Superstructure supports where the slab is continuous.
   B. At ends of approach slabs when adjacent to retaining walls and at expansion joints on retaining wall junction slabs.
7. V-Grooves: Construct ½" V-Grooves plumb. Space V-Grooves equally between ¾" Open Joints and/or Deck Joints and the at V-Groove locations on the Retaining Wall footing/junction slabs.
8. Barrier Delineators: Install Barrier Delineators on top of the Traffic Railing 2" from the face of the traffic side in accordance with Specification Section 705. Match the Barrier Delineator to the color (white or yellow) of the near edgeline.
9. For embedded conduit and junction boxes see Index 630-010.
10. For Traffic Railings with Pedestrian/Bicycle Bullet Railings see Index 515-021 and 515-022 for Notes, Details and post spacing.

CROSS REFERENCE:
For Section A-A and View B-B, see Sheet 2.
For Detail "A" see Sheet 3.

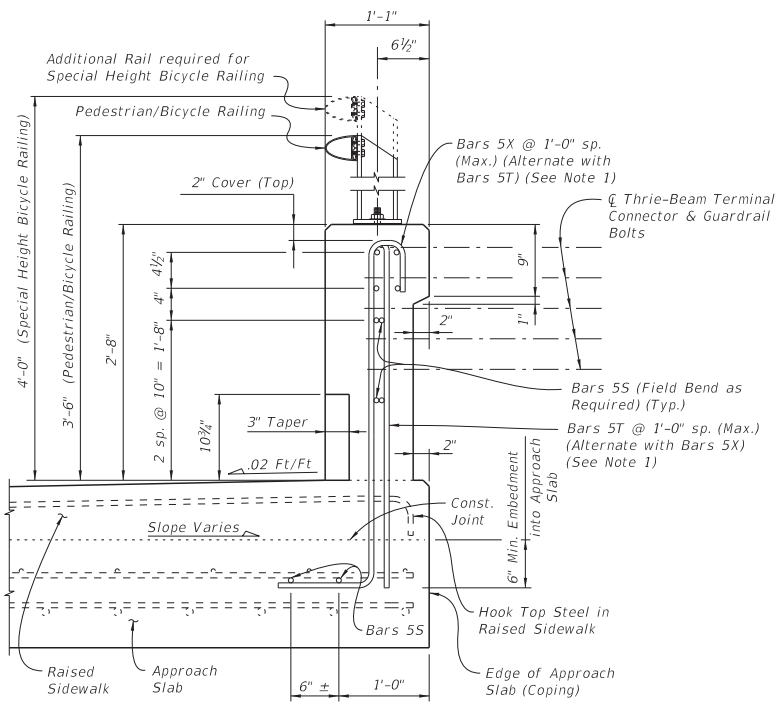
STINES
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LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	TRAFFIC RAILING - (32" VERTICAL SHAPE)	INDEX	SHEET
11/01/20						521-423	1 of 3

MDC057



SECTION A-A
TYPICAL SECTION THRU TRAFFIC RAILING
(Section Thru Bridge Deck shown)

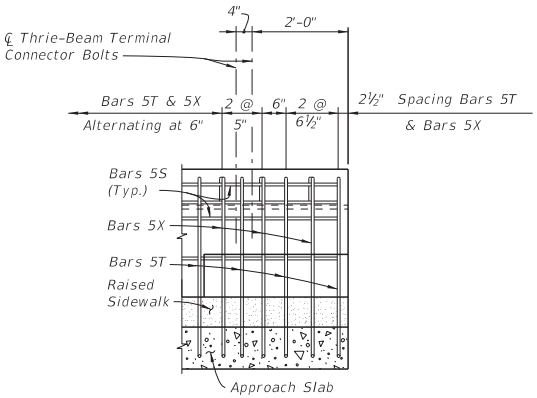


VIEW B-B
APPROACH SLAB END VIEW
OF TRAFFIC RAILING

NOTES:

1. *Begin placing Railing Bars 5T and 5X on Approach Slab at the railing end and proceed toward Begin or End Bridge to avoid conflict with guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5T and 5X shall be made immediately adjacent to Begin or End Bridge. Cut, shift and rotate Bars 5T and 5X as required to maintain cover in Railing End Transition.*

2. *Omit Railing End Transition and Guardrail if Concrete Traffic Railing is used beyond the Approach Slab or Retaining Wall. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Taper and Railing End Transition is omitted, extend Typical Section to end of the Approach Slab or limiting station on Retaining Wall, and space Bars 5T and 5X at 1'-0" (Typ.)*



RAILING END DETAIL
(Guardrail Not Shown For Clarity)

CROSS REFERENCE:
For location of Section A-A and View B-B see Sheet 1.

NOTE: For Bullet Railing Details, see Index 515-022.

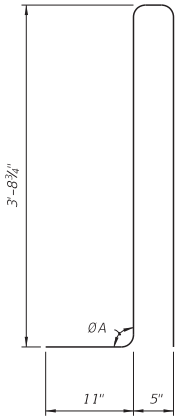
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LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	TRAFFIC RAILING - (32" VERTICAL SHAPE)	INDEX	SHEET
11/01/17						521-423	2 of 3

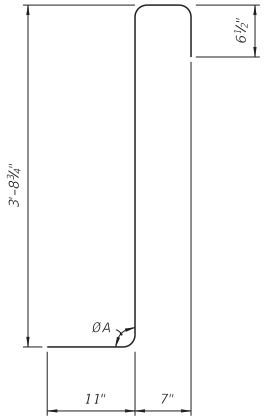
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
S	5	As Reqd.
T	5	9'-0"
X	5	5'-10"

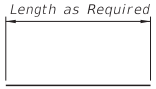
ROADWAY CROSS-SLOPE	ØA	
	LOW GUTTER	HIGH GUTTER
0% to 2%	90°	90°
2% to 6%	87°	93°
6% to 10%	84°	96°



STIRRUP BAR 5T



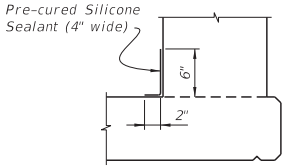
STIRRUP BAR 5X



BAR 5S

REINFORCING STEEL NOTES:

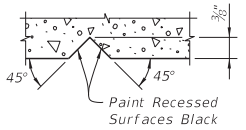
1. All bar dimensions in the bending diagrams are out to out.
2. The 3'-8¾" vertical dimensions shown for Bars 5T and 5X are based on a bridge deck with a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and a counter 2% raised sidewalk cross slope. If the raised sidewalk thickness, width or cross slopes vary from the above amounts, adjust these vertical dimensions accordingly to achieve a 6" minimum embedment into the bridge deck.
3. The reinforcement for the railing on a Retaining Wall shall be the same as detailed with ØA = 90°.
4. All reinforcing steel at the open joints shall have a 2" minimum cover.
5. Bars 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
6. The Contractor may utilize Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.



