

Date: June 21, 2023

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

Agenda Item No. 5(D)

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

Resolution No. R-503-23

Subject: Class I Permit Application by the University of Miami

Recommendation

I have reviewed the attached application for a Class I permit by the University of Miami 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 between 1239 Dickinson Drive and 5665 Ponce De Leon Boulevard, spanning the University Canal, Coral Gables, Miami-Dade County, Florida, in Commission District 7, which is represented by Commissioner Raquel A. Regalado.

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 Natural Resources Division Chief, McKee Gray, in the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM), will be responsible for monitoring the proposed permit.

Background

The subject Class I permit application requests authorization to install a fixed bridge over the University Canal to provide a connection within the University of Miami campus between 1239 Dickinson Drive and 5665 Ponce De Leon Boulevard, in the City of Coral Gables. The proposed project is required to be heard and decided upon by the Board at a public hearing because the scope of work is specifically referenced in Section 24-48.2 of the Code as work that shall be processed as a standard form application and so qualifies because this is the installation of a new bridge over tidal waters.

The University of Miami is proposing to install a new fixed pedestrian bridge to connect access to buildings within the campus. The work would involve installing foundations landward of the Mean

High Water Line on each side of the University Canal with a 60 foot long simple span bridge using prestressed concrete slabs with a 6 inch cast in place concrete topping. Additionally, steel sheet piling would be installed landward of the abutments to prevent soil erosion and undermining of the bridge foundations. The construction of the bridge would be done primarily from the uplands; however, to prevent construction debris from falling into the waterway, tarps would be placed underneath the bridge when casting the concrete overlay and during the installation of the railings. The bridge would measure approximately 16.3 feet wide by 60 feet long and would be installed at an elevation of +10 feet NGVD. Therefore, the proposed bridge is not reasonably anticipated to create an impediment to potential navigation or access along the canal.

In addition to the above-mentioned work the subject application also requests authorization to conduct work on two additional bridges along the canal, to include the removal of one of the existing pedestrian bridges and the replacement of railing and resurfacing of another pedestrian bridge. These types of work are 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.

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. The proposed project does not involve the installation of any in-water structures and the work would be done from the uplands. Furthermore, the Class I permit would require that all standard construction permit conditions regarding manatee protection be followed.

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 is not providing significant benthic habitat; therefore, shading impacts to benthic resources as a result of the bridge installation is not reasonably expected. In addition, the work would be done primarily from the uplands and there would be no components installed within tidal waters. There are red mangroves growing adjacent to the project footprint; however, no impacts are proposed. Adverse environmental impacts are not reasonably expected as a result of this project; therefore, no mitigation is required for the installation of the pedestrian bridge.

Please note that there are no riparian owners within 300 feet of the proposed project other than the University of Miami. Therefore, no other riparian owners need to be notified.

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. Please find attached a DERM Project Report which also 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 and Affidavit of Ownership
- Attachment B: Owner/Agent Letter, Engineer Letter and Project Sketches
- Attachment C: Zoning Memorandum
- Attachment D: DERM Project Report

Attachment A
Class I Permit Application and Affidavit of Ownership



Class I Permit Application

FOR DEPARTMENTAL USE ONLY

Date Received:

Application Number:

Application Fee:

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

1. Applicant Information:

Name: Jessica Brumley, Vice President of Facilities Operating & Planning, University of Miami

Address: 1535 Levante Ave.

Coral Gables, FL Zip Code: 33146

Phone #: 305-284-5660

Fax#:

Email: jbrumley@miami.edu

* 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: Christy Brush, Moffatt & Nichol, Inc.

Address: 2937 SW 27th Ave, Suite 101A

Miami, FL Zip Code: 33133

Phone #:

Fax #:

Email: cbrush@moffattnichol.com

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

Folio #(s): 03-4130-015-0020;

03-4130-015-0010

Latitude: 25°43'2.30"N

Longitude: 80°16'49.13"W

Street Address: 5665 Ponce De Leon Blvd.; 1239 Dickson Dr. C870

Section: 30

Township: 54S

Range: 41E

In City or Town: Coral Gables, FL 33146

Near City or Town:

Name of waterway at location of the activity: University Waterway (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: Demolition of pedestrian bridge and construction of a new bridge over University Waterway.

Estimated project cost = \$ 459,720

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): N/A

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
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SFWMD

TBD

8. Contractor Information (If known):

Name: TBD 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

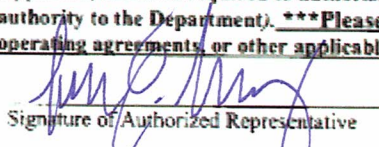
Signature of Applicant _____ Print Applicant's Name _____ Date _____

B. IF APPLICANT IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON

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

University of Miami Not for Profit Corp 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.*****

 _____ Jessica Bromley VP, Facilities Ops. & Planning 12.9.2022
 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 _____

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 5665 Ponce De Leon Blvd.; 1239 Dickson Dr.; Coral Gables FL 33124 Miami-Dade
County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. 03-4130-015-0020; 03-4130-015-0010.

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.)

University of Miami

Not for Profit Corp.

Florida

Print Name of Owner (Enter the complete name as registered)

Type (Corp. LLC, LLP, etc.)

State of Registration/Incorporation

1535 Levante Ave., Coral Gables, FL 33146

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] Jessica Bromley VP, Facilities Ops & Planning 12-9-21
Signature of Authorized Representative Print Authorized Representative's Name Title Date

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

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 submerged lands abutting Folio Nos. 03-4130-015-0020 and 03-4130-015-0010 Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. N/A

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.)

University of Miami

Not for Profit Corp.

Florida

Print Name of Owner (Enter the complete name as registered)

Type (Corp, LLC, LLP, etc.)

State of Registration/Incorporation

1535 Levante Avenue, Coral Gables, Florida 33146

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 _____ Jessica Brumley _____ VP, Facilities Ops. + Planning 10.25.22 _____
Print Authorized Representative's Name Title Date

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: 11/22/22

Miami-Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, FL 331366

RE: Class I Standard Form Permit Application Number CLI-2021-0714

By the attached Class I Standard Form permit application with supporting documents, I, Jessica Brumley on behalf of the University of Miami, am the permit applicant and hereby request permission to perform the work associated with Class I Permit Application CLI-2021-0714. 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 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,

A handwritten signature in black ink, appearing to read 'Jessica Brumley', is written over a horizontal line.

Jessica Brumley on behalf of the University of Miami, Permit Applicant

ENGINEER LETTER OF CERTIFICATION

Date: November 29, 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-2021-0714

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,

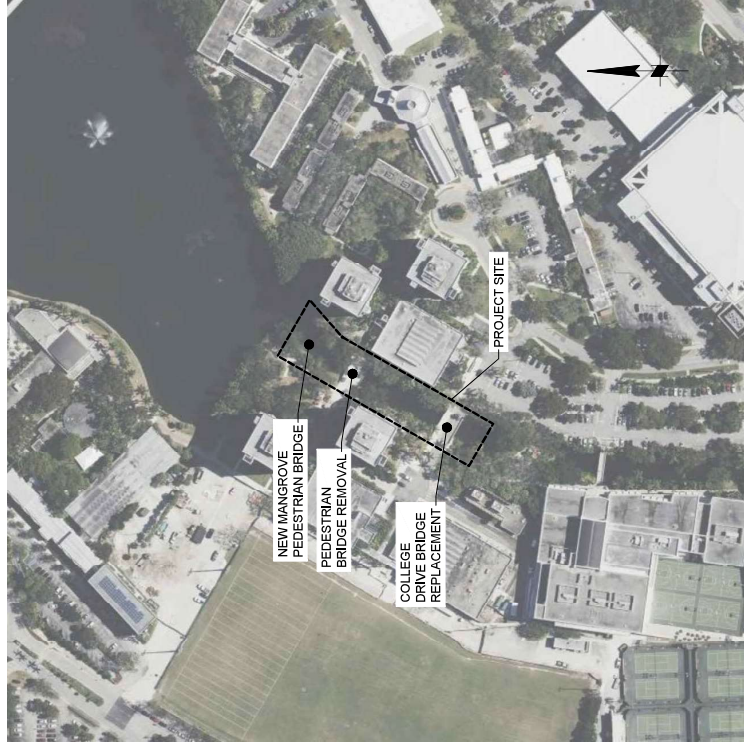
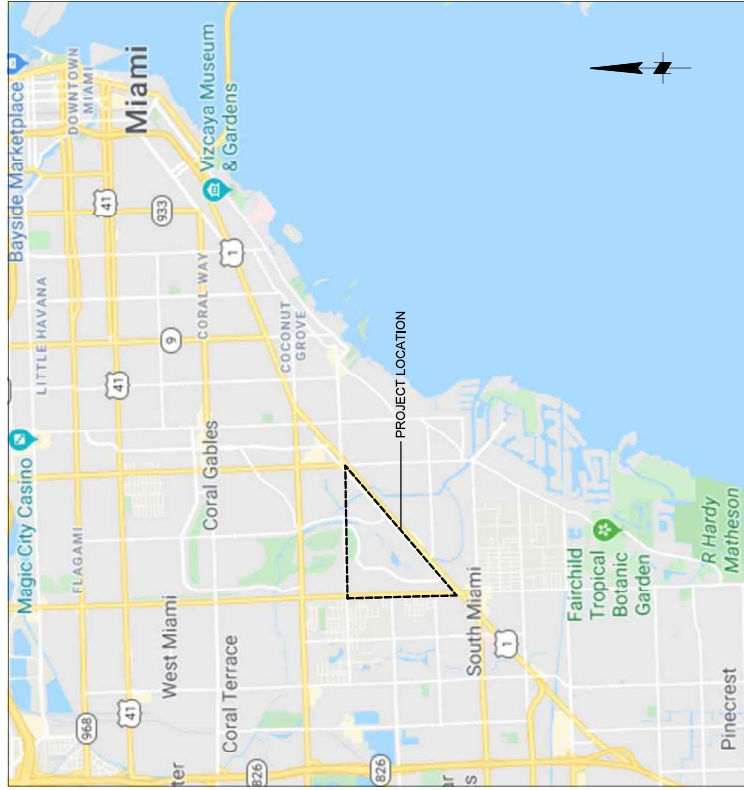
Terry W Coker
2022.11.29 17:59:04 -05'00'

Moffatt & Nichol
Terry W. Coker, P.E.
Senior Structural Engineer .
P.E. # 55018

COLLEGE DRIVE BRIDGE IMPROVEMENTS PEDESTRIAN BRIDGE DEMOLITION MANGROVE BRIDGE PLANS

**UNIVERSITY OF MIAMI - CORAL GABLES, FL
CENTENNIAL VILLAGE - PHASE A AND B
SECTION 30, TOWNSHIP 54 SOUTH, RANGE 41 EAST**

PROJECT ADDRESS:
1231 THEO DICKINSON DR
CORAL GABLES, FL 33146



SHEET No.	SHEET TITLE
B0-01	BIDERS SITE PLAN
B0-02	BRIDGE SITE PLAN
B0-03	BRIDGE DRIVE BRIDGE RENOVATION
B0-04	COLLEGE DRIVE SUB GRAB AND DECK ELEVATIONS
B0-05	COLLEGE DRIVE RAILING DETAILS
B0-06	COLLEGE DRIVE APPROACH ISLANDS
B0-07	BRIDGE DRIVE APPROACH ISLANDS
B0-08	MANAGROVE DRIVE PLAN AND ELEVATION
B0-09	MANAGROVE SUPERSTRUCTURE LAYOUT SECTION
B0-10	MANAGROVE REPORT OF SPOT BORINGS
B0-11	MANAGROVE BRIDGE FOUNDATION LAYOUT
B0-12	MANAGROVE BRIDGE FOUNDATION ELEVATION
B0-13	MANAGROVE BRIDGE END BENT DETAILS
B0-14	MANAGROVE BRIDGE END BENT DETAILS

SHEET No.	SHEET TITLE	DRAWING INDEX
BD-15	MANGROVE CANAL EMBANKMENT WALL (CAP 1 OF 2)	
BD-16	MANGROVE CANAL EMBANKMENT WALL (CAP 2 OF 2)	
BD-17	MANGROVE FRAMING CANAL (CAP 1 OF 2)	
BD-18	MANGROVE FRAMING CANAL (CAP 2 OF 2)	
BD-19	MANGROVE SUPERSTRUCTURE PLAN	
BD-20	MANGROVE SUPERSTRUCTURE SECTION	
BD-21	MANGROVE FLOOR SLAB BEAM - A/B	
BD-22	MANGROVE FLOOR SLAB BEAM - C/D	
BD-23	MANGROVE FLOOR SLAB BEAM - D/E	
BD-24	MANGROVE FLOOR SLAB BEAM TYPICAL DETAILS AND NOTES (1 OF 2)	
BD-25	MANGROVE FLOOR SLAB BEAM TYPICAL DETAILS AND NOTES (2 OF 2)	
BD-26	MANGROVE BARBET DETAILS	
BD-27	MANGROVE BARBET DETAILS	
BD-28	MANGROVE REINFORCING BAR LIST	

VICINITY MAP
SCALE: NTS

LOCATION MAP
SCALE: NTS

THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Terry W Coker

2022.10.20 20:08:37 -04'00"
ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE SIGNATURE
MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MOFFATT & NICHOL
2937 SW 27th AVE., SUITE 101A
MIAMI, FL 33133
CERTIFICATE OF AUTHORIZATION No: 45777
TERRY W. COKER, P.E. No 55018

PERMIT PLANS - NOT FOR CONSTRUCTION

[illegible]

GENERAL NOTES

- [illegible]

11. UTILITIES:

- a. UNDERGROUND UTILITIES SHOWN IN THE BRIDGE PLANS ARE AT APPROXIMATE LOCATIONS. FOR ADDITIONAL INFORMATION, REFERENCE CIVIL DRAWINGS AND UTILITY PLANS.
 - b. REFER TO SURVEY PLANS FOR LOCATION OF ADDITIONAL UTILITIES.
 - c. VERIFY LOCATION OF UTILITIES BEFORE COMMENCING CONSTRUCTION.
12. PAVING OF WORK
- a. CONTROL PAVING AND PROGRESS OF THE WORK SHALL CONFORM WITH THE TRAFFIC CONTROL PLAN AND THE PAVING PLAN.
13. SURFACE FINISHES
- a. PROVIDE CURBS APPLIED WITH COATING TO EXPOSED CONCRETE SURFACES OF THE BRIDGE AND THE RAMP AND OVERPASS WALLS.
14. PROTECTION OF EXISTING STRUCTURES
- a. THE PLANS REQUIRE FOUNDATION CONSTRUCTION TO OCCUR IN CLOSE PROXIMITY TO EXISTING STRUCTURES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SUCH UTILITIES IN ACCORDANCE WITH THE PROVISIONS OF SECTION 455 OF THE FOOT SPECIFICATIONS.
 - b. THE CONTRACTOR IS REQUIRED TO MONITOR STRUCTURES FOR SETTLEMENT AND VIBRATION IN ACCORDANCE WITH THE PROVISIONS OF SECTION 456 OF THE FOOT SPECIFICATION.
 - c. THE CONTRACTOR IS REQUIRED TO EMPLOY A QUALIFIED SPECIALTY ENGINEER TO SURVEY ALL STRUCTURED OR PORTION OF STRUCTURES IN ACCORDANCE WITH THE PROVISIONS OF SECTION 455 OF THE FOOT SPECIFICATION.
 - d. THE CONTRACTOR IS REQUIRED TO EMPLOY A QUALIFIED SPECIALTY ENGINEER TO MONITOR AND RECORD VIBRATION OF ALL STRUCTURES IN ACCORDANCE WITH THE PROVISIONS OF SECTION 456 OF THE FOOT SPECIFICATION.
 - e. EXISTING STRUCTURES THAT HAVE BEEN IDENTIFIED FOR SETTLEMENT AND/OR VIBRATION MONITORING ARE LISTED IN TABLE A BELOW STRUCTURES LIST TO BE VERIFIED.
- NOTE: REFERENCE TO THE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.

