

# PORT OF TACOMA

**NORTHWEST SEAPORT  
ALLIANCE MANAGING  
MEMBERS:**

**Port of Tacoma  
Commissioners:**

CONNIE BACON  
DON MEYER  
DON JOHNSON  
RICHARD MARZANO  
CLARE PETRICH

**Port of Seattle  
Commissioners:**

TOM ALBRO  
STEPHANIE BOWMAN  
JOHN CREIGHTON  
FRED FELLEMAN  
COURTNEY GREGOIRE

**PORT STAFF:**

JOHN WOLFE  
Chief Executive Officer

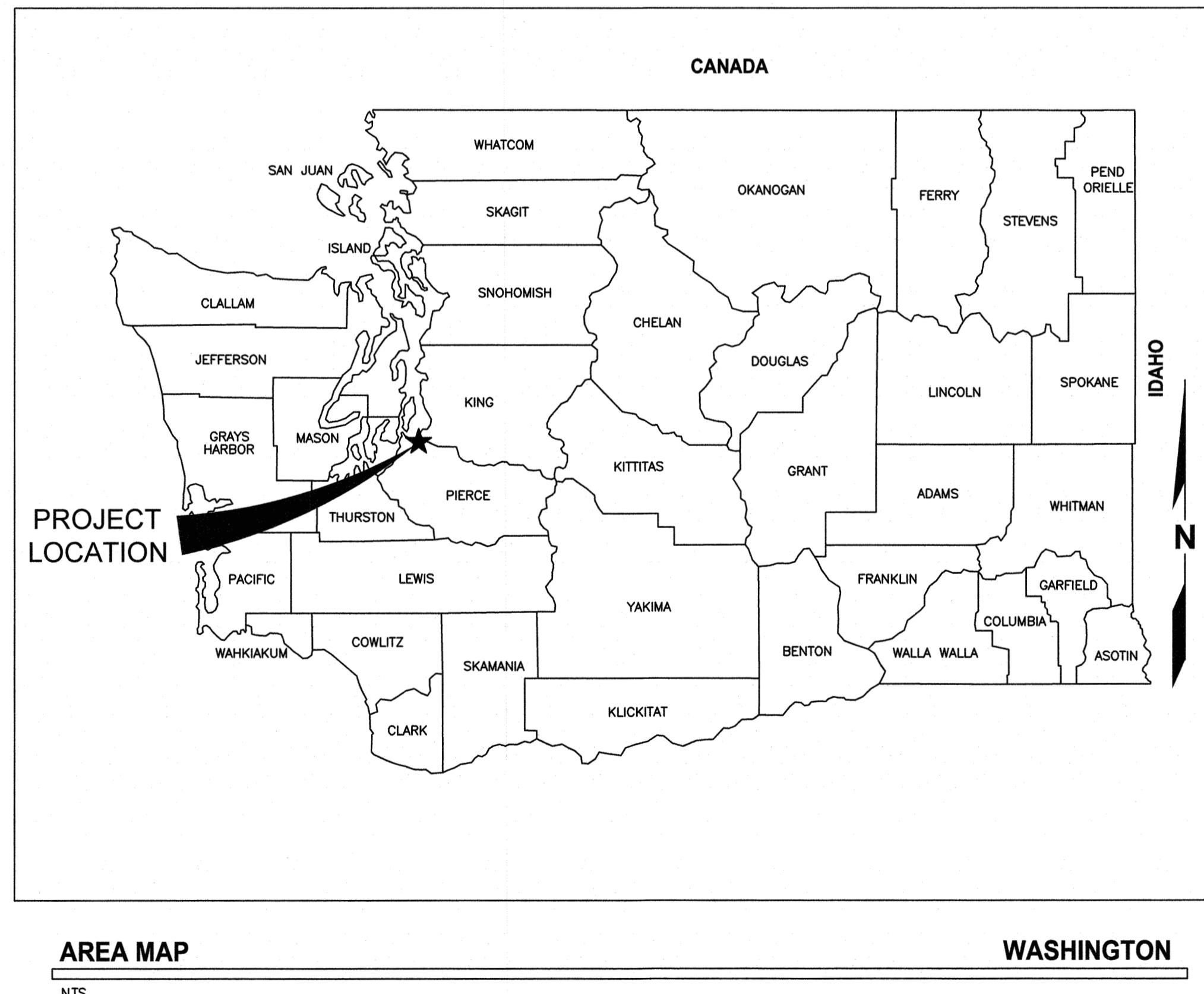
DAKOTA CHAMBERLAIN, PE  
Chief Facilities Development Officer

JAN SHAWYER  
Project Manager

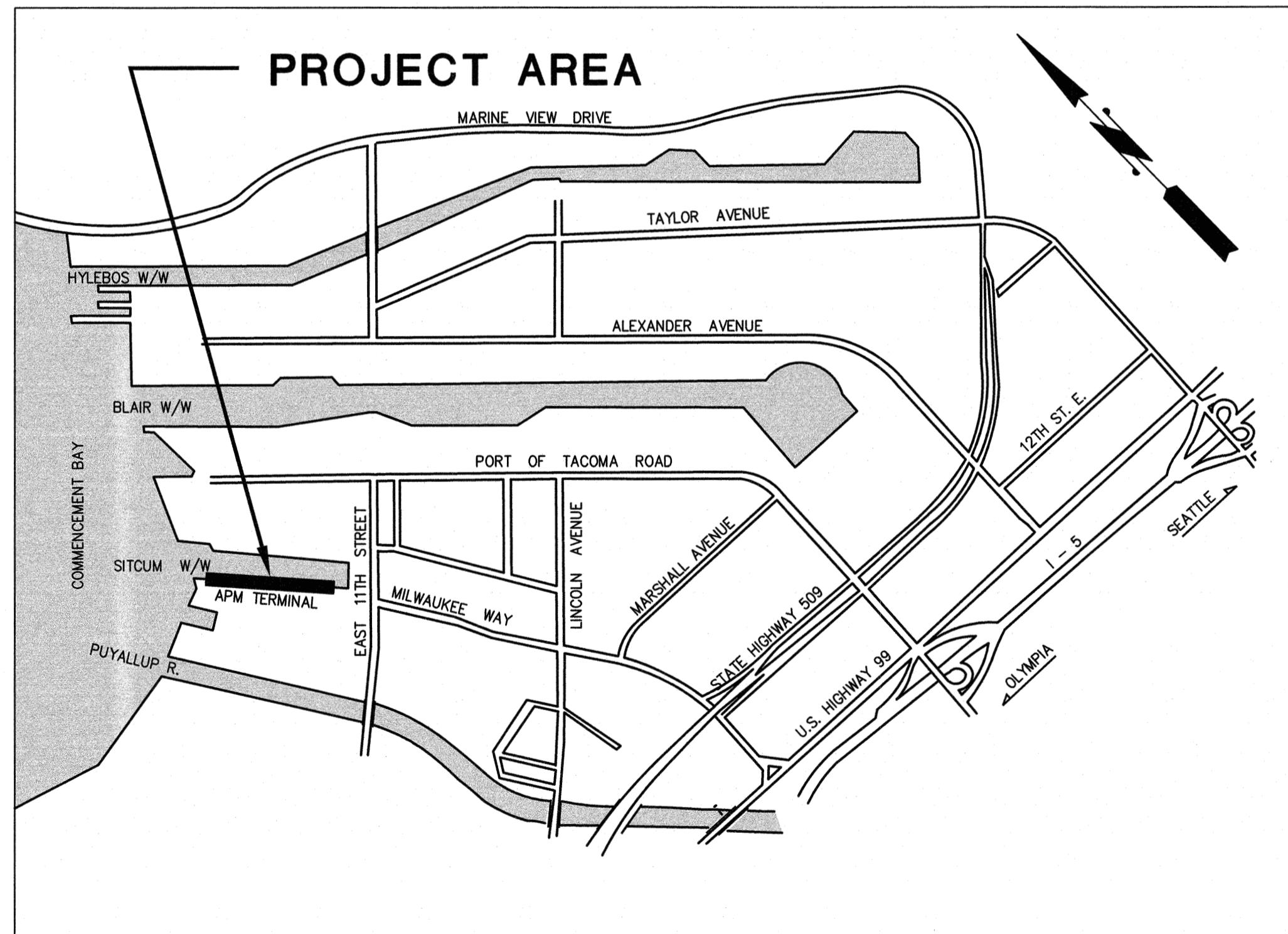
**CONSULTANT:**

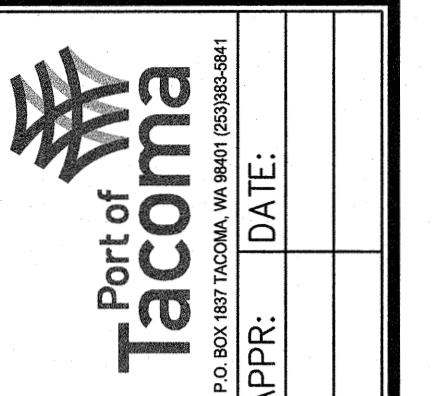
**kpff**

2407 North 31st Street, Suite 100  
Tacoma, Washington 98407  
(253) 396-0150 Fax (253) 396-0162



## APMT FENDER REPAIR PROJECT NO. 101068.01 CONTRACT NO. 070444



 <b>kpff</b> 2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 Fax (253) 396-0162 PO BOX 831 Tacoma, WA 98441-0831 APPR: DATE:		
		MARK:

