

ADA DUNE CROSSOVER REPLACEMENT

**CITY OF COCOA BEACH
299 FLAGLER LANE COCOA BEACH, FL 32931
PERMIT SET
10/01/25**

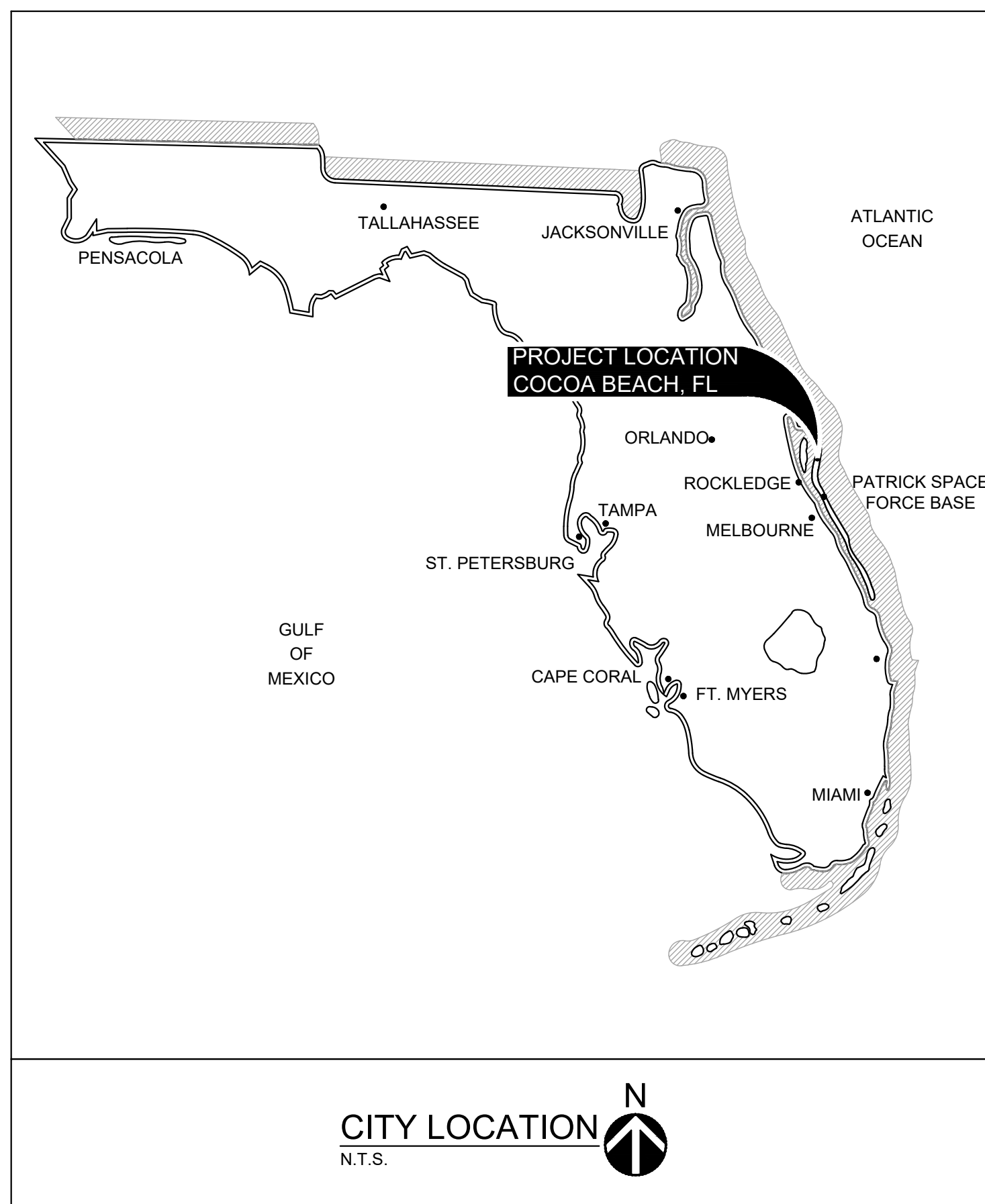
REV	DESCRIPTION	DATE

ADA DUNE CROSSOVER REPLACEMENT
CITY OF COCOA BEACH
299 FLAGLER LANE COCOA BEACH, FL 32931
COVER SHEET AND INDEX

PERMIT SET
NOT FOR CONSTRUCTION

CODE # 160221_002
DATE 10/01/25
DRAWN J. JACOBS
DESIGN K. FINDLATER
CHECK M. CHARMBURY
FILE G-001.dwg

G-001
SHEET 1 OF 6



DRAWING INDEX			
REV	INDEX	DRAWING	DESCRIPTION
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STRUCTURAL ABBREVIATION LIST

(SOME MAY NOT BE USED)

