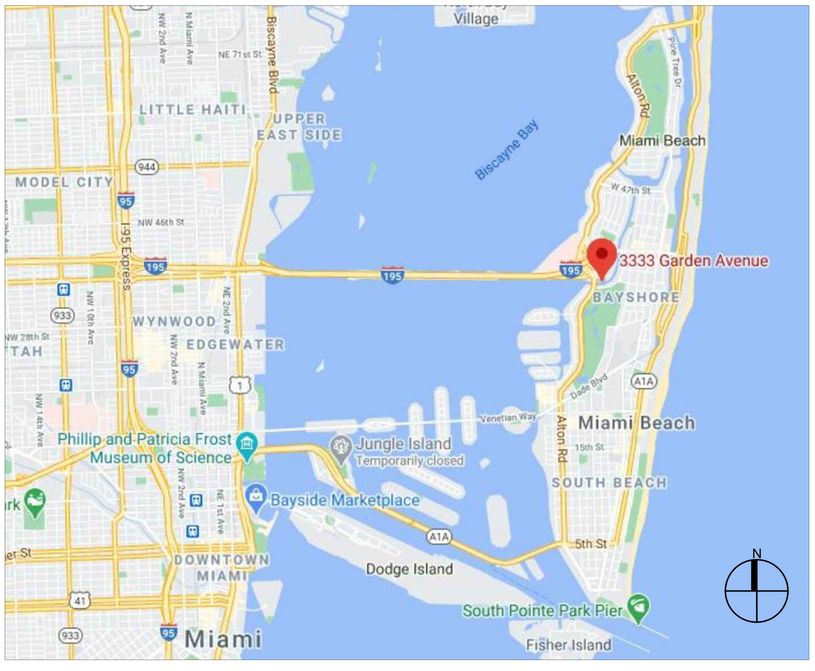
LOCATION MAP AND LEGAL DESCRIPTION



PROJECT SITE LOCATION:
3333 Garden Ave
Miami Beach, FL 33140

LATITUDE: 25°48'34.96"N
LONGITUDE: 80° 8' 6.26"W

FOLIO No.: 02-3227-015-0080

LEGAL DESCRIPTION:
GARDEN SUB AMD SUB PB 31-9
LOTS 1 & 2 BLK 2
LOT SIZE 139.700 X 158

RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021

GENERAL NOTES:
1. ELEVATIONS SHOWN REFER TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
2. ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.
3. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ENGINEER BEFORE PROCEEDING WITH WORK. CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR ALL LINES, ELEVATIONS, AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
4. IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH COUNTY AND FEDERAL ENVIRONMENTAL PERMITS ISSUED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE AND GOVERN HIMSELF BY ALL PROVISIONS OF THESE PERMITS.
5. APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE, 2020 EDITION (AND CURRENT ADDENDUMS).
6. APPROVED CONTRACTOR TO DETERMINE THE SUITABILITY OF EXISTING STRUCTURES AND VERIFY ALL DIMENSIONS. THE APPROVED CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCES AND PROCEDURES OF WORK.
7. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
8. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING WORK.
9. CONTRACTOR TO PROPERLY FENCE AND SECURE AREA WITH BARRICADES.
10. ANY DEVIATION AND/OR SUBSTITUTION FROM THE INFORMATION PROVIDED HEREIN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
11. ALL NEW MATERIALS AND/OR PATCHWORK SHALL BE PROVIDED TO MATCH EXISTING MATERIALS AND/OR ADJOINING WORK WHERE PRACTICAL EXCEPT AS SPECIFICALLY NOTED HEREIN.
12. LICENSED CONTRACTOR SHALL USE ALL POSSIBLE CARE TO PROTECT ALL EXISTING MATERIALS, SURFACES, AND FURNISHINGS FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.
13. THE LICENSED CONTRACTOR TO INSTALL AND REMOVE ALL SHORING AND BRACING AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
14. ALL NEW WORK AND/OR MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF EACH ADMINISTRATIVE BODY HAVING JURISDICTION IN EACH PERTAINING CIRCUMSTANCE.
15. THE CONTRACTOR WILL EMPLOY AND MAINTAIN ADEQUATE SEDIMENT AND EROSION CONTROL MEASURES TO PROTECT BISCAYNE BAY FROM SEDIMENT AND CONSTRUCTION DEBRIS.

DESIGN CRITERIA
STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS:
1. FLORIDA BUILDING CODE (FBC), 2020 EDITION.
2. ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
3. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
4. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2018 EDITION.
5. EM 1110-2-1100 (PART VI) COASTAL ENGINEERING MANUAL, 2011 EDITION.

IN THE EVEN OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND THE REQUIREMENTS OF THE REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE PROVISIONS OF THE MORE STRINGENT SHALL GOVERN.

BOLTS:
1. ALL BOLTS SHALL BE 316 STAINLESS STEEL, UNLESS OTHERWISE NOTED.

DOCK: LL 80 PSF

WOOD
1. PRIMARY WOOD FRAMING MEMBERS SHALL BE NUMBER 1 PRESSURE TREATED MARINE GRADE TEK SOUTHERN PINE, OR BETTER.

ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD.

CONCRETE
1. CONCRETE SHALL CONFORM TO ACI 318 (LATEST ED.) AND SHALL BE REGULAR WEIGHT, SULFATE RESISTANT, WITH A DESIGN STRENGTH OF 5,000 PSI AT 28 DAYS W/ A MAX WATER-CEMENTIOUS MATERIALS RATIO, BY WEIGHT, NORMAL WEIGHT AGGREGATE CONCRETE OF 0.40.
2. OWNER SHALL EMPLOY AND PAY FOR TESTING SERVICES FROM AN INDEPENDENT TESTING LABORATORY FOR CONCRETE SAMPLING AND TESTING IN ACCORDANCE W/ ASTM.
3. LICENSED CONTRACTOR IS RESPONSIBLE FOR THE ADEQUACY OF FORMS AND SHORING AND FOR SAFE PRACTICE IN THEIR USE AND REMOVAL.
4. CONCRETE COVER SHALL BE 3" UNLESS OTHERWISE NOTED ON APPROVED DRAWINGS.
5. REINFORCING STEEL SHALL BE IN CONFORMANCE WITH THE LATEST VERSION OF ASTM A615 GRADE 60 SPECIFICATIONS. ALL REINFORCEMENT SHALL BE PLACED IN ACCORDANCE W/ ACI 315 AND ACI MANUAL OF STANDARD PRACTICE.
6. SPLICES IN REINFORCING BARS SHALL NOT BE LESS THAN 48 BAR DIAMETERS AND REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS AND CHANGES IN DIRECTION. CONTINUITY SHALL BE PROVIDED AT CORNERS OR CHANGES IN DIRECTION BY BENDING THE LONGITUDINAL STEEL AROUND THE CORNER 48 BAR DIAMETERS.

