



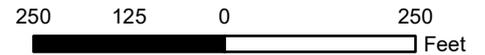
EXHIBIT A

Consent No. DACW17-9-25-0064
Permit No. SAJ-2002-05690 (NWP-RSS)
Grantee: City of Clearwater Engineering Department
25 and 45 Causeway Boulevard
Clearwater, Pinellas, Florida
Section 8 - T 29 S - R 15 E
3 October 2024

Intracoastal Waterway-Little Pass Clearwater Bay Project,
Affects Tract No. 100E-1

LEGEND

-  PROJECT LOCATION
-  IWW PERPETUAL EASEMENT RW
-  25 AND 45 CAUSEWAY BLVD



SCALE: 1 INCH = 250 FEET

VICINITY MAP



Prepared by:
Department of the Army
Corps of Engineers
Jacksonville District
Real Estate Division
Technical Services Branch

SHEET LIST TABLE		
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This item has been electronically signed and sealed by Nicole M Pauly, PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.



CLEARWATER BEACH MARINA REPLACEMENT

45 CAUSEWAY BLVD. CLEARWATER, FL 33767

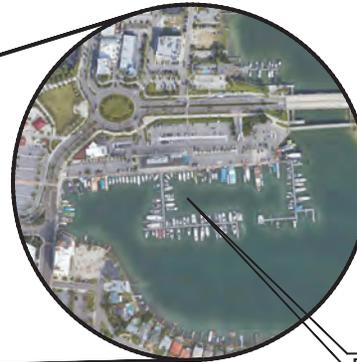
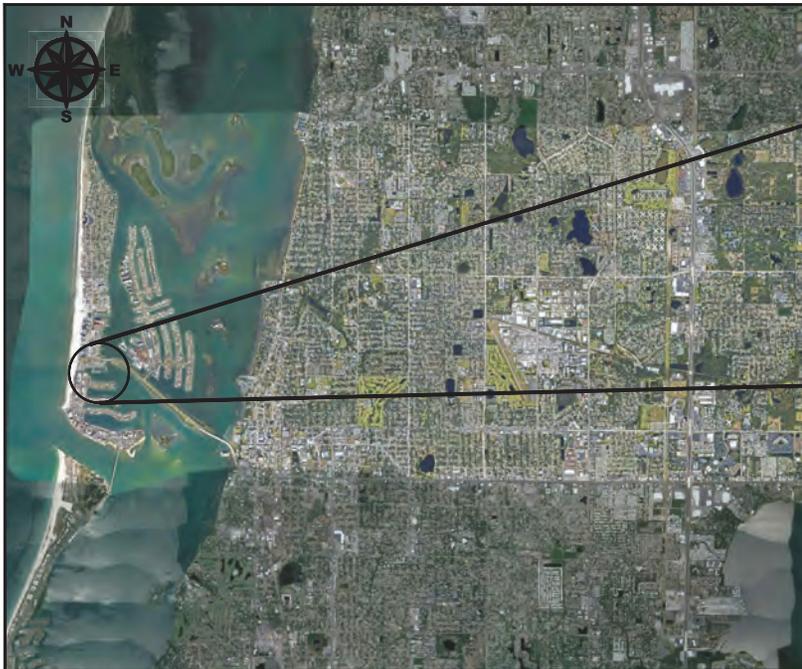
CITY OFFICIALS

<i>Frank Hibbard</i>	<i>Mayor</i>
<i>Mark Bunker</i>	<i>Councilmember</i>
<i>Kathleen Beckman</i>	<i>Councilmember</i>
<i>David Allbritton</i>	<i>Councilmember</i>
<i>Lina Teixeira</i>	<i>Councilmember</i>
<i>Jon Jennings</i>	<i>City Manager</i>

Tara L. Kivett, P.E.
City Engineer

Approved For Construction _____
CITY ENGINEER Tara L. Kivett, P.E. #86611

Date Approved _____



Project Location

REVISIONS			
NO.	DATE	DESCRIPTION	BY
01	2023-01-23	RAI 01 RESPONSE	NMS
02	2023-05-12	RAI 01 RESPONSE (CONTINUED)	NMS



moffatt & nichol
501 E. KENNEDY BLVD, SUITE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

PERMIT DRAWINGS

City Project No. 21-0008-MA
City Plan Set No. 2021015
ISSUED: 2022-06-30

DATE: 19-09-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 1 OF 17

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THESE PLANS AND BOTH THE PROJECT SPECIFICATIONS, AND THE FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, LATEST EDITION.
- SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE SITE CONDITIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED. METHODS OF DEMOLITION, CONSTRUCTION, AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF EXISTING STRUCTURES, AND NEW WORK FROM DAMAGE AND/OR DISPLACEMENT. THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, AND FALSE WORK AS NECESSARY TO PROTECT EXISTING AND NEW WORK FROM DAMAGE AND DISPLACEMENT. THE CONTRACTOR SHALL REPAIR DAMAGE TO EXISTING AND NEW WORK AT THE EXPENSE OF THE CONTRACTOR TO THE SATISFACTION OF THE CITY.
- THE CONTRACTOR SHALL PLACE CONSTRUCTION DEBRIS CONTROL DEVICES, BOOMS, TARPALLINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER.
- THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
- ALL ELEVATIONS SHOWN REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD) IN FEET.
- THE FOLLOWING TIDAL DATUM RELATIONSHIP IS BASED ON NOAA STATION 8726706 CLEARWATER HARBOR, FL. 1983-2001 EPOCH. COORDINATES REFERENCED TO PROJECT DATUM. TIDAL INFORMATION AS FOLLOWS:

TIDAL DATA	
MEAN HIGHER HIGH WATER (MHHW)	+0.99 NAVD
MEAN HIGH WATER (MHW)	+0.64 NAVD
NORTH AMERICAN VERTICAL DATUM	0.00 NAVD
MEAN SEA LEVEL (MSL)	-0.29 NAVD
MEAN LOW WATER (MLW)	-1.27 NAVD
MEAN LOWER LOW WATER (MLLW)	-1.75 NAVD
- HORIZONTAL CONTROL REFERENCED TO NORTH AMERICAN DATUM OF 1983, STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, IN FEET.
- SUBMERGED LANDS BOUNDARY SURVEY BY FLORIDA DESIGN CONSULTANTS, INC., DATED SEPTEMBER 2008.
- TOPOGRAPHIC SURVEY PREPARED BY THE CITY OF CLEARWATER, DATED FEBRUARY 2022.
- EXISTING HYDROGRAPHIC SURVEY PREPARED BY GEORGE F. YOUNG, INC., DATED MARCH 2020.
- SEA GRASS SURVEY PREPARED BY WOODS CONSULTING, DATED JUNE 21, 2022.
- UNFORESEEN CONDITIONS UNCOVERED DURING DEMOLITION OR CONSTRUCTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR SHALL LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES.
- THE CONTRACTOR SHALL REMOVE ALL BARGES, WORK BOATS, STAGING, AND OTHER TEMPORARY PLATFORMS AND/OR AREAS AT THE COMPLETION OF WORK.
- THE CONTRACTOR SHALL CONSIDER AND PLAN FOR, ON A DAILY BASIS, THE EFFECT OF TIDAL FLUCTUATIONS AND CURRENTS IN THE EXECUTION OF THE WORK.
- THE PROJECT SITE IS LOCATED IN AN ACTIVE WATERWAY. THE CONTRACTOR SHALL CONSIDER AND PLAN FOR THE EFFECTS OF PASSING VESSELS.
- CONTRACTOR SHALL COORDINATE UPLAND STAGING AND DREDGED MATERIAL CONTAINMENT AREAS WITH THE CITY PRIOR TO CONSTRUCTION.