SURVEY

1. UPLAND SURVEY PROVIDED BY ATKINS.
2. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO FLORIDA STATE PLAIN EAST ZONE (NAD 83).
3. ELEVATIONS ARE IN FEET AND REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NOV20).
4. MEAN HIGH WATER (MHW) SURVEY PROVIDED BY ATKINS BASED ON SITE SPECIFIC MEASUREMENTS. MHW ESTABLISHED AT +1.02' NOV20 24.

TURBIDITY BARRIERS AND TESTING

1. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TURBIDITY CONTROL CURTAINS AROUND THE WORK AREA. THE CONTRACTOR HAS THE OPTION TO LOCATE THE ENTIRE INTERIOR OF THE SITE, INCLUDING THE EXISTING AND PROPOSED CONSTRUCTION AREAS, WITHIN THE TURBIDITY CONTROL CURTAIN. THE CONTRACTOR SHALL MAINTAIN SUCH CURTAINS AT ALL TIMES IN THE AREAS WHERE WORK IS IN PROGRESS.
2. TURBIDITY BARRIERS TO BE MANUFACTURED IN ACCORDANCE WITH FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 102.
3. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MONITOR THE TURBIDITY LEVELS WITHIN THE TURBIDITY CONTROL CURTAINS AND CONSTRUCTION METHODS TO MAINTAIN TURBIDITY MONITORING AREAS IN ACCORDANCE WITH THE PERMITS.
4. ALL EXISTING INDEX NO. 102'S SHALL BE IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION 104 AND STANDARD INDEX NO. 102'S OF THE FOOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
5. CONTRACTOR SHALL SUBMIT TURBIDITY CONTROL PLAN FOR REVIEW AND APPROVAL. PRIOR TO CONSTRUCTION IN ACCORDANCE WITH REGULATORY PERMITS.
6. TURBIDITY SHALL BE MONITORED AS OUTLINED IN THE REGULATORY PERMITS AND CONSTRUCTION DRAWINGS.
7. TURBIDITY CURTAINS SHALL BE DEPLOYED AS SHOWN ON THE TURBIDITY CONTROL PLAN. SEE PERMIT DRAWINGS.
8. CONTRACTOR SHALL DEPLOY TURBIDITY CURTAINS AS SHOWN ON THE PLANS.
9. TURBIDITY CURTAINS SHALL NOT BE RELOCATED/REMOVED FROM AREA UNTIL TURBIDITY LEVELS WITHIN THE TURBIDITY CONTROL CURTAINS ARE REDUCED TO SYSTEM BACKGROUND LEVELS IN ACCORDANCE WITH THE PERMITS.
10. TURBIDITY CURTAINS SHALL BE SIZED WITH PROTECTIVE STEEL OR THINER BULKHEAD AT SURFACE SPACING TO MAINTAIN CONFIGURATION. A WEEDY SYSTEM CAN ALSO BE UTILIZED IF PRACTICAL.
11. FULL LENGTH CURTAINS TO BE DEPLOYED AS REQUIRED.
12. SHEET PILE #8TEEL TO BE ASTM A706, GRADE B AND SHALL BE COATED IN ACCORDANCE WITH SPECIFICATIONS SECTION 5502.
13. SHEET PILES SHALL BE SIZED TO PROVIDE ADEQUATE PROTECTIVE COVER FOR SHEET PILE SECTION PROPERTIES IF COLD ROLLED.

STEEL SHEET PILE

12. SHEET PILE STEEL TO BE ASTM A709, GRADE 50 AND SHALL BE COATED IN ACCORDANCE WITH SPECIFICATIONS SECTION 560.
13. HOT-ROLLED SECTIONS WERE ASSUMED FOR SHEET PILE SECTION PROPERTIES. IF COLD ROLLED STEEL IS USED INCREASE SECTION PROPERTIES BY 20%.

DEMOLITION

1. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE DEMOLITION STRUCTURES.
2. PRIOR TO GENERAL DEMOLITION, THE CONTRACTOR SHALL SAWCUT WHERE NOTED OR OTHERWISE IDENTIFIED BY THE ENGINEER, UNTIL IT BREAKS AWAY FROM ALL CONNECTING UNITS TO THE REMAINING STRUCTURE.
3. ANY DAMAGE INCURRED IN EXERCISE OF THE CONTRACT TO ANY PART OF THE PROPERTY'S UTILITIES (INCLUDING UTILITIES NOT SPECIFICALLY DESIGNATED FOR DEMOLITION) SHALL BE REPAIRED, REPLACED AND/OR RECONSTRUCTED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER AT THE PERSEUS OF THE CONTRACTOR.
4. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO, BRICK, CONCRETE, BLOCK, REBAR, AND SMALL DEBRIS, SHALL BE COMPLETELY REMOVED AND DISPOSED BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE MATERIALS TO BE EXPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
6. ALL REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE ENGINEER & OWNER PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
7. DEMOLITION CONSTRUCTION SHALL BE LIMITED TO THE EXISTING CONCRETE FOUNDATION, EXISTING CONSTRUCTION OF MATERIALS OR OTHER MATERIALS BEING REMOVED.
8. ALL CONCRETE SHALL BE REMOVED TO BE STEEL REINFORCED.
9. THE TERMS "DEMOLITION" AND "REMOVAL" ARE INTERCHANGEABLE WITH THESE DOCUMENTS AND SHALL BE CONSIDERED TO BE THE SAME.
10. ALL MATERIALS AND DEBRIS TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND ORDINANCES AND BE DISPOSED OF THEIR OFFSITE UNTO IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND ORDINANCES.
11. ALL MATERIALS TO BE REMOVED SHALL BE REMOVED IN ACCORDANCE WITH THE DRAWINGS AND BE REMOVED BY THE CONTRACTOR AND THAT ARE TO REMAIN THE PROPERTY OF THE OWNER AND BE LEFT IN A STORAGE SITE, AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL REMAINING UTILITIES AND THE REMOVAL OF ALL MATERIALS TO BE REMOVED.
12. CONTRACTORS TO LOCATE UTILITIES, THE PROPERTY, ETC., IS UNOCCUPIED UTILITIES SHALL BE CAPPED PER PROJECT REQUIREMENTS. NOTIFY THE ENGINEER OF ANY CONFLICT.

GEOTECHNICAL REPORT

FOR SOIL INFORMATION REFER TO: GEOTECHNICAL ENGINEERING STUDY, UNIVERSITY OF MIAMI MANGROVE BRIDGE, CORAL GABLES CAMPUS, CORAL GABLES, FLORIDA. LANGAN PROJECT NO.: 360234703 DATED NOVEMBER 20, 2021.

ESTIMATED QUANTITIES

ESTIMATED QUANTITIES						
PAY ITEM NO	DESCRIPTION	UNIT	MANGROVE BRIDGE	COLLEGE DATE BRIDGE		
000-00-0	ARCHITECTURAL RAILS	LS/LF	1/120	1/110		
000-00-0	ARCHITECTURAL CONCRETE	LS/LF	1/126	1/154		
110-3	REMOVAL OF EXISTING STRUCTURE BRIDGES	LS	1	1		
	STABILIZATION TYPE B	SY	40	105		
400-2-10	CONCRETE CLASS II APPROACH SLAB	CY	13.3	38.9		
400-2-17	CONCRETE CLASS II CURB/OPPING WITH SHRIKAAZE REDUCING ADMIXTURE	CY	27.8	35.7		
400-4-5	CONCRETE CLASS IV SUBSTRUCTURE	CY	12.4	N/A		
400-4-11	CONCRETE CLASS IV RETAINING WALLS	CY	9.6	N/A		
400-4-18	PLAIN NEOPRENE BEARING PAIRS	LB	1.3	N/A		
410-1-3	REINFORCING STEEL - RETAINING WALLS	LB	1142	N/A		
410-4-1	REINFORCING STEEL - SUPERSTRUCTURE	LB	9100	5575		
410-4-16	REINFORCING STEEL - WALLS	LB	1880	N/A		
410-4-19	REINFORCING STEEL - APPROACH SLABS	LB	1780	6600		
400-4-21	PRESTRESSED BEAM / FIBER GLASS STEEL WITH 60% S1	LF	238	N/A		
400-4-22	PRESTRESSED CONCRETE FILING, 14" SQ	LF	275	N/A		
400-4-34	STEEL SHEET PILING, FURNISH & INSTALL PERMANENT	SF	1600	N/A		
400-4-33-3	TEST FILE- PRESTRESSED CONCRETE, 14" SQ	LF	60	N/A		
400-4-102	BRIDGE DECK EXPANSION JOINT NEW CONSTRUCTION F&I POURED JOINT WITH BACKER ROD	LF	33	68		
400-4-111		SY	123	N/A		
500-4-1	PAVERS, ARCHITECTURAL (ROADWAY)	SY				

QUANTITIES - BRIDGE DEMO

PAY ITEM NO	DESCRIPTION	UNIT	Quantity
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	LS / SF	1 / 2700

PERMIT PLANS - NOT FOR CONSTRUCTION

ABBREVIATIONS

- | | |
|----|--|
| A | AMERICAN CONCRETE INSTITUTE |
| B | APPROXIMATE |
| C | CONCRETE SOCIETY FOR TESTING MATERIALS |
| D | BASE CASE |
| E | BACKLASH |
| F | FOUNDATION |
| G | CONSTRUCTION JOINT |
| H | CUBIC FEET |
| I | GREEN-SPACE PIPE LINER |
| J | CENTURINE |
| K | CORRUGATED METAL PIPE |
| L | CONCRETE |
| M | CONTINUOUS |
| N | CONTINUED |
| O | CENTERS |
| P | CUBIC YARDS |
| Q | DETAIL |
| R | DEMOLITION |
| S | DISCONTINUOUS |
| T | DECK JOINT SEAL |
| U | EAST |
| V | WAS |
| W | EACH FACE |
| X | EXPANSION JOINT |
| Y | END POINT |
| Z | EQUAL |
| AA | DESIGN SUPPORT |
| AB | EACH WAY |
| AC | EXHIBIT |
| AD | FINISHED FLOOR ELEVATION |
| AE | FLUSHED FOR TRANSPORTATION |

AVANGAN AM/PEZCO CORPORATE CENTER 1000 W. 10TH COURSE, SUITE 200 MIAMI, FL 33136 TEL 305/576-6100	Endscape Arch. (Record) 3500 S.W. 36TH AVENUE, SUITE 200 MIAMI, FL 33155 TEL 305/442-0698	Structural Engineers LISB & NITRAY 10000 N. W. 31ST AVENUE, SUITE 400 MIAMI, FL 33150 TEL 305/442-0700	Bridge Engineers HOFFMAN & NICHOL 3307 SW 27th AVE., SUITE 150A MIAMI, FL 33133 TEL 305/351-1604 FL REG 4887	MT Engineers LC Engineering Solutions 900 N.W. KENNEDY BLVD., SUITE 200 MIAMI, FL 33069 TEL 305/430-0110
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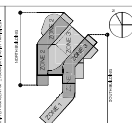


UNIVERSITY OF MIAMI
CENTENNIAL VILLAGE
BRIDGE DRAWING
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER C-7751

ME Engineers
141 METRO BLVD.
SUITE 200
MIAMI, FL 33136
TEL: 305.446.9555
WWW.ME-ENGINEERS.COM

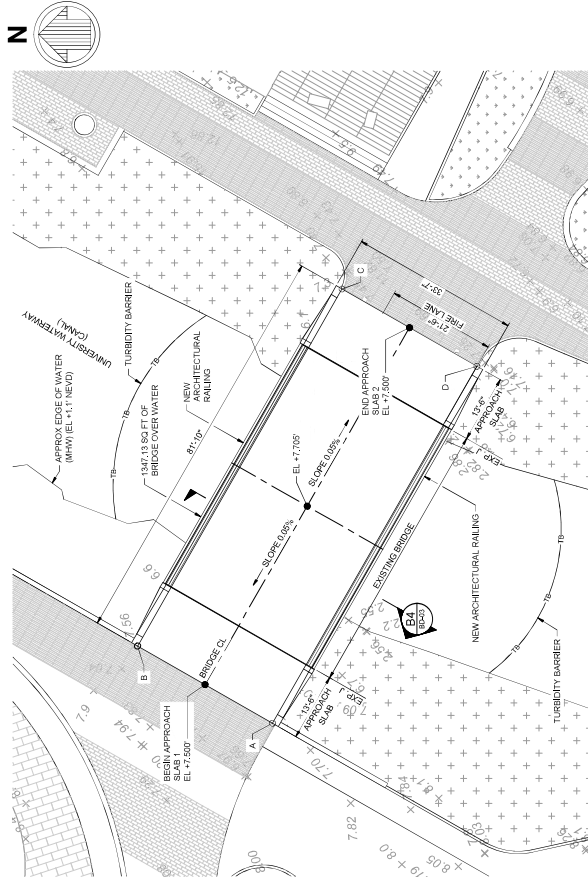
ARCHITECTS
WDO
WILLIAM DOUGLAS
ARCHITECTS
1000 BAYVIEW BLVD., SUITE 100
MIAMI BEACH, FL 33139
TEL: 305.446.9555
WWW.WDOARCHITECTS.COM