PILE DRIVING NOTES
1. PILE DRIVING OPERATIONS SHALL BE OBSERVED BY A SPECIAL INSPECTOR, INCLUDING TEST PILES SUFFICIENT TO DETERMINE THE APPROXIMATE LENGTH REQUIRED TO MEET DESIGN CAPACITY.
2. PILES SHALL BE DRIVEN USING AN APPROVED CUSHION BLOCK CONSISTING OF MATERIAL SO ARRANGED SO AS TO PROVIDE THE TRANSMISSION OF THE HAMMER ENERGY.
3. PILES SHALL BE DRIVEN TO REQUIRED MINIMUM 15 TON BEARING CAPACITY.
4. PILES SHALL BE DRIVEN WITH A DROP HAMMER OR GRAVITY HAMMER PROVIDED THE HAMMER SHALL WEIGH NO LESS THAN 3,000 POUNDS, AND THE FALL OF THE HAMMER SHALL NOT EXCEED 6 FT.
5. PILES SHALL BE DRIVEN WITH A VARIATION OF NOT MORE THAN ¼" PER FOOT FROM THE VERTICAL, OR FROM THE BATTER LINE INDICATED, WITH A MAX VARIATION OF THE HEAD OF THE PILE FROM THE POSITION SHOWN ON THE PLANS OF NOT MORE THAN 3".
6. WHERE PILING MUST PENETRATE STRATA OFFERING HIGH RESISTANCE TO DRIVING, THE STRUCTURAL ENGINEER OF RECORD OR SPECIAL INSPECTOR MAY REQUIRE THAT PILES BE SET IN PRE-DRILLED OR PUNCHED HOLES. THE PILES SHALL REACH THEIR FINAL PENETRATION BY DRIVING.

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
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3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAN LEVINE
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
340 Minorca Avenue, Suite 7
Coral Gables, Florida 33134
Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:
ADOLFO GONZALEZ P.E.
2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

SEAL / SIGNATURE / DATE

Adolfo J Gonzalez — Digitally signed by Adolfo J Gonzalez Date: 2021.05.24 12:00:05 -04'00'

Adolfo J Gonzalez — Digitally signed by Adolfo J Gonzalez Date: 2021.05.17 09:48:58 -04'00'

Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

PROJECT: 20-10120

PROJECT LOCATION & NOTES

SCALE : AS SHOWN
SHEET NO.
S-1

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OPPOSITE SHORELINE.

R.E.R D-5 BOUNDARY

R.E.R D-5 BOUNDARY

BISCAYNE BAY

RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021

154'
150'

86'

(3) EXISTING WOOD MORNING PILES TO BE REMOVED.

159'-8"

EXISTING CONCRETE SEAWALL AND CAP TO REMAIN.

38.7 LF OF EXISTING CONCRETE BAG FOOTER TO BE REMOVED.

EXISTING WOOD DOCK TO BE REMOVED.

79.6 LF OF EXISTING CONCRETE FOOTER TO REMAIN.

67'-5"

69'-9"

22'-6"

41'-2"

TOP OF CAP
EL. +4.00' NAVD

45°

79.6 LF OF EXISTING CONCRETE BAG FOOTER TO BE CUT AS NECESSARY.

11'-6"

5'-4"

7'-10"

45°

A
S-4

UNAUTHORIZED DAVIT CRANE AND CONCRETE PAD TO BE REMOVED.

UNAUTHORIZED 15" S-TYPE MOORING CLEATS TO BE REMOVED.

E
S-6

13'-3"

12'-9"

PROPERTY LINE

TOP OF CAP
EL. +4.10' NAVD

C
S-5

79'-10"

79'-7"

PROPERTY LINE

PROPERTY LINE

EXISTING CONDITIONS
-3333 GARDEN AVE -
Miami Beach, FL

N

0 10' 20'
GRAPHIC SCALE

3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAIN LEBEVRE
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
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2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

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Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.24 12:00:27 -04'00'

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.17 09:49:21 -04'00'
Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

PROJECT: 20-10120

EXISTING CONDITIONS

SCALE : AS SHOWN
SHEET NO.
S-2

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OPPOSITE SHORELINE.

BISCAYNE BAY

R.E.R D-5 BOUNDARY

159'-8"

(4) NEW 12" DIA. CCA MARINE TREATED WOOD MORNING PILES DRIVE TO A 15 TON. MIN. BEARING CAPACITY.

≈ 154'

≈ 150'

68'-2"

20'

≈ 143'

20'

20'

31'-6"

20'

SEE SEAWALL IMPROVEMENTS BELOW.

NEW 693.5 SF WOOD DOCK SUPPORTED BY (12) NEW 12" DIA WOOD DOCK PILES.

67'-2"

70'

22'-6"

TOP OF NEW CAP EL. +5.70' NAVD

45°

8'-8"

7'

12'

2'-8"

PROPERTY LINE

79'-10"

79'-7"

RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021

PROPERTY LINE

PROPOSED CONDITIONS
-3333 GARDEN AVE -
Miami Beach, FL

159'-8"

80'-5"

79'-3"

TOP OF NEW CAP EL. +5.70' NAVD

5' O.C. MAX

EXISTING CONCRETE SEAWALL TO REMAIN.

NEW 4' LONG, INTERLOCKING AWL-3 ALUMINUM SHEET PILING TOEWALL FOOTER.

EXISTING CONCRETE FOOTER TO REMAIN.

NEW REINFORCED CONCRETE SEAWALL CAP INSTALLED ATOP EXISTING SEAWALL.

(33) NEW 12"x 12" P.S. CONCRETE BATTER PILES SPACED AT 5' O.C. MAX.

45°

2'-8"

41'-2"

38'-8"

PROPERTY LINE

79'-10"

79'-7"

B S-4

F S-6

D S-5

PROPOSED SEAWALL CONDITIONS
-3333 GARDEN AVE -
Miami Beach, FL

N

0 10' 20'

GRAPHIC SCALE

3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAIN BELLEVUE
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
340 Minorca Avenue, Suite 7
Coral Gables, Florida 33134
Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:
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2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

SEAL / SIGNATURE / DATE

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.24 12:00:40 -04'00'

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.17 09:49:39 -04'00'
Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

