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May 3, 2016

TO: PLANHOLDERS

SUBJECT: PIER 4 PHASE 2 RECONFIGURATION
PROJECT NO. 091251
CONTRACT NO. 070136

ADDENDUM NUMBER THREE

This addendum is issued to amend the following:

SPECIFICATIONS

A. 00 41 00 BID FORM (VOLUME 1 OF 3)

1. **DELETE** and **REPLACE** the issued Section 00 41 00 – Bid Form with the attached revised Section 00 41 00 – Bid Form reflecting revision to Bid Items 10 and 11. (See Attachment A to this Addendum No. 3)

B. 01 20 00 PRICE AND PAYMENT PROCEDURES (VOLUME 1 OF 3)

1. **REVISE** paragraph 1.06.F.2 to read as follows:

2. Measurement: This item will be measured by the horizontal linear foot of the wall system removed as illustrated on the drawings. and as discussed in specification section 02 41 00, paragraph 3.03.A.

C. 02 41 00 - DEMOLITION (VOLUME 1 OF 3)

1. **REVISE** paragraph 3.03.A to read as follows:

- A. ... the project. Measurement for payment of wall system removal shall be based on the horizontal length of wall system removed. The wall system shall be defined as shown on Sheet 2 of the reference drawings titled, “Pier IV Bulkhead Construction”, EP-1318-4, dated February 1966 identified in Section 00 31 00 – Available Project Information. Each horizontal lineal foot of the wall system includes the entire bulkhead section, including all piles, planks, braces, tie-back cables, and connection hardware. Estimation of bid quantities and costs associated with removal and disposal of the wall, and impacts to construction schedule and sequencing, shall be made by the Contractor based on information contained on the Contract Drawings and the record reference drawings indicated herein

D. 31 66 13 – STONE COLUMNS (VOLUME 1 OF 3)

1. **REVISE** paragraph 2.01.B.3 as follows:

3. The gradation of stone, measured according to ASTM D 422, shall conform to the following AASHTO No. 57 grading requirements:

<u>Sieve Size</u>	<u>Percentage Passing</u>
1.5 inch square	100
1 inch square	95 to 100
1/2 inch square	25 to 60
U.S. No.4 sieve	0 to 10
U.S. No.8 sieve	0 to 5
U.S. No. 200 sieve	0

E. 26 22 13.01 – DRY TYPE TRANSFORMER (VOLUME 2 OF 3)

1. **DELETE** and **REPLACE** the issued section with the attached Section 26 22 13.01 - Dry Type Transformer. (Attachment B to this Addendum No. 3)

F. 03 30 00.01 – CAST-IN-PLACE CONCRETE (VOLUME 2 OF 3)

1. **ADD** to paragraph 2.07.A.1 the following manufacturer and product:

f. W.R. Meadows; Sealtight Perminator HP 15 mil.

2. **REVISE** paragraph 2.08.b to read as follows:

3. ...concrete slabs scheduled as “CS” (Clear Sealer). “SC” (Sealed Concrete). This applies only...

G. 05 50 00.01 – METAL FABRICATIONS (VOLUME 2 OF 3)

1. **REVISE** paragraph 2.08.B to read as follows:

B. Provide Interior Exterior Vertical Ladders...

2. **REVISE** paragraph 2.08.B.1 to read as follows:

1. Provide Model #502 #503A extruded...

H. 05 51 00.01 – METAL STAIRS

1. **REVISE** paragraph 2.06.D.2.b to read as follows:

b. Finish: Powder Coat. Provide manufacturer standard colors for selection by Engineer. Color as indicated on drawings. Provide color sample for approval by Engineer.

I. 07 13 26.01 - SELF-ADHERING SHEET WATERPROOFING

1. ADD to paragraph 2.02.A.1 the following manufacturer and product:
 - c. W.R. Meadows; MEL-ROL Rolled, Self-Adhering Waterproofing Membrane.
2. ADD to paragraph 2.03.A.1 the following manufacturer and product:
 - c. W.R. Meadows; PRECON Blindsides Waterproofing / Underslab Membrane.

J. 09 51 13.01 – ACOUSTICAL PANEL CEILINGS

1. ADD to paragraph 2.02.A. the following manufacturer and product:
 4. Rockfon; Sonar 24"x48" with Square Tegular Narrow suspension system.

DRAWINGS

A. DRAWING G7.1 – EXISTING CONDITIONS PLAN (SHEET 11)

1. **REVISE** Timber Bulkhead Notes as indicated on the revised drawing. (See Attachment C to this Addendum No. 3)

B. DRAWING D1.2 – UTILITY AND SITE DEMOLITION PLAN – SHEET 2 (SHEET 21)

1. **REVISE** Timber Bulkhead Notes and Key Notes as indicated on the revised drawing. (See Attachment D to this Addendum No. 3)

C. DRAWING C3.1 – SLOPE PROTECTION PLAN (SHEET 52)

1. **ADD** light rock rip rap and filter blanket in specified area benched for pile and pile cap installation, 2,300 square feet. (See Attachment E to this Addendum No. 3)

D. DRAWING C3.3 – SLOPE PROTECTION SECTIONS – SHEET 2 (SHEET 54)

1. **ADD** light rock rip rap and filter blanket waterside of bulkhead as denoted. (See Attachment F to this Addendum No. 3)

E. DRAWING E3.2 – SITE ELECTRICAL PLAN (SHEET 128)

1. **REVISE** General Note 2 to read as follows:
 2. SEE SHEET E8.3 FOR WIFC SERIES FOR PROVIDING COMM CABLES IN THESE EXISTING DUCTBANKS.

F. DRAWING S4.2 – PILE AND PILE CAP PLAN – SHEET 2 (SHEET 180)

1. **REPLACE** entire sheet with attached sheet to include existing slope contours. (See Attachment G to this Addendum No. 3)

G. DRAWING S27.45 – DECK PANEL DETAILS – SHEET 45 (SHEET 340)

1. **REVISE** Detail A Typical Crane Beam Panel Type “L” Section P2A and Detail B Typical Type “R” Crane Beam Panel Elevation as denoted. (See Attachment H to this Addendum No. 3)

H. DRAWING S27.48 – DECK PANEL DETAILS – SHEET 48 (SHEET 343)

1. **REVISE** Detail A Crane Beam Pan Type ‘R’ Section P8A and Detail B Deck Panel Elevation as denoted. (See Attachment I to this Addendum No. 3)

I. DRAWING S36.1 CRANE STOP DETAILS (SHEET 369)

1. **REVISE** height of crane stop, as denoted in Detail 1 Elevation –Crane Stops Landside and Waterside; anchoring, as denoted in Detail 3 Detail – Crane Stop Base Plate Anchoring – Front Post; and welds, as denoted in Detail A Section – Crane Stop Base Plate – Front Post. (See Attachment J to this Addendum No. 3)

J. DRAWING A7.00 - MARINE BUILDING VERTICAL CIRCULATION (SHEET 410) – DETAIL 2 VERTICAL CIRCULATION – STAIR

1. **REVISE** drawing note to read as follows:

PIPE RAIL CONTINUED FROM HANDRAIL TO WALL WITH MINIMUM 3 VERTICAL SUPPORTS TO FLOOR TO PREVENT ACCESS UNDER STAIR, HPC-3

K. DRAWING A8.01 – MARINE BUILDING INTERIOR ELEVATIONS (SHEET 412) – DETAIL 2 100 BREAK ROOM N

1. **REVISE** the abbreviation TPD (x4 locations) to read as follows:

TPD PTD

L. DRAWING A8.02 – MARINE BUILDING INTERIOR ELEVATIONS (SHEET 413) – DETAIL 11 105 KITCHEN N

1. **REVISE** the abbreviation TPD (x4 locations) to read as follows:

TPD PTD

M. DRAWING A50.02 – MARINE BUILDING VERTICAL CIRCULATION DETAILS (SHEET 432) – DETAIL 4 ELEVATOR – PIT LADDER

1. **REVISE** the width of the pit ladder dimension from 1'-2" from outside of rungs to 1'-4" from insides of rungs.
2. **REVISE** the offset of the ladder 3.5" max from the outside face of ladder to the face of wall to 4.5" max from centerline of rung to face of wall.

N. DRAWING M1.02 – MARINE BUILDING SCHEDULES (SHEET 471) – EXHAUST FAN SCHEDULE

1. **ADD** note 3 from NOTES FOR EXHAUST FAN SCHEDULE to NOTES column for UNIT NO. EF-1 and EF-2.

O. DRAWING M1.02 – MARINE BUILDING SCHEDULES (SHEET 471) – RELIEF ROOF HOOD SCHEDULE

1. ADD note 1 from NOTES FOR RELIEF ROOF SCHEDULE to REMARKS column for UNIT NO. RH-1.

P. DRAWING E1.00 – MARINE BUILDING ELECTRICAL FIXTURE SCHEDULE AND MECHANICAL CONNECTION SCHEDULE (SHEET 488)

1. **REVISE** light fixture RL3 Description as follows:

~~KENALL 26L40K-DV-SCC-FW-CSS-8~~ MRDL6ICL-26340K-DV-SCC-FW-CSS-8

2. **REVISE** light fixture RL3E Description as follows:

~~KENALL 26L40K-DV-SCC-FW-CSS-8-EL~~ MRDL6ICL-26340K-DV-SCC-FW-CSS-8-EL

3. **REVISE** light fixture RL3E Mounting and Remarks as follows:

~~6" ROUND, LENSED, RECESSED LED DOWNLIGHT FIXTURE. IC RATED. PROVIDE WITH INTEGRAL EMERGENCY BATTERY 500 LUMEN. 6" ROUND, LENSED, WET LOCATION, IC RATED, RECESSED DOWNLIGHT LED FIXTURE. PROVIDE FIXTURE WITH REMOTE EMERGENCY DRIVER WITH MINIMUM OF 500 OUTPUT LUMEN.~~

4. **REVISE** light fixture PL2E Mounting and Remarks to include the following:

MOUNT WITH BOTTOM OF FIXTURE AT 9'-6" AFF.

5. **REVISE** light fixture WL4E Mounting and Remarks to include the following:

MOUNT WITH TOP OF FIXTURE AT 7'-8" AFF, APPROXIMATELY EVEN WITH THE TOP OF THE BEAM FRAMING.

K. DRAWING E2.01 – MARINE BUILDING LEVEL 1 AND LEVEL 2 LIGHTING PLAN (SHEET 489) – DETAIL 1 LEVEL 1 LIGHTING PLAN

1. ADD low voltage Switch LV2 location on east wall side adjacent to the Kitchen 105 corner wall by gridlines 3/C.3.

L. DRAWING E2.01 – MARINE BUILDING LEVEL 1 AND LEVEL 2 LIGHTING PLAN (SHEET 489) – DETAIL 1 LEVEL 2 LIGHTING PLAN

1. ADD a ceiling mounted vacancy sensor VC to Super Cargo room 206.
2. ADD a ceiling mounted vacancy sensor VC to Super Cargo room 210.

M. DRAWING E5.01 – MARINE BUILDING ELECTRICAL DETAILS (SHEET 494) – TYPICAL DAYLIGHT HARVESTING 1 OR 2 RELAY ROOM CONTROLLER WIRING DETAIL – ENCLOSED OFFICE WITH DAYLIGHT

1. **REVISE** low voltage switch LV2 to a two-button switch. Revise function to say KITCHEN ON AND KITCHEN OFF. (See Attachment K to this Addendum No. 3)
2. **REVISE** low voltage switch LV4 to a four-button switch. (See Attachment K to this Addendum No. 3)

Receipt for this addendum shall be indicated in the space provided in Section 00 41 00, Bid Form.

END OF SECTION

ATTACHMENTS:

ATTACHMENT A - SECTION 00 41 00 BID FORM
ATTACHMENT B - SECTION 26 22 13.01 DRY TYPE TRANSFORMER
ATTACHMENT C - DRAWING G7.1 – EXISTING CONDITIONS PLAN (SHEET 11)
ATTACHMENT D - DRAWING D1.2 – UTILITY AND SITE DEMOLITION PLAN – SHEET 2 (SHEET 21)
ATTACHMENT E - DRAWING C3.1 – SLOPE PROTECTION PLAN (SHEET 52)
ATTACHMENT F - DRAWING C3.3 – SLOPE PROTECTION SECTIONS – SHEET 2 (SHEET 54)
ATTACHMENT G - DRAWING S4.2 – PILE AND PILE CAP PLAN – SHEET 2 (SHEET 180)
ATTACHMENT H - DRAWING S27.45 – DECK PANEL DETAILS – SHEET 45 (SHEET 340)
ATTACHMENT I - DRAWING S27.48 – DECK PANEL DETAILS – SHEET 48 (SHEET 343)
ATTACHMENT J - DRAWING S36.1 CRANE STOP DETAILS (SHEET 369)
ATTACHMENT K - ESK-1 Daylight Harvesting Lighting Controller Wiring Detail

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
SECTION 00 41 00 - BID FORM - ADDENDUM NO. 03

BIDDER'S NAME: _____

PROJECT TITLE: PIER 4 PHASE 2 RECONFIGURATION

The undersigned Bidder declares that it has read the specifications, understands the conditions, has examined the site, and has determined for itself all situations affecting the work herein bid upon. Bidder proposes and agrees, if this bid is accepted, to provide at Bidder's own expense, all labor, machinery, tools, materials, etc., including all work incidental to, or described or implied as incidental to such items, according to the bidding documents, and that the Bidder will complete the work within the time stated, and that Bidder will accept in full payment therefore the lump sums and unit prices set forth below.

