

# STRUCTURAL PLANS FOR A NEW SEAWALL INSTALLATION AT:

# SEA DUNES SAILFISH

4355 SOUTH ATLANTIC AVENUE  
NEW SMYRNA BEACH, FLORIDA 32169



## PROJECT DIRECTORY

ENGINEER OF RECORD - FLORIDA LICENSE NO. 15113



**CRA** Charles R. Adams  
& Associates, Inc.  
STRUCTURAL ENGINEERS

414 Canal Street - New Smyrna Beach, FL 32168 - 386.426.5583  
C.A. 4180

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## SCOPE OF WORK

COMMERCIAL - NEW EMERGENCY SEAWALL REPAIR

## PROJECT CODE DATA

7th EDITION FLORIDA BUILDING CODE	2020
FLORIDA ADMINISTRATIVE CODE 62B-33	2020
VOLUSIA COUNTY CODE OF ORDINANCES - PART I - CHAPTER 50 - ARTICLE III - DIVISION 9 - SECTION 50-351	2023
ASCE 7-16	2016
USACE COASTAL ENGINEERING MANUAL	2002
USACE DESIGN OF COASTAL REVETMENTS, SEAWALLS, AND BULKHEADS	1995
USACE SHORE PROTECTION MANUAL VOLUMES I & II	1984
USACE DESIGN OF SHEET PILE WALLS	1994
DOD HANDBOOK - SEAWALLS, BULKHEADS, AND QUAY WALLS	2006
ACI 318 / 19	2022

## DIGITAL SEAL

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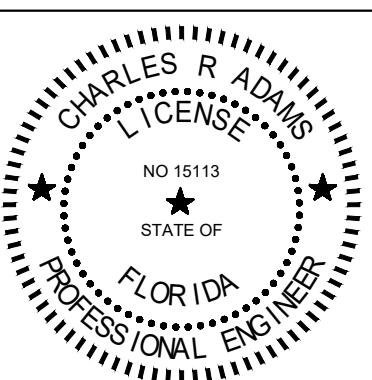
## REVISION LOG

DATE DESCRIPTION

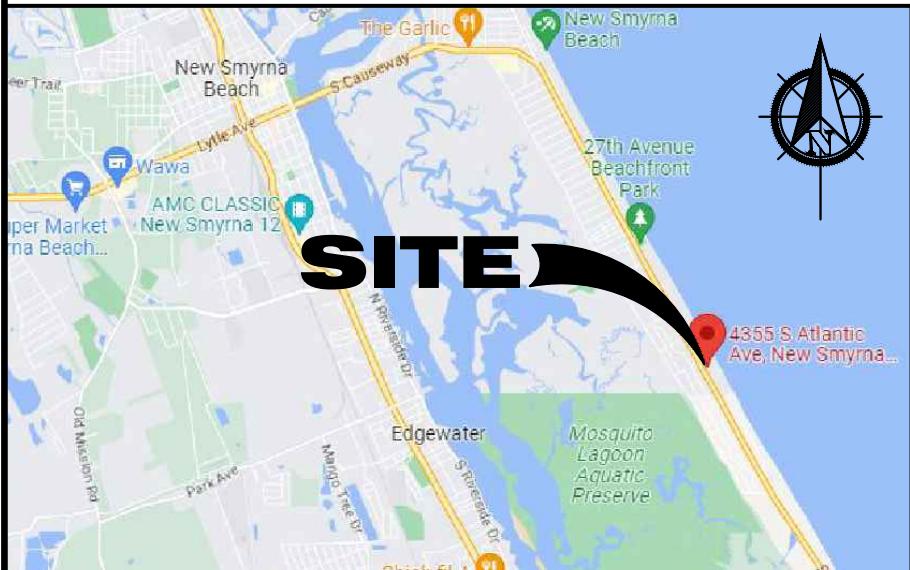
3/14/23 DEP COMMENTS

3/30/23 EOR REVISIONS

4/7/23 DEP COMMENTS



## LOCATION MAP



## SYMBOLS LEGEND

	ELEVATION		ELEVATION HT
	SECTION		DOOR NUMBER
	DETAIL		WINDOW NUMBER
	KEY NOTE		REVISION NUMBER
	WALL TYPE		ROOM NAME

## ABBREVIATIONS

ALUM	ALUMINUM
CCCL	COASTAL CONSTRUCTION CONTROL LINE
CMU	CONCRETE MASONRY UNIT
CM	CRANE MATERIALS INTERNATIONAL
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
C/L	CENTER LINE
DBL	DOUBLE
DIA	DIAMETER
DM	DIMENSION
EA	EACH
EC	EVERCOMP
ELEC	ELECTRICAL
ELEV/EL	ELEVATION
EQ	EQUAL
EOR	ENGINEER OF RECORD
ESP	EVERLAST SYNTHETIC PRODUCTS
EXIST	EXISTING
FFE	FINISHED FLOOR ELEVATION
FRP	FIBER-REINFORCED POLYMER
FT	FEET
GALV	GALVANIZED
GBFS	GRANULATED BLAST FURNACE SLAG
HDG	HOT DIPPED GALVANIZED
HP	HELICAL PILE
INFO	INFORMATION
KSI	KIPS PER SQUARE INCH
MAX	MAXIMUM
M.G	MARINE GRADE
MFG/MFR	MANUFACTURER
MHWL	MEAN HIGH WATER LINE
MN	MINIMUM
NA	NOT APPLICABLE
NC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PT	PAINT/PRESSURE TREATED/POST TENSION
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCE
REQ'D	REQUIRED
RO	ROUGH OPENING
SG	SHOREGUARD
SIM	SIMILAR
UC	ULTRA COMPOSITE
VF	VERIFY IN FIELD
YD	YARD

## WIND LOAD DATA

BASIC WIND SPEED: CATEGORY II	140
WIND EXPOSURE	D
OPEN STRUCTURE	
WIND PRESSURE FOR COMPONENTS & CLADDING: (ASD)	
ZONE:	PRESSURE (psf):
ZONE 1	+23.19 -42.39
ZONE 2	+23.19 -69.64
ZONE 3	+23.19 -54.00
ZONE 4	+32.91 -35.77
ZONE 5	+32.91 -43.48