PROJECT: 20-10120

PROPOSED CONDITIONS

SCALE : AS SHOWN

SHEET NO.
S-3

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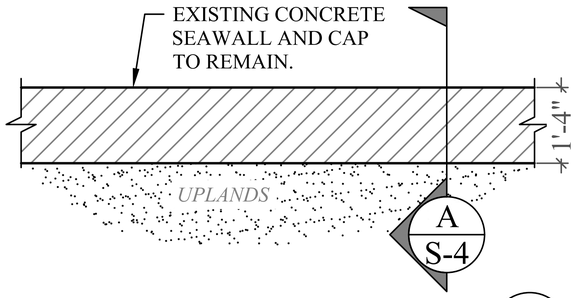
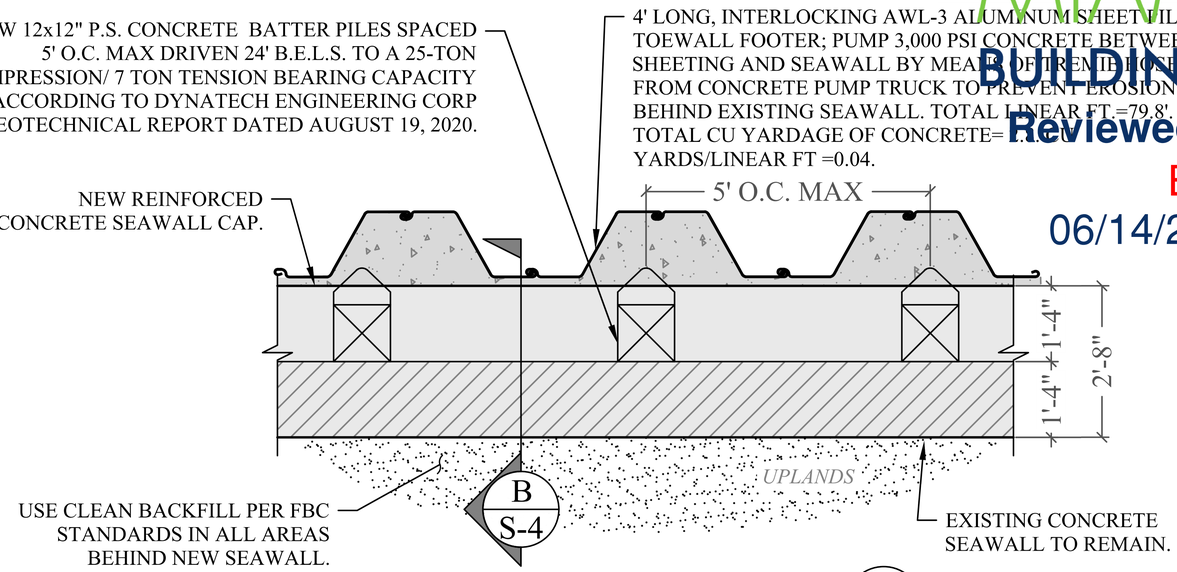


EXISTING SEAWALL CONDITION 1/S-4
SCALE: 3/8" = 1'-0"



PROPOSED SEAWALL CONDITION 2/S-4
SCALE: 3/8" = 1'-0"

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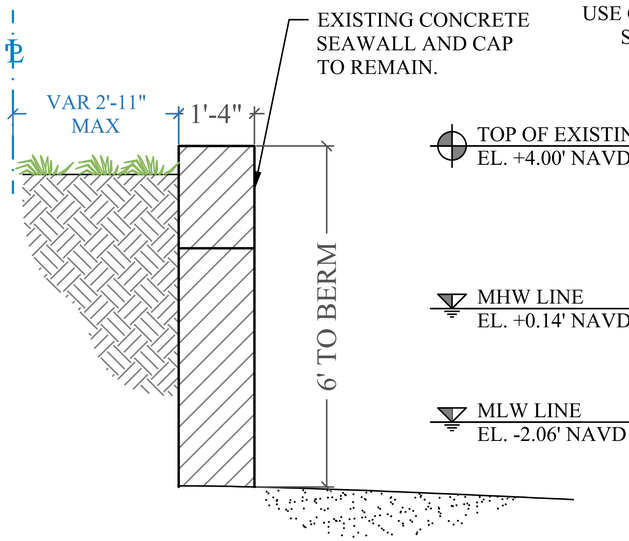
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021



EXISTING SEAWALL SECTION A/S-4
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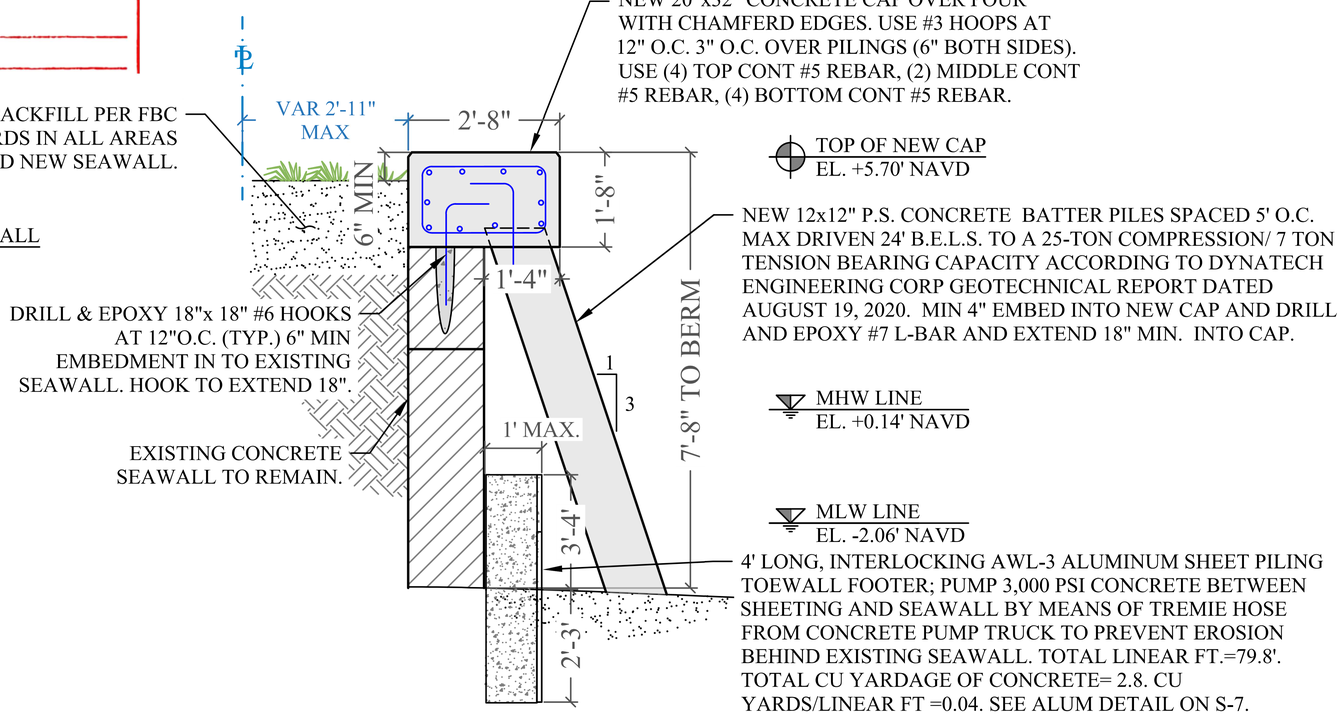

PROPOSED SEAWALL SECTION B/S-4
SCALE: 3/8" = 1'-0"

