



People. Partnership. Performance.

P.O. Box 1837  
Tacoma, WA 98401-1837  
www.portoftacoma.com

May 11, 2016

**TO: PLANHOLDERS**

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

### **ADDENDUM NUMBER FIVE**

This addendum is issued to amend the following:

#### **SPECIFICATIONS**

##### **A. 03 30 00 – CAST-IN-PLACE CONCRETE**

**1. REVISE** section 2.01.B.4 to read as follows:

4. Fly ash, if used, shall meet the requirements of ASTM C 618, Type F, with the added provision that the loss on ignition shall not exceed 4 1.5 percent, and that the fly ash is stored in a separate silo from the cement. Split bins are not acceptable.

##### **B. 03 40 00 – PRECAST CONCRETE**

**1. ADD** the following to 1.03 REFERENCE STANDARDS:

- G. Standard Specifications for Road, Bridge, and Municipal Construction, M41-10, 2016 edition, by Washington State Department of Transportation (2016 WSDOT Standard Specifications)

**2. ADD** the following to 1.05 SUBMITTALS:

- I. If Self-Consolidating Concrete (SCC) is to be used for precast deck panels and piling, then submit evidence of the precast plant's use of SCC in the production of precast deck panels or piling on at least 3 previous projects performed within the past 5 years.

**3. REVISE** 1.05.D to read as follows:

- D. Proposed concrete mix design, indicating material contents per cubic yard including test certificates for compressive strength, yield, air content, slump, admixtures, etc. Include manufacturer's data sheets for all proposed admixtures, release agents, curing compounds, epoxy grout, etc. If Self-Consolidating Concrete (SCC) is used for the deck panels or piling, then also include test results as specified per Section 6-02.3(2)A2 of the 2016 WSDOT Standard Specifications. See Section 03 30 00 – Cast-in-Place Concrete.

**4. ADD** the following to paragraph 2.01 CONCRETE:

D. The use of Self-Consolidating Concrete (SCC) is permitted for precast deck panels and piling provided that the mix proportions, performance, and strength requirements specified herein are achieved and in accordance with the following:

1. SCC shall be as defined in Section 6-02.3(2)A2 of the 2016 WSDOT Standard Specifications.
2. The concrete mix submittal for SCC shall include the items specified in Section 6-02.3(2)A2 of the 2016 WSDOT Standard Specifications.
3. The maximum slump requirements specified in Section 03 30 00 CAST-IN-PLACE CONCRETE do not apply to SCC and are instead replaced by the target slump flow and slump flow range specified as part of the SCC mix design.
4. Type III cement may be used in SCC.

**5. ADD** the following to 3.01 FABRICATION:

L. Vibration of SCC shall only be used as described in Section 6-02.3(9) of the 2016 WSDOT Standard Specifications, or as approved by the Engineer.

**C. 34 11 13 – TRACK RAILS**

**1. DELETE** the last sentence of paragraph 3.02.A as follows:

A. ... shall be installed for all field welds. ~~Provide a full-time onsite Certified Welding Inspector (CWI) for all welding.~~

**D. 35 42 37 – RIRAP SLOPE PROTECTION**

**1. REVISE** paragraph 2.04 to read as follows:

A. Filter Blanket material shall be crushed rock manufactured from rock of the same quality as rock for riprap, meeting the gradation requirements for “Gravel Borrow” as defined in Section 9-03.14(1) of the WSDOT Standard Specifications, except that percent passing the No. 200 sieve shall be 2 percent maximum, and the sand equivalent criteria shall not apply.

**E. 07 22 70.01 - FALL PROTECTION DEVICES**

**1. ADD** to paragraph 2.01.A the following manufacturer:

A. Provide fall protection system manufactured by GUARDIAN FALL PROTECTION INC., 6305 South 231<sup>st</sup> Street Kent, WA, phone 800-670-7892; or CRA Commercial Roof Anchor manufactured by Super Anchor Safety, 8522 – 216<sup>th</sup> Street SE Woodinville, WA., phone 425-488-8868, or equal.