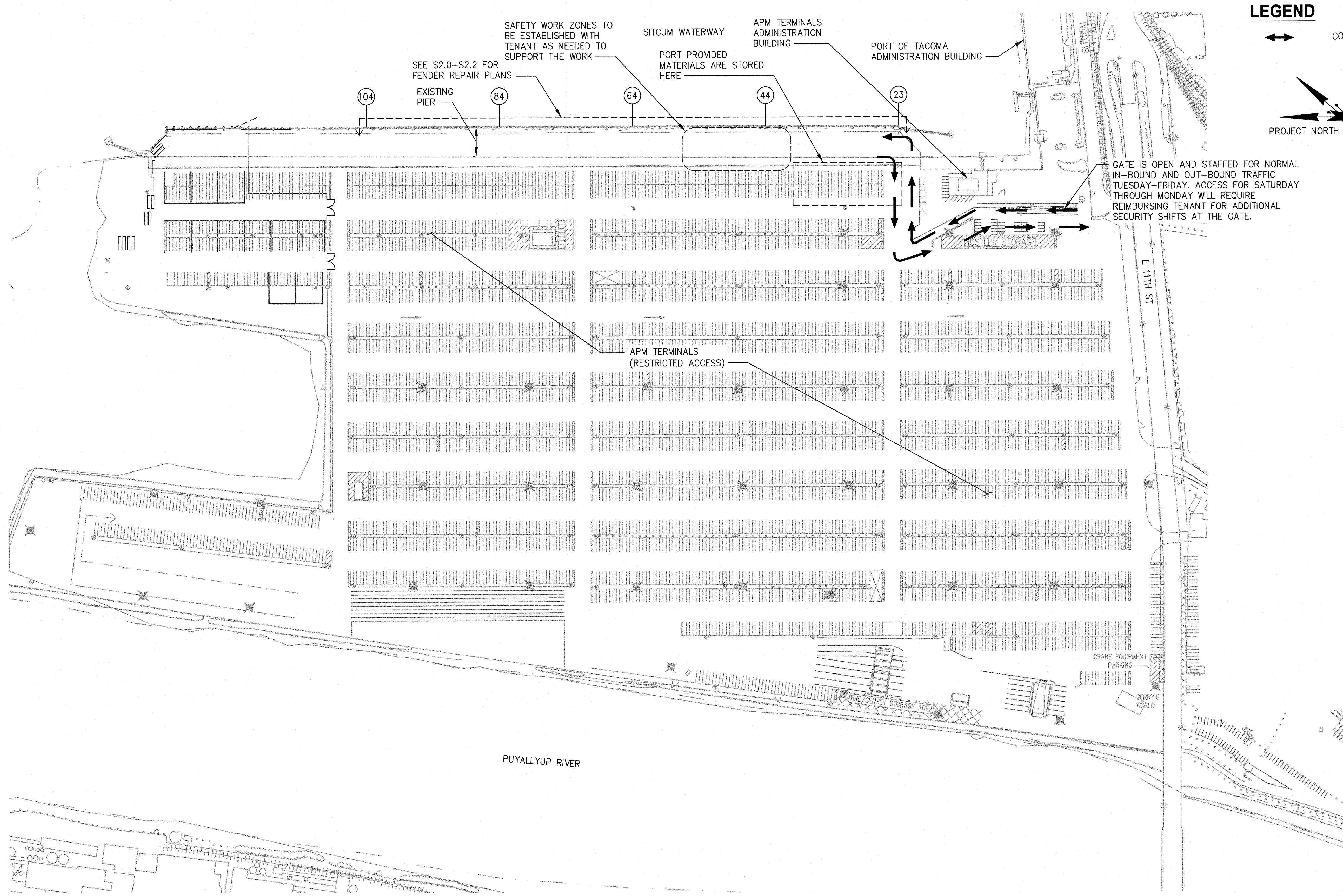
 <b>PORT OF TACOMA</b> APPROVAL DATE: 5/16/17 DIRECTOR ENG. 5/15/17 AWB 5/16/17 PRINTED BY: Temmons May 17, 2017 PORT ADDRESS: ONE SITCUM PLAZA TACOMA WA 98401-1837	
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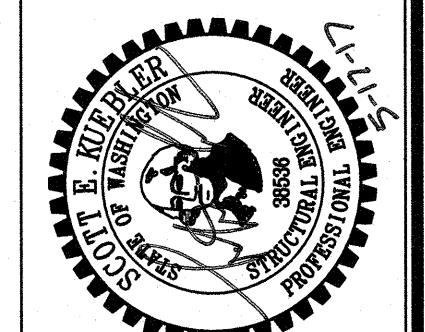
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**G1.0**  
6562  
SH 01 OF 10  
CONT/CONS: 070444 TOWNSHIP: 21N RANGE: 3E SECTION: 27  
M. ID: 101068.01 DAT-HRZ: VERT:  
PHASE: CONSTRUCTION PARCEL:





ISSUED FOR BID



**Port of Tacoma**  
2407 North 31st Street, Suite 100  
Tacoma, Washington 98402  
(253) 396-0150 Fax (253) 396-0162

PO BOX 181 TACOMA WA 98401-0181  
MARK: REVISION: BY: APPR: DATE:

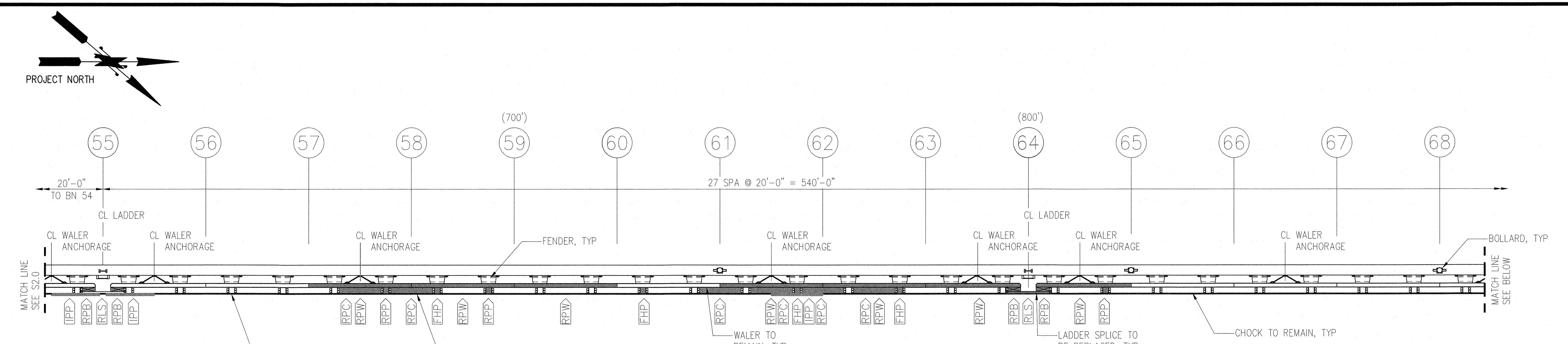
APPROVED: 5/16/17  
SEK CHECKED BY DATE  
DIRECTOR ENG. 5/16/17 AWB 5/16/17  
PRINTED BY: Itemons May 17, 2017  
PORT ADDRESS: ONE SITCUM PLAZA  
TACOMA, WA 98401-1837

**S1.1** **APM TERMINAL FENDER REPAIRS**  
SITE PLAN

6562  
SH 03 OF 10  
CONT/CONS: 070444 TOWNSHIP: 2IN RANGE: 3E SECTION: 27  
M. ID: 101068.01 DAT-HRZ: VERT:  
PHASE: CONSTRUCTION PARCEL:

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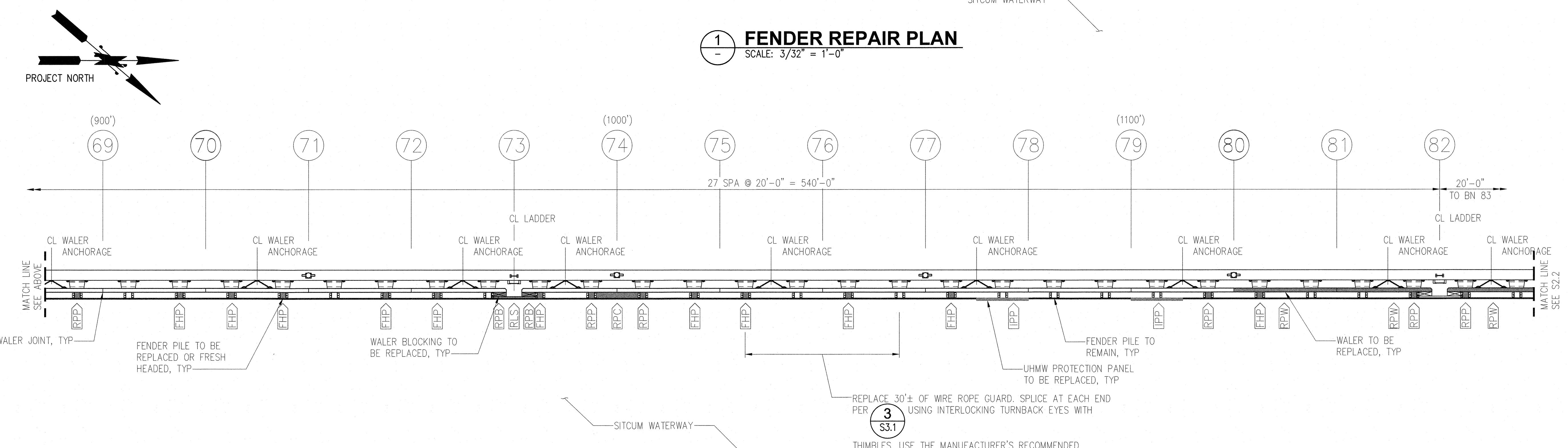




# 1 FENDER REPAIR PLAN

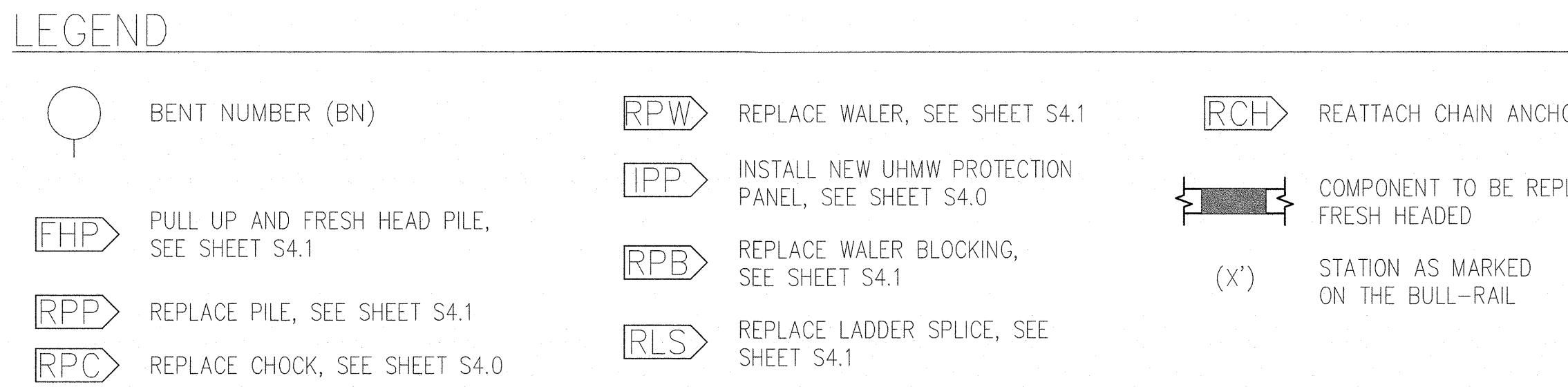
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- SCALE: 3/32" = 1'



# 2 FENDER REPAIR PLAN

- SCALE:  $3/32'' = 1'-0''$

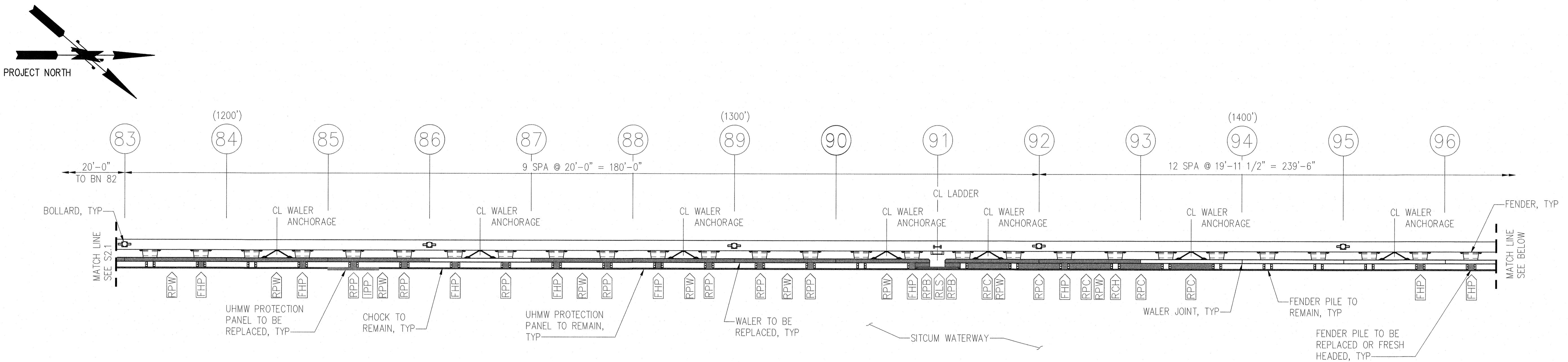


## NOTE

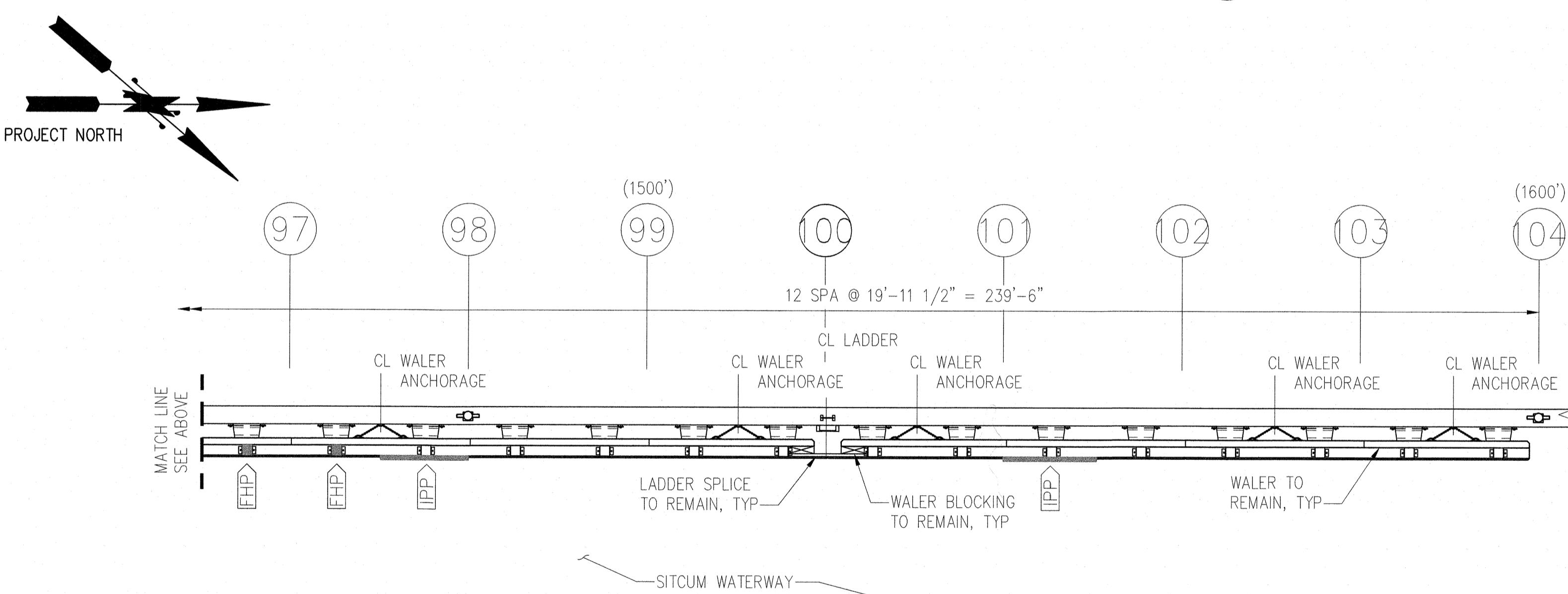
1. T/PILE ELEVATION FOR NEW PILES SHALL MATCH EXISTING PILES AT ±18.19 FT. CONTRACTOR TO VERIFY.
2. NEW PILE SHALL BE DRIVEN TO TIP ELEVATION OF -65.0 FT. PILES MAY BE DRIVEN DEEPER TO REDUCE CUT OFF, PROVIDED A SUFFICIENT CUT-OFF AMOUNT IS PROVIDED FOR A CLEAN AND UNDAMAGED DAPPED PILE HEAD. THE PILE CUT-OFF SHALL NOT BE LESS THAN 1'-0".
3. ALL DIMENSIONS ARE REFERENCE DIMENSIONS.