A.	ANCHOR	K.	KIP
AB	ANCHOR BOLTS	KO	KNOCK OUT
ACI	AMERICAN CONCRETE INSTITUTE	KWY	KEY WAY
ADD'L	ADDITIONAL		
AFF	ABOVE FINISH FLOOR	L.	LENGTH
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LDG	LANDING
AISI	AMERICAN IRON AND STEEL INSTITUTE	LONG	LONGITUDE
AL	ALUMINUM	LP	LOW POINT
ALT	ALTERNATE/ALTERNATIVE	LLH	LONG LEG HORIZONTAL
APP'D	APPROVED	LLV	LONG LEG VERTICAL
ARCH	ARCHITECTURAL, ARCHITECT	LWIC	LIGHT WEIGHT INSULATING CONCRETE
ASPH	ASPHALT		
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	M.	MANUF
AWS	AMERICAN WELDING SOCIETY	MAT	MATERIAL
		MAX	MAXIMUM
		MB	MASONRY BEAM
B.M.	BENCH MARK	MCJ	MASONRY CONTROL JOINT
B/	BASE PLATE	MECH	MECHANICAL
BIT	BOTTOM OF BITUMINOUS	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLK	BLOCK	MJ	MASONRY JOINT
BM	BEAM	MO	MASONRY OPENING
BOT	BOTTOM	MOM	MOMENT
BRG	BEARING	MTL	METAL
BU	BUILT UP	N.	NOT IN CONTRACT
		NS	NEAR SIDE
		N.T.S.	NOT TO SCALE
C/C	CENTER TO CENTER	O.	ON CENTER
CB	CONCRETE BEAM	OC	CONCRETE ENCASED
CC	CONCRETE COLUMN	OD	OUTSIDE DIAMETER
CE	CONCRETE ENCASED	OF	OUTSIDE FACE
CF	CUBIC FOOT/FEET	OPNG	OPENING
C	CHANNEL	ORIENT	ORIENTATION
CHK	CHECKERED		
CIP	CAST IRON	P.	PRE CAST CONC
CJ	CONCRETE IN PLACE	PAR	PARALLEL
CL	CONSTRUCTION JOINT	PEN	PENETRATION
CL	CLEAR/CLEARANCE	PENN	PENETRATION
CL	CLEAR/CLEARANCE	PERIM	PERIMETER
CL	CLEAR/CLEARANCE	PLF	POUNDS PER LINEAR FOOT
CL	CLEAR/CLEARANCE	PLY	PLYWOOD
CL	CLEAR/CLEARANCE	PREFAB	PREFABRICATED
CL	CLEAR/CLEARANCE	PSF	POUNDS PER SQUARE FOOT
CL	CLEAR/CLEARANCE	PSI	POUNDS PER SQUARE INCH
CL	CLEAR/CLEARANCE	PT	PRESSURE TREATED
CL	CLEAR/CLEARANCE	Q.	QUANTITY
CL	CLEAR/CLEARANCE	R.	ROOF ACCESS
CL	CLEAR/CLEARANCE	R/W	REINFORCED WITH
CL	CLEAR/CLEARANCE	RCP	REINFORCED CONCRETE PIPE
CL	CLEAR/CLEARANCE	RD	ROOF DRAIN
CL	CLEAR/CLEARANCE	REF	REFERENCE
CL	CLEAR/CLEARANCE	REINF	REINFORCING
CL	CLEAR/CLEARANCE	REQ'D	REQUIRED
CL	CLEAR/CLEARANCE	RM	ROOM
CL	CLEAR/CLEARANCE	S.	SCHEDULE
CL	CLEAR/CLEARANCE	SCH	SCHEDULE
CL	CLEAR/CLEARANCE	SF	SQUARE FEET
CL	CLEAR/CLEARANCE	SIM	SIMILAR
CL	CLEAR/CLEARANCE	SJ	SAW JOINT
CL	CLEAR/CLEARANCE	SP	SPACING
CL	CLEAR/CLEARANCE	SPA	SPACE(S)
CL	CLEAR/CLEARANCE	SPEC	SPECIFICATION
CL	CLEAR/CLEARANCE	SPECS	SPECIFICATIONS
CL	CLEAR/CLEARANCE	SQ	SQUARE
CL	CLEAR/CLEARANCE	SS	STAINLESS STEEL
CL	CLEAR/CLEARANCE	STD	STANDARD
CL	CLEAR/CLEARANCE	STIRR	STIRRUPS
CL	CLEAR/CLEARANCE	STL	STEEL
CL	CLEAR/CLEARANCE	SYM	SYMMETRICAL
CL	CLEAR/CLEARANCE	T.	TOP & BOTTOM
CL	CLEAR/CLEARANCE	T/	TOP OF
CL	CLEAR/CLEARANCE	T/C	TOP OF CONCRETE
CL	CLEAR/CLEARANCE	T/S	TOP STEEL
CL	CLEAR/CLEARANCE	TB	TIE BEAM
CL	CLEAR/CLEARANCE	TEMP	TEMPORARY
CL	CLEAR/CLEARANCE	TENS	TENSION
CL	CLEAR/CLEARANCE	THD	THREAD(ED)
CL	CLEAR/CLEARANCE	THK	THICK
CL	CLEAR/CLEARANCE	TJ	TIE JOIST
CL	CLEAR/CLEARANCE	TOL	TOLERANCE
CL	CLEAR/CLEARANCE	TOT	TOTAL
CL	CLEAR/CLEARANCE	TRANS	TRANSVERSE
CL	CLEAR/CLEARANCE	TS	THICKENED SLAB
CL	CLEAR/CLEARANCE	TYP	TYPICAL
CL	CLEAR/CLEARANCE	U.	UNLESS OTHERWISE NOTED
CL	CLEAR/CLEARANCE	UIN	UNDERSIDE
CL	CLEAR/CLEARANCE	V.	VERTICAL
CL	CLEAR/CLEARANCE	VOL	VOLUME
CL	CLEAR/CLEARANCE	W.	WIDE
CL	CLEAR/CLEARANCE	W/	WITH
CL	CLEAR/CLEARANCE	W/O	WITHOUT
CL	CLEAR/CLEARANCE	WD	WOOD
CL	CLEAR/CLEARANCE	WF	WIDE FLANGE
CL	CLEAR/CLEARANCE	WH	WEEP HOLE
CL	CLEAR/CLEARANCE	WP	WORKING POINT
CL	CLEAR/CLEARANCE	WT	WEIGHT
CL	CLEAR/CLEARANCE	WWR	WELDED WIRE REINFORCING
CL	CLEAR/CLEARANCE	W FTG	WALL FOOTING
CL	CLEAR/CLEARANCE	X.	XFMR
CL	CLEAR/CLEARANCE	TRANS	TRANSFORMER
CL	CLEAR/CLEARANCE	Y.	WYE
CL	CLEAR/CLEARANCE	Z.	ZONE

TIMBER POST NOTES:

- TIMBER POST: SOUTHERN PINE, PRESSURE TREATED (0.4 ALKALINE COPPER QUATERNARY (ACQ)) AND SHALL CONFORM TO ASTM D 25, UNUSED, CLEAN PEEL, UNIFORMLY TAPERED, ONE PIECE FROM BUTT TO TIP WITH THE FOLLOWING MINIMUM ALLOWABLE STRESSES:

F _c ⊥	450 PSI
F _b	1,950 PSI
F _v	160 PSI
F _c	1,250 PSI
E	1,500,000 PSI
- POST, MINIMUM TIP ELEVATIONS AS INDICATED ON PLANS.

TIMBER NOTES:

- ALL TIMBER SHALL BE SOUTHERN YELLOW PINE, PRESSURE TREATED, GRADES AS INDICATED, WITH THE FOLLOWING MINIMUM ALLOWABLE STRESSES AND SHALL BEAR QUALITY MARK STAMP.

SIZE	F _b (PSI)	F _t (PSI)	F _c (PSI)	F _c ⊥ (PSI)	E (PSI)	GRADE
2x4	1500	1000	1650	565	1,600,000	NO.1
2x6	1350	875	1550	565	1,600,000	NO.1
2X8	1250	850	1500	565	1,600,000	NO.1
2X12	750	450	1250	565	1,400,000	NO.2

- ALL TIMBER FRAMING SHALL BE AS INDICATED IN DRAWINGS, SECTIONS, DETAILS AND NOTES (UON). ALL STRINGERS SHALL HAVE TWO SPAN CONDITION.
- ALL FASTENERS AND HARDWARE (BOLTS, SCREWS, WASHERS, AND NAILS) SHALL BE 316 STAINLESS STEEL (UON).
- SEE PLANS, SECTIONS, AND DETAILS FOR DECKING REQUIREMENTS.
- ALL TIMBER SHALL BE PRESSURE TREATED WITH WATER BORNE PRESERVATIVES AS FOLLOWS:
 - DECKING - 0.15 COPPER AZOLE (CA-C)
 - STRINGERS AND JOISTS - 0.15 COPPER AZOLE (CA-C)
 - BRACING - 0.15 COPPER AZOLE (CA-C)
 - POSTS - 2.5 CHROMATED COPPER ARSENATE (CCA)
- ALL CONNECTIONS SHALL BE FASTENED WITH A MINIMUM (2) SIMPSON STRONG-DRIVE #10X3 (10300WP) DWP WOOD SS SCREWS UNLESS OTHERWISE NOTED.