DETAIL "A" - SECTION
AT INTERMEDIATE OPEN JOINT

INTERMEDIATE JOINT SEAL NOTES:

1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.



SECTION THRU RECESSED "V" GROOVE
TO FORM INSCRIBED LETTERS AND FIGURES

ESTIMATED TRAFFIC RAILING QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete	CY/LF	0.095
Reinforcing Steel	LB/LF	25.90

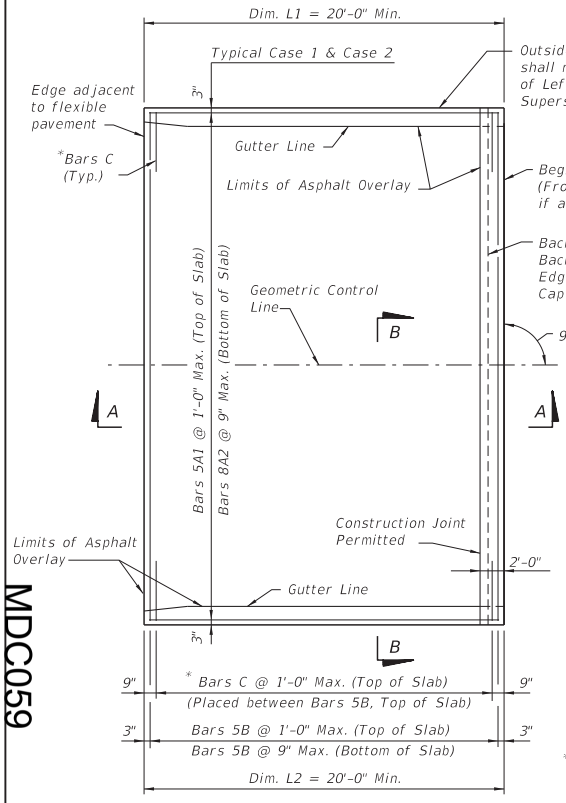
(The above quantities are based on a 6" thick x 6' wide raised sidewalk at low side of deck, 2% deck cross slope and counter 2% sidewalk cross slope.)

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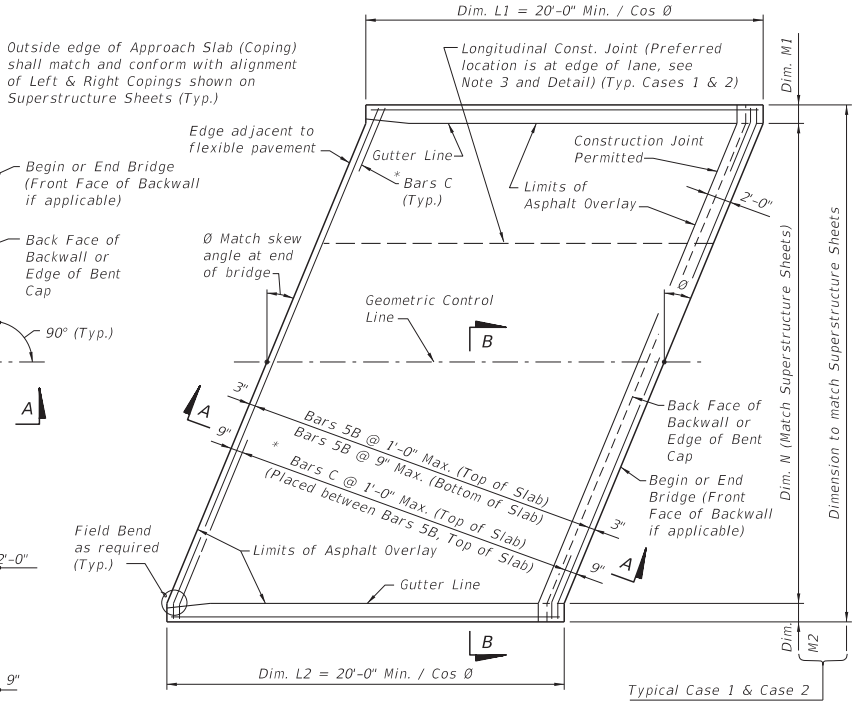
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LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	TRAFFIC RAILING - (32" VERTICAL SHAPE)	INDEX	SHEET
07/01/13						521-423	3 of 3

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PLAN VIEW (CASE 1)



PLAN VIEW (CASE 2)

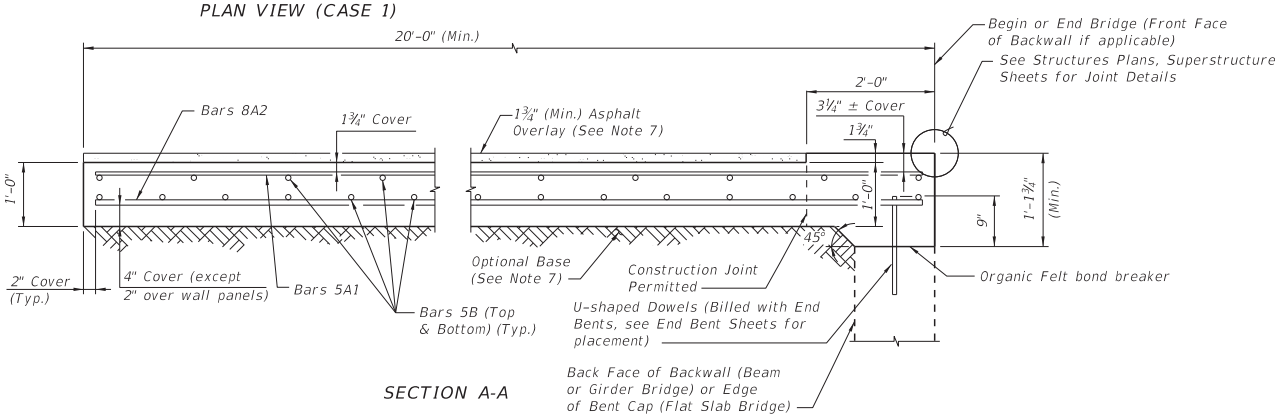
* NOTE: Bars C are required as shown when either a Traffic Railing or the Traffic Railing/Noise Wall are used at the edge of the Approach Slab.