T.W. COKER
FLORIDA P.E. No. 55018
MOFFATT & NICHOL
Terry W Coker
2022.10.20 20:11:07
-04'00"

[illegible]

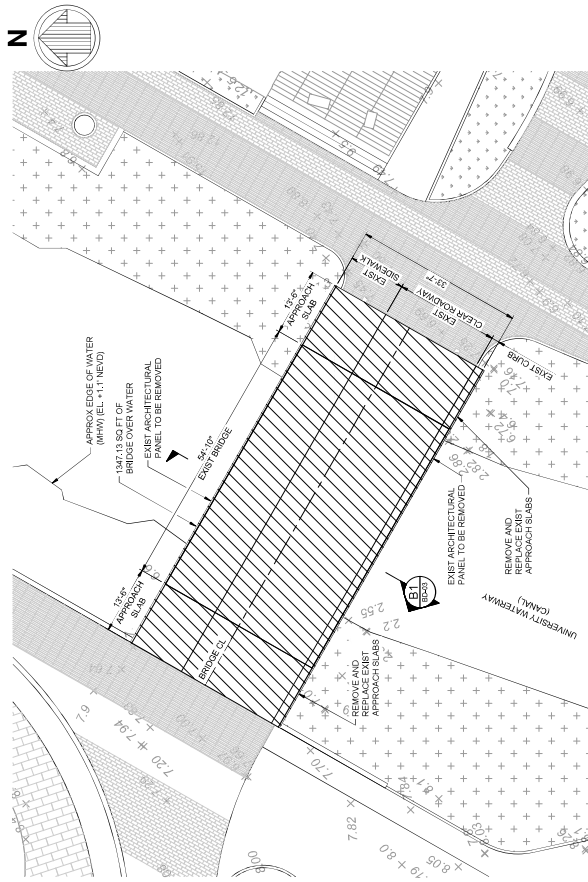
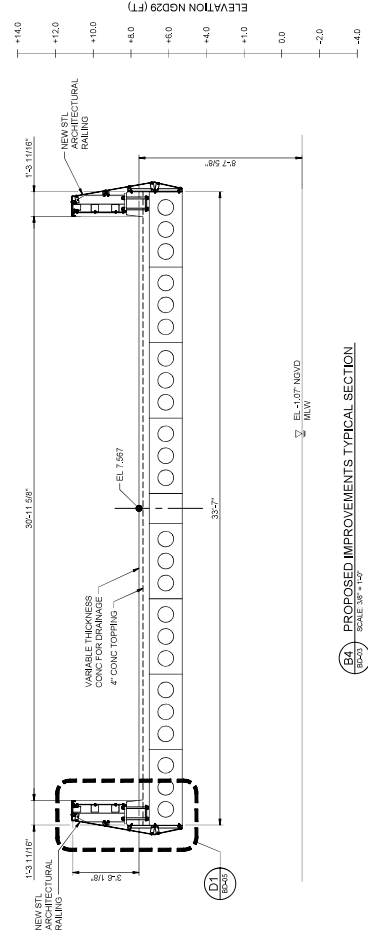
GENERAL NOTES

VWD 1249	10.03.2022
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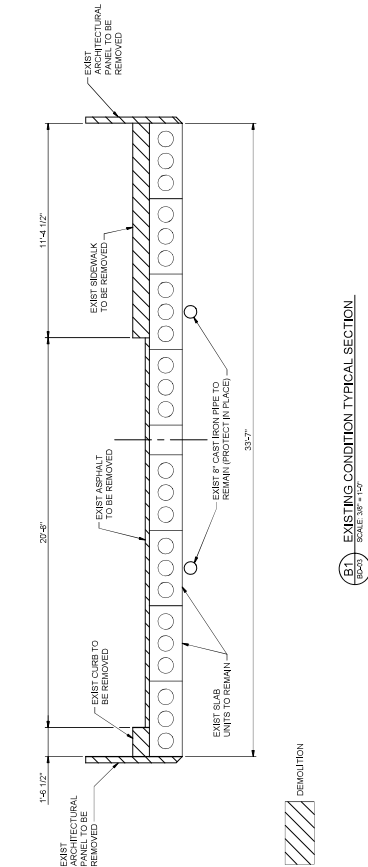


BRIDGE COORDINATES		
	NORTHING	EASTING
A	503388.01	892956.59
B	503344.84	892971.94
C	503374.18	893042.93
D	503347.35	893027.57

COORDINATES ARE GIVEN IN USA
FLORIDA DATUM, FLORIDA EAST ZONE
US FEET.

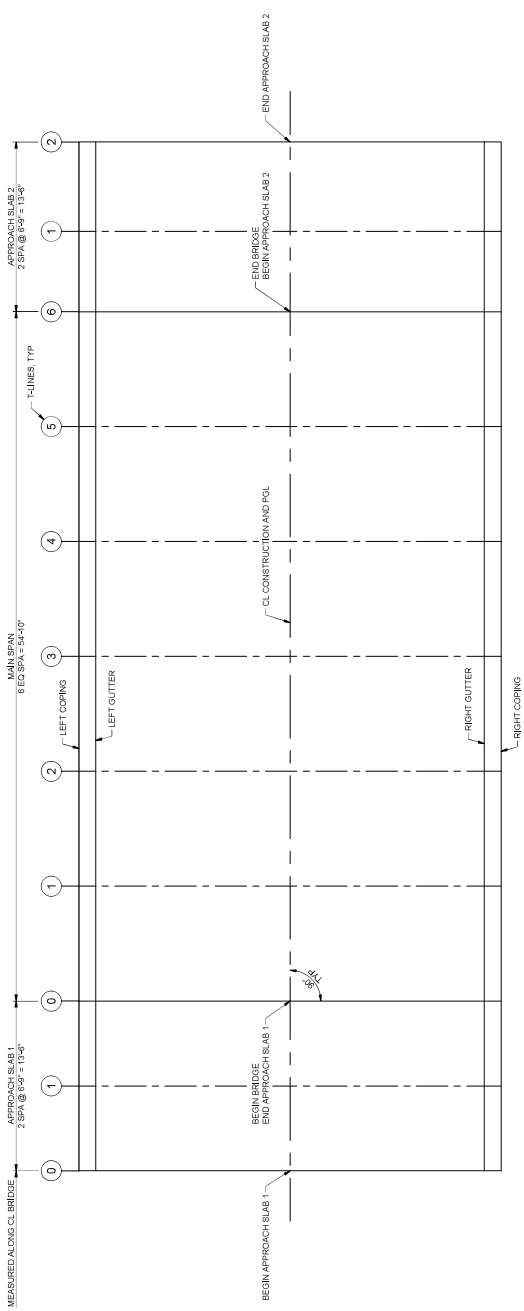
COLLEGE DRIVE BRIDGE EXISTING CONDITIONS PLAN
 APRIL 1, 2012 1:42 PM

B4 PROPOSED IMPROVEMENTS TYPICAL SECTION
SCALE: 1" = 3'-0" (1" = 10')

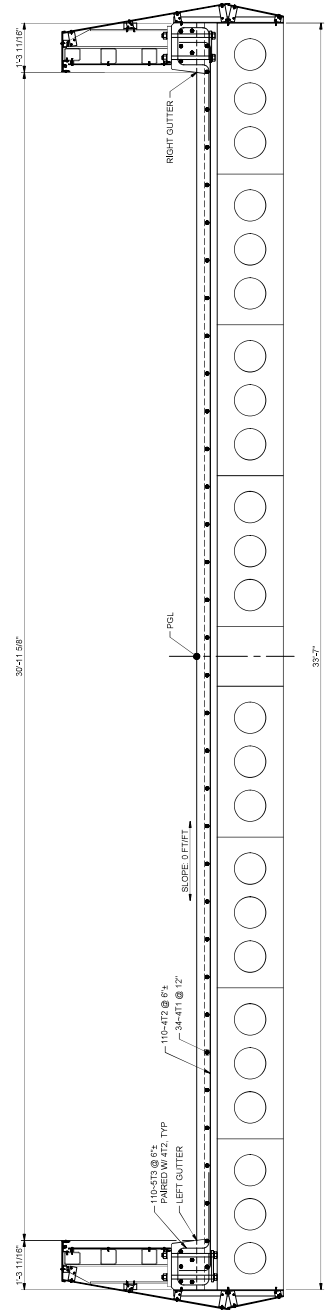


B1 EXISTING CONDITION TYPICAL SECTION

PERMIT PLANS - NOT FOR CONSTRUCTION



C2 PLAN SHOWING LOCATION OF FINISH ELEVATION POINTS
SCALE: 1" = 1'-0"



A1 TYPICAL SECTION
BD-04
SCALE: 3/4" = 1'-0"

BILL OF REINFORCING STEEL										
MARK		LENGTH	NO OF BARS	TYP	B	C	D	E	F	G
4	T1	54"	34	1	54"					
4	T2	34"	110	11	32"	1-2"	1'-2"			
5	T3	5'-2"	220	25	9 1/2"	11 3/4"	0"	9 1/2"	10"	2'-0"
5	T4	54"	10	1	54"					

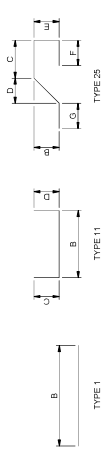
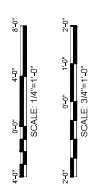
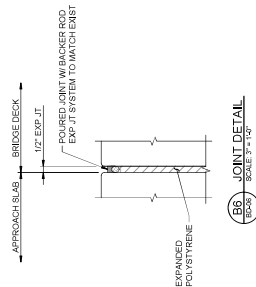
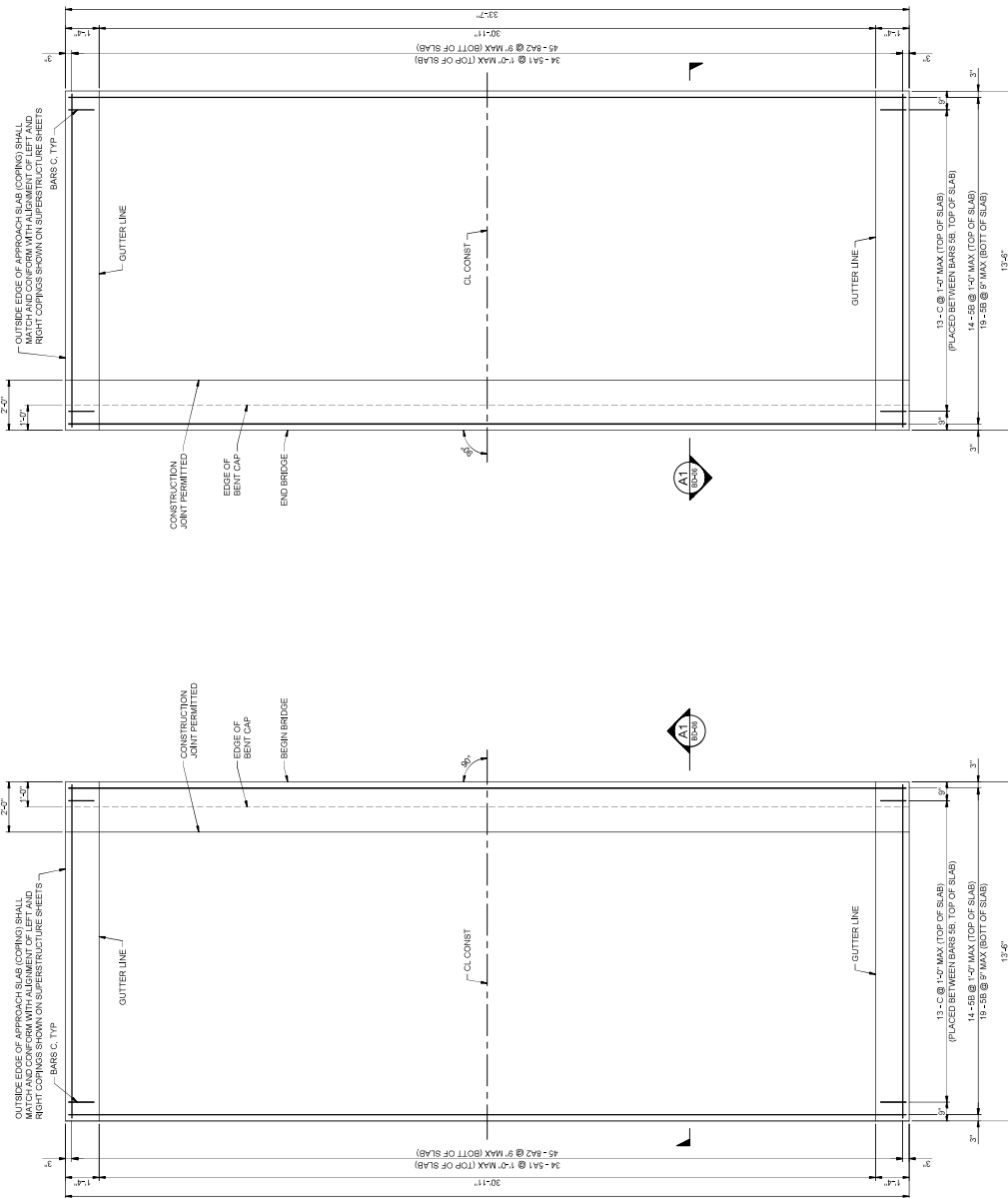


TABLE OF FINISH GRADE ELEVATIONS									
LOCATION	APPROACH SLAB 1			MED SPAN			APPROACH SLAB 2		
	0	1	2	0	1	2	3	4	5
LEFT GUTTER	7.500	7.504	7.507	7.613	7.659	7.705	7.659	7.613	7.567
CLL CONST									
COLLEGE DRIVE	7.500	7.504	7.507	7.613	7.659	7.705	7.659	7.613	7.567
RIGHT GUTTER	7.500	7.504	7.507	7.613	7.659	7.705	7.659	7.613	7.567

