



CITY OF DELRAY BEACH  
100 N.W. 1<sup>ST</sup> AVENUE, DELRAY BEACH, FL 33444

## Solicitation Addendum

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**Addendum No.:** 3

**Solicitation No.:** 2017-044

**Project No.:** 16-096

**Solicitation Title:** Veterans Park Seawall Repair and Dock Replacement

**Addendum Date:** March 22, 2017

**Purchasing Contact:** Ryan Lingholm

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**THE FOLLOWING ITEMS ARE MADE AND HEREBY BECOME A PART OF THIS SOLICITATION:**

**CHANGE TO:**

**SECTION 1, ITEM 9(F)**

- F. Contractors Liability (~~Errors & Omissions~~) Insurance: with a limit of not less than \$1,000,000 per occurrence.

**CHANGE TO:**

**SECTION 2, ITEM 3 BID FORMAT**

Chapter 1	Letter of Intent Form 1, Bid Submittal Signature Page
Chapter 2	Form 11, Bidder Information <del>Form 12, Questionnaire</del> Evidence of Insurance, Professional Licenses, and Certificates W-9
Chapter 3	Form 2, Public Entity Crimes Form 3, Drug-Free Workplace Form 4, Conflict of Interest
Chapter 4	Form 5, Acknowledgement of Addenda
Chapter 5	Form 7, Genuine Bid Form 8, Bid Guaranty

	Form 9, Cone of Silence Form 10, Non-Collusion Affidavit Form 12, Questionnaire
Chapter 6	Form 6, Schedule of Pricing

**REPLACE:**

**APPENDIX C PLANS AND DRAWINGS**

Replace Appendix C Plans and Drawings with Appendix C Plans and Drawings revised per this Addendum No. 3.

NOTE: Any changes to Appendix C are noted with a revision cloud and a number. All other terms and conditions remain as stated in the ITBC.

**REPLACE:**

**APPENDIX D SPECIFICATIONS, SECTION 1025 MEASUREMENT AND PAYMENT**

Replace Appendix D Specifications, Section 1025 Measurement and Payment with Appendix D Specifications, Section 1025 Measurement and Payment revised per this Addendum No. 3.

NOTE: Items with Appendix D that are highlighted have been added. All other terms and conditions remain as stated in the ITBC.

**REPLACE:**

**APPENDIX E SCHEDULE OF PRICING**

Replace Appendix E Schedule of Pricing with Appendix E Schedule of Pricing revised per this Addendum No. 3.

**QUESTIONS AND RESPONSES:**

- Q1. Form 12, Questionnaire is listed in two places. It is listed under Chapter 2 and again in Chapter 5. Will you please advise as to where you would like this questionnaire to be placed in the bid packet?**
- R1.** Form 12, Questionnaire is requested to be inserted in Chapter 5. However, Bidders will not be penalized for inserting Form 12, Questionnaire into Chapter 2. Section 2, Item 3 Bid Format has been revised per this Addendum No. 3.

- Q2. Detail 2 on Sheet S4.0 specifies the finish elevation of the new cap as 3.897 NAVD. This detail also represents the maximum 20" raised cap. Detail 1 on Sheet S4.1 details an alternate cap to be used when the existing cap is within 8" of proposed cap. For the purposes of competitively bidding this project, and securing the best possible price for the City, is there a survey available that lists the current elevations of the existing cap so that we the bidders can determine how much of detail 2 on Sheet S4.0 (the large cap extension) or how much of detail 1 on Sheet S4.1 (the small cap extension) we are to bid on? Please advise.**
- R2. Sheet S2.0 is a survey of the existing wall with spot elevations along the length of the wall. Sheet S2.0 includes all survey information on the existing wall.**
- Q3. Section 1, Item 9 Liability, Insurance, Permits and Licenses states a requirement for Contractors Liability (Errors & Omissions) Insurance. As this is not a Design/Build Project and we are not engineering any of the scope of work, is this insurance necessary?**
- R3. Yes, Contractors Liability Insurance is required for this project. However, the words "errors and emissions" have been deleted per this Addendum No. 3.**

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NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added. All other terms and conditions remain as stated in the ITBC.

### **End of Addendum**

#### **INSTRUCTIONS:**

Receipt of this addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the disqualification of Respondent's response.

# CITY PROJECT NO. 16-096



NOT TO SCALE

## PROJECT

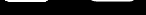
MAYOR  
VICE MAYOR  
DEPUTY VICE MAYOR  
COMMISSIONER  
CITY MANAGER  
DIRECTOR OF ENVIRONMENTAL

CARY GLICKSTEIN  
JORDANA L. JARJURA  
MITCHELL KATZ  
SHELLY PETROLIA  
NEAL DE JESUS  
JOHN MORGAN

S0.0	COVER SHEET
S1.0	GENERAL NOTES
S2.0	EXISTING SURVEY - OVERALL
S2.1	TEMPORARY REPAIRS
S3.0	PROPOSED PLAN - OVERALL
S3.1	PROPOSED END CONNECTION PLANS - OPTION 1
S3.2	PROPOSED END CONNECTION PLAN - OPTION 2
S4.0	TYPICAL SECTIONS
S4.1	TYPICAL SECTIONS
S4.2	TYPICAL SECTIONS
S4.3	TYPICAL SECTIONS
S4.4	SPLICE DETAILS
S4.5	TYPICAL SECTIONS



HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983,  
FLORIDA STATE PLANES, EAST ZONE, U.S. FEET (NAD83)



**WVGI**

2035 Vista Parkway  
West Palm Beach, FL 33411  
Phone No. 561.687.2220  
Fax No. 561.687.1110  
Cert No. 6091 - LB No. 7055

ENGINEERING // SURVEYING // ENVIRONMENTAL // PLANNING

ENGINEER OF RECORD  
TIMOTHY A. DeLAND  
PF# 71588

VETERANS PARK  
WGI NO.: 41011004.16

GENERAL NOTES

GENERAL SPECIFICATIONS:

2016 FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

DESIGN SPECIFICATION:

FLORIDA BUILDING CODE 2014 (FBC)  
ACI 318-05 BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE.

DESIGN LOADING:

LIVE LOAD = 100 PSF

MATERIAL STRESSES:

1. CONCRETE: SUBSTRUCTURE CLASS IV: MINIMUM 28 DAY STRENGTH:  $f'c$  5,500 PSI (PILE CAPS & WALL FASCIA)

2. REINFORCING STEEL: GRADE 60: 60,000 PSI (UON)

WIND DESIGN IN ACCORDANCE WITH ASCE 7-10:

VELOCITY<sub>ULT</sub> = 160 MPH (3 SEC.)  
VELOCITY<sub>ASD</sub> = 113 MPH (3 SEC.)  
RISK CATEGORY II  
EXPOSURE = D  
 $k_z$  = 1.03  
 $k_{ZF}$  = 1.0  
 $k_d$  = 0.85  
 $q_z$  = 28.6 PSF (SERVICE)

SEISMIC DESIGN DATA:

RISK CATEGORY  
 $I_e$  = 1.0  
 $S_s$  = 0.05  
 $S_I$  = 0.03  
SITE CLASS = D  
 $S_{DS}$  = 0.053  
 $S_{D1}$  = 0.048  
SEISMIC DESIGN CATEGORY = A  
 $R$  = 1.25  
 $C_s$  = 0.043  
 $V$  = 0.043W

GROUND SNOW LOAD = 0 PSF

FLOOD ZONE AE (EL. 7 NGVD)

CONCRETE NOTES:

1. MINIMUM CONCRETE COVER SHALL BE:  
SLAB: 2 1/2"  
BEAMS AND COLUMNS: 2"  
EXPOSED UNPROTECTED CONCRETE: 3"  
FORMED CONCRETE BELOW GRADE: 4"  
UNFORMED CONCRETE BELOW GRADE: 4 1/2"
2. CONCRETE CONSTRUCTION TECHNIQUES SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301-05).
3. PROVIDE 3/4 INCH CHAMFERS ON ALL EXPOSED EDGES AND CORNERS EXCEPT AS OTHERWISE NOTED.
4. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN WILL REQUIRE APPROVAL BY THE ENGINEER.

REINFORCEMENT:

1. REINFORCEMENT SHALL BE HOT DIPPED GALV. ASTM A615, GRADE 60.
2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
3. REINFORCEMENT DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.

REINFORCEMENT ALTERNATE:

NOTE TO CONTRACTOR: INCLUDE ALTERNATE BID WITH GFRP REINFORCING IN LIEU OF STANDARD REINFORCING. (TO BE BID AS ADD-ALTERNATE)

1. REINFORCING TO BE GLASS FIBER REINFORCED POLYMER (GFRP) PER FDOT STANDARD SPECIFICATION 973 AND ACI 440.1 R-06.
2. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
3. REINFORCEMENT DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS.
4. SUBMIT SHOP DRAWINGS WITH MANUFACTURERS HANDLING RECOMMENDATIONS.
5. GFRP BARS MAY NOT BE FIELD BENT.

PROJECT NOTES:

1. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD '88 DATUM. TO CONVERT TO NGVD '29 ADD 1.535' TO THE NGVD VALUE.
2. EXISTING LOCATIONS AND ELEVATIONS ARE BASED ON SURVEY BY: WGI, PROJECT NO. 41011004.16, DATED 08/31/2016.
3. CONTRACTOR WILL OPERATE WITH EXTREME CARE AND CAUTION AT AND AROUND UNDERGROUND & SUBAQUEOUS UTILITIES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFICATION OF EXISTING UTILITIES INCLUDING UNDERGROUND AND SUBAQUEOUS UTILITIES.
5. CONTRACTOR SHALL REMOVE ANY AND ALL DEBRIS AND RESTORE THE SITE TO ITS PRE-CONSTRUCTION CONDITION AFTER THE WORK IS COMPLETE.
6. ONLY LIGHT EQUIPMENT IS TO BE USED FOR BACK FILLING, COMPACTING, AND FINAL GRADING (E.G. BOBCAT AND HAND OPERATED COMPACTOR). MECHANICAL EQUIPMENT NOT TO COME IN CONTACT WITH NEW CAP.
7. CONTRACTOR REQUIRED TO PROVIDE VIBRATION MONITORING DURING ALL INSTALLATION OF PROPOSED PILES.
8. MONITOR EXISTING STRUCTURES IN ACCORDANCE WITH SECTION 108 OF THE STANDARD SPECS.
9. BOLTS TO BE SS316.

ENVIRONMENTAL NOTES:

1. THE CONTRACTOR SHALL INSTRUCT ALL PERSONNEL OF THE POTENTIAL PRESENCE OF PROTECTED MAMMALS, REPTILES AND BIRDS. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS AND CHAPTER 7-1.4 OF THE FDOT STANDARD SPECIFICATIONS FOR PROTECTED SPECIES.
2. SPECIFIC REQUIREMENTS FOR UNEXPECTED INTERACTION WITH CERTAIN PROTECTED SPECIES DURING WORK ACTIVITIES MAY BE FOUND AT:  
<http://www.dot.state.fl.us/programmanagement/Implemented/URLinSpecs/files/endangeredwildlifeguidelines.pdf>
3. THE CONTRACTOR SHALL LEGALLY DISPOSE OF SPOILS OFF SITE AND NOT IN THE INTRACOASTAL WATERWAY.

EROSION CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF SEDIMENTATION RUNOFF RESULTING FROM STORM EVENTS DURING THE CONSTRUCTION PHASE.
2. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO, MEASURES TO CONTROL TURBIDITY, CONTAINMENT AND DISPOSAL OF CONSTRUCTION DEBRIS, AND A SPILL CONTROL REPORTING PLAN.
3. EROSION CONTROL FACILITIES, SUCH AS HAY BALES, SILT SCREENS, FLOATING TURBIDITY BARRIERS, OR OTHER APPROVED METHODS AS REQUIRED, SHALL BE INSTALLED EARLY DURING THE CONSTRUCTION PERIOD SO AS TO PREVENT THE TRANSPORT OF SEDIMENT INTO THE INTRACOASTAL WATERWAY.

PILE DATA:

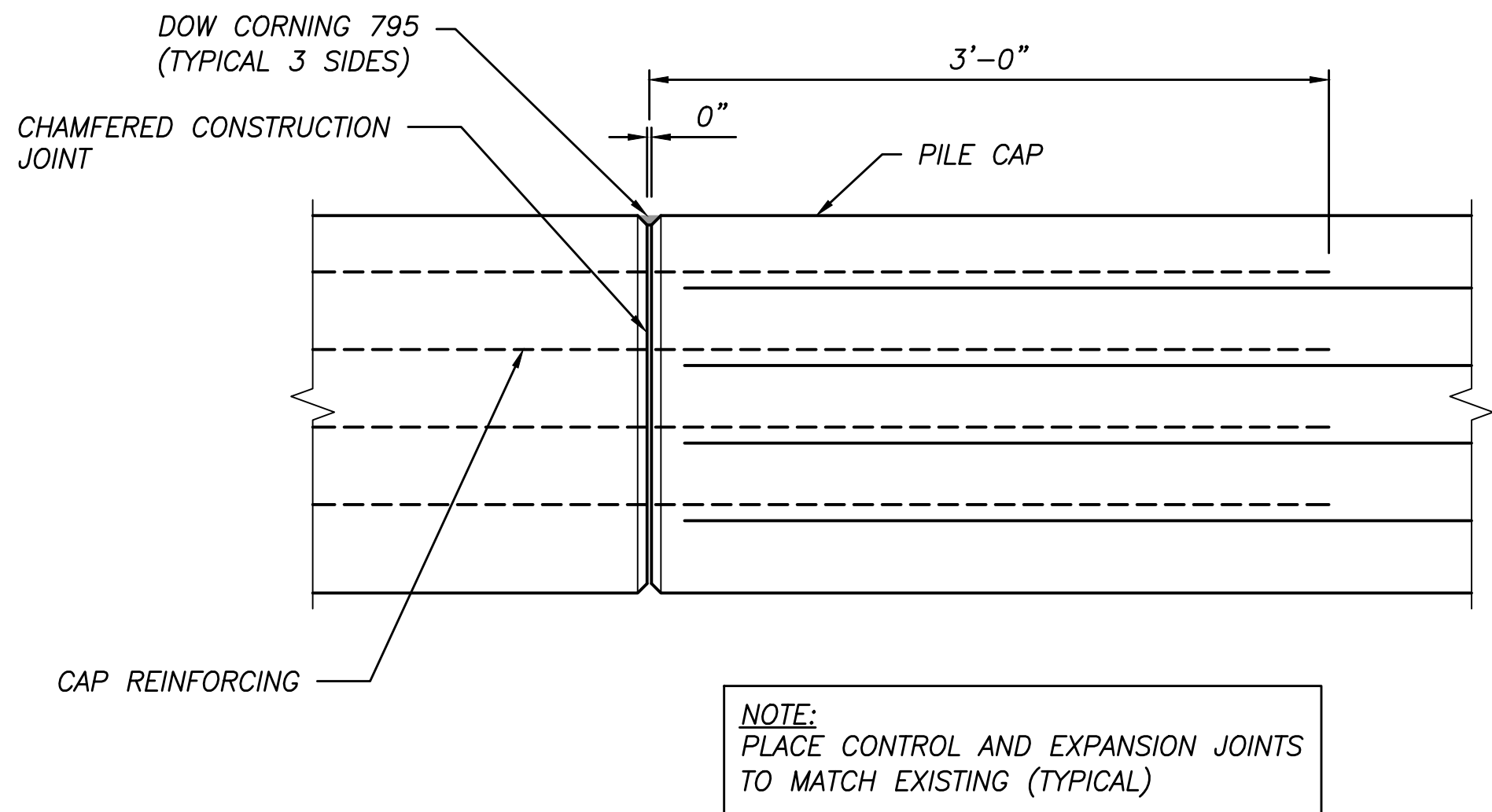
30 TON BEARING (SERVICE)  
15' MINIMUM EMBEDMENT

WOOD STRUCTURAL MEMBERS:

1. ACQ TREATED SOUTHERN YELLOW PINE (SYP NO. 1), TREATED WITH ACQ WITH A MINIMUM OF 0.25 POUNDS PER CUBIC FOOT. TIMBER IN CONTACT WITH EARTH SHALL BE 0.4 POUNDS PER CUBIC FOOT.  
FB = 1,200 PSI  
FV = 85 PSI  
E = 1,700,000 PSI
2. PLATE CONNECTION HARDWARE:  
STAINLESS STEEL 304 (SS304).
3. BOLTS:  
STAINLESS STEEL 316 (SS316).