GENERAL NOTES

1. SURFACE TREATMENT: As an option to Class 4 Floor Finish (Bridge Floor Grooving) per Section 400 a hand tined or heavy broomed finish may be permitted on the concrete portion of the riding surface. Sidewalk areas shall receive a broomed finish. The top surface of the concrete beneath the asphalt overlay shall be raked.
2. CONDUIT: If required, see Structure Plans for Conduit Details.
3. When a longitudinal construction joint is necessary or allowed by the Engineer, the transverse steel shall be extended as shown in the Longitudinal Construction Joint Detail.
4. The plan view for CASE 1 applies when the skew angle (Ø) = 0°. Relevant details also apply to CASE 2.
5. The plan view for CASE 2 applies where the skew angle (Ø) is > 0°. The slab shown represents a skew to the right for an approach slab at begin bridge; approach slab at the end of bridge or a left skew shall be treated similarly.
6. Welded Wire Reinforcement (WWR) for the edge of Approach Slabs on retaining walls is not included in the estimated quantity for reinforcing steel and is considered incidental to the work. WWR must consist of Deformed wire meeting the requirements of Specification Section 931.
7. Continue the asphalt pavement over the approach slab and match the friction course type used on the roadway. See the Roadway Plans for asphalt overlay and optional base details.
8. Approach slabs shown in Plan View Cases 1 and 2 represent a typical approach slab with edge barriers and no sidewalks. Provide railings, parapets and raised sidewalks as detailed in the Contract Plans.

CROSS REFERENCES:

For Section B-B, Longitudinal Construction Joint Detail and Approach Slab Details see Sheet 2.

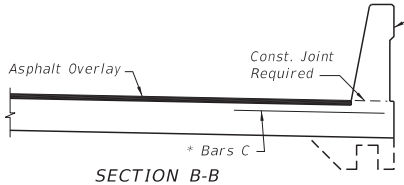


SECTION A-A

LAST REVISION	REVISION	DESCRIPTION:	DEVELOPMENTAL DESIGN STANDARDS	APPROACH SLABS (20 FT.) (FLEXIBLE PAVEMENT APPROACHES)	INDEX NO.	SHEET NO.
10/01/16			FDOT		D20920	1 of 2

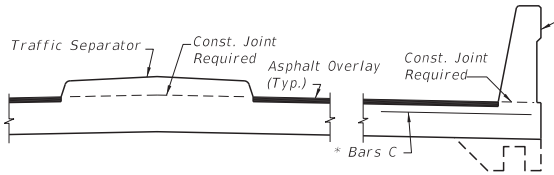
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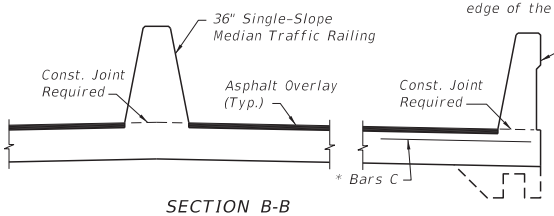
SECTION B-B
STANDARD APPROACH SLAB

NOTE:
Geometry of Traffic Railings, Pedestrian/Bicycle Railings, Traffic Separators and Sidewalks to match those on adjoining bridge.

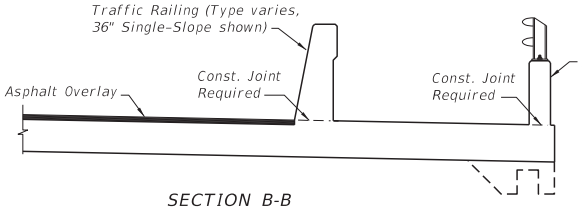


SECTION B-B
APPROACH SLAB WITH TRAFFIC SEPARATOR

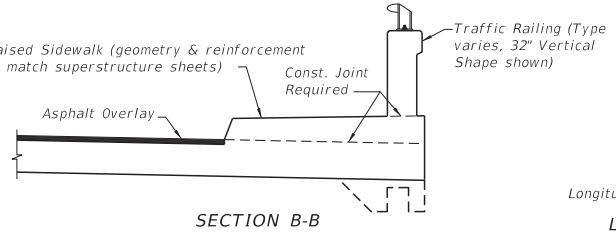
*NOTE: Bars C are required as shown when the 36" or 42" Single-Slope Traffic Railing, or the Traffic Railing/Noise Wall, are used at the edge of the Approach Slab.