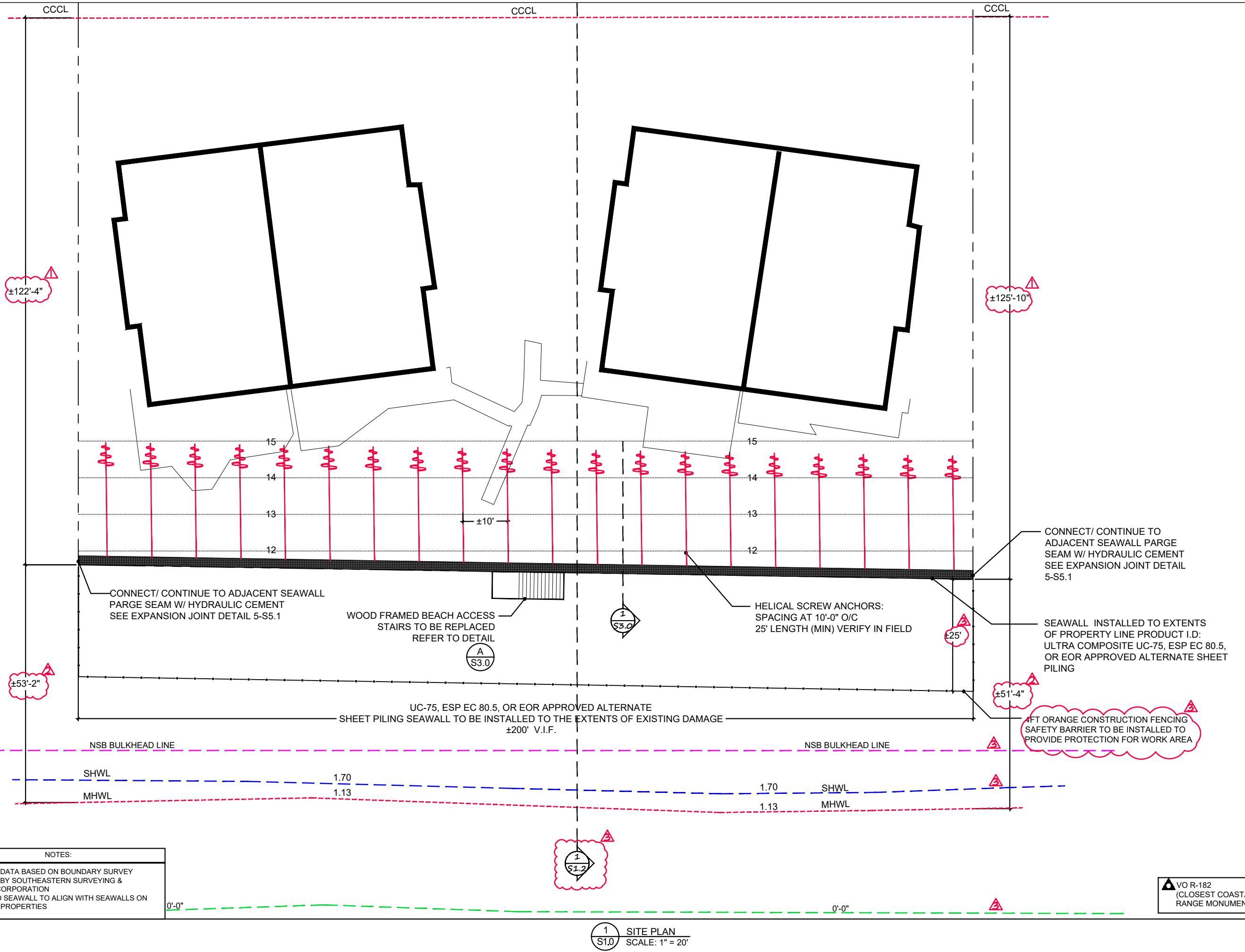
## JURISDICTION

CITY OF NEW SMYRNA BEACH

## STATEMENTS OF COMPLIANCE

TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODES AND LAND DEVELOPMENT REGULATIONS.

I HEREBY CERTIFY THAT THE ENCLOSED DESIGN PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE RULE CHAPTER 62B-33.051.



# SEA DUNES SAILFISH

4355 SOUTH ATLANTIC AVENUE  
NEW SMYRNA BEACH, FL 32169

NO	REMARKS	DATE
▲ EOR REVISIONS	3/30/23	
▲ DEF COMMENTS	4/1/23	

CHARLES R. ADAMS  
LICENSE NO. 15113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

**SITE PLAN**

DRAWN BY EAA SHEET 2 OF 11  
CHECKED BY JAA  
SCALE AS NOTED  
DATE 7 MAR 2023

**S1.0**

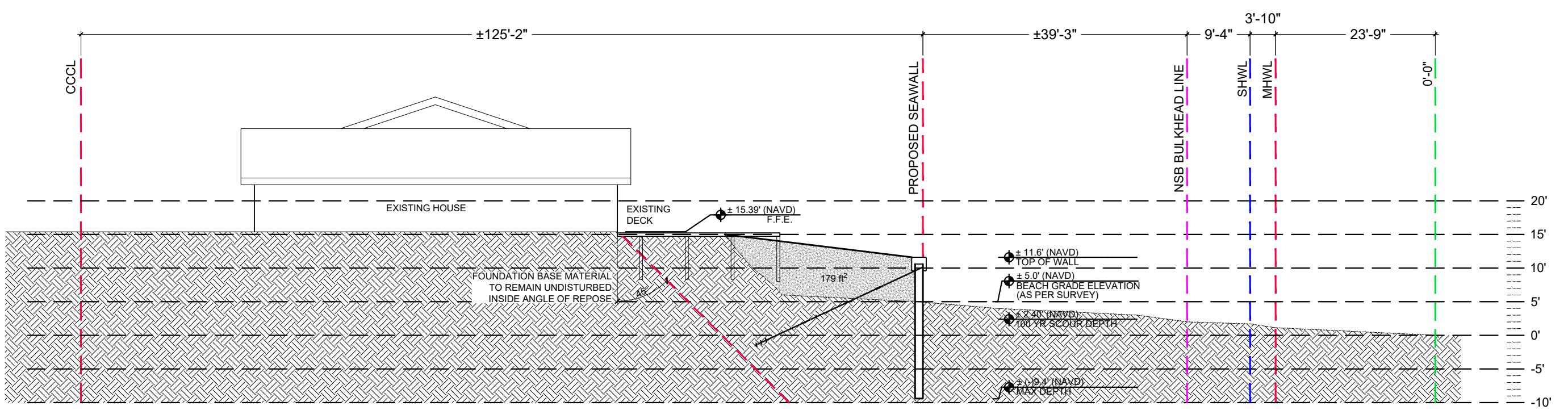
MATERIALS LIST				
UC-75, ESP EC 80.5 EOR APPROVED ALTERNATE	20' TALL SHEET MAX	$\pm 200$ lf $\pm 4,000$ ft <sup>2</sup>	<0.05% DISPLACEMENT	
CONCRETE CAP BEAM	26" x 24" x 200'	$\pm 866.7$ ft <sup>3</sup>	0% DISPLACEMENT	
MARINE GRADE WOOD POSTS	6" x 6" x 72" EMBEDDED	8 QTY	$\pm 12$ ft <sup>3</sup> DISPLACEMENT	
HELICAL SCREW ANCHOR	AS PER DETAIL	20 QTY	0% DISPLACEMENT	
BEACH COMPATIBLE SAND FILL	$\pm 179$ ft <sup>2</sup> x 200'	$\pm 35,800$ ft <sup>3</sup>	$\pm 1,326$ YD <sup>3</sup> <span style="color:red">▲</span>	
WASHED #57 ROCK	17 WEEPS @ 1YD EACH		$\pm 17$ YD <sup>3</sup> <span style="color:red">▲</span>	

2 REPAIR DETAILS  
S1.0 SCALE: 1/4" = 1'-0"

1 NOT USED  
S1.0

STRUCTURAL PLANS FOR A NEW SEAWALL AT THE <b>SEA DUNES SAILFISH</b> 4355 SOUTH ATLANTIC AVENUE NEW SMYRNA BEACH, FL 32169		
NO	REMARKS	DATE
MATERIAL QUANTITIES, SITE PLAN, INSTALLATION DETAILS		
DRAWN BY EAA	SHEET 3 OF 11	
CHECKED BY JAA		
SCALE AS NOTED		
DATE 7 MAR 2023		

**S1.1**



1

S12 GRADING DETAIL  
SCALE: 1/16" = 1'-0"

# SEA DUNES SAILFISH

4355 SOUTH ATLANTIC AVENUE  
NEW SMYRNA BEACH, FL 32169

NO	REMARKS	DATE
A	DEP COMMENTS	4/1/23
CHARLES R. ADAMS LICENSE NO. 15113 STATE OF FLORIDA PROFESSIONAL ENGINEER		
GRADING DETAIL		
DRAWN BY EAA	SHEET 4 OF 11	
CHECKED BY JAA		
SCALE AS NOTED		
DATE 7 MAR 2023		