3333 GARDEN AVE
WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAN DELEVINE
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
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Coral Gables, Florida 33134
Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:
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2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

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Date: 2021.05.24 12:00:55 -04'00'

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Adolfo Gonzalez
Lic. No. 58620

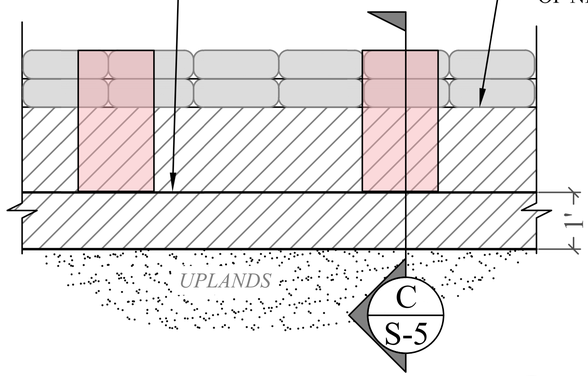
PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

PROJECT: 20-10120

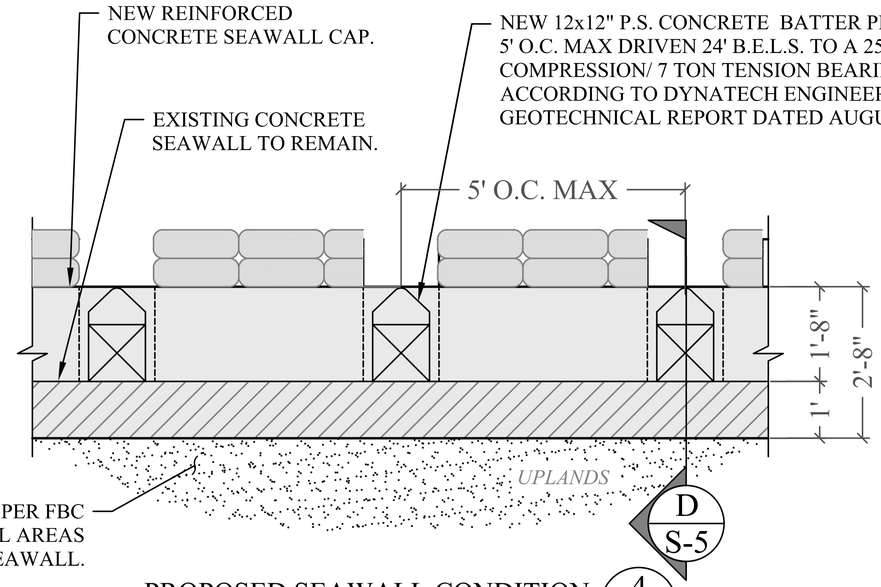
SEAWALL DETAILS AND SECTIONS

SCALE : AS SHOWN
SHEET NO.
S-4



EXISTING SEAWALL CONDITION 3 / S-5

SCALE: 3/8" = 1'-0"



PROPOSED SEAWALL CONDITION 4 / S-5

SCALE: 3/8" = 1'-0"

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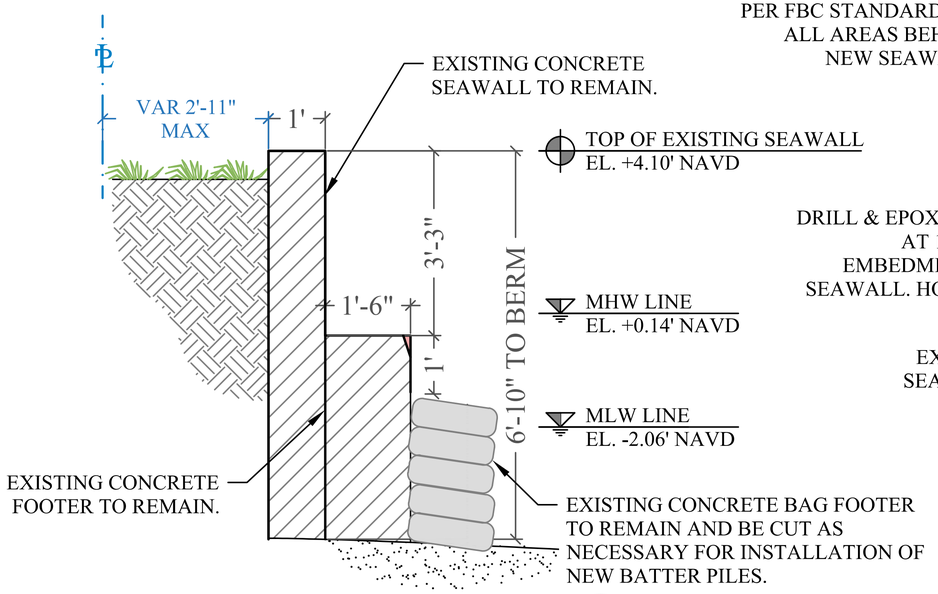
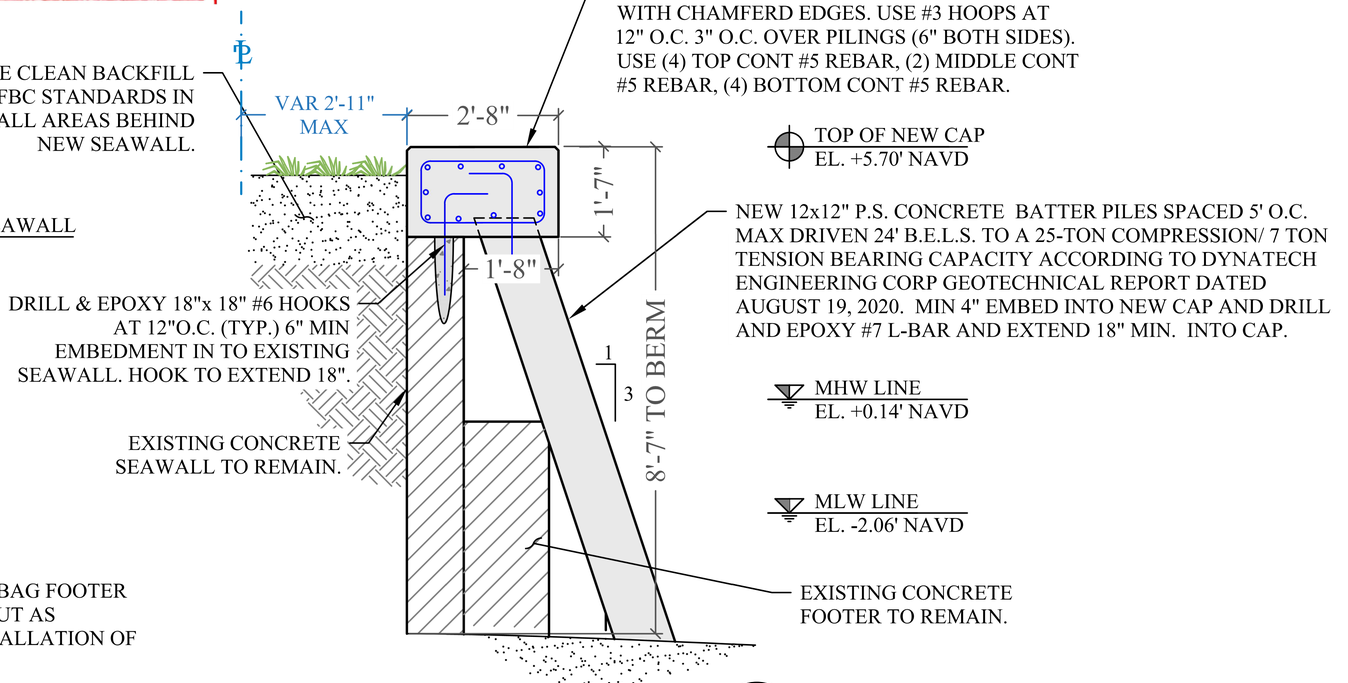
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021