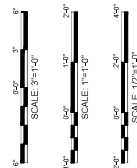
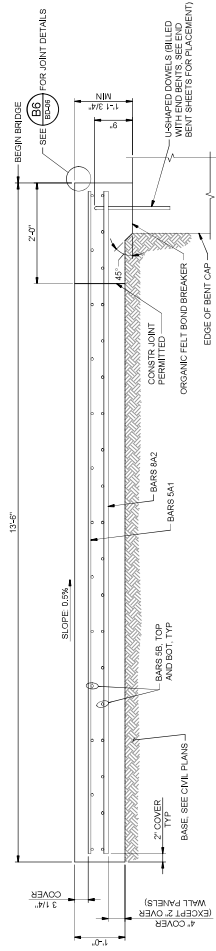


PERMIT PLANS - NOT FOR CONSTRUCTION

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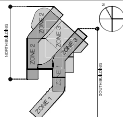


BILL OF REINFORCING STEEL						
MARK		LENGTH	NO OF BARS	B	C	D
SIZE	DES					
APPROACH SLAB 1 & 2						
NO. REQUIRED = 2						
5	A1	13'-0"	34	13'-0"		
8	A2	13'-0"	45	13'-0"		
5	B	33'-11"	33	33'-11"		
5	C	5'-0"	26	5'-0"		



PERMIT PLANS - NOT FOR CONSTRUCTION

BD-06

COLLEGE DRIVE
APPROACH
CLARK

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 07-26-2008 BY 60322 UCBAW/SJS

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UNIVERSITY of MIAMI
CENTENNIAL VILLAGE
BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-751

JE Engineers
MTA Engineering
411 MEETING ST.
PROSPECT, KY 40069
(502) 331-3065

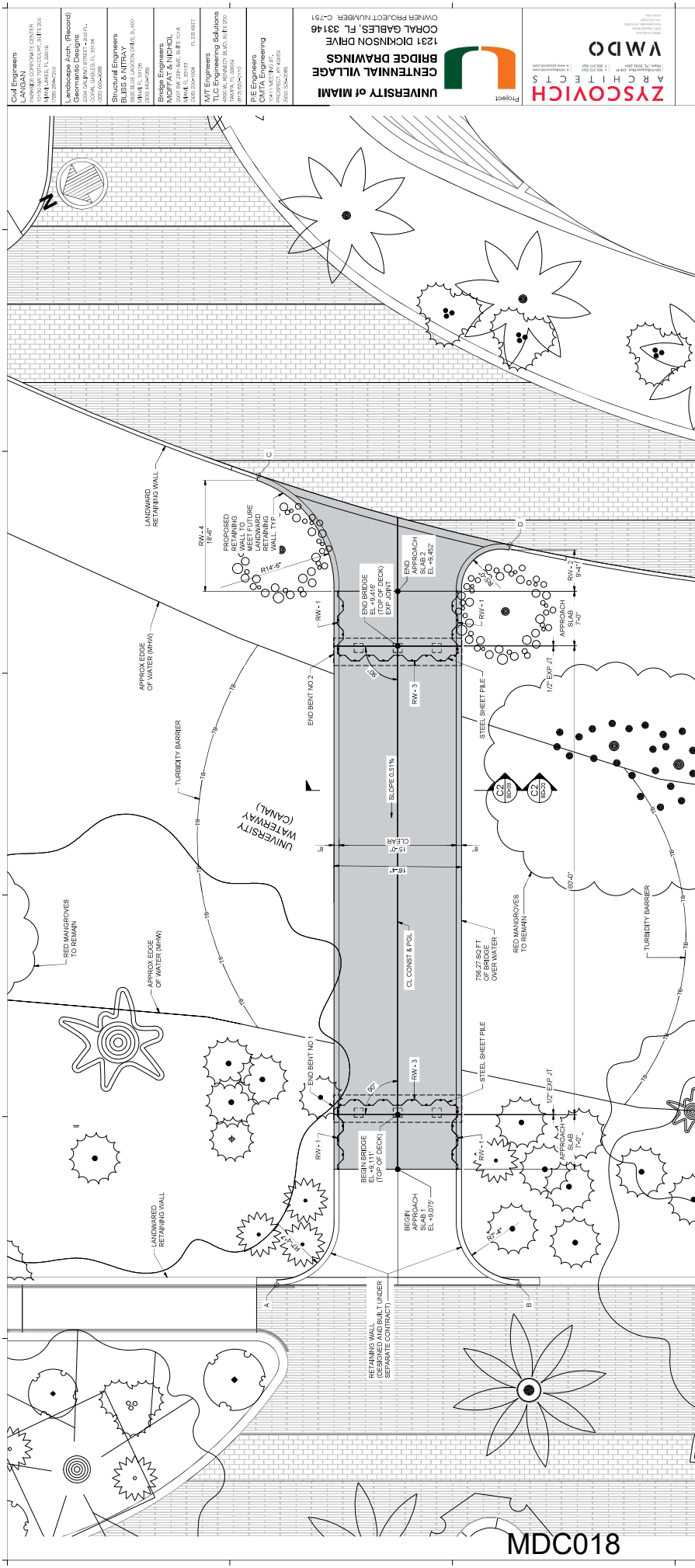
MAI, FL 33123
3061 230-1024
FL EB 4877

M/T Engineers
LC Engineering Solutions
3900 W. KENNEDY BLVD, SUITE 200
MIAMI, FL 33060

LISS & NITRAY
3335 BLUE LAGOON DRIVE, S. 400
JMWI, FL 33126
003 442-7036

andscape Arch. (Record)
Geometric Designs
334 GALIANO STREET - 2nd FL.
OPAL GABLES, FL 33134
1051 605-9288

Civil Engineers
ANGAN
ARKSIDE CORPORATE CENTER
15150 NW 70TH COURT, SUITE 200



BRIDGE COORDINATES		
	NORTHING	EASTING
A	503673.14	893119.90
B	503646.24	893104.49
C	503023.63	893211.01

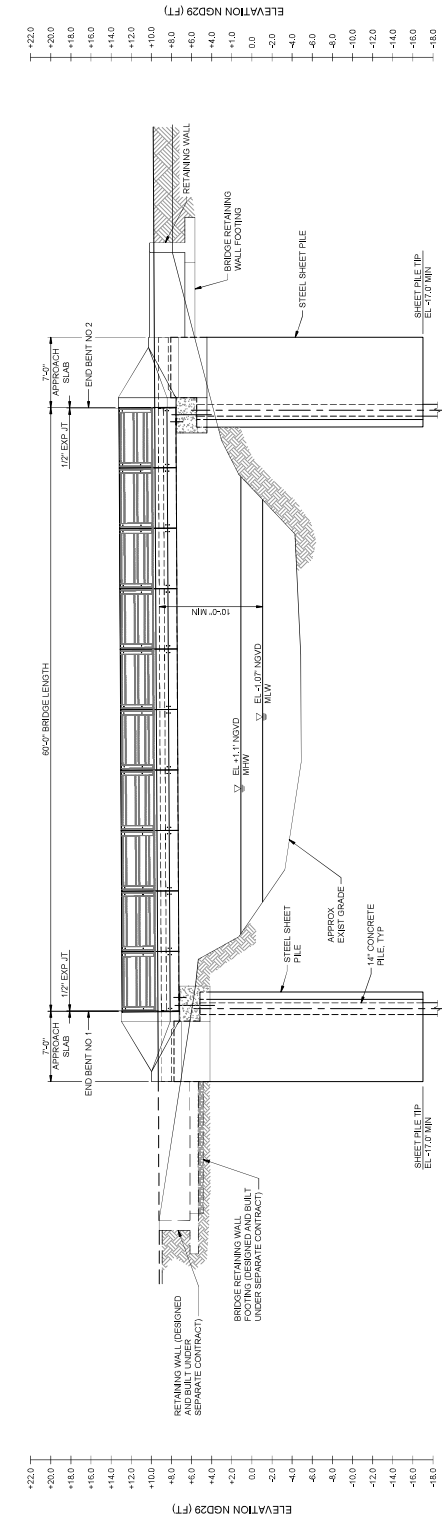
D	503600.12	893187.28
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COORDINATES ARE GIVEN IN USA
FLORIDA DATUM, FLORIDA EAST ZONE.
IS FEET

WALL	LENGTH (FT)
RW - 1	8'-11"
RW - 2	9'-4"
RW - 3	15'-6"
RW - 4	18'-6"

WALL LENGTH MEASURED ALONG FRONT FACE OF WALL

Figure 4.4



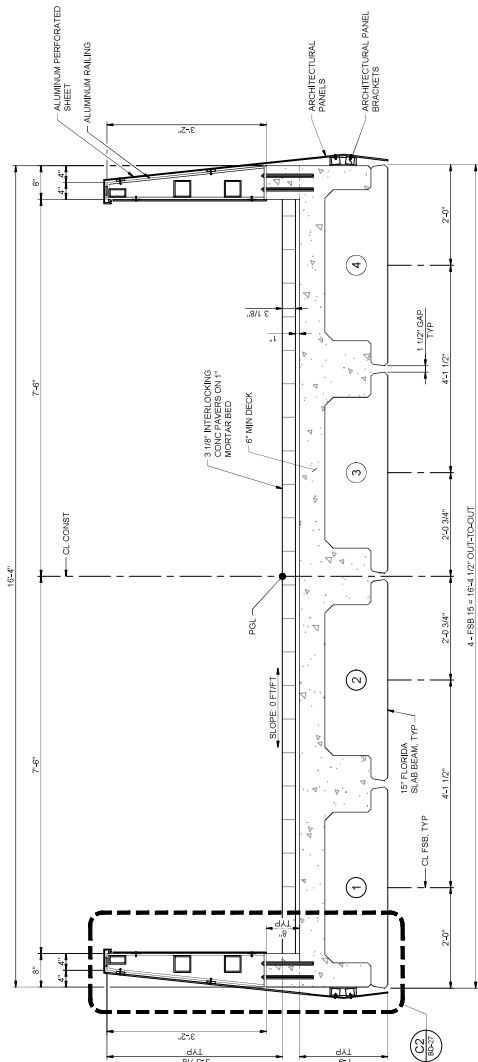
ELEVATION
SCALE: 1" = 5'

PERMIT PLANS - NOT FOR CONSTRUCTION

**MANGROVE
BRIDGE PLAN
AND ELEVATION**

10.03.2022	1240	1710000
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BD-08



C2 TYPICAL SECTION
BD-08 SCALE: 1" = 1'-0"

PERMIT PLANS - NOT FOR CONSTRUCTION

**MANGROVE
SUPERSTRUCTURE
TYPICAL SECTION**

[illegible]

T.W. COKER
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-04'00"

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 Tel: 602.977.4122
 Fax: 602.977.4122
 e: www.greynorth.com
 www.greynorth.com

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BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-751

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PROSPECT, NY 11069
(505) 326-3065

(305) 230-1004 FL EB 4677
M/T Engineers
TLC Engineering Solutions
4900 W. KENNEDY BLVD, SUITE 250
TAMPA, FL 33609

Bridge Engineers
MOFFAT & NICHOL
2037 BN 27th AVE, SUITE 101A

Structural Engineers
BLISS & NITRAY
2935 BLUE LAGOON DRIVE, S. 400
MIAMI, FL 33126

Geomantic Designs
2334 GALJANO STREET - 2nd FL.
CORAL GABLES, FL 33134
(305) 665-0088

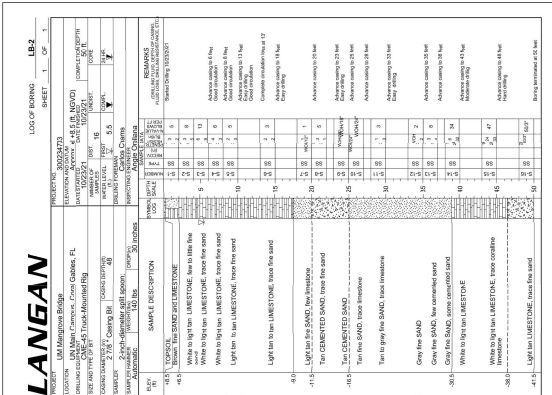
PARKSIDE CORPORATE CENTER
15150 NW 70TH COURT, SUITE 200
MIAMI LAKES, FL 33016
(754) 264-7200

NOTES

1. UNITS 1 THROUGH 4 = FSB 15x48

LEGEND

- # FLORIDA SLAB BEAM (FS8) UNIT NUMBER



PERMIT PLANS - NOT FOR CONSTRUCTION



MDC022

PERMIT PLANS - NOT FOR CONSTRUCTION

PILE DATA TABLE											
INSTALLATION CRITERIA						DESIGN CRITERIA					
PILE OR BENT NUMBER	PILE SIZE (IN)	NOMINAL RESISTANCE (TONS)	TENSION RESISTANCE (TONS)	MINIMUM TIP ELEVATION (FT)	TEST FILE LENGTH (FT)	REQUIRED JET ELEVATION (FT)	REQUIRED PILE ELEVATION (FT)	FACTORED DESIGN LOAD (TONS)	DOWN DRAG (TONS)	TOTAL SCOUR RESISTANCE (TONS)	NET SCOUR RESISTANCE (TONS)
END BENT 1	14	116	N/A	SEE NOTE 6	60	N/A	N/A	75	N/A	N/A	N/A
END BENT 2	14	116	N/A	SEE NOTE 6	60	N/A	N/A	75	N/A	N/A	N/A

FACTORED DESIGN LOAD - NET SCOUR RESISTANCE - DOWN DRAG $\leq$ NOMINAL BEARING RESISTANCE

TENSION RESISTANCE - THE ULTIMATE SIDE FRICTION CAPACITY THAT MUST BE OBTAINED BELOW THE 100 YEAR SCOUR ELEVATION TO RESIST PULLOUT OF THE PILE. SPECIFY ONLY WHEN DESIGN REQUIRES TENSION CAPACITY.

TOTAL SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SCOURABLE SOIL.

NET SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE ULTIMATE SCOURABLE SOIL.

100-YEAR SCOUR ELEVATION - ESTIMATED ELEVATION OF SCOUR DUE TO THE 100 YEAR STORM EVENT.