LIST OF FREQUENTLY USED ABBREVIATIONS

ACI	-	AMERICAN CONCRETE INSTITUTE
ACQ	-	ALKALINE COPPER QUATERNARY
AISC	-	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	-	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	-	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	-	ALLOWABLE STRESS DESIGN
ASTM	-	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CAP	-	CORRUGATED ALUMINUM PIPE
CCA	-	CHROMATED COPPER ARSENATE
CIP	-	CAST-IN-PLACE
C/L, $\varnothing$	-	CENTERLINE
CLR	-	CLEAR
CMP	-	CORRUGATED METAL PIPE
CPP	-	CORRUGATED PLASTIC PIPE
DIA., $\varnothing$	-	DIAMETER
EL., ELEV.	-	ELEVATION
EMBED	-	EMBEDMENT
EQ.	-	EQUAL
EX., EXIST.	-	EXISTING
FAC	-	FLORIDA ADMINISTRATIVE CODE
FBC	-	FLORIDA BUILDING CODE
FDOT	-	FLORIDA DEPARTMENT OF TRANSPORTATION
FRP	-	FIBER REINFORCED POLYMER
FT	-	FOOT
GALV	-	GALVANIZED
GFRP	-	GLASS FIBER REINFORCED POLYMER
GR	-	GRADE
INV.	-	INVERT
KSI	-	KILOPOUNDS PER SQUARE INCH
LB(S)	-	POUND(S)
LF	-	LINEAR FEET
LRFD	-	LOAD RESISTANCE FACTOR DESIGN
MAX.	-	MAXIMUM
MIN.	-	MINIMUM
NAVD '88	-	NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD '29	-	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NTS	-	NOT TO SCALE
O.C.	-	ON CENTER
O.D.	-	OUTSIDE DIAMETER
PCF	-	PER CUBIC FOOT
PCI	-	PER CUBIC INCH
PL, $\varnothing$	-	PLATE
PSF	-	PER SQUARE FOOT
PSI	-	PER SQUARE INCH
RCP	-	REINFORCED CONCRETE PIPE
R/W	-	RIGHT OF WAY
SEC	-	SECONDS
SHW	-	SEASONAL HIGH WATER
SIM	-	SIMILAR
SPA	-	SPACING, SPACES
SYP	-	SOUTHERN YELLOW PINE
TYP	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED



1 TYPICAL SEAWALL CAP CONSTRUCTION JOINT DETAIL  
S1.0 NOT TO SCALE



CITY of DELRAY BEACH  
ENVIRONMENTAL SERVICES DEPARTMENT

434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444

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PREPARED BY:



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Cert No. 6091 - LB No. 7055

ENGINEERING // SURVEYING // ENVIRONMENTAL // PLANNING

ENGINEER'S SEAL

TIMOTHY A. DeLAND  
P.E., LIC. NO. 71588

DESIGNED BY TAD  
DRAWN BY DAM  
CHECKED BY TAD

DATE SEPTEMBER 2016

REVISION DATE DESCRIPTION

BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK

GENERAL NOTES

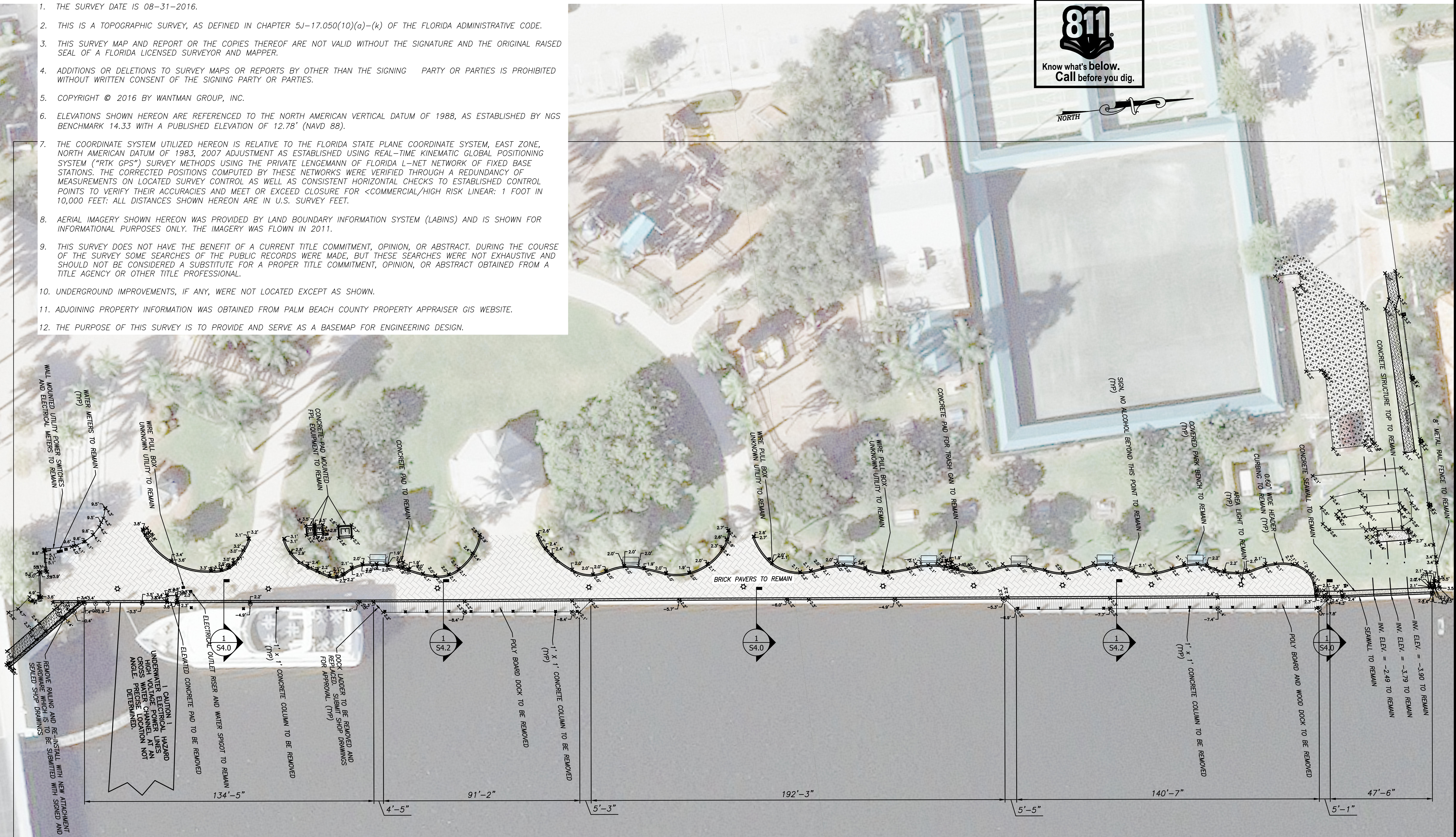
PROJECT NO.  
41011004.16

SHEET NO.

S1.0 OF 12

FILE ID.

1. THE SURVEY DATE IS 08-31-2016.
2. THIS IS A TOPOGRAPHIC SURVEY, AS DEFINED IN CHAPTER 5J-17.050(10)(a)-(k) OF THE FLORIDA ADMINISTRATIVE CODE.
3. THIS SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
4. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
5. COPYRIGHT © 2016 BY WANTMAN GROUP, INC.
6. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, AS ESTABLISHED BY NGS BENCHMARK 14.33 WITH A PUBLISHED ELEVATION OF 12.78' (NAVD 88).
7. THE COORDINATE SYSTEM UTILIZED HEREON IS RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983, 2007 ADJUSTMENT AS ESTABLISHED USING REAL-TIME KINEMATIC GLOBAL POSITIONING SYSTEM ("RTK GPS") SURVEY METHODS USING THE PRIVATE LENGEMANN OF FLORIDA L-NET NETWORK OF FIXED BASE STATIONS. THE CORRECTED POSITIONS COMPUTED BY THESE NETWORKS WERE VERIFIED THROUGH A REDUNDANCY OF MEASUREMENTS ON LOCATED SURVEY CONTROL AS WELL AS CONSISTENT HORIZONTAL CHECKS TO ESTABLISHED CONTROL POINTS TO VERIFY THEIR ACCURACIES AND MEET OR EXCEED CLOSURE FOR <COMMERCIAL/HIGH RISK LINEAR: 1 FOOT IN 10,000 FEET; ALL DISTANCES SHOWN HEREON ARE IN U.S. SURVEY FEET.
8. AERIAL IMAGERY SHOWN HEREON WAS PROVIDED BY LAND BOUNDARY INFORMATION SYSTEM (LABINS) AND IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE IMAGERY WAS FLOWN IN 2011.
9. THIS SURVEY DOES NOT HAVE THE BENEFIT OF A CURRENT TITLE COMMITMENT, OPINION, OR ABSTRACT. DURING THE COURSE OF THE SURVEY SOME SEARCHES OF THE PUBLIC RECORDS WERE MADE, BUT THESE SEARCHES WERE NOT EXHAUSTIVE AND SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR A PROPER TITLE COMMITMENT, OPINION, OR ABSTRACT OBTAINED FROM A TITLE AGENCY OR OTHER TITLE PROFESSIONAL.
10. UNDERGROUND IMPROVEMENTS, IF ANY, WERE NOT LOCATED EXCEPT AS SHOWN.
11. ADJOINING PROPERTY INFORMATION WAS OBTAINED FROM PALM BEACH COUNTY PROPERTY APPRAISER GIS WEBSITE.
12. THE PURPOSE OF THIS SURVEY IS TO PROVIDE AND SERVE AS A BASEMAP FOR ENGINEERING DESIGN.

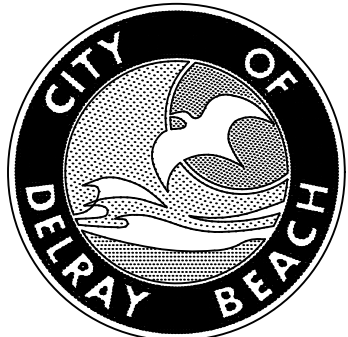


1  
S2.0

EXISTING SURVEY - OVERALL

20 10 0 20

GRAPHIC SCALE IN FEET



**CITY of DELRAY BEACH**  
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ENGINEER'S SEAL  
TIMOTHY A. DeLAND  
P.E., LIC. NO. 71588

DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
EXISTING SURVEY - OVERALL

PROJECT NO.  
41011004.16  
SHEET NO.  
S2.0 OF 12  
FILE ID.

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GRAPHIC SCALE IN FEET

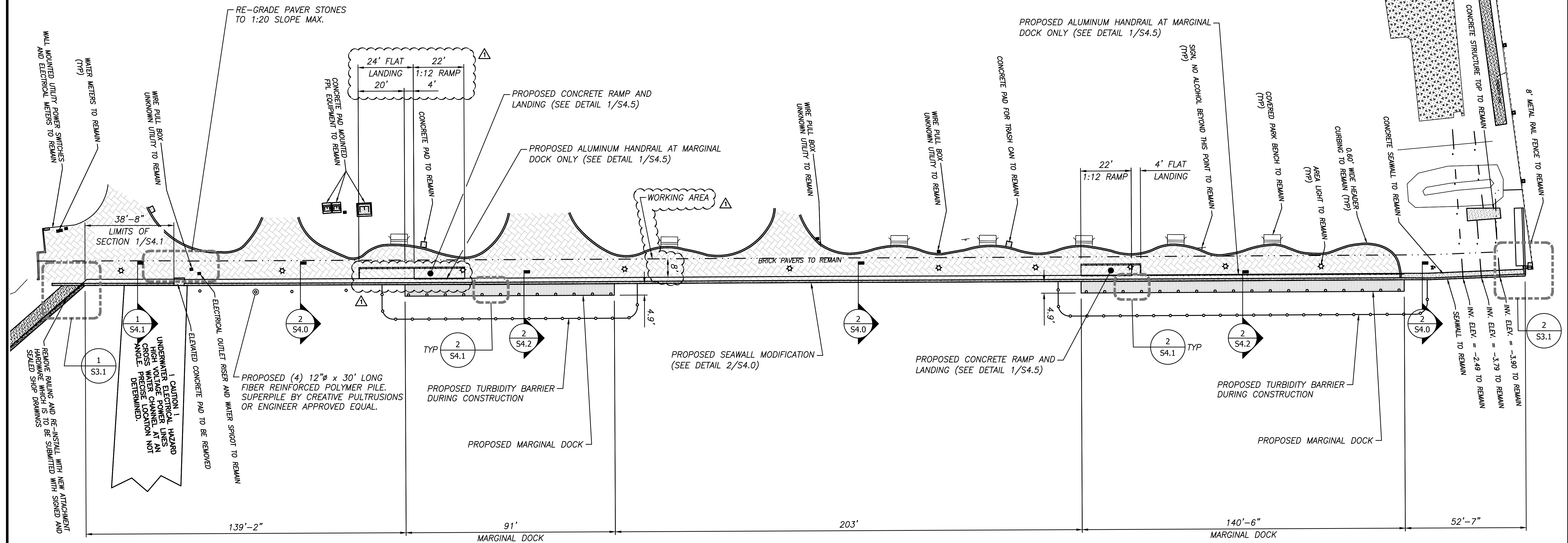
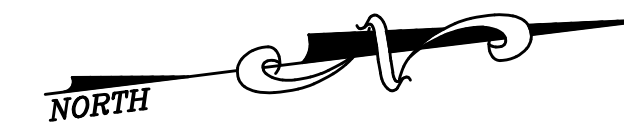


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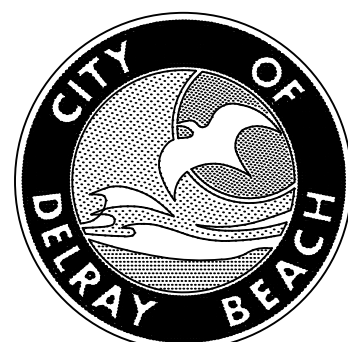
CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
TEMPORARY REPAIRS

FILE ID.
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- BIDDERS NOTES:
1. REPLACE ALL EXISTING LADDERS. SUBMIT SHOP DRAWINGS.
  2. REPLACE ALL CLEATS ON MARGINAL DOCKS. SUBMIT SHOP DRAWINGS.
  3. RE-USE HEAVY CLEATS ON CONCRETE CAP.
  4. REMOVE AND SQUARE OFF ANY EXISTING DAMAGED CONCRETE.
  5. ADD ALTERNATE: CHEMICAL GROUT BEHIND EACH JOINT WITH PRIME FLEX 920 BY PRIME RESINS OR ENGINEER APPROVED EQUAL. GROUT TO BE 2' MIN. BELOW EXISTING MUDLINE.