Proposed Bid Price. (Note: Show prices in figures only.) Complete Installation:

ITEM NO.	DESCRIPTION OF ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE
1	Mobilization and Demobilization	1	LS		
2	Project Administration	1	LS		
3	Field Engineering	1	LS		
4	Demolition	1	LS		
5	Exploratory Excavation	1,160	CY		
6	Removal of Buried Timber Bulkhead Wall	700	LF		
7	Stone Columns	69,171	LF		
8	Riprap and Debris Removal and Disposal	1	LS		
9	Dredging and Disposal	465,000	CY		
10	Filter Blanket	<u>14,950</u> 14,800	TON		
11	Light Rock Riprap	<u>32,500</u> 32,200	TON		
12	Heavy Rock Riprap	36,000	TON		
13	Furnish 24-inch Concrete Pile	174,121	LF		
14	Install 24-inch Concrete Pile - Wharf Plumb Piles	1,197	EA		
15	Install 24-inch Concrete Pile - Wharf Batter Piles	36	EA		
16	Install 24-inch Concrete Piles - Mooring Dolphin Piles	8	EA		
17	Dynamic Pile Driving Analysis	20	EA		

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
 SECTION 00 41 00 - BID FORM - ADDENDUM NO. 03

ITEM NO.	DESCRIPTION OF ITEM	QTY	UOM	UNIT PRICE	EXTENDED PRICE
18	Re-strike Concrete Piles	50	EA		
19	Pile Cut-offs (lengths greater than 10 feet)	50	EA		
20	Concrete Pile Build-ups	40	EA		
21	Furnish and Install Sheet Piles	1,308	LF		
22	Construct Mooring Dolphin	1	LS		
23	Wharf Construction	1	LS		
24	Wharf Fender System	1	LS		
25	Furnish and Install Crane Rail	1	LS		
26	Concrete Spall Repairs to Existing Pier 4	118	SF		
27	Storm Drain, Water and Sanitary Sewer Systems	1	LS		
28	Electrical and Communications Site Work	1	LS		
29	Electrical Substation	1	LS		
30	Ballast and Base Course for Asphalt Paving	17,940	TON		
31	Asphalt Paving	22,220	TON		
32	Marine Building	1	LS		
33	All Other Work	1	LS		
34	Stone Column Obstructions Allowance	1	LS	\$50,000	\$50,000
35	Unforeseen Dredging Debris Removal Allowance	1	LS	\$100,000	\$100,000
36	Unforeseen Conditions Allowance	1	LS	\$100,000	\$100,000
37	Screened Dredging Premium Allowance	300	HR		
BASE BID SUBTOTAL					

Evaluation of Bids. In accordance with the provisions of these Contract Documents, Bids will be evaluated to determine the lowest Base Bid Subtotal offered by a responsible Bidder submitting a responsive bid.

Addenda. Bidder acknowledges review of all Addenda through No. _____

Trench Excavation Safety Provision. If the bid amount contains work which requires trenching exceeding a depth of 4 feet, all costs for trench safety shall be included in the Base Bid and indicated below for adequate trench safety systems in compliance with RCW 39.04 and WAC 296-155-650. Bidder shall include a lump sum amount, excluding Washington State Sales Tax. If trench excavation safety provisions do not pertain to the Work, the Bidder should enter "N.A." or "Not Applicable" in the blank on the Bid Form.

Trench Excavation Safety: _____ (Total in Written Figures Only)

Principal Subcontractors/Suppliers. The bidder shall list below the name of each subcontractor or supplier to whom the bidder proposes to subcontract the portions of the work listed below, or name itself for the work.

Work to be Performed	Name of Firm
HVAC (Heating, Ventilation and Air Conditioning) Work	
Plumbing Work as described in RCW 18.106	
Electrical Work as described in RCW 19.28	

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DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
SECTION 00 41 00 - BID FORM - ADDENDUM NO. 03

Noncollusion. The undersigned declares under penalty of perjury that the bid submitted is a genuine and not a sham or collusive bid, or made in the interest or on behalf of any person or firm not therein named; and further says that the said bidder has not directly or indirectly induced or solicited any bidder on the above work or supplies to put in a sham bid, or any other person or corporation to refrain from bidding; and that said bidder has not in any manner sought by collusion to secure to the bidder an advantage over any other bidder or bidder.

Name of Firm

Date

Signature

Print Name, Title

Mailing Address

City, State, Zip Code

Telephone Number

Email Address

WA State Contractor's License No.

Date of Issue
Date

Expiration

Unified Business Identifier (UBI) No.

Employment Security Department No.

Identification of Contractor as a sole proprietor, a partnership, a joint venture, a corporation or another described form of legal entity

END OF SECTION

PART 1 - GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. The provisions and intent of the Contract, including the General Conditions and General Requirements, apply to this work as if specified in this section.

1.02 SCOPE

- A. Furnish and install dry type isolation transformers of the types, sizes and quantities indicated on the contract drawings. Provide all lugs, accessories and mounting hardware necessary for proper installation and operation.

1.03 SUBMITTALS

- A. Provide product information prior to fabrication and installation. Product data shall include all dimensions, weights, electrical ratings, wiring diagrams and required clearances.
- B. When requested, provide additional product data and certifications necessary to show conformance with this specification.
- C. Provide information for record purposes including field test reports and maintenance data as required.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Tierney.
- B. Sorgel Quiet Quality.
- C. General Electric QL.
- D. Federal Pacific.
- E. Similar units by Cutler-Hammer, Acme or Hevi-Duty may be utilized if the core and coil assembly is mounted on rubber isolation pads.

2.02 STANDARDS

- A. ANSI C57.12: General Requirements for Distribution, Power, and Regulating Transformers.
- B. Underwriters Laboratories Standard 1561.
- C. NEMA ST-20: Dry-Type Transformers for General Applications.
- D. Transformers shall be NEMA TP-1 Energy Efficient compliant.

2.03 SHOP DRAWINGS

- A. Prepare and submit for review prior to manufacture; include dimensioned front plan and section views, wiring and connection diagrams and bolting template. Contractor shall indicate on the drawings, mounting methods and connection lugs required.

2.04 CABINET

- A. Steel panel enclosure over core, coil, and terminal chamber with louvered openings for convection cooling. Cooling and terminal access shall be possible with both sides and rear of enclosure obstructed.
- B. Provide weatherproof or special enclosure when required for environment in which it is located.

2.05 WINDINGS

- A. Separate primary and secondary. Windings shall have Class H insulation and shall be rated for continuous operation at rated KVA with temperature rise of not over 150 degrees C above a 40 degree C ambient, with a maximum hot spot temperature of 220 degrees C. Windings and core and coil assembly shall be treated and built to resist the effects of dirt and moisture.
- B. Core coil shall be mounted on rubber isolation mounting pads. Cores shall have a common core construction having low hysteresis and eddy current losses grounded to the transformer core. The neutral bus shall be sized and configured for at least 200% of the secondary full load current. Transformer impedance shall be a minimum of 3 and a maximum of 5%. The transformer shall be UL listed and suitable for non-sinusoidal loads with a K factor of 4.

2.06 PRIMARY TAPS

- A. Four full capacity taps, minimum of two 2-1/2 percent above and two 2-1/2 percent below normal (rated) primary voltage.

2.07 CONNECTIONS

- A. Unless noted otherwise, three phase transformers shall have a 480 volt delta connected primary and 208Y/120 volt, three phase, four wire connected secondary, single phase transformers shall be 480 volt primary, 120/240 volt secondary. Provisions for external connections shall be made by means of a terminal board employing lugs conforming with Section 26 05 19 which are compatible with the external conductors installed. (Note: aluminum conductors require special lugs.) All connections shall be accessible for front and top of cabinet.

2.08 NOISE LEVEL

- A. Noise level shall not exceed ANSI Standard C89.2 sound levels of 45 db for sizes less than 51 KVA, 50 db for 51-150 KVA, 55 db for 151-300 and 60 db for greater than 300 as measured by NEMA ST20.

2.09 EFFECIENCY

- A. Dry transformers shall have a minimum efficiency that complies with NEMA TP-1-2002.

2.10 VIBRATION ISOLATORS

- A. Spring vibration isolators shall be B-Line model HMT or equal with neoprene top and base.
- B. Vibration pads shall be cork, neoprene, and steel construction, B-Line model CNNK or equal.

C. Neoprene pad spacers shall be B-Line model NNP or equal.

PART 3 - EXECUTION

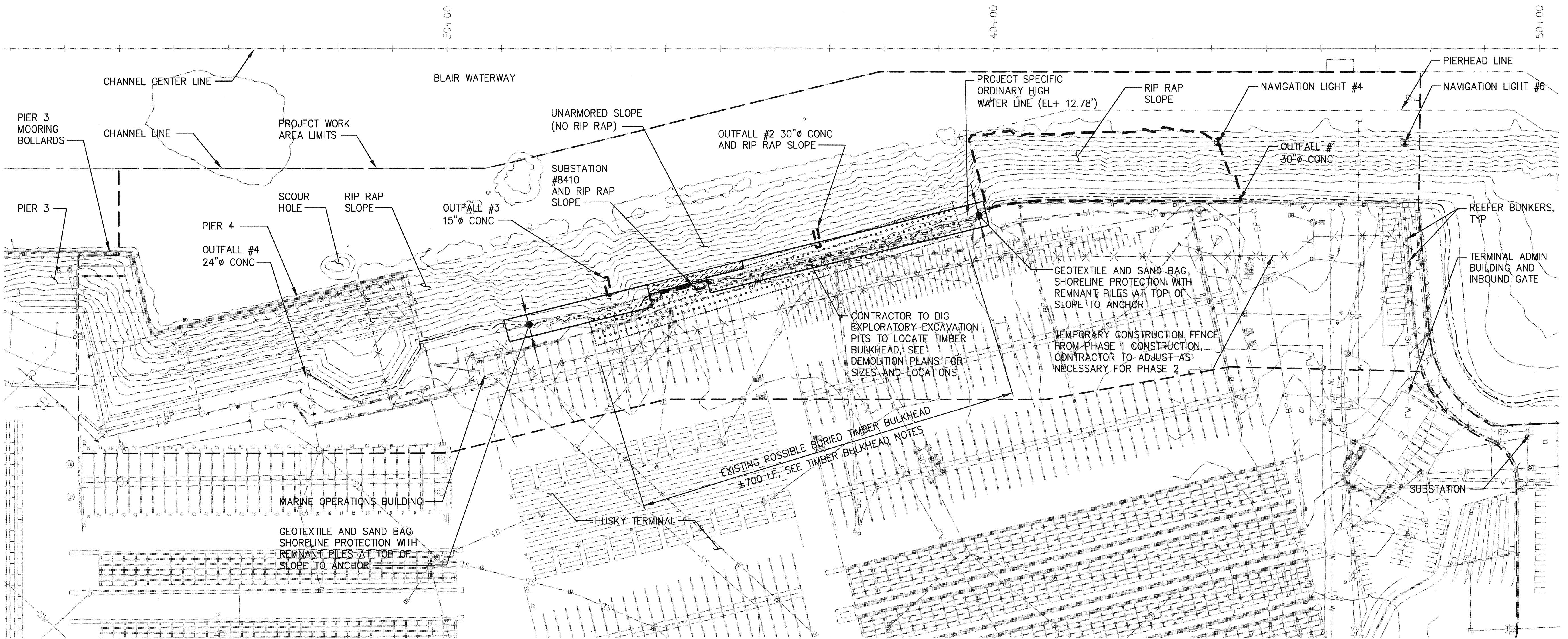
3.01 MOUNTING

- A. Transformers shall be attached to the building structure to prevent overturning in the event of earthquake. All attachment nuts to have washer and rubber pad spacer under them. Provide neoprene pad spacers under mounting rails. Transformers shall be mounted on floor, wall or suspended from ceiling as noted in the contract documents or as required. Remove all shipping blocks prior to installation.
- B. Transformers with enclosures designed for floor mounting where suspended from ceiling shall be suspended on a trapeze constructed of a minimum of two horizontal structural channels hung from threaded rods attached to structural members or inserts in structural slab. Channel, rod, and inserts shall be sized for not less than 400% load safety factor.
- C. Transformers shall be installed with four spring vibration isolators, one at each corner, when any of the following conditions are present. Size each isolator for the full transformer weight.
 1. Transformer is 45 KVA or larger.
 2. Transformer is located higher than one floor above grade.
 3. Transformer is noted "SIM" in the contract documents.
- D. All transformers mounted directly on a wall shall be mounted with vibration pads sized to give 400% safety factor.