S1.2



DAMAGE SURVEY PHOTOGRAPH - 1



DAMAGE SURVEY PHOTOGRAPH - 2



DAMAGE SURVEY PHOTOGRAPH - 3



DAMAGE SURVEY PHOTOGRAPH - 4



DAMAGE SURVEY PHOTOGRAPH - 5

# SEA DUNES SAILFISH

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NO	REMARKS	DATE

CHARLES R. ADAMS  
LICENSURE NO. 15113  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DAMAGE SURVEY PHOTOS

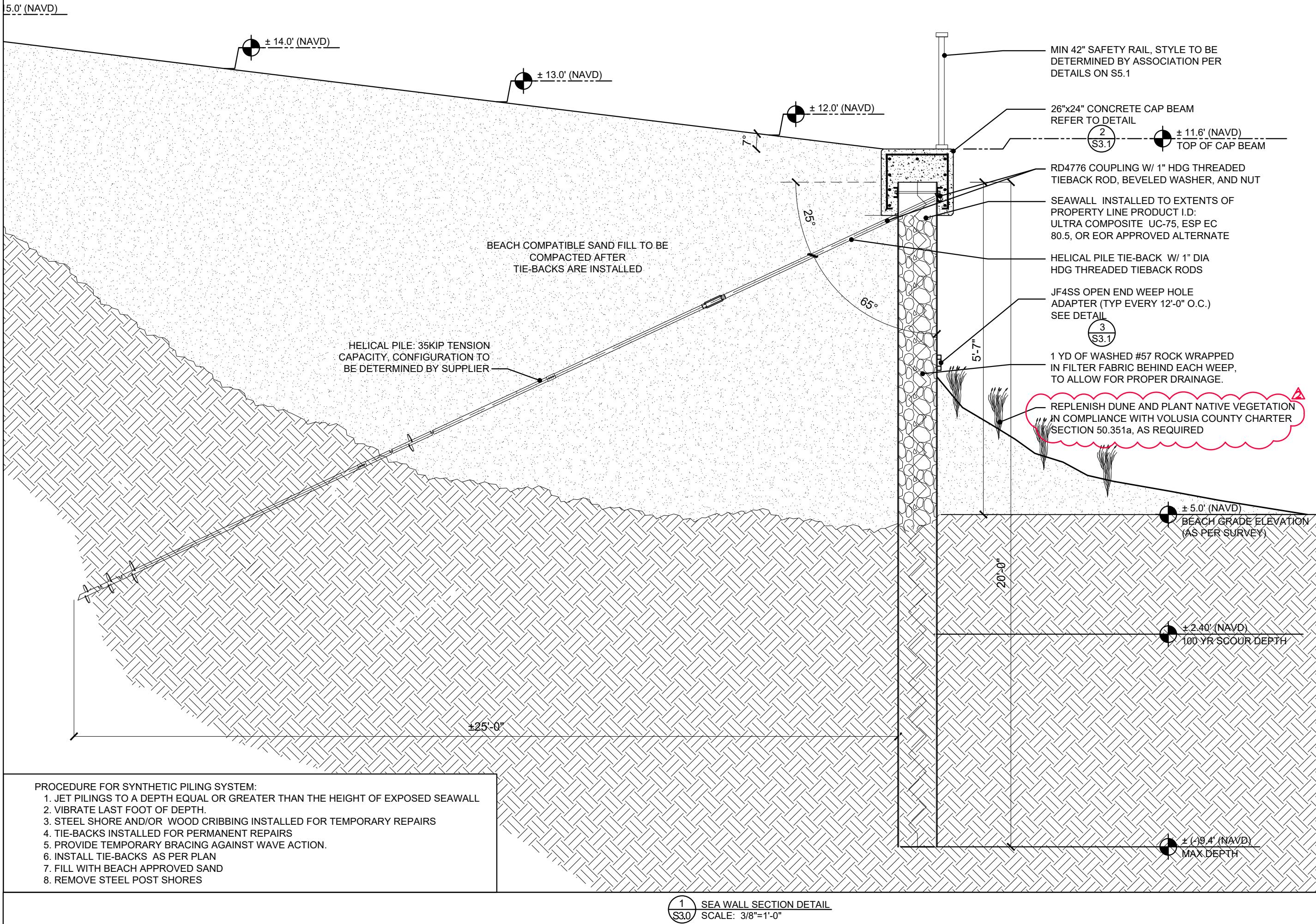
DRAWN BY EAA SHEET 5 OF 11  
CHECKED BY JAA  
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S2.0

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221201 - SEA DUNE SAILFISH CD SET.DWG



# SEA DUNES SAILFISH

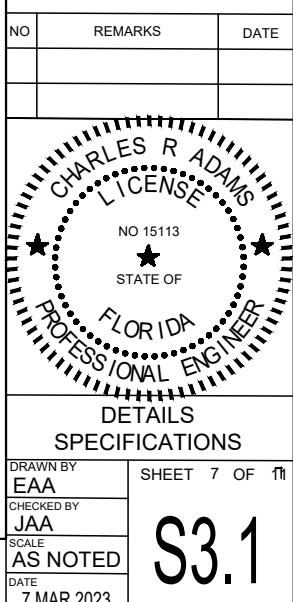
4355 SOUTH ATLANTIC AVENUE  
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NO	REMARKS	DATE
A	EOR REVISIONS	3/30/23
CHARLES R. ADAMS LICENSURE NO 15113 STATE OF FLORIDA PROFESSIONAL ENGINEER		
SEAWALL SECTION		
DRAWN BY EAA	SHEET 6 OF 11	
CHECKED BY JAA		
SCALE AS NOTED		
DATE 7 MAR 2023		