1 PROPOSED PLAN - OVERALL



Phone: (561) 243-7322 Fax: (561) 243-7314 [www.mydelraybeach.com](http://www.mydelraybeach.com)



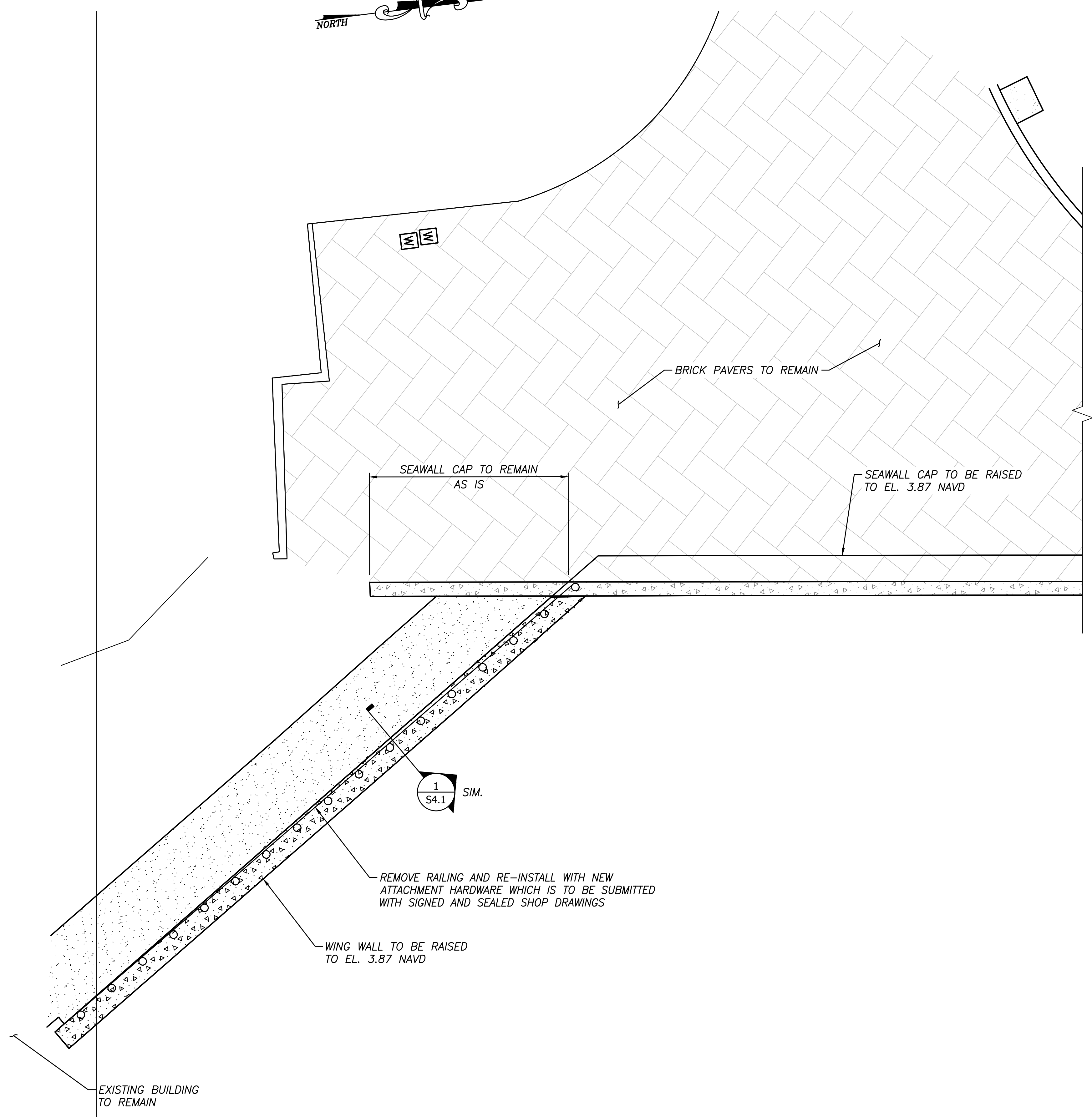
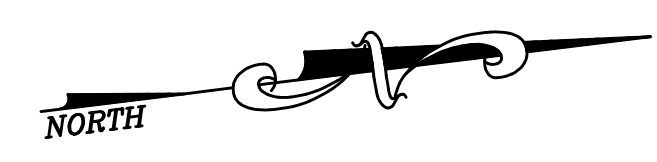
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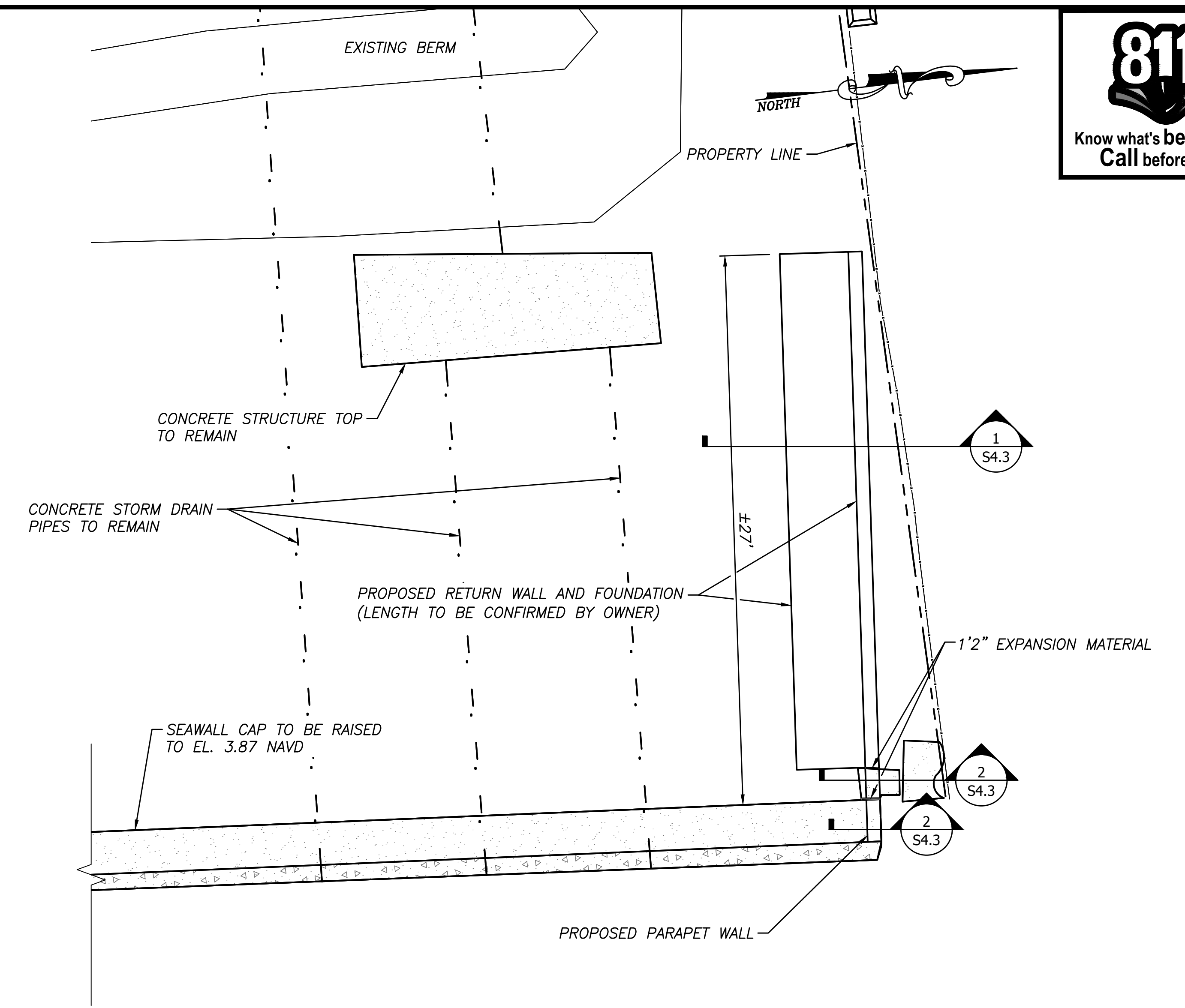
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## PROPOSED PLAN – OVERALL

FILE ID.
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1  
S3.1  
PROPOSED SOUTH END CONNECTION PLAN



2  
S3.1  
PROPOSED NORTH END CONNECTION PLAN  
OPTION 1 - RETURN WALL



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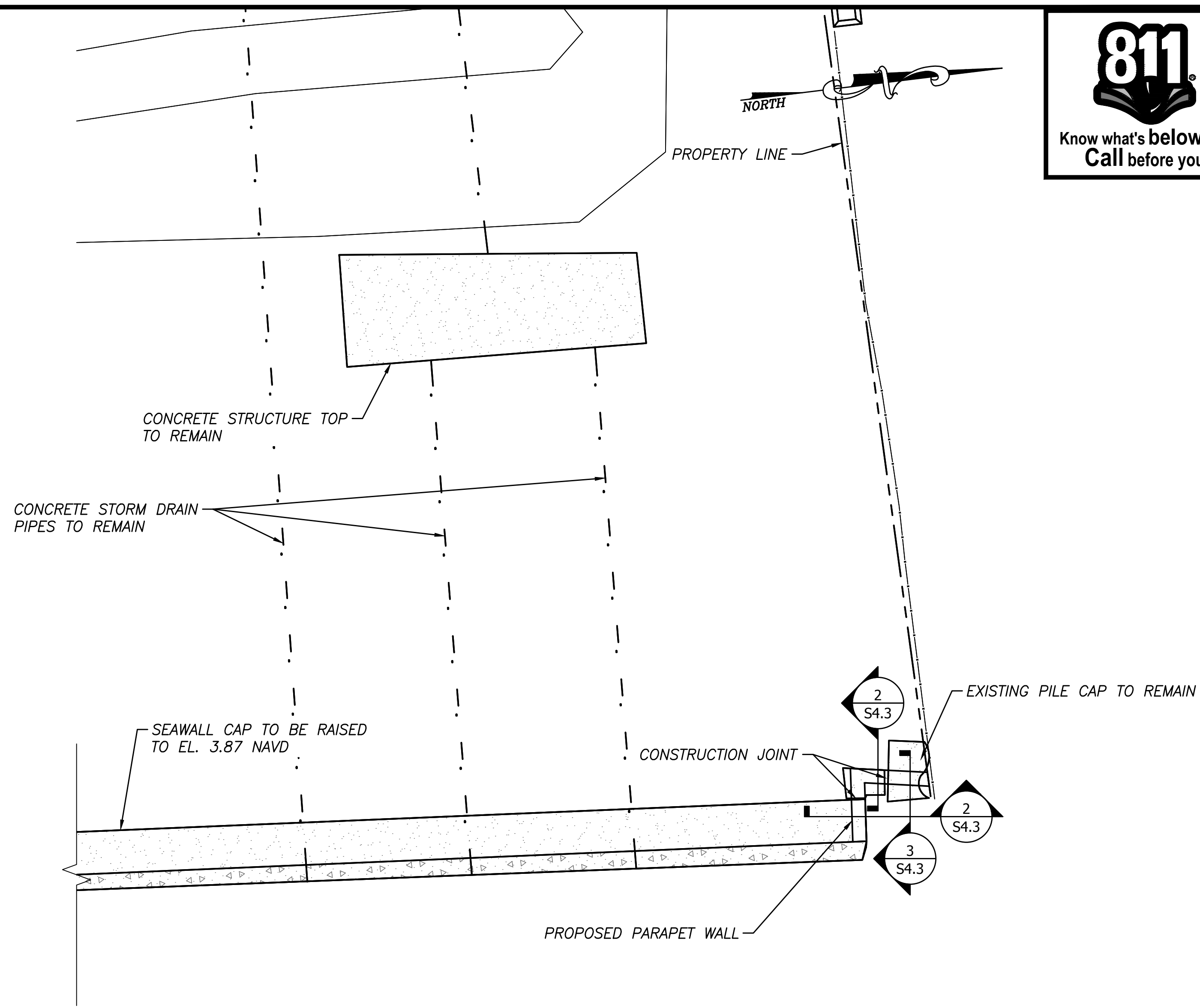
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DRAWN BY	DAM				
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DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
PROPOSED END CONNECTION PLANS -  
OPTION 1

PROJECT NO.  
41011004.16  
SHEET NO.  
S3.1 OF 12  
FILE ID.