3.02 CONNECTIONS

- A. 208/120 volt three phase secondary transformers shall be considered "grounded neutral separately derived systems" and be grounded per code accordingly.
- B. Transformer raceway connections shall be flexible metal raceway. See Specification Section 26 05 33.
- C. Voltage Tap Connection: Connect all transformers at "normal" tap. After facility is completely energized, measure secondary voltages at all transformers and service switchboard. Forward a list to the Engineer for evaluation. Include copy in O&M Manuals. Reconnect taps as subsequently directed.

END OF SECTION



TIMBER BULKHEAD NOTES

1. PORT OF TACOMA RECORD DRAWINGS INDICATE THAT A BURIED, STEPPED TIMBER BULKHEAD WALL SYSTEM MAY EXIST WITHIN THE PROPOSED DREDGE PRISM AND WITHIN A PORTION OF THE STONE COLUMN INSTALLATION AREA. SEE RECORD DRAWINGS TITLED PORT OF TACOMA PIER IV BULKHEAD CONSTRUCTION (EP-1318-4, SHEETS 1 THROUGH 3) REFERENCED IN SPECIFICATION SECTION 00 31 00 – AVAILABLE PROJECT INFORMATION. THE EXISTENCE, LOCATION, AND EXTENT OF THE BURIED BULKHEAD WALL SYSTEM IS UNKNOWN AND SHALL BE DETERMINED THROUGH EXPLORATORY EXCAVATION AS SHOWN ON DEMOLITION PLANS.
2. THIS DRAWING INDICATES THE ANTICIPATED LOCATION OF THE BURIED TIMBER BULKHEAD WALL SYSTEM IF IT EXISTS, BASED ON CORRELATION BETWEEN THE ABOVE REFERENCED RECORD DRAWINGS AND RECORD DRAWINGS FOR CONSTRUCTION OF THE ORIGINAL PIER 4 STRUCTURE THAT WAS DEMOLISHED IN PHASE 1 OF THE PIER 4 RECONFIGURATION PROJECT.

EXISTING CONDITIONS PLAN

SCALE: 1"=100'

LEGEND

PROJECT WORK AREA LIMITS

PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL +12.78')

RIP RAP SLOPE AREA AROUND WORK LIMITS

POSSIBLE BURIED TIMBER BULKHEAD, SEE TIMBER BULKHEAD NOTES

CONCRETE BATTER PILES

PROJECT NORTH

100' 0 100' 200'

50' 150'

SCALE: 1"=100'

PIER 4 PHASE 2 RECONFIGURATION EXISTING CONDITIONS PLAN

6552	TOWNSHIP:	RANGE:	SECTION:
G7.1	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @	DRAWING SCALE:
SH 11 OF 499	PARCEL:		
CONT/CONS: 070136	M. ID: 091251	PHASE: BID	

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TIMBER BULKHEAD NOTES

- EXPLORATORY EXCAVATION PIT #1 SHALL BE EXCAVATED FIRST. BASED ON THE FINDINGS FROM PIT #1, THE ENGINEER WILL DIRECT THE CONTRACTOR TO EITHER CONTINUE TO EXCAVATE AT THAT LOCATION OR TO BEGIN EXCAVATION AT PIT #2. PIT #3 WILL BE EXCAVATED AT THE DIRECTION OF THE ENGINEER BASED ON THE FINDINGS FROM PIT #2.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TIMBER BULKHEAD WALL SYSTEM AT THE DIRECTION OF THE ENGINEER SHOULD EXPLORATORY EXCAVATION PROVE THAT IT EXISTS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- CONTRACTOR SHALL ASSUME THAT ALL TIMBER PILES, BRACES, PLANKING, AND MISCELLANEOUS TIMBER FRAMING ELEMENTS IN THE WALL SYSTEM ARE CREOSOTE TREATED. DISPOSAL OF CREOSOTE TREATED MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL TIMBER PILES WITHIN THE AREA OF WALL SYSTEM REMOVAL SHALL BE COMPLETELY EXTRACTED. (APPROX. 280)

5. SOIL EXCAVATED WITHIN THE DREDGE PRISM FOR EXPLORATORY EXCAVATION AND/OR REMOVAL OF THE WALL SYSTEM MAY BE DISPOSED OF AT THE DMMP OPEN WATER DISPOSAL SITE ALONG WITH OTHER DREDGED MATERIAL. SOIL EXCAVATED OUTSIDE OF THE DREDGE PRISM SHALL BE BACKFILLED INTO PIT AND COMPAKTED IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS.

6. WORK REQUIRED FOR EXPLORATORY EXCAVATIONS AND WALL SYSTEM REMOVAL THAT OCCUR WATERWARD OF THE OHWM (EL 12.78') IS SUBJECT TO IN-WATER WORK RESTRICTIONS FOR THE PROJECT.

MATCH LINE SEE SHEET D1.1

MATCH LINE SEE SHEET D1.3

UTILITY AND SITE DEMOLITION PLAN

SCALE: 1"=40'

- PRIOR TO BEGINNING WATER LINE DEMOLITION, FIELD LOCATE AND CLOSE EXISTING GATE VALVES.
- ABANDON EXISTING WATER LINE.
- ABANDON EXISTING STORM DRAIN LINE.
- CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SIZE AND MATERIAL PER PLAN.
- DEMOLISH EXISTING 4"Ø DOMESTIC WATER LINE.
- REMOVE EXISTING PAVEMENT MARKINGS FROM EXISTING PIER 4 STRUCTURE WHICH IS TO REMAIN IN PLACE.
- DEMOLISH EXISTING FIRE WATER LINE.
- DEMOLISH EXISTING STORM DRAIN LINE.
- DEMOLISH EXISTING CLEAN OUT.
- DEMOLISH EXISTING GATE VALVE.
- PROTECT-IN-PLACE EXISTING FIRE WATER LINE.
- TEMPORARILY CUT AND CAP EXISTING WATER LINE PER DETAIL 1 ON SHEET D2.1, SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.

- TEMPORARILY CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE, SEE SHEETS C5.1 THRU C5.3 FOR FUTURE CONNECTION.
- DEMOLISH CONCRETE OUTFALL PIPE.
- DEMOLISH EXISTING AIR RELEASE VALVE, TEMPORARILY CUT AND CAP PRESSURIZED WATER LINE PER DETAIL 1 ON SHEET D2.1. SEE UTILITY SHEETS C6.1 THRU C6.4 FOR FUTURE CONNECTION.
- DEMOLISH EXISTING STORM DRAIN CATCH BASIN AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
- DEMOLISH EXISTING STORM DRAIN MANHOLE AND BACKFILL HOLE IF OUTSIDE OF DREDGE CUTBACK.
- DEMOLISH EXISTING SANITARY SEWER GRAVITY LINE AND CONNECTED STRUCTURES.
- CUT AND CAP EXISTING SANITARY SEWER GRAVITY LINE PER DETAIL 1 ON D2.1.
- CUT AND CAP EXISTING STORM DRAIN GRAVITY LINE PER DETAIL 1 ON D2.1.
- DEMOLISH MARINE OPERATIONS BUILDING, ADJACENT CONCRETE PADS, ASSOCIATED STRUCTURES, BOLLARDS, WHEEL STOPS, AND UTILITIES.

- DEMOLISH EXISTING ELECTRICAL SUBSTATION, ASSOCIATED CONCRETE PADS, VAULTS AND UTILITY LINES UNLESS NOTED OTHERWISE, ONLY AFTER TEMPORARY POWER SYSTEMS HAVE BEEN INSTALLED, SEE ELECTRICAL PLANS FOR TEMPORARY ELECTRICAL SERVICE AND DEMOLITION.
- DEMOLISH REMNANT CONCRETE PAD.
- PROTECT-IN-PLACE EXISTING FIRE AND DOMESTIC WATER LINES AT HIGH MAST LIGHT POLE, SEE UTILITY AND ELECTRICAL PLANS.
- PRIOR TO START OF WORK SALVAGE EXISTING ECOLOGY BLOCKS AND PLACE INSIDE TEMPORARY CONSTRUCTION FENCE PER DETAIL 3 ON G8.6. SHOWN OFFSET FROM PAVEMENT EDGE FOR CLARITY.
- DEMOLISH EXISTING FLUSH FIRE HYDRANT, VAULT AND ALL APPURTENANCES. IF HYDRANT IS OUTSIDE DREDGE CUTBACK, CUT AND CAP DRAIN LINE, PER DETAIL 3 ON D2.1.
- DEMOLISH EXISTING GEOTEXTILE AND SANDBAG SHORELINE PROTECTION SYSTEM.
- REMOVE RIP RAP AND APPROXIMATELY 1,300 LF OF REMNANT CONCRETE PILE DEBRIS IN FRONT OF THE SUBSTATION, SEE SHEET C2.1 FOR RIP RAP REMOVAL.
- EXTRACT (33) 16-1/2"Ø CONCRETE BATTER PILES LEFTOVER FROM PHASE 1. APPROXIMATE PILE LENGTH=75' EACH.

EXTRACT DRIVEN TIMBER PILES (APPROX 5)
(APPROX 41'x40'x3')
(APPROX 40'x40'x2' BURIED)

NOTES

- THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DRAWINGS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- SEE SITE ELECTRICAL DEMOLITION PLANS E2.1 AND E2.2 FOR ELECTRICAL AND COMMUNICATION DEMOLITION REQUIREMENTS, INCLUDING HIGH MAST LIGHT POLE DEMOLITION REQUIREMENTS.
- UTILITIES, STRUCTURES AND SITE FEATURES NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
- ALL ITEMS MARKED FOR DEMOLITION SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PER THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED FOR SALVAGE IN SPECIFICATIONS, SEE SECTION 02 41 00.
- SEE SHEET D2.2 FOR SAWCUT CONTROL.
- REFER TO SPECIFICATION SECTION 01 14 00, WORK RESTRICTIONS FOR WORK SEQUENCE, SCHEDULE CONSTRAINTS, AND WORK LOCATED OUTSIDE OF THE PROJECT WORK AREA LIMITS.

LEGEND

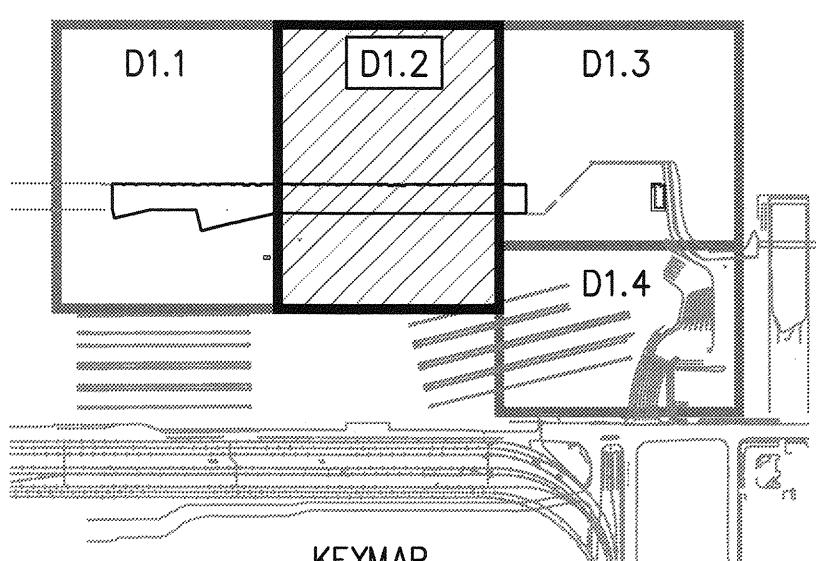
- PROJECT WORK AREA LIMITS
- DEMOLITION LIMIT LINE
- DREDGE BOUNDARY / TOP OF SLOPE
- DEMOLISH AND REMOVE EXISTING UTILITY STRUCTURE AND APPURTENANCES
- DEMOLISH ASPHALT PAVING AND BASE COURSE. SAWCUT AS REQUIRED
- DEMOLISH EXISTING BUILDING
- DEMOLISH EXISTING ELECTRICAL SUBSTATION
- TIMBER BULKHEAD EXPLORATORY EXCAVATION PIT
- CONC BATTER PILE TO BE DEMOLISHED
- RIP RAP SLOPE TO BE DEMOLISHED
- DEMOLISH ASPHALT PAVING AND PIER BALLAST. SAWCUT AS REQUIRED
- CUT AND CAP EXISTING UTILITY

30 DEMOLISH REMNANT CONCRETE PILE ANCHORS AT TOP OF SLOPE.

31 6' DEEP EXPLORATORY EXCAVATION PIT FOR BURIED TIMBER BULKHEAD WALL SYSTEM. SEE SHEET D2.2 FOR HORIZONTAL CONTROL. PITS TO BE BACKFILLED AND COMPAKTED PER SPECIFICATIONS.

32 POSSIBLE BURIED TIMBER BULKHEAD WALL SYSTEM OUTLINE, APPROX. 700'x60'. SEE TIMBER BULKHEAD NOTES.

33 REMOVE AND SALVAGE LIGHT POLE. DEMOLISH CONCRETE BASE. SEE DETAIL 1 ON D2.2 AND SEE ELECTRICAL DEMOLITION PLANS FOR SEQUENCING.