**F. 08 41 13.01 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**

**1. ADD** to paragraph 2.02.A the following manufacturer:

4. Oldcastle Building Envelope – Series 3000 Thermal Multiplane

**G. 23 09 00.01 – STAND ALONE CONTROLS**

1. **REVISE** title of paragraph 1.02 to read as follows:

1.02. ~~SCOPE OF WORK~~ APPROVED MANUFACTURERS

2. **REVISE** paragraph 1.02.A to read as follows:

A. ~~Scope of Work: Under the base bids, the controls as specified under Section 23 09 00 will be added to the project scope of work as separate bid and pricing package. The following Stand Alone Controls manufacturer are ...~~

**DRAWINGS**

**A. DRAWING E3.3 – ELECTRICAL PLAN - SHEET 1 (SHEET 129)**

1. **DELETE** conduits WS174, WS185, and WS196 from key note #6 as denoted. (See Attachment A to this Addendum No. 05)

**B. DRAWING E8.4 – CONDUIT AND CONDUCTOR SCHEDULE (SHEET 168)**

1. **REVISE** the vault designation in the “TO” column for conduit SD62 to “SDV23” as denoted. (See Attachment B to this Addendum No. 05)

**C. DRAWING E8.5 – CONDUIT AND CONDUCTOR SCHEDULE (SHEET 169)**

1. **REVISE** the vault designation in the “TO” column for conduits SL101, SL102, and SL103 to “SDV23” as denoted. (See Attachment C to this Addendum No. 05)

**D. DRAWING S13.1 SHEET PILE WALL CAP BEAM SECTIONS AND DETAILS (SHEET 253)**

1. **REVISE** Detail D Sheet Pile Section as denoted. (See Attachment D to this Addendum No. 05).

**E. DRAWING S14.1 – STEEL SHEET PILE DETAILS (SHEET 379)**

1. **REVISE** Section A as denoted. (See Attachment E to this Addendum No. 05).

**F. DRAWING M1.02 – MARINE BUILDING SCHEDULES (SHEET 471)**

1. **ADD** note 6 to Notes For Rooftop Packaged Unit Schedule, apply to RPU-1 and RPU-2 under the Remarks column to read as follows:  
6. Unit shall be provided with Trane Heresite VR502 marine coated coils or approved alternate.
2. **ADD** note 7 to Notes For Rooftop Packaged Unit Schedule, apply to RPU-2 under the Remarks column to read as follows:  
7. Unit shall be provided with powered exhaust.