1  
S3.2

PROPOSED NORTH END CONNECTION PLAN  
OPTION 2 - PARAPET CLOSURE

4 2 0 4  
GRAPHIC SCALE IN FEET



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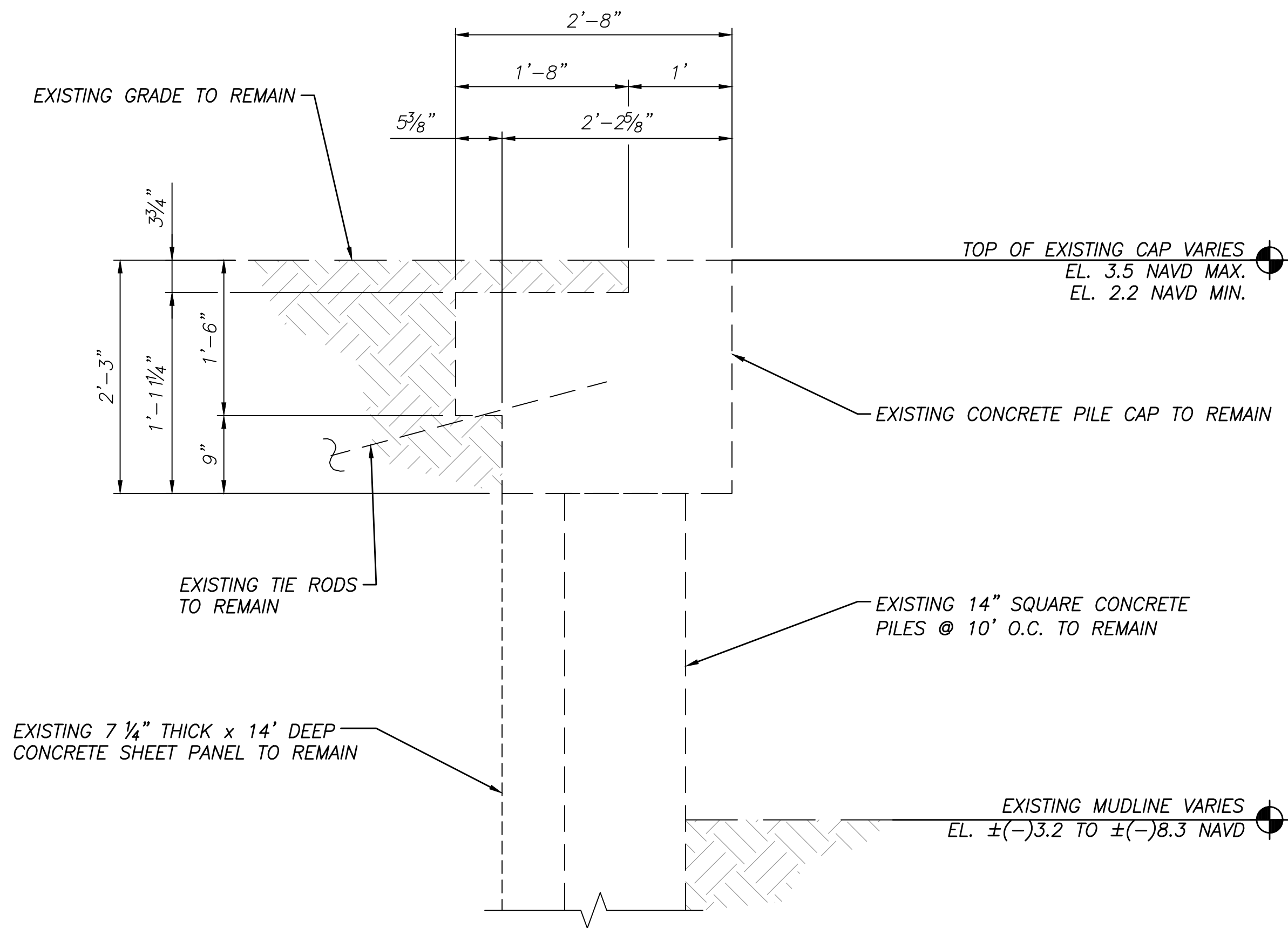
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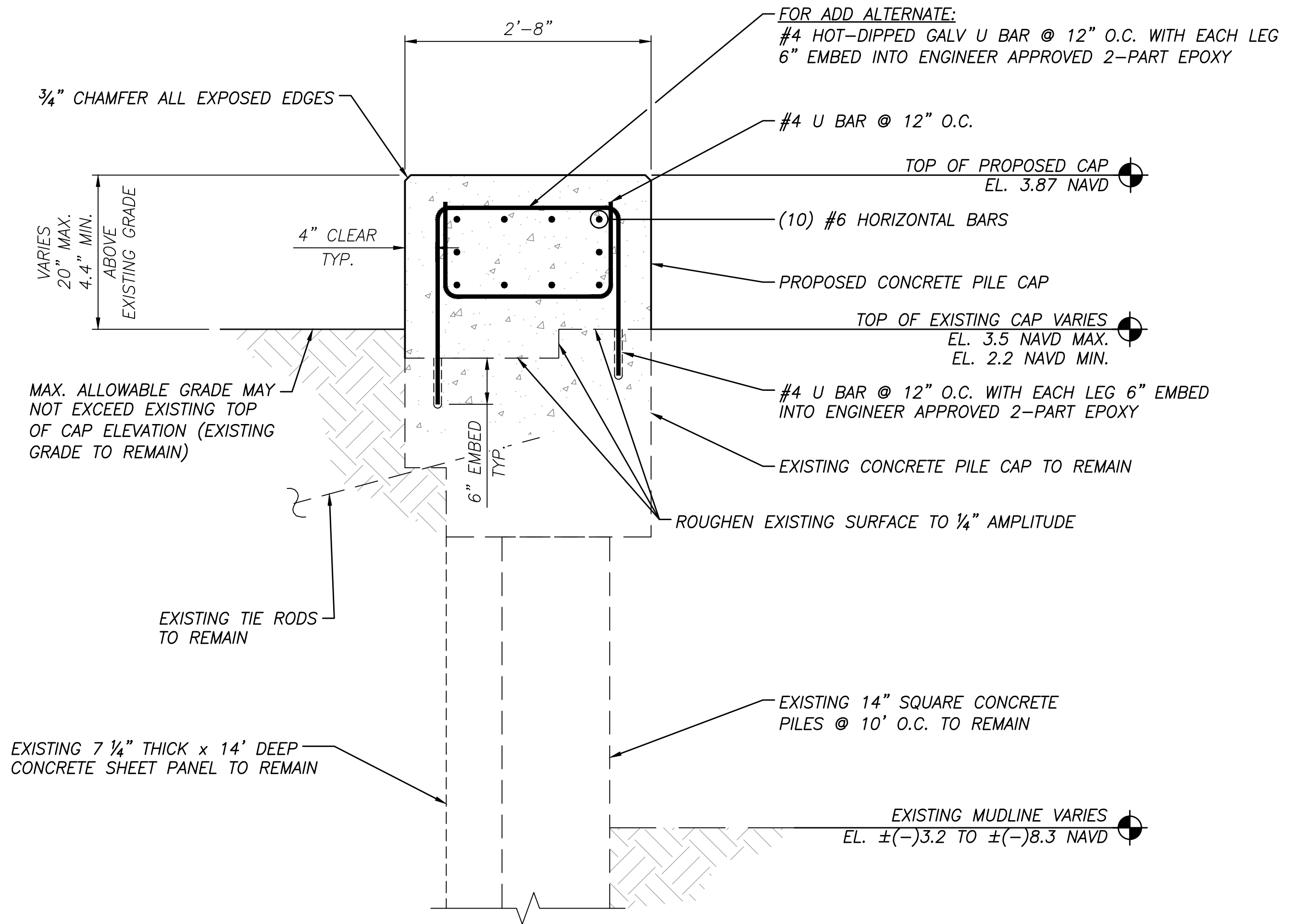
DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
  
PROPOSED END CONNECTION PLAN -  
OPTION 2

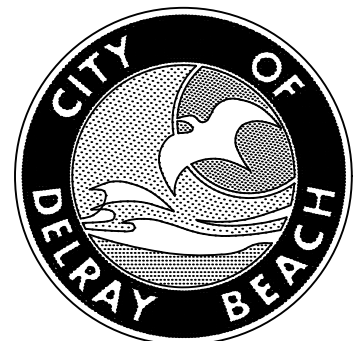
PROJECT NO.  
41011004.16  
SHEET NO.  
**S3.2 OF 12**  
FILE ID.



1 EXISTING TYPICAL SEAWALL CAP  
S4.0  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



2 PROPOSED TYPICAL SEAWALL CAP  
S4.0  
1 0.5 0 1  
GRAPHIC SCALE IN FEET  
ADD ALTERNATE  
REPLACE REINFORCING WITH FRP, UON



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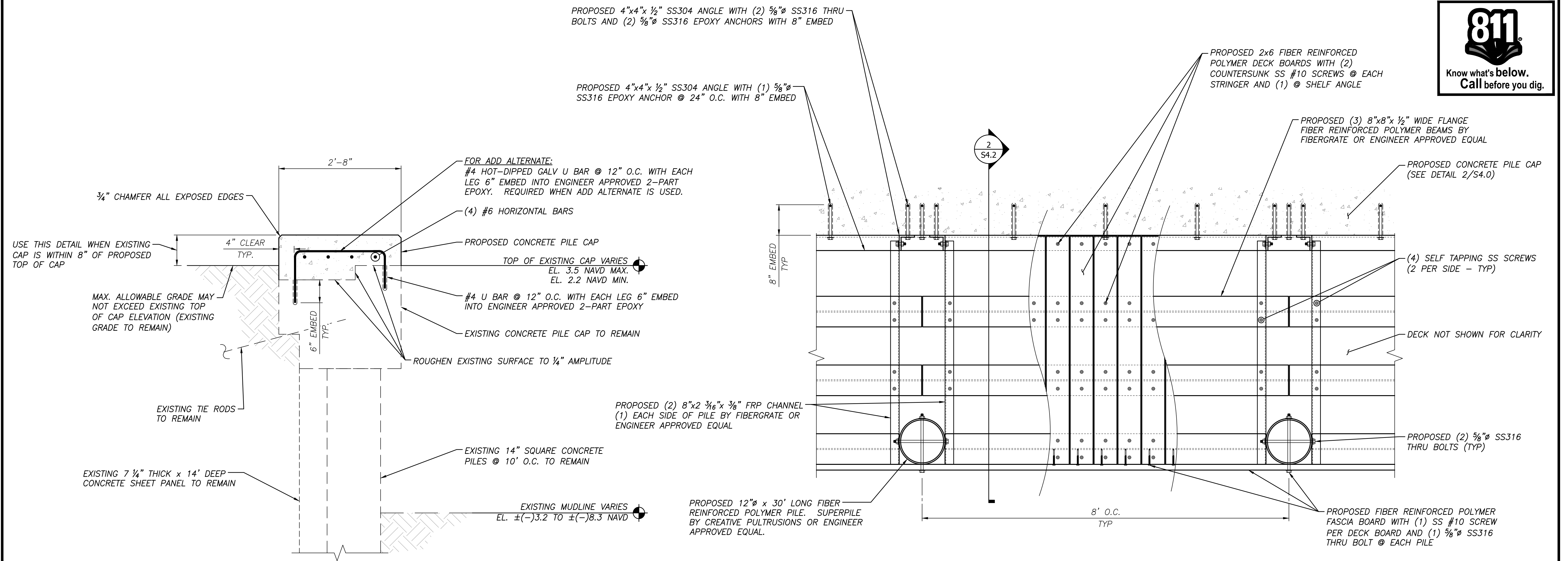
PREPARED BY:  
**WGI**  
2035 Vista Parkway  
West Palm Beach, FL 33411  
Phone No. 561.687.2220  
Fax No. 561.687.1110  
Cert No. 6091 · LB No. 7055  
ENGINEERING // SURVEYING // ENVIRONMENTAL // PLANNING

ENGINEER'S SEAL  
TIMOTHY A. DeLAND  
P.E., LIC. NO. 71588

DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

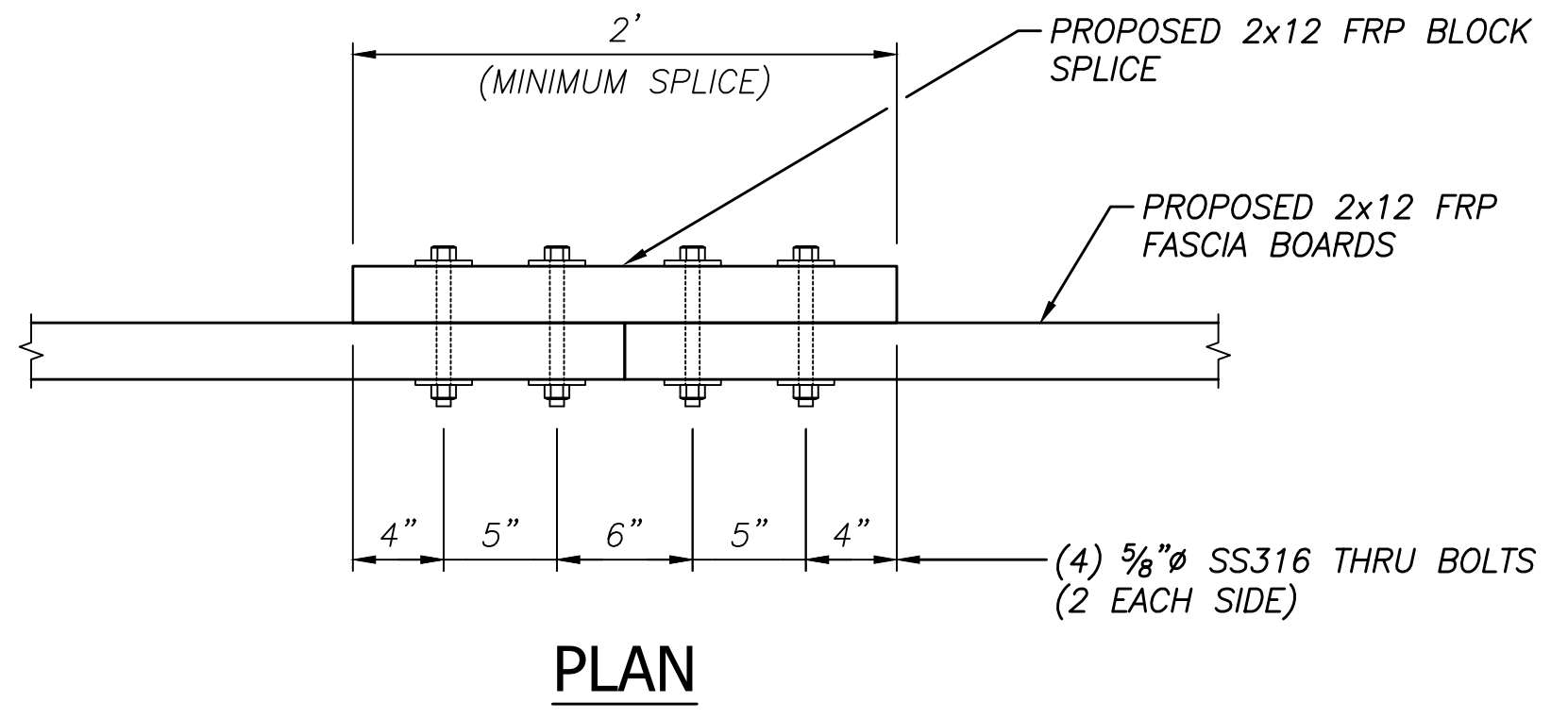
CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
TYPICAL SECTIONS

PROJECT NO.  
41011004.16  
SHEET NO.  
S4.0 OF 12  
FILE ID.