EXISTING ECOLOGY BLOCKS

DEMOLISH AND REMOVE EXISTING UTILITY PER KEY NOTES

PHOTO ORIENTATION, SEE SHEET D2.2

SAWCUT CONTROL POINT, SEE SHEET D2.2

PROJECT NORTH

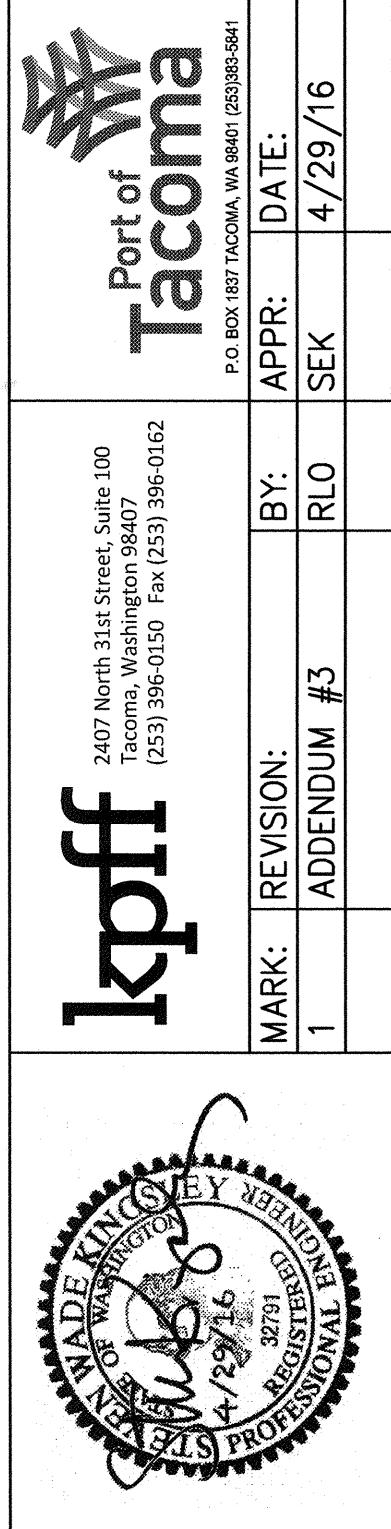
40' 0' 40' 80'

20' 60'

SCALE: 1"=40'

D1.2

PIER 4 PHASE 2
RECONFIGURATION
UTILITY AND SITE DEMOLITION PLAN - SHEET 2



Port of
Tacoma

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

PROFESSIONAL ENGINEER
REGISTRATION NO. 42716
PROFESSIONAL
ENGINEER
REGISTRATION
NO. 42716
PROFESSIONAL
ENGINEER
REGISTRATION
NO. 42716

2/29/16

2016

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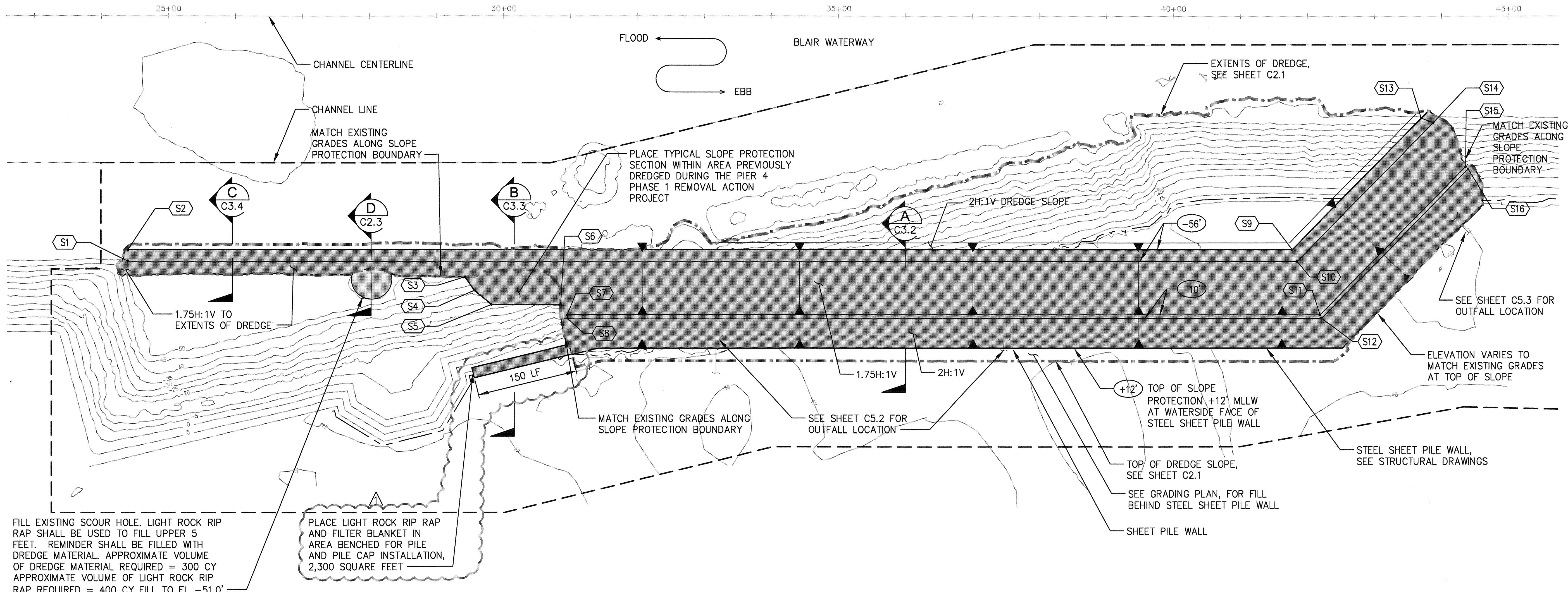
2016

2016

2016

2016

2016



NOTES

- SEE SHEET C3.2, TYPICAL SLOPE PROTECTION FOR SLOPE PROTECTION MATERIALS AND THICKNESSES.

LEGEND

- EXISTING CONTOUR
- PROJECT WORK AREA LIMITS
- SLOPE PROTECTION CONTROL POINT
- STORM DRAIN OUTFALL, SEE DRAINAGE PLANS
- FINISH GRADE ELEVATION
- REVETMENT SLOPE
- PROJECT SPECIFIC ORDINARY HIGH WATER LINE (EL. +12.78')
- LIMITS OF SLOPE PROTECTION
- EXTENTS OF DREDGE, SEE SHEET C2.1

SLOPE PROTECTION CONTROL POINTS

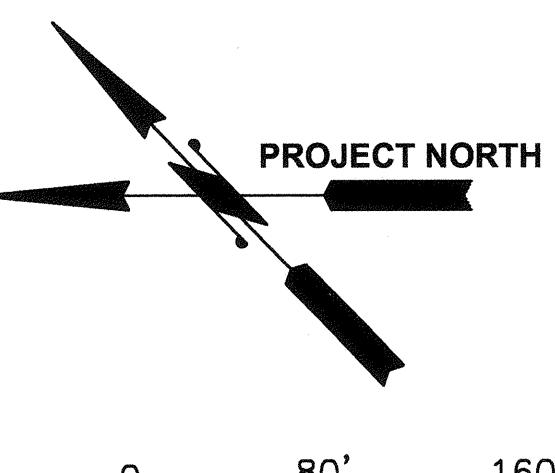
POINT ID	NORTHING	EASTING
S1	713732.71	1166270.69
S2	713745.28	1166282.87
S3	713365.81	1166615.33
S4	713341.47	1166611.06
S5	713308.56	1166614.74
S6	713236.42	1166688.35
S7	713218.73	1166685.30
S8	713214.88	1166681.56
S9	712535.89	1167530.74

NOTES:

- CONTROL POINTS REPRESENT TOP OF FINISHED ROCK FACE..

SLOPE PROTECTION CONTROL POINTS

POINT ID	NORTHING	EASTING
S10	712518.22	1167523.83
S11	712436.90	1167492.06
S12	712431.48	1167489.95
S13	712542.70	1167805.67
S14	712525.40	1167813.75
S15	712444.60	1167802.82
S16	712439.24	1167802.95



80' 0 80' 160'
40' 120'

SCALE: 1"=80'

C3.1

PIER 4 PHASE 2 RECONFIGURATION SLOPE PROTECTION PLAN

Port of Tacoma

P.O. BOX 1651 TACOMA, WA 98466 (253) 396-0162

2407 North 31st Street, Suite 100

Tacoma, Washington 98407

(253) 396-0150 Fax (253) 396-0162

APPR: SJS

DATE: 4/28/2016

MARK: 1

REVISION: #3

ADDEDUM #3

BY: SJS



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(253) 396-0150 Fax (253) 396-0162

APPR: SJS

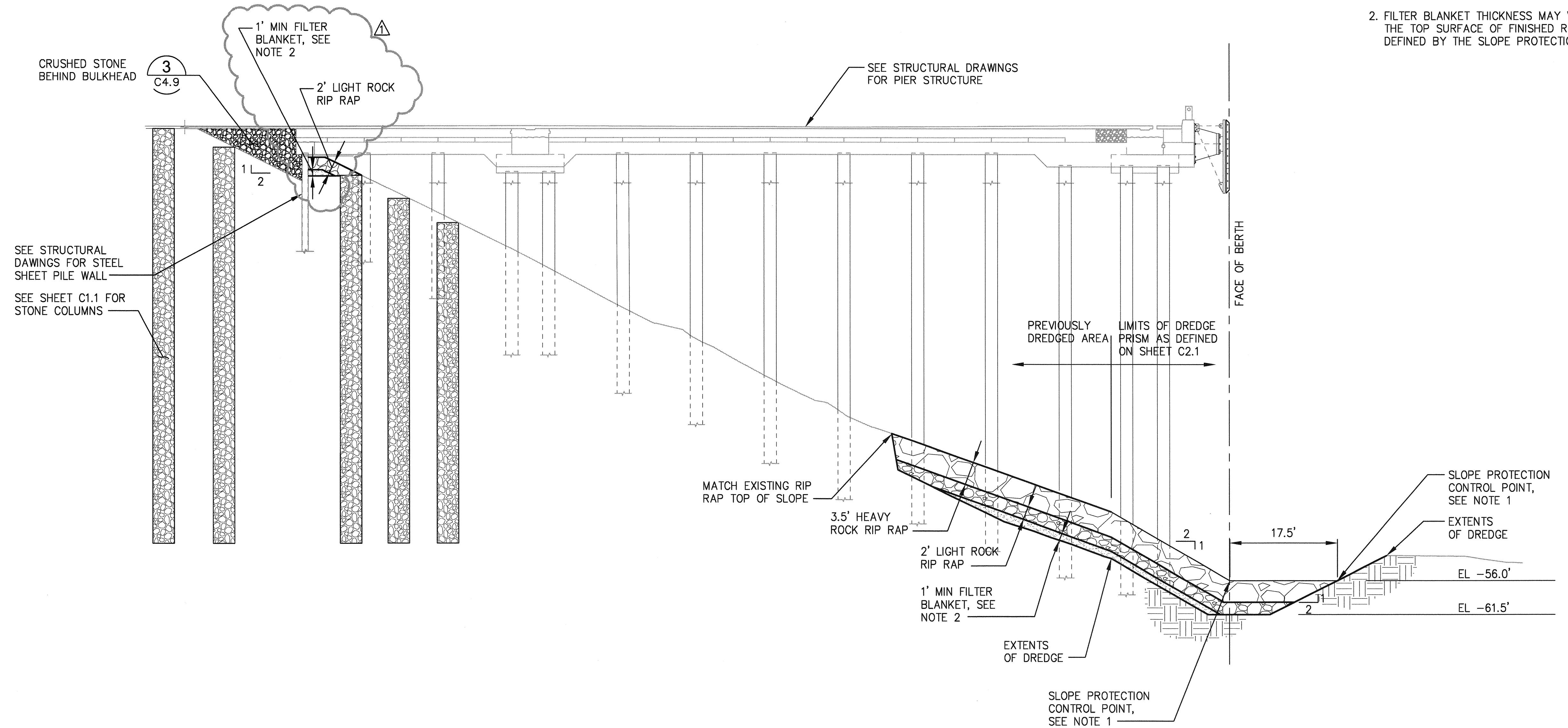
DATE: 4/28/2016

MARK: 1

REVISION: #3

ADDEDUM #3

BY: SJS



NOTES

1. SEE C3.1 FOR SLOPE PROTECTION CONTROL POINT COORDINATES.
2. FILTER BLANKET THICKNESS MAY VARY TO ACHIEVE THE TOP SURFACE OF FINISHED ROCK FACE AS DEFINED BY THE SLOPE PROTECTION CONTROL POINTS.