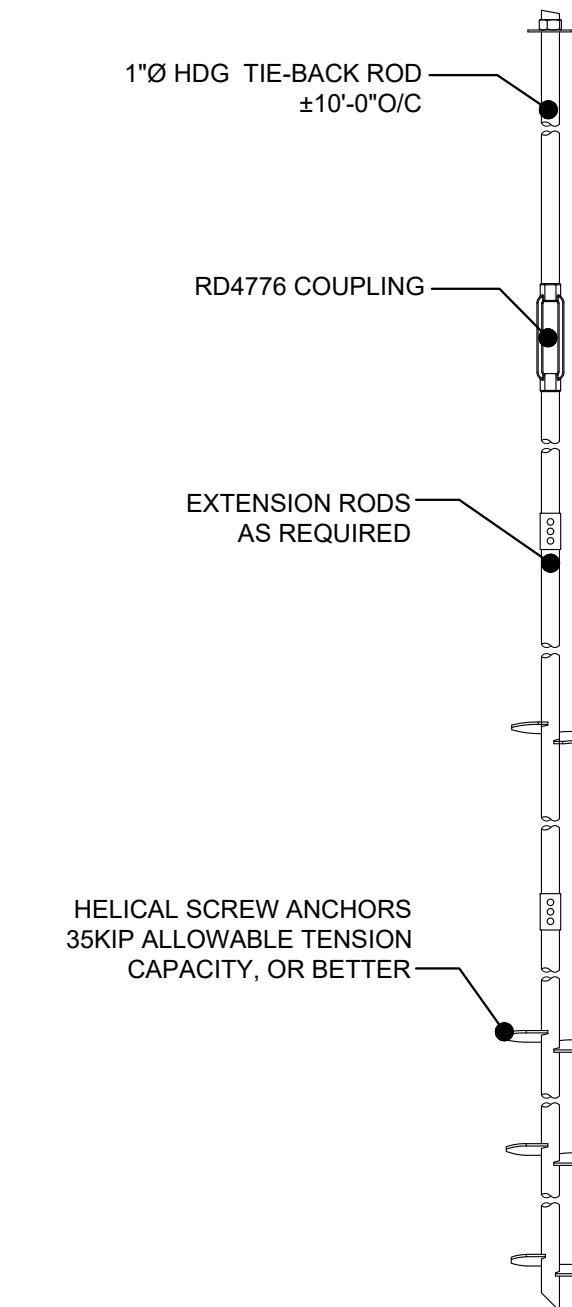
# SEA DUNES SAILFISH

4355 SOUTH ATLANTIC AVENUE  
NEW SMYRNA BEACH, FL 32169

STRUCTURAL PLANS FOR A NEW SEAWALL AT THE



S3.1

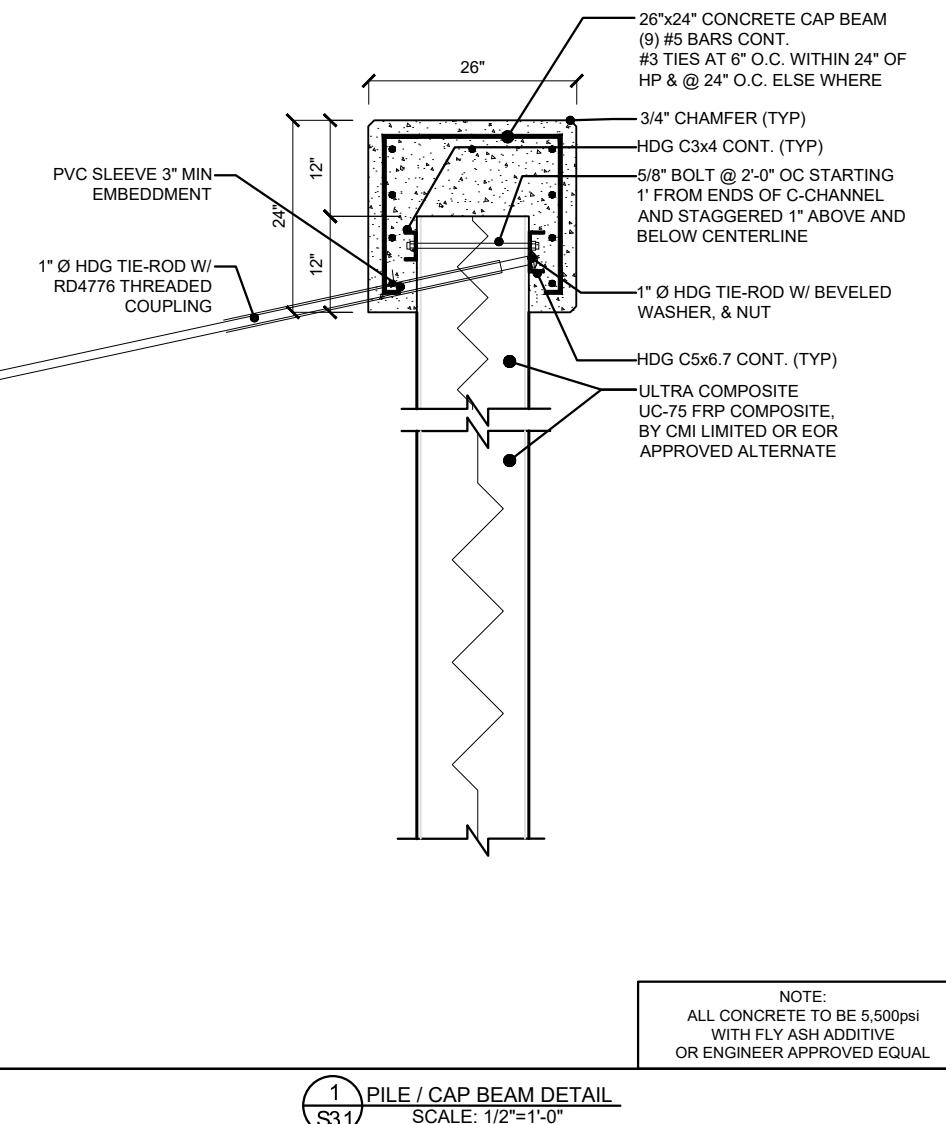
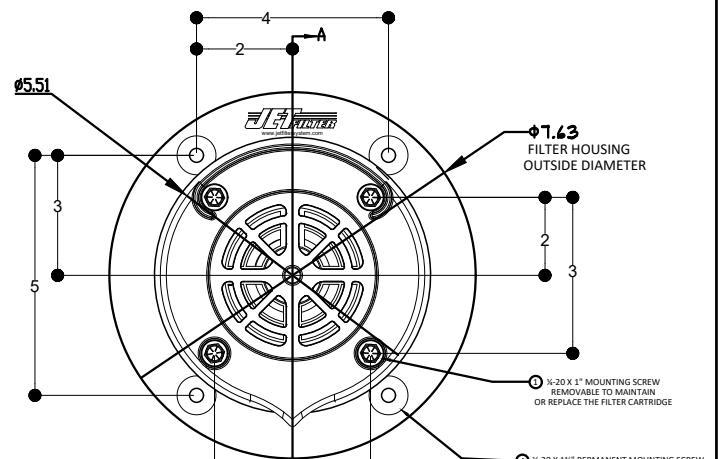
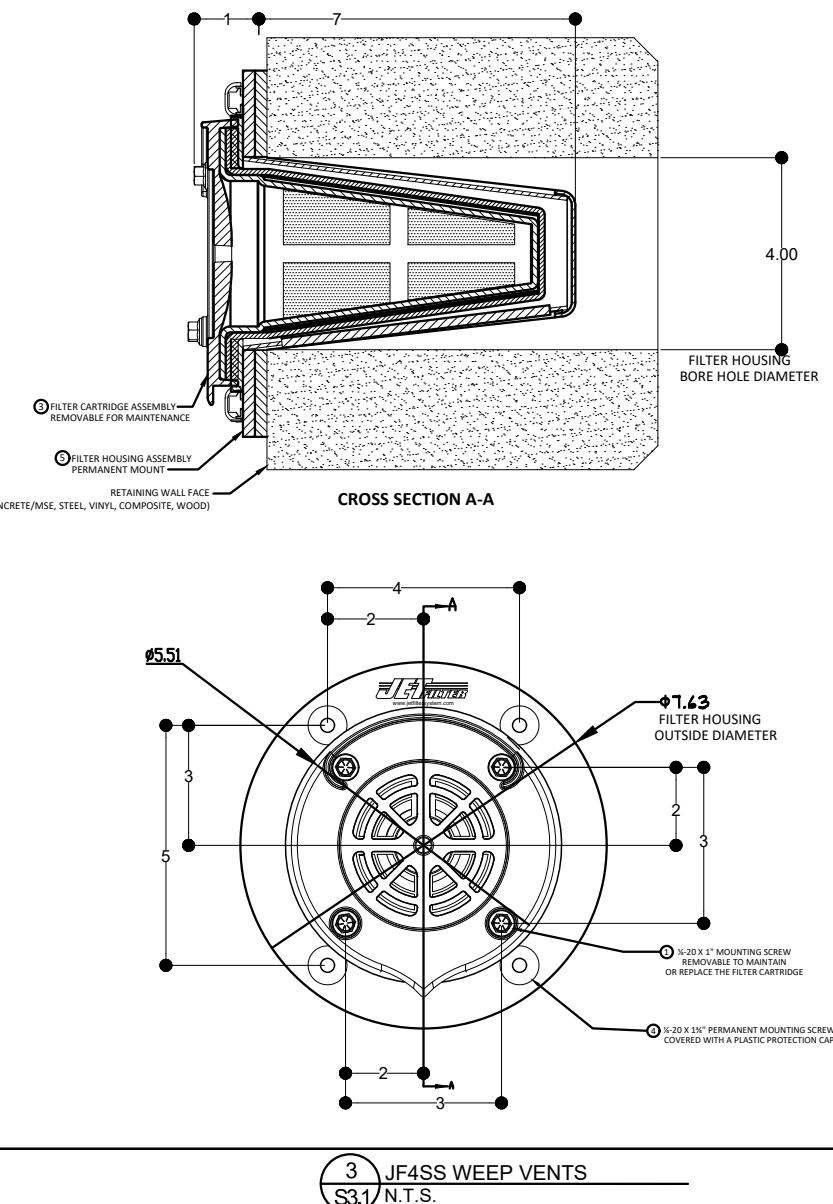


5 HELICAL PILE DETAIL  
S3.1 N.T.S.

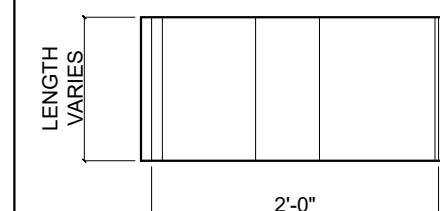
UC-75

ALLOWABLE MOMENT (M):	31,667 FT-LB/FT	140.85 KN-m/m
SECTION MODULUS (Z):	38.0 IN <sup>3</sup> /FT	2,043 cm <sup>3</sup> /m
MOMENT OF INERTIA (I):	266 IN <sup>4</sup> /FT	36,325 cm <sup>4</sup> /m
THICKNESS (t):	0.400/0.430 IN	10.2/10.9 mm
SECTION DEPTH:	14 IN	356 mm
SECTION WIDTH:	24 IN	610 mm
MATERIAL:	STRUCTURAL FRP COMPOSITE	
STANDARD COLORS:	CHARCOAL	
PROFILE/PATENTED FEATURES:	Z PROFILE	

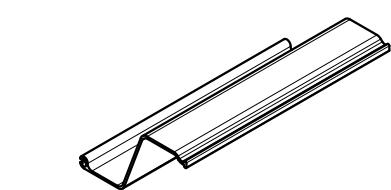
6 ULTRA COMPOSITE SHEET PILE  
S3.1 SPECIFICATIONS



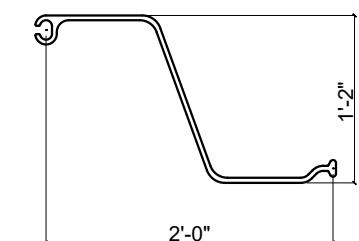
1 PILE / CAP BEAM DETAIL  
S3.1 SCALE: 1/2"-1'-0"



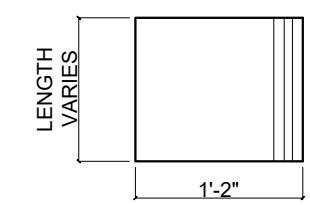
ESP EC 80.5 PROFILE VIEW



ESP EC 80.5 ISOMETRIC VIEW



ESP EC 80.5 PLAN VIEW



ESP EC 80.5 SECTION VIEW

2 ULTRA COMPOSITE PILE  
S3.1 N.T.S.

# GENERAL DESIGN AND CONSTRUCTION NOTES

## MATERIAL

### GENERAL DESIGN:

- ALL MATERIALS SHALL BE AS NOTED UNLESS LOCAL CODES PROVIDE A STRICTER GUIDELINE I.E. GREATER STRENGTH DURABILITY, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND AND COMPLY WITH THESE CODES.

### SHEET PILE:

- SHEET PILE MATERIAL SHALL BE CMI LIMITED CORP UC-75, ESP EC 80.5, OR EOR APPROVED ALTERNATE.