PILE INSTALLATION NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND NOTIFY ALL INVOLVED AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ITS OWN DETERMINATION TO AVOID DAMAGE. THE CONTRACTOR SHALL ASSURE ALL ACTIVE UTILITIES ARE PROPERLY MAINTAINED DURING CONSTRUCTION.
- ALL PILES SHALL BE DRIVEN PLUMB IN ACCORDANCE WITH SECTION 455-4 OF THE SPECIFICATIONS.
- ALL TEST PILES SHALL BE DYNAMICALLY MONITORED USING THE PILE DRIVING ANALYZER PER SECTION 455-5.3 OF THE FOOT STANDARD SPECIFICATIONS.
- TEST PILES SHALL BE DRIVEN IN THE POSITION OF A PERMANENT PILE AT LOCATIONS SHOWN.
- NO JETTING WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER.
- MINIMUM TIP ELEVATIONS SHALL BE IN ACCORDANCE WITH SECTION 455-5.6 OF THE SPECIFICATION

UNIVERSITY of MIAMI

BRIDGE DRAWINGS

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

OWNER PROJECT NUMBER: C-751

Project

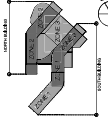


YSCOVICH ARCHITECTS

ARCHITECTS

1000 BAYVIEW BLVD, SUITE 1000
MIAMI BEACH, FL 33139
TEL: 305.673.1100
WWW.YSCOVICHARCHITECTS.COM

T.W. COOPER
FLORIDA P.E. No. 55918
MOFFATT & NICHOL
Terry W. Coker
2022.10.20.2022.45
8-0410'



SCALE: 1"=10'-0"

MANGROVE PILE DATA TABLE

10.03.2022

BD-12

Civil Engineers
LANDAN
1950 NW 19TH COURT, SUITE 200
MIAMI LAKE, FL 33076

Civil Engineers
Terry W. Coker
2304 SW 14TH STREET - 2ND FL
MIAMI, FL 33135
305.562.0808

Structural Engineers
BLISS & INTRAY
1900 N. JACKSON CPWLE, S. 400
MIAMI, FL 33135
305.414-7090

Bridge Engineers
MOFFATT & NICHOL
1950 NW 19TH COURT, SUITE 200
MIAMI, FL 33135
305.250-1004
FL BE 48877

MIT Engineers
Terry W. Coker
4900 N. KENNEY BLVD, SUITE 200
TAMPA, FL 33609

P.E. Engineers
CMTA Engineering
19111 METROBLVD
MIAMI, FL 33156
305.584-2495

OWNER PROJECT NUMBER: C-751

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

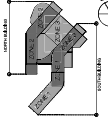
UNIVERSITY of MIAMI

YSCOVICH ARCHITECTS

ARCHITECTS

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T.W. COOPER
FLORIDA P.E. No. 55918
MOFFATT & NICHOL
Terry W. Coker
2022.10.20.2022.45
8-0410'

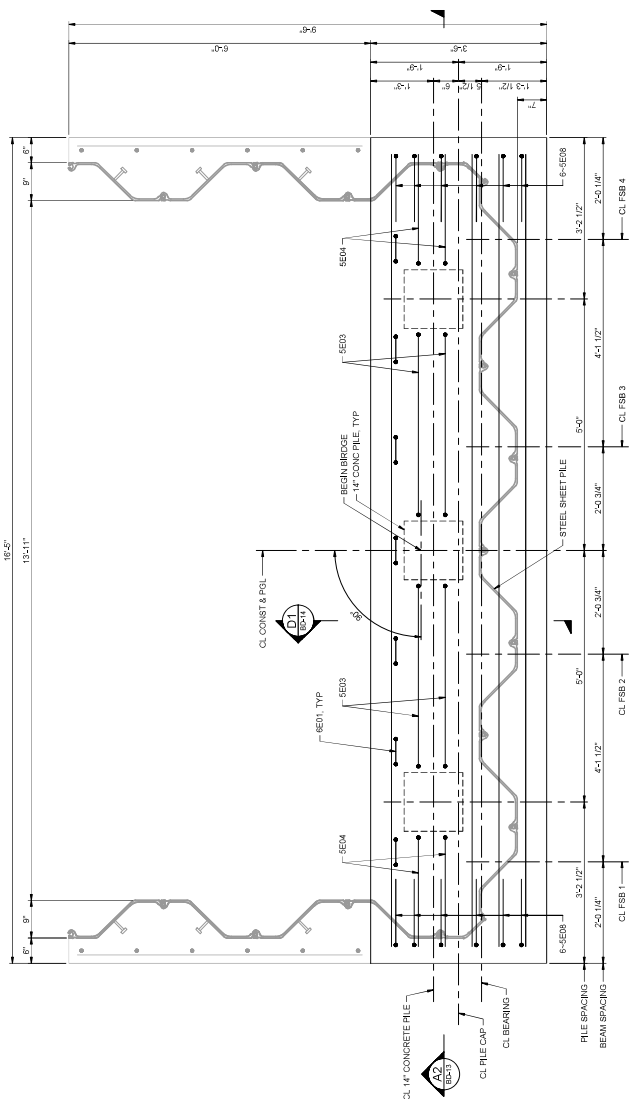


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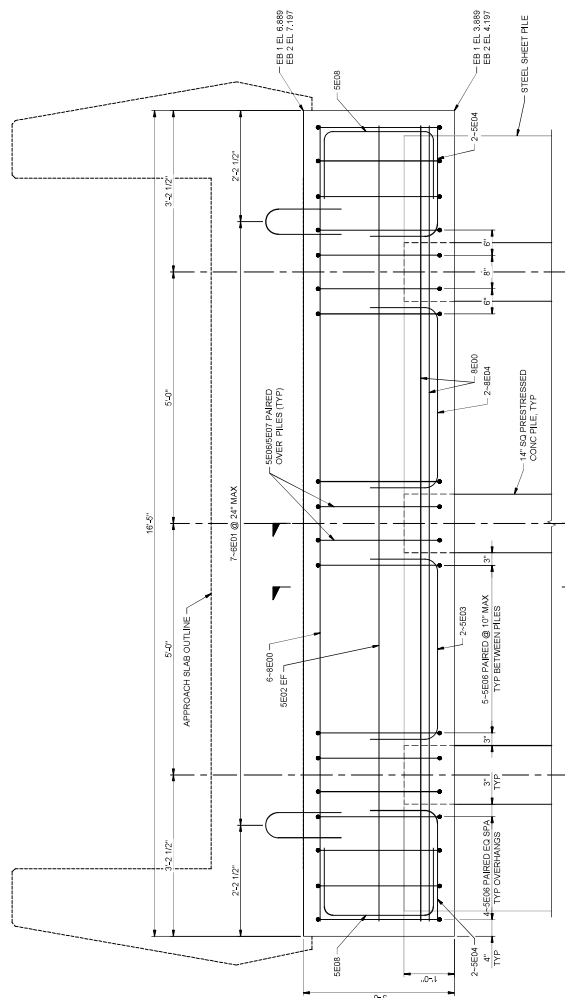
MANGROVE PILE DATA TABLE

10.03.2022

BD-12

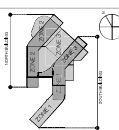


C2 MANGROVE BRIDGE END BENT PLAN
80-13 SCALE: 1" = 1'-0"
END BENT 1, END BENT 2 SIMILAR



A2 SECTION
BD-13 SCALE: 1" = 1'-0"

PERMIT PLANS - NOT FOR CONSTRUCTION

[illegible][illegible]

T.W. COKER
FLORIDA P.E. No. 55018
MOFFATT & NICHOL
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ZYSKOVICH ARCHITECTS

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UNIVERSITY of MIAMI
CENTENNIAL VILLAGE
BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-751

P/E Engineers
CMTA Engineering
10411 MEETING ST.
PRINCETON, KY 40092
(502) 331-3065

M/T Engineers
TLC Engineering Solutions

Structural Engineers
BLISS & NITRAY
5935 BLUE LAGOON DRIVE, S. 400
MIAMI, FL 33126
(305) 442-7000

Landscape Arch. (Record)
Geomatic Designs
23324 GALLIANO STREET - 2ND FL.
CORAL GABLES, FL 33134

Civil Engineers
LANGAN
PARKSIDE CORPORATE CENTER
15150 NW 79TH COURT, SUITE 200



MDC023



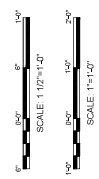
D1 SECTION
BD-13 SCALE: 1" = 1'-0"



D4 SECTION - BETWEEN PILES
BD-13 SCALE: 1 1/2" = 1'-0"



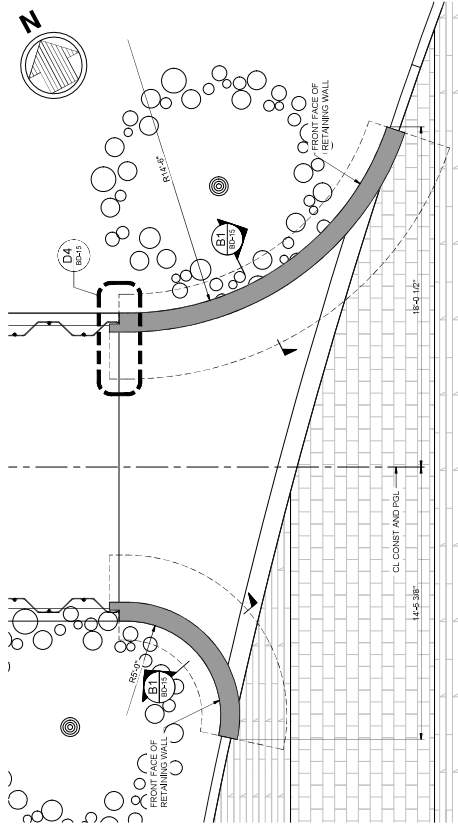
D5 SECTION - OVER PILES
BD-13 SCALE: 1 1/2" = 1'-0"



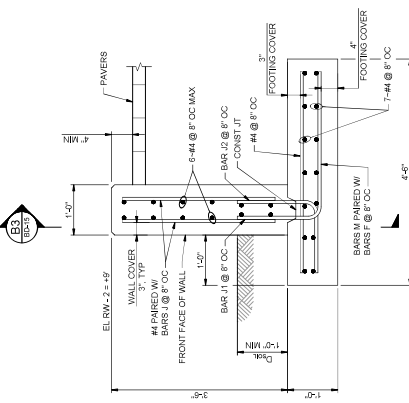
**MANGROVE
BRIDGE END
BENT DETAILS**

PERMIT PLANS - NOT FOR CONSTRUCTION

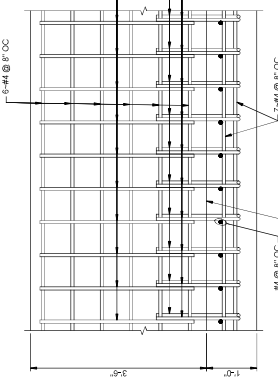
MDC025



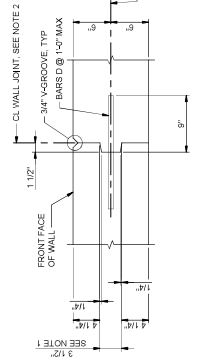
D1 PLAN - CIP WALLS
SCALE 3/8" = 1'-0"



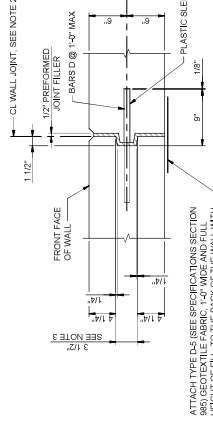
B1 TYPICAL SECTION - CIP WALL
SCALE 1" = 1'-0"



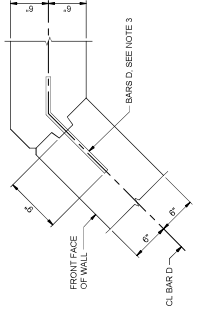
B3 ELEVATION - CIP WALL
SCALE 1" = 1'-0"
SHOWN NET SHOWN DASHED



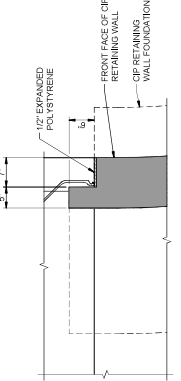
A1 WALL JOINT DETAIL
SCALE 1 1/2" = 1'-0"



A3 EXPANSION JOINT DETAIL
SCALE 1 1/2" = 1'-0"



A5 TYPICAL CORNER JOINT DETAIL
SCALE 1 1/2" = 1'-0"



D4 DETAIL
SCALE 1" = 1'-0"

- NOTES
- KEY TO STOP AT TOP OF FOOTING AND 8" FROM TOP OF WALL. JUMP IF ACROSS FOOTING AND TOP OF WALL TO BE A STRAIGHT LINE.
 - REINFORCE PLASTIC REINFORCED BOND BEAMERS ARE PERMITTED TO FORM JOINTS.
 - BARS ARE REQUIRED TO BE REQUIRED TO MAINTAIN SPACINGS. SUBMIT BONDABLE TO STAY SUPPLIER, STEEL REINFORCING MAY BE HELD BENT.