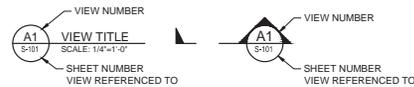
DEMOLITION NOTES

- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF CONSTRUCTION AND AVOID ANY DAMAGE TO THE EXISTING STRUCTURES.
- CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN INCLUDING BUT NOT LIMITED TO DETAILED MEANS AND METHODS, SEQUENCE OF WORK, EQUIPMENT, HAZARDOUS MATERIAL IDENTIFICATION, AND HANDLING AND DISPOSAL PROCESSES.
- ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE (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 EXPENSE OF THE CONTRACTOR.
- ALL DEMOLISHED MATERIAL, EXCEPT AS NOTED OTHERWISE, BECOMES THE PROPERTY OF, AND SHALL BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
- ALL REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES SHALL BE COORDINATED WITH THE ENGINEER & CITY PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST ORIGINATING FROM THE PROJECT SITE DURING CONSTRUCTION BY WATERING OR OTHER METHODS AS REQUIRED.
- ALL CONCRETE SHALL BE ASSUMED TO BE STEEL REINFORCED.
- ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.
- TREATED TIMBER SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE TERMS "DEMOLITION" AND "REMOVAL" ARE INTERCHANGEABLE WITHIN THESE DOCUMENTS AND REFER TO ALL WORK, TOOLS, AND EQUIPMENT NECESSARY TO REMOVE THE SPECIFIED COMPONENTS AND DISPOSE OF THEM OFFSITE (UON) IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

ABBREVIATIONS

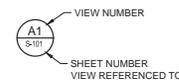
ACI	= AMERICAN CONCRETE INSTITUTE	LG	= LONG
ADA	= AMERICAN DISABILITIES ACT	LT	= LEFT
AISC	= AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MAX	= MAXIMUM
APPROX	= APPROXIMATE	MH	= MANHOLE
ASTM	= AMERICAN SOCIETY FOR TESTING MATERIALS	MHHW	= MEAN HIGHER HIGH WATER
AWS	= AMERICAN WELDING SOCIETY	MHW	= MEAN HIGH WATER
BL	= BASELINE	MIN	= MINIMUM
BLDG	= BUILDING	MISC	= MISCELLANEOUS
BOC	= BOTTOM OF CONCRETE	MLLW	= MEAN LOWER LOW WATER
BOTT	= BOTTOM	MLW	= MEAN LOW WATER
CIP	= CAST IN PLACE	MPH	= MILES PER HOUR
CJ	= CONSTRUCTION JOINT	MSL	= MEAN SEA LEVEL
CF	= CUBIC FEET	N	= NORTH
CL	= CENTERLINE	NAD	= NORTH AMERICAN DATUM
CLR	= CLEAR	NAVD	= NORTH AMERICAN VERTICAL DATUM
COMMS	= COMMUNICATIONS	NIC	= NOT IN CONTRACT
CONC	= CONCRETE	NTS	= NOT TO SCALE
CONST	= CONSTRUCTION	NO.	= NUMBER
CONT	= CONTINUOUS	OC	= ON CENTER
CTS	= CENTERS	PDA	= PILE DYNAMIC ANALYZE
CV	= CUBIC YARDS	PL	= PLATE
DBL	= DOUBLE	PSF	= POUND PER SQUARE FOOT
DET	= DETAIL	PSI	= POUND PER SQUARE INCH
DISCONT	= DISCONTINUOUS	QTY	= QUANTITY
E	= EAST	RCP	= REINFORCED CONCRETE PIPE
EA	= EACH	REINF	= REINFORCEMENT
EF	= EACH FACE	REQD	= REQUIRED
EL	= ELEVATION	RT	= RIGHT
ELEV	= ELEVATION	S	= SOUTH
EQ	= EQUAL	SF	= SQUARE FEET
EW	= EACH WAY	SP	= SOUTHERN PINE
EXIST	= EXISTING	SPA	= SPACES
EXP	= EXPANSION	SQ	= SQUARE
FDEP	= FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	STA	= STATION
FDOT	= FLORIDA DEPARTMENT OF TRANSPORTATION	STD	= STANDARD
FEC	= FIRE EXTINGUISHER CABINET	T	= TOP
FT	= FEET	TOC	= TOP OF CONCRETE
GR	= GRADE	TOS	= TOP OF STEEL
GRND	= GROUND	TBR	= TO BE REMOVED
HK	= HOOK	TYP	= TYPICAL
HORIZ	= HORIZONTAL	UG	= UNDERGROUND
IN.	= INCHES	UON	= UNLESS OTHERWISE NOTED
INFO	= INFORMATION	VERT	= VERTICAL
I.E.	= INVERT ELEVATION	W	= WEST
INV	= INVERT ELEVATION	WP	= WORK POINT
JT	= JOINT	W	= WITH
LB	= POUND	.	= SECONDS OR INCH
LF	= LINEAR FEET	'	= MINUTES OR FEET
		*	= ASTERISK
		□	= SQUARE
		#	= NUMBER OR POUNDS
		&	= AND
		@	= AT
		∅	= DIAMETER OR PHASE
		°	= DEGREES

LEGEND



VIEW TITLE

SECTION CALLOUT



DETAIL CALLOUT

PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION

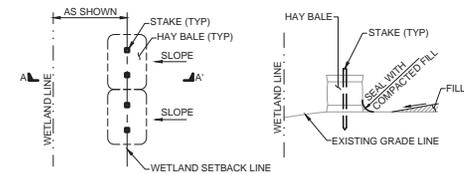
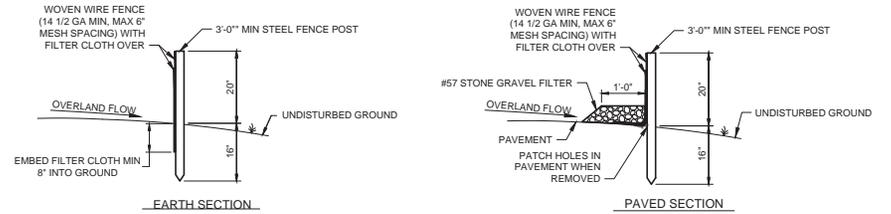
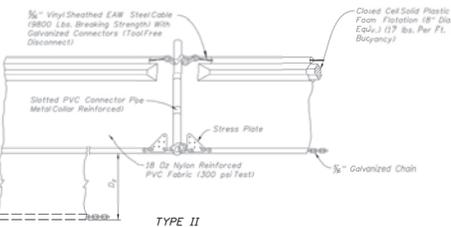
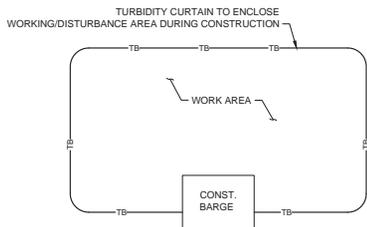
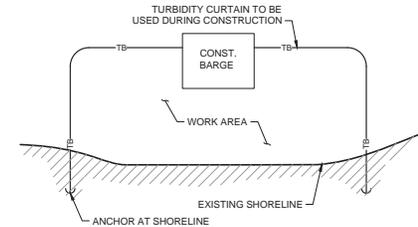
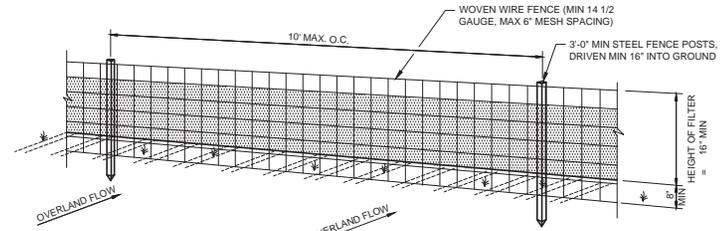
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284: 11/15/2023 10:45:00 AM; 285: 11/15/2023 10:45:00 AM; 286: 11/15/2023 10:45:00 AM; 287: 11/15/2023 10:45:00 AM;

TURBIDITY NOTES

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN TURBIDITY CONTROL CURTAIN AROUND WORK AREA. THE PURPOSE OF THE CURTAIN IS TO AVOID ANY DEBRIS FROM GOING INTO THE MAIN WATERS. THE CONTRACTOR HAS THE OPTION TO ENCLOSE THE ENTIRE WATERSIDE OF THE SITE, WITHIN THE LIMITS OF DISTURBANCE, OR TO INSTALL AND MOVE THE CURTAIN IN STAGES. 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 FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 103.
3. FINAL CURTAIN TYPE WILL BE SELECTED BY THE CHOSEN CONTRACTOR ACCORDING TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
4. THE TURBIDITY CURTAIN SHALL SURROUND THE IN-WATER WORK AREAS USING THE SMALLEST AREA PRACTICABLE TO CONTAIN TURBIDITY WHILE NOT ADVERSELY IMPACTING SUBMERGED AQUATIC VEGETATION OR BENTHIC RESOURCES.

SILT FENCE NOTES

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP & MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES & FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 - A. POSTS: STEEL EITHER "I" OR "U" TYPE
 - B. FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
 - C. FILTER CLOTH: SHALL MEET NCDOT, STANDARD SPECIFICATION, SECTION 893



NOTE:
1. FOR ADDITIONAL TEMPORARY EROSION SEDIMENT CONTROL NOTES AND DETAILS REFER TO FDOT STANDARDS.

PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION

501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-12
RAI 01 RESPONSE	NMS	2023-01-23
REVISION	BY	DATE

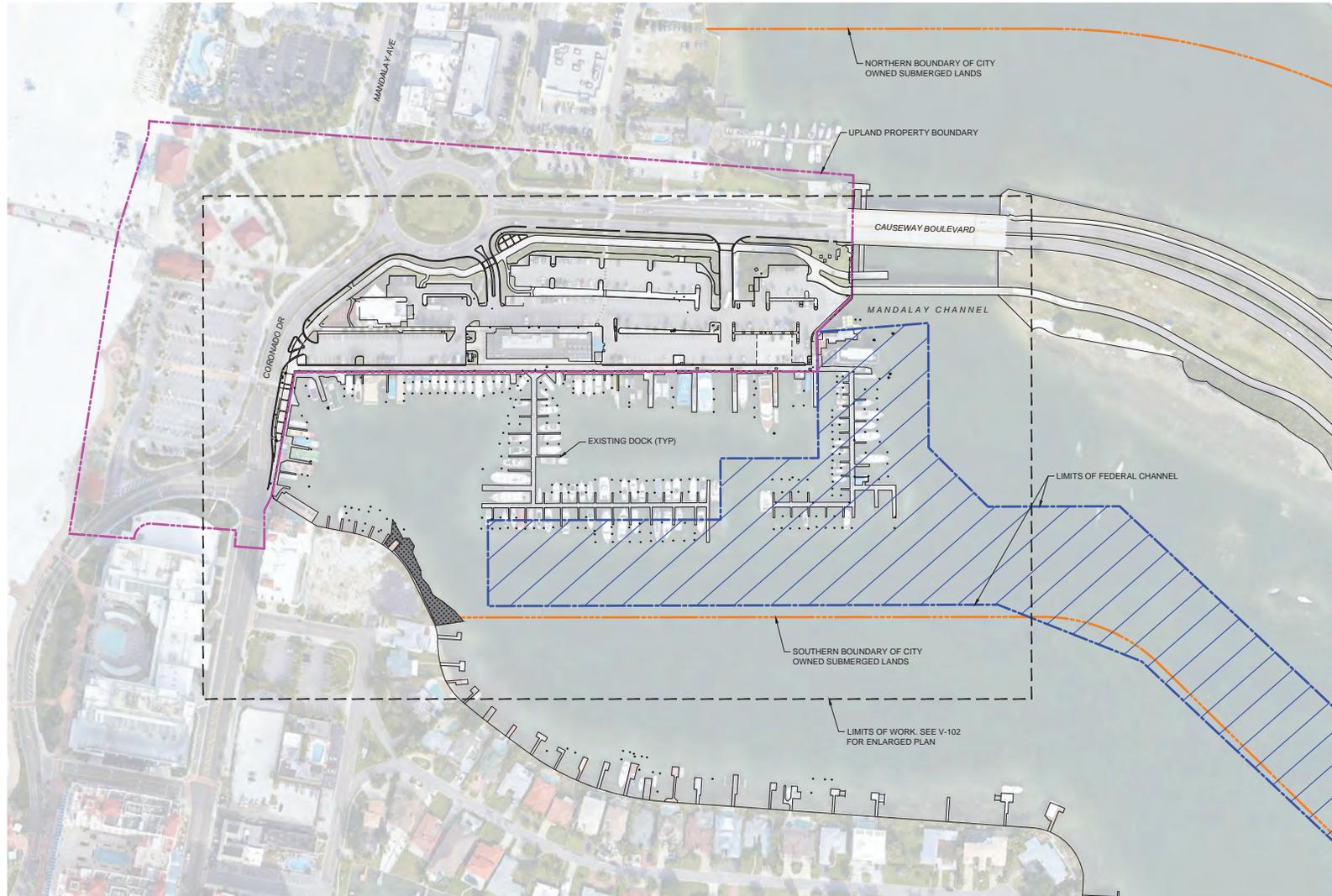
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
GENERAL NOTES (2 OF 2)

PROJECT NO.	211223	DESIGNED BY	JPM	SHEET REFERENCE NO.	
REV. DATE	21-0008-MA	CHECKED BY	DNC		
		DATE	05/12/23		
		DATE	05/12/23		
		DATE	05/12/23		

6-003
DACW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 3 OF 17

2023/05/12 2:28 PM By: JPM, DNC



LEGEND

- UPLAND PROPERTY BOUNDARY
- LIMITS OF CITY SUBMERGED LANDS
- LIMITS OF USACE FEDERAL CHANNEL
- ▨ LIMITS OF CHANNEL TO BE DEAUTHORIZED
- ▨ LIMITS OF SEAGRASS



PERMIT DRAWINGS
 ISSUED: 2023-01-23
 NOT TO BE USED FOR CONSTRUCTION

wdm
 501 E. KENNEDY BLVD, STE 1910
 TAMPA, FL 33602
 PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-01-10
RAI 01 RESPONSE	NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. MYRTLE AVE.
 CLEARWATER, FL 33756

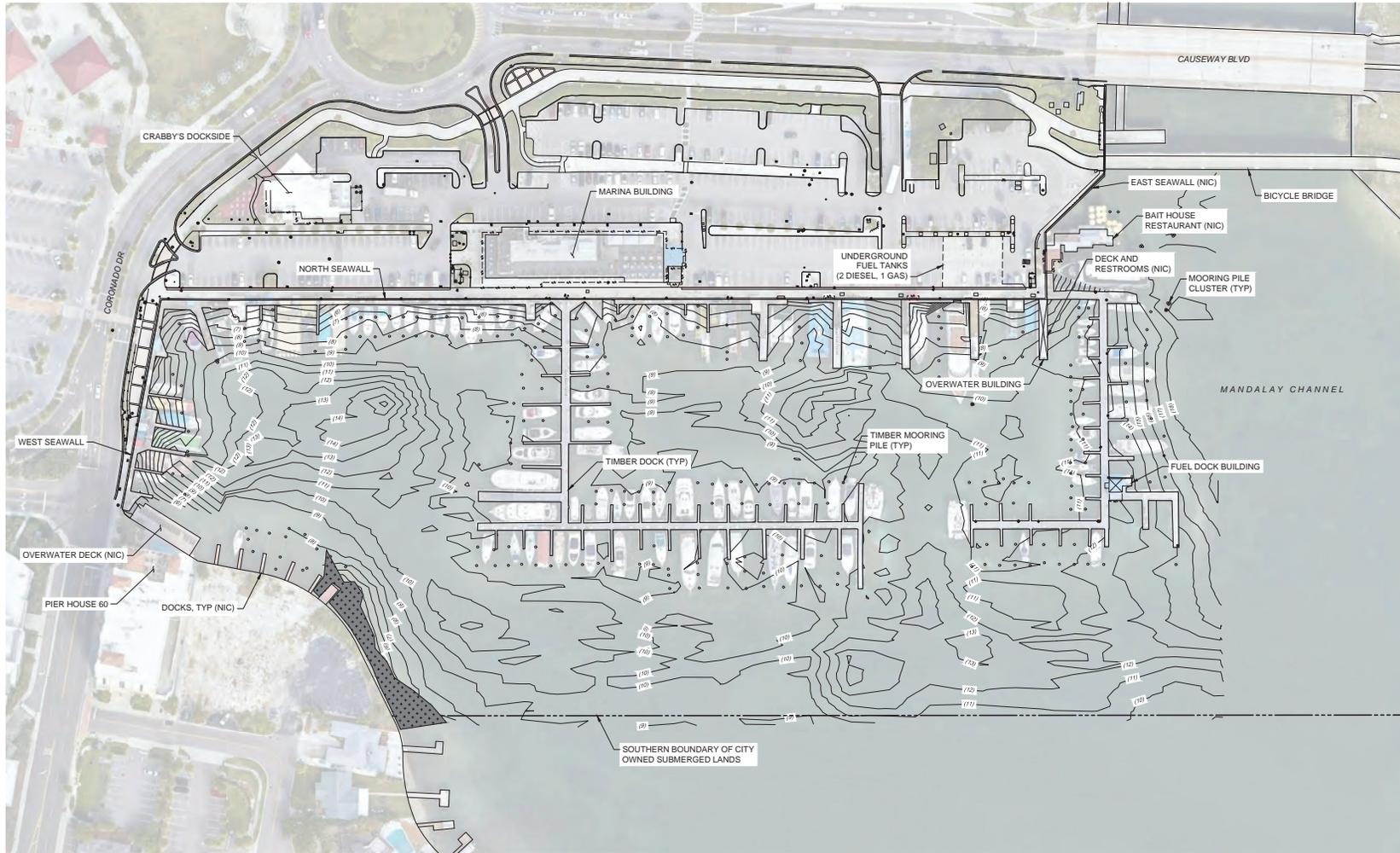
CLEARWATER BEACH MARINA REPLACEMENT
 EXISTING CONDITIONS & SURVEY PLAN

CITY PROJECT NO. 211223	DESIGNED BY JPM	SHEET REFERENCE NO. V-101
DATE: 2022-05-25	DATE: 2022-05-25	DATE: 2022-05-25
PROJECT NO. 2022-05-25	PROJECT NO. 2022-05-25	PROJECT NO. 2022-05-25
DESIGNED BY NICOLE M. SHAW, PE	DATE: 2022-03-28	DATE: 2022-03-28