## **SUED FOR BID**

<b>S2.1</b>		<b>APM TERMINAL FENDER REPAIRS</b>		<b>FENDER REPAIR PLAN</b>																									
<b>SH 05 OF 10</b>		<b>2 OF 3</b>		<b>2017</b>																									
CONT/CONS: 070444	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	PRINTED BY: tlemons	DATE: May 17, 2017																								
M. D.: 101068.01	DAT-HRZ:	VERT:		PORT ADDRESS: ONE SITCUM PLAZA																									
PHASE: CONSTRUCTION	PARCEL:	DRAWING SCALE:	AS NOTED	TACOMA WA 98401-1837																									
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APPROVED:	SEK	5/16/17																											
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**1** **FENDER REPAIR PLAN**  
—  
SCALE:  $3/32"$  =  $1'-0"$



**2** - **FENDER REPAIR PLAN**  
SCALE:  $3/32"$  =  $1'-0"$

## LEGEND

 BENT NUMBER (BN)	 REPLACE WALER, SEE SHEET S4.1	 REATTACH CHAIN ANCHOR, SEE SHEET S4.1
 PULL UP AND FRESH HEAD PILE, SEE SHEET S4.1	 INSTALL NEW UHMW PROTECTION PANEL, SEE SHEET S4.0	 COMPONENT TO BE REPLACED FRESH HEADED
 REPLACE PILE, SEE SHEET S4.1	 REPLACE WALER BLOCKING, SEE SHEET S4.1	 (X') STATION AS MARKED ON THE BULL-RAIL
 REPLACE CHOCK, SEE SHEET S4.0	 REPLACE LADDER SPLICING, SEE SHEET S4.1	

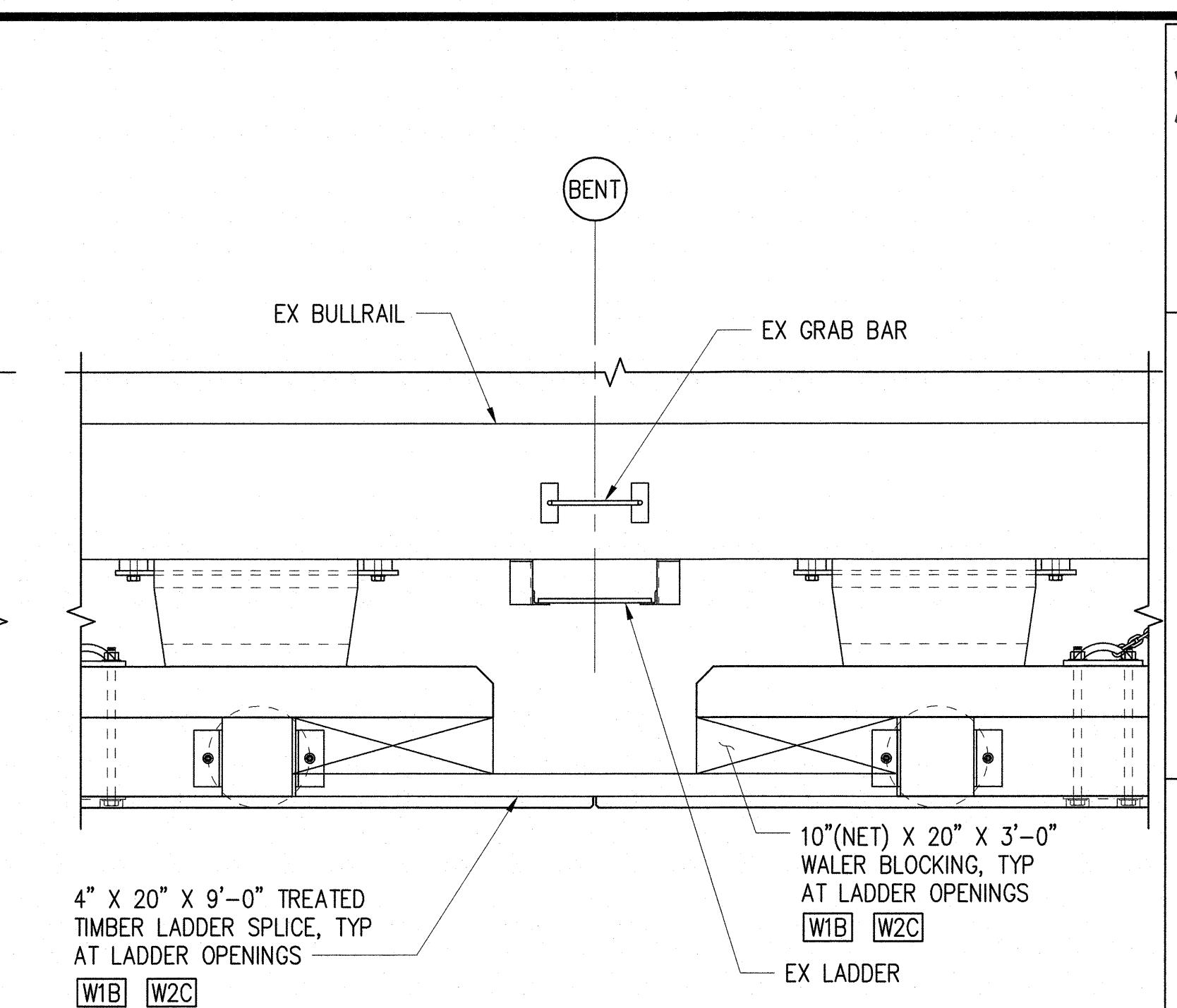
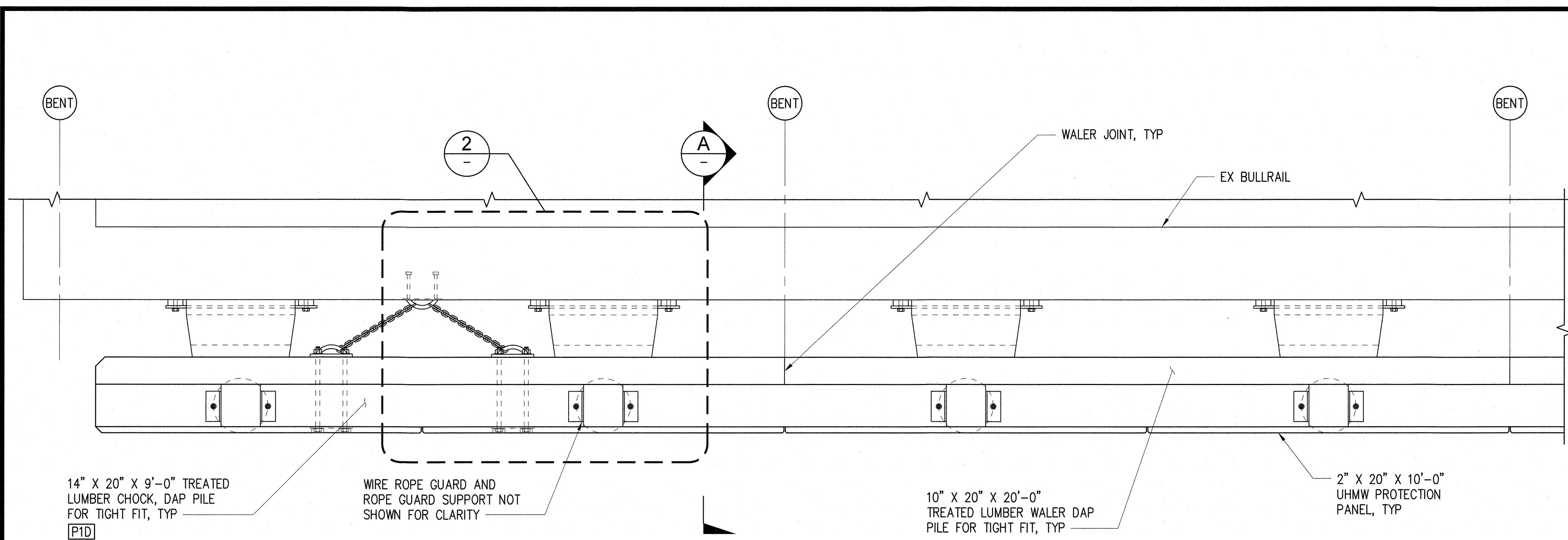