BILL OF REINFORCING STEEL				
MARK	NO	SIZE	PH.D	LENGTH
BENDING DIAGRAM				

Civil Engineers
LANGAN
1000 N. W. 10TH AVE., SUITE 100
MIAMI, FL 33136
TEL: 305.575.1000
WWW.LANGAN.COM

Consulting Civil Engineer
Geometric Design
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MIAMI, FL 33136
TEL: 305.575.1000
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Structural Engineers
ELUS & NITRAY
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TEL: 305.575.1000
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Bridge Engineers
MOFFATT & NICHOL
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MIT Engineers
Structural Solutions
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MIAMI, FL 33136
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RE Engineers
CMVA Engineering
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MIAMI, FL 33136
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WWW.LANGAN.COM

UNIVERSITY OF MIAMI
BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-751

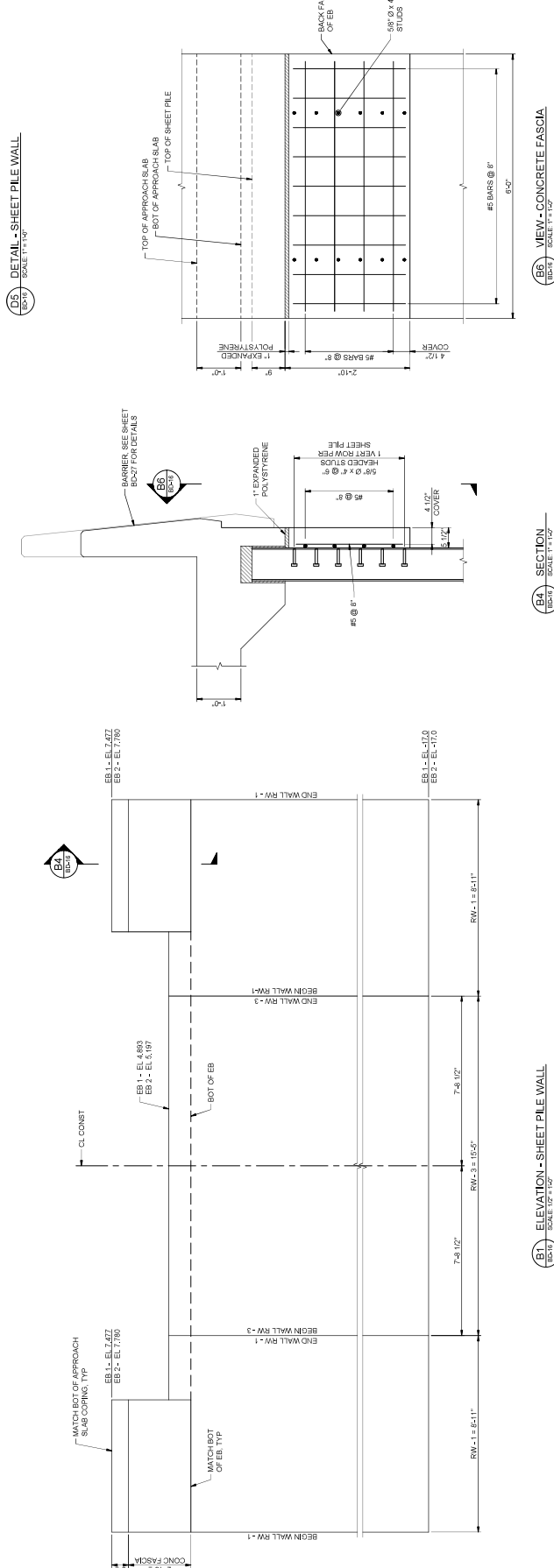
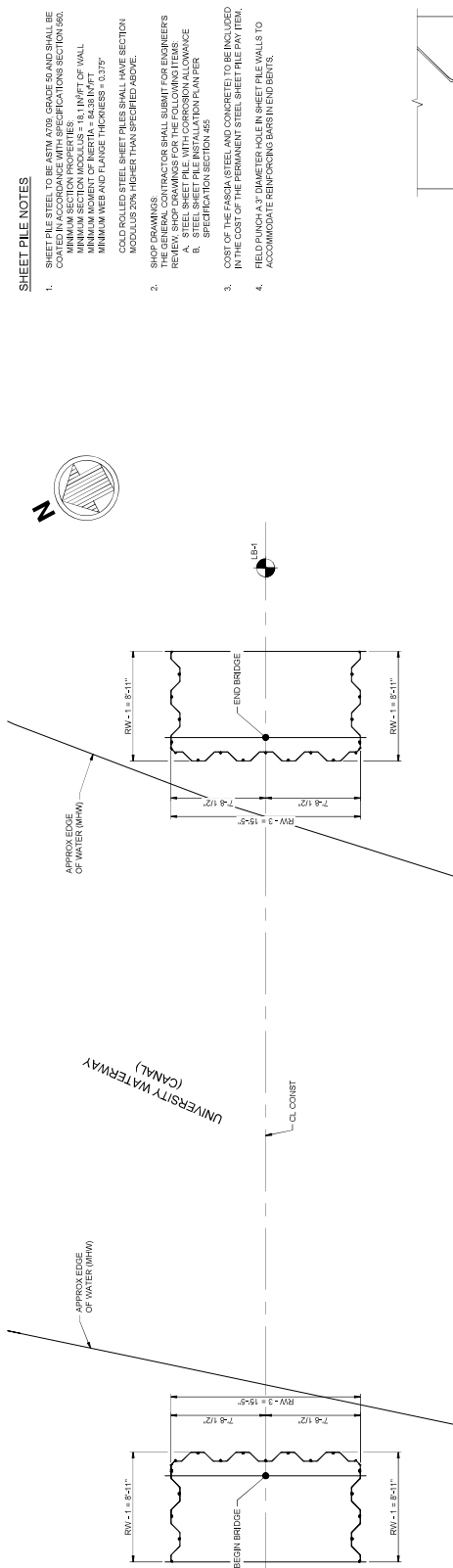
ZYSKOVICH ARCHITECTS
1000 N. W. 10TH AVE., SUITE 100
MIAMI, FL 33136
TEL: 305.575.1000
WWW.ZYSKOVICHARCHITECTS.COM

T.W. COVER
FLORIDA P.E. No. 55018
MOFFATT & NICHOL
Terry W. Coker
2022.10.20 2023-06-08
3'-04'00"

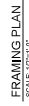
MANGROVE CANTILEVER RETAINING WALL (C-L-P 1 OF 2)
MDC 1025
27th NOV 2024
10.03.2022

BD-15

PERMIT PLANS - NOT FOR CONSTRUCTION



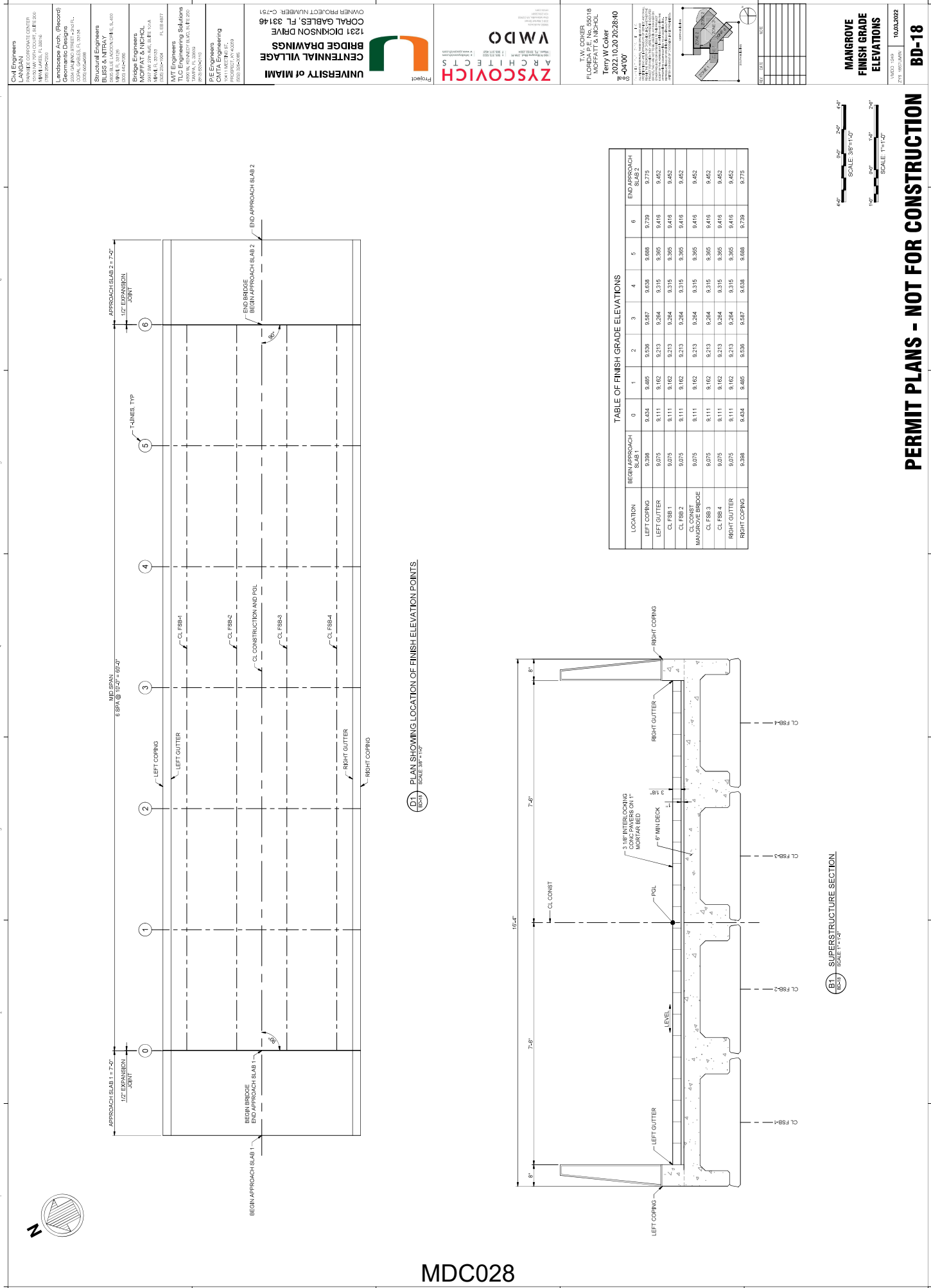
PERMIT PLANS - NOT FOR CONSTRUCTION

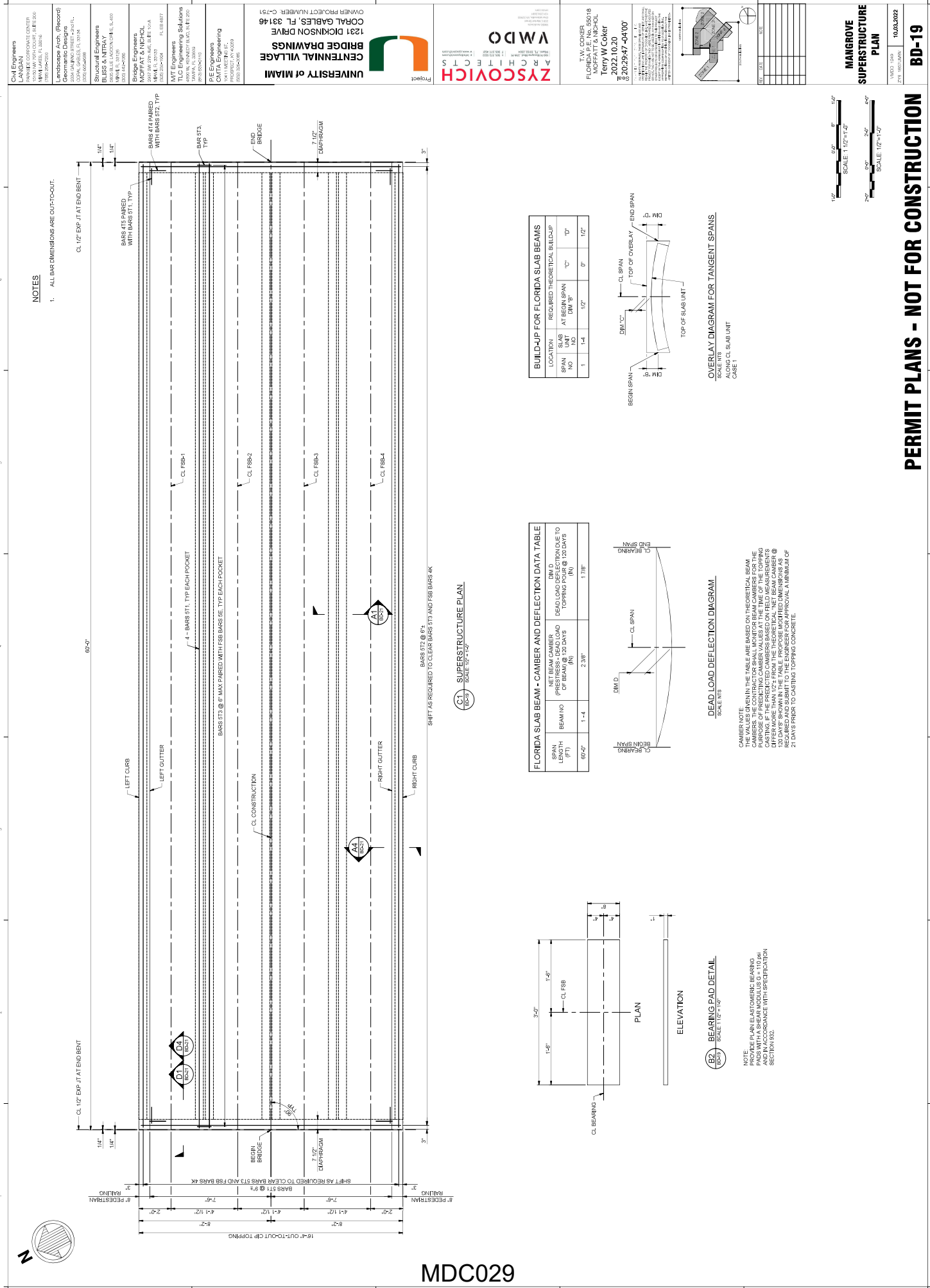


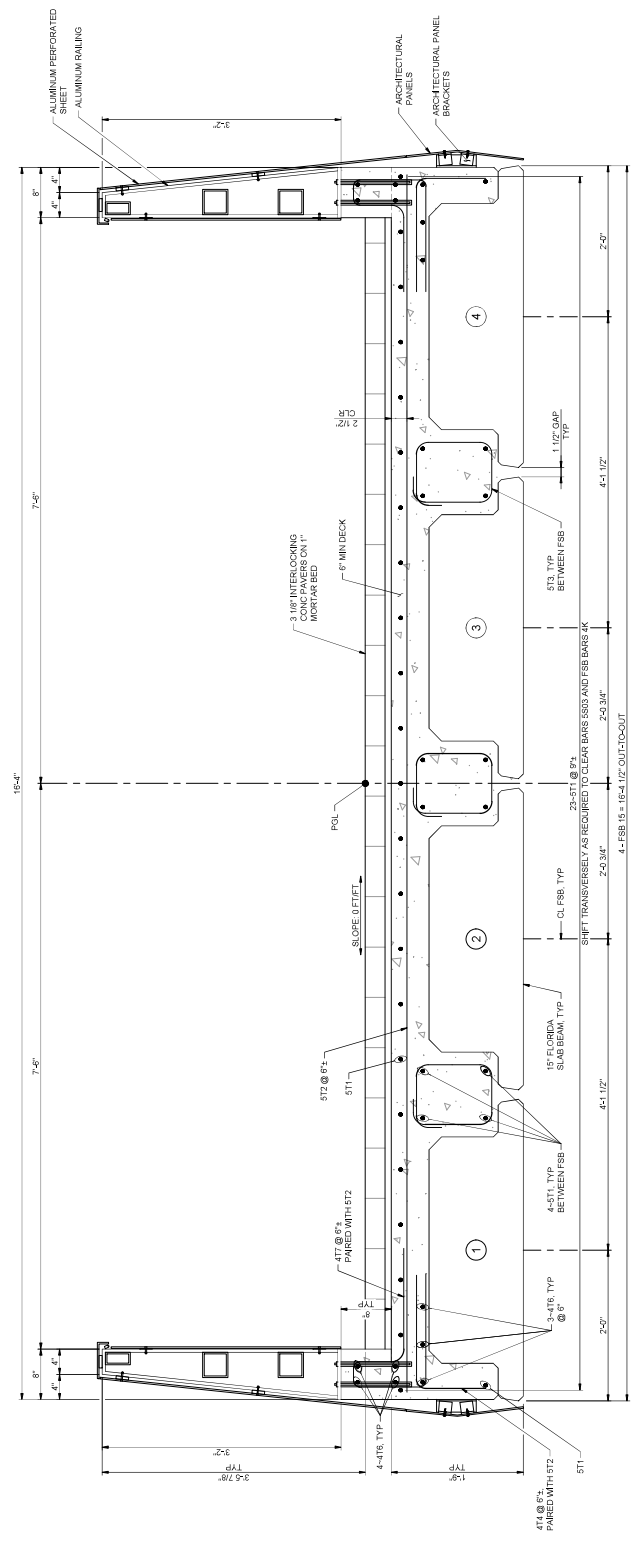
MANGROVE FRAMING PLAN

BD-17

Civil Engineers LANGAN 1000 N.W. 79TH CORPDR, SUITE 200 DADE COUNTY, FL 33126 TEL: 305-491-3876 FAX: 305-491-2500	Landscapes Arch. (Record) DAVIDSON 2000 DALLAS STREET, 2ND FL. OPAK, GABLES, FL 33134 TEL: 305-665-0598	Structural Engineers BLISS & MITRAY 500 BLUE LAGOON DR., S. 400 MIAMI FL. 33129 TEL: 305-435-0586	Bridge Engineers MOFFAT & NICHOL 1000 N.W. 3313N TEL: 305-251-1954 FEE: 4577	MIT Engineers TLC Engineering Solutions 100 W. KENNEDY BLVD, SUITE 220 TAMPA, FL 33659 TEL: 813-903-1070	P/E Engineers CMTA Engineering
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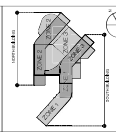