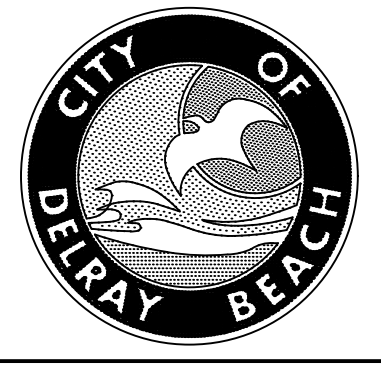


1 RAISED EXISTING CAP SEAWALL DETAIL  
S4.1  
1 0.5 0 1  
GRAPHIC SCALE IN FEET

2 PROPOSED EXPANDED PLAN (TYPICAL)  
S4.1  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



3 PROPOSED FASCIA BOARD SPLICE (TYPICAL) BETWEEN PILES AS NEEDED  
S4.1  
NOT TO SCALE



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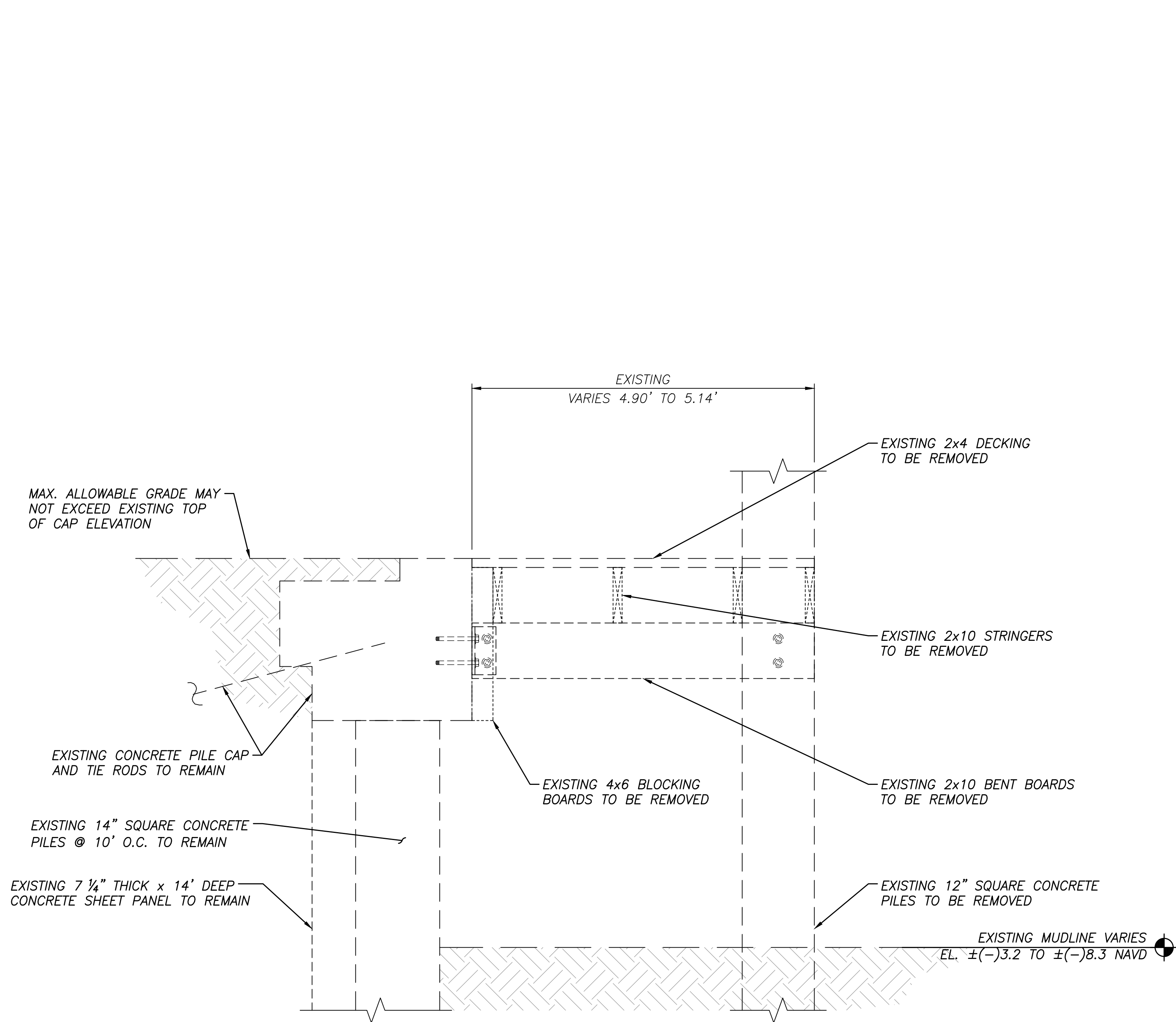
DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
TYPICAL SECTIONS

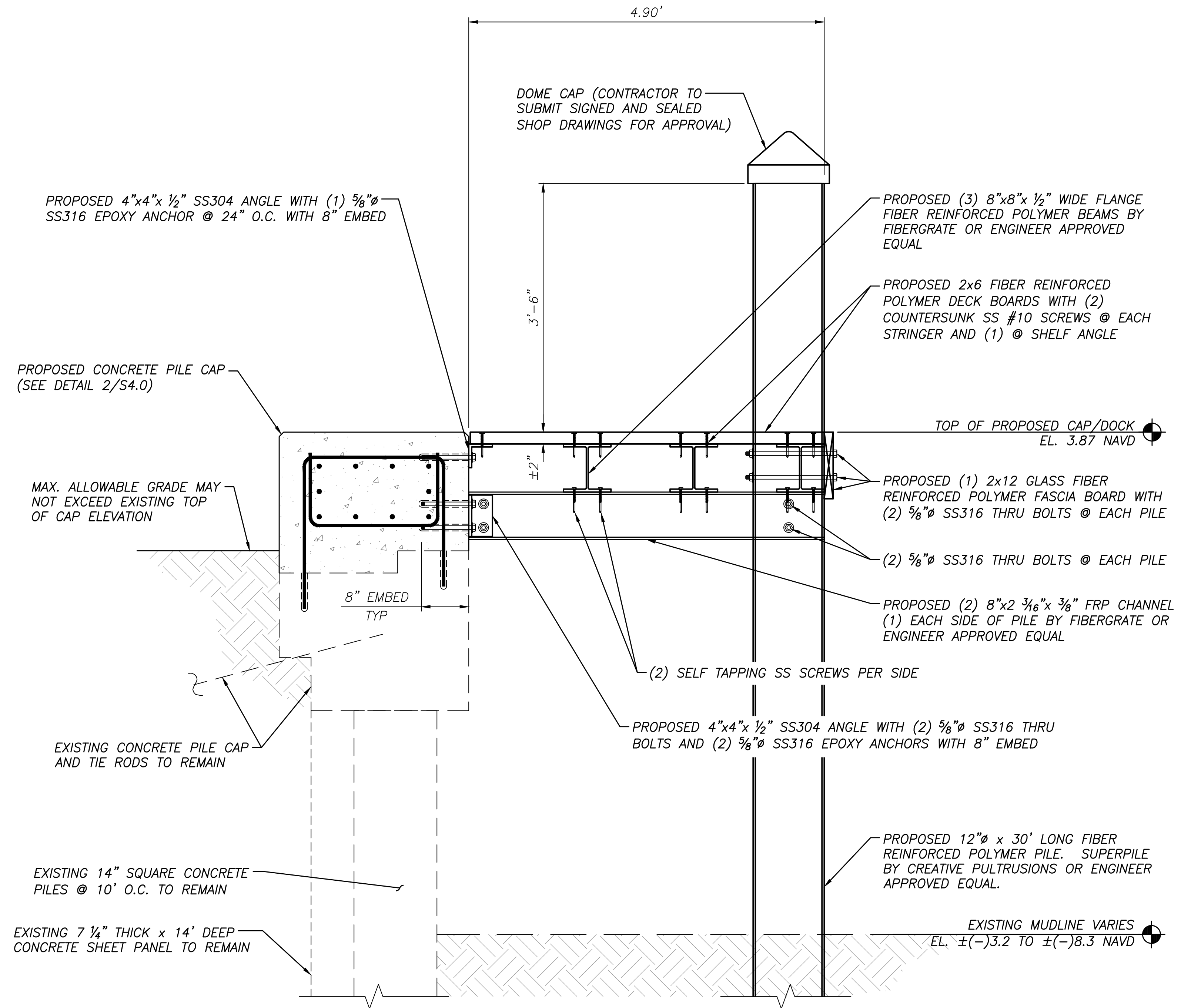
PROJECT NO.	41011004.16
SHEET NO.	S4.1 OF 12
FILE ID.	



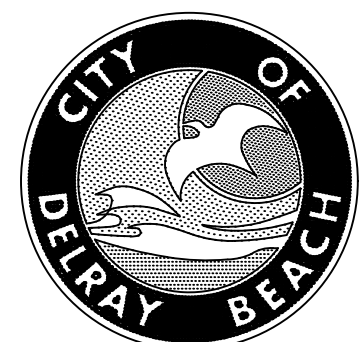
Know what's below.  
Call before you dig.



1 EXISTING TYPICAL MARGINAL DOCK DETAIL  
S4.2  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



2 PROPOSED TYPICAL MARGINAL DOCK DETAIL  
S4.2  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



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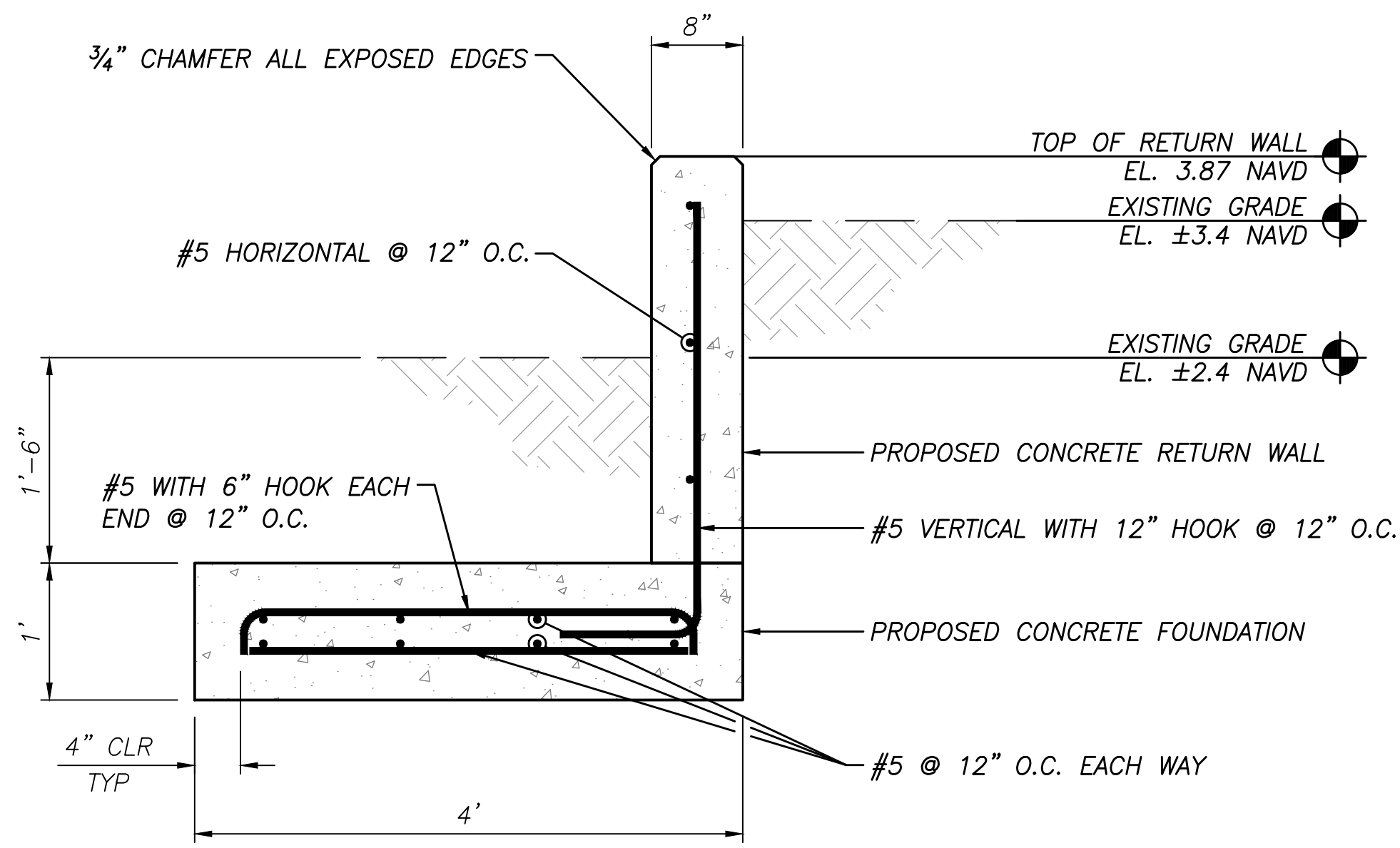
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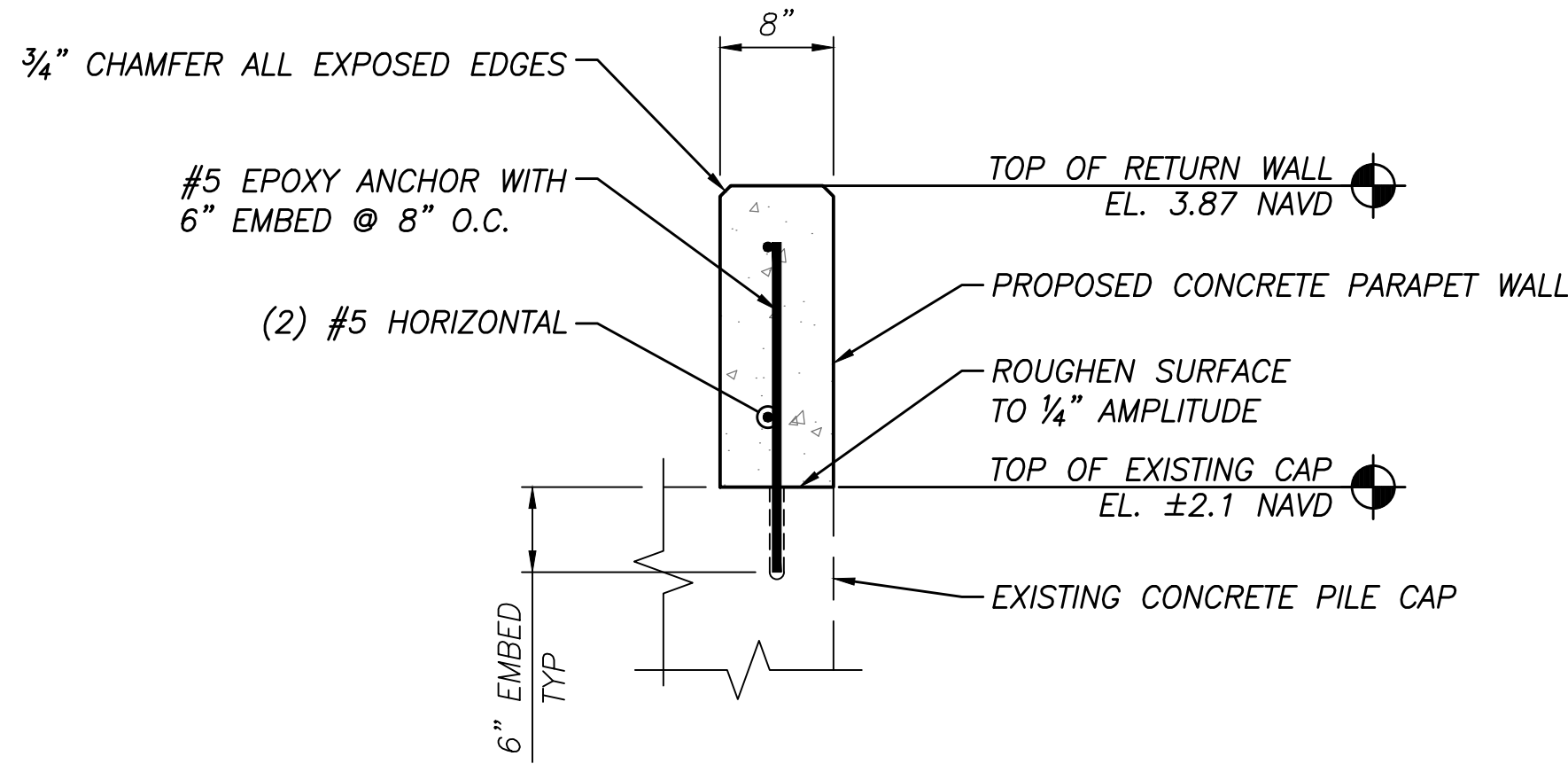
DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
TYPICAL SECTIONS