CODES AND SPECIFICATIONS

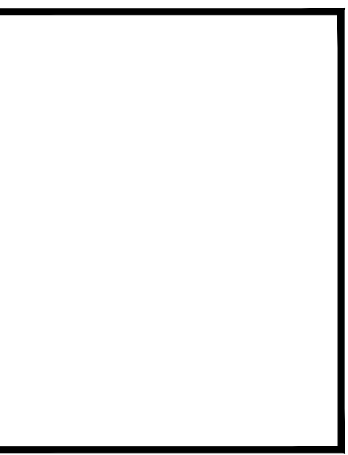
- GENERAL BUILDING CODE:
 - MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-22)
 - STRUCTURAL WORK SHALL BE IN ACCORDANCE WITH FLORIDA BUILDING CODE 2023 EDITION.
- RAMPS:
 - 2010 ADA (AMERICANS WITH DISABILITIES ACT) STANDARDS FOR ACCESSIBLE DESIGN

GENERAL NOTES

- DESIGN LOADS ARE BASED ON INTERNATIONAL BUILDING CODE (IBC) 2016. WIND LOAD REFERENCE - ASCE, 7-16
(A) ULTIMATE WIND SPEED, V_{ult} = 137 MPH (3-SEC GUST)
NOMINAL WIND SPEED, V_{asd} = 106 MPH (3-SEC GUST)
RISK CATEGORY: I
EXPOSURE: D
ENCLOSURE: OPEN
(B) SEISMIC PARAMETERS:

a. RISK CATEGORY:	I
b. SEISMIC SITE CLASS:	D
c. MAPPED RESPONSE (SS):	0.078
d. MAPPED RESPONSE (S1):	0.035
e. DESIGN CATEGORY (SDC):	A
f. SEISMIC IMPORTANCE:	1.25
g. SITE COEFFICIENT (F _a):	1.6
h. SITE COEFFICIENT (F _v):	2.1
i. DESIGN RESPONSE (SMS):	0.11
j. DESIGN RESPONSE (SM1):	0.074
k. DESIGN RESPONSE (SDS):	0.07
l. DESIGN RESPONSE (SD1):	0.049
m. RESPONSE MOD FACTOR, R:	3
n. APP PERIOD:	0.560

NOTE: THE SEISMIC ANALYSIS PROCEDURE USED ON THIS STRUCTURE IS THE EQUIVALENT LATERAL FORCE PROCEDURE
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH PROJECT DRAWINGS AND SPECIFICATIONS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIALS SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONNECTIONS AND ANCHOR BOLT LOCATIONS FROM CERTIFIED DRAWINGS AND FABRICATOR'S ANCHOR BOLT SETTING PLANS.
- DETAILS LABELED "TYPICAL DETAILS" ON THE DRAWINGS SHALL APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. THE APPLICABILITY OF THE DETAIL TO ITS LOCATION ON THE PLANS CAN BE DETERMINED BY THE TITLE OF THE DETAIL. SUCH DETAILS SHALL APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS SHALL BE DETERMINED BY THE CONTRACTING OFFICE.
- THE CONTRACTOR SHALL WORK STRUCTURAL DRAWINGS AND APPROVED FDEP PERMIT DRAWINGS TO LOCATE ANY ADJACENT FEATURES, SETTINGS, GRADES, ETC. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- THE STRUCTURAL INTEGRITY OF THE COMPLETED STRUCTURE DEPENDS UPON THE INTERACTION OF VARIOUS CONNECTED COMPONENTS. PROVIDE ADEQUATE BRACING, SHORING, AND OTHER TEMPORARY SUPPORTS AS REQUIRED TO SAFELY COMPLETE THE WORK.
- THE GENERAL CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH OTHER DISCIPLINES AND REPORT ANY DISCREPANCIES BETWEEN EACH SET OF DRAWINGS AND WITHIN EACH SET OF DRAWINGS TO THE OWNER'S REPRESENTATIVE PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS. WHERE CONFLICTS EXIST AMONG VARIOUS PARTS OF THE STRUCTURAL CONTRACT DOCUMENTS, STRUCTURAL DRAWINGS, GENERAL NOTES AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
- THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE, AND SAFETY. THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS AND USE OF CAD FILES BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFY HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.



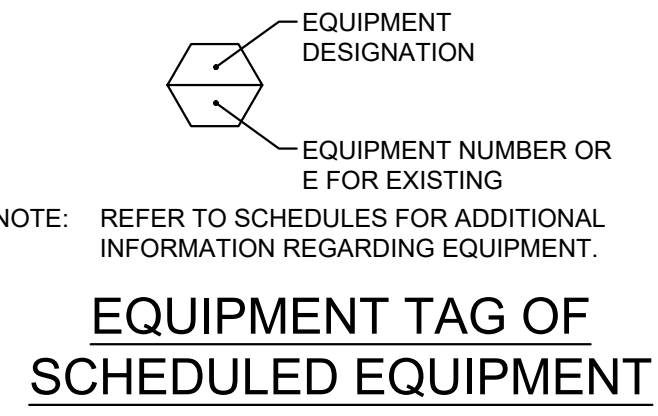
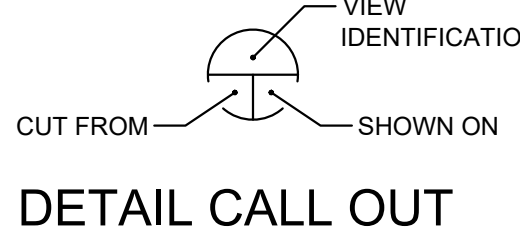
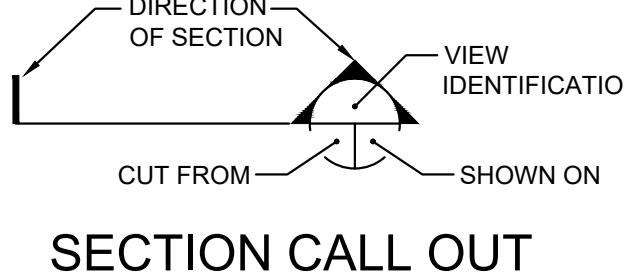
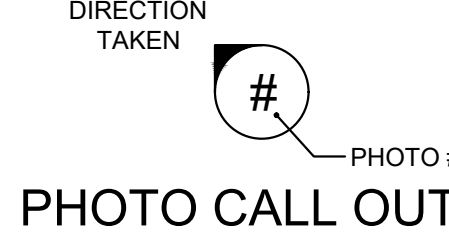
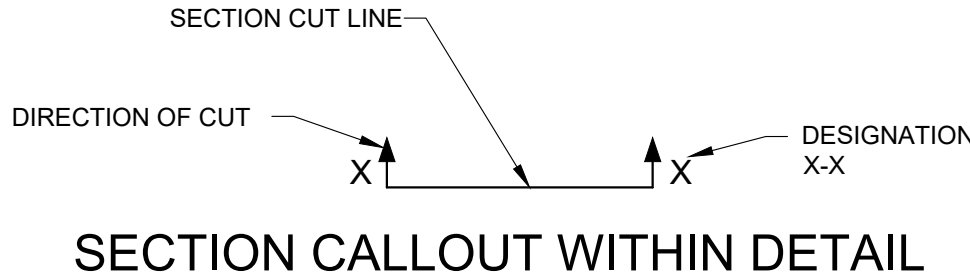
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ADA DUNE CROSSOVER REPLACEMENT
CITY OF COCOA BEACH
299 FLAGLER LANE COCOA BEACH, FL 32931
STRUCTURAL ABBREVIATIONS, LEGENDS AND NOTES