U.S. ARMY CORPS OF ENGINEERS
 PERMIT NUMBER: SAJ-2002-05690
 DRAWING 4 of 14 09/2023

DACW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 4 OF 17

2023/01/23 09:58 AM 2023/01/23 09:58 AM 2023/01/23 09:58 AM



LEGEND

- (#)— EXISTING BATHYMETRIC CONTOUR
- - - - - CITY OWNED SUBMERGED LANDS
- LIMITS OF SEAGRASS

EXISTING SLIP MIX TABLE

SIZE (FT)	QUANTITY	%
25	10	6%
30	11	7%
35	30	18%
40	7	4%
45	53	32%
50	13	8%
55	2	1%
60	14	8%
65	1	1%
70	17	10%
80	2	1%
90	1	1%
100+	4	2%
TOTAL	165	100%



PERMIT DRAWINGS
 ISSUED: 2023-01-23
 NOT TO BE USED FOR CONSTRUCTION

2023/01/23 2:58 PM By: JPM, DHA
 2023/01/23 2:58 PM By: JPM, DHA


 501 E. KENNEDY BLVD, STE 1910
 TAMPA, FL 33602
 PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10
RAI 01 RESPONSE	NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. MYRTLE AVE.
 CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
 EXISTING MARINA PLAN

CITY PROJECT NO. 211223	DESIGNED BY JPM	SHEET REFERENCE NO.
RAI JOB NO. 21-0008-MA	CHECKED BY DNC	
DATE OF RAI 01 RESPONSE 01/23/2023	DATE OF RAI 01 RESPONSE 01/23/2023	

U.S. ARMY CORPS OF ENGINEERS
 PERMIT NUMBER: SAJ-2002-05690
 DRAWING 5 of 14 09/2023

DACW17-9-25-0064
 CITY OF CLEARWATER
 EXHIBIT "B"
 PG 5 OF 17



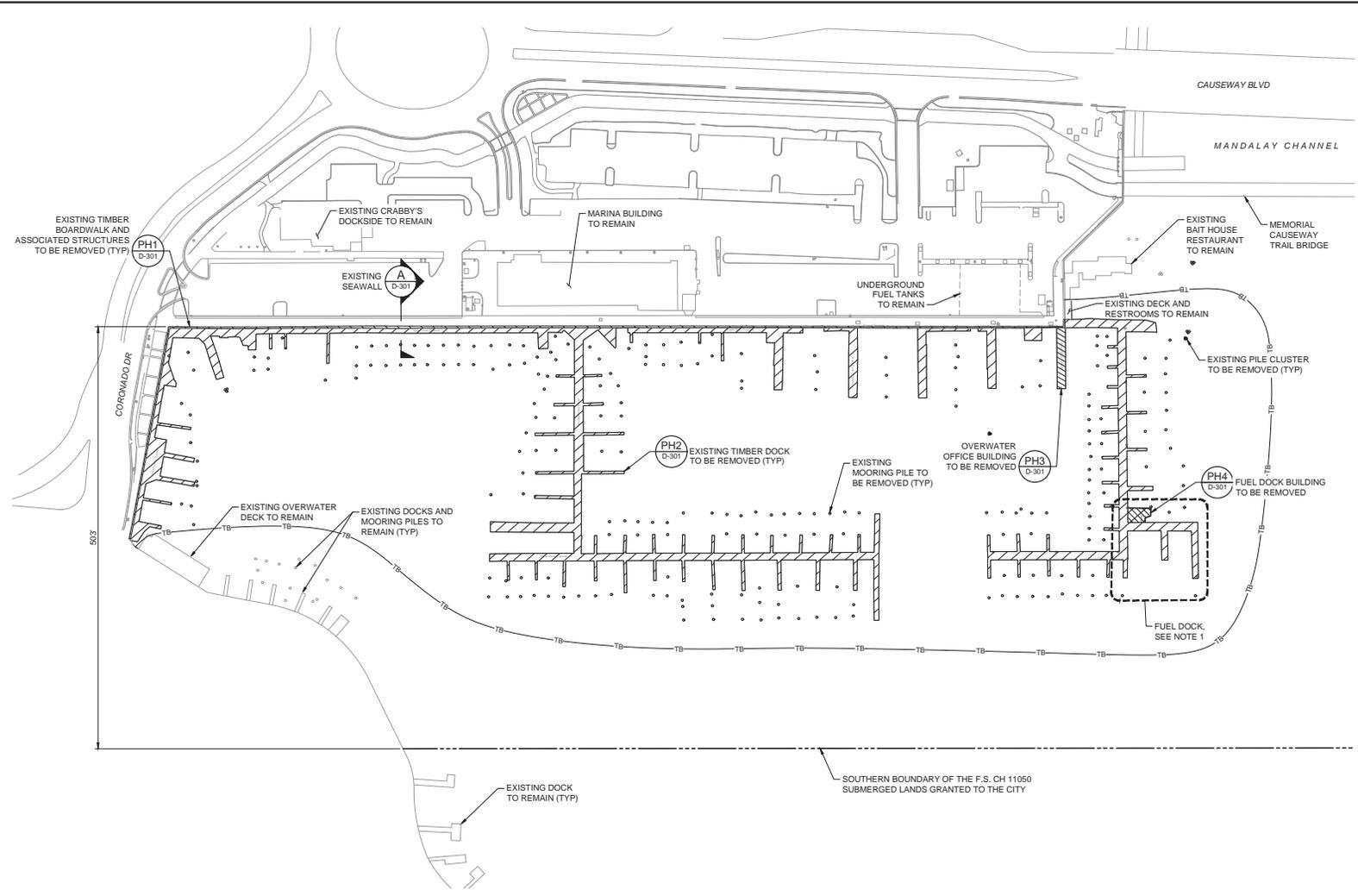
NOTES

- THREE FUEL DISPENSERS, TWO PUMPOUT STATIONS, AND ASSOCIATED PIPING SHALL BE REMOVED FROM FUEL DOCK TO JUNCTION BOXES/SUMPS LOCATED LANDSIDE OF SEAWALL.

LEGEND

- LIMITS OF DEMOLITION
- MOORING PILES TO BE REMOVED
- CITY OWNED SUBMERGED LANDS
- TURBIDITY CURTAIN

DEMOLITION QUANTITIES		
CONCRETE CAP	1,336	LF
TIMBER DOCK	37,116	SF
MOORING PILES	240	EA
DOCK PILES	950	EA
FUEL DOCK BUILDING	429	SF
OVERWATER OFFICE BUILDING	744	SF



PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION

2023/01/23 2:28 PM By: JPM, DTM
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 2023/01/23 2:28 PM By: JPM, DTM

501 E. KENNEDY BLVD, STE 1910
 TAMPA, FL 33602
 PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-01-12
RAI 01 RESPONSE	NMS	2023-01-23

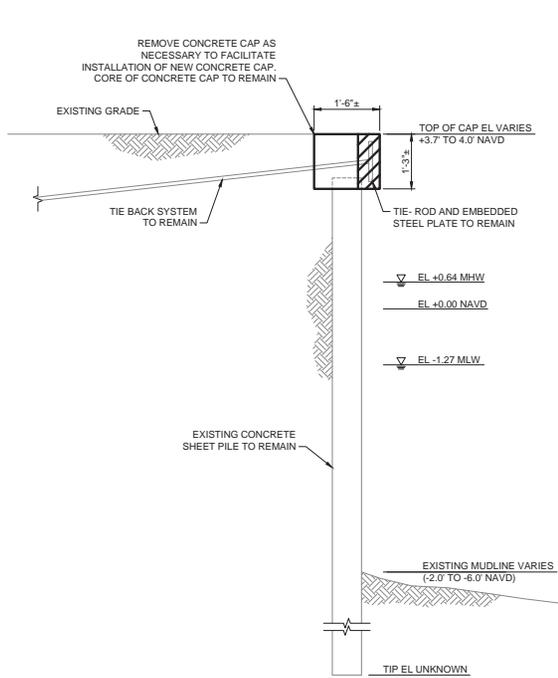
CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. MYRTLE AVE.
 CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
DEMOLITION PLAN

CITY PROJECT NO.	211223	DESIGNED BY	JPM	SHEET REFERENCE NO.	
ISSUE NO.	21-0008-MA	CHECKED BY	DNC		
DATE	01/23/23	APPROVED BY			
PROJECT	CLEARWATER BEACH MARINA REPLACEMENT	SCALE	AS SHOWN		

U.S. ARMY CORPS OF ENGINEERS
 PERMIT NUMBER: SAJ-2002-05690
 DRAWING 6 of 14 09/2023

DA-17-9-25-006-4
 CITY OF CLEARWATER
EXHIBIT "B"
PG 6 OF 17



A TYPICAL SECTION - PARTIAL SEAWALL CAP DEMOLITION
SCALE: 3/4"=1'-0"