C3.3		PIER 4 PHASE 2 RECONFIGURATION		PIER 4 PHASE 2 RECONFIGURATION	
SH 54 OF 499		SLOPE PROTECTION SECTIONS - SHEET 2		SLOPE PROTECTION SECTIONS - SHEET 2	
CONT. CONS.:	070136	TOWNSHIP:	MLLW 19.39 @ Tide 22 1933	SECTION:	MLLW 19.39 @ Tide 22 1933
M. ID:	091251	DATA-HRZ:	WA83-SF	RANGE:	VERT: AS NOTED
PHASE:	BID	PARCEL:		DRAWING SCALE:	AS NOTED
TACOMA, WA 98401-1837					
2407 North 31st Street, Suite 100 Tacoma, Washington 98401-1837 (253) 396-0150 Fax (253) 396-0162					
P.O. BOX 687 TACOMA, WA 98401-6876					
APPR: DATE: 4/28/2016					
MARK:	REV: 1	BY: SJS	ADDENDUM #3	BY: SJS	DATE: 4/28/2016

*MADE KINGSTON
4/28/16
32931
PROFESSIONAL ENGINEER*

kpff

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NOTES:

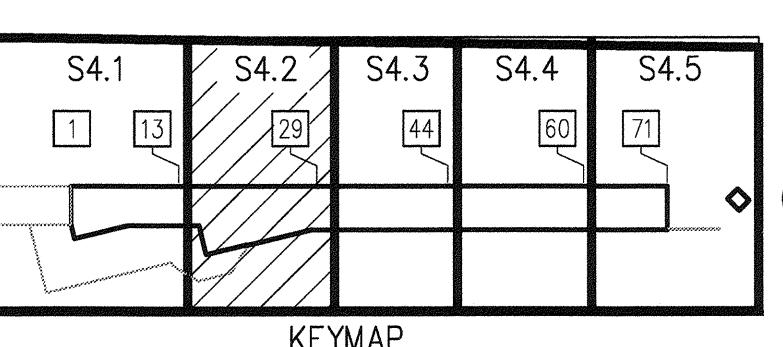
1. SEE S4.1 FOR NOTES
AND LEGEND

12'-0" 12'-0" 12'-0" 12'-0" 12'-0"

PILE AND PILE CAP PLAN

$$/16'' = 1' - 0''$$

SEE C1.1–C1.6 FOR
STONE COLUMN
GROUND IMPROVEMENT



KEYMAP

A diagram of a wind vane. The vane has three arrows pointing in different directions. The text "PROJECT NORTH" is written next to the vane. Below the vane is a scale bar with markings for 8, 16, 32, and 48. The scale bar is labeled "SCALE 1/16" and "1/8".

SCALE: 1/16"=1'-0"

6552
SA.2

— 10 —

<p>6552</p> <p>S4.2</p> <p>PIER 4 PHASE 2</p> <p>RECONFIGURATION</p> <p>PILE AND PILE CAP PLAN - SHEET 2</p>		<p>APPROVED: <i>John Brown</i> SEK <i>5-2-16</i> CHECKED BY DATE</p> <p>DIRECTOR ENG. DATE PROJ. ENGR DATE</p>	
CON/T/CONS: 070136	TOWNSHIP: 21N RANGE: 3E SECTION: 27	PRINTED BY: jhollenbach	DATE: Apr 28, 2016
M. I.D: 0911251	DAT-HRZ: WA83-SF VERT: MLLW 19.39' @ Tide 22 1933	PORT ADDRESS: ONE SITCUM PLAZA	
PHASE: B(I)	PARCEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837
		<p>MARK: REVISION: BY: APPR: DATE:</p> <p>1 ADDENDUM #3 TAH SEK 4/28/2016</p>	
<p>Port of Tacoma</p> <p>P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841</p>			

CL PILE CAP

CL PONY BENT

L

1'-3"

Ln

1'-3"

1'-3"

Ln

1'-3"

A
S27.2

A
-

NOMINAL WIDTH
SEE SCHEDULE

4 SPA @ 8" = 2'-0"

6" = 2'-6" = 5 SPA @ 8"

TYPE L PANEL P2
(SHOWN FOR REFERENCE)

TYPE R PANEL P2A

NOTE: STAGGER BOTTOM BARS IN ADJACENT PANELS AS SHOWN TO AVOID INTERFERENCE AT LAP SPLICES BETWEEN BOTTOM BARS.

B
-

71

CRANE BEAM 1 TYPE "L" & "R" PANEL PLAN

TYPICAL TYPE "R" CRANE BEAM PANEL ELEVATION

NOTES:

1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P2A
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS. ALIGN FACE BARS TO SPLICING WITH FACE BARS FROM PANEL TYPE P2. FACE BARS SHALL BE HEADED AT BENT

This technical drawing illustrates the reinforcement and connections for a concrete beam panel. The panel has a nominal width of 1' and an actual width of 1' - 1/8". A crane stop is located at the center of the panel. The panel is supported by four vertical columns. The reinforcement consists of top bars, bottom bars, and tie bars. The top bars are #10 face bars, and the bottom bars are #6 bars. Tie bars are #6 bars with alternate 135° hooks. The panel is roughened to a 1/4" amplitude minimum. The panel is 2' - 6" high and 2' - 3" wide. The panel is labeled as a PRECAST PANEL. The drawing also shows a match adjacent panel detail with a callout to detail B.

NOMINAL PANEL WIDTH

1/8"

ACTUAL PANEL WIDTH

CL CRANE STOP

ROUGHENED SURFACE TO 1/4" AMPLITUDE, MIN

#6 TIE ALTERNATE 135° HOOK

1/2"

2"

1/2"

5 1/2"

PRECAST PANEL

2' - 6" CIP

2' - 3"

TOP BARS SEE NOTE 1

(2) #10 FACE BARS EF SEE NOTE 4

BOT BARS, SEE NOTE 1

#6

#6

2" CLR

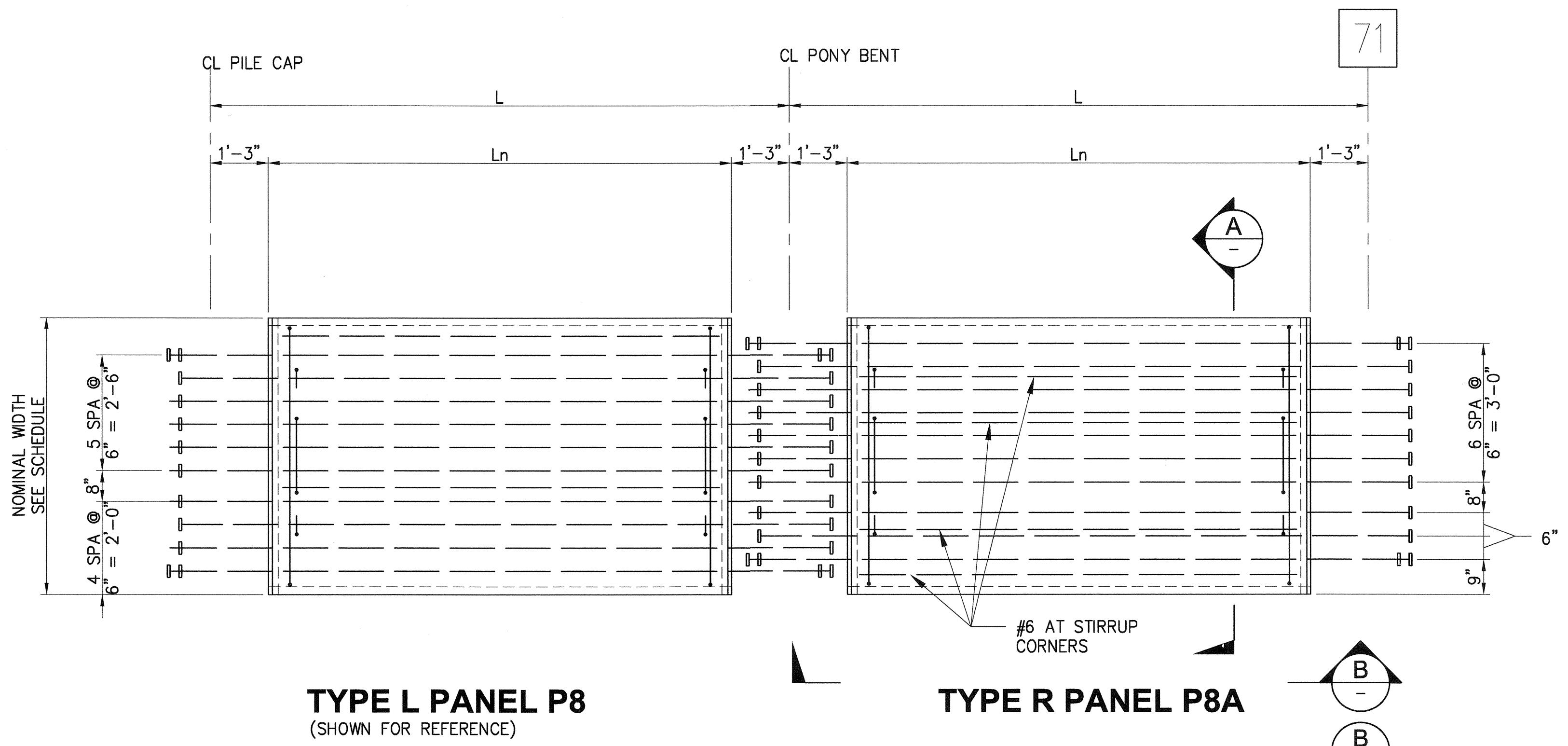
ADD #6 AS SHOWN ON

MATCH ADJACENT PANEL, TYP

B

TYPICAL CRANE BEAM PANEL TYPE "L" SECTION P2A

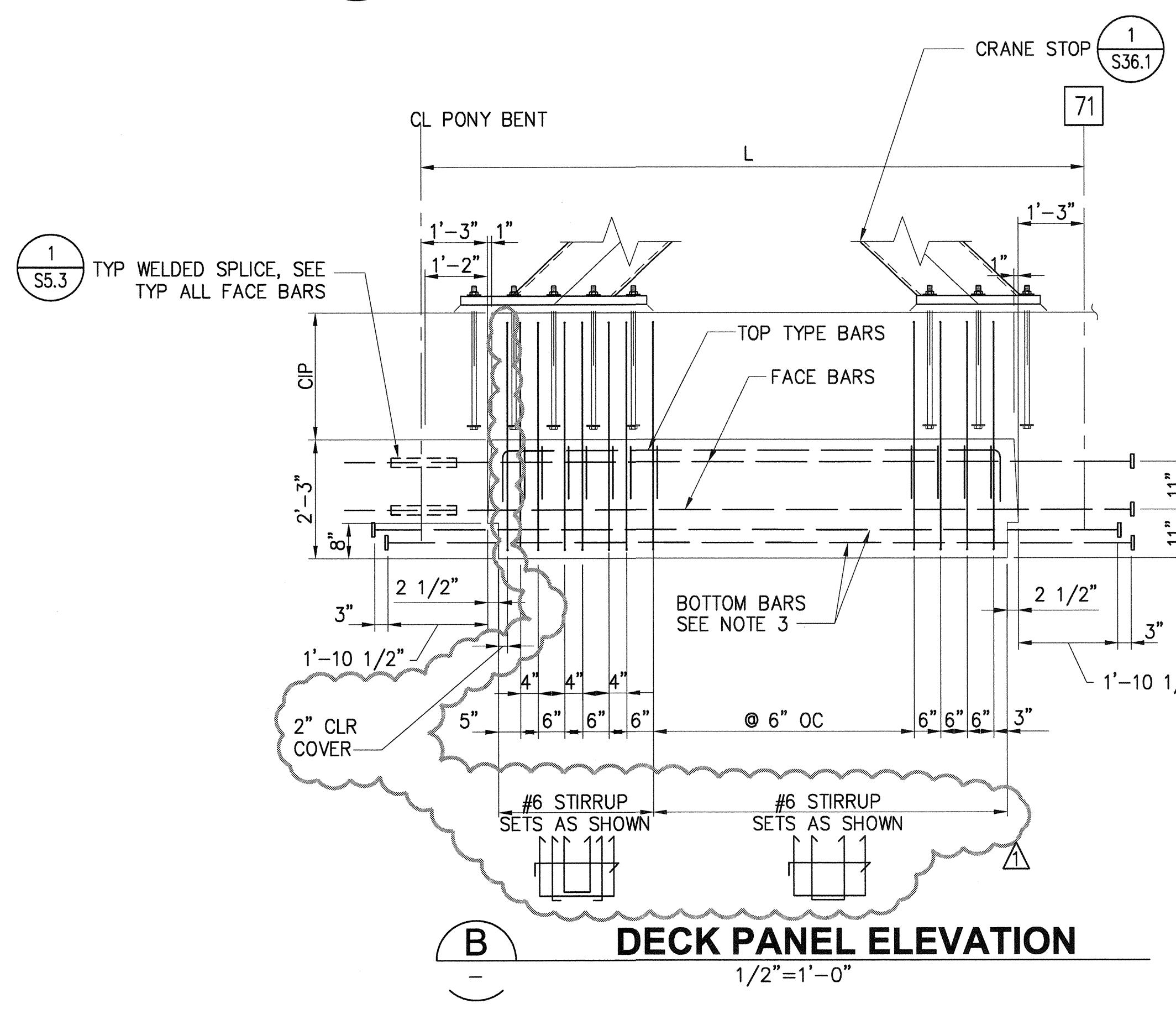
<h1 style="font-size: 2em; margin: 0;">S27.45</h1> <h2 style="font-size: 1.5em; margin: 0;">65'2</h2>		<h3 style="font-size: 1.2em; margin: 0;">PIER 4 PHASE 2</h3> <h3 style="font-size: 1.2em; margin: 0;">RECONFIGURATION</h3> <h3 style="font-size: 1.2em; margin: 0;">DECK PANEL DETAILS - SHEET 45</h3>	
<p style="font-size: 0.8em; margin: 0;">CONT/CONS: 070136</p> <p style="font-size: 0.8em; margin: 0;">M.I.D.: 091251</p> <p style="font-size: 0.8em; margin: 0;">PHASE: B[D]</p>		<p style="font-size: 0.8em; margin: 0;">TOWNSHIP: 21N</p> <p style="font-size: 0.8em; margin: 0;">DAT-HRZ: WA83-SF</p>	<p style="font-size: 0.8em; margin: 0;">RANGE: 3E</p> <p style="font-size: 0.8em; margin: 0;">VERT: MLLW 19.39' @ Tide 22 1933</p>
<p style="font-size: 0.8em; margin: 0;">CONTRACTOR: PROFESSIONAL CONTRACTORS INC.</p> <p style="font-size: 0.8em; margin: 0;">DATE: 05-22-16</p>		<p style="font-size: 0.8em; margin: 0;">DIRECTOR ENG. DATE</p> <p style="font-size: 0.8em; margin: 0;">TAH</p>	<p style="font-size: 0.8em; margin: 0;">PROJ. ENGR. DATE</p> <p style="font-size: 0.8em; margin: 0;">SEK</p>
<p style="font-size: 0.8em; margin: 0;">APPROVED: <i>John Thau</i></p> <p style="font-size: 0.8em; margin: 0;">5-22-16</p>		<p style="font-size: 0.8em; margin: 0;">CHECKED BY</p> <p style="font-size: 0.8em; margin: 0;">TAH</p>	<p style="font-size: 0.8em; margin: 0;">DATE</p> <p style="font-size: 0.8em; margin: 0;">DATE</p>
<p style="font-size: 0.8em; margin: 0;">MARK: #3</p>		<p style="font-size: 0.8em; margin: 0;">BY:</p> <p style="font-size: 0.8em; margin: 0;">TAH</p>	<p style="font-size: 0.8em; margin: 0;">APPR:</p> <p style="font-size: 0.8em; margin: 0;">SEK</p>
<p style="font-size: 0.8em; margin: 0;">REVISION:</p> <p style="font-size: 0.8em; margin: 0;">#3</p>		<p style="font-size: 0.8em; margin: 0;">DATE:</p> <p style="font-size: 0.8em; margin: 0;">4/28/2016</p>	
<p style="font-size: 0.8em; margin: 0;">PRINTED BY: jhollenbach</p>		<p style="font-size: 0.8em; margin: 0;">PORT ADDRESS: ONE SITCUM PLAZA</p>	
<p style="font-size: 0.8em; margin: 0;">TACOMA, WA 98401-1837</p>			