C2 SUPERSTRUCTURE SECTION
 BD-08 SCALE: 1 1/2" = 1'-0"

1'-0" 0'-0" 6" 1'-0"
SCALE: 1 1/2"=1'-0"

PERMIT PLANS - NOT FOR CONSTRUCTION

[illegible]

T.W. COKER
FLORIDA P.E. No. 55018
MOFFATT & NICHOL
Terry W Coker
2022.10.20
20:31:08 -04'00'

[illegible]

UNIVERSITY OF MIAMI
CENTENNIAL VILLAGE
BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-1751

P/E Engineers
CMTA Engineering
10411 MEETING ST.
PROSPECT, KY 40069
(502) 336-3065

M/T Engineers
TLC Engineering Solutions
4030 W. KENNEDY BLVD, SUITE 200
TAMPA, FL 33609

Bridge Engineers
MOFFAT & NICHOL
2007 SW 27th AVE, SUITE 101A
MIAMI, FL 33133
(305) 253-1004 FLE4877

Structural Engineers
BLISS & NITRAY
6930 BLUE LAGOON DRIVE, S. 400
MIAMI, FL 33126

Landscape Arch. (Record)
Geomantic Designs
2334 GULFING STREET - 2nd FL.
CORAL GABLES, FL 33134
(305) 447-0798

Civil Engineers
LANGAN
PARKSIDE CORPORATE CENTER
15150 NW 70TH COURT, SUITE 200
MIAMI LAKES, FL 33016

NOTES

1. UNITS 1 THROUGH 4 = FSB 15x48
2. REFER TO RAILING DETAILS ON SHEET BD-27.

LEGEND

FLORIDA SLAB BEAM (FSB) UNIT NUMBER

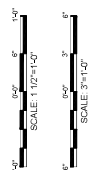
1. WORK THIS SHEET WITH SHEETS BD-24 AND BD-25.



1. USE A BACKER ROD TO FORM THE BOTTOM OF THE CAST IN PLACE TOPPING AT THE GAP BETWEEN ADJACENT 588s. USE A BACKER ROD MEETING THE REQUIREMENTS OF ASTM C1330 OR ASTM C525 TYPE 1, CUT WITH A MINIMUM UNCOMPRESSED TAPER 50% LARGER THAN THE CASTING PLACEMENT TOLERANCE. THE BACKER ROD SHALL BE 1/2" LONGER THAN THE CASTING PLACEMENT TOLERANCE. THE PLACEMENT SHALL BE 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 NOT IN CONTACT WITH ANY COMPATIBLE CONSTRUCTION ADHESIVE. THE BACKER ROD MAY REMAIN IN PLACE AFTER TOPPING CONCRETE PLACEMENT.

INDEX 458-110		
LOCATION	QW "A" @ 70° F	QW "A" ADJUSTMENT PER 10° F
TYPICAL	2"	0"

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



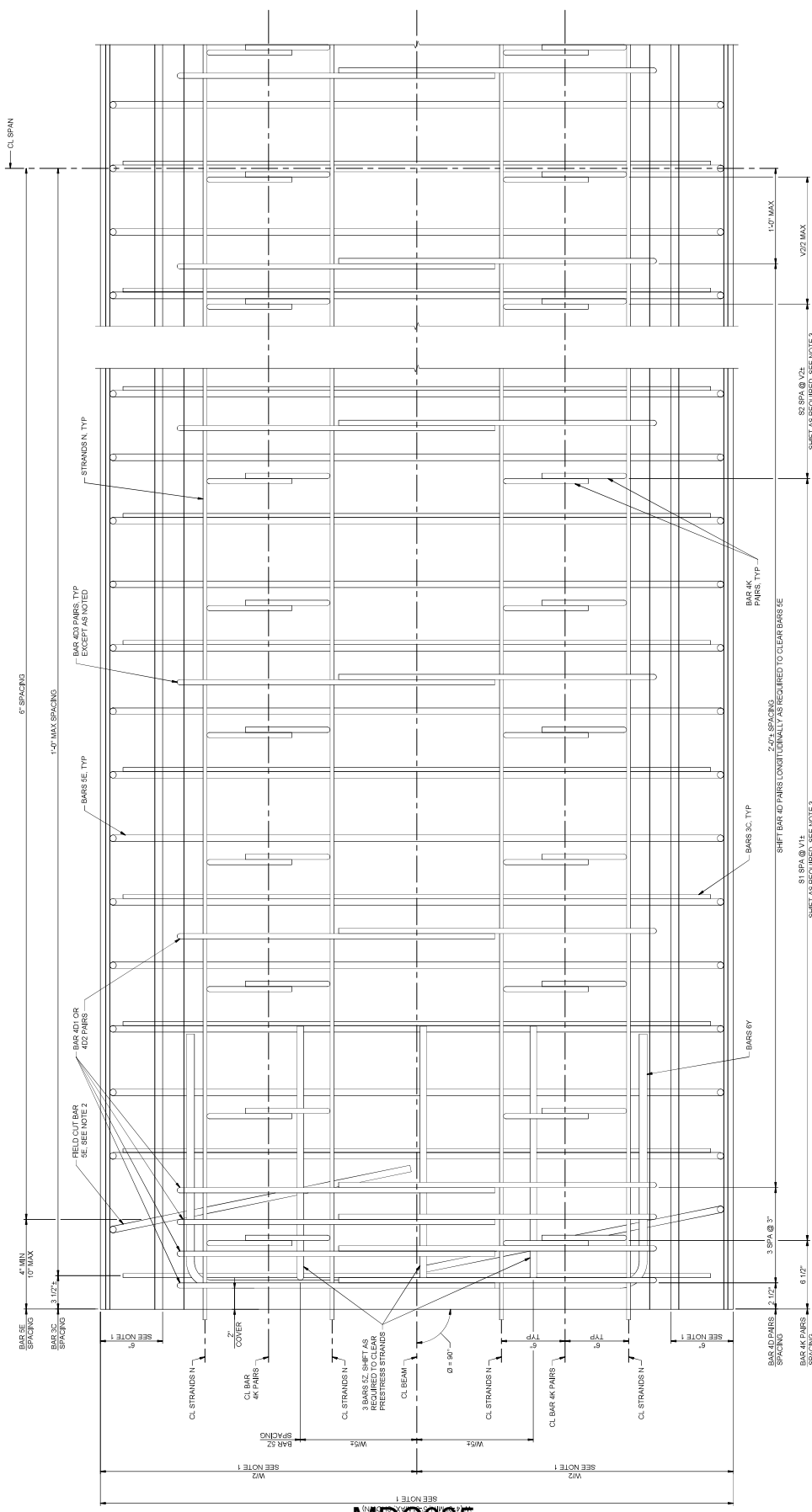
**MANGROVE
SUPERSTRUCTURE
DETAILS**

VADO 1249
CYS 1807JMSV

10.03.2022

BD-21

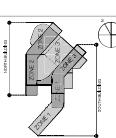
PERMIT PLANS - NOT FOR CONSTRUCTION



- NOTES**
1. BEAM DIMENSIONS MEASURED TO WORKING POINTS.
 2. AT BEAM ENDS USE NUMBER OF FIELD CUT AND ROTATED BARS 5E AS REQUIRED TO CLEAR BAR 4D PARIS AND BAR 4K PARIS.
 3. SHIFT BAR 4K PARIS, LONGITUDINALLY AS REQUIRED TO CLEAR BAR 4D PARIS AND BARS 3C AND 5E.
 4. FOR DIMENSIONS V1, V2, AND W AND NUMBER OF SPACES S1 AND S2, SEE BD-2.
 5. SEE BD-23 FOR BARS 1E DETAILS.

NOTE:
END 1 SHOWN, END 2 SIMILAR.
INTERIOR BEAM SHOWN, EXTERIOR
BEAM SIMILAR. SEE BARS 5E DETAIL.

PARTIAL PLAN VIEW $\phi = 90^\circ$

[illegible]

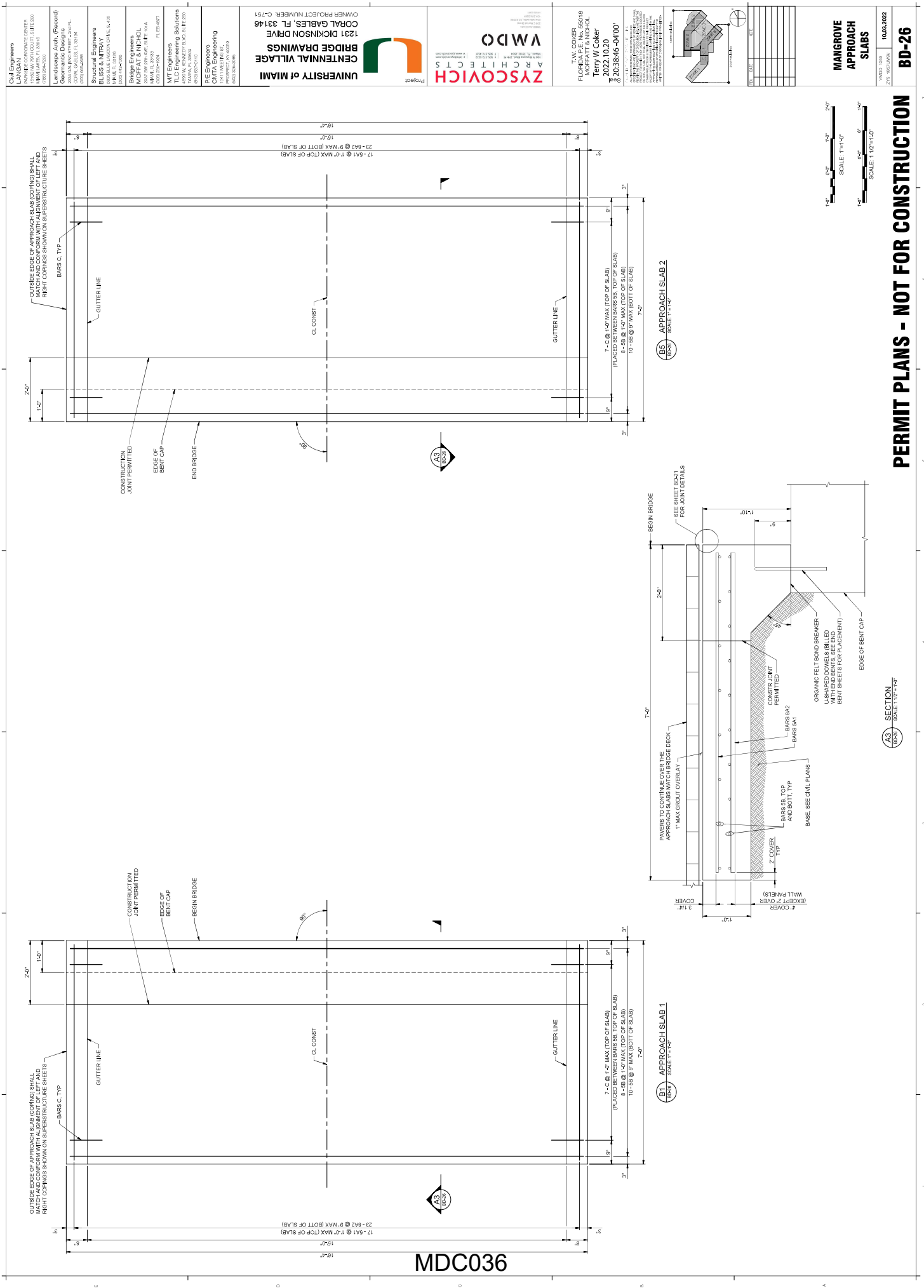
**MANGROVE
FLORIDA SLAB
BEAM TYPICAL
DETAILS AND
NOTES (2 OF 2)**

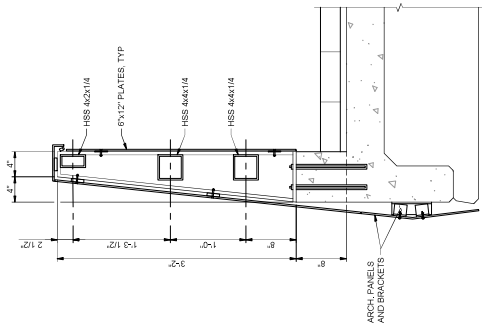
VMDO 1249 CYS 1837UMSN	10.03.2022
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BD-25

