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:

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

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:

I.  07 13 26.01 - SELF-ADHERING SHEET WATERPROOFING
   1. **ADD** to paragraph 2.02.A.1 the following manufacturer and product:
      

   2. **ADD** to paragraph 2.03.A.1 the following manufacturer and product:
      

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 WIFIC 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” form 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:


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


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
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:

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION OF ITEM</th>
<th>QTY</th>
<th>UOM</th>
<th>UNIT PRICE</th>
<th>EXTENDED PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mobilization and Demobilization</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Project Administration</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Field Engineering</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Demolition</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Exploratory Excavation</td>
<td>1,160</td>
<td>CY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Removal of Buried Timber Bulkhead Wall</td>
<td>700</td>
<td>LF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Stone Columns</td>
<td>69,171</td>
<td>LF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Riprap and Debris Removal and Disposal</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Dredging and Disposal</td>
<td>465,000</td>
<td>CY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Filter Blanket</td>
<td>14,950</td>
<td>TON</td>
<td>44,800</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Light Rock Riprap</td>
<td>32,500</td>
<td>TON</td>
<td>32,200</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Heavy Rock Riprap</td>
<td>36,000</td>
<td>TON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Furnish 24-inch Concrete Pile</td>
<td>174,121</td>
<td>LF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Install 24-inch Concrete Pile - Wharf Plumb Piles</td>
<td>1,197</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Install 24-inch Concrete Pile - Wharf Batter Piles</td>
<td>36</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Install 24-inch Concrete Piles - Mooring Dolphin Piles</td>
<td>8</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Dynamic Pile Driving Analysis</td>
<td>20</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITEM NO.</td>
<td>DESCRIPTION OF ITEM</td>
<td>QTY</td>
<td>UOM</td>
<td>UNIT PRICE</td>
<td>EXTENDED PRICE</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------------------</td>
<td>-----</td>
<td>------</td>
<td>------------</td>
<td>----------------</td>
</tr>
<tr>
<td>18</td>
<td>Re-strike Concrete Piles</td>
<td>50</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Pile Cut-offs (lengths greater than 10 feet)</td>
<td>50</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Concrete Pile Build-ups</td>
<td>40</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Furnish and Install Sheet Piles</td>
<td>1,308</td>
<td>LF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Construct Mooring Dolphin</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Wharf Construction</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Wharf Fender System</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Furnish and Install Crane Rail</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Concrete Spall Repairs to Existing Pier 4</td>
<td>118</td>
<td>SF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>Storm Drain, Water and Sanitary Sewer Systems</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Electrical and Communications Site Work</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Electrical Substation</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Ballast and Base Course for Asphalt Paving</td>
<td>17,940</td>
<td>TON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Asphalt Paving</td>
<td>22,220</td>
<td>TON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Marine Building</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>All Other Work</td>
<td>1</td>
<td>LS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Stone Column Obstructions Allowance</td>
<td>1</td>
<td>LS</td>
<td>$50,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>35</td>
<td>Unforeseen Dredging Debris Removal Allowance</td>
<td>1</td>
<td>LS</td>
<td>$100,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>36</td>
<td>Unforeseen Conditions Allowance</td>
<td>1</td>
<td>LS</td>
<td>$100,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>37</td>
<td>Screened Dredging Premium Allowance</td>
<td>300</td>
<td>HR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

Project No. 091251
Contract No. 070136
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.

<table>
<thead>
<tr>
<th>Work to be Performed</th>
<th>Name of Firm</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVAC (Heating, Ventilation and Air Conditioning) Work</td>
<td></td>
</tr>
<tr>
<td>Plumbing Work as described in RCW 18.106</td>
<td></td>
</tr>
<tr>
<td>Electrical Work as described in RCW 19.28</td>
<td></td>
</tr>
</tbody>
</table>

[Remainder of Page Left Intentionally Blank; Signature Page Immediately Follows]
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 ____________ Expiration Date ____________

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 hysterisis 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 EFFICIENCY
   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 DECOCK FLOOD AND WITHIN A PORTION OF THE STORED COLUMN INSTALLATION AREA. SEE RECORD DRAWINGS TITLED "PORT OF TACOMA PER 4 BULKHEAD CONSTRUCTION (CP-1386-4), 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 EXCAVATORY EXCAVATION AS SHOWN ON DREDGING 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 PER 4 STRUCTURE THAT WAS DEMOLISHED IN PHASE 1 OF THE PER 4 RECONFIGURATION PROJECT.