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

**END OF SECTION**

**ATTACHMENTS:**

**ATTACHMENT A - DRAWING E3.3 – ELECTRICAL PLAN - SHEET 1 (SHEET 129)**

**ATTACHMENT B - DRAWING E8.4 – CONDUIT AND CONDUCTOR SCHEDULE (SHEET 168)**

**ATTACHMENT C - DRAWING E8.5 – CONDUIT AND CONDUCTOR SCHEDULE (SHEET 169)**

**ATTACHMENT D - DRAWING S13.1 - SHEET PILE WALL CAP BEAM SECTIONS AND DETAILS  
(SHEET 253)**

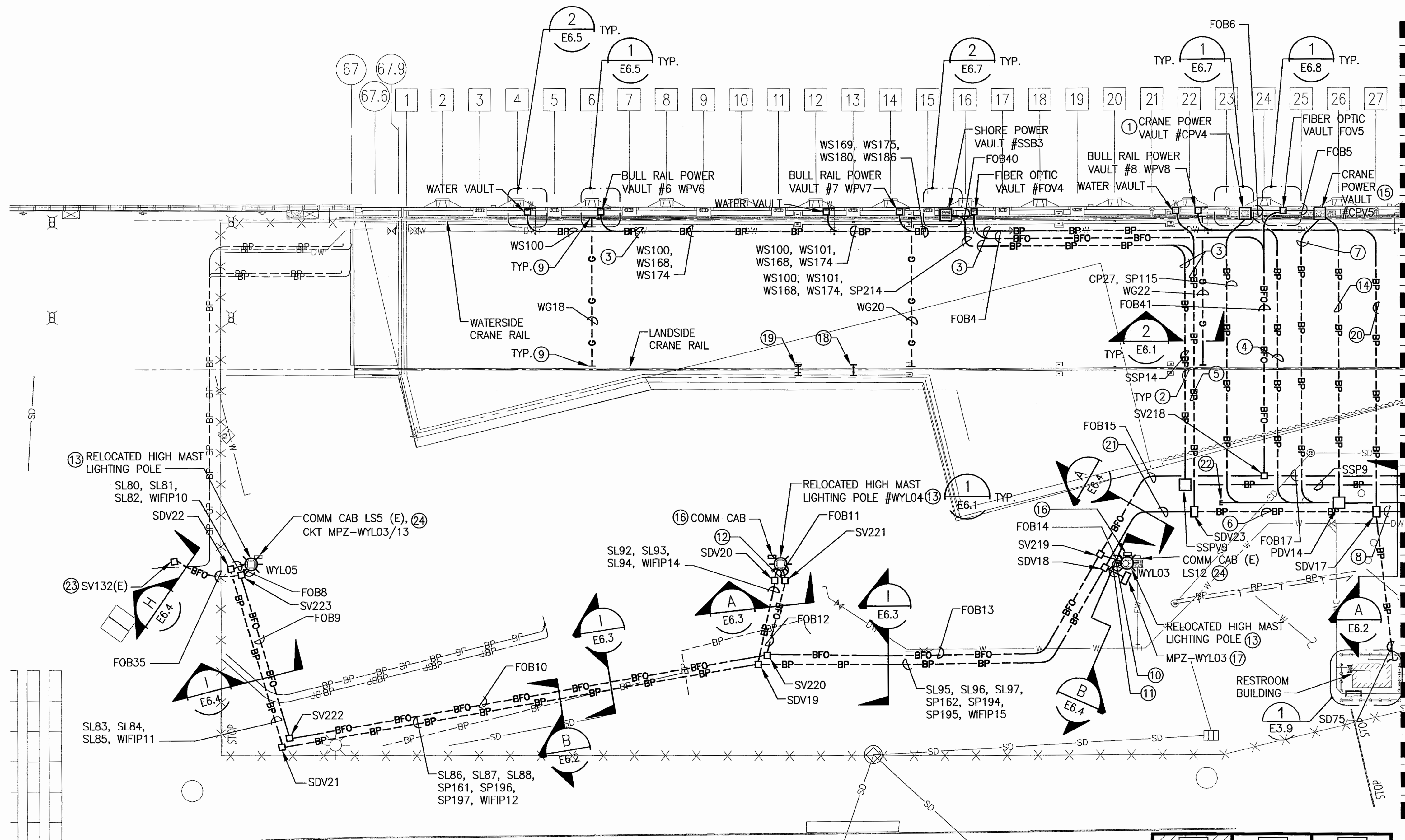
**ATTACHMENT E - DRAWING S14.1 – STEEL SHEET PILE DETAILS (SHEET 379)**

## GENERAL NOTES

- ALL ELECTRICAL CONNECTIONS IN BULLRAIL VAULTS TO USE NO-OX CORROSION INHIBITING LUBRICANT, OR APPROVED EQUAL.
- REFER TO CIVIL DRAWINGS FOR DUCTBANK PLAN AND PROFILE INFORMATION.
- SEE SHEETS E6.9 AND E6.10 FOR ROUTING CONDUITS IN UTILITY TRENCHES AT BULLRAIL.