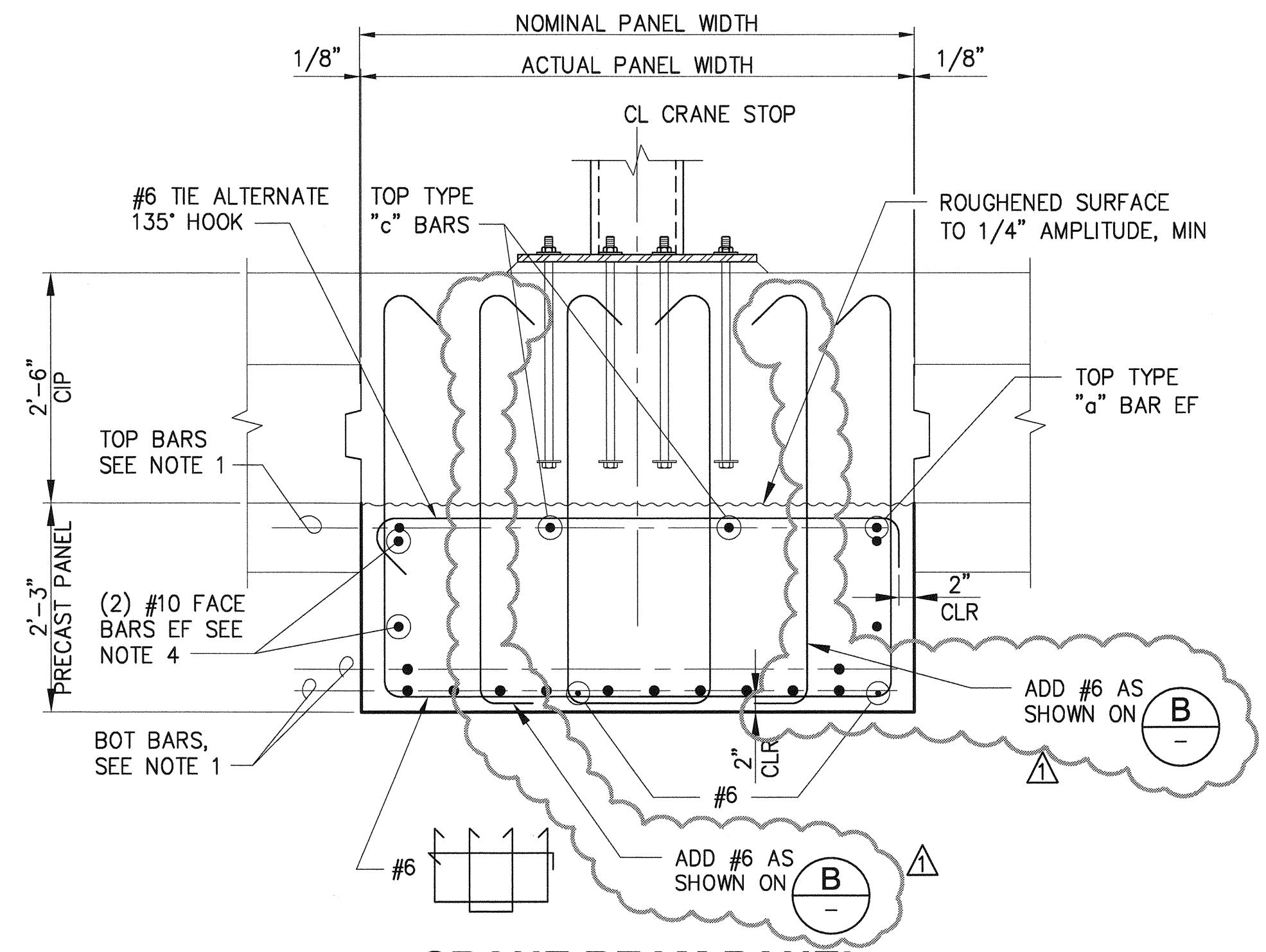
TYPE L PANEL P8 (SHOWN FOR REFERENCE)

TYPE R PANEL P8A

CRANE BEAM TYPE 'L & R' PANEL PLAN



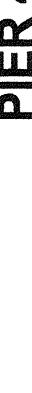
DECK PANEL ELEVATION

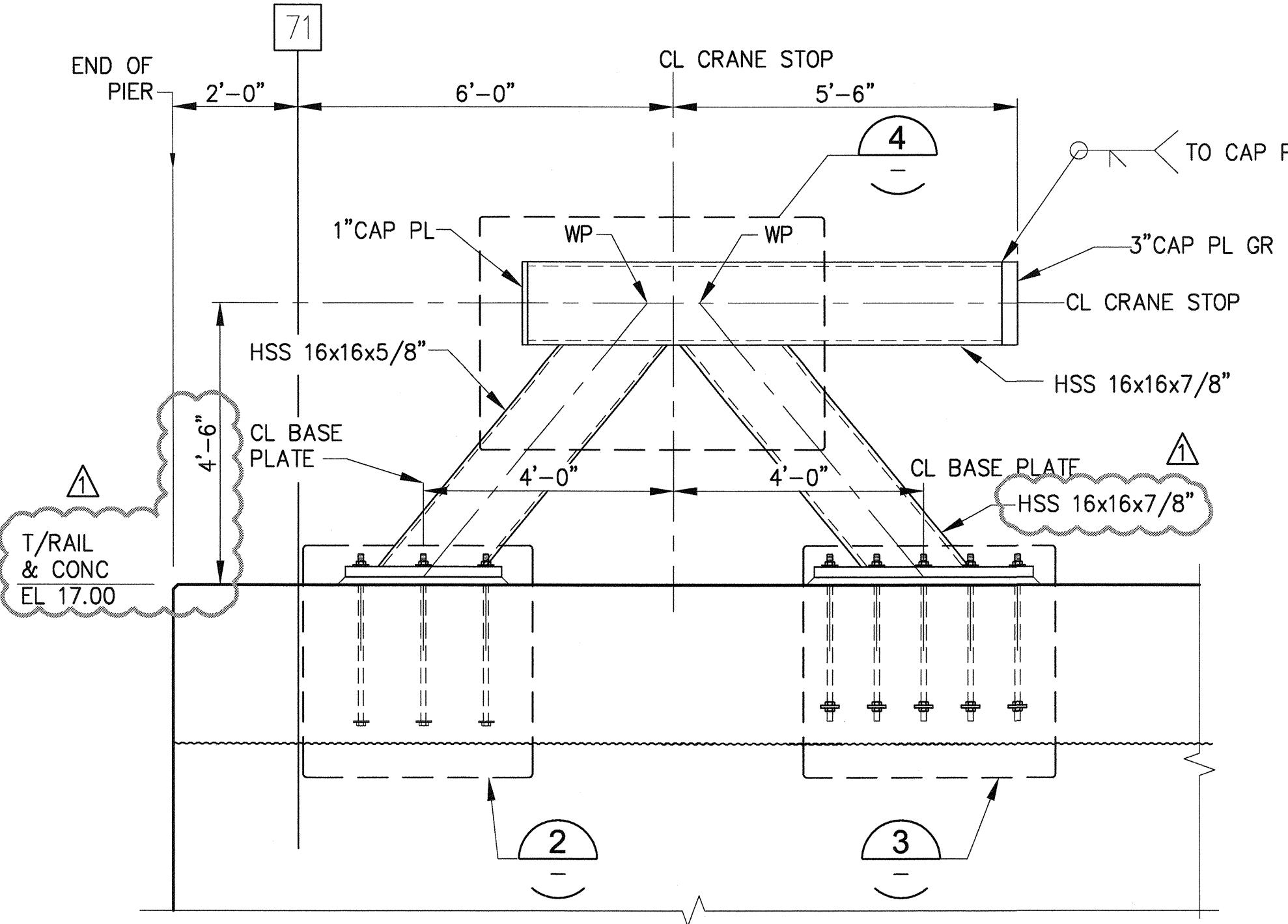


CRANE BEAM PANEL TYPE 'R' SECTION P8A

NOTES:

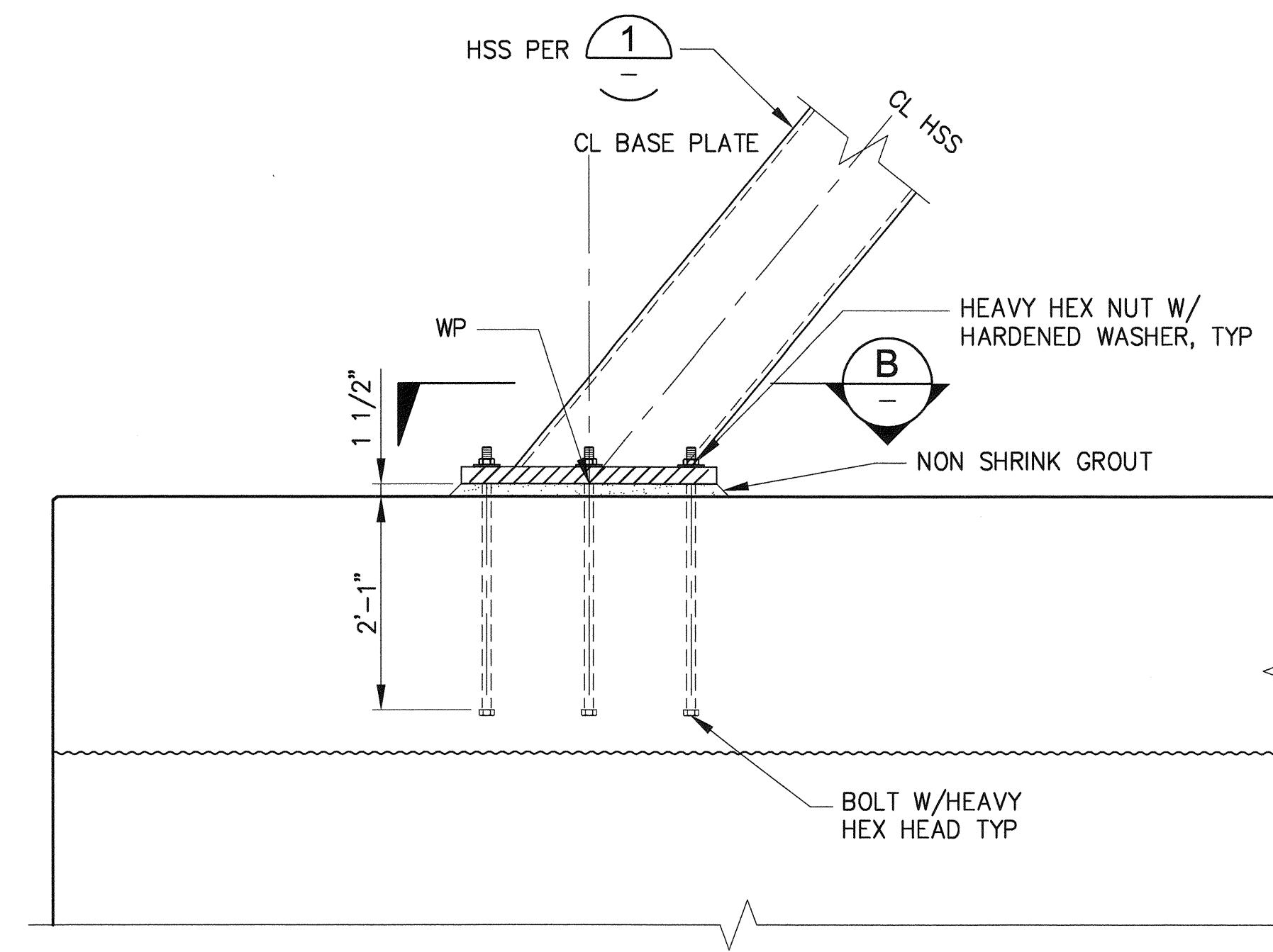
1. SEE DECK PANEL SCHEDULE, S26.1 – S26.5
2. USE THIS SHEET FOR PANEL TYPE P8A
3. PROVIDE HEADED REINFORCEMENT, SEE SPECIFICATIONS
4. PROVIDE ASTM A706 GRADE 60 REINFORCEMENT FOR ALL FACE BARS. ALIGN FACE BARS TO SPLICING WITH FACE BARS FROM PANEL TYPE P2. FACE BARS SHALL BE HEADED AT BENT