EXISTING SEAWALL SECTION C / S-5

SCALE: 3/8" = 1'-0"



PROPOSED SEAWALL SECTION D / S-5

SCALE: 3/8" = 1'-0"

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3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAN LEVINE
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
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Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:
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2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

SEAL / SIGNATURE / DATE

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.24 12:01:14 -04'00'

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.17 09:50:23 -04'00'

Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

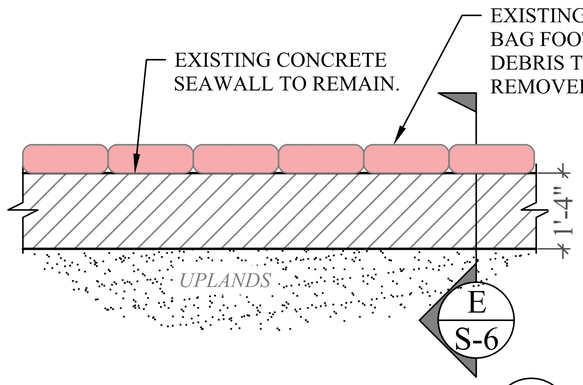
Issue #	Issue Date
1	May 14, 2021

PROJECT: 20-10120

SEAWALL DETAILS AND SECTIONS

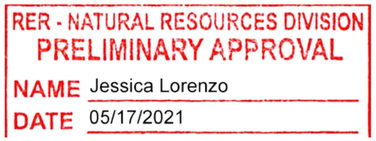
SCALE : AS SHOWN

SHEET NO.
S-5



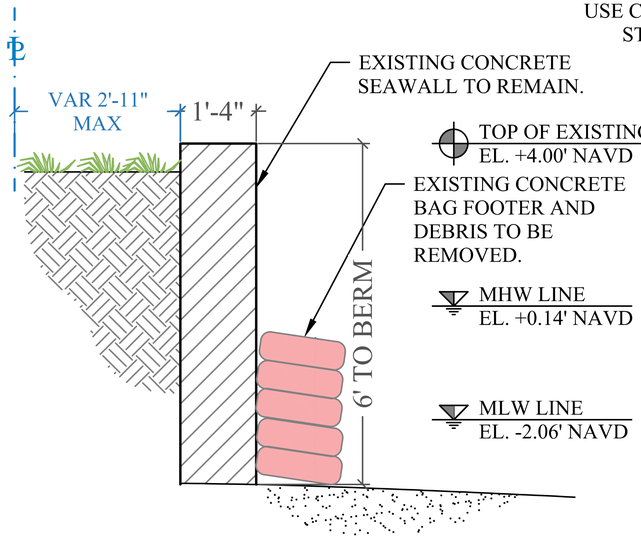
EXISTING SEAWALL CONDITION 5/S-6

SCALE: 3/8" = 1'-0"



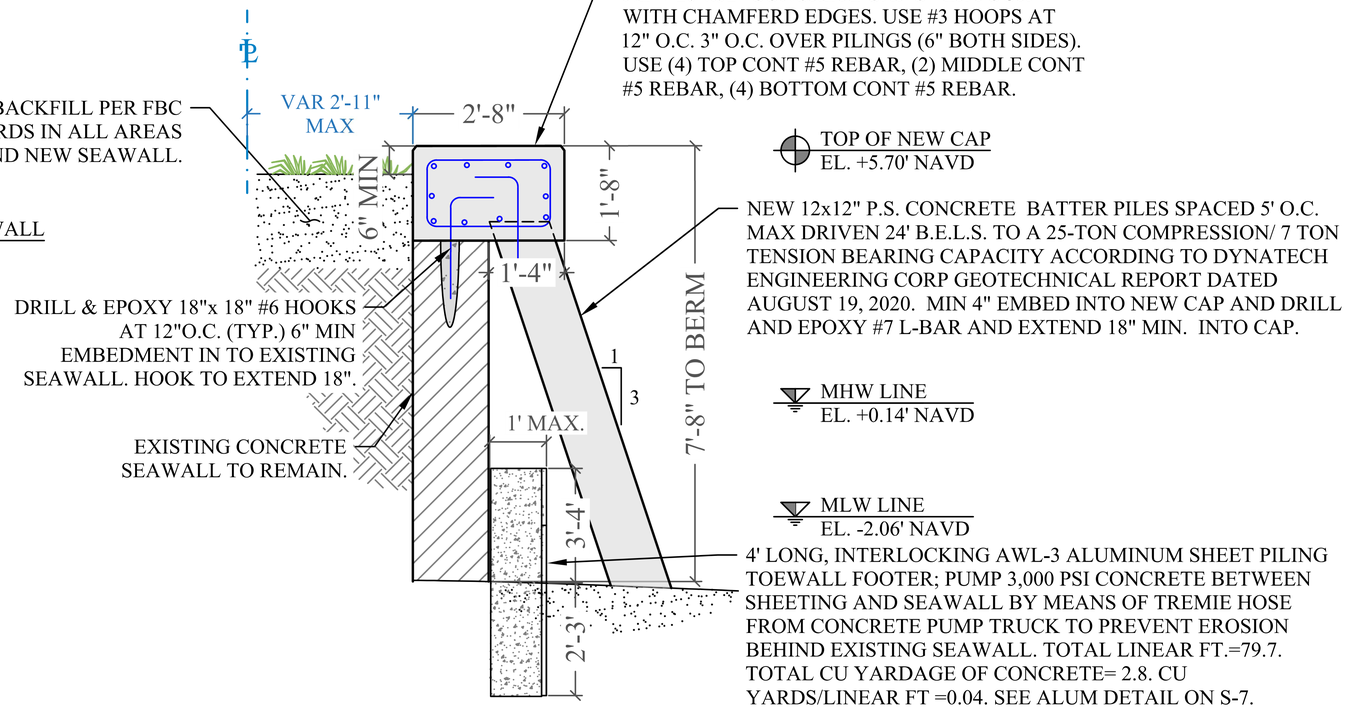
PROPOSED SEAWALL CONDITION 6/S-6

SCALE: 3/8" = 1'-0"



EXISTING SEAWALL SECTION E/S-6

SCALE: 3/8" = 1'-0"



PROPOSED SEAWALL SECTION F/S-6

SCALE: 3/8" = 1'-0"

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3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT

Miami Beach, Florida

CLIENT:

MR. ALEXANDER TINE

3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:

OCEAN CONSULTING, LLC

340 Minorca Avenue, Suite 7
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CONTRACTOR:

PROJECT ENGINEER:

ADOLFO GONZALEZ P.E.

