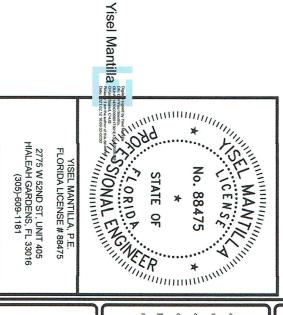
CONCRETE CAP REPLACEMENT

PRELIMINARY APPROVAL

DATE 03/10/2021



1710 BAY DRIVE MIAMI BEACH, FLORIDA



SAMIR K.

11-23-20

Sheet no.

iob name

MR. DAMIAN MARTINEZ 1710 BAY DRIVE. MIAMI BEACH FL.

REPLACEMENT OF EXISTING CONCRETE SEAWALL CAP

MARIN & MARIN

CONSTRUCTION
516 NW 66th ST Phone:

18516 NW 66th. ST Phone:(305) 594.1882 Miami, Florida 33166 Fax: (305) 594.1884 E-Mail: marin_marin@bellsouth.net

GENERAL STRUCTURAL NOTES

- 2020 Florida Bullding Code. Sixth Edition has been used as the governing code for this project. Structural drawings and specifications for this project comply with Florida Building Code and regulations, to the best of the engineer's knowledge.
- Any construction work for this project shall comply with 2020 Florida Building Code's requirements as well as with ASCE 7-16 and all local codes, standards, and regulations. It is the intent of these plans and the responsibility of the contractor to comply with local, federal and state environmental permits issued for this project. It is the contractor responsibility to familiarize and govern himself by all provisions of these permits.
- Contractors shall immediately notify the engineer when discreponcies between the structural drawings and the existing condition in the field are found. Engineer must be notified immediately in case of any error or/and omission is found in the structural drawings.
- 5 It is the responsibility of the contractor to always protect abutting properties, materials, surfaces, furnishings, and public from horm during construction. Licensed contractor shall be responsible for adequate sediment and erosion control measurements to protect Biscoyne Bay from sediments and debris from construction.
- Contractor shall be responsible for construction means and methods, as well as for ensuring jobsite safety including but not limited to all OSHA requirements applicable for the job.
- 6. It is the responsibility of the contractor to verify location of existing utilities in the field prior commencing any work. Areo of work shall be protected by fence and barricades at all times.
- Stability of the structure and temporary bracing, including but not limited to masonry walls, is the responsibility of the contractor, who shall ensure that the bracing system used is the adequate for the job. The contractor, can also retain a licensed Florida engineer to design and inspect the bracing system required to be used for the job.
- 00
- 9 Elevations shown refer to the National Geodetic Vertical Datum (NGVD) of 1929.
- 10. All dimensions on plans are subject to verification in the field.
- No change to these plans can be made without a written authorization from the engineer.

REINFORCED CONCRETE

- Structural design and construction shall comply with ACI 318 and ACI 301. Minimum ultimate 28 days compressive design strength, fc, of 5,000 PSI for all concrete, except precast piles, shall be used in this project. The maximum w/c ratio shall be 0.4 (Normal weight aggregate concrete).
- Concrete construction shall always be inspected as required by FBC 2020 and ACI 318. Owner shall employ and pay an independent testing laboratory for testing service in accordance with ASIM.

 5. Record of tests of materials and concrete shall be retained for at least two years after job's completion by inspector. The building official shall have the right to request record of these tests and/or to order testing of any material to determine if it meets the specified quality.

 6. Cementitious materials shall be per ACI 318 and corresponding ASIM.

 7. Concrete reinforcement shall be per ASIM A615. Provide ASIM A615 Grade 60, fy = 60,000 PSI reinforcing steel. All Reinforcement shall be placed in accordance with ACI315 and ACI Manual of Standard Practice, latest versions. Welded plain wire reinforcement shall be per ASIM A185. Supply welded plain wire reinforcement shall be per ASIM a185. Supply welded plain wire reinforcement shall be per ASIM a185. Supply welded plain wire reinforcement shall be per ASIM a185. Supply welded plain wire reinforcement shall be per ASIM a185. Supply welded plain wire reinforcement shall be per ASIM a185. Supply welded plain wire reinforcement shall be per ASIM a185.
- 9. forcement shall be free of materials deleterious to bond when concrete
- is placed is placed. Supported and fastened to maintain its location during concrete placement. Tolerances specified in ACI 117 shall not be exceeded before concrete is placed.

 11. Concrete shall be maintained above 50 °F and in a maist condition for minimum 7 days after its placement, unless it is high-early strength
- 12. Forms used for cast—in place structural elements shall be substantial and sufficiently tight to prevent mortar's leakage. Forms must be adequately braced and tied to maintain its position in place or the shape of the structural element. The contractor is responsible to ensure the forms used for the job are the adequate. It is also the responsibility of the contractor to ensure the removal of forms, shores, and re—shoring is done by ACI 318
- 3 14. specifications. Specifications specifications are specifications. Construction joints in floors shall be located within the middle third of span of slabs, beams, and girders. For the case of girders, construction joints shall be offset a minimum of two times.

 Beams, girders, or slabs supported by columns or walls shall not be cast until the concrete in the supporting member is no longer plastic.
- 15.
- 16. $\frac{3}{4}$ " charmfer shall be provided for all exposed corners.
- 17. Reinforcement splices shall be minimum 30 times the diameter of the reinforcement bar. Reinforcement shall be continuous around all corners (48 times the diameter of the bars bended around the corners).

- 1. Florida Building Code (FBC) 2020.
- 2. ASCE7-16— Minimum Design L9ads for Buildings and Other Structures.
- ACI 318-14-Building Code Requirements for Structural Concrete.
- EM-1110-2-1100 (Part VI): Coastal Engineering Manual 2011

DESIGN LOADS

- Design loads used on this project are based on FBC 2020 and ASCE 7-16.
- Super Imposed Gravity Loads:
- Dead Load (DL): 10 PSF
- Live Load (LL): 100 PSF

PILE DRIVING:

- Pile driving shall be observed by special inspector. This includes testing piles to determine the approximate length required to meet minimum design
- capacity. Cancrete piles shall be driven to required minimum 30 TON bearing capacity. Cancrete piles shall be driven with a drop or growly harmner, which weight is no less than 3,000 lb and the drop shall not exceed 6 FT. Precast concrete piles are $12^{\infty} 12^{\infty}$ with $(4) \frac{2}{16} = 0$ 270 KSI steel strands, with minimum of 20 penetration into firm material below sitt layer, unless otherwise specified in the soil report for the project site. Minimum compressive concrete strength shall be 5,000 psi.

RER - NATURAL RESOURCES DIVISION

NAME Micaela Soldi

DATE 03/10/2021 PRELIMINARY APPROVAL

MARIN & MARIN CONSTRUCTION

Phone:(305) 594.1882 Fax: (305) 594.1884 18516 NW 66th. ST Miami, Florida 33166

E-Mail: marin_marin@bellsouth.net

REPLACEMENT OF EXISTING CONCRETE SEAWALL CAP

No. 88475 ** No. 88
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2775 W 52ND ST, UNIT 405 HIALEAH GARDENS, FL 33016

YISEL MANTILLA, P.E. FLORIDA LICENSE # 88475

Yisel Man

Discount Reason Date:

-23-20

job name

MR. DAMIAN MARTINEZ 1710 BAY DRIVE. MIAMI BEACH FL.