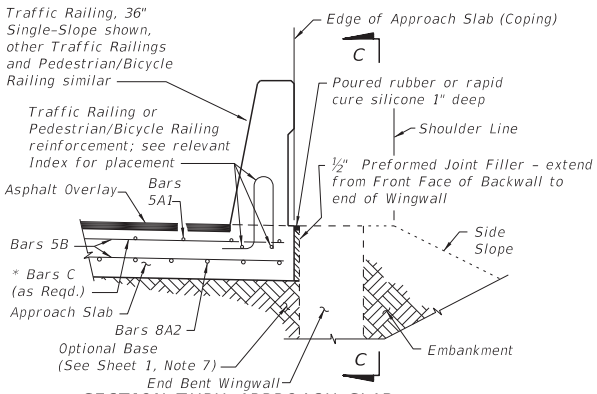
SECTION B-B
APPROACH SLAB WITH MEDIAN TRAFFIC RAILING



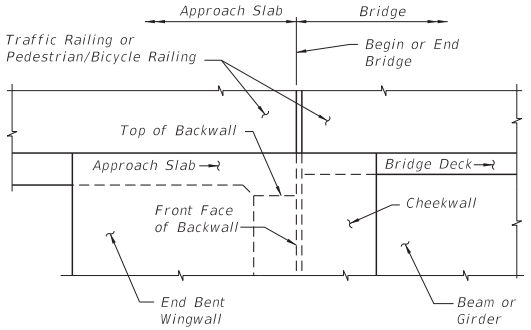
SECTION B-B
APPROACH SLAB WITH SIDEWALK



SECTION B-B
APPROACH SLAB WITH RAISED SIDEWALK

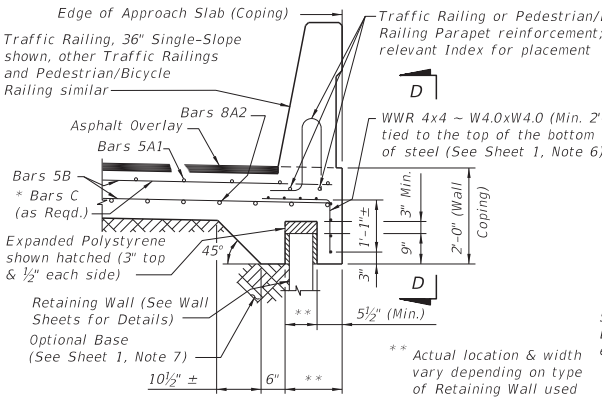


SECTION THRU APPROACH SLAB
AND END BENT WINGWALL

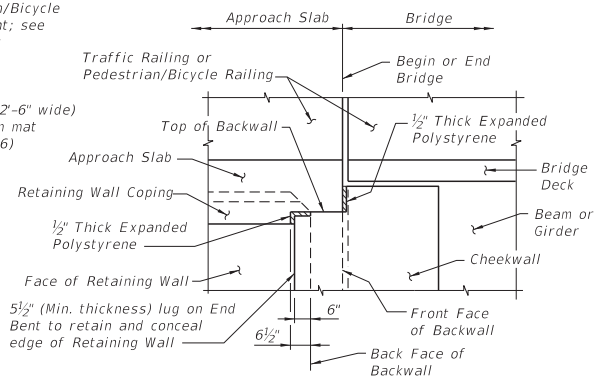


VIEW C-C AT BEGIN OR END BRIDGE (BEAM BRIDGE SHOWN, FLAT SLAB BRIDGE SIMILAR)

APPROACH SLAB WITH WINGWALL DETAILS

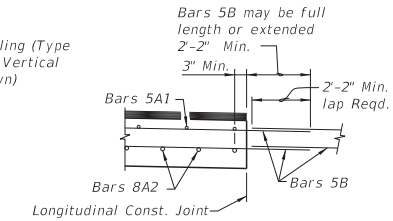


SECTION THRU APPROACH SLAB
AND RETAINING WALL

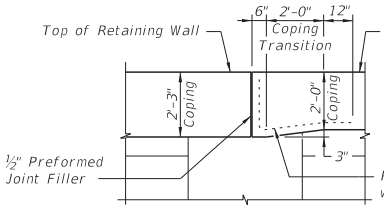


VIEW D-D AT BEGIN OR END BRIDGE (BEAM BRIDGE SHOWN, FLAT SLAB BRIDGE SIMILAR)

APPROACH SLAB WITH RETAINING WALL DETAILS



LONGITUDINAL CONSTRUCTION
JOINT DETAIL



COPING TRANSITION DETAIL FOR
RETAINING WALLS WITH 2'-3" COPING HEIGHT
(Railing Not Shown For Clarity)

CROSS REFERENCES:

For location of Section B-B and Longitudinal Construction Joint see Sheet 1.

LAST REVISION	REVISION	DESCRIPTION:	DEVELOPMENTAL DESIGN STANDARDS	APPROACH SLABS (20 FT.) (FLEXIBLE PAVEMENT APPROACHES)	INDEX NO.	SHEET NO.
10/01/16					D20920	2 of 2

STINES
SDATES

Attachment C

Names and Addresses of Owners of All Riparian or Wetland Property within Three Hundred (300) Feet of the Proposed Work

Federica Tuaty TRS
941 NE 83 ST Land Trust
7900 Oak Lane #400
Miami Lakes, FL 33016

Roland Kindell
Maria Kindell
951 NE 83 Street
Miami, FL 33138

Micha R. Dubernard
Julie A Bouvaist Dubernard
968 NE 84th Street
Miami, FL 33138

Daniel Milewski
Nina Johnson
986 NE 84th Street
Miami, FL 33138

Gabriela Petrini
990 NE 83rd Street,
Miami, FL 33138

Ann Kirlew
1014 NE 84th Street
Miami, FL 33138

MN 1021, LLC
1310 97th Street
Bay Harbor Island, FL 33154

Neriman Caliskan
1028 NE 84th Street
Miami Shores, FL 33138

Osvaldo B. Perez
1031 NE 83rd Street
Miami, FL 33138

Francois Frossard TRS
Francois Frossard Rev TRS
1034 NE 84th Street,
Miami, FL 33138

Benjamin R Kaplan
1041 NE 83rd Street
Miami, FL 33138

Jean Claude Remy & W Saintanise
8281 NE 10th Avenue
Miami, FL 33138-4107

Luis Rodriguez
1207 NE 90th Street
Miami, FL 33138

MIAQUA, LLC
401 Lincoln Road, Suite 8G
Miami, FL 33139

Milton Ivan Gonzalez
Fernanda Valdivia
931 NE 83rd Street
Miami, FL 33138

Metwally, LLC
33 32 86 Street
Jackson Heights, NY 11372

Gabriela Petrini
990 NE 83rd Street
Miami, FL 33138

Jose Parapar
1001 NE 84th Street
Miami, FL 33138

Francisco Colbertaldo
10 North Voorhees Drive
Basking Ridge, NJ 07920

Ronald Cook
360 NE 105th Street
Miami Shores, FL 33138

Jalima Hernandez
1020 NE 83rd Street
Miami, FL 33138

Robert R Bizzell
8400 NE 10th Avenue
Miami, FL 33138

Attachment D

Zoning Memorandum

Memorandum

Date: November 9, 2023

To: McKee Gray, Chief
Natural Resources Division
Department of Regulatory and Economic Resources

From: Rockell Alhale, Manager
Coastal Resources Section
Department of Regulatory and Economic Resources

Subject: Class I Permit Application by Miami-Dade County, through its Department of Transportation and Public Works, for the Filling and Non-Maintenance Dredging of Tidal Waters in Association with the Replacement of a Fixed Bridge within the Ademar Canal along Northeast 10th Avenue between Northeast 83rd Street and Northeast 84th Street, Miami, Miami-Dade County, Florida.

Pursuant to Section 24-48.2(II)(B)(7), of the Code of Miami-Dade County, Florida, a substantiating letter shall be submitted by the applicant stating that the proposed project does not violate any zoning laws. Said letter will be submitted after approval by the Miami-Dade County Board of County Commissioners and prior to issuance of the Class I permit.

Attachment E

DERM Project Report

CLASS I PERMIT APPLICATION NO. CLI-2022-0092

Class I Permit Application by Miami-Dade County, through its Department of Transportation and Public Works, for the Filling and Non-Maintenance Dredging of Tidal Waters in Association with the Replacement of a Fixed Bridge within the Ademar Canal along Northeast 10th Avenue between Northeast 83rd Street and Northeast 84th Street, Miami, Miami-Dade County, Florida.