2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

SEAL / SIGNATURE / DATE

Adolfo J Gonzalez — Digitally signed by Adolfo J Gonzalez Date: 2021.05.24 12:01:29 -04'00'

Adolfo J Gonzalez — Digitally signed by Adolfo J Gonzalez Date: 2021.05.17 09:50:55 -04'00'

Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

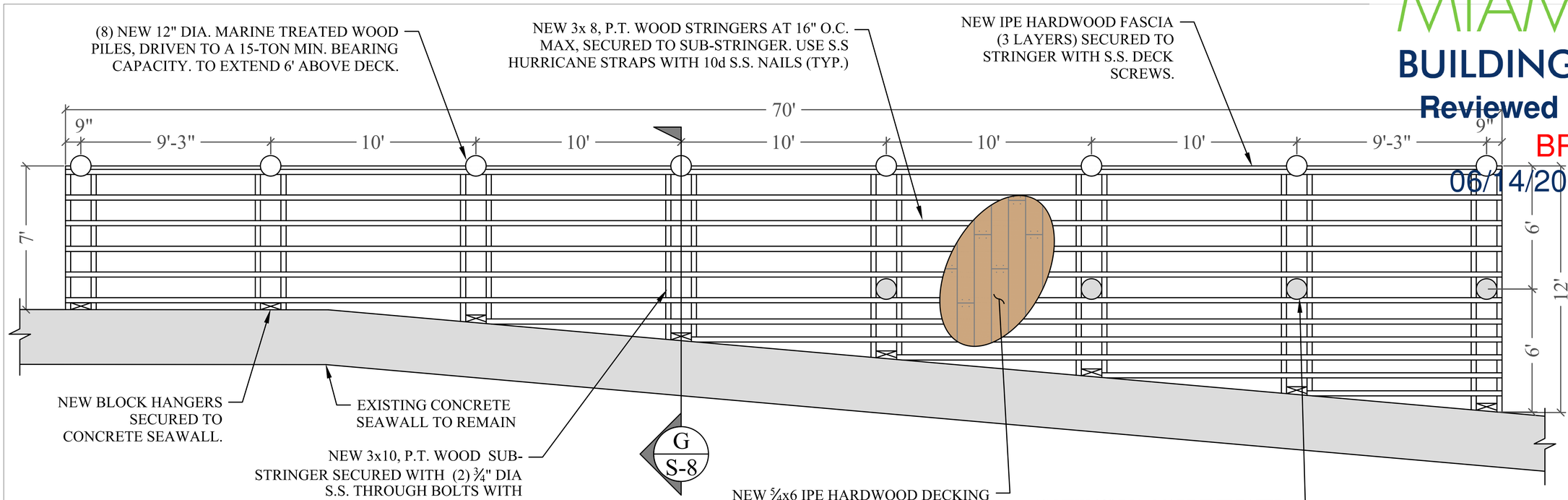
PROJECT: 20-10120

SEAWALL DETAILS AND SECTIONS

SCALE : AS SHOWN

SHEET NO.

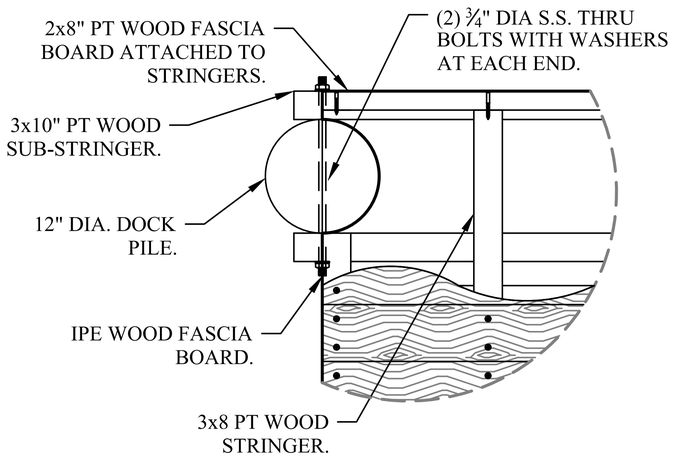
S-6



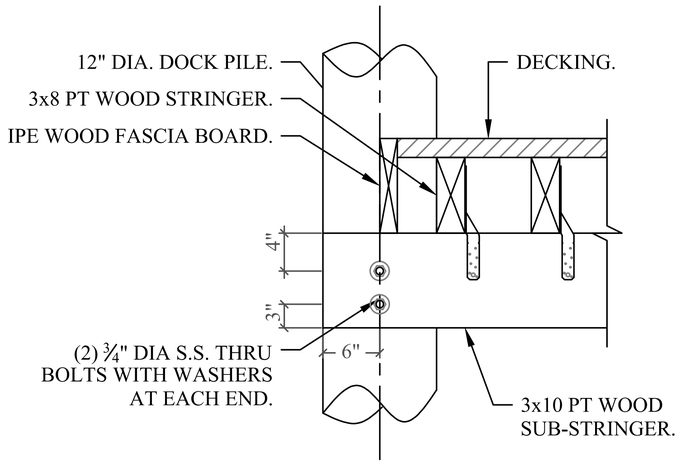
DOCK FRAMING PLAN

SCALE: 3/16" = 1"

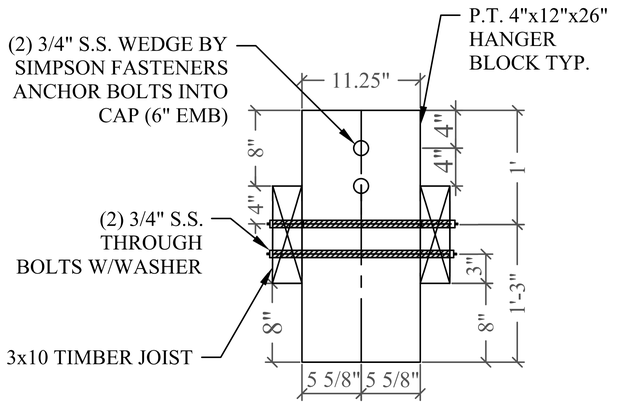
RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021



TYPICAL DOCK EDGE PLAN DETAIL 7 / S-7
SCALE: ¾" = 1'-0"