## NOTES

1. T/PILE ELEVATION FOR NEW PILES SHALL MATCH EXISTING PILES AT ±18.19 FT. CONTRACTOR TO VERIFY.
2. NEW PILE SHALL BE DRIVEN TO TIP ELEVATION OF -65.0 FT. PILES MAY BE DRIVEN DEEPER TO REDUCE CUT OFF, PROVIDED A SUFFICIENT CUT-OFF AMOUNT IS PROVIDED FOR A CLEAN AND UNDAMAGED DAPPED PILE HEAD. THE PILE CUT-OFF SHALL NOT BE LESS THAN 1'-0".
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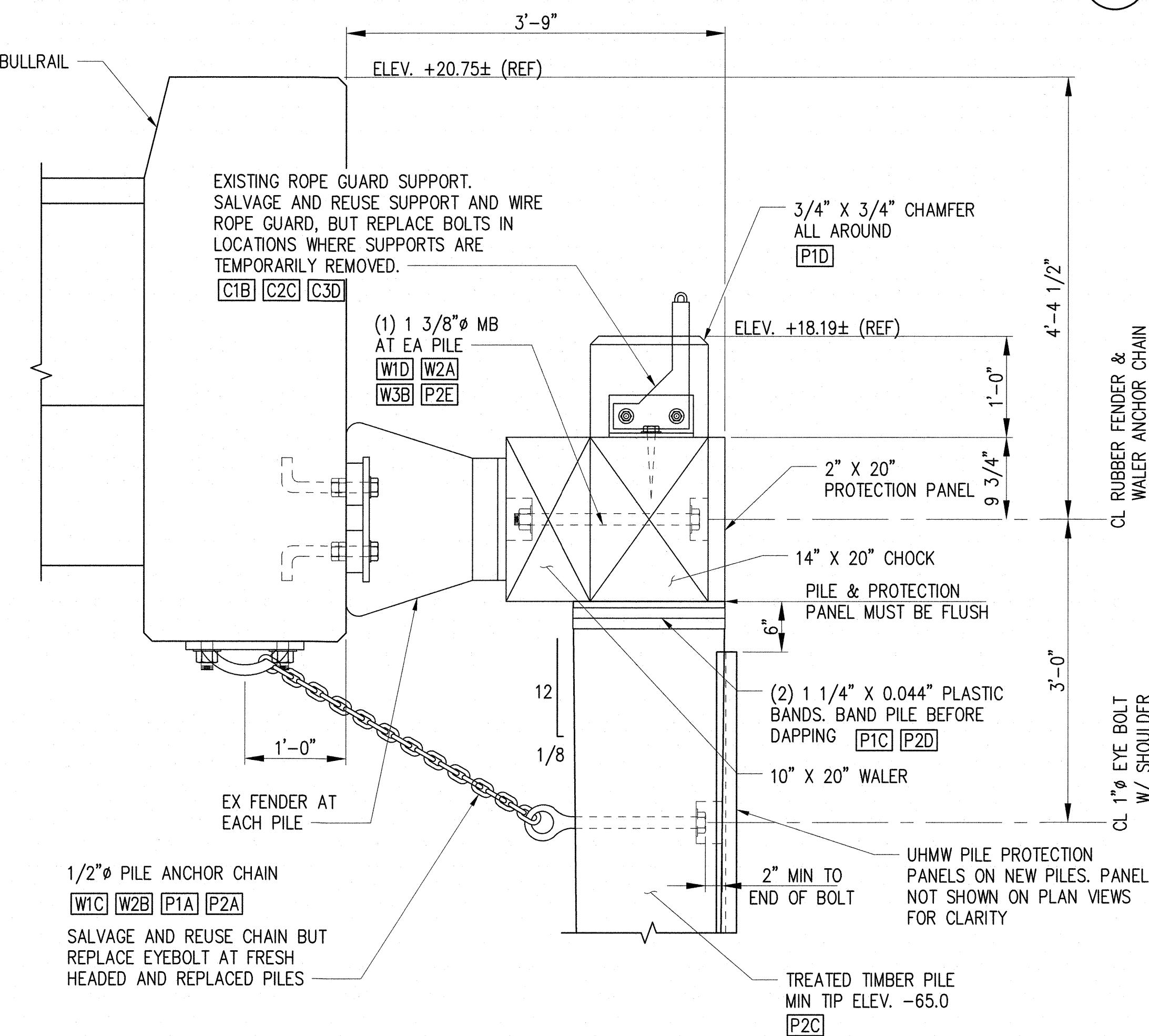
## ISSUED FOR BID

<b>562</b>		<b>APM TERMINAL FENDER REPAIRS</b>	
<b>SH 06 OF 10</b>		<b>FENDER REPAIR PLAN</b>	
		<b>3 OF 3</b>	
CON/T/CONS: 070444	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27
M.I.D: 101068.01	DAT-HRZ:	VERT:	
PHASE: CONSTRUCTION	PARCEL:	DRAWING SCALE:	AS NOTED
APPROVED:	SEK	5/16/17	
	CHECKED BY		DATE
<i>SCOTT E. KUEBLER</i>	<i>5/19/17</i>	AWB	5/16/17
DIRECTOR ENG.	DATE	PROJ. ENGR	DATE
MARK: REVISION:	BY:	APPR:	DATE:
388586	STRUCTURAL ENGINEER	TELEMONS	May 17, 2017
PROFESSIONAL ENGINEER		PORT ADDRESS: ONE SITCUM PLAZA	
		TACOMA WA 98401-1837	