## KEY NOTES

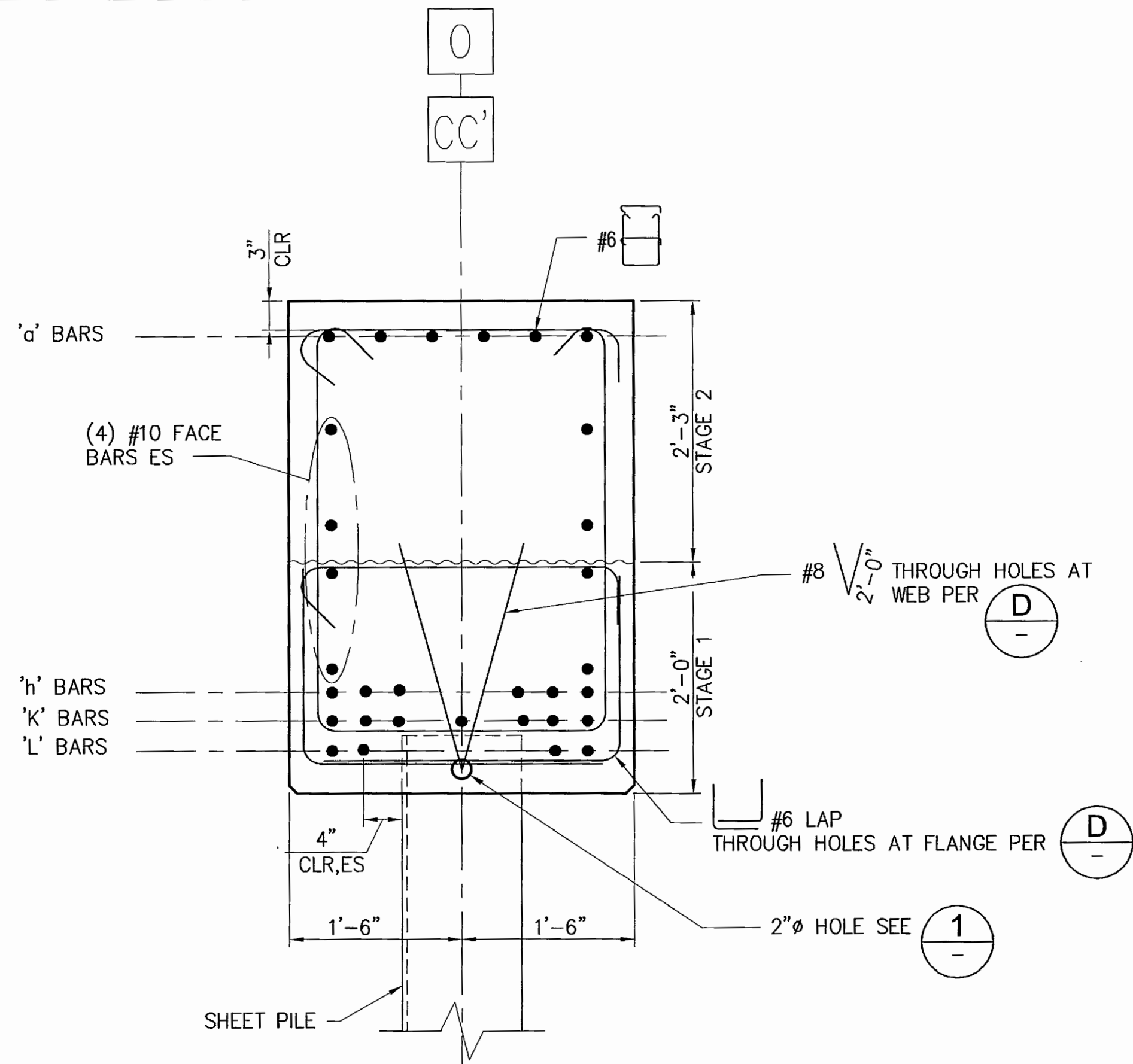
- CRANE POWER VAULT TO SUPPLY CRANES #1, #2.
- CONDUITS TO BE RUN IN PILE CAP PER DETAILS ON SHEETS E6.22, E6.23.
- CONDUITS TO BE RUN IN UTILITY TRENCH. SEE SHEETS E6.9, E6.10.
- CP30, SP118
- WS138, WS176, WS197, SP217
- SD62, SL101, SL102, SL103, SP163, SP192, SP193, WS174, WS185, WS196
- CP33, SP121
- SD63, SD76, SL104, SL105, SL106, SP164, SP190, SP191, SP213, WS170, WS181, WS192
- GROUND WIRE CONNECTION AT CRANE RAILS TO BE EXOTHERMIC WELD. SEE STRUCTURAL SHEETS FOR CRANE RAIL DETAILS.
- SL98, SL99, SL100
- SD61, SP182, SP183, WS104, WS178, WS199, WIFIP16
- SL89, SL90, SL91, WIFIP13
- SEE SPECIFICATION 26 56 36 FLOOD LIGHTING FIXTURES FOR QUANTITY OF LIGHTING FIXTURES EXISTING ON THE POLE AND QUANTITY OF FIXTURES REQUIRED AT POLE. SEE SHEET S45.1 FOR LIGHTING POLE BASE DETAIL.
- CP36, SP124
- CRANE POWER VAULT TO SUPPLY CRANES #3, #4.
- PROVIDE COMMUNICATIONS CABINET, 36"Hx30"Wx8"D, 316L STAINLESS STEEL, WITH PAINTED STEEL PANEL, GASKETING, CONTINUOUS HINGE ON DOOR AND STAINLESS STEEL DOOR CLAMPS. CONNECT TO CIRCUIT MPZ-WYL03/15. MOUNT CABINET AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED. PROVIDE CORNING TYPE SPH, WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL, MOUNTED IN CABINET.
- PROVIDE 3/4"C, 2#12, #12G FROM MPZ TO ADJACENT COMM CABINET AND CONNECT TO DUPLEX RECEPTACLE IN CABINET. CONNECT TO CIRCUIT MPZ-WYL03/17. PROVIDE GROUND ROD IN GROUND WELL ADJACENT TO POLE AND CONNECT TO MPZ WITH 1"C, 1#6G. MOUNT MPZ AT POLE TO STRUT CHANNELS MOUNTED VERTICALLY AND HORIZONTALLY, WITH THE VERTICAL CHANNELS ANCHORED TO THE POLE WITH STAINLESS STEEL STRAPS. STRAPS TO BE BY PANDUIT, OR APPROVED EQUAL, LENGTH AS REQUIRED.
- 3/4"C, 1#4G FROM CRANE RAILS TO CRANE PIN SOCKETS, TYPICAL. SEE SHEET S3.1 FOR PIN SOCKET LOCATIONS.
- 3/4"C, 1#4G FROM CRANE RAILS TO CRANE TIE DOWNS, TYPICAL. SEE SHEET S3.1 FOR TIE DOWN LOCATIONS.
- WS169, WS180, WS191
- SD82, SL145, SL146, SL147, SP175, SP180, SP181, WS103, WS177, WS198
- CAP (5) 4" C.O. FOR FUTURE USE FOR REEFER TRANSFORMER, CRANE (SPARE) AND FUTURE LOAD.
- REFER TO SPECIFICATION SECTION 01 14 00 "WORK RESTRICTIONS" FOR ELECTRICAL WORK IN THIS AREA.
- REMOVE EXISTING FIBER OPTIC TERMINATION HOUSING IN CABINET AND PROVIDE A CORNING TYPE SPH WALL MOUNTABLE HOUSING WITH ONE CORNING TYPE CCH PANEL MOUNTED IN CABINET.