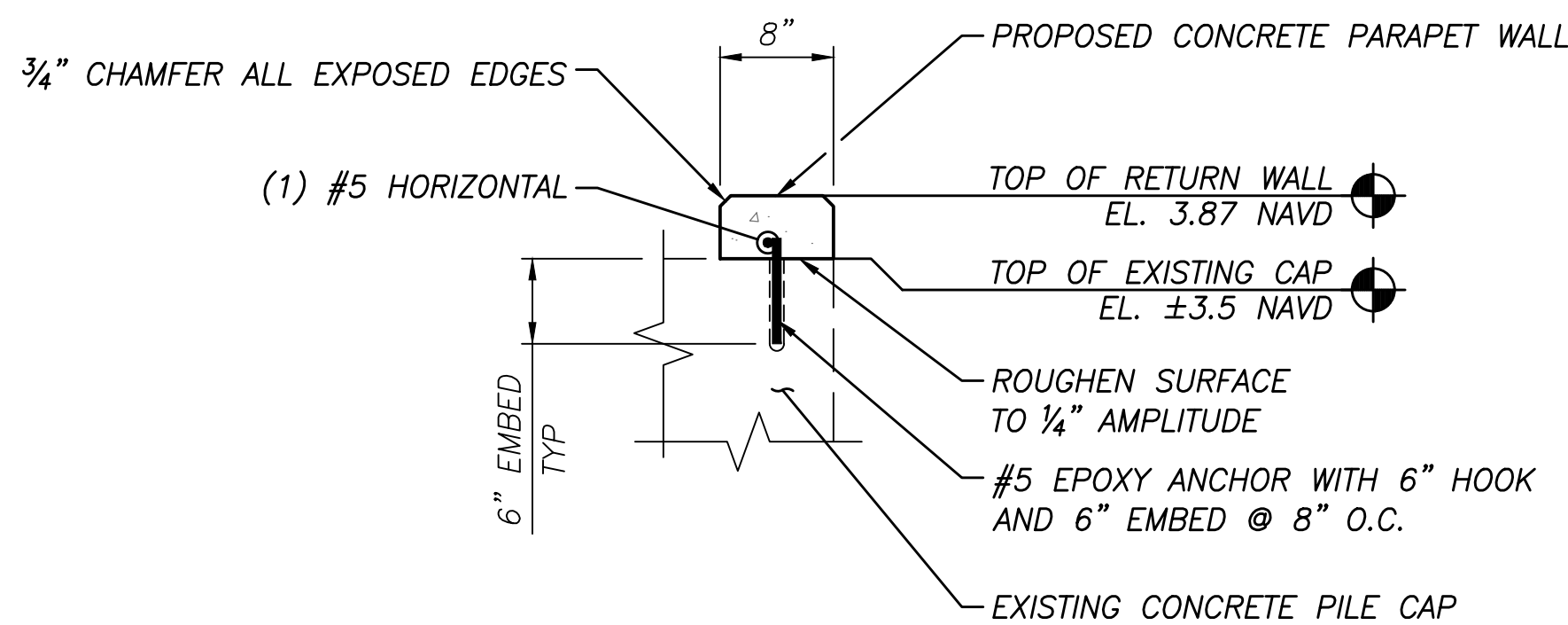
PROJECT NO.  
41011004.16  
SHEET NO.  
S4.2 OF 12  
FILE ID.



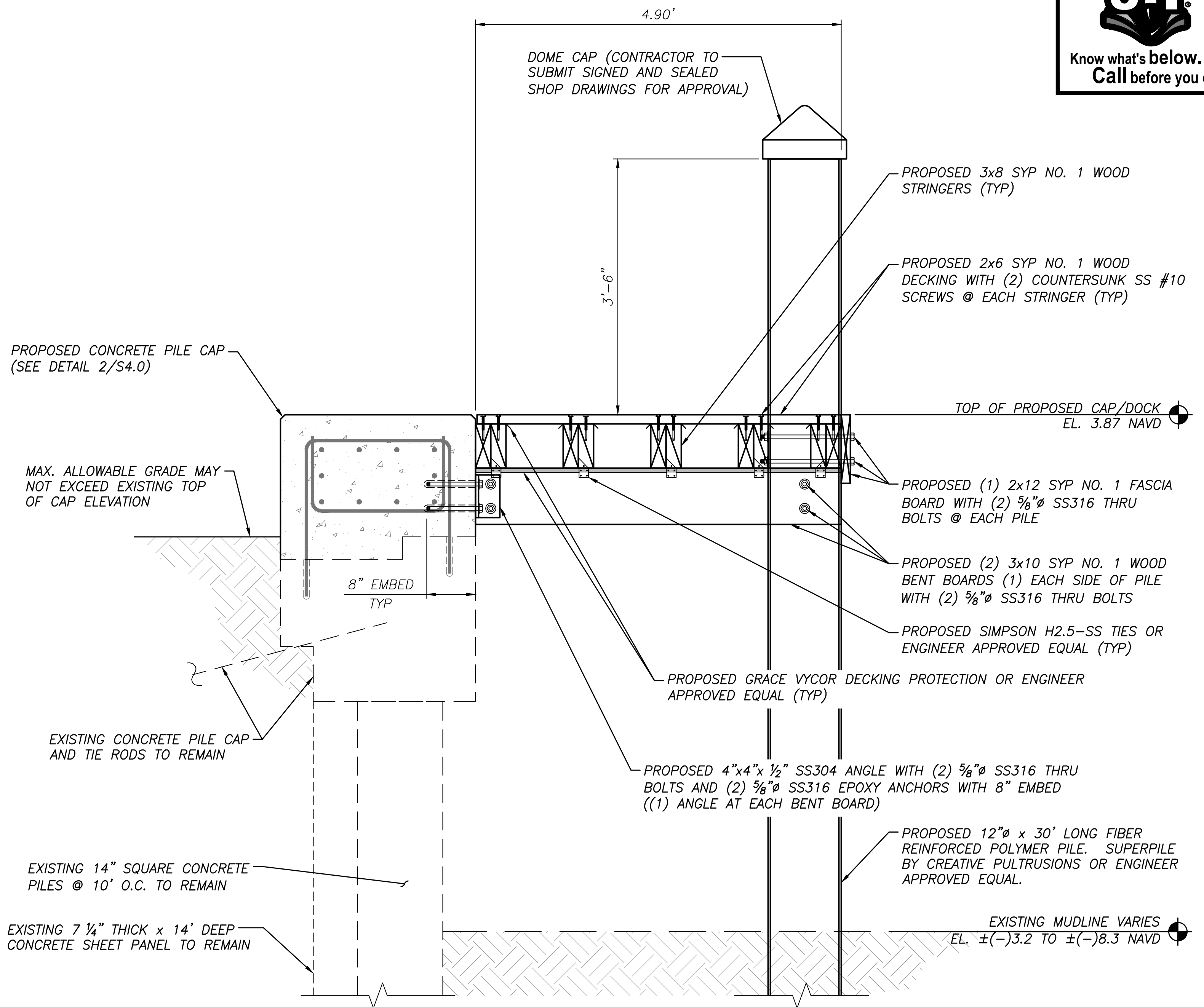
1 RETURN WALL TYPICAL SECTION  
S4.3  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



2 PARAPET WALL AT END OF PILE CAP  
S4.3  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



3 PARAPET WALL AT END OF PILE CAP  
S4.3  
1 0.5 0 1  
GRAPHIC SCALE IN FEET



4 PROPOSED WOOD MARGINAL DOCK DETAIL  
ADD ALTERNATE  
S4.3  
1 0.5 0 1  
GRAPHIC SCALE IN FEET

NOTE:  
BID 4/S4.3 AS ADD ALTERNATE TO FRP MARGINAL DOCK



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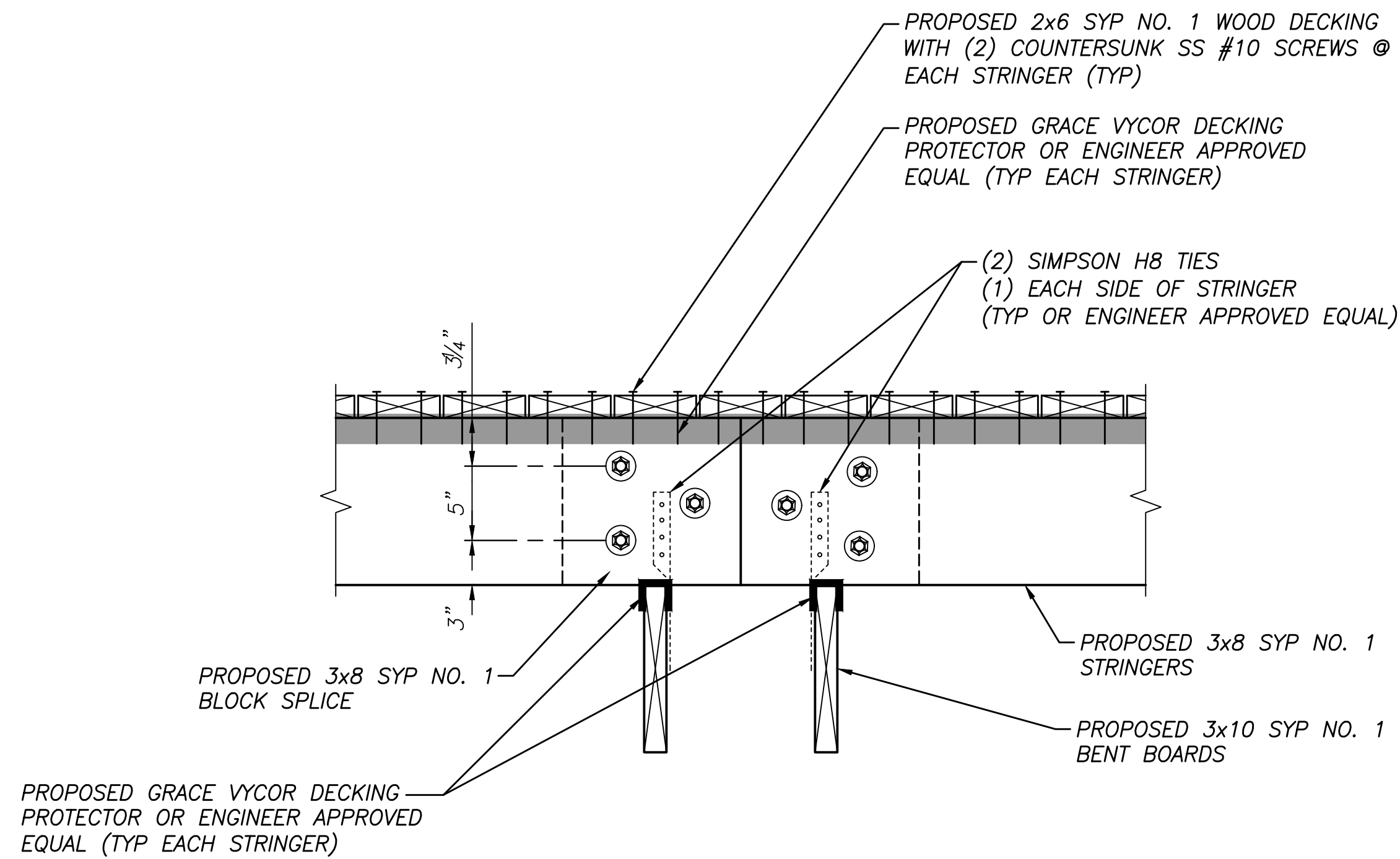
DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
TYPICAL SECTIONS