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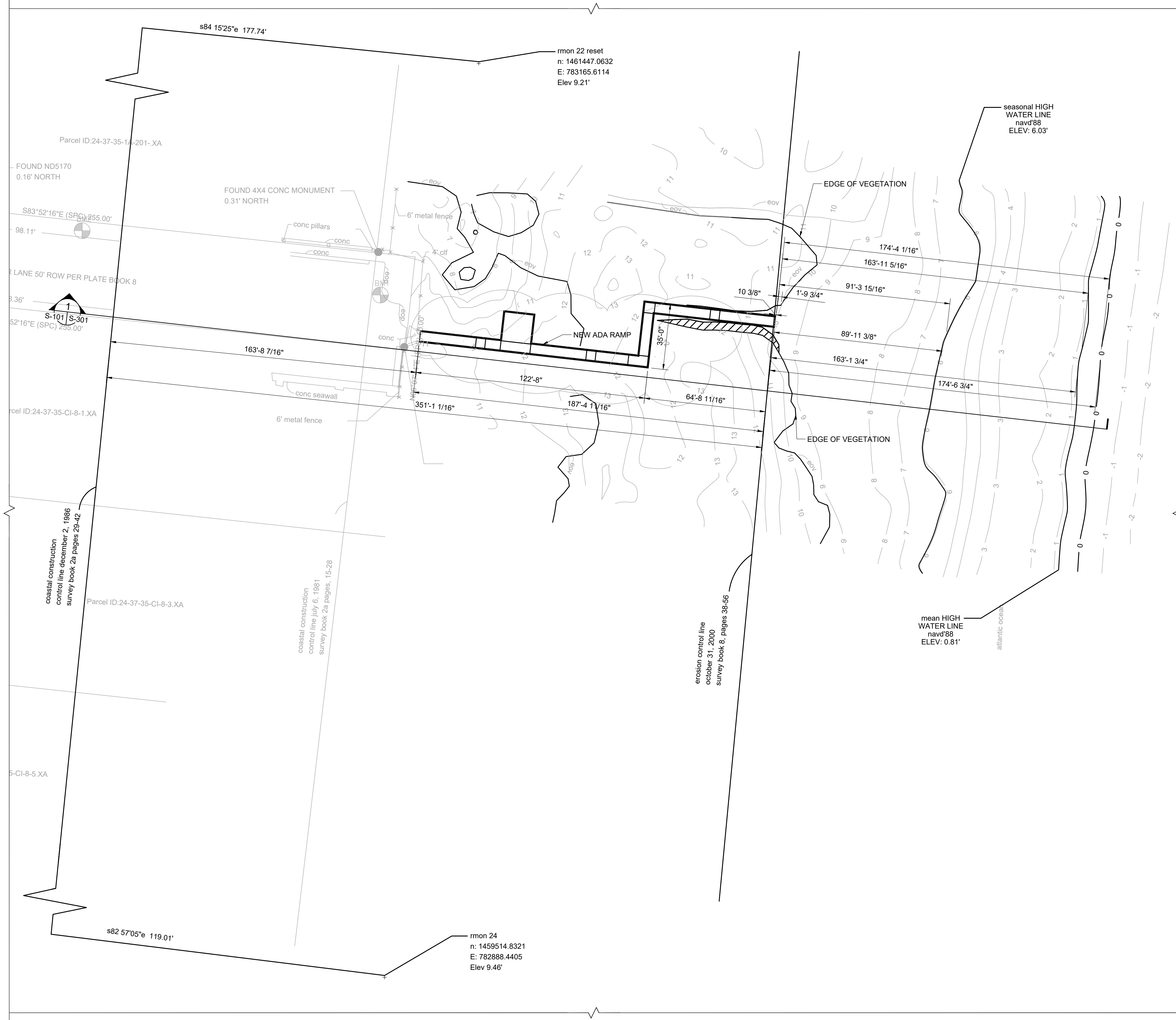
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S-001
SHEET 2 OF 6



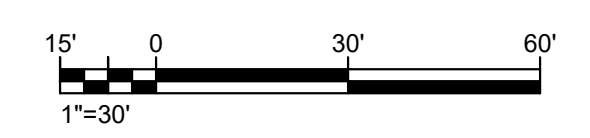
GENERAL NOTE(S):

1. ALL ADA LANDINGS ARE LEVEL.
2. ALL ADA RAMPS ARE AT 1/12 (FT/FT) DOWN SLOPE.
3. ALL CONTOUR LINE ELEVATIONS ARE EXISTING ELEVATIONS (AT TIME OF PREVIOUS SURVEY). CONTRACTOR SHALL PERFORM NEW SURVEY PRIOR TO THE START OF WORK AND IF GRADE HAS CHANGED FROM PREVIOUSLY PERFORMED SURVEY ON THIS DRAWING, CONTRACTOR TO CONTACT THE EOR FOR NEW ADA RAMP TERMINUS.
4. CONTRACTOR SHALL CONSTRUCT DUNE CROSSOVER AS SHOWN, INCLUDING HANDRAILS. THERE SHALL BE A PORTION OF RAMP THAT WILL BE BURIED BELOW THE FINISHED GRADE. CONTRACTOR SHALL PERFORM NEW SURVEY PRIOR TO THE START OF WORK AND IF GRADE HAS CHANGED FROM PREVIOUSLY PERFORMED SURVEY ON THIS DRAWING, CONTRACTOR TO CONTACT THE EOR FOR NEW ADA RAMP TERMINUS. THERE WILL BE NO EARTH-MOVING OPERATION INVOLVED IN THIS PROJECT, EXCEPT FOR THE TEMPORARY DISPLACEMENT OF SAND DURING THE INSTALLATION OF THE PILES. PILES WILL BE INSTALLED USING PRE-DRILLED BOREHOLE. ANY REMNANT FILL SHALL BE HAND GRADED TO MATCH THE SURROUNDING GRADE. THROUGHOUT THE CONSTRUCTION PHASE, IT IS STRICTLY MANDATED THAT NO FILL MATERIAL SHALL BE TRANSPORTED OFF OR BROUGHT ONTO THE SITE SEAWARD OF THE CCCL.