DATE: November 9, 2023

Staff's recommendation of approval for the above-referenced permit application is based on the applicable evaluation factors under Section 24-48.3 of the Code of Miami-Dade County, Florida (Code). The following is a summary of the proposed project with respect to each applicable evaluation factor:

1. **Potential Potential Adverse Environmental Impact**- Pursuant to Section 24-48.4 of the Code, potential adverse environmental impacts and cumulative adverse environmental impacts for a proposed project must be avoided and minimized. The submerged bottom at the site consists of limerock overlaid by accumulated sediment and is not providing significant benthic habitat; therefore, impacts to benthic resources as a result of the proposed work is not reasonably expected. In addition, the proposed work is not reasonably expected to result in cumulative environmental impacts to water quality and the work is likely to improve water quality through the removal of accumulated sediment, in addition to providing scour protection. Any temporary water quality impacts would be minimized through the implementation of proper turbidity controls throughout construction operations to ensure that State and County water quality standards are met. Section 24-48.4 of the Code also requires mitigation for permittable projects that otherwise result in unavoidable adverse environmental impacts. The mitigation required for the temporary water quality impacts associated with the non-maintenance dredging and filling of tidal waters would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund. In addition, the project proposes approximately 331 square feet of mangrove trimming, the minimum necessary for the replacement of the bridge. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the shoreline. Mitigation associated with the removal of mangrove canopy would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund.

   The proposed project has been evaluated for consistency with the Miami-Dade County Manatee Protection Plan. The project is located within an area designated as essential habitat for the Florida manatee. However, the proposed project does not involve the mooring of vessels and the Class I permit would require that all standard construction permit conditions regarding manatee protection be followed during all in-water operations.

2. **Potential Cumulative Adverse Environmental Impact** – The proposed project is not reasonably expected to result in cumulative adverse environmental impacts as set forth in Number 1 above.

3. **Hydrology** - The proposed project is not reasonably expected to adversely affect surface water drainage or retention of stormwater.

4. **Water Quality** – The proposed project may affect surface water quality on a temporary basis during construction operations; however, the impacts will be minimized as set forth in Number 1 above.

5. **Wellfields** – The proposed project is not reasonably expected to adversely affect wellfields.

6. **Water Supply** – The proposed project is not reasonably expected to adversely affect water supply.

7. **Aquifer Recharge** – The proposed project is not reasonably expected to adversely affect aquifer recharge.

8. **Aesthetics** – The proposed project is not reasonably expected to adversely affect aesthetics.

9. **Navigation** –Vessels do not traverse underneath the bridge and the project would not impact the structures of the adjacent property owners within the bridge right-of-way. Therefore, the proposed project is not reasonably expected to adversely affect navigation.

10. **Public Health** - The proposed project is not reasonably expected to adversely affect public health.

11. **Historic Values** - The proposed project is not reasonably expected to adversely affect historic values.

12. **Archaeological Values** - The proposed project is not reasonably expected to adversely affect archaeological values.

13. **Air Quality** – The proposed project is not reasonably expected to adversely affect air quality.

14. **Marine and Wildlife Habitats** – The proposed project is not reasonably expected to adversely affect marine and wildlife habitats, as set forth in Number 1 above.

15. **Wetland Soils Suitable for Habitat** – The proposed project does not involve any work in wetland soils.

16. **Floral Values –** The proposed project is not reasonably expected to adversely affect floral values as set forth in Number 1 above.

17. **Fauna Values -** The proposed project is not reasonably expected to adversely affect fauna values as set forth in Number 1 above.

18. **Rare, Threatened and Endangered Species** – The proposed project is not reasonably expected to adversely affect rare, threatened and endangered species. The proposed project site is located within an area designated as essential manatee habitat for the West Indian Manatee by the MPP; however, the Class I permit would require that all standard manatee construction permit conditions be followed during all in-water operations.

19. **Natural Flood Damage Protection** - The proposed project is not reasonably expected to adversely affect surface water drainage or retention of stormwater.

20. **Wetland Values** – The proposed project does not involve work in wetlands.

21. **Land Use Classification** – Pursuant to Section 24-48.2(II)(B)(7) of the Code of Miami-Dade County, Florida, a substantiating letter stating that the proposed project does not violate any zoning laws, or a plan approval, would be submitted prior to permit issuance. Said letter or plan approval would be submitted after the approval by the Board of County Commissioners and prior to the issuance of a Class I permit.

22. **Recreation** - The proposed project does not conflict with the recreation element of the Miami-Dade County Comprehensive Development Master Plan.

23. **Other Environmental Values Affecting the Public Interest** – The proposed project is not reasonably expected to adversely affect other environmental values affecting the public interest. The proposed project will occur on lands owned by the City of Miami and authorization for use of the subject submerged lands has been obtained from the City of Miami.

24. **Conformance with Standard Construction Procedures and Practices and Design and Performance Standards** – The proposed project complies with the standard construction procedures and practices and design and performance standards of the applicable portions of the Miami-Dade County Public Works Manual. Chapter 33B of the Code of Miami-Dade County is not applicable.

25. **Comprehensive Environmental Impact Statement (CEIS)** - In the opinion of the Director, the proposed project is not reasonably expected to result in significant adverse environmental impacts or cumulative adverse environmental impacts. Therefore, a CEIS was not required by DERM to evaluate the project.

26. **Conformance with All Applicable Federal, State and Local Laws and Regulations** - The proposed project is in conformance with applicable State, Federal and local laws and regulations:
    a) Chapter 24 of the Code of Miami-Dade County
    b) United States Clean Water Act (US Army Corps of Engineers permit is required)
    c) South Florida Water Management District (Regulatory permit has been obtained. See Attachment F).

27. **Conformance with the Miami-Dade County Comprehensive Development Master Plan (CDMP)** - In the opinion of the Director, the proposed project is consistent as required by CDMP policy LU-3A, with the goals, objectives and policies contained in the Conservation, Aquifer Recharge and Drainage and Coastal Management Elements of this Plan, and with all applicable environmental regulations, as well as other elements of the CDMP. The following is a summary of the proposed project as it relates to the CDMP:

LAND USE ELEMENT I:

Objective 3/Policies 3B, 3C - Protection of natural resources and systems. – The proposed project is consistent with all applicable environmental regulations, is compatible with surrounding land uses in Biscayne Bay and does not involve development in the Big Cypress area of Critical State Concern or the East Everglades.

TRANSPORTATION ELEMENT II

Aviation Subelement/Objective AV-5A - Aviation System Expansion - There is no aviation element to the proposed project.

Port of Miami River Subelement/Objective 3 - Minimization of impacts to estuarine water quality and marine resources. The proposed project is not located within the Miami River.