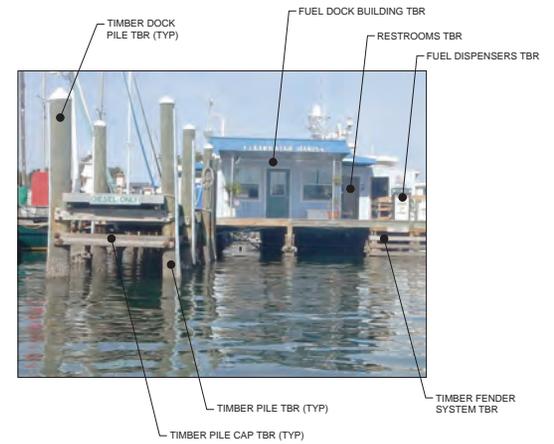
PH1 PHOTO - PERIMETER BOARDWALK



PH3 PHOTO - OFFICE BUILDING



PH2 PHOTO - TYPICAL DOCK



PH4 PHOTO - FUEL BUILDING

2'-0" 0'-0" 1'-0" 2'-0"
SCALE: GRAPHICAL

PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION



501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

NO.	REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)		NMS	2023-05-10
RAI 01 RESPONSE		NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
DEMOLITION SECTIONS & PHOTOS

CITY PROJECT NO.	211223	DESIGNED BY	JPM	SHEET REFERENCE NO.	
STATE PROJECT NO.	21-0005-MA	CHECKED BY	DNC		
DATE OF ISSUE	01/23/23	APPROVED BY			
SCALE	AS SHOWN	DATE OF REVIEW			
PROJECT NAME	CLEARWATER BEACH MARINA REPLACEMENT				

DAWAT-9-25-008-01
CITY OF CLEARWATER

U.S. ARMY CORPS OF ENGINEERS
PERMIT NUMBER: SAJ-2002-05690
DRAWING 7 of 14 09/2023

EXHIBIT "B"
PG 7 OF 17

2023/01/23 2:58 PM By: jpm, dnc



NOTES

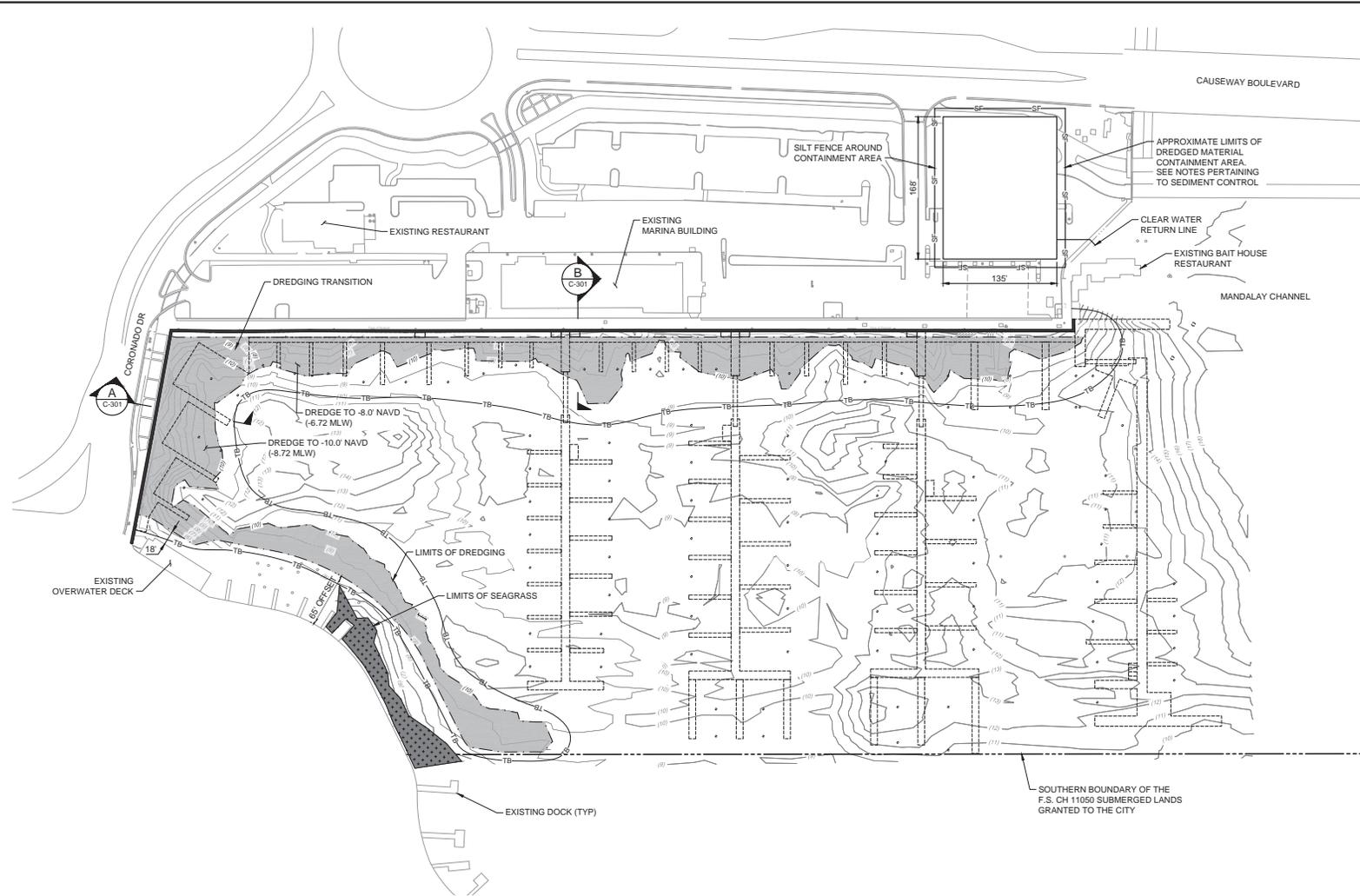
1. DREDGE MATERIAL WILL BE HANDLED AND DISPOSED OF OFFSITE AT AN APPROVED LOCATION.
2. LOCATION AND FINAL DIMENSIONS OF CONTAINMENT AREA IS APPROXIMATE. CONTRACTOR TO CONFIRM LOCATION AND FINAL DIMENSIONS ON-SITE BASED ON UPLAND AVAILABILITY AND DREDGING RATES.
3. DREDGE MATERIAL WILL BE PLACED ON SITE IN CONTAINMENT AREA AND DISPOSED OF OFF-SITE ONCE DEWATERED.

LEGEND

- DREDGING AREA
- PROPOSED DOCK FOOTPRINT
- CITY OWNED SUBMERGED LANDS
- LIMITS OF DREDGING
- TURBIDITY CURTAIN
- BULKHEAD REPLACEMENT LIMITS
- EXISTING SEAGRASS

DREDGING QUANTITIES

	AREA (SF)	VOLUME (CY)
DREDGE MATERIAL	68,792	3,714
1' OVERDREDGE ALLOWANCE	68,792	2,548



PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION

woodward-clark
501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10
RAI 01 RESPONSE	NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
DREDGING PLAN

APPROVED BY:	DESIGNED BY: JPM	SHEET REFERENCE NO.:
DATE:	DATE:	DATE:
PROJECT NO.:	PROJECT NO.:	PROJECT NO.:
DATE:	DATE:	DATE:
DATE:	DATE:	DATE:

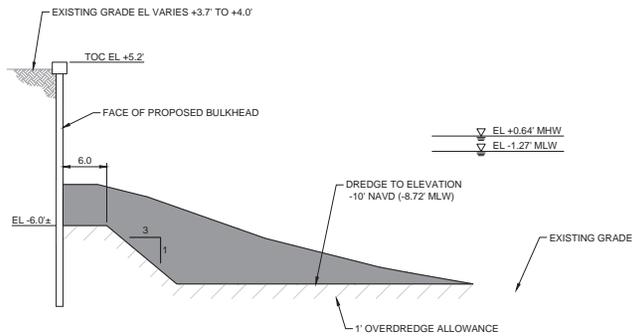
DACW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 8 OF 17

U.S. ARMY CORPS OF ENGINEERS
PERMIT NUMBER: SAJ-2002-05690
DRAWING 8 of 14 09/2023

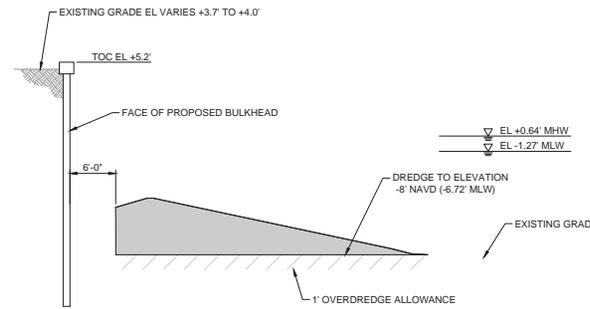
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 2023/09/22 2:28 PM By: JPM, DTM
 2023/09/22 2:28 PM By: JPM, DTM