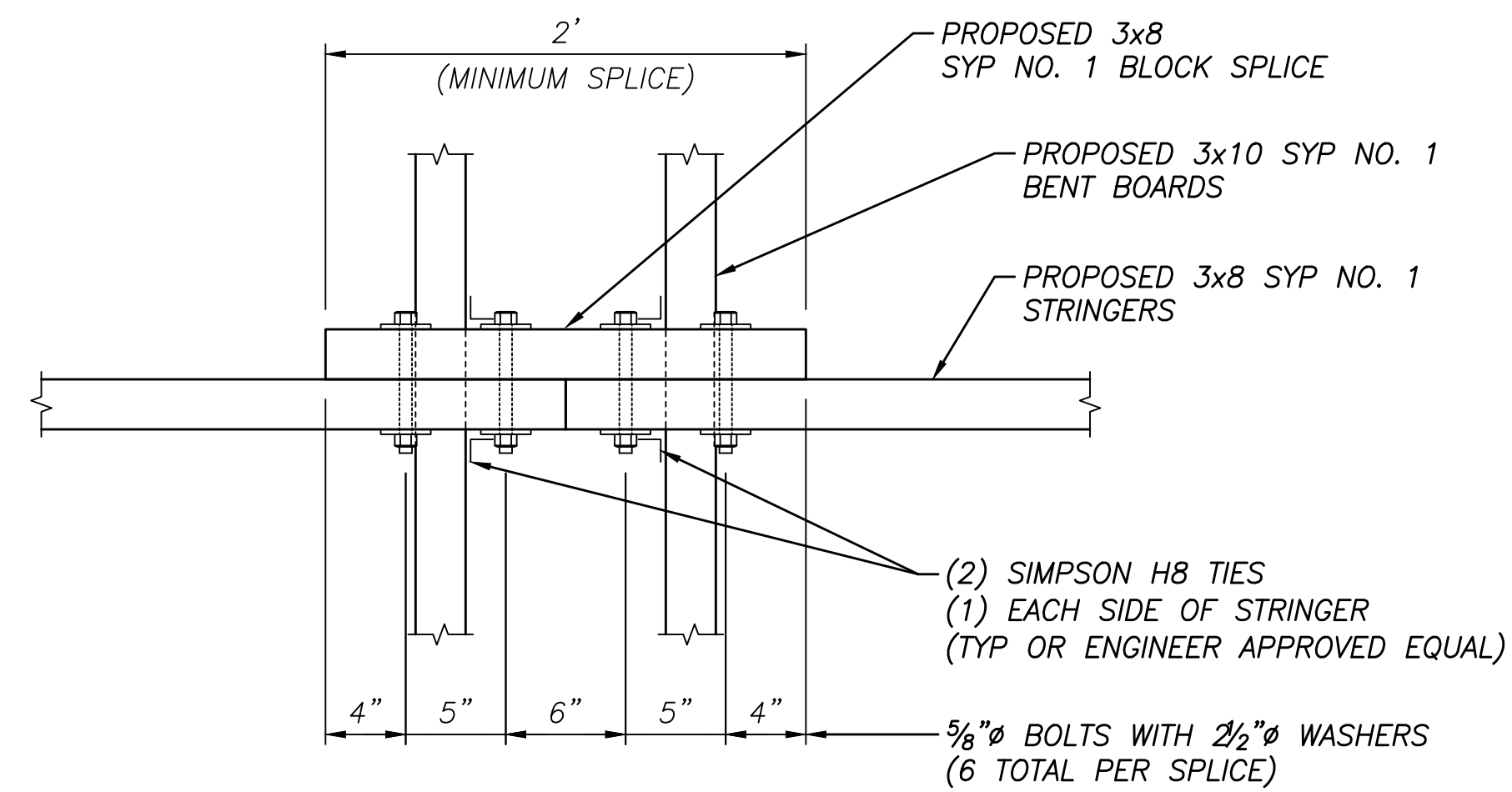
PROJECT NO.  
41011004.16  
SHEET NO.  
S4.3 OF 12  
FILE ID.



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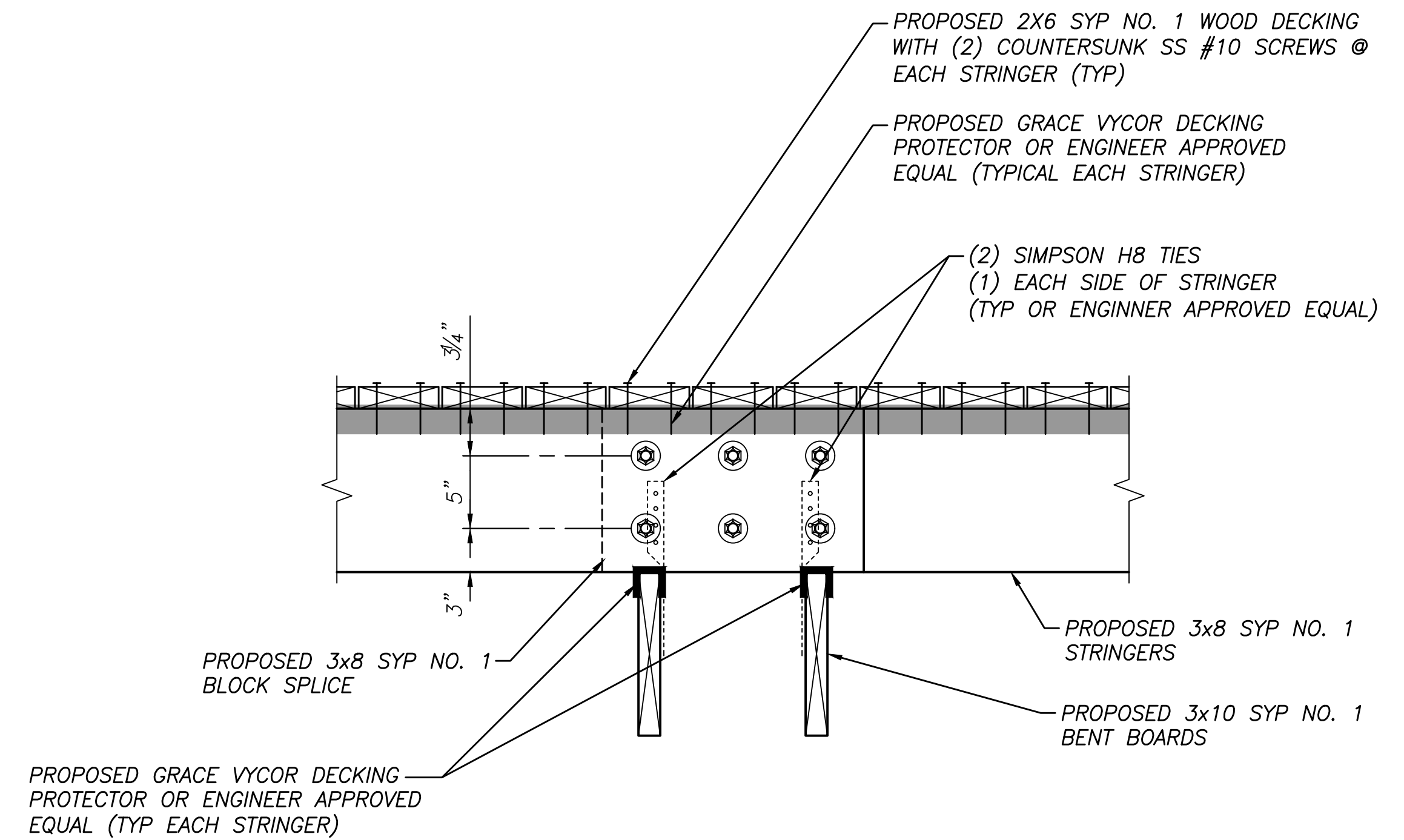


ELEVATION

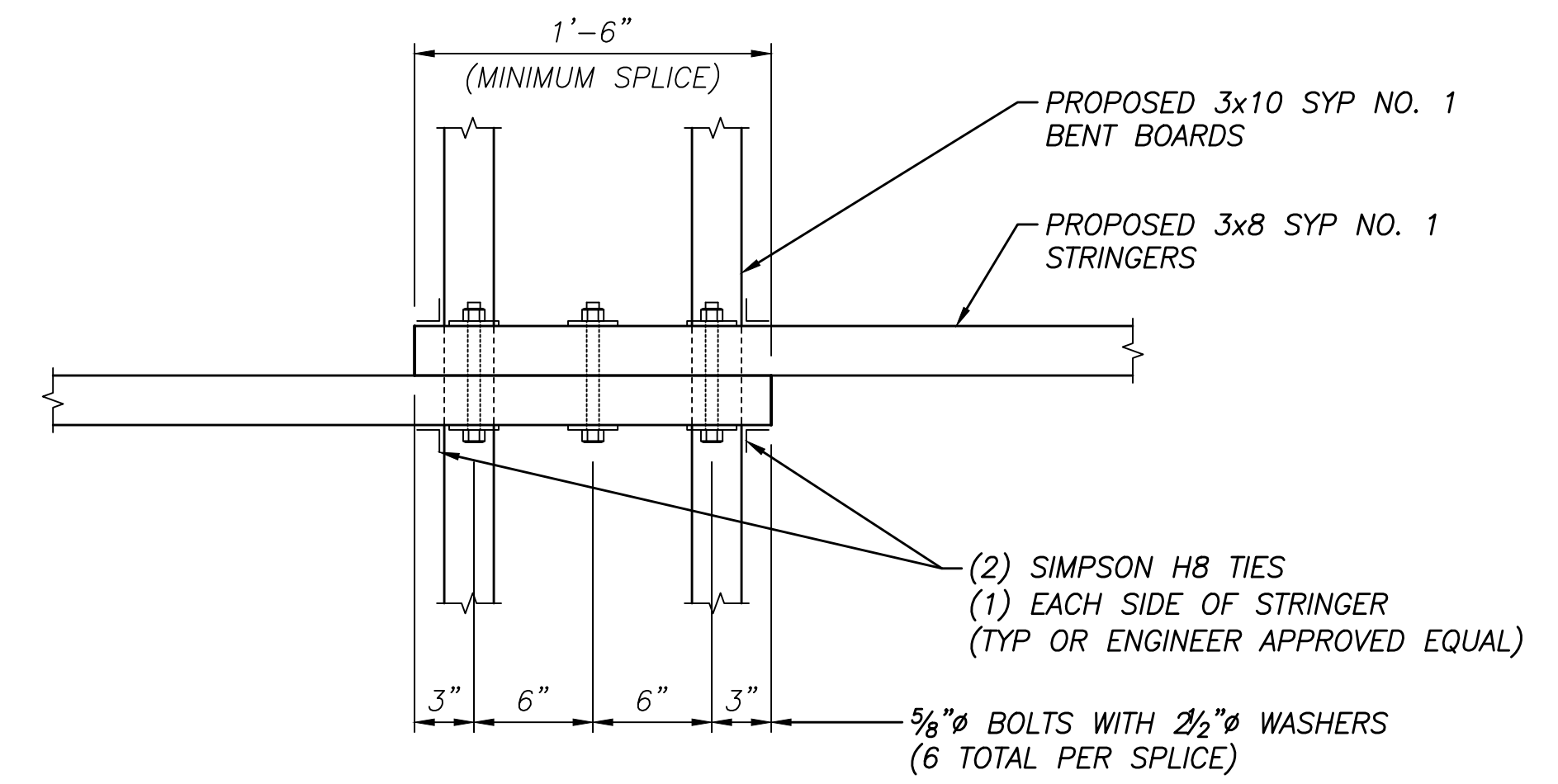


PLAN

1 TYPICAL OUTSIDE STRINGER SPLICE AT BENT DETAIL  
S4.4 NOT TO SCALE



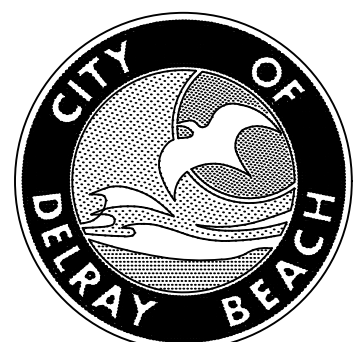
ELEVATION



PLAN

2 TYPICAL INSIDE STRINGER SPLICE AT BENT DETAIL  
S4.4 NOT TO SCALE

FOR ADD ALTERNATE



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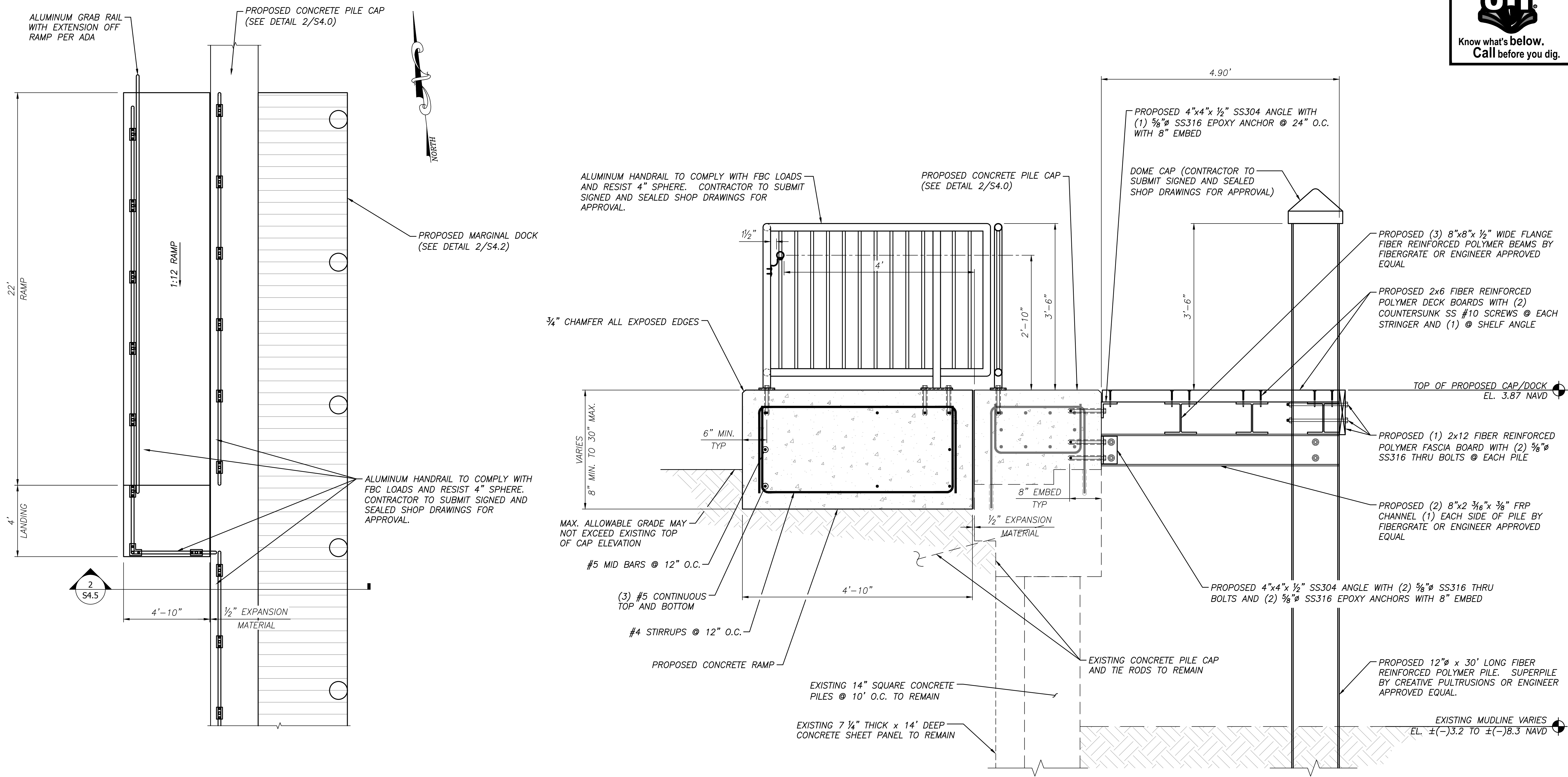
PREPARED BY:  
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DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
SPLICE DETAILS

PROJECT NO.  
41011004.16  
SHEET NO.  
S4.4 OF 12  
FILE ID.