CONSERVATION, AQUIFER RECHARGES AND DRAINAGE ELEMENT IV:

Objective 3/Policies 3A, 3B, 3D - Wellfield protection area protection. - The proposed project is not located within a wellfield protection area.

Objective 3/Policy 3E - Limestone mining within the area bounded by the Florida Turnpike, the Miami-Dade/ Broward Levee, N.W. 12 Street and Okeechobee Road. - The proposed project is not located within this area.

Objective 4/Policies 4A, 4B, 4C - Water storage, aquifer recharge potential and maintenance of natural surface water drainage. - The proposed project is not reasonably expected to adversely affect water storage, aquifer recharge potential or natural surface water drainage.

Objective 5/Policies 5A, 5B, 5F - Flood protection and cut and fill criteria – The proposed project will not compromise flood protection.

Objective 6/Policy 6A - Areas of highest suitability for mineral extraction. - The proposed project is not located in an area proposed or suitable for mineral extraction.

Objective 6/Policy 6B - Guidelines for rock quarries for the re-establishment of native flora and fauna.– The proposed project is not located in a rock quarry.

Objective 7/Policy 7A, 7C, 7D, 7J - Wetland protection and restoration. – The proposed project is not located within a wetland.

Objective 9/Policies 9A, 9B, 9C - Protection of habitat critical to Federal or State-designated threatened or endangered species. – The proposed project is not reasonably expected to adversely affect habitat critical to Federal or State-designated threatened or endangered animal species, and the impacts have been minimized as set forth in Number 1 above.

COASTAL MANAGEMENT ELEMENT VII:

Objective 1/Policy 1A – Mangrove wetlands within Mangrove Protection Areas – The proposed project is not located within a designated "Mangrove Protection Area."

Objective 1/ Policy 1B - Natural surface flow into and through coastal wetlands. – The proposed project is not located within coastal wetlands.

Objective 1/ Policy 1C - Elevated boardwalk access through mangroves. – The proposed project does not involve the construction of an elevated walkway through mangroves.

Objective 1/Policy 1D - Protection and maintenance of mangrove forests and related natural vegetational communities. - The proposed project is not located within a mangrove forest or related natural vegetational community.

Objective 1/Policy 1E - Mitigation for the degradation and destruction of coastal wetlands. Monitoring and maintenance of mitigation areas. – The proposed project is not located within coastal wetlands.

Objective 1/Policy 1G - Prohibition on dredging or filling of grass/algal flats, hard bottom or other viable benthic communities, except as provided for in Chapter 24 of the Code of Miami-Dade County, Florida. - The proposed project does not involve dredging or filling of grass/algal flats, hard bottom, or other viable benthic communities.

Objective 2/Policies 2A, 2B - Beach restoration and renourishment objectives. - The proposed project does not involve beach restoration or renourishment.

Objective 3/Policies 3E, 3F - Location of new cut and spoil areas for proper stabilization and minimization of damages. - The proposed project does not involve the development or identification of new cut or spoil areas.

Objective 4/Policy 4A, 4C, 4E, 4F – Protection of endangered or threatened animal species. – The proposed project is not reasonably expected to result in impacts to endangered or threatened species as set forth in Number 18 above.

Objective 5/Policy 5B - Existing and new areas for water-dependent uses. - The proposed project is not reasonably expected to adversely affect existing water-dependent uses.

Objective 5/Policy 5D - Consistency with Chapter 33D, Miami-Dade County Code. (shoreline access, environmental compatibility of shoreline development) – The proposed project site is not located within the Shoreline Development Review boundaries; therefore, the thresholds for review by the Shoreline Development Review Committee under the Shoreline Ordinance do not apply and the proposed project is not subject to shoreline development review.

Objective 5/Policy 5F - The siting of water dependent facilities. - The proposed project does not involve the creation of new water dependent facilities.

28. **Conformance with Chapter 33B, Code of Miami-Dade County** (East Everglades Zoning Overlay Ordinance) – The proposed project is not located within the East Everglades Area.

29. **Conformance with Miami-Dade County Ordinance 81-19** (Biscayne Bay Management Plan Sections 33D-1 through 33D-4 of the Code of Miami-Dade County) - The project is in conformance with the Biscayne Bay Management Plan.

30. **Conformance with the Miami-Dade County Manatee Protection Plan (MPP)** - The proposed project is consistent with the MPP as set forth in Number 1 above.

31. **Consistency with Miami-Dade County Criteria for Lake Excavation** – The proposed project does not involve lake excavation.

32. **Municipality Recommendation** – Pursuant to Section 24-48.2(II)(B)(7), Code of Miami-Dade County, Florida, a substantiating letter shall be submitted stating that the proposed project does not violate any zoning laws. Said letter will be submitted after the approval by the Board of County Commissioners and prior to the issuance of the Class I permit.

33. **Coastal Resources Management Line** - A coastal resources management line was not required for the proposed project, pursuant to Section 24-48.2(II)(B)(10)(b) of the Code of Miami-Dade County.

34. **Maximum Protection of a Wetland's Hydrological and Biological Functions** – The proposed project is not located within a wetland.

35. **Class I Permit Applications Proposing to Exceed the Boundaries Described in Section D-5.03(2)(a) of the Miami-Dade County Public Works Manual** – Not applicable.

The proposed project was also evaluated for compliance with the standards contained in Sections 24-48.3(2), (3), and (4) of the Code of Miami-Dade County, Florida. The following is a summary of how the standards relate to the proposed project:

24-48.3 (2) Dredging and Filling for Class I Permit – The proposed project complies with the following criteria:

(f) A physical modification necessary to protect public or private property.

24-48.3 (3) Minimum Water Depth Required for Boat Slips Created by the Construction or Placement of Fixed or Floating Docks and Piers, Piles and Other Structures Requiring a Permit Under Article IV, Division 1 of Chapter 24 of the Code of Miami-Dade County –. Although no structures for mooring are being proposed, all vessels associated with construction would be required to operate in sufficient water depth pursuant to the conditions of the Class I permit.

24-48.3 (4) Clean Fill in Wetlands – Not applicable.

BASED ON THE FOREGOING, IT IS RECOMMENDED THAT A CLASS I PERMIT BE APPROVED.