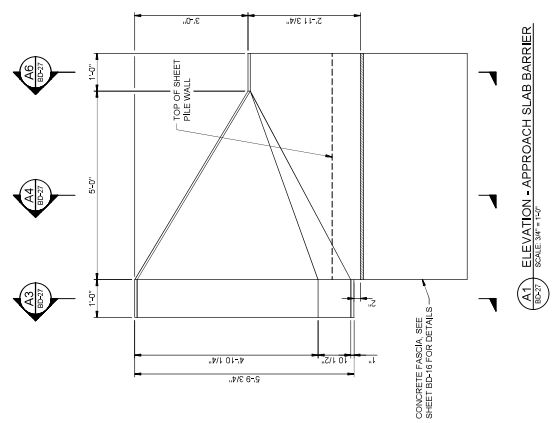
PERMIT PLANS - NOT FOR CONSTRUCTION

MDC036

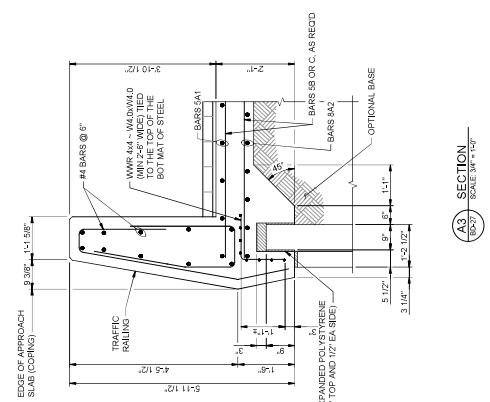




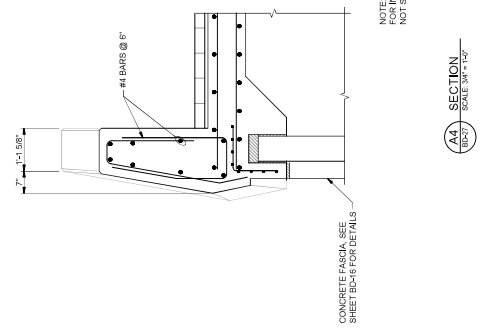
C2 **DETAIL - RAILING**
BD-06 SCALE: 1 1/2" = 1'-0"



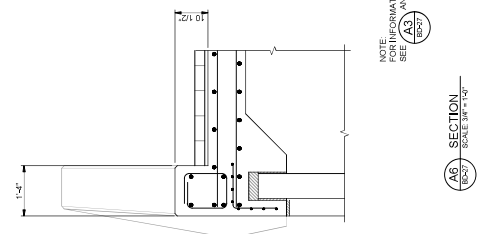
A1 ELEVATION - APPROACH SLAB BARRIER
BO-27 SCALE: 3/4" = 1'-0"



A3 SECTION
BO-27 SCALE: 3/4" = 1'-0"

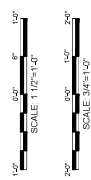


A4 SECTION
BD-27 SCALE: 3/4" = 1'-0"

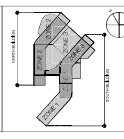


A6 SECTION
BO-27 SCALE 3/4" = 1'-0"

NOTE:
FOR INFORMATION NOT SHOWN,
SEE  AND 



MANGROVE BARRIER DETAILS	VWDG 1249 ZYS 1803JMSV	10.03.2022
	BD-27	

[illegible]

T.W. COCKER
FLORIDA P.E. NO. 55018
MOFFATT & NICHOL
Terry W Coker
2022.10.20
20:40:12 -0400*

[illegible]

UNIVERSITY of MIAMI
CENTENNIAL VILLAGE
BRIDGE DRAWINGS
1231 DICKINSON DRIVE
CORAL GABLES, FL 33146
OWNER PROJECT NUMBER: C-751

P/E Engineers
CMTA Engineering
10411 MEETING ST.
PRINCETON, KY 40369
(502) 338-3065

2037 SW 27th AVE, SUITE 101A MIAMI, FL 33133 (305) 230-1924 FL EB4877	M/T Engineers TLC Engineering Solutions 4690 W. KENNEDY BLVD, SUITE 250
---	---

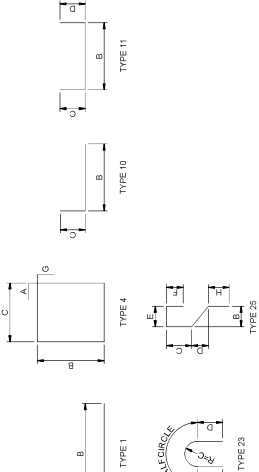
Structural Engineers
BLISS & NITRAY
5930 BLUE LAGOON DRIVE, S. 400
MIAMI, FL 33126
(305) 442-7000

(706) 204-7200
Landscape Arch. (Record)
Geomantic Designs
2334 GALIANO STREET - 2nd FL.
CORAL GABLES, FL 33134
(305) 447-0788

Civil Engineers
LANGAN
PARSONS CORPORATE CENTER

MDC038

MARK	SIZE	LENGTH	NO	TYP	STY	B	C	D	E	F	H	J	K	N	ANG		
DES	FT	IN	BAR	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
NO. REQUIRED = 2																	
LOCATION APPROACH SLABS 1 AND 2																	
5	A1	6-6	17	1		8-6											
8	A2	6-6	23	1		8-6											
5	B	15-10	18	1		15-10											
5	C	5-0	14	1		5-0											
NO. REQUIRED = 1																	
LOCATION SUPERSTRUCTURE CIP TOPPING																	
5	T1	59-4	37	1		59-4											
5	T2	15-10	120	1		15-10											
5	T3	3-7	367	4	6	1-0	0-9 1/2										
4	T4	2-5	240	10		1-6	0-11										
4	T5	2-9	46	10		1-6	1-3										
4	T6	59-4	14	1		59-4											
4	T7	15-5	240	25		0-6 1/2	0-4			11-0	2-0	1-6					
NO. REQUIRED = 2																	
LOCATION END BENT																	
8	E00	15-9	12	1		15-9											
6	E01	4-4	7	23		1-9	0-3	1-9									
5	E02	15-9	2	1		15-9											
5	E03	6-0	4	11		3-4	1-4			1-4							
5	E04	3-4	4	10		2-0	1-4			1-4							
5	E05	7-4	32	11		2-3 1/2	2-6	2-6									
5	E06	4-0	6	11		2-3 1/2	1-6	0-2									
5	E07	5-11	8	11		2-3 1/2	2-6	1-1									
5	E08	5-0	12	11		2-3 1/2	1-4	1-4									



Civil Engineers

LANGAN

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

Structural Engineers

BLISS & NITRAY

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MIAMI, FL 33156

Structural Engineers

BRIDGE ENGINEERS

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

Structural Engineers

MOFFATT & NICHOL

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MIT ENGINEERS

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Structural Engineers

RE ENGINEERS

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Structural Engineers

YSCOVICH ARCHITECTS

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Structural Engineers

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Structural Engineers

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MIAMI, FL 33156

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8-04100

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UNIVERSITY OF MIAMI

BRIDGE DRAWINGS

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

OWNER PROJECT NUMBER: C-751

YSCOVICH ARCHITECTS

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8-04100

UNIVERSITY OF MIAMI

BRIDGE DRAWINGS

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

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MIAMI, FL 33156

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MIAMI, FL 33156

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FLORIDA P.E. No. 55918

MOFFATT & NICHOL

Terry W. Coker

8-04100

UNIVERSITY OF MIAMI

BRIDGE DRAWINGS

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

OWNER PROJECT NUMBER: C-751

YSCOVICH ARCHITECTS

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

T.W. COOPER

FLORIDA P.E. No. 55918

MOFFATT & NICHOL

Terry W. Coker

8-04100

STRUCTURAL ENGINEERS

BLISS & NITRAY

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

STRUCTURAL ENGINEERS

BRIDGE ENGINEERS

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MIAMI, FL 33156

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MOFFATT & NICHOL

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

STRUCTURAL ENGINEERS

MIT ENGINEERS

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

STRUCTURAL ENGINEERS

RE ENGINEERS

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

STRUCTURAL ENGINEERS

YSCOVICH ARCHITECTS

10000 S.W. 10TH AVENUE, SUITE 100
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STRUCTURAL ENGINEERS

FLORIDA P.E. No. 55918

MOFFATT & NICHOL

Terry W. Coker

8-04100

UNIVERSITY OF MIAMI

BRIDGE DRAWINGS

1231 DICKINSON DRIVE
CORAL GABLES, FL 33146

OWNER PROJECT NUMBER: C-751

YSCOVICH ARCHITECTS

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

T.W. COOPER

FLORIDA P.E. No. 55918

MOFFATT & NICHOL

Terry W. Coker

8-04100

STRUCTURAL ENGINEERS

BLISS & NITRAY

10000 S.W. 10TH AVENUE, SUITE 100
MIAMI, FL 33156

STRUCTURAL ENGINEERS

BRIDGE ENGINEERS

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MIAMI, FL 33156

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MIAMI, FL 33156

STRUCTURAL ENGINEERS

MIT ENGINEERS

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MIAMI, FL 33156

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STRUCTURAL ENGINEERS

FLORIDA P.E. No. 55918

MOFFATT & NICHOL

Terry W. Coker

8-04100

PERMIT PLANS - NOT FOR CONSTRUCTION

MANGROVE
REINFORCING
BAR LIST

BD-28

Attachment C

Zoning Memorandum

Memorandum



Date: April 24, 2023

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

From: Rockell Alhale, ERPS *R. Alhale*
Coastal Resources Section
Department of Regulatory and Economic Resources

Subject: Class I Permit Application by the University of Miami for the Installation of a Fixed Bridge located between 1239 Dickinson Drive and 5665 Ponce De Leon Boulevard Spanning the University Canal, in the City of Coral Gables, Miami-Dade County, Florida

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

Attachment D

DERM Project Report

CLASS I PERMIT APPLICATION NO. CLI-2021-0714

Class I Permit Application by the University of Miami for the Installation of a Fixed Bridge located between 1239 Dickinson Drive and 5665 Ponce De Leon Boulevard Spanning the University Canal, in the City of Coral Gables, Miami-Dade County, Florida

DATE: April 24, 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 and staff's opinion to its conformance with respect to each applicable evaluation factor:

1. **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 is not providing significant benthic habitat; therefore, shading impacts to benthic resources as a result of the bridge installation is not reasonably expected. In addition, the work would be done primarily from the uplands and there would be no components installed within tidal waters. There are red mangroves growing adjacent to the project footprint; however, no impacts are proposed. Adverse environmental impacts are not reasonably expected as a result of this project; therefore, no mitigation is required for the installation of the pedestrian bridge.

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, adverse impacts to manatees not reasonably expected since the proposed project does not involve mooring or structures in tidal waters, and the work will be done from the uplands, The Class I permit will require that all standard construction permit conditions regarding manatee protection be followed.

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 is not reasonably expected to affect surface water quality during construction operations. .
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** – The proposed project is not reasonably expected to adversely affect navigation. The bridge would measure approximately 16.3 feet wide by 60 feet long and would be installed at an elevation of +10 feet NGVD. Therefore, the proposed bridge is not reasonably anticipated to create an impediment to potential navigation or access along the canal.
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 is not reasonably expected to adversely affect wetland soils suitable for habitat.
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 as set forth in Number 1 above.
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 is not reasonably expected to adversely affect wetland habitat.
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 would occur on lands owned by the applicant.
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 Code of Miami-Dade County and the Miami-Dade County Public Works Manual.
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 and must be obtained prior to performing work)
 - c) Florida Department of Environmental Protection (regulatory permit is required and must be obtained prior to performing work)

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 3A, 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 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 would 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 species.

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 would not affect natural surface flow into and through 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.

Objective 5/Policy 5B - Existing and new areas for water-dependent uses. - The proposed project does not involve the creation of a new water-dependent use but would allow for the continued access over the water through the removal of the existing bridge and installation of a new bridge.

Objective 5/Policy 5D - Consistency with Chapter 33D, Miami-Dade County Code. (shoreline access, environmental compatibility of shoreline development) – The Shoreline Development Review Committee has evaluated the proposed project and determined that the thresholds for review 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 a water dependent facility.

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 proposed project is not located within the Biscayne Bay Aquatic Preserve.
30. **Conformance with the Miami-Dade County Manatee Protection Plan** - The proposed project is consistent with the Miami-Dade County Manatee Protection Plan. The Class I permit will require that all standard manatee construction conditions be followed.
31. **Consistency with Miami-Dade County Criteria for Lake Excavation** – The proposed project does not involve lake excavation.
32. **Zoning Recommendation** – 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.
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 does not involve the dredging and filling of tidal waters or coastal wetlands.
- 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** – Not applicable.
- 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, ERPS
Coastal Resources Section



MEMORANDUM

(Revised)

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

DATE: June 21, 2023

FROM: 
Gen Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 5(D)

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(D)
6-21-23

RESOLUTION NO. R-503-23

RESOLUTION TAKING ACTION ON CLASS I PERMIT APPLICATION BY THE UNIVERSITY OF MIAMI FOR THE INSTALLATION OF A FIXED BRIDGE LOCATED BETWEEN 1239 DICKINSON DRIVE AND 5665 PONCE DE LEON BOULEVARD SPANNING THE UNIVERSITY CANAL, AND FOR AUTHORIZATION TO CONDUCT WORK ON TWO ADDITIONAL BRIDGES ALONG THE CANAL, IN THE CITY OF CORAL GABLES, MIAMI-DADE COUNTY, FLORIDA

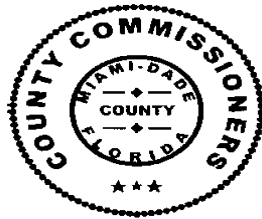
WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

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 the University of Miami for the installation of a fixed bridge located between 1239 Dickinson Drive and 5665 Ponce De Leon Boulevard spanning the University Canal, and for authorization to conduct work on two additional bridges along the canal, in the City of Coral Gables, 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 **Danielle Cohen Higgins** , who moved its adoption. The motion was seconded by Commissioner **Kionne L. McGhee** and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman	absent	
Anthony Rodríguez, Vice Chairman	aye	
Marleine Bastien	aye	Juan Carlos Bermudez aye
Kevin Marino Cabrera	absent	Sen. René García aye
Roberto J. Gonzalez	aye	Keon Hardemon absent
Danielle Cohen Higgins	aye	Eileen Higgins absent
Kionne L. McGhee	aye	Raquel A. Regalado aye
Micky Steinberg	aye	

The Chairperson thereupon declared this resolution duly passed and adopted this 21st day of June, 2023. 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.

CJW

Christopher J. Wahl
Abbie Schwaderer-Raurell