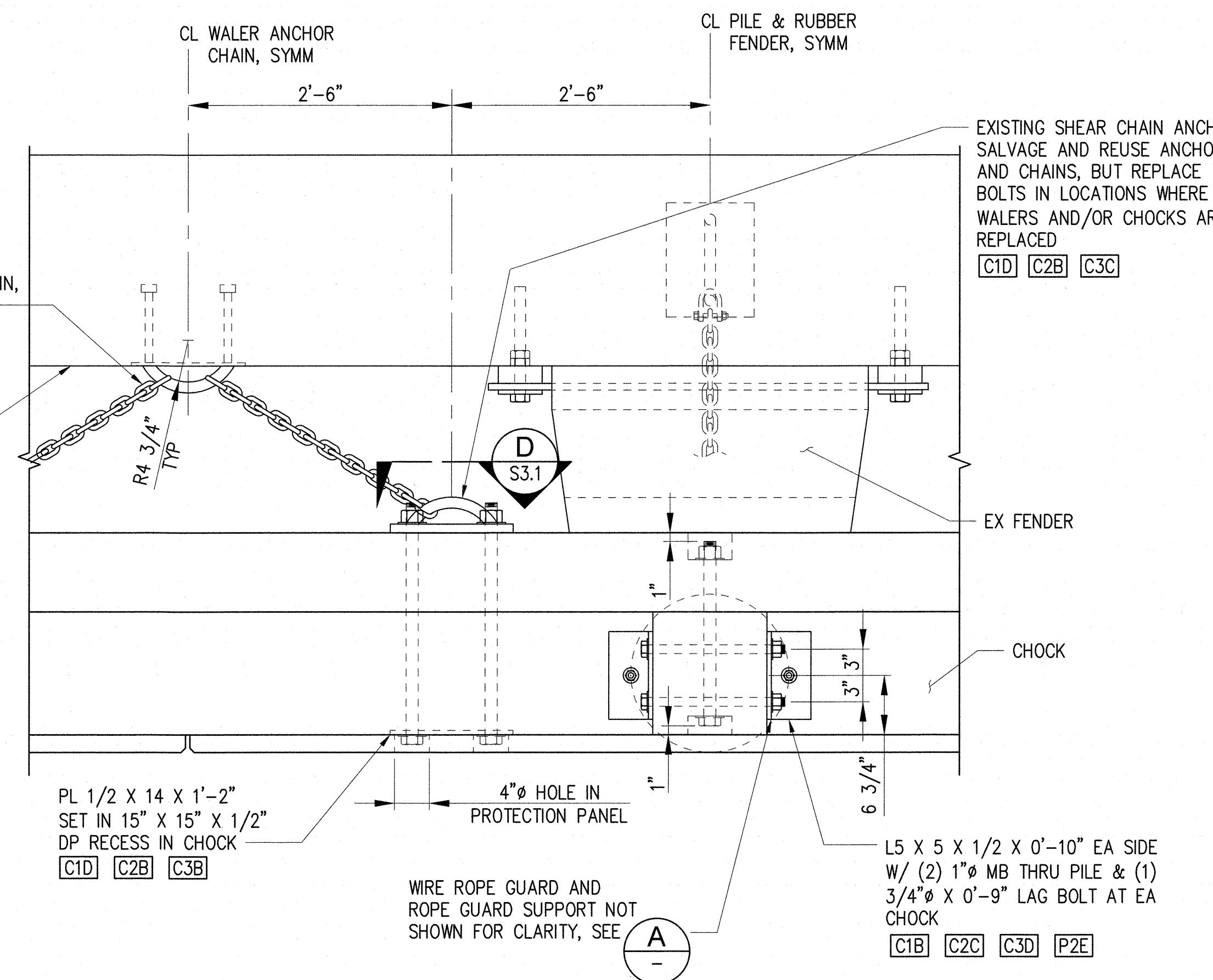
1 PLAN - FENDER SYSTEM PARTIAL PLAN

4.1 SCALE: 1/2" = 1'-0"



**A SECTION**  
S2.0, S3.0, SCALE: 1" = 1'-0"

S3.1, S4.0, S4.1



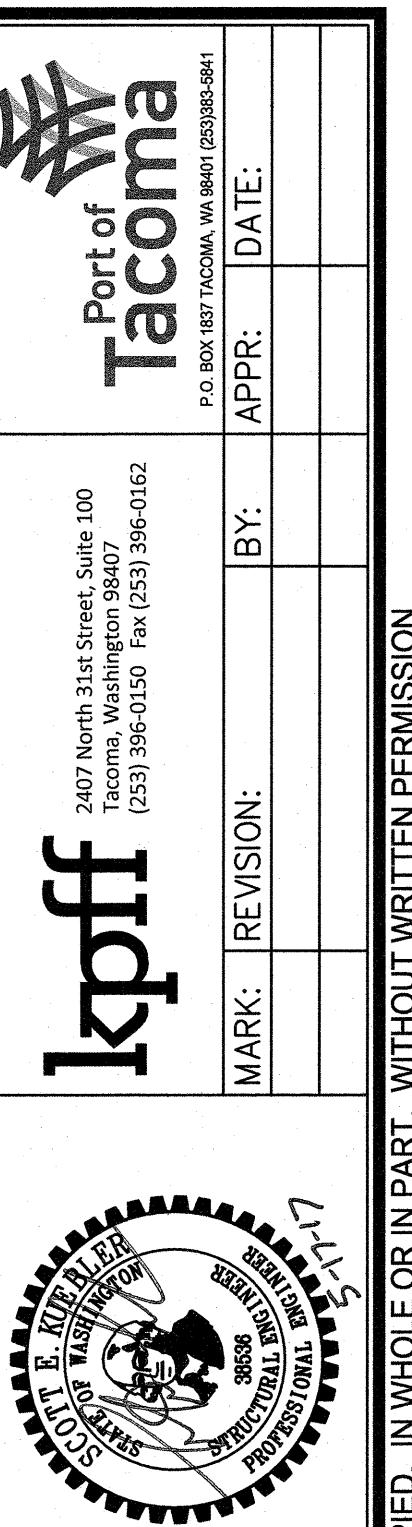
## NOTES:

1. THESE DETAILS ARE REPRODUCED FROM PORT RECORD DRAWINGS AND HAVE ONLY BEEN GENERALLY VERIFIED. THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AT EACH SPECIFIC LOCATION PRIOR TO CUTTING OR DRILLING MATERIALS.
2. SEE SHEETS S4.0 AND S4.1 FOR REPAIR NOTES. XXX

**2 DETAIL**  
S3.0, S4.0 SCALE: 1" = 1'-0"

2 DE TAIL  
S3.0 S4.0 SCALE: 1" 1' 2"

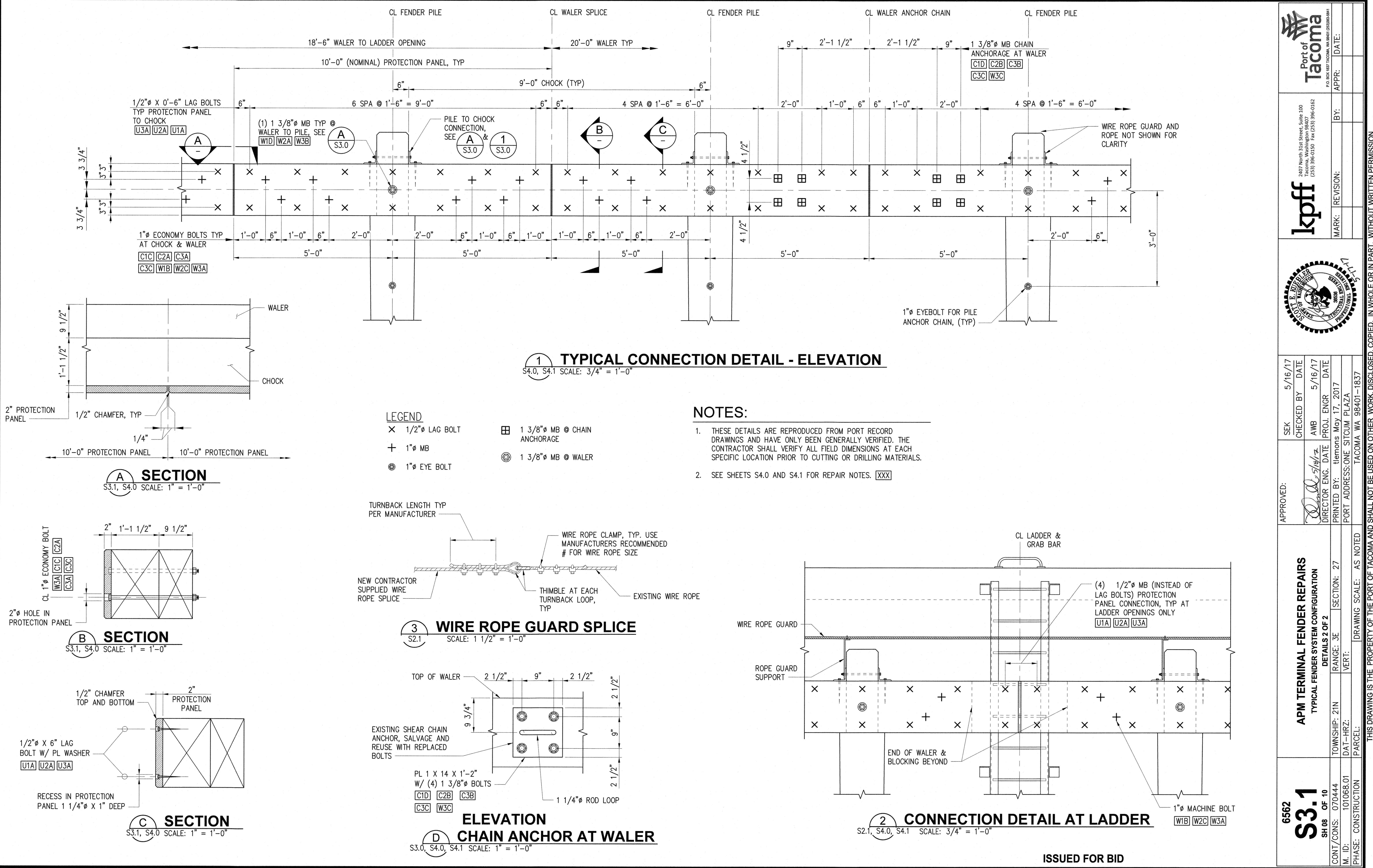
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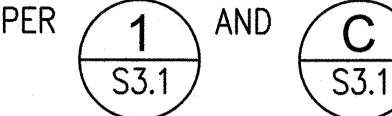
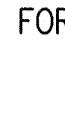
# APM TERMINAL FENDER REPAIRS

## TYPICAL FENDER SYSTEM CONFIGURATION

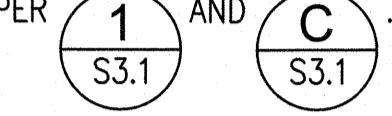
<b>SH 07 OF 10</b>		
CONT/CONS:	070444	TOWNSHIP
M. ID:	101068.01	DAT-HRZ
PHASE:	CONSTRUCTION	PARCEL:

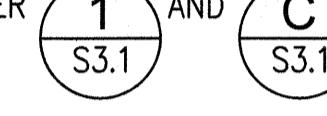
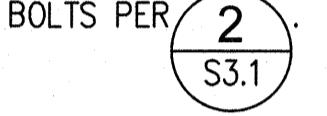


UHMW PROTECTION PANEL REPAIR STEPS **IPP**

U1. **REMOVAL**  
 U1A REMOVE LAG BOLTS AND PL WASHERS PER  AND  FOR PANEL SECTIONS AT LADDER OPENINGS, REMOVE MACHINE BOLTS PER 

U1B REMOVE PANEL.