<h1>S27.48</h1> <h2>6552</h2>		<h3>PIER 4 PHASE 2 RECONFIGURATION</h3> <h4>DECK PANEL DETAILS - SHEET 48</h4>	
SH 343 OF 49		APPROVED:  <i>John Howard</i> 5-2-16	SEK CHECKED BY DATE TAH
CONT/ONS: 070136 M.I.D.: 091251 PHASE: BID	TOWNSHIP: 21N DAT-HRZ: WA83-SF	RANGE: 3E VERT: MLLW 19.39' @ Tide 22 1933	SECTION: 27 PARCEL: AS NOTED PROJ. ENGR DATE BY: APPR: DATE: TAH SEK DATE:
			
PIER 4 PHASE 2 RECONFIGURATION DECK PANEL DETAILS - SHEET 48		APPROVED:  <i>John Howard</i> 5-2-16	
SH 343 OF 49		APPROVED:  <i>John Howard</i> 5-2-16	
PRINTED BY: jhollenbach DATE: Apr 28, 2016 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			

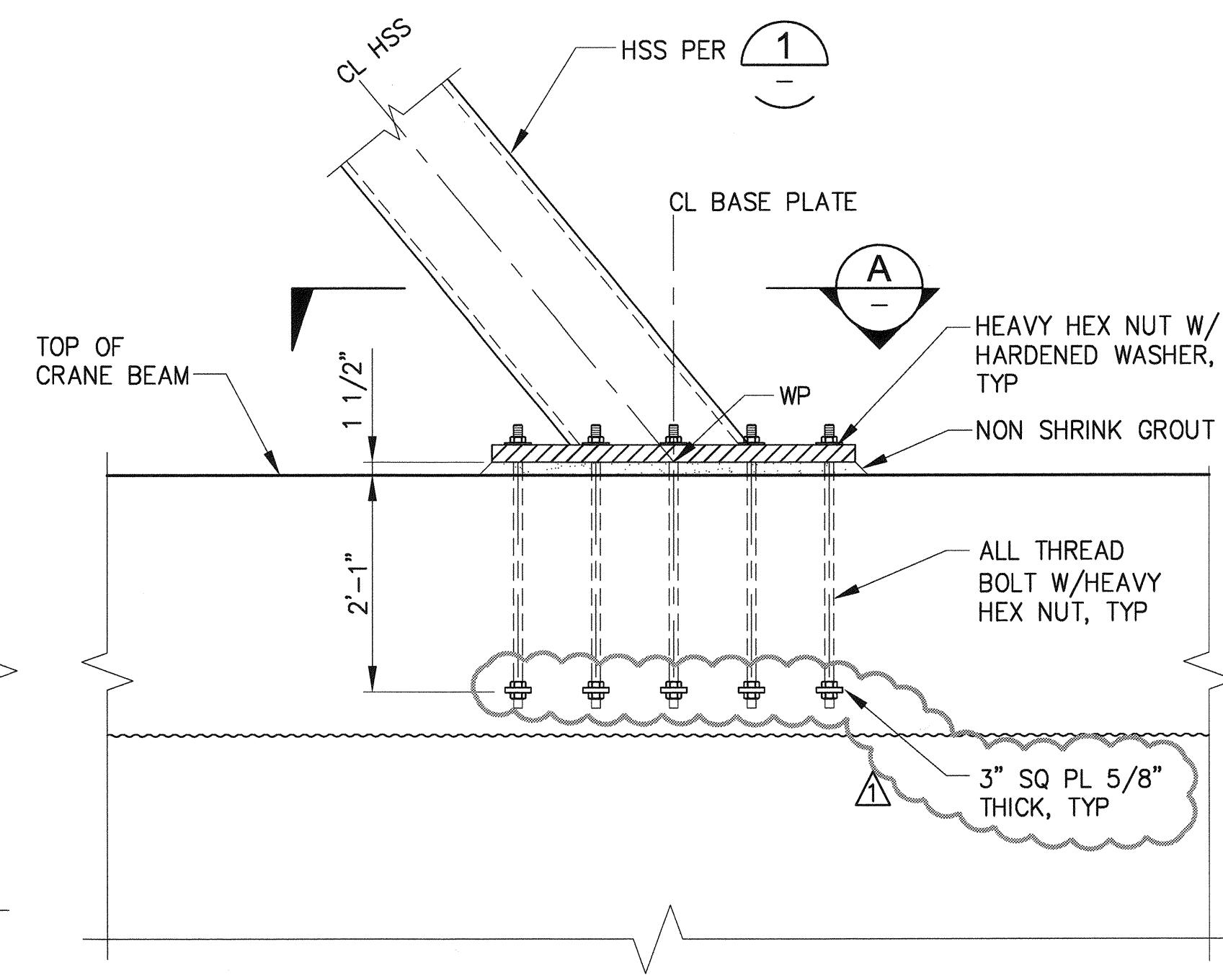


**ELEVATION-CRANE STOPS
LANDSIDE AND WATERSIDE**

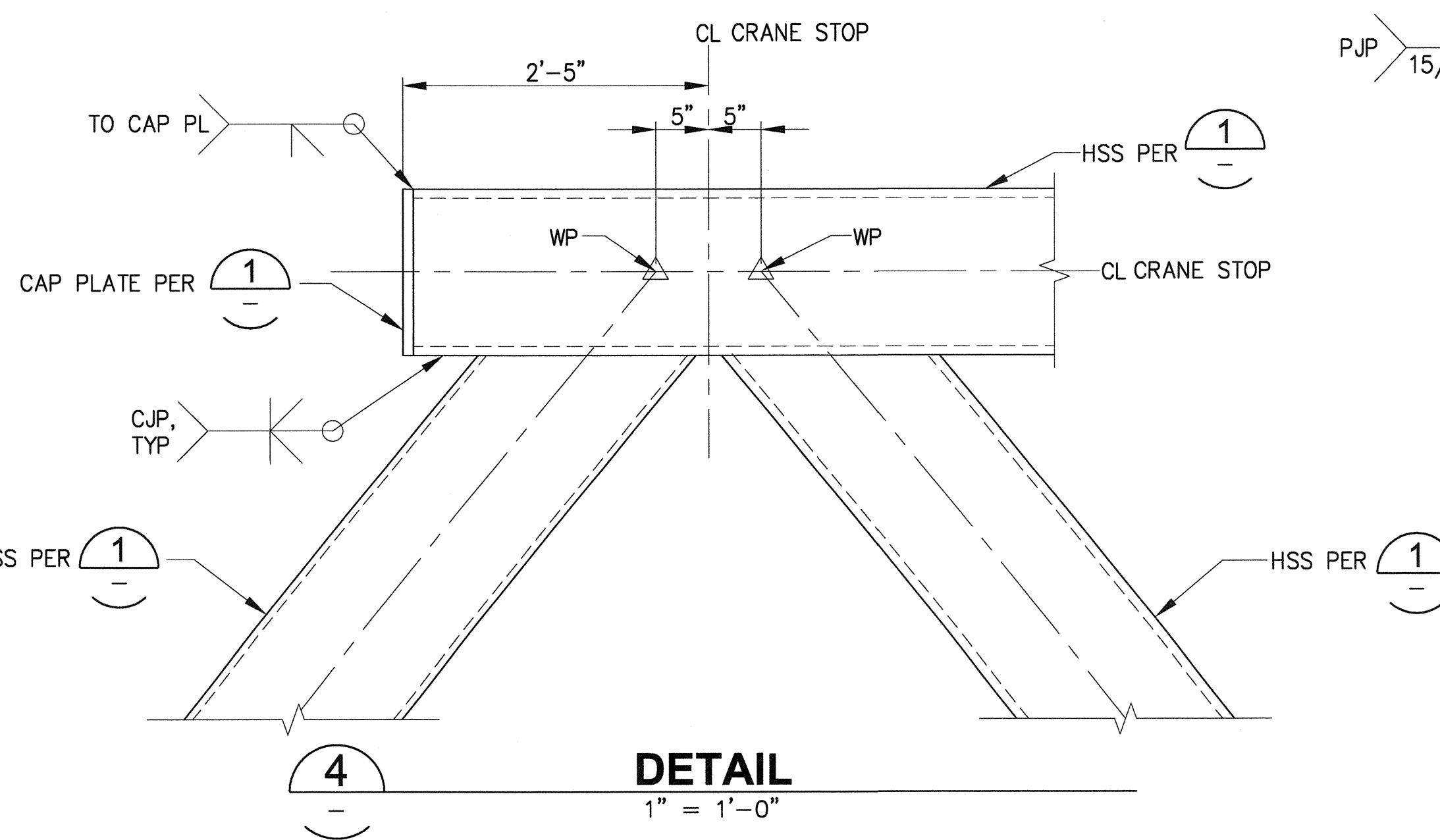
S5.1, S14.1, S16.1, S15.2, S27.45, S27.48 1/2" = 1'-0"