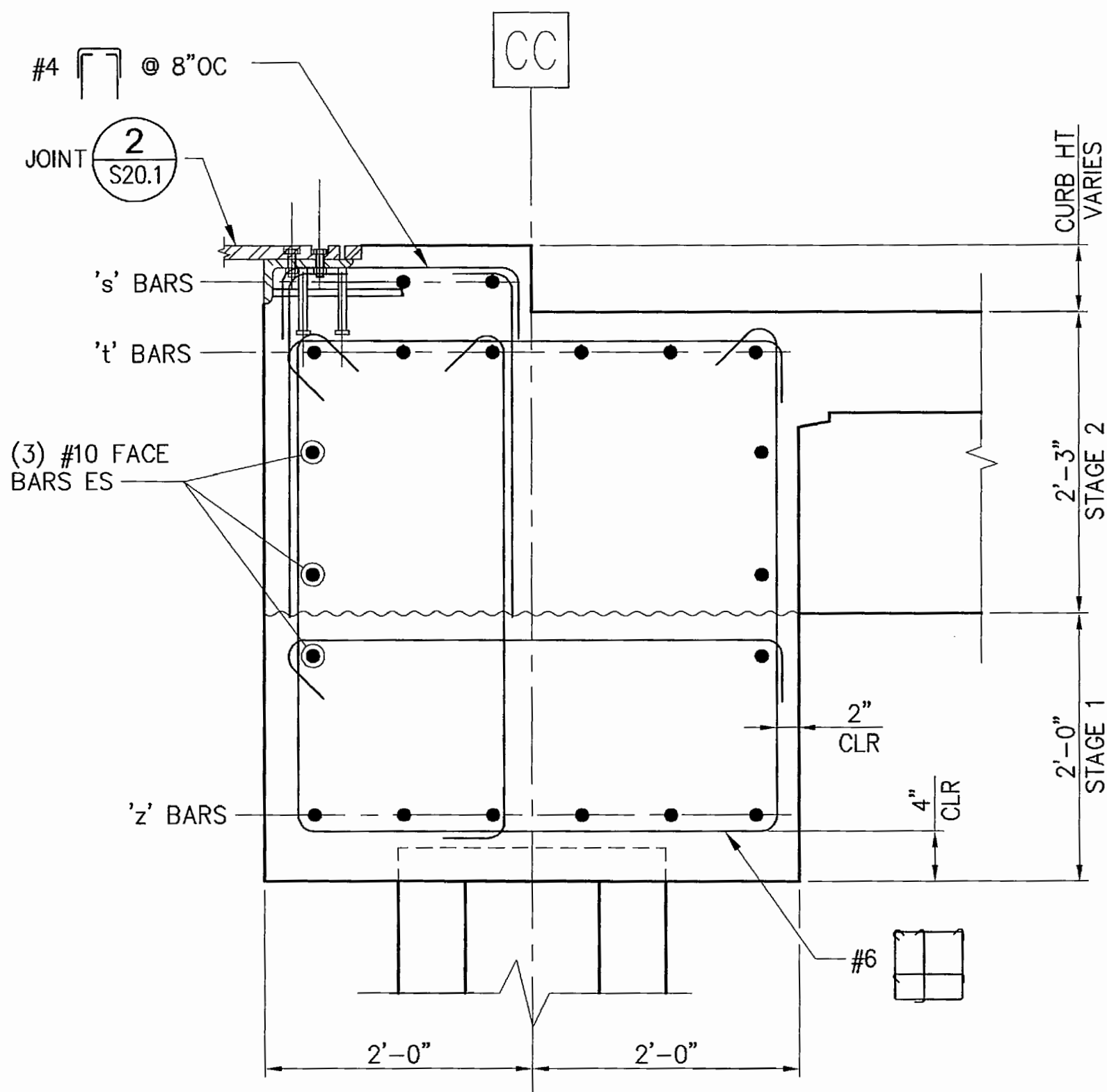


CONDUIT AND CONDUCTOR SCHEDULE											
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS		
	NO.	SIZE	TYPE	NO.	SIZE	TYPE					
SL1	4	2"	③	3/1	0/6	XHHW-2	PANEL 4G	LIGHTING CONTROL OG	⑧		
SL2	4	2"	②③	3/1	0/6	XHHW-2	LIGHTING CONTROL OG	PV114			
SL3	2	2"	②③	3/1	0/6	XHHW-2	PV114	PV113			
SL4	2	2"	②③	3/1	0/6	XHHW-2	PV113	POLE YL09			
SL5	2	2"	②③	3/1	0/6	XHHW-2	PV113	PV112			
SL6	2	2"	②③	3/1	0/6	XHHW-2	PV112	POLE YL08	⑫		
SL7	3	2"	②③	3/1	0/6	XHHW-2	PV114	PV115			
SL8	2	2"	②③	3/1	0/6	XHHW-2	PV115	POLE YL10			
SL9	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV117			
SL10	1	2"	②③	3/1	0/6	XHHW-2	PV117	POLE YL25			
SL11	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV116			
SL12	2	2"	②③	3/1	0/6	XHHW-2	PV116	POLE YL11			
SL13	2	2"	②③	3/1	0/6	XHHW-2	PV115	PV111			
SL14	2	2"	②③	3/1	0/6	XHHW-2	PV111	POLE YL07			
SL15	2	2"	②③	3/1	0/6	XHHW-2	PV111	PV110			
SL16	2	2"	②③	3/1	0/6	XHHW-2	PV110	POLE YL06			
SL17	2	2"	②③	3/1	0/6	XHHW-2	PV109	PV108	⑩		
SL18	2	2"	②③	3/1	0/6	XHHW-2	PV108	POLE YL08	⑩		
SL19	4	2"	②③	3/1	0/6	XHHW-2	PANEL 4BR	LIGHTING CONTROL PANEL			
SL20	4	2"	②	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV122			
SL21	2	2"	②	3/1	0/6	XHHW-2	PV122	PV123			
SL22	2	2"	②	3/1	0/6	XHHW-2	PV123	POLE YL22			
SL23	2	2"	②	3/1	0/6	XHHW-2	PV123	PV124			
SL24	2	2"	②	3/1	0/6	XHHW-2	PV124	POLE YL23			
SL25	2	2"	②	3/1	0/6	XHHW-2	PV124	PV125			
SL26	2	2"	②	3/1	0/6	XHHW-2	PV125	POLE YL24			
SL27	2	2"	②	3/1	0/6	XHHW-2	PV122	PV121			
SL28	2	2"	②	3/1	0/6	XHHW-2	PV121	POLE YL19			
SL29	2	2"	②	3/1	0/6	XHHW-2	PV121	PV120			