### DRAINS:

- OPEN END WEEP HOLE FILTER WITH ADAPTER, INSTALLED IMMEDIATELY ABOVE SCOUR ELEV. @ SPECIFIED SPACING.
- THE JET FILTER ASSEMBLY HOUSING SHOULD NOT BE REMOVED ONCE INSTALLED.
- WEEPS (JF4SS) TO ALLOW FOR EXCESSIVE HYDROSTATIC PRESSURE, FROM STORM WATER BUILD UP, TO RELEASE FROM BEHIND SEA WALL.

### STEEL:

- ALL C-CHANNELS, TIE-RODS, AND STEEL FASTENERS SHALL BE HOT DIP GALVANIZED PER ASTM A-153 WITH 2 OUNCES OF ZINC PER SQUARE FOOT.
- ALL REINFORCING BAR SHALL BE GRADE FRP, OR EOR APPROVED EQUAL.
- ALL TIEBACK ROD SHALL BE 60 KSI MINIMUM.

### CONCRETE:

- CONCRETE TO HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,500PSI.
- CONCRETE SHALL HAVE A MINIMUM 25% FLY ASH OR GBFS ADDED TO THE MIXTURE.
- CONCRETE MIX TO HAVE A MAX W/C RATIO OF 0.4.
- CONCRETE TO BE VIBRATED TO MINIMIZE AIR VOIDS.

### BACKFILL:

- BACKFILL MATERIAL SHALL BE COMPATIBLE W/THE BEACH SAND & APPROVED BY THE DEP.
- BACKFILL SHALL BE INSTALLED IN ±12" LIFTS AND COMPACTED TO 95% PROCTOR.
- IN GENERAL, BEACH-COMPATIBLE FILL MATERIAL WILL BE PREDOMINANTLY QUARTZ SAND OF A MEAN GRAIN SIZE DIAMETER BETWEEN 0.20MM AND 0.45MM, WITH A MOIST MUNSELL COLOR VALUE/CHROMA OF 7/1 OR LIGHTER AND A SIMILAR QUANTITY OF SHELL AS THE EXISTING BEACH.
- THE FILL MATERIAL MEETS THE SPECIFICATIONS/CRITERIA OF SUBSECTION 62B-33.005(7), F.A.C.

### ANCHORS:

- SHALL BE EOR APPROVED W/ SPECIFIED CAPACITY AND TIE BACK ROD DIAMETER.

### WOOD

- ALL LUMBER SHALL BE MARINE GRADE, OR EOR APPROVED ALTERNATE
- ALL LUMBER FASTENERS SHALL BE 316 STAINLESS STEEL, OR EOR APPROVED ALTERNATE

### DESIGN:

- DESIGN IS BASED ON SOIL PROPERTIES AS NOTED:
 

LAYER 1 (ELEV. +15.0 TO -4.5)	$\gamma = 115 \text{ PCF}$	$\gamma' = 57 \text{ PCF}$	$\phi = 32^\circ$	C=0 PSF
LAYER 2 (ELEV. +4.5 & BELOW) (DRIVEN CONDITIONS)	$\gamma = 125 \text{ PCF}$	$\gamma' = 62 \text{ PCF}$	$\phi = 40^\circ$	C=0 PSF
LAYER 1 (ELEV. +4.5 & BELOW) (JETTED CONDITIONS)	$\gamma = 120 \text{ PCF}$	$\gamma' = 60 \text{ PCF}$	$\phi = 34^\circ$	C=0 PSF
- IF ACTUAL SOIL OR SITE CONDITIONS DIFFER FROM THAT NOTED IN DRAWINGS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR A POSSIBLE REDESIGN.
- DESIGN DOES NOT CONSIDER GLOBAL (SLOPE) STABILITY. AT MINIMUM, GEOTECHNICAL ENGINEER SHALL CONFIRM THAT GLOBAL STABILITY IS NOT AN ISSUE. OTHERWISE, OWNER ASSUMES RISK FOR GLOBAL STABILITY.
- DESIGN DOES NOT ACCOUNT FOR PRESENCE OF UNDERGROUND SPRINGS, WELLS, OR EXCESSIVE WATER FROM SITE RUNOFF. IF THESE CONDITIONS EXIST THE ENGINEERS SHALL BE NOTIFIED.

## INSTALLATION

### GENERAL INSTALLATION:

- PRIOR TO INSTALLATION, CONTRACTOR SHALL EXAMINE/PROBE ALONG THE ALIGNMENT OF THE SHEET PILE (APPROX. EVERY 5') TO DETERMINE THE POTENTIAL OF ANY SOIL VARIATION OR OBSTRUCTIONS.

- INSTALLATION TO BE CONDUCTED ACCORDING TO ALL APPLICABLE OSHA AND LOCAL CODES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND AND COMPLY WITH THE SE CODES.

- PRIOR TO INSTALLATION CONTRACTOR SHALL EXAMINE SHEET PILE FOR ANY MANUFACTURING DEFECTS, OR DAMAGE DURING SHIPPING. ANY DEFECTIVE OR DAMAGED SHEET PILE SHALL BE DISCARDED AND REPLACED WITH NEW DEFECT & DAMAGE FREE MATERIAL. THIS SHALL BE THE RESPONSIBILITY OF THE SUPPLIER OR CONTRACTOR, AND NOT THE CLIENT OR EOR.

### SHEET PILE:

- CONTRACTOR SHOULD REVIEW SOIL BORINGS AND PLAN FOR DIFFICULT DRIVING CONDITIONS, JETTING AND TRENCHING IS ALLOWED FOR NEW SHEET PILE INSTALLATION. LAST 10% OF SHEET PILE DRIVE TO BE VIBRATED.
- SHEET PILE SHALL PENETRATE TO DEPTH SHOWN IN THE PLANS.
- AFTER DRIVING SHEET PILE, SAW PILING OFF AT A TRUE PLANE INDICATED ON THE PLANS. FINAL ELEVATIONS ARE TO BE WITHIN ONE (1) INCH OF ESTABLISHED ELEVATION.
- RETURN WALLS TO BE PROVIDED AT ENDS OF ALL BULKHEADS TO PROVIDE FLANKING PROTECTION.

### CONCRETE CAP:

- REFER TO ACI FOR PROPER CURING REQUIREMENTS.
- EXPANSION JOINTS ARE TO BE LOCATED AT NO GREATER THAN 50' INTERVALS
- ANCHOR RODS TO BE PROVIDED 1.5" ON SIDE OF EXPANSION JOINT.

### JET FILTER UNITS:

- CORE A TRUE DIAMETER HOLE IN THE SHEET PILLING/SEAWALL OR CONCRETE ABUTMENT ABOUT 4 INCHES BEHIND WALL EVERY 12 FEET ON CENTER, SLIGHTLY ABOVE MEAN WATER LINE IN COASTAL AREAS OR LOWEST ELEVATION. IF POSSIBLE CORE FURTHER INTO THE GROUND AND PACK FLOWABLE MATERIAL BEHIND WALL SUCH AS #57 STONE THEN SAND.
- INSERT THE JET FILTER ASSEMBLY INTO DRILLED HOLE ON WALL.
- PRE-DRILL THE MOUNTING HOLES BY USING:  
CONCRETE: PILOT HOLE BIT SIZE 3/16"  
STEEL SHEET PILING: PILOT HOLE BIT SIZE 7/32" OR 15/64"  
COMPOSITE / VINYL SHEET PILING: SELF-TAP
- ATTACH WITH BI-FLEX SS ANCHORS (SUPPLIED) THROUGH THE ASSEMBLY HOUSING HOLES INTO THE SHEET PILLING/SEAWALL, CONCRETE ABUTMENT A 3/8" SOCKET.

NOTE: BE SURE TO EPOXY/SEAL AROUND THE HOUSING IF ANY POSSIBLE OPENING TO THE CORE.

### MAINTENANCE:

- TO REMOVE OR REPLACE THE FILTER CARTRIDGE, SIMPLY UNSCREW THE (4) SCREWS SECURING THE FILTER CARTRIDGE AND GENTLY PULL OUT.
- ONCE FILTER IS REMOVED CLEAN WITH A SOFT BRUSH WITH A SOFT BRUSH WITH WATER RINSE OR REPLACE, IN REVERSE ORDER.

### MONITORING:

- SHEET PILE INSTALLATION SHALL BE SUPERVISED BY A THIRD PARTY MONITORING COMPANY LIKE UES, OR EOR APPROVED ALTERNATE, IN ORDER TO VERIFY EMBEDMENT DEPTH.
- VIBRATION MONITORING SERVICES SHALL BE PROVIDED BY UES, OR EOR APPROVED ALTERNATE, TO VERIFY THAT FDOT VIBRATION LIMITS ARE NOT EXCEEDED.
- TORQUE LOGS FOR HELICAL PILE INSTALLATION SHALL BE SUBMITTED TO THE EOR FOR REVIEW AND APPROVAL PRIOR TO CONTINUING WITH SEAWALL INSTALLATION.