U2. **FOR REINSTALLATION OF EXISTING PANEL**  
 U2A INSTALL LAG BOLTS AND PL WASHERS PER  FOR PANEL SECTIONS AT LADDER OPENINGS, INSTALL MACHINE BOLTS PER 

U3. **FOR INSTALLATION OF NEW 10' (NOM) PORT PROVIDED UHMW PANEL**  
 U3A INSTALL PANEL W/ LAG BOLTS AND PL WASHER PER  FOR PANEL SECTIONS AT LADDER OPENINGS, INSTALL MACHINE BOLTS PER 

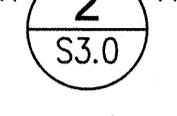
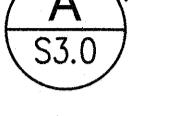
## QUANTITY SUMMARY

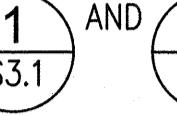
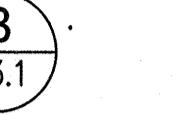
REPLACED UHMW PROTECTION PANELS	<b>IPP</b>	16
REPLACED CHOCKS	<b>RPC</b>	25

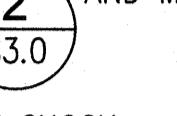
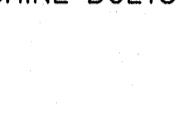
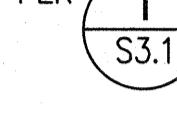
## NOTES:

1. QUANTITY SUMMARY TABLES ON S4.0 AND S4.1 INDICATE THE NUMBER OF ITEMS TO BE REPLACED WITH PORT PROVIDED MATERIALS, AND THE NUMBER OF PILES TO BE FRESH HEADED. REMOVAL AND REINSTALLATION OF EXISTING ELEMENTS OF THE FENDER SYSTEM WILL BE REQUIRED, ARE NOT QUANTIFIED EXPLICITLY IN THESE TABLES, AND SHALL BE CONSIDERED IN THE CONTRACTOR'S BID.
2. REPAIR STEPS ARE PROVIDED AS A SUGGESTED MEANS FOR REPLACING THE INDICATED ITEMS AND ARE NOT INTENDED TO DICTATE CONTRACTOR MEANS AND METHODS OR REPRESENT ALL WORK REQUIRED FOR REPLACEMENT OF EACH ITEM. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS, METHODS AND EXTENT OF WORK NECESSARY TO REPLACE THE INDICATED ITEMS WITHOUT DAMAGE TO NEW ITEMS OR ITEMS TO REMAIN.

CHOCK REPAIR STEPS **RPC**

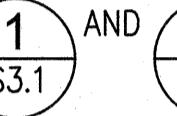
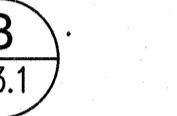
C1. **REMOVAL**  
 C1A REMOVE CONNECTED PROTECTION PANELS PER STEPS U1A - U1B.  
 C1B REMOVE PILE-TO-CHOCK CONNECTION ANGLE, WIRE ROPE GUARD, AND ROPE GUARD SUPPORTS AT EA END PER  AND 

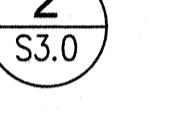
C1C REMOVE ECONOMY BOLTS PER  AND 

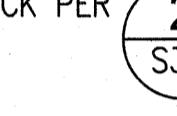
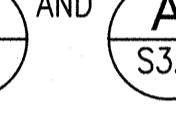
C1D AT WALER CHAIN ANCHORAGE LOCATIONS, REMOVE PL 1/2 x 14 x 1'-2" AND SHEAR CHAIN ANCHOR PER  AND MACHINE BOLTS PER  AND 

C1E REMOVE CHOCK.

C2. **FOR REINSTALLATION OF EXISTING CHOCK (COORDINATE CHOCK INSTALLATION WITH INSTALLATION OF NEW OR REUSED WALER)**

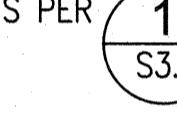
C2A INSTALL ECONOMY BOLTS PER  AND 

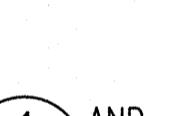
C2B AT WALER CHAIN ANCHORAGE LOCATIONS, INSTALL PL 1/2 x 14 x 1'-2" IN 1/2" DEEP RECESS IN CHOCK AND SHEAR CHAIN ANCHOR PER  AND INSTALL BOLTS PER  AND 

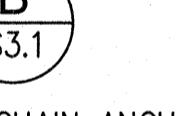
C2C INSTALL PILE-TO-CHOCK CONNECTION ANGLE, WIRE ROPE GUARD, AND ROPE GUARD SUPPORTS EA END OF CHOCK PER  AND 

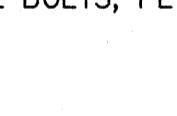
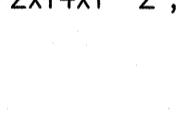
C2D INSTALL UHMW PROTECTION PANELS PER STEPS U2A OR U3A FOR EXISTING OR NEW PANELS, RESPECTIVELY.

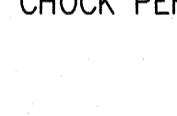
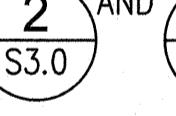
C3. **FOR INSTALLATION OF NEW PORT PROVIDED CHOCK (COORDINATE CHOCK INSTALLATION WITH INSTALLATION OF NEW OR REUSED WALER)**

C3A DRILL HOLES FOR ECONOMY BOLTS PER  AND 

C3B AT WALER CHAIN ANCHORAGE LOCATIONS, CUT 15" x 15" x 1/2" DEEP RECESS IN CHOCK FOR PL 1/2 x 14 x 1'-2" PER  DRILL HOLES FOR BOLTS PER  AND 

C3C INSTALL ECONOMY BOLTS PER  AND  AT WALER CHAIN ANCHORAGE LOCATIONS,

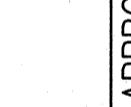
INSTALL BOLTS, PL 1/2x14x1'-2", AND SHEAR CHAIN ANCHOR PER  AND 

C3D INSTALL PILE-TO-CHOCK CONNECTION ANGLE, WIRE ROPE GUARD, AND ROPE GUARD SUPPORTS AT EA END OF CHOCK PER  AND 

C3E INSTALL UHMW PROTECTION PANELS PER STEPS U2A OR U3A FOR EXISTING OR NEW PANELS, RESPECTIVELY.

**S4.0**  
SH 09 OF 10  
CONT/CONS: 070444  
M. I.D.: 101068.01  
PHASE: CONSTRUCTION

**6562**  
APM TERMINAL FENDER REPAIRS  
FENDER SYSTEM REPAIR NOTES  
1 OF 2  
TOWNSHIP: 21N  
RANGE: 3E  
SECTION: 27  
DAT-HRZ: VERT:  
PARCEL:

APPROVED:  SEK 5/16/17  
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PRINTED BY: Itemons May 17, 2017  
PORT ADDRESS: ONE STCUM PLAZA  
TACOMA WA 98401-1837

Port of  
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Tacoma, Washington 98401-3841  
(253) 396-0150 fax (253) 396-0162  
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**Kpff**  
KELLY P. FERGUSON  
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517-545-1777

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## WALER REPAIR STEPS RPW>RPB>RLS>

### W1. REMOVAL

[W1A] REMOVE CONNECTED CHOCKS PER STEPS [C1A] - [C1E] ON SHEET S4.0.

[W1B] FOR WALES AT LADDER OPENINGS, REMOVE MACHINE BOLTS CONNECTING TIMBER LADDER SPLICE, WALER BLOCKING, AND WALER PER [1] S3.0, [1] S3.1, AND [2] S3.1. REMOVE TIMBER LADDER SPLICE AND



WALER BLOCKING.

[W1C] AT EACH PILE CONNECTED TO WALER, DISCONNECT COUPLING LINK ON PILE ANCHOR CHAIN FROM EYE BOLT PER [A] S3.0.

[W1D] AT EACH PILE CONNECTED TO WALER, REMOVE BOLT THROUGH PILE AND WALER PER [1] S3.1 AND [A] S3.0.

DO NOT DAMAGE PILES OR FENDERS WHEN REMOVING PILE-TO-WALER CONNECTION BOLTS.

[W1E] REMOVE WALER.

### W2. FOR REINSTALLATION OF EXISTING WALER (COORDINATE WALER INSTALLATION W/ INSTALLATION OF NEW OR REUSED CHOCKS)

[W2A] AT EACH PILE TO BE CONNECTED TO WALER, INSTALL BOLT THROUGH DAPPED PILE HEAD AND WALER PER AND [A] S3.0.

[W2B] RECONNECT COUPLING LINK ON PILE ANCHOR CHAIN TO EYE BOLT PER [A] S3.0.