SL30	2	2"	②	3/1	0/6	XHHW-2	PV120	POLE YL18			
SL31	2	2"	②	3/1	0/6	XHHW-2	PV122	PV121			
SL32	2	2"	③	3/1	0/6	XHHW-2	PV121	PV130			
SL33	2	2"	②	3/1	0/6	XHHW-2	PV130	POLE YL21			
SL34	2	2"	②	3/1	0/6	XHHW-2	PV130	PV131			
SL35	2	2"	②	3/1	0/6	XHHW-2	PV131	POLE YL20			
SL36	2	2"	②	3/1	0/6	XHHW-2	LIGHTING CONTROL PANEL	PV129			
SL37	2	2"	②	3/1	0/6	XHHW-2	PV129	PV128			
SL38	2	2"	②	3/1	0/6	XHHW-2	PV128	PV127			
SL39	2	2"	②	3/1	0/6	XHHW-2	PV127	POLE WYL10			
SL40	2	2"	②	3/1	0/6	XHHW-2	PV127	PV126			
SL41	2	2"	②	3/1	0/6	XHHW-2	PV126	POLE WYL11			
SL42	2	2"	②	3/1	0/6	XHHW-2	PV119	PV109			
SL43	2	2"	②	3/1	0/6	XHHW-2	PV108	POLE WYL01			
SL44	-	-	-	-	-	-	-	-	NOT USED		
SL45	2	2"	②	-	-	-	-	POLE WYL02	⑧		
SL46	2	2"	②	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132	⑧		
SL47	-	-	-	-	-	-	-	-	NOT USED		
SL48	2	2"	②	3/1	0/6	XHHW-2	PV133	POLE WYL09	⑧		
SL49	3	2"	②	3/1	0/6	XHHW-2	SUBSTATION #8418 LTG. CONT.	PV132			
SL50	3	2"	②	3/1	0/6	XHHW-2	PV132	PV134			
SL51	3	2"	②	3/1	0/6	XHHW-2	PV134	PV135			
SL52	2	2"	②	3/1	0/6	XHHW-2	PV135	POLE YL16			
SL53	2	2"	②	3/1	0/6	XHHW-2	PV135	PV136			
SL54	2	2"	②	3/1	0/6	XHHW-2	PV136	POLE YL17			
SL55	3	2"	②③	-	-	-	SUB #8410 LIGHTING CABINET	-			
SL56	3	2"	②③	3/1	0/6	XHHW-2	SUB #8410 LIGHTING CABINET	EXISTING 480V PULLBOX			
SL57	1	2"	②③	6/1	0/8	XHHW-2	LIGHTING POLE WYL04	VAULT AT BENT 92	YARD & SECURITY LTG ⑩		
SL58	1	1-1/2"	②	3/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX 11	WHARF LTG		
SL59	1	2"	②	6/1	0/6	XHHW-2	LIGHTING CONTROL CABINET	PULLBOX 11	YARD & SECURITY LTG		
SL60	1	1-1/2"	②	3/1	0/6	XHHW-2	PULLBOX 11	PULLBOX 12	WHARF LTG		