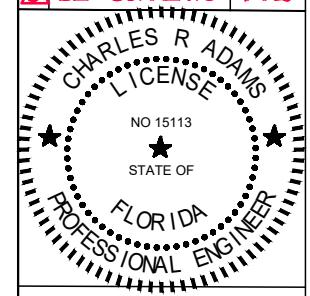
### LANDSCAPE:

- COMPLY WITH THE VOLUSIA COUNTY CHARTER, SECTION 50.351a.

# SEA DUNES SAILFISH

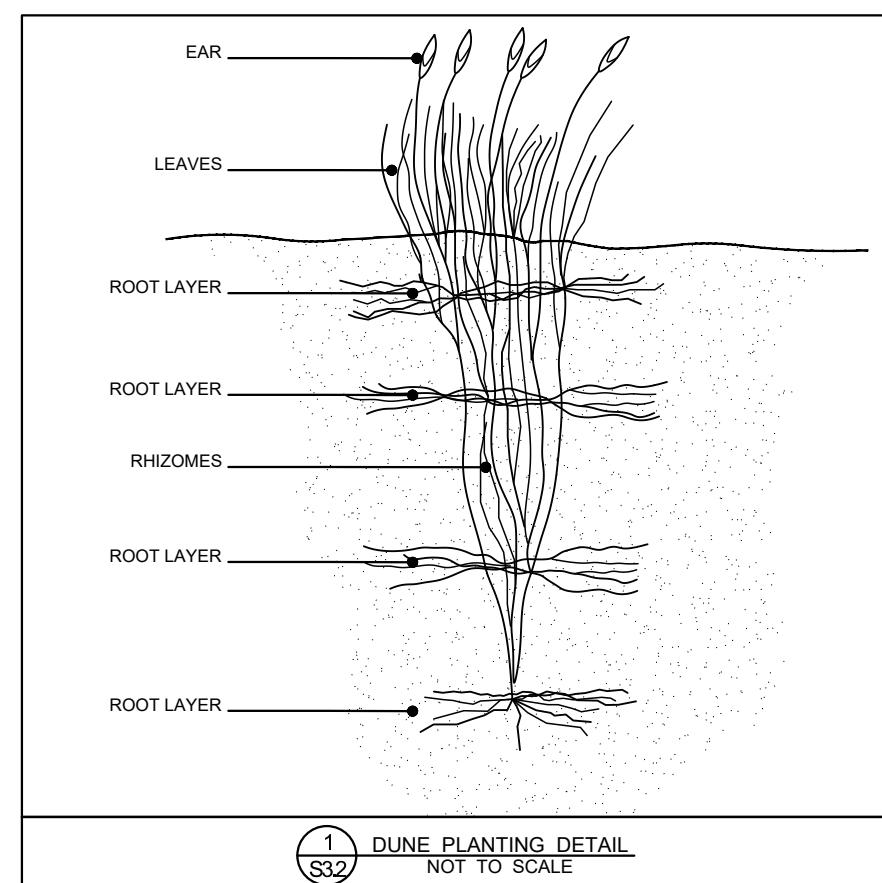
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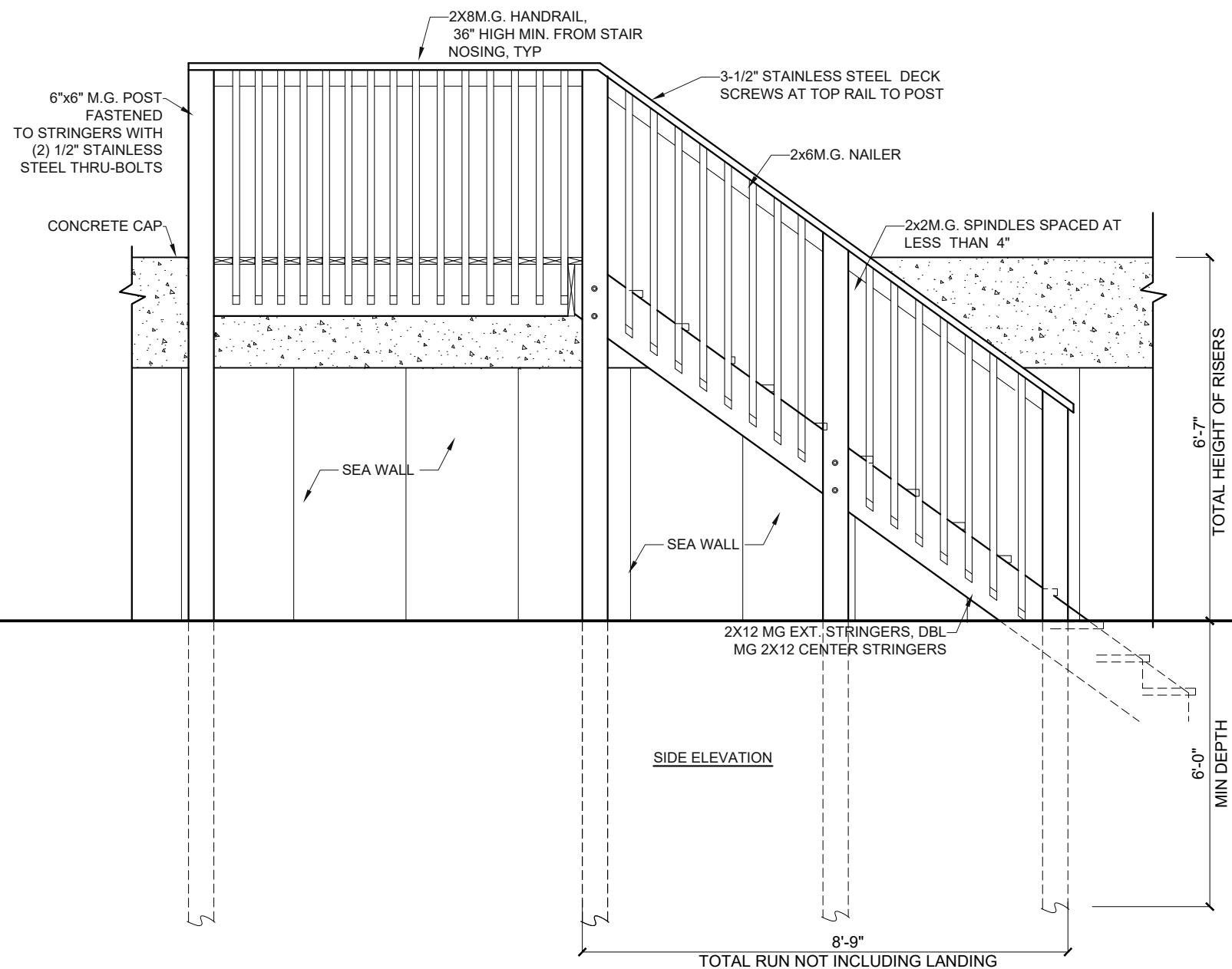
NO	REMARKS	DATE
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NOTES	
DRAWN BY EAA	SHEET 8 OF 11
CHECKED BY JAA	
SCALE AS NOTED	
DATE 7 MAR 2023	

S4.0





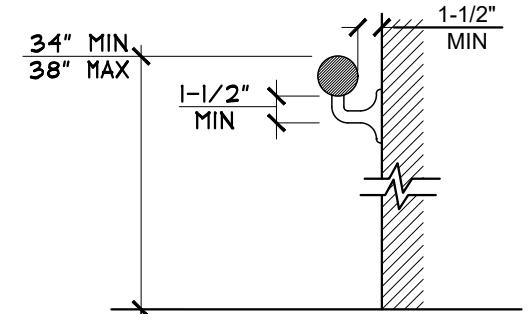
1 STAIR DETAILS  
S5.0 SCALE: 3/8"=1'-0"

**NOTES:**

1. HANDRAIL, SUPPORTS, & FASTENERS SHALL BE CAPABLE OF SUPPORTING A 250lb. POINT LOAD @ ANY POINT ON SYSTEM. TOP RAIL SHALL BE A MIN. HEIGHT OF 36".
2. HANDRAIL STYLE, SPINDLES OR RAILS, TO BE DETERMINED BY OWNER.

**STAIR DATA:**

TOTAL RISE .....±79"  
TOTAL RISERS .....11  
RISER DISTANCE .....±7-3/16"  
TOTAL TREADS .....11 @ 11-1/4"  
LANDINGS .....0  
TOTAL RUN .....±105"



HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" MINIMUM AND 2" MAXIMUM.  
HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4" MINIMUM AND 6-1/4" MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2-1/4" MAXIMUM.