FLAGLER LANE ADA RAMP SITE PLAN - NEW
 1" = 30'

DUNE PLANTING SCHEDULE												
PLANTING CATEGORY	SCIENTIFIC NAME	NAME	TOTAL AREA TO BE PLANTED (SQ. FT.)	MIN. HEIGHT	MIN. O.C. SPACING	MINIMUM % OF TOTAL AREA	MAXIMUM % OF TOTAL AREA	PROPOSED % OF TOTAL AREA (MUST EQUAL OR EXCEED 100%)	AREA TO BE PLANTED (SQ. FT.)	SPACING REQUIREMENTS (SQ. FT.)	TOTAL # OF PLANTS REQUIRED	
SHRUBS	ERYTHRINA HERBACEA	CORAL BEAN	244.5	6"	18"	x	10	20	10%	24	30	1
GROUNDCOVERS	UNOLA PANICULATA	SEA OATS		6"	4"	x	40	60	60%	147	10	15
VINES	CANAVALIA ROSEA	BEACH BEAN		4"	11"	x	10	20	10%	24	10	2
WILDFLOWERS	HELIANTHUS DEBILIS	DUNE SUNFLOWER		4"	7"	x	20	40	20%	49	10	5



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PUBLIC BEACH ACCESS - SITE PLAN

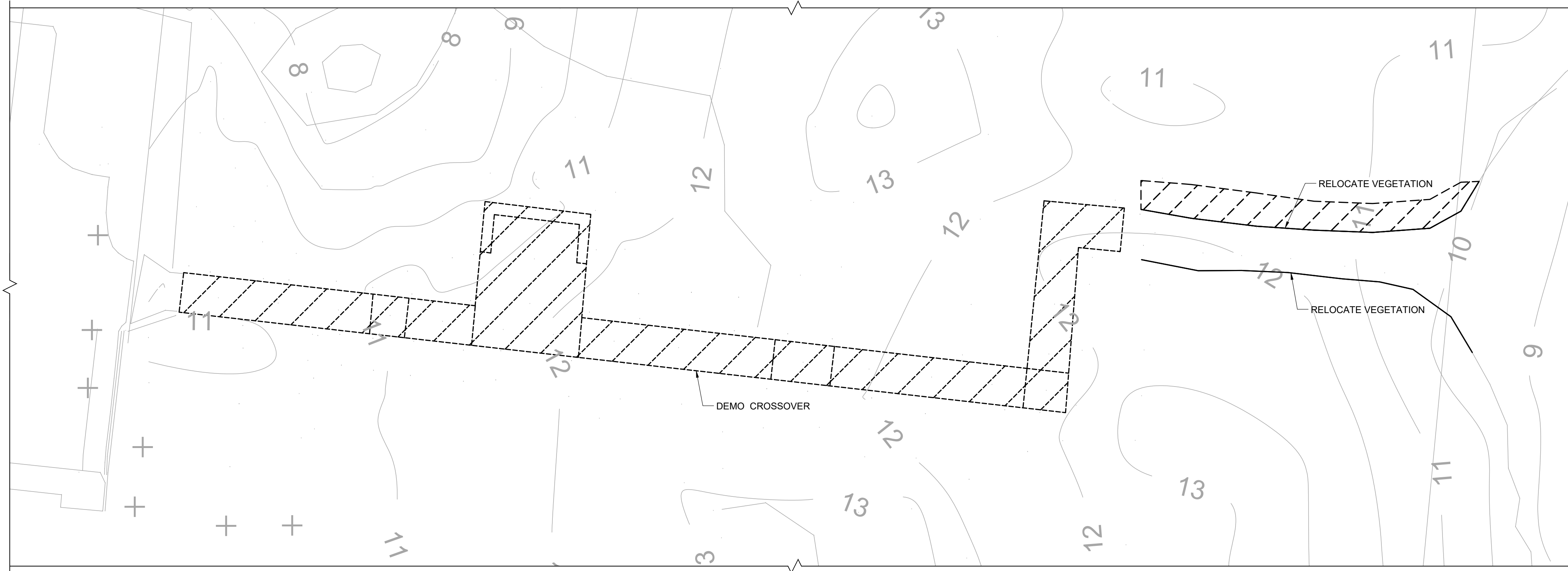
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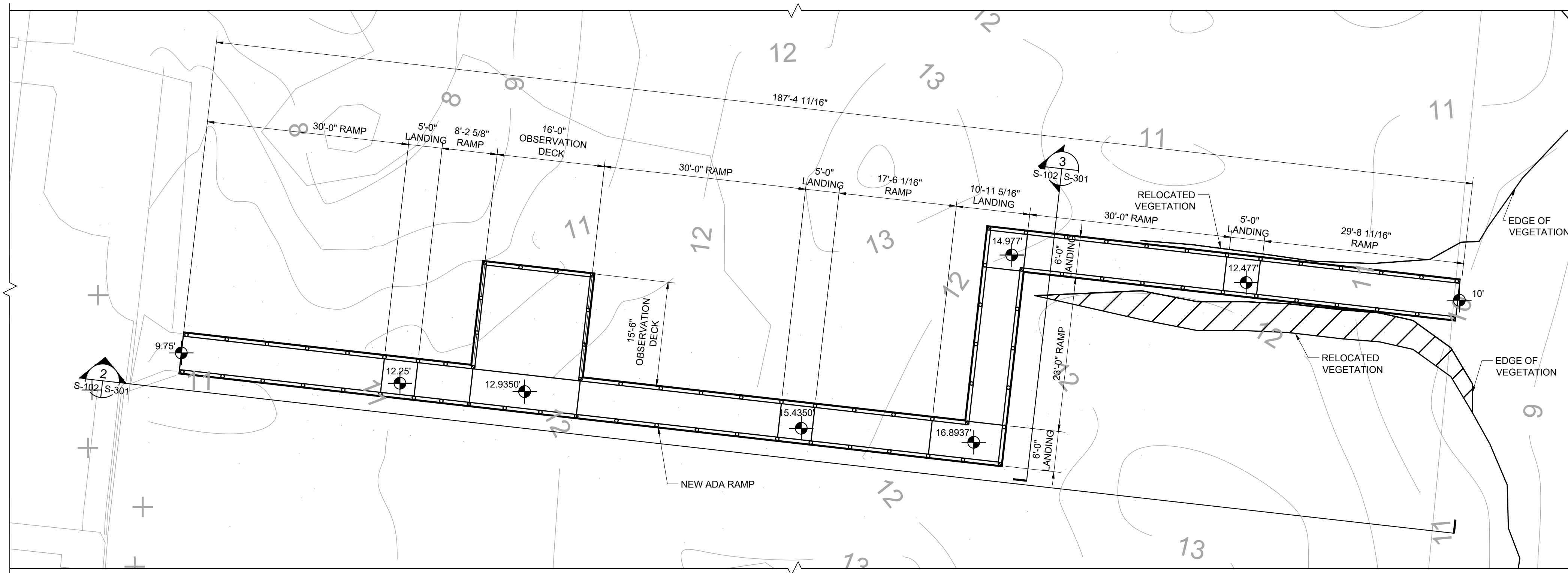
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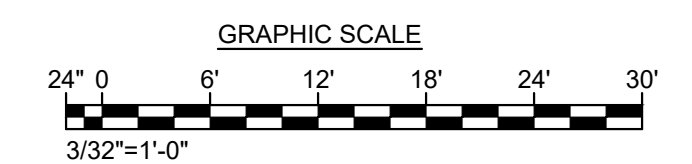