[W2C] FOR WALES AT LADDER OPENINGS, ATTACH TIMBER LADDER SPLICE AND WALER BLOCKING TO WALER WITH MACHINE BOLTS PER [1] S3.0, [1] S3.1 AND [2] S3.1. FOR NEW TIMBER LADDER SPLICES OR WALER BLOCKING, DRILL

HOLLES FOR BOLTS TO MATCH HOLES IN EXISTING WALER.

[W2D] INSTALL CHOCKS TO WALER PER STEPS [C2A] - [C2D] OR [C3A] - [C3D] ON SHEET S4.0 FOR EXISTING OR NEW CHOCKS, RESPECTIVELY.

[W2E] INSTALL UHMW PROTECTION PANELS PER STEPS [U2A] OR [U3A] ON SHEET S4.0 FOR EXISTING OR NEW UHMW PROTECTION PANELS, RESPECTIVELY.

### W3. FOR INSTALLATION OF NEW PORT PROVIDED WALER (COORDINATE WALER INSTALLATION W/ INSTALLATION OF NEW OR REUSED CHOCKS)

[W3A] DRILL HOLES FOR BOLTS PER [1] S3.1 AND [B] S3.1. FOR WALES AT LOCATIONS

WHERE EXISTING CHOCKS ARE TO BE MOUNTED TO NEW WALER, MATCH BOLT HOLES TO EXISTING CHOCKS.

[W3B] DRILL HOLES FOR BOLT AT DAPPED PILE HEAD TO WALER CONNECTION LOCATIONS PER [1] S3.1 AND [A] S3.0.

[W3C] AT WALER CHAIN ANCHORAGE LOCATIONS, DRILL HOLES FOR BOLTS PER [1] S3.1 AND [D] S3.1. FOR

WALES AT LOCATIONS WHERE EXISTING CHOCKS ARE TO BE MOUNTED TO NEW WALER, MATCH BOLT HOLES TO EXISTING CHOCKS.

[W3D] INSTALL WALER PER STEPS [W2A] - [W2E]

## PILE REPAIR STEPS FHP>RPP>

### P1. TO FRESH HEAD AN EXISTING TIMBER FENDER PILE

[P1A] REMOVE CONNECTED WALER, CHOCKS, AND UHMW PROTECTION PANELS PER STEPS [W1A] - [W1E] FOR PILES AT LADDER OPENINGS, REMOVE WALER BLOCKING AND TIMBER LADDER SPLICE PER STEP [W1B]. DETACH PILE ANCHOR CHAIN PER [A] S3.0. FOR PILES W/ UHMW PROTECTION PANELS, REMOVE PANELS.

[P1B] PULL UP EXISTING PILE TO BE FRESH HEADED APPROXIMATELY TWO FEET AND REMOVE DAMAGED PILE TOP.

[P1C] BAND PILE WITH (2) PLASTIC BANDS PER [A] S3.0 TO PREVENT SPLITTING WHEN DAPPING NEW PILE HEAD.

[P1D] DAP AND CHAMFER NEW PILE HEAD FOR TIGHT FIT BETWEEN CHOCKS AND WALES PER [1] S3.0 AND [A] S3.0 TREAT NEW PILE HEAD PER SPECIFICATIONS.

[P1E] RECONNECT PILE ANCHOR CHAIN, WALES, CHOCKS, ROPE GUARD SUPPORTS AND PROTECTION PANELS WITH NEW HARDWARE PER STEPS [W2A] - [W2E] OR [W3A] - [W3D] FOR REINSTALLATION OF EXISTING WALER OR INSTALLATION OF NEW WALER, RESPECTIVELY.

[P1F] REATTACH PILE UHMW PROTECTION PANEL W/ NEW LAG BOLTS.

### P2. TO REMOVE AND INSTALL NEW PORT PROVIDED TREATED TIMBER FENDER PILE

[P2A] REMOVE CONNECTED WALER, CHOCKS, AND UHMW PROTECTION PANELS PER STEPS [W1A] - [W1E] FOR PILES AT LADDER OPENINGS, REMOVE WALER BLOCKING AND TIMBER LADDER SPLICE PER STEP [W1B]. DETACH PILE ANCHOR CHAIN PER [A] S3.0.

[P2B] REMOVE AND DISPOSE OF EXISTING FENDER PILE PER SPECIFICATIONS.

[P2C] INSTALL NEW TREATED TIMBER FENDER PILE TO MINIMUM TIP ELEVATION PER [A] S3.0. SEE SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.

[P2D] BAND AND DAP INSTALLED FENDER PILE PER STEPS [P1C] - [P1D].

[P2E] DRILL HOLE THROUGH PILE HEAD FOR BOLT AT PILE HEAD-TO-WALER CONNECTION PER [A] S3.0 AND DRILL Holes FOR BOLTS THROUGH PILE HEAD FOR PILE TO CHOCK CONNECTION PER [2] S3.0.

[P2F] CONNECT PILE ANCHOR CHAIN, WALES, CHOCKS, ROPE GUARD SUPPORT, AND PROTECTION PANELS WITH NEW HARDWARE PER STEPS [W2A] - [W2E] OR [W3A] - [W3D] FOR REINSTALLATION OF EXISTING WALER OR INSTALLATION OF NEW WALER, RESPECTIVELY.

[P2G] ATTACH PORT SUPPLIED UHMW PROTECTION PANEL.

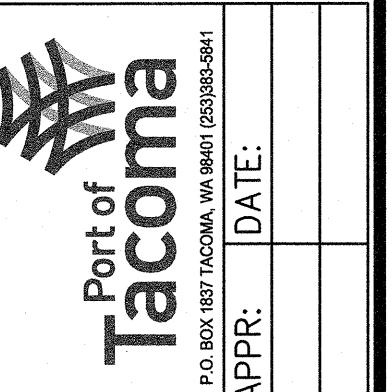
## QUANTITY SUMMARY

APM TERMINAL FENDER REPAIRS		
FENDER SYSTEM REPAIR NOTES		
2 OF 2		
REPLACED WALERS	RPW>	23
REPLACED BLOCKING (2 EACH)	RPB>	5
REPLACED LADDER SPLICES	RLS>	5
REPLACED PILES	RPP>	33
FRESH HEAD PILES	FHP>	39

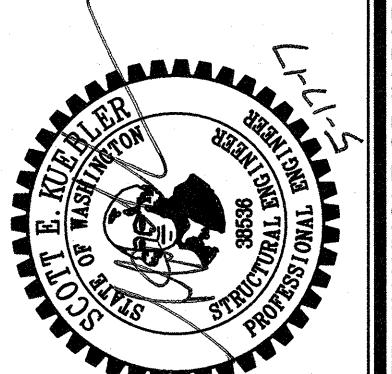
## NOTES:

1. QUANTITY SUMMARY TABLES ON S4.0 AND S4.1 INDICATE THE NUMBER OF ITEMS TO BE REPLACED WITH PORT PROVIDED MATERIALS, AND THE NUMBER OF PILES TO BE FRESH HEADED. REMOVAL AND REINSTALLATION OF EXISTING ELEMENTS OF THE FENDER SYSTEM WILL BE REQUIRED, ARE NOT QUANTIFIED EXPLICITLY IN THESE TABLES, AND SHALL BE CONSIDERED IN THE CONTRACTOR'S BID.
2. REPAIR STEPS ARE PROVIDED AS A SUGGESTED MEANS FOR REPLACING THE INDICATED ITEMS AND ARE NOT INTENDED TO DICTATE CONTRACTOR MEANS AND METHODS OR REPRESENT ALL WORK REQUIRED FOR REPLACEMENT OF EACH ITEM. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS, METHODS AND EXTENT OF WORK NECESSARY TO REPLACE THE INDICATED ITEMS WITHOUT DAMAGE TO NEW ITEMS OR ITEMS TO REMAIN.

ISSUED FOR BID



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(206) 595-0350 Fax (206) 396-0162
P.O. BOX 681 TACOMA, WA 98441 (206) 595-5841
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DATE:



APPROVED:	SEK	5/16/17
	CHECKED BY	DATE
	AWB	5/16/17
	DIRECTOR ENG.	PROJ. ENGR.
	5/16/17	DATE
	PRINTED BY:	TELEMONS MAY 17, 2017
2 OF 2	SECTION: 27	PORT ADDRESS: ONE SITCUM PLAZA
SH 10 OF 10	VER: 1	TACOMA, WA 98401-1837

6562	APM TERMINAL FENDER REPAIRS	
S4.1	FENDER SYSTEM REPAIR NOTES	
2 OF 2		
CONT/CONS: 070444	TOWNSHIP: 21N	RANGE: 3E
M. ID: 101068.01	DAI-HRZ:	SECTION: 27
PHASE: CONSTRUCTION	VER:	DRAWING SCALE: AS NOTED
PARCEL:		

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