1 RAIL DETAILS  
S5.0 SCALE: 1'=1'-0"

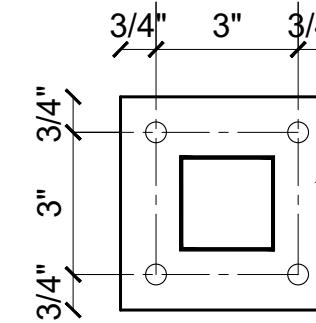
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		SHEET 9 OF 11

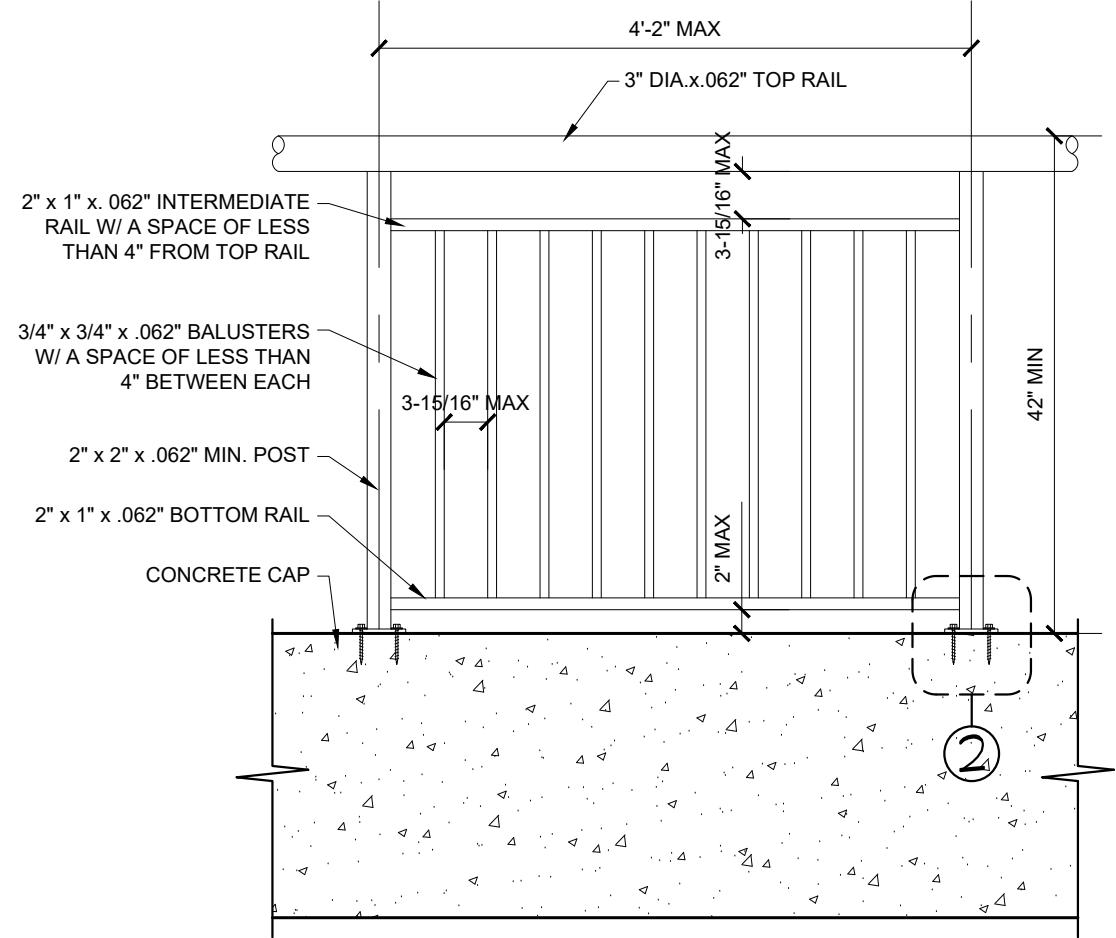
**S5.0**



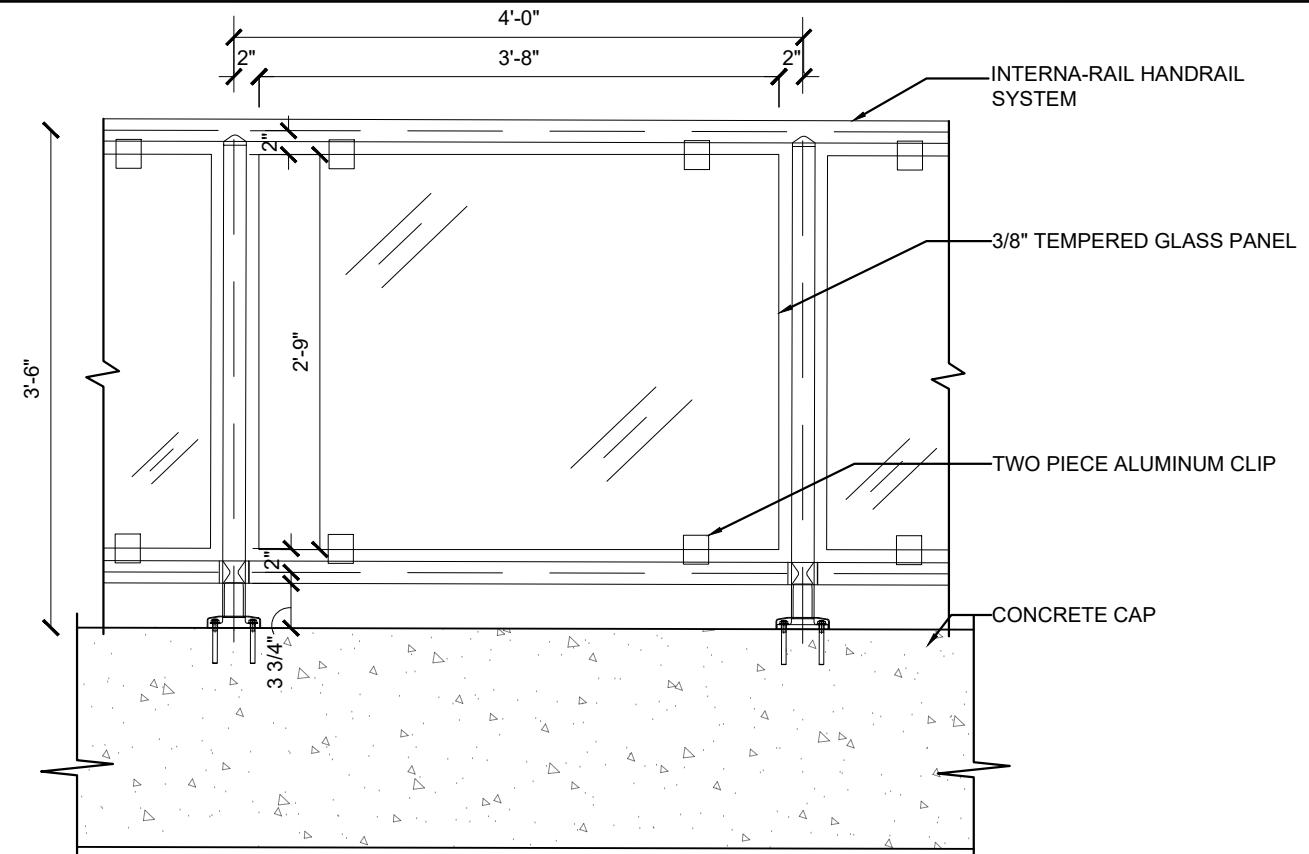


4-1/2" x 4-1/2" x 3/8" PLATE W/ (4) 7/16" Ø HOLES FOR (4) 3/8" SS THREADED RODS W/ 3-1/2" EMBEDMENT & HILTI HIT-HY 150 MAX ADHESIVE

**(2) BASE PLATE DETAIL**  
S5.2 SCALE: 3" = 1'-0"



**(1) GUARDRAIL DETAILS - SPINDLES**  
S5.2 SCALE: 3/4" = 1'-0"



**(3) GUARDRAIL DETAILS - GLASS**  
S5.2 SCALE: 3/4" = 1'-0"

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STATE OF FLORIDA  
PROFESSIONAL ENGINEER