FLAGLER LANE ADA RAMP SITE PLAN - DEMO
3/32" = 1'-0"



FLAGLER LANE ADA RAMP SITE PLAN - NEW
3/32" = 1'-0"

DUNE PLANTING SCHEDULE											
PLANTING CATEGORY	SCIENTIFIC NAME	NAME	TOTAL AREA TO BE PLANTED (SQ. FT.)	MIN. HEIGHT	MIN. O.C. SPACING	MINIMUM % OF TOTAL AREA	MAXIMUM % OF TOTAL AREA	PROPOSED % OF TOTAL AREA (MUST EQUAL OR EXCEED 100%)	AREA TO BE PLANTED (SQ. FT.)	SPACING REQUIREMENTS (SQ. FT.)	TOTAL # OF PLANTS REQUIRED
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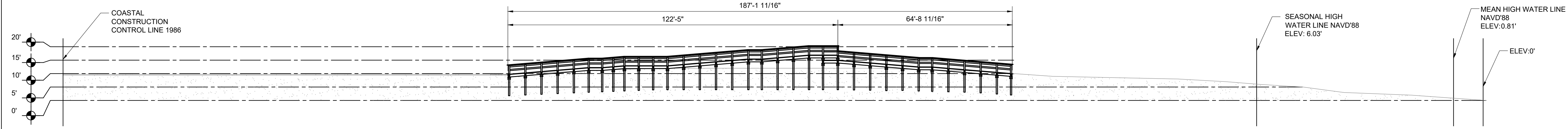
S-102
SHEET 4 OF 6

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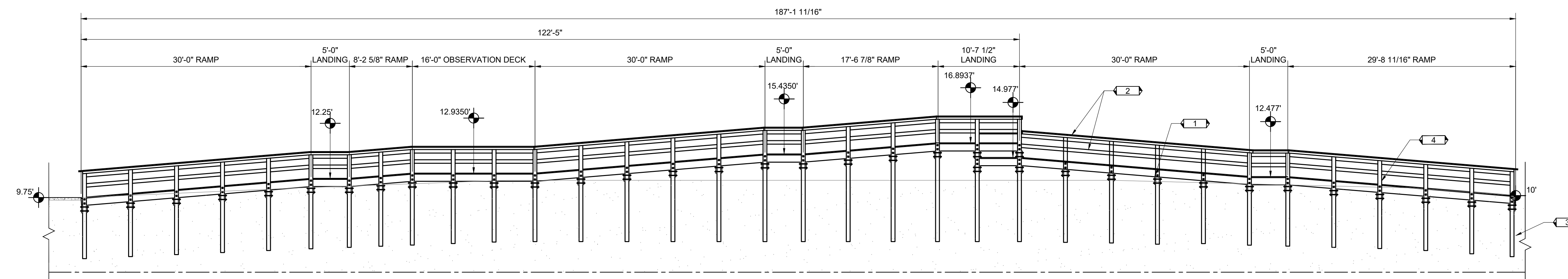
KEY NOTE(S):

- WHERE 2x12 ARE NOT CONTINUOUS SEE DETAILS ON S-401.
- ALL RAILING LUMBER SHALL BREAK ON ALTERNATING PILES TYPICAL. SEE DETAILS ON S-401 FOR RAILING PLACEMENT.
- 8'-0" MINIMUM EMBEDMENT TYPICAL.
- TURTLE BARRIER SHALL BE SOLID BOARDS OR PLANKS WITH NO MORE THAN 1" SPACING BETWEEN THEM. THE BARRIER SHALL BE BURIED A MINIMUM OF 1'-0" INTO THE SAND, HAVE A VERTICAL MINIMUM HEIGHT OF 2'-0" AND RUN UNTIL THE SPLIT PILE CAPS HAVE 3'-0" OF VERTICAL CLEARANCE BENEATH THEM, AND BE PROPERLY SECURED TO PILE. TURTLE BARRIERS ARE NOT REQUIRED LANDWARD BEYOND FOURTH PILE FROM SEAWARD END OF ADA CROSSOVER.

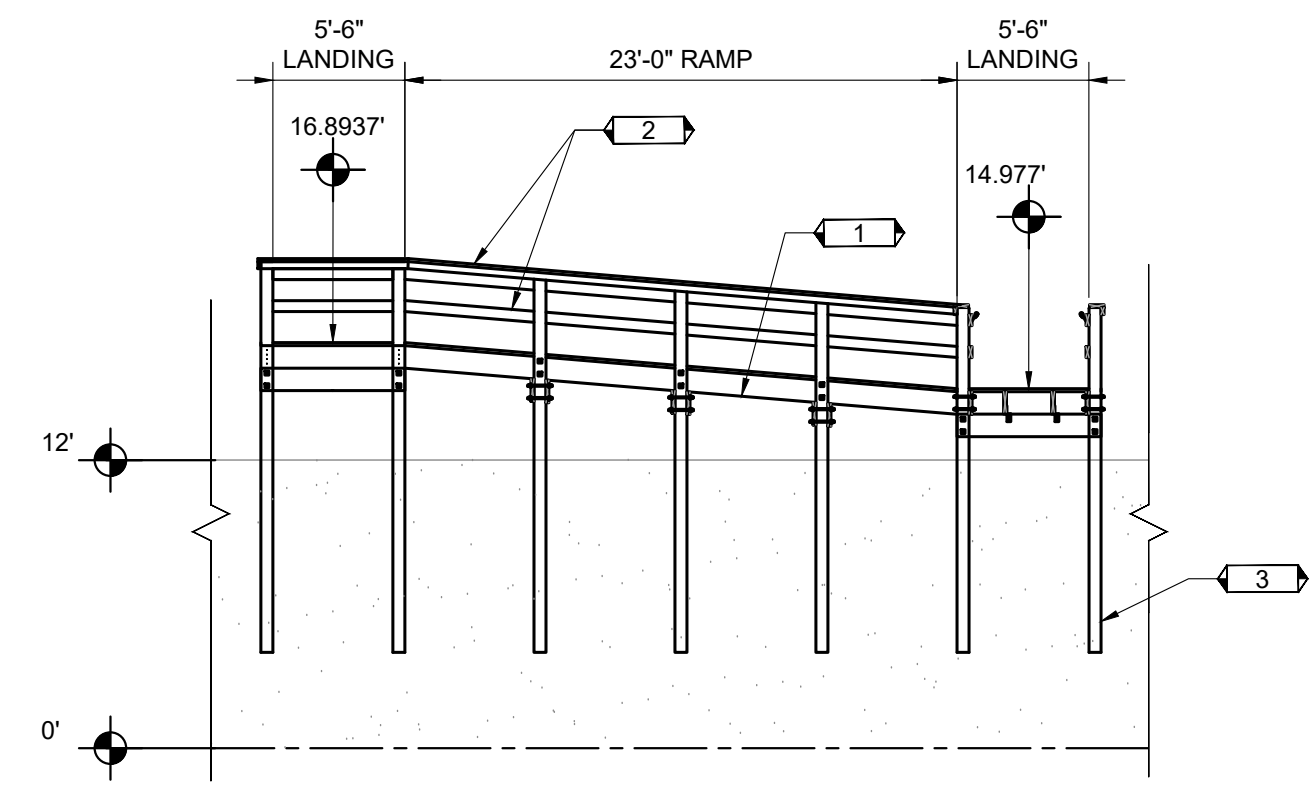
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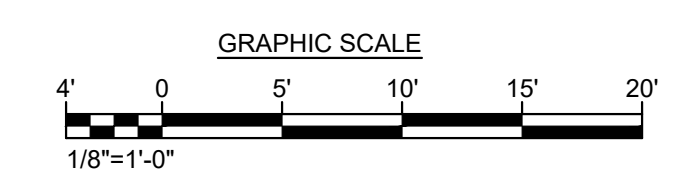
SECTION 1
 S-101 | S-301 | 1" = 20"