EXISTING CONDITIONS PLAN

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

SCALE: 1"=100'

PROJECT NORTH

100' 200' 300'

SCALE: 1"=100'
SLOPE PROTECTION PLAN

SCALE: 1" = 80'

SLOPE PROTECTION CONTROL POINTS

<table>
<thead>
<tr>
<th>POINT ID</th>
<th>NORTHING</th>
<th>EASTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>717733.71</td>
<td>1186373.69</td>
</tr>
<tr>
<td>D</td>
<td>717145.38</td>
<td>1186328.87</td>
</tr>
<tr>
<td>E</td>
<td>717545.80</td>
<td>1186810.33</td>
</tr>
<tr>
<td>F</td>
<td>714544.17</td>
<td>1186991.40</td>
</tr>
<tr>
<td>G</td>
<td>713204.96</td>
<td>1186998.74</td>
</tr>
<tr>
<td>H</td>
<td>712380.35</td>
<td>1186998.74</td>
</tr>
<tr>
<td>I</td>
<td>712018.73</td>
<td>1186995.30</td>
</tr>
<tr>
<td>J</td>
<td>712143.88</td>
<td>1186881.06</td>
</tr>
<tr>
<td>K</td>
<td>712543.89</td>
<td>1187535.74</td>
</tr>
</tbody>
</table>

SLOPE PROTECTION POINTS

<table>
<thead>
<tr>
<th>POINT ID</th>
<th>NORTHING</th>
<th>EASTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>113</td>
<td>712586.22</td>
<td>1187053.83</td>
</tr>
<tr>
<td>114</td>
<td>712405.93</td>
<td>1187492.30</td>
</tr>
<tr>
<td>115</td>
<td>712412.40</td>
<td>1187468.89</td>
</tr>
<tr>
<td>116</td>
<td>712422.70</td>
<td>1187605.67</td>
</tr>
<tr>
<td>117</td>
<td>712525.40</td>
<td>1187815.73</td>
</tr>
<tr>
<td>118</td>
<td>712444.60</td>
<td>1187802.82</td>
</tr>
<tr>
<td>119</td>
<td>712439.24</td>
<td>1187802.85</td>
</tr>
</tbody>
</table>

NOTES

1. Control points represent top of finished rock face.

LEGEND

- Existing Contour
- Project Work Area Limits
- Elevation Slope
- Project Specific Ordinary
- High Water Line (OL +12.78')
- Units of Slope Protection
- Extents of Dredge, See Sheet C3.1

FILL EXISTING SCOUR HOLE LIGHT ROCK RIP RAP SHALL BE USED TO FILL UPPER 18 FEET. REMAINDER SHALL BE FILLED WITH DREDGE MATERIAL. APPROXIMATE VOLUME OF DREDGE MATERIAL REQUIRED = 300 CY APPROXIMATE VOLUME OF LIGHT ROCK RIP RAP REQUIRED = 400 CY FILL TO EL -51.0'
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 SPICE WITH FACE BARS FROM PANEL TYPE P2. FACE BARS SHALL BE HEADED AT BENT.
**CRANE BEAM**

**TYPE 'L' & 'R' PANEL PLAN**

**CRANE PANEL P8A**

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 A416 GR. 50 REINFORCEMENT FOR ALL FACE BARS ALONG FACE BARS TO SPlice WITH FACE BARS FROM PANEL TYPE L. FACE BARS SHALL BE HEADED AT BENT 15°**
ELEVATION-CRANE STOPs
LANDSIDE AND WATERSIDE

1. LANDSIDE STOP
   55.1, S14.1, S16.1, S18.2, S27.45, 527.48
   1/2' = 1'-0"

2. BASE PLATE
   ANCHORING - BACK POST
   3/4' = 1'-0"

3. BASE PLATE
   ANCHORING - FRONT POST
   3/4' = 1'-0"

SECTION-CRANE STOP
BASE PLATE - BACK POST
1' = 1'-0"

SECTION-CRANE STOP BASE PLATE - FRONT POST
1' = 1'-0"
DEVICES ARE PRESET FOR PLUG N’ GO™ OPERATION. ADJUSTMENT IS OPTIONAL. SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-222 DEFAULTS TO MULTI-LEVEL AUTOMATIC—ON/AUTOMATIC—OFF OPERATION. LOAD (A) ON THE LMRC-222 TURNS ON AUTOMATICALLY, WHILE LOAD (B) DEFAULTS TO MANUAL—ON CONTROL; ALL RELAYS TURN OFF AUTOMATICALLY. ENHANCED ROOM CONTROLLERS SUPPORT UP TO 64 LOADS AND 48 DEVICES PER DLM LOCAL NETWORK AT SYSTEM STARTUP. DEFAULT DIMMING PARAMETERS ARE ESTABLISHED INCLUDING: LEVELS FOR PRESETS 1—4; FADE TIMES; AND FADE AND RAMP RATES; DIMMING AND SYSTEM PARAMETERS MAY BE CUSTOMIZED. FOR FULL OPERATIONAL DETAILS, ADJUSTMENTS AND MORE FEATURES OF THE PRODUCT, SEE THE DLM SYSTEM INSTALLATION GUIDE AT WWW.WATTSTOPPER.COM

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

NOT TO SCALE

DAYLIGHT HARVESTING LIGHTING CONTROLLER WIRING DETAIL

Project Title
PIER 4 PHASE 2 MARINE BUILDING

Sheet Number E5.01
ADDENDUM #3 ESK-1

TCF Architecture, PLLC

All material herein constitutes the original and unpublished work of the architect and may not be used, duplicated or disclosed without the written consent of the architect. Copyright © 2012 by TCF Architecture, PLLC. All rights reserved.