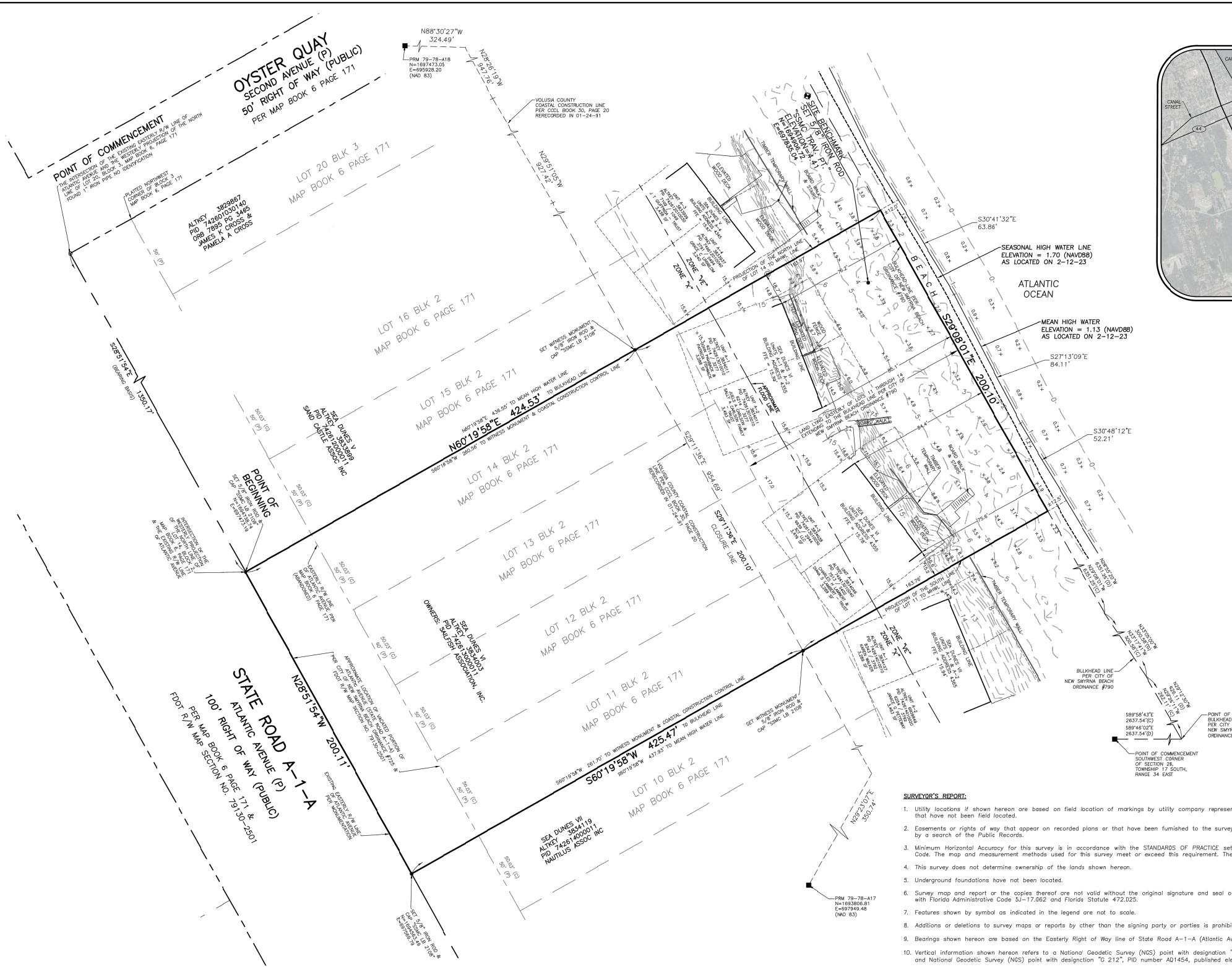
**GUARDRAIL DETAILS**

DRAWN BY EAA SHEET 11 OF 11  
CHECKED BY JAA  
SCALE AS NOTED  
DATE 7 MAR 2023

**S5.4**

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P:\68924 - FDEP - Sea Dunes Proposed Seawall Project\DWG 3D\68924007.dwg



DESCRIPTION:

SEA DUNES UNIT VI, Lots 11 through 14, Block 2, ATLANTIC HEIGHTS SUBDIVISION, according to the map or plat thereof, as recorded in Map Book 6, Page 171, of the Public Records of Volusia County, Florida; together with a portion of Atlantic Avenue now mapped lying adjacent to and Westerly of said Lots 11 through 14, extending to the Bulkhead line (per City of New Smyrna Beach Ordinance #725, dated 1966) and Lands lying Easterly of said Lots 11 through 14, extending to the following:

COMMENCE at the intersection of the existing Easterly right of way line of Atlantic Avenue and the Westerly Projection of the North line of Lot 20, Block 3, ATLANTIC HEIGHTS SUBDIVISION, according to the map or plat thereof, as recorded in Map Book 6, Page 171, of the Public Records of Volusia County, Florida; thence South 28°51'54" East, a distance of 1350.17 feet along the existing Easterly right of way line of Atlantic Avenue to the intersection of the Westerly Projection of the North line of Lot 14, Block 2, said intersection being the POINT OF BEGINNING; then North 60°19'58" East, a distance of 424.53 feet along said North line of Lot 14 and the projection thereof to the Bullockhead line; thence South 29°08'01" East, a distance of 200.10 feet along said Bullockhead line to the Easterly Projection of South line of Lot 11; thence South 60°19'58" West, a distance of 425.47 feet along the South line of Lot 11 and the projection thereof to the aforesaid existing Easterly right of way line of Atlantic Avenue; thence North 28°51'54" West, a distance of 200.11 feet along said Easterly right of way to the POINT OF BEGINNING.

Containing 1.95 acres, more or less.

disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.

**NOTICE OF LIABILITY:**

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.



LEGEND & ABBREVIATIONS:

= WOOD FENCE	ALTKEY	= ALTERNATE KEY NUMBER
= VINYL FENCE	ASSOC	= ASSOCIATION
= CONCRETE MONUMENT	CCCL	= COASTAL CONSTRUCTION CONTROL LINE
= IRON PIPE	FDEP	= FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
= IRON ROD	FDOT	= FLORIDA DEPARTMENT OF TRANSPORTATION
= NAIL W/DISC	FFE	= FINISH FLOOR ELEVATION
= BENCH	PID	= PARCEL IDENTIFICATION NUMBER
= CROSS CUT	CM	= CONCRETE MONUMENT
= CLEAN OUT	ID	= IDENTIFICATION
	(P)	= PLAT
= ELECTRIC FIXTURE	(D)	= DEED
= FLAGPOLE	BLK	= BLOCK
= IRON ROD	ORB	= OFFICIAL RECORDS BOOK
= IRON PIPE	MB	= MAP BOOK
= NAIL W/DISC	PB	= PLAT BOOK
= LIGHT POLE	PGS(S)	= PAGE(S)
= PALM	NO.	= NUMBER
= POST/BOLLARD	NAD83	= NORTH AMERICAN DATUM
= RAILROAD SPIKE	NAVD88	= NORTH AMERICAN VERTICAL DATUM 1988
= HANDRAIL	LB	= LICENSED BUSINESS
	MHWL	= MEAN HIGH WATER LINE
	SF	= SQUARE FEET
	PSM	= PROFESSIONAL SURVEYOR AND MAPPER
	PRM	= PERMANENT REFERENCE MONUMENT
	R/W	= RIGHT OF WAY
	TRAV.PT.	= TRAVERSE POINT
	SSMC	= SOUTHEASTERN SURVEYING & MAPPING CORPORATION

# SEA DUNES SAILFISH

## STRUCTURAL PLANS FOR A NEW SEAWALL AT THE

4355 SOUTH ATLANTIC AVENUE  
NEW SMYRNA BEACH, FL 32169



**STRUCTURAL ENGINEERS**

100 Street - New Smyrna Beach, FL 32168 - 386.426.5558

A photograph showing a long, low concrete seawall running along a sandy beach. The ocean waves are crashing against the wall, creating white foam. In the background, there are some beach umbrellas and chairs under a clear blue sky.

<b>New Smyrna Beach, Florida</b>	
Field Date: January 03, 2023	Drawn By: JMC
<b>STRUCTURE</b>	
<b>SEA</b>	
NO	REMARKS
	<b>EOR REVISIONS</b> <span style="color: red;">3/30/23</span>
	<b>DEP COMMENTS</b> <span style="color: red;">4/1/23</span>
<p>CHARLES R. ADAMS LICENSE NO 15113 STATE OF FLORIDA PROFESSIONAL ENGINEER</p>	
<b>SURVEY</b>	
NUMBER <b>4007</b>	DRAWN BY <b>EAA</b>
HEET NUMBER <b>1</b>	CHECKED BY <b>JAA</b>
SCALE <b>AS NOTED</b>	SHEET 11 OF 11
DATE	<b>S6.0</b>