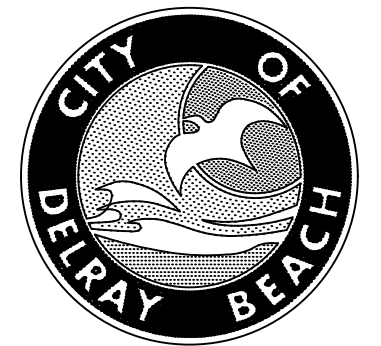
**1**  
S4.5  
**PROPOSED NORTH RAMP AT MARGINAL DOCK PLAN VIEW**

2 1 0 2  
GRAPHIC SCALE IN FEET

NOTE:  
SOUTH RAMP SIMILAR. SEE PLAN FOR DIMENSIONS.

**2**  
S4.5  
**PROPOSED RAMP AT MARGINAL DOCK DETAIL**

1 0.5 0 1  
GRAPHIC SCALE IN FEET



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DESIGNED BY	TAD				
DRAWN BY	DAM				
CHECKED BY	TAD				
DATE	SEPTEMBER 2016	REVISION	DATE	DESCRIPTION	BY
		1	03/15/17	PRE-BID MEETING	DAM

CITY OF DELRAY BEACH  
VETERANS PARK  
PROPOSED SEAWALL & MARGINAL DOCK  
  
TYPICAL SECTIONS

PROJECT NO.  
41011004.16  
SHEET NO.  
S4.5 OF 12  
FILE ID.

**SECTION 01025**  
**MEASUREMENT AND PAYMENT**

**PART 1 - GENERAL**

**1.1 EXPLANATION AND DEFINITIONS**

- A. The following explanation of the Measurement and Payment for the bid form items is made for information and guidance. The omission of reference to any item in this description shall not, however, alter the intent of the bid form or relieve the Contractor of the necessity of furnishing such as part of the Contract.

**1.2 PAYMENT**

- A. Payment shall be made for the items listed on the Bid Form on the basis of the work actually performed and completed, such work including but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, clean up, and all other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the drawings and described in the specifications.  
**The City does not pay for items ordered and/or stored on site. Payment for pay items are paid once the item is installed, measured in place, completed and accepted.**
- B. It is intended that all mobilization, insurance, bond, license and other miscellaneous administrative costs, and all other costs to the Contractor not specifically identified in the following item description be distributed among and included in the unit prices stated. No additional payment shall be made for transportation, communications, office maintenance, project signs, and other incidental work or services, and no further payment shall be made for remobilization unless all of the work is suspended by the Engineer for a period in excess of three months and through no fault to the Contractor.
- C. The CONTRACTOR's attention is called to the fact that the quotations for the various items of work are intended to establish a total price for completing the work in its entirety. No separate payment will be made for any item that is not specifically set forth in the Bid Schedule, and all costs therefore shall be included in the prices named in Bid Schedule for various appurtenant items of work.
- D. All required manufacturer testing and certification shall be included in the unit prices shown in the Proposal and Contract. **Density testing required for compacted backfilling, and concrete strength and materials testing required at the time of construction shall be arranged for and paid for by the owner.**

### 1.3 MEASUREMENT

- A. The quantities for payment under this Contract shall be determined by actual measurement of the completed items, in place, ready for service and accepted by the City.

### **PART 2 - MATERIALS**

Not used.

### **PART 3 - EXECUTION BASE BID**

#### 3.1 MOBILIZATION / DEMOBILIZATION – Bid Item No. 1

- A. Payment for mobilization/demobilization, permits, bonds, insurance, scheduling and temporary facilities and utilities will be made at the contract Lump Sum (LS) price bid for the item, which price shall be full compensation for all materials, labor, equipment, tools, excavation, masonry and all other incidentals necessary to complete this item.
- B. Mobilization is to include any maintenance of traffic plan, traffic control, flagman, portable changeable (variable) message signs, detour signs, barricades, advance warning arrow panels, construction and removal of temporary access driveways to businesses and/or residential properties, etc. in order to provide safety and traffic access in accordance with local and state requirements
- C. Payment item for mobilization shall not exceed five percent (5%) of the base bid contract price and shall be paid in increments in proportion to the total work completed. Should the price for Site Mobilization exceed 5% of the Contract amount, any amount over the 5% will be paid with the Contractor's final payment application.

#### 3.2 DEMOLITION AND REMOVAL OF EXISTING MARGINAL DOCKS AND ELEVATED CONCRETE PAD. – Bid Item No. 2

- A. Payment for this item shall be made on a Lump Sum (LS) basis. The Contractor's unit price shall include full compensation for removal of all marginal docks and the elevated concrete pad as shown on sheet S3.0.
- B. The Contractor shall remove and dispose of all existing items as listed on sheet S3 and shall conform to specification section 2050.

#### 3.3 REINFORCED CONCRETE CAP – Bid Item No. 3

- A. Payment for installing the reinforced concrete seawall cap shall be in a Lump Sum (LS) basis. The Contract Lump Sum Price shall include compensation for labor, materials, and equipment required to construct the new seawall cap in accordance with the plans and specifications.

- B. This unit price shall also include all necessary labor, materials, and equipment to adjust the paver stones to fit the new cap.

#### 3.4 REINFORCED CONCRETE RAMP - Bid Item No. 4

- A. Payment for installing the reinforced concrete access ramp shall be in a Lump Sum (LS) basis. The Contract Lump Sum Price shall include compensation for labor, materials, and equipment required to construct the new seawall cap in accordance with the plans and specifications.

#### 3.5 MARGINAL DOCKS – Bid Item No. 5

- A. Payment for installing all marginal docks shall be in a Lump Sum (LS) basis. The unit price shall include compensation for labor, materials, and equipment including deck boards, stringers, bent boards, piles, connectors, bolts, screws, and any other materials required in accordance with the plans and specifications.

#### 3.6 ALUMINUM HANDRAILS – Bid Item No. 6

- A. Payment for installing aluminum hand rails shall be in a Lump Sum (LS) basis. The unit price shall include all necessary labor, materials, and equipment to install the handrails and shall include submittal of shop drawings and calculations signed and sealed by a professional engineer registered in the state of Florida for approval.

#### 3.7 AS-BUILT RECORD DRAWINGS – Bid Item No. 7

- A. Payment for this item shall be on a Lump Sum (LS) Basis. One set of full size design drawings on reproducible material and an electronic file of the design drawings on compact disk will be furnished to the Contractor by the City. The Contractor shall maintain full size (22" x 34") field drawings to reflect the "as-built" items of work as the work progresses. Upon completion of the work, the contractor shall prepare a record set of "as-built" drawings on full size, reproducible material and an electronic file in AutoCAD 2012 or latest version. **The As-built data shall be in State Plane Coordinates and NAVD 88.** No final payment will be made for "as-built" drawings until both the reproducible and electronic files are received and accepted by the City.
- B. This item does not include surveying work required for layout and alignment of utility improvements.
- C. The signed and sealed As-Built drawings prepared by professional surveyor are required to be submitted with each pay request. Measurement for payment for providing and furnishing As-Built drawings shall be based upon percent of project complete.

- D. All survey work shall be performed by an independent third party surveyor, licensed to practice in the State of Florida. The surveyor shall be retained by the Contractor and approved by the City.

3.8 VIDEO RECORDING – Bid Item No. 8

- A. Payment under this pay item shall be Lump Sum (LS) made as stipulated in Specifications Section 0120 - Allowances

3.9 UNFORSEEN CONDITION ALLOWANCE – Bid Item No. 9

- A. Payment under this item shall be made as stipulated in Specifications Section 01020 - Allowances.

3.10 INDEMNIFICATION – Bid Item No. 10

- A. Payment under this item is included in accordance with Article 6.30 of the General Conditions.

3.11 PROJECT IDENTIFICATION SIGN – Bid Item No. 11

- A. Payment for project identification sign shall be made at the contract unit price at a Lump Sum (LS) value and shall include furnishing and maintaining the sign throughout the project duration.
- B. Refer to Technical Specification 01580 – Project Identification Sign.

3.12 NPDES PERMIT/EROSION CONTROL – Bid Item No. 12

- A. Payment for Contractor required NPDES Permit application (Notice of Intent and Notice of Termination), reporting and associated erosion protection measures including turbidity abatement for dewatering procedures will be made at the Contract Lump Sum (LS) Price Bid for this item. The percent completion of the project shall be based on the percent of the total project actually constructed and not on the percent of the Contract price completed.
- B. Payment for NPDES Permit/Erosion Protection Measures shall be made on the basis of a percentage (as determined in 'A' above) of the Lump Sum Price. The contract unit price shall include compensation for required labor, materials, and equipment necessary for complying with the NPDES Permit and providing Erosion Protection Measures during construction activities in accordance with the Contract Documents.
- C. Pay item includes NPDES Inspections per the permit conditions and all inlet protection and all silt fencing required.

3.13 ADD ALTERNATE – RAISED CONCRETE CAP AND CONCRETE RAMP REINFORCING TO GFRP (GLASS REINFORCED POLYMER FIBERS) – Bid Item No. 13

- A. The unit price for replacing all reinforcing steel in the concrete cap and concrete ramp with GFRP bars per Florida Department of Transportation Standard Specifications for Road and Bridge Construction specification 973 shall be in a Lump Sum (LS) basis.

3.14 ADD ALTERNATE MARGINAL DOCKS WITH WOOD COMPONENTS – Bid Item No. 14

- A. The add alternate for marginal docks shall be in a Lump Sum (LS) basis. The add alternate shall be to replace all FRP materials in the marginal docks with pressure treated lumber for per the plans and specifications. The quantity of curbs and/or gutter shall be determined by measurement of the units Linear Feet (LF) installed and accepted.

3.15 ADD ALTERNATE CHEMICAL GROUT AT EACH JOINT – Bid Item No. 15

- A. The add alternate for chemical grout in a Lump Sum (LS) basis. The add alternate shall be to add the chemical grout Prime Flex 920 by Prime Resins or equal to each joint to a minimum of 2ft below the existing mudline.

3.16 ADD ALTERNATE TEMPORARY ACCESS TO DINNER BOAT DURING CONSTRUCTION – Bid Item No. 16

- A. The add alternate for allowing access to the dinner boat during construction and shall be bid in a Lump Sum (LS) basis. The add alternate shall include pedestrian access through the construction site, marginal dock removal as needed, temporary gangway to access the boat, and any other items needed to allow the dinner boats to remain in services during construction.

NOTE: Items that are highlighted have been added. All other terms and conditions remain as stated in the ITBC.

END OF SECTION

APPENDIX E, SCHEDULE OF BID PRICES

Bidder will complete the Work for the following prices:

**SCHEDULE OF BID PRICES**

ITEM NO.	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE (in words)	UNIT PRICE	EXTENDED TOTAL PRICE
Veteran's Park, Delray Beach Florida						
<b>GENERAL CONDITIONS</b>						
1	MOBILIZATION / DEMOBILIZATION	LS	1	<div>Dollars</div> <div>Cents</div>	<div>\$</div>	<div>\$</div>
2	DEMOLITION AND REMOVAL OF EXISTING MARGINAL DOCKS AND ELEVATED CONCRETE PAD	LS	1	<div>Dollars</div> <div>Cents</div>	<div>\$</div>	<div>\$</div>
3	REINFORCED CONCRETE CAP	LS	1	<div>Dollars</div> <div>Cents</div>	<div>\$</div>	<div>\$</div>
4	REINFORCED CONCRETE RAMP (2)	LS	1	<div>Dollars</div> <div>Cents</div>	<div>\$</div>	<div>\$</div>

## APPENDIX E, SCHEDULE OF BID PRICES

ITEM NO.	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE (in words)	UNIT PRICE	EXTENDED TOTAL PRICE
Veteran's Park, Delray Beach Florida						
5	MARGINAL DOCKS (2)	LS	1	Dollars	\$	\$
				Cents		
6	ALUMINUM HANDRAILS	LS	1	Dollars	\$	\$
				Cents		
7	AS BUILT RECORD DRAWINGS	LS	1	Dollars	\$	\$
				Cents		
8	VIDEO ALLOWANCE	LS	1	Two Thousand Dollars	\$ 2,000.00	\$ 2,000.00
				No Cents		

## APPENDIX E, SCHEDULE OF BID PRICES

ITEM NO.	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE (in words)	UNIT PRICE	EXTENDED TOTAL PRICE
Veteran's Park, Delray Beach Florida						
9	UNFORSEEN CONDITION ALLOWANCE	LS	1	Twenty Thousand Dollars No Cents	\$ 20,000.00	\$ 20,000.00
10	INDEMNIFICATION	LS	1	Ten Dollars No Cents	\$ 10.00	\$ 10.00
11	PROJECT IDENTIFACATION SIGN	EA	3	Dollars Cents	\$	\$
12	NPDES PERMIT / EROSION CONTROL	LS	1	Dollars Cents	\$	\$
TOTAL EVALUATED BASE BID BID ITEMS 1 through 12 (in numbers)						\$ 22,010.00
				Dollars		
				Cents		

APPENDIX E, SCHEDULE OF BID PRICES

ITEM NO.	DESCRIPTION	UNIT	EST. QTY.	UNIT PRICE (in words)	UNIT PRICE	EXTENDED TOTAL PRICE
Veteran's Park, Delray Beach Florida						
<b>Note: The City reserve the right to award all or portions of the bid amount.</b> <b>(Amounts are to be shown in both words and figures. In case of discrepancies, the amount shown in words will govern for each unit price.</b> <b>Unit price shall prevail over extended total price for bid items based upon unit price.)</b>						
<b><u>ALTERNATES</u></b>						
13	RAISED CAP & RAMP REINFORCING STEEL - GFRP	EA	3	Dollars	\$	\$
				Cents		
14	ACQ 0.6 SYP #1 DECKING, FASCIA, STRINGERS AND BENTS	LS	1	Dollars	\$	\$
				Cents		
15	CHEIMCAL GROUT AT EACH JOINT	LS	1	Dollars	\$	\$
				Cents		
16	ACCESS TO DINNER BOATS	LS	1	Dollars	\$	\$
				Cents		