SL61	1	2"	②	6/1	0/6	XHHW-2	PULLBOX 11	PULLBOX 12	YARD & SECURITY LTG		
SL62	1	2"	②③	3/1	0/6	XHHW-2	PULLBOX 12	LIGHTING POLE WYL02	WHARF LTG		
SL63	1	2"	②③	6/1	0/8	XHHW-2	PULLBOX 12	LIGHTING POLE WYL02	YARD & SECURITY LTG		
SL64	1	1-1/2"	②	3/1	0/6	XHHW-2	PULLBOX 12	PULLBOX 13	WHARF LTG		
SL65	1	2"	②	6/1	0/6	XHHW-2	PULLBOX 12	PULLBOX 13	YARD & SECURITY LTG		
SL66	1	2"	②③	3/1	0/6	XHHW-2	PULLBOX 13	PV119	WHARF LTG		
SL67	1	2"	②③	6/1	0/6	XHHW-2	PULLBOX 13	PV119	YARD & SECURITY LTG		
SL1 THRU SL15									⑨		
SL80	1	2"	⑩	3/1	0/6	XHHW-2	SDV22	POLE WYL05	WHARF LTG		
SL81	1	2"	⑩	3/1	0/6	XHHW-2	SDV22	POLE WYL05	YARD LTG		
SL82	1	2"	⑩	3/1	0/6	XHHW-2	SDV22	POLE WYL05	SECURITY LTG		
SL83	1	2"	②	3/1	0/6	XHHW-2	SDV21	SDV22	WHARF LTG		
SL84	1	2"	②	3/1	0/6	XHHW-2	SDV21	SDV22	YARD LTG		
SL85	1	2"	②	3/1	0/6	XHHW-2	SDV21	SDV22	SECURITY LTG		
SL86	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV21	WHARF LTG		
SL87	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV21	YARD LTG		
SL88	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV21	SECURITY LTG		
SL89	1	2"	⑩	3/1	0/6	XHHW-2	SDV20	POLE WYL04	WHARF LTG		
SL90	1	2"	⑩	3/1	0/6	XHHW-2	SDV20	POLE WYL04	YARD LTG		
SL91	1	2"	⑩	3/1	0/6	XHHW-2	SDV20	POLE WYL04	SECURITY LTG		
SL92	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV20	WHARF LTG		
SL93	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV20	YARD LTG		
SL94	1	2"	②	3/1	0/6	XHHW-2	SDV19	SDV20	SECURITY LTG		
SL95	1	2"	②	3/1	0/6	XHHW-2	SDV18	SDV19	WHARF LTG		
SL96	1	2"	②	3/1	0/6	XHHW-2	SDV18	SDV19	YARD LTG		
SL97	1	2"	②	3/1	0/6	XHHW-2	SDV18	SDV19	SECURITY LTG		