LEGEND

 DREDGING LIMITS
 1' OVERDREDGE LIMITS
 EXISTING GRADE



A
 TYPICAL SECTION AT WEST BULKHEAD
 SCALE: 1"=10'



B
 TYPICAL SECTION AT NORTH BULKHEAD
 SCALE: 1"=10'



PERMIT DRAWINGS
 ISSUED: 2023-01-23
 NOT TO BE USED FOR CONSTRUCTION

501 E. KENNEDY BLVD, STE 1910
 TAMPA, FL 33602
 PHONE: (813) 258-8818

RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10	
RAI 01 RESPONSE	NMS	2023-01-23	
REVISION	BY	DATE	

CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. MYRTLE AVE.
 CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
 DREDGING CROSS SECTIONS

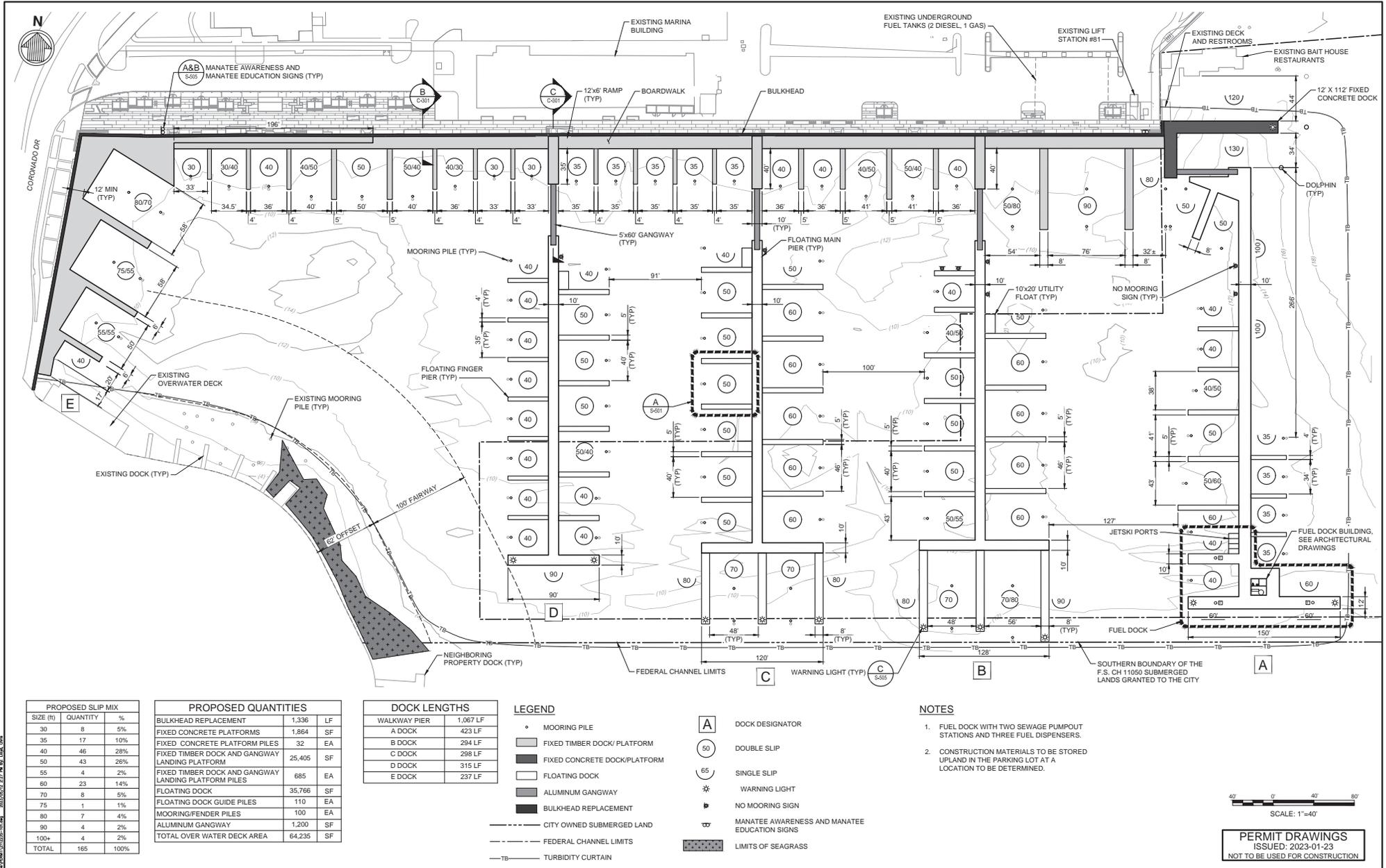
CITY PROJECT NO.	DESIGNED BY	JPM	SHEET REFERENCE NO.
RAI 01 RESPONSE	CHECKED BY	DNC	
DATE: 2023-03-28	APPROVED BY	NMS	
PROJECT NO.	SCALE	AS SHOWN	

DACW17-9-25-0064
 CITY OF CLEARWATER

U.S. ARMY CORPS OF ENGINEERS
 PERMIT NUMBER: SAJ-2002-05690
 DRAWING 9 of 14 09/2023

EXHIBIT "B"
PG 9 OF 17

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PROPOSED SLIP MIX	SIZE (ft)	QUANTITY	%
30	8	5	5%
35	17	10%	
40	46	28%	
50	43	26%	
55	4	2%	
60	23	14%	
70	8	5%	
75	1	1%	
80	7	4%	
90	4	2%	
100+	4	2%	
TOTAL	165	100%	

PROPOSED QUANTITIES		
BULKHEAD REPLACEMENT	1,336	LF
FIXED CONCRETE PLATFORMS	1,864	SF
FIXED CONCRETE PLATFORM PILES	32	EA
FIXED TIMBER DOCK AND GANGWAY LANDING PLATFORM	25,405	SF
FIXED TIMBER DOCK AND GANGWAY LANDING PLATFORM PILES	685	EA
FLOATING DOCK	35,766	SF
FLOATING DOCK GUIDE PILES	110	EA
MOORING/FENDER PILES	100	EA
ALUMINUM GANGWAY	1,200	SF
TOTAL OVER WATER DECK AREA	64,235	SF

DOCK LENGTHS	
WALKWAY PIER	1,067 LF
A DOCK	423 LF
B DOCK	294 LF
C DOCK	298 LF
D DOCK	315 LF
E DOCK	237 LF

- LEGEND**
- MOORING PILE
 - ◻ FIXED TIMBER DOCK/ PLATFORM
 - ◻ FIXED CONCRETE DOCK/PLATFORM
 - ◻ FLOATING DOCK
 - ◻ ALUMINUM GANGWAY
 - ◻ BULKHEAD REPLACEMENT
 - CITY OWNED SUBMERGED LAND
 - FEDERAL CHANNEL LIMITS
 - TB- TURBIDITY CURTAIN
 - A DOCK DESIGNATOR
 - 50 DOUBLE SLIP
 - 65 SINGLE SLIP
 - * WARNING LIGHT
 - NO MOORING SIGN
 - MANATEE AWARENESS AND MANATEE EDUCATION SIGNS
 - LIMITS OF SEAGRASS

- NOTES**
- FUEL DOCK WITH TWO SEWAGE PUMPOUT STATIONS AND THREE FUEL DISPENSERS.
 - CONSTRUCTION MATERIALS TO BE STORED UPLAND IN THE PARKING LOT AT A LOCATION TO BE DETERMINED.



PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION

501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

BAI 01 RESPONSE (CONTINUED) NMS 2023-05-10
BAI 01 RESPONSE NMS 2023-01-23

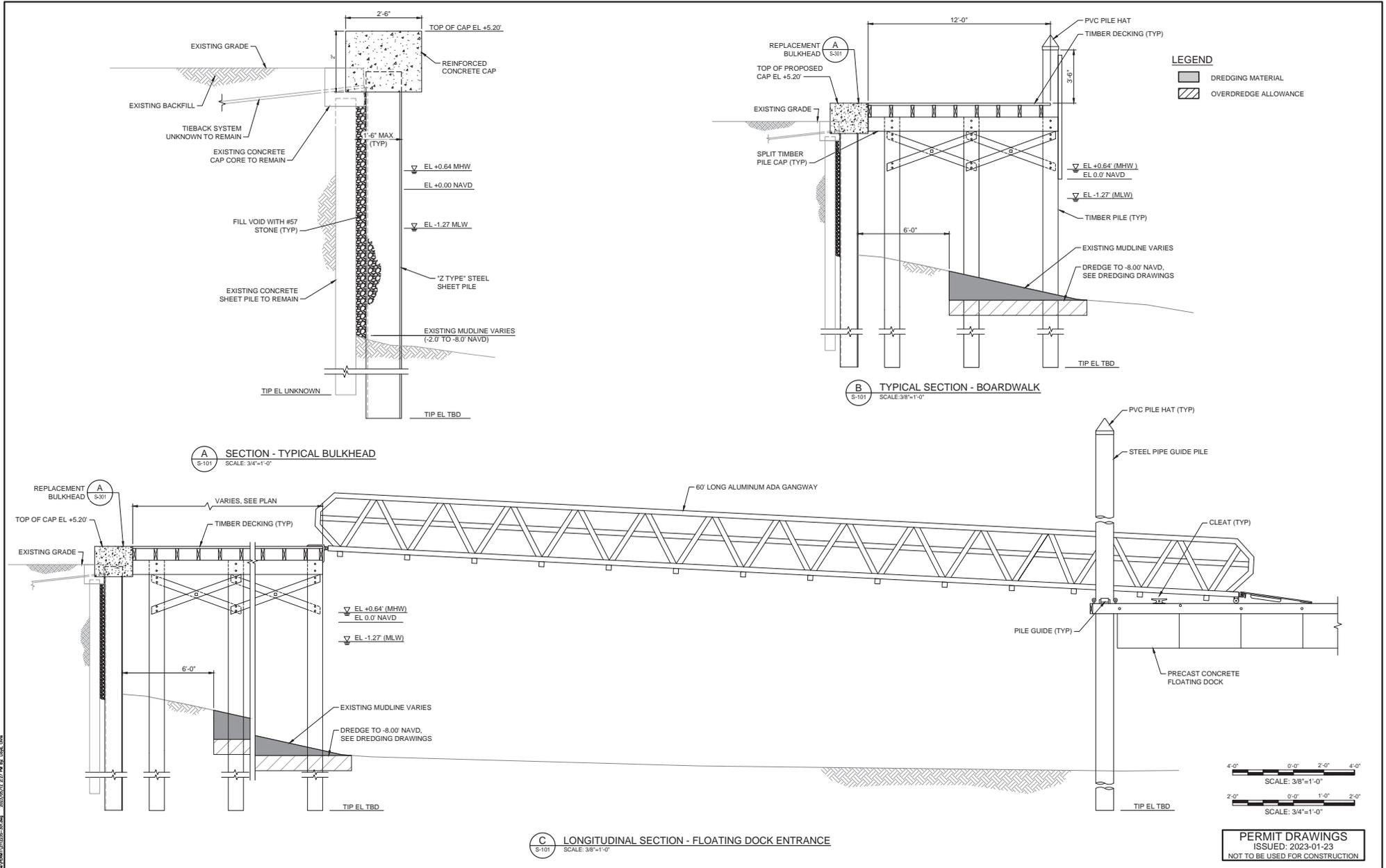
REVISION BY DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
STRUCTURAL PLAN

DAW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 10 OF 17

DATE: 2023-02-23
DRAWN BY: NIMS
CHECKED BY: NIMS
DESIGNED BY: JPM
ISSUED: 2023-01-23
PROJECT NO.: 2022-02-23
SCALE: AS SHOWN
DRAWN BY: NICOLE M. SHAW, PE



A SECTION - TYPICAL BULKHEAD
SCALE: 3/4"=1'-0"

B TYPICAL SECTION - BOARDWALK
SCALE: 3/8"=1'-0"

C LONGITUDINAL SECTION - FLOATING DOCK ENTRANCE
SCALE: 3/8"=1'-0"

LEGEND

 DREDGING MATERIAL
 OVERDREDGE ALLOWANCE

4'-0" 0'-0" 2'-0" 4'-0"
SCALE: 3/8"=1'-0"
2'-0" 0'-0" 1'-0" 2'-0"
SCALE: 3/4"=1'-0"

PERMIT DRAWINGS
 ISSUED: 2023-01-23
 NOT TO BE USED FOR CONSTRUCTION

501 E. KENNEDY BLVD, STE 1910
 TAMPA, FL 33602
 PHONE: (813) 258-8818

RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10
RAI 01 RESPONSE	NMS	2023-01-23
REVISION	BY	DATE

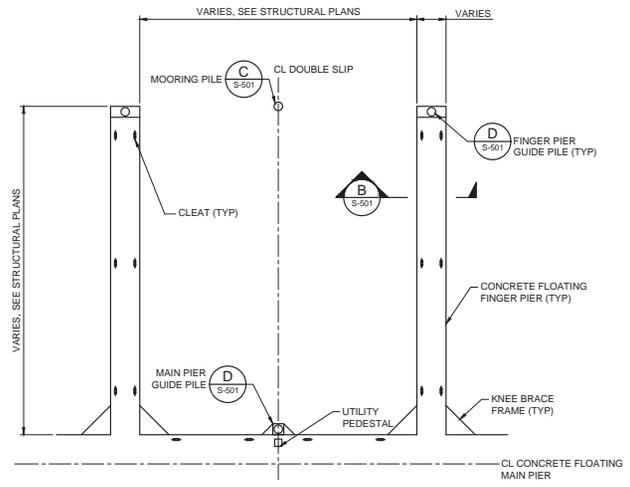
CITY OF CLEARWATER, FLORIDA
 ENGINEERING DEPARTMENT
 100 S. MYRTLE AVE.
 CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
 TYPICAL SECTIONS

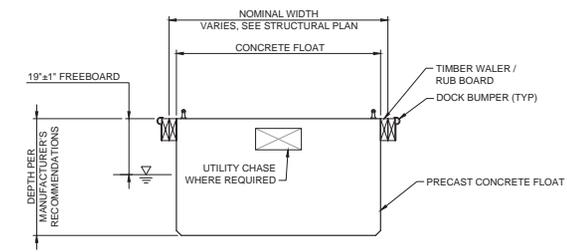
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 DATE DRAWN: 2022-03-28
 DRAWN BY: JPM
 CHECKED BY: NMS
 DESIGNED BY: NMS
 PERMITTED BY: NICOLE M. SHAW, PE 2022-03-28
 SHEET REFERENCE NO. S-301
 DATE: MARCH 11, 2023

U.S. ARMY CORPS OF ENGINEERS
 PERMIT NUMBER: SAJ-2002-05690
 DRAWING 11 of 14 09/2023

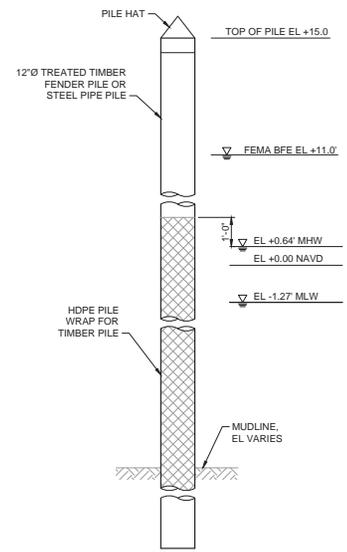
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CITY OF CLEARWATER
EXHIBIT "B"
PG 11 OF 17
 Page 11 of 14



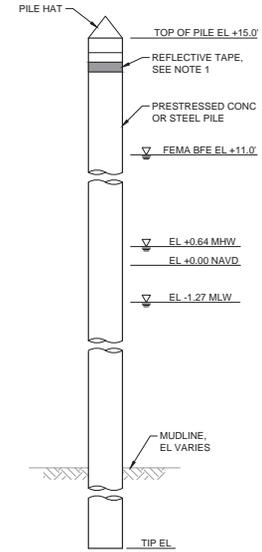
A PLAN - TYPICAL SLIP
SCALE: NTS



B SECTION - FLOATING DOCK
SCALE: 1/2"=1'-0"



C DETAIL - MOORING PILE
SCALE: 1/2"=1'-0"



D DETAIL - GUIDE PILE
SCALE: 1/2"=1'-0"

NOTES

1. REFLECTIVE TAPE TO BE PROVIDED FOR ALL T-HEAD GUIDE PILES.



PERMIT DRAWINGS
ISSUED: 2023-01-23
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woodward-clark
501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10
RAI 01 RESPONSE	NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