McKee Gray, Chief
Natural Resources Division

Rockell Alhale, Manager
Coastal Resources Section

Attachment F

South Florida Water Management District (SFWMD) Permit

South Florida Water Management District
Environmental Resource General Permit No. 13-106216-P
Date Issued: January 11, 2022

Permittee: Miami Dade County Department Of Transportation and Public Works
701 NW 1st Court
Miami, FL 33136

Project: NE 10th Avenue Bridge No. 874178 Replacement

Location: Miami-Dade County, See Exhibit 1

Application No. 211129-32314

Description: The proposed project includes the replacement of the NE 10th Avenue Bridge located in the City of Miami. The bridge will occupy the same general footprint of the existing bridge and is proposed to be approximately 8 feet wider (with the proposed widening on the east side) to accommodate proposed pedestrian features (sidewalks). The replacement bridge will be 40 feet wide by 45 feet long, equating to a total of 0.01 acres of bridge structure over the canal. Riprap is also proposed in the canal and is anticipated to provide artificial habitat for a variety of marine life as well as potential hard substrate for coral recruitment. The dredging and filling are anticipated to result in improved water quality in this end of the canal as there will no longer be a thick silty benthic substrate which can create turbid water and anaerobic conditions. The project will result in the dredging and subsequent filling of approximately 0.15 acres within the Ademar canal and 0.01 acres of mangrove sapling impacts. However. the mangroves to be impacted (saplings) will be relocated downstream of proposed project construction to avoid and minimize impacts. The proposed work in wetlands and other surface waters is under the 0.50-acre threshold for work in, on, above wetlands/surface waters authorized by this General Permit. The canal is tidally influenced canal and is located off of the Biscayne Bay Aquatic Preserve. However, the project area is not within the designated critical habitat for Johnson's seagrass (H. johnsonii) and no other benthic resources were observed onsite. Proper erosion and turbidity control mechanisms will be implemented during project construction to prevent any impacts to water quality outside the project area and the project will adhere to the Standard Manatee Conditions for In-Water Work, Eastern Indigo Snake Construction Conditions as well as the Sea Turtle and Smalltooth Sawfish Construction Conditions. In addition, The project area is within the range of the Florida bonneted bat (Eumops floridanus) (FBB), designated as endangered by the federal Endangered Species Act. The site is also within the South Florida Urban Bat Area designated by the U.S. Fish and Wildlife Service (USFWS). The project area is within a heavily developed urban area characterized by roadways and residential development. There does not appear to be suitable forage habitat on the site or in the vicinity, and roosting habitat appears minimal although the roadway bridge and a few mature trees in the project area could provide structure for roosting. The applicant conducted a visual survey for the presence of bats or evidence of bat use, and none were found. Considering the small project area and survey results, and in accordance with protocols outlined in the October, 2019, USFWS Florida Bonneted Bat Consultation Guidelines, no specific pre-construction monitoring is required. However, the District recommends that the applicant coordinate with the USFWS if FBB, their nests or roosts are observed on the site. State lands provided a title determination which recommends proprietary requirements that would normally apply to state owned lands not apply to this site.

Rule: **62-330.443, F.A.C.:** General Permit to the Florida Department of Transportation, Counties, and Municipalities for Minor Bridge Alteration, Placement, Replacement, Removal, Maintenance, and Operation

Expiration: January 11, 2027

Your application to use a General Environmental Resource Permit has been approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource General Permits.
- The attached Specific Conditions.
- All referenced Exhibits.

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

Certificate of Service

I hereby certify that this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the distribution list) on January 11, 2022 , in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (www.sfwmd.gov/ePermitting).



Barbara Conmy
Section Leader

General Conditions for All General Permits, 62-330.405, F.A.C.

1. The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit and shall subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. The general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit; and it does not authorize any violation of any other applicable federal, state, local, or special district laws (including, but not limited to, those governing the “take” of listed species).

3. This general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit.

4. The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution that violates state water quality standards.

5. Section 253.77, F.S., provides that a person may not commence any excavation, construction, or other activity involving the use of state-owned or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required consent, lease, easement, or other form of authorization authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on state-owned lands.

6. The authorization to conduct activities under a general permit may be modified, suspended or revoked in accordance with Chapter 120, F.S., and Section 373.429, F.S.

7. The general permit is not transferable to a new third party. To be used by a different permittee, a new notice to use a general permit must be submitted in accordance with rule 62-330.402, F.A.C. Activities constructed in accordance with the terms and conditions of a general permit are automatically authorized to be operated and maintained by the permittee and subsequent owners in accordance with subsection 62-330.340(1), F.A.C. Any person holding the general permit, persons working under the general permit, and owners of land while work is conducted under the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted project, activity, or the real property at which the permitted project or activity is located.

8. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to ensure conformity with the plans and specifications approved by the general permit.

9. The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in this general permit.

10. A permitee's right to conduct a specific activity under this general permit is authorized for a duration of five years.

11. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be implemented and maintained immediately prior to, during, and after construction as needed to stabilize all disturbed areas, including other measures specified in the permit to prevent adverse impacts to the water resources and adjacent lands. Erosion and sediment control measures shall be installed and maintained in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), available at https://www.flrules.org/Gateway/reference.asp?No=Ref-04227, and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), available at http://publicfiles.dep.state.fl.us/DEAR/Stormwater_Training_Docs/erosion-inspectors-manual.pdf.

12. Unless otherwise specified in the general permit, temporary vehicular access within wetlands during construction shall be performed using vehicles generating minimum ground pressure to minimize rutting and other environmental impacts. Within forested wetlands, the permittee shall choose alignments that minimize the destruction of mature wetland trees to the greatest extent practicable. When needed to prevent rutting or soil compaction, access vehicles shall be operated on wooden, composite, metal, or other non-earthen construction mats. In all cases, access in wetlands shall comply with the following:
    (a) Access within forested wetlands shall not include the cutting or clearing of any native wetland tree having a diameter four inches or greater at breast height;
    (b) The maximum width of the construction access area shall be limited to 15 feet;
    (c) All mats shall be removed as soon as practicable after equipment has completed passage through, or work has been completed, at any location along the alignment of the project, but in no case longer than seven days after equipment has completed work or passage through that location; and
    (d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.

13. Barges or other work vessels used to conduct in-water activities shall be operated in a manner that prevents unauthorized dredging, water quality violations, and damage to submerged aquatic communities.

14. The construction, alteration, or use of the authorized project shall not adversely impede navigation or create a navigational hazard in the water body.

15. Except where specifically authorized in the general permit, activities must not:
    (a) Impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands; or
    (b) Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to section 373.042, F.S., or a Works of the District established pursuant to section 373.086, F.S.

16. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all

activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S.

17. The activity must be capable, based on generally accepted engineering and scientific principles, of being performed and of functioning as proposed, and must comply with any applicable District special basin and geographic area criteria.