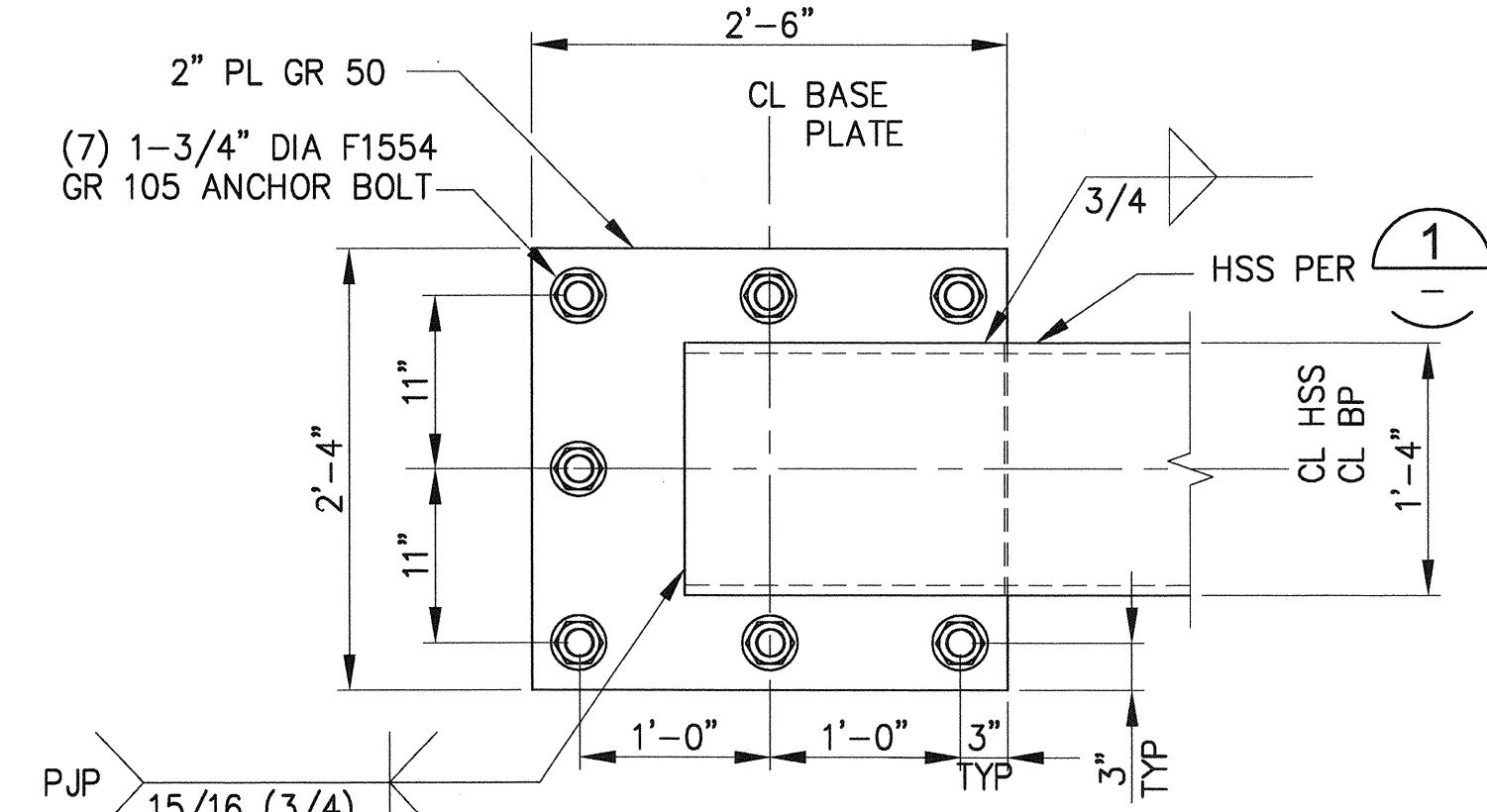
**DETAIL-CRANE STOP BASE PLATE
ANCHORING- BACK POST**



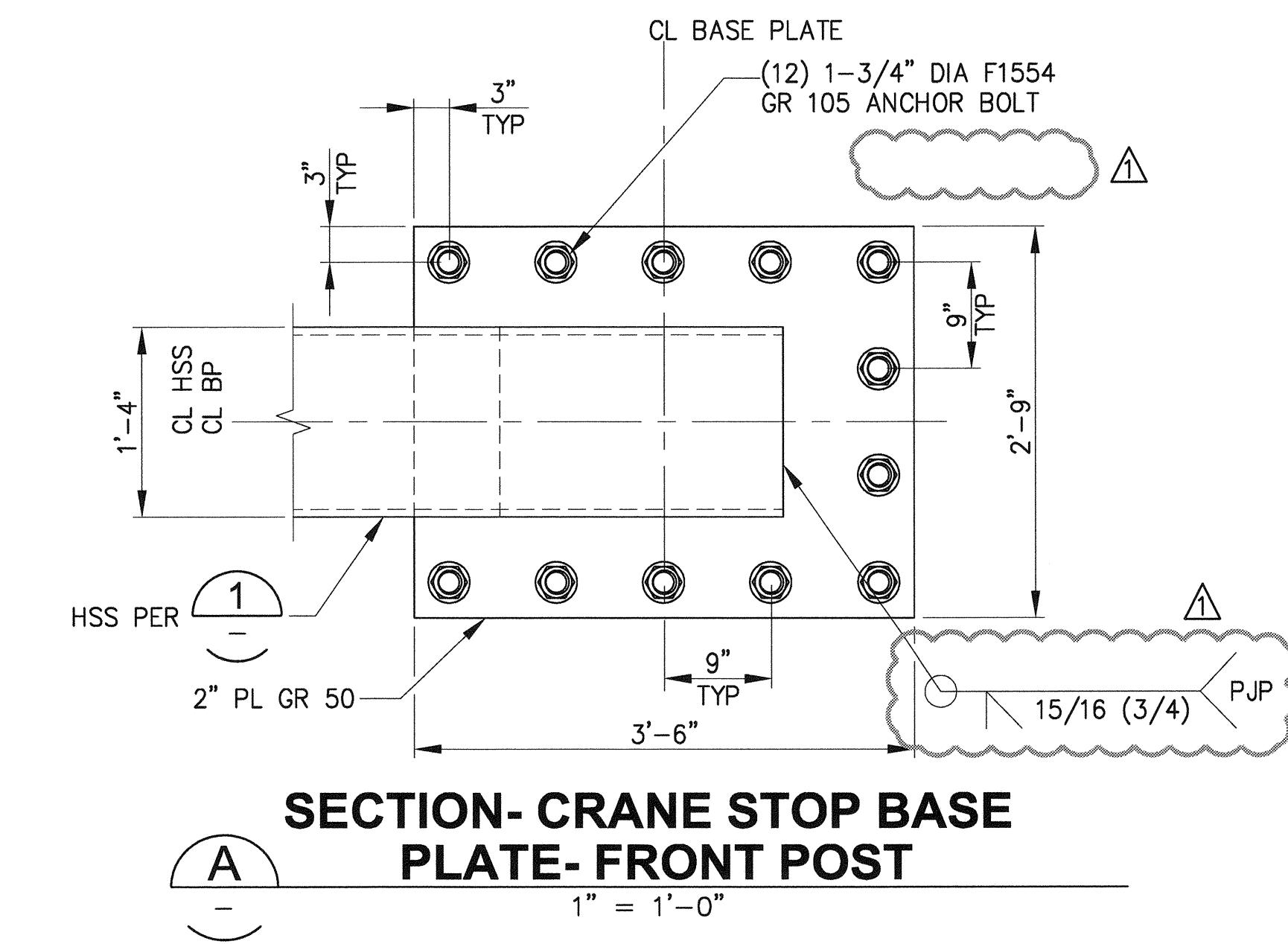
**DETAIL-CRANE STOP BASE PLATE
ANCHORING - FRONT POST**



DETAIL



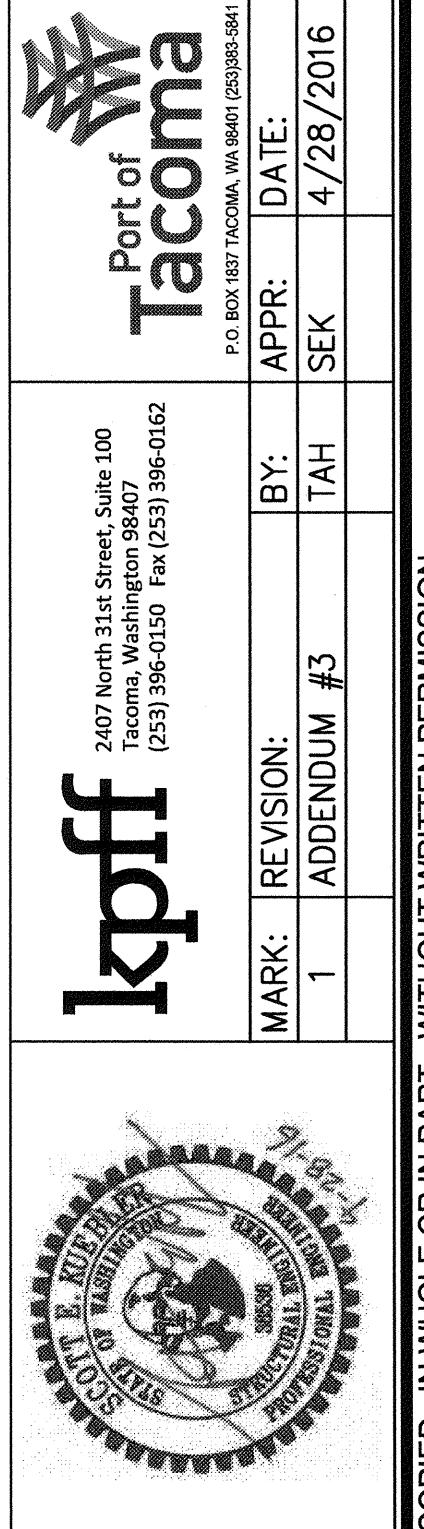
**SECTION-CRANE STOP
BASE PLATE- BACK POST**

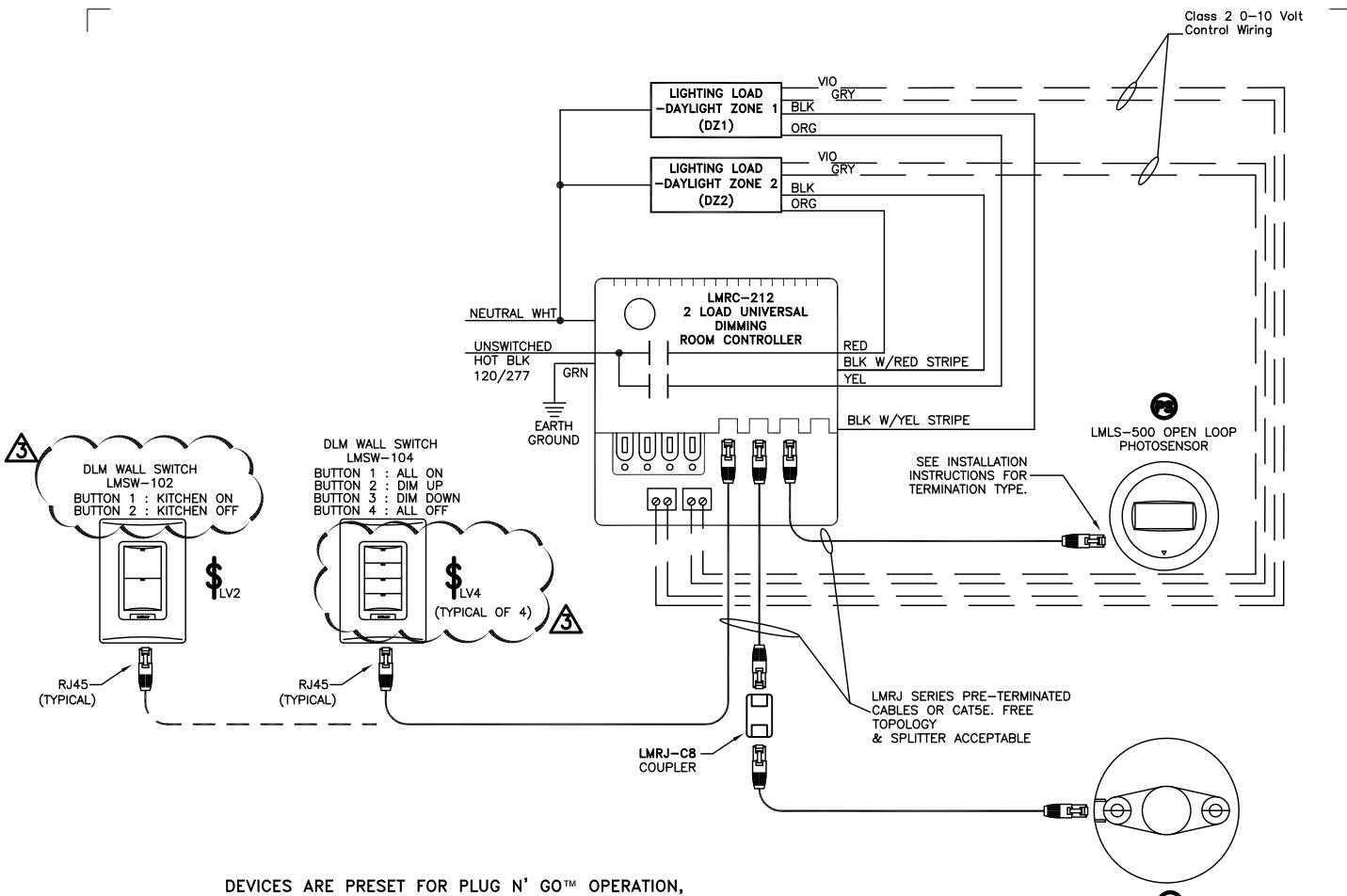


**SECTION-CRANE STOP BASE
PLATE- FRONT POST**

S36.1		PIER 4 PHASE 2 RECONFIGURATION		APPROVED: <i>J. L. Jones</i> / <i>PLW</i>	SEK CHECKED BY DATE	
SH 369 OF 499		CRANE STOP DETAILS		5-2-16	TAH	
CONT. CONS.: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE	PROJ. ENGR. DATE	
M. ID: 091251	DATE-HRZ: W483-SF	VERT: MLW 19.39 @ Tide 22.933		Printed By: ihollenbach Apr 28, 2016	Port Address: One Sitcum Plaza	
PARCEL:		DRAWING SCALE: AS NOTED				TACOMA, WA 98401-1837
PHASE: BID						

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TYPICAL DAYLIGHT HARVESTING 1 OR 2 RELAY ROOM CONTROLLER WIRING DETAIL - ENCLOSED OFFICE WITH DAYLIGHT

NOT TO SCALE

TCF Architecture

P.253.572.3993
F.253.572.1445
902 North Second Street
Tacoma, Washington 98403
www.tcfarchitecture.com

TCF Architecture, PLLC

DAYLIGHT HARVESTING LIGHTING CONTROLLER WIRING DETAIL

Project Title

PIER 4 PHASE 2
MARINE BUILDING



Project Number
TCF: 2015-010

Date
2016-4-29

Drawn By
HS

Sheet Number
E5.01

ADDENDUM #3

ESK-1