SECTION 2
 S-102 | S-301 | 1/8" = 1'-0"



SECTION 3
 S-102 | S-301 | 1/8" = 1'-0"



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CHECK	M. CHARMBURY
FILE	S-301.dwg

X:\Projects\60221 - City of Cocoa Beach Projects\002_ADA\DCOR_7th\Flagler\26_CAD\1_60221_002\Sheets\S-301.dwg 10/1/2025 10:49:47 AM Printed By: Jared Jacobs

1

2

3

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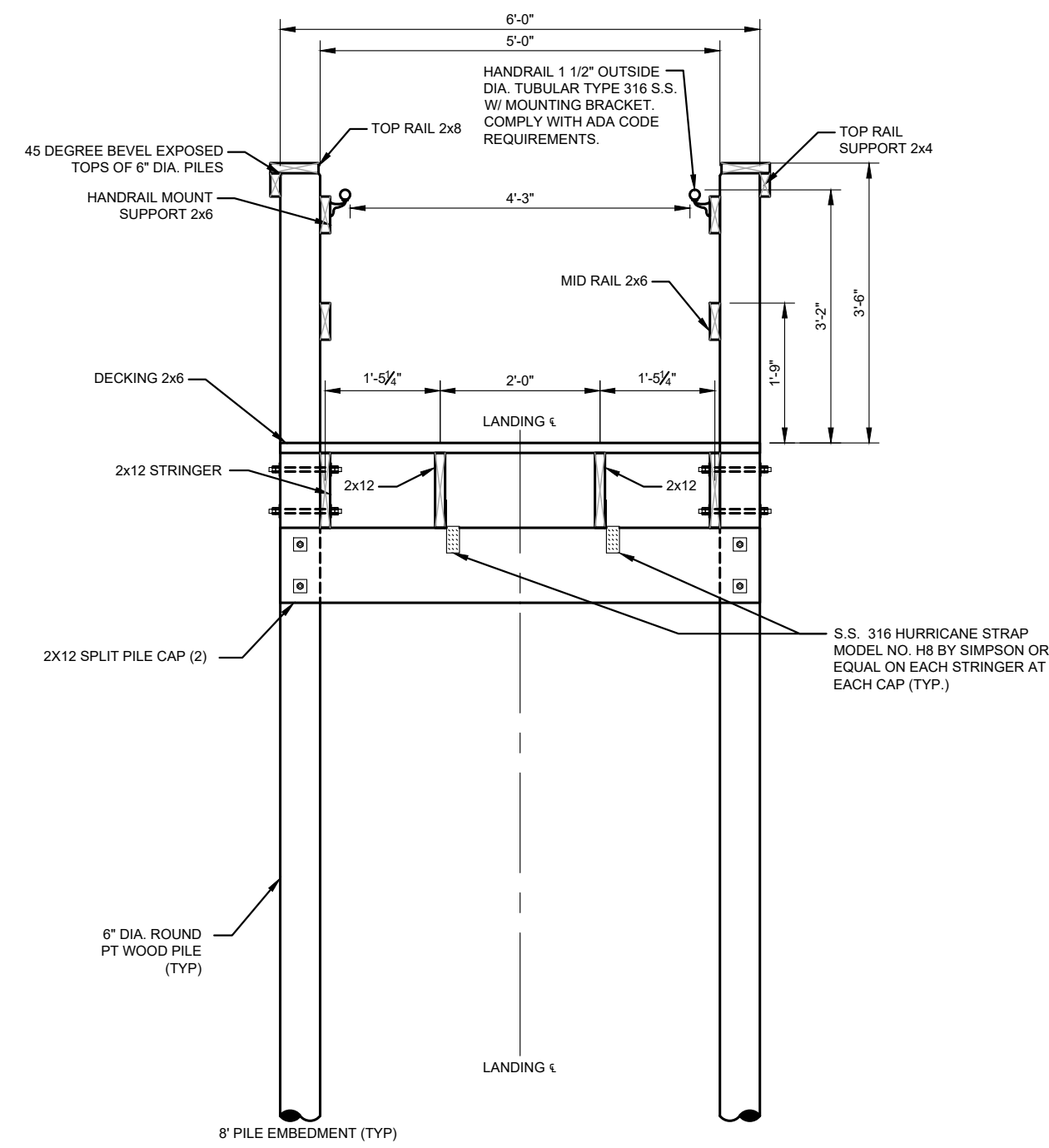
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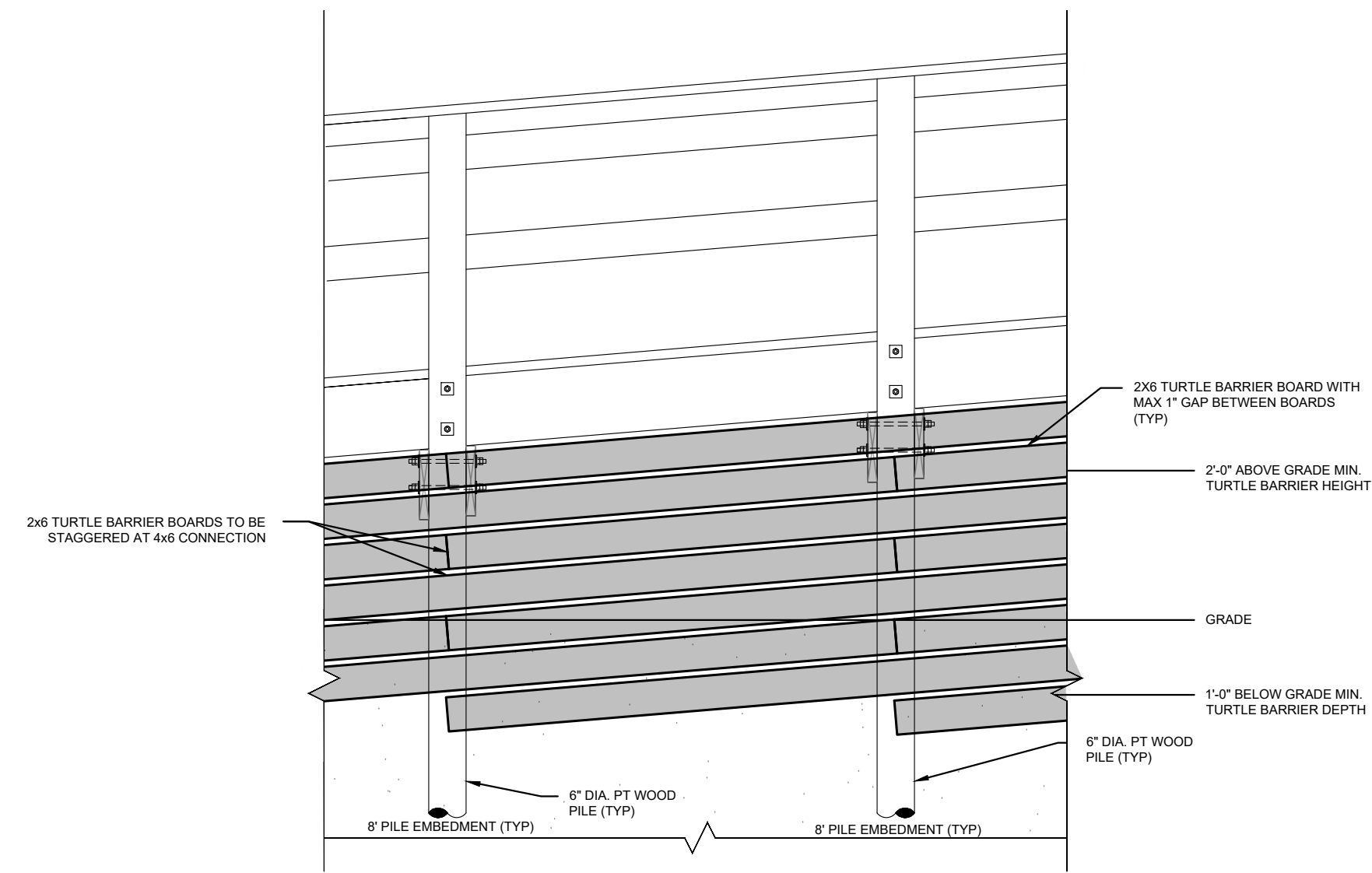
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B