18. The permittee shall comply with the following when performing work within waters accessible to federally- or state-listed aquatic species, such as manatees, marine turtles, smalltooth sawfish, and Gulf sturgeon:
    (a) All vessels associated with the project shall operate at “Idle Speed/No Wake” at all times while in the work area and where the draft of the vessels provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
    (b) All deployed siltation or turbidity barriers shall be properly secured, monitored, and maintained to prevent entanglement or entrapment of listed species.
    (c) All in-water activities, including vessel operation, must be shut down if a listed species comes within 50 feet of the work area. Activities shall not resume until the animal(s) has moved beyond a 50-foot radius of the in-water work, or until 30 minutes elapses since the last sighting within 50 feet. Animals must not be herded away or harassed into leaving. All onsite project personnel are responsible for observing water-related activities for the presence of listed species.
    (d) Any listed species that is killed or injured by work associated with activities performed shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1(888)404-3922 and ImperiledSpecies@myFWC.com.
    (e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.

19. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any activity authorized by the general permit.

20. The permittee shall immediately notify the Agency in writing of any submitted information that is discovered to be inaccurate.

Specific Conditions for General Permits, 62-330.443, F.A.C.

1. (a) No dredging of access or work channels is authorized by this general permit;

   (b) Temporary fill roads shall not be constructed waterward of mean high water or ordinary high water;

   (c) All fill placed in wetlands, other than fill on which a bridge or approach is constructed, shall be regraded to the original wetland elevations and revegetated with native wetland species endemic to adjoining, undisturbed wetlands, within seven days of completion of construction. Within “clear zones,” revegetation shall be with native herbaceous species endemic to adjoining, undisturbed wetlands. During the five-year period following the initial planting or restoration of the site, these areas shall be maintained to ensure planted or naturally recruited native wetland species are surviving and growing, and that the areal coverage of exotic and invasive species constitutes less than 10% areal coverage;

   (d) Hydraulic openings of bridges shall be sufficient to prevent downstream scour, increased downstream water velocities, and increased flood elevations on the property of others;

   (e) Minimum horizontal and vertical navigational clearances on bridges over navigable waters of the United States shall be established in accordance with procedures outlined in Chapter 2 of the U.S. Coast Guard Bridge Administration Manual, COMDTINST M16590.5C, (March 26, 2004), and in no circumstance shall placement or replacement of a bridge result in a reduction of horizontal and vertical navigational clearances;

   (f) Replacement or modification of a bridge that includes changes in the configuration of the bridge and fill areas due to changes in materials, construction techniques, or meeting current construction codes or safety standards are authorized under this permit. Any connecting road expansion or alteration associated with such replacement or modification must be authorized by a separate general or individual permit under chapter 62-330, F.A.C., as applicable, before the start of construction; and

   (g) This general permit does not authorize the construction of additional travel lanes for motorized vehicles, except that any single-lane bridge may be widened to two travel lanes, provided the bridge widening does not exceed that reasonably necessary to match the existing travel lane alignment of a two-lane road. This permit does not authorize new corridors or roadway connections where there is no existing structure over wetlands or waterways.

Distribution List

George Burke, Stantec Consulting Services, Inc

Department of Regulatory and Economic Resources

Department of Regulatory and Economic Resources

Div of Recreation and Park - District 5

US Army Corps of Engineers - Permit Section

Miami-Dade County - RER

Miami-Dade County - RER

Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website (http://my.sfwmd.gov/ePermitting) and searching under this application number 211129-32314 .

Exhibit 1.0 Location Map

Exhibit 2.0 SWM Plans

Exhibit 3.0 Wetland and OSW Map

Exhibit 3.1 Manatee Construction Conditions

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.
- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.

MEMORANDUM
(Revised)

TO: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

DATE: February 21, 2024

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 5(A)

Please note any items checked.

_____	**"3-Day Rule" for committees applicable if raised**
_____	**6 weeks required between first reading and public hearing**
_____	**4 weeks notification to municipal officials required prior to public hearing**
_____	**Decreases revenues or increases expenditures without balancing budget**
_____	**Budget required**
_____	**Statement of fiscal impact required**
_____	**Statement of social equity required**
_____	**Ordinance creating a new board requires detailed County Mayor's report for public hearing**
✓	**No committee review**
_____	**Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____) to approve**
_____	**Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 5(A)
2-21-24

RESOLUTION NO. R-139-24

RESOLUTION TAKING ACTION ON A CLASS I PERMIT APPLICATION BY MIAMI-DADE COUNTY, THROUGH ITS DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS, FOR THE FILLING AND NON-MAINTENANCE DREDGING OF TIDAL WATERS AND RELATED WORK IN ASSOCIATION WITH THE REPLACEMENT OF A FIXED BRIDGE WITHIN ADEMAR CANAL ALONG NORTHEAST 10 AVENUE BETWEEN NORTHEAST 83 STREET AND NORTHEAST 84 STREET, MIAMI, MIAMI-DADE COUNTY, FLORIDA

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board having considered all the applicable factors contained within section 24-48.3 of the Code of Miami-Dade County, hereby approves the application by Miami-Dade County, through its Department of Transportation and Public Works, for the filling and non-maintenance dredging of tidal waters and related work in association with the replacement of a fixed bridge within Ademar Canal along Northeast 10 Avenue between Northeast 83 Street and Northeast 84 Street in the City of Miami, Miami-Dade County, Florida, subject to the conditions set forth in the memorandum from the Miami-Dade County Department of Regulatory and Economic Resources, a copy of which is attached hereto and made a part hereof. The issuance of this approval does not relieve the applicant from obtaining all applicable Federal, State, and local permits.

The foregoing resolution was offered by Commissioner **Juan Carlos Bermudez**, who moved its adoption. The motion was seconded by Commissioner **Kevin Marino Cabrera** and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman **aye**
Anthony Rodríguez, Vice Chairman **aye**

Marleine Bastien	**aye**	Juan Carlos Bermudez	**aye**
Kevin Marino Cabrera	**aye**	Sen. René García	**absent**
Roberto J. Gonzalez	**aye**	Keon Hardemon	**aye**
Danielle Cohen Higgins	**aye**	Eileen Higgins	**absent**
Kionne L. McGhee	**absent**	Raquel A. Regalado	**aye**
Micky Steinberg	**aye**		

The Chairperson thereupon declared this resolution duly passed and adopted this 21st day of February, 2024. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

JUAN FERNANDEZ-BARQUIN, CLERK

By: **Basia Pruna**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Abbie Schwaderer-Raurell
Christopher J. Wahl