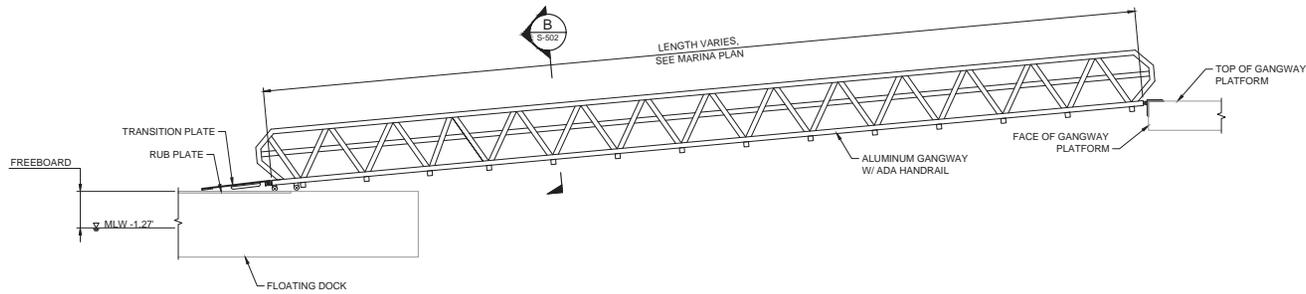
CLEARWATER BEACH MARINA REPLACEMENT
FLOATING DOCK DETAILS

DATE PLOTTED: 2023-03-28	ISSUED BY: NMS	PERMIT NO. S-501
DATE EXAM: 2022-03-28	CHECKED BY: NMS	
DATE ENTERED: 2022-03-28	DESIGNED BY: NMS	
DATE SUBMITTED: 2022-03-28	PREPARED BY: NICOLE M. SHAW, PE	INDEX 12 OF 14

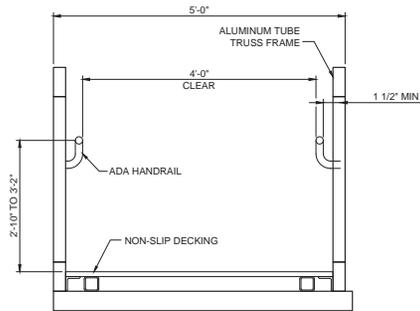
U.S. ARMY CORPS OF ENGINEERS
PERMIT NUMBER: SAJ-2002-05690
DRAWING 12 of 14 09/2023

DAW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 12 OF 17

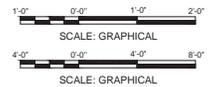
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A ELEVATION - TYPICAL GANGWAY
SCALE: 1/4"=1'-0"



B SECTION - ALUMINUM GANGWAY
SCALE: 1"=1'-0"



PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION



501 E. KENNEDY BLVD, STE 1910
TAMPA, FL 33602
PHONE: (813) 258-8818

REVISION	BY	DATE
RAI 01 RESPONSE (CONTINUED)	NMS	2023-05-10
RAI 01 RESPONSE	NMS	2023-01-23

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

CLEARWATER BEACH MARINA REPLACEMENT
GANGWAY DETAILS

DACW17-9-25-0064
CITY OF CLEARWATER
EXHIBIT B
PG 13 OF 17

U.S. ARMY CORPS OF ENGINEERS
PERMIT NUMBER: SAJ-2002-05690
DRAWING 13 of 14 09/2023

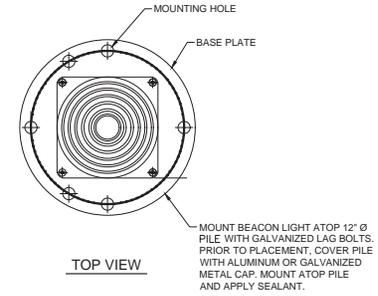
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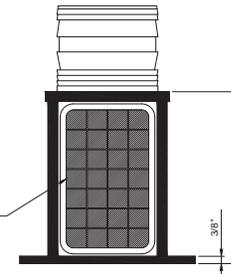
A MANATEE AWARENESS SIGN
SCALE: NTS



B MANATEE EDUCATION SIGN
SCALE: NTS



TOP VIEW



SIDE VIEW

C DETAIL - WARNING LIGHT
SCALE: NTS



PERMIT DRAWINGS
ISSUED: 2023-01-23
NOT TO BE USED FOR CONSTRUCTION



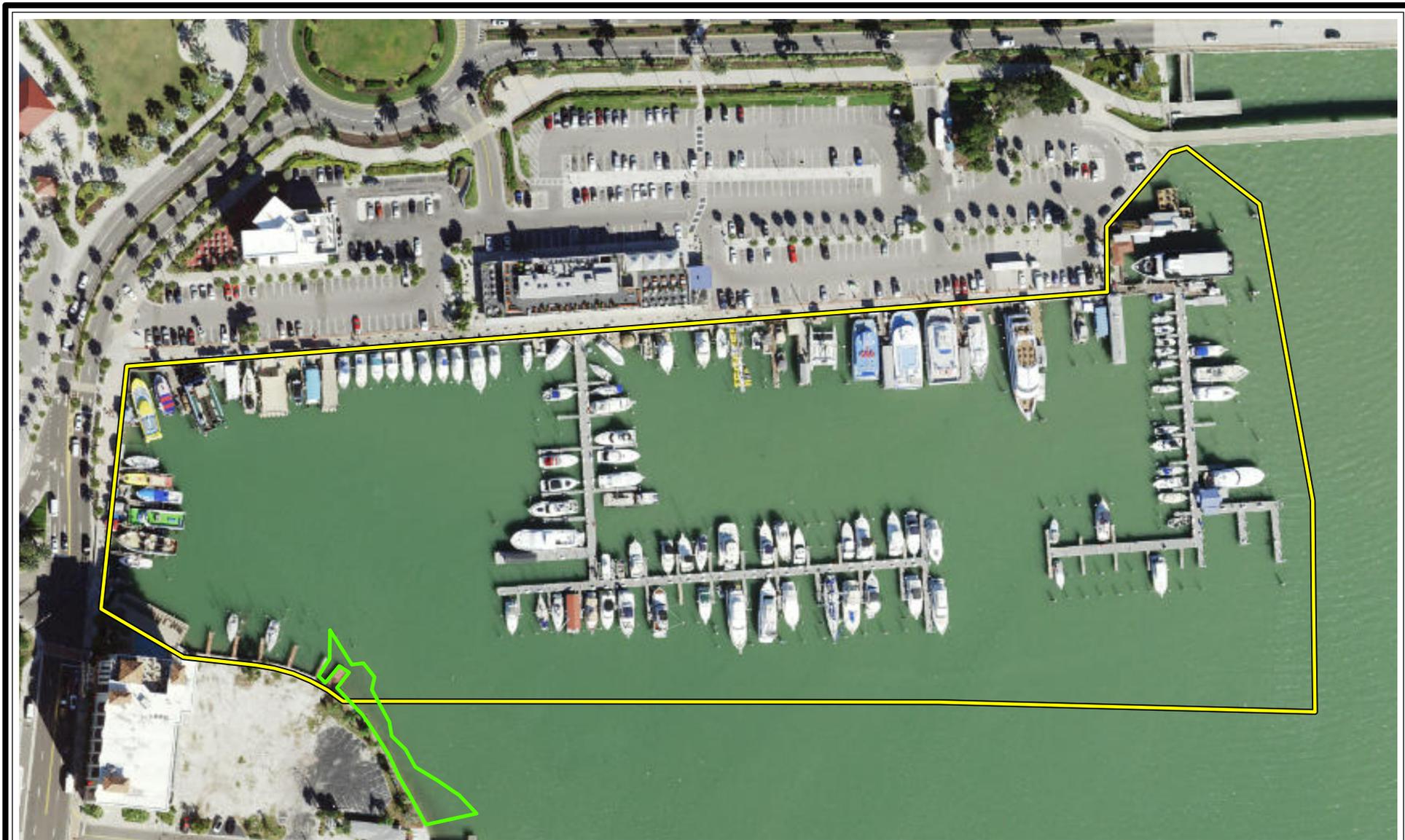
501 E. KENNEDY BLVD, STE 1910
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RAI 01 RESPONSE	NMS	2023-01-23	
REVISION	BY	DATE	

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

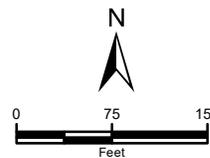
CLEARWATER BEACH MARINA REPLACEMENT
MISCELLANEOUS DETAILS

DACW 7.9-25-0064
CITY OF CLEARWATER
EXHIBIT B
PG 14 OF 17



Legend

-  Survey Area
-  Sea Grass



Sources: SWFWMD Imagery, 2020; ECT, 2022.

**Figure 2
Sea Grass Survey**

Clearwater Municipal Marina
Pinellas County, Florida

DA 17-035-0064
CITY OF CLEARWATER
EXHIBIT "B"
PG 15 OF 17

Legend

 Disposal Site



Maxar, Microsoft, University of South Florida, City of Tampa, County of Pinellas, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA



SAJ-2002-05690
Industrial yard facilities (Site 1)
5600 Commerce St.
Tampa, FL

0 0.05 0.1 0.2

mi

Map Center: 82.544285°W 27.859564°N

Map Created by **CITY OF CLEARWATER**
Date: 2/10/2025
Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere

DACW17-9-25-0064
EXHIBIT "B"
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Port Redwing

Disposal Site

Offloading Site