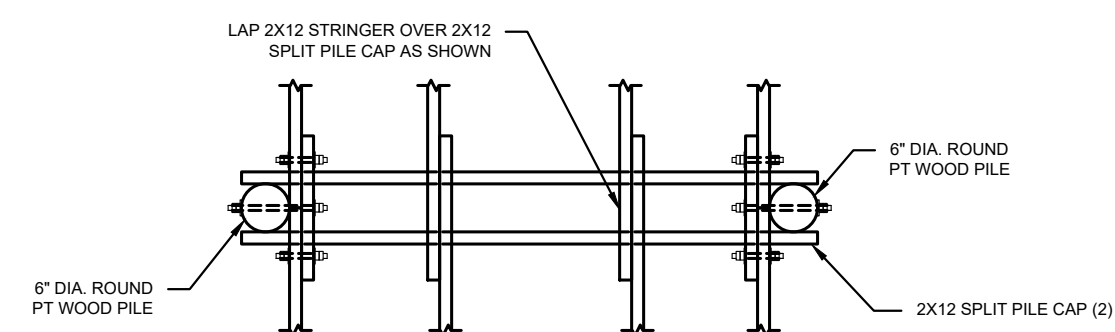
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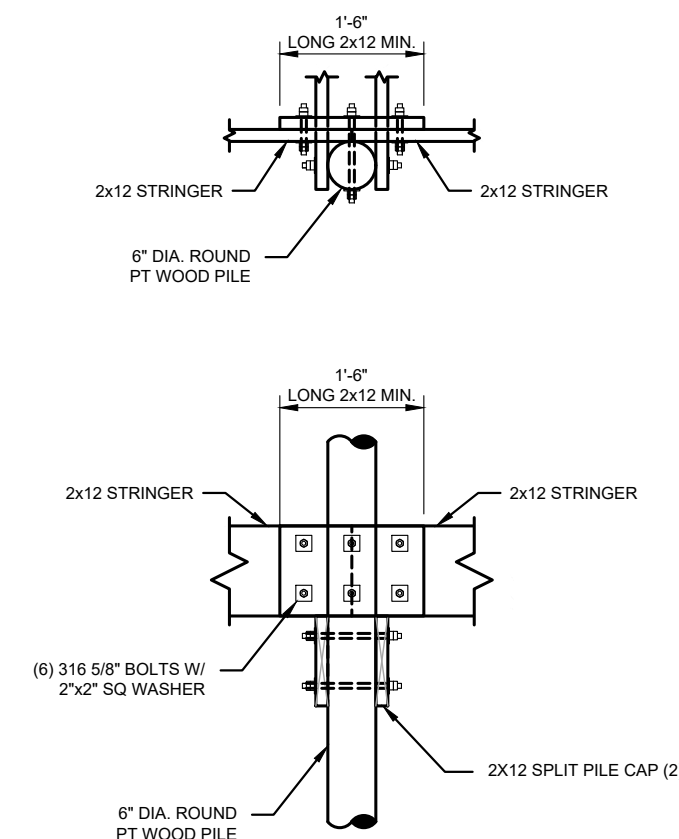
LANDING SECTION DETAIL
 1/2" = 1'-0"



TYPICAL TURTLE BARRIER ELEVATION DETAIL
 1/2" = 1'-0"



TYPICAL STRINGER LAP OVER PILE CAP DETAIL
 1/2" = 1'-0"



**TYPICAL STRINGER SPLICE AT 6\"/>
 1/2" = 1'-0"**

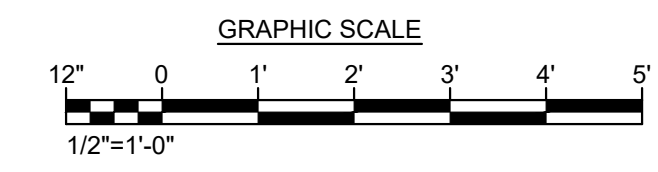
REV	DESCRIPTION	DATE

ADA DUNE CROSSOVER REPLACEMENT
 CITY OF COCOA BEACH
 299 FLAGLER LANE COCOA BEACH, FL 32931

PUBLIC BEACH ACCESS - DETAILS

PERMIT SET
 NOT FOR CONSTRUCTION

CDE #	160221_002
DATE	10/01/25
DRAWN	J. JACOBS
DESIGN	K. FINDLATER
CHECK	M. CHARMBURY
FILE	S-401.dwg



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