TYPICAL DOCK EDGE DETAIL 8 / S-7
SCALE: ¾" = 1'-0"



MARGINAL DOCK HANGER BLOCK DETAIL 9 / S-7
SCALE: ¾" = 1'-0"

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BUILDING DEPARTMENT
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3333 GARDEN AVE WATERFRONT IMPROVEMENTS PROJECT
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340 Minorca Avenue, Suite 7
Coral Gables, Florida 33134
Tel: (305) 921-9344
Fax: (305) 677-3254

CONTRACTOR:

PROJECT ENGINEER:
ADOLFO GONZALEZ P.E.
2050 Coral Way Suite 502
Miami Fl 33145
Tel: (305) 415 8732

SEAL / SIGNATURE / DATE

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.24 12:01:43 -04'00'

Adolfo J Gonzalez
Digitally signed by Adolfo J Gonzalez
Date: 2021.05.17 09:51:12 -04'00'
Adolfo Gonzalez
Lic. No. 58620

PERMIT DRAWINGS

Issue #	Issue Date
1	May 14, 2021

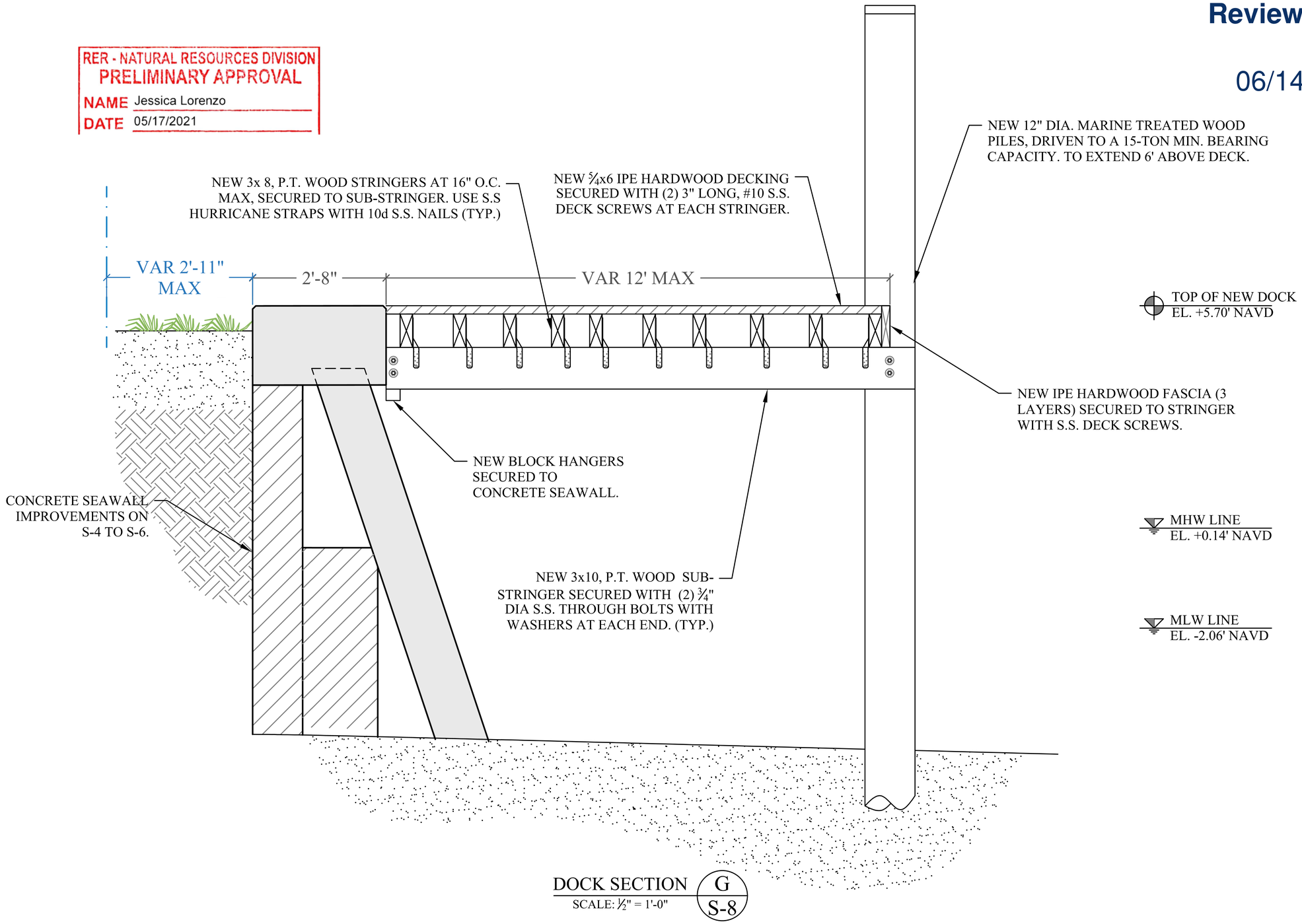
PROJECT: 20-10120

DOCK FRAMING PLAN AND DETAILS

SCALE : AS SHOWN
SHEET NO.
S-7

RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME Jessica Lorenzo
DATE 05/17/2021

MIAMIBEACH
BUILDING DEPARTMENT
Reviewed For Compliance
BR21034?7
06/14/2021 11:48:31 AM



DOCK SECTION G / S-8
SCALE: 1/2" = 1'-0"

3333 GARDEN AVE
WATERFRONT IMPROVEMENTS PROJECT
Miami Beach, Florida

CLIENT:
MR. ALAIN LEVAVI
3333 Garden Avenue
Miami Beach, Florida 33140

ENVIRONMENTAL CONSULTANT:
OCEAN CONSULTING, LLC
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Date: 2021.05.17 09:51:27 -04'00'

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Lic. No. 58620

PERMIT DRAWINGS

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1	May 14, 2021

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DOCK SECTION

SCALE : AS SHOWN
SHEET NO.
S-8

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06/14/2021 11:48:31 AM

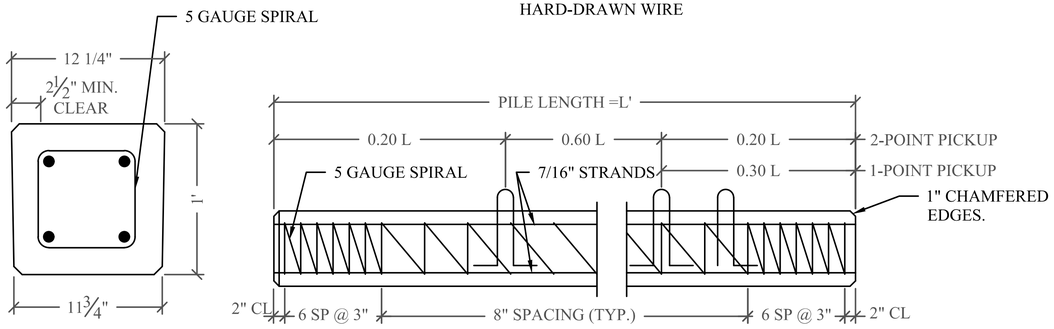
PILE NOTE:

CONCRETE COMPRESIVE STRENGTH:
3000 PSI @ RELEASE
5000 PSI @ DRIVING

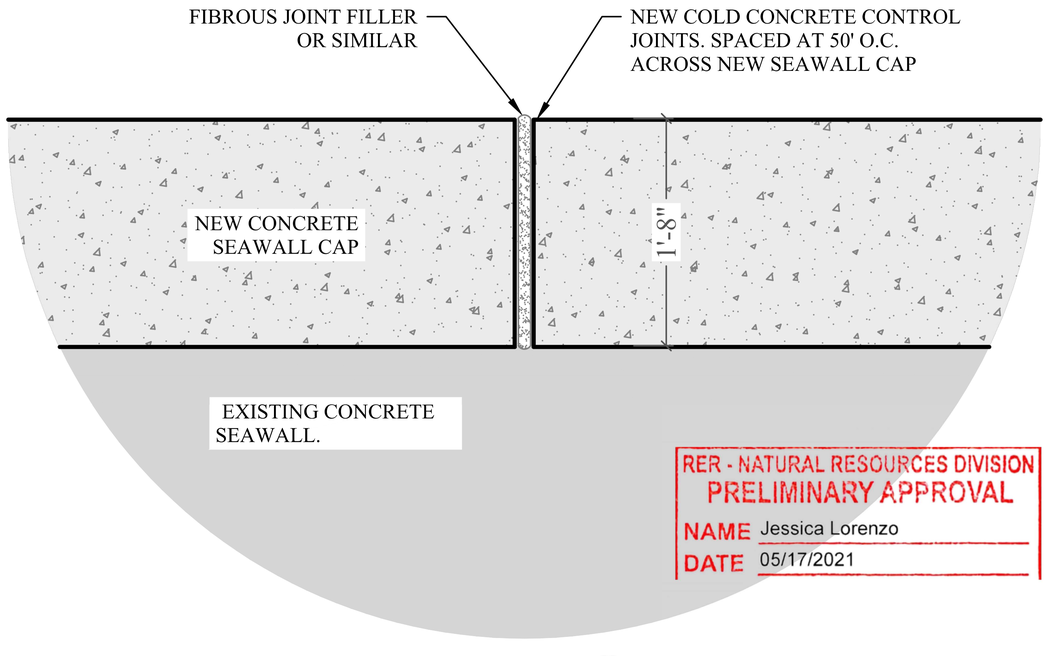
STRANDS - USE FOUR 7/16" (270K)
LOW RELAXATION ASTM 416-87 UNCOATED
7-WIRE STRANDS TENSIONED TO 2.33 KIPS EACH

1-POINT PICKUP-MAXIMUM L = 50'
2-POINT PICKUP-MAXIMUM L = 62'

SPIRAL TO BE ASTM A-82 TIGHT
HARD-DRAWN WIRE



CONCRETE PILE DETAIL 10/S-9
SCALE: 1" = 1'-0"



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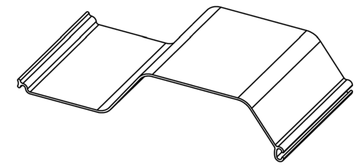
COLD JOINT DETAIL 11/S-9
SCALE: ¾" = 1'-0"

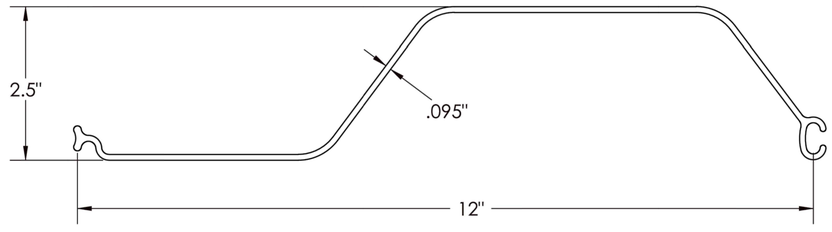
CRANE MATERIALS INTERNATIONAL

GATORAluminum™ Sheet Piling and Components
Updated January 1, 2019

AWL-3



MAX Allowable Moment (M)	1,950 ft-lb/ft	8.67 kN-m/m
Section Modulus (Z)	1.2 in^3/ft	65 cm^3/m
Moment of Inertia (I)	1.5 in^4/ft	205 cm^4/m
Thickness (t)	0.095 in	2.4 mm
Section Depth	2.5 in	64 mm
Section Width	12 in	305 mm
Design Modulus of Elasticity (E)	10 x10^6 psi	68,900 Mpa
Material	6061-T6 Marine Grade Aluminum	
Standard Colors	Mill Finish	
Profile/Patented Features	Pan Profile	



Physical properties are defined by ASTM testing standards, The Aluminum Association Design Manual, The Naval Facilities Design Manual DM 7.2, The US Army Corps of Engineers General Design Guide: PVC Sheet Pile and/or standard engineering practice. The values shown are nominal and may vary. The information found in this document is believed to be true and accurate. No warranties of any kind are made as to the suitability of any CMI product for particular applications or the results obtained there from. Crane Materials International is a Crane Building Products® company. ShoreGuard®, The ShoreGuard Seawall System™, C-Loc®, TimberGuard®, GeoGuard®, Dura Dock®, Shore-All®, GatorGates®, GatorDock EliteTM, ArmorWareTM, ArmorRodTM, Box ProfileTM, UltraComposiiteTM, Elite WallTM, Elite PanelTM, Elite Fascia PanelTM, Flat PanelTM, XCRTM, XCR TechnologyTM, XCR VinylTM, GatorBridgeTM, Gator AluminumTM, Gator Sheet PilingTM, GatorDockTM, I-Beam LockTM, Textured SlateTM, Crane Materials InternationalTM logo, CMI Sheet Piling SolutionsTM, Aqua Terra SystemTM, EnduranceTM, Endurance CSPTM, PolarisTM, EclipseTM, GridSpineTM, 21 PolyTM, PileClawTM, SheerScapeTM, SheerScape Retaining Wall SystemsTM, Sheer PanelTM and CMI Waterfront SolutionsTM are trademarks, service marks or trade names of Crane Materials International. United States and International Patent numbers 4,674,921; 4,690,588; 5,292,208; 5,145,287; 6,000,883; 6,033,155; 6,053,666; D420,154; 6,575,667; 7,059,807; 7,056,066; 7,025,539; 7,393,482; 5,503,503; 5,803,672; 6,231,271; 1,245,061CA and other patents pending. © 2011 Crane Materials International. All Rights Reserved.

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CONCRETE PILE AND COLD JOINT DETAILS

SCALE : AS SHOWN
SHEET NO.
S-9