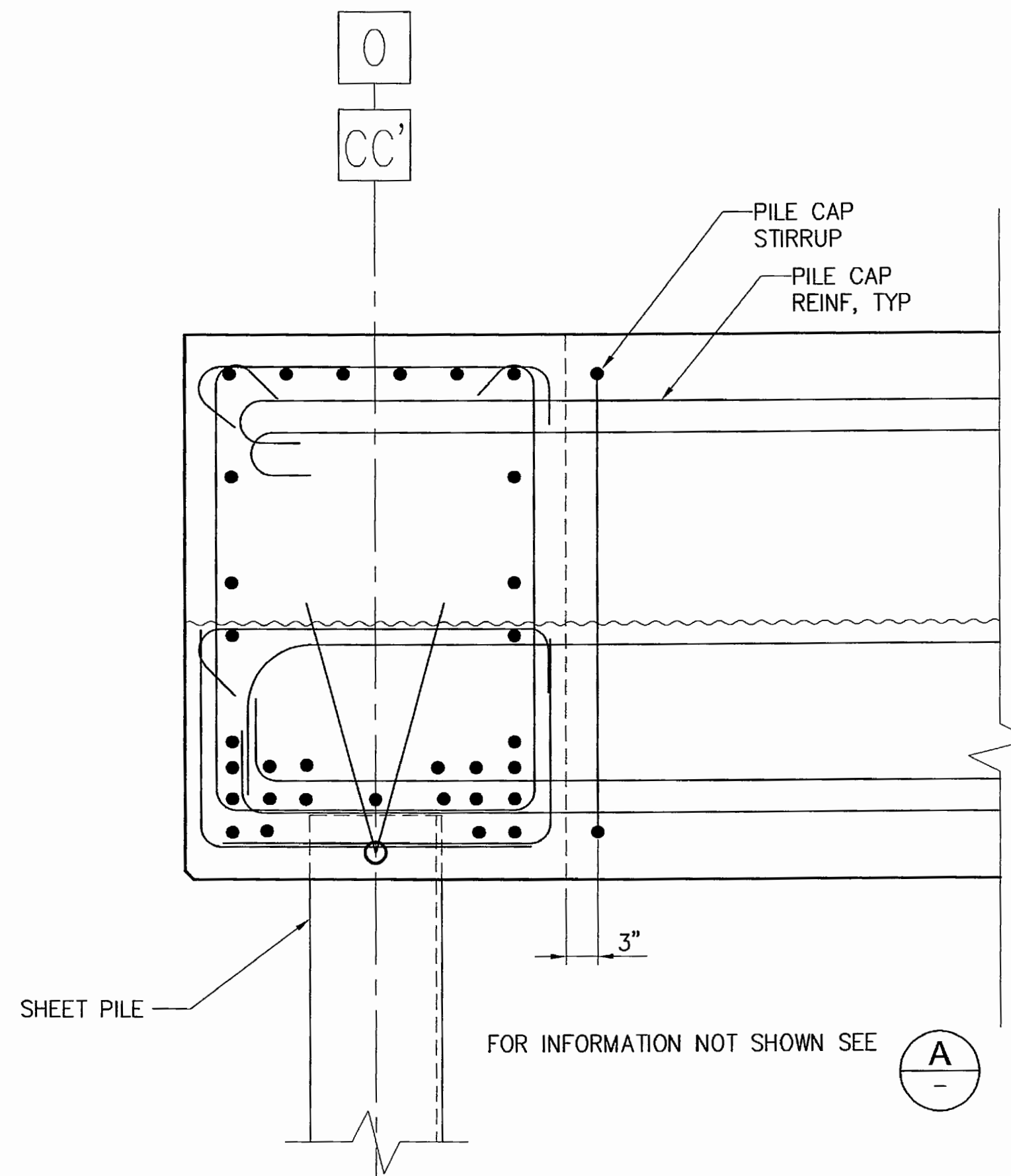
CONDUIT AND CONDUCTOR SCHEDULE											
CONDUIT NUMBER	CONDUIT			CONDUCTOR			FROM	TO	REMARKS		
	NO.	SIZE	TYPE	NO.	SIZE	TYPE					
SL98	1	2"	②⑩	3/1	0/6	XHHW-2	SDV18	POLE WYL03	WHARF LTG		
SL99	1	2"	②⑩	3/1	0/6	XHHW-2	SDV18	POLE WYL03	YARD LTG		
SL100	1	2"	②⑩	3/1	0/6	XHHW-2	SDV18	POLE WYL03	SECURITY LTG		
SL101	1	2"	②	3/1	0/6	XHHW-2	SDV17	SDV18 SDV23	WHARF LTG		
SL102	1	2"	②	3/1	0/6	XHHW-2	SDV17	SDV18 SDV23	YARD LTG		
SL103	1	2"	②	3/1	0/6	XHHW-2	SDV17	SDV18 SDV23	SECURITY LTG		
SL104	1	2"	②	3/1	0/6	XHHW-2	SDV16	SDV17	WHARF LTG		
SL105	1	2"	②	3/1	0/6	XHHW-2	SDV16	SDV17	YARD LTG		
SL106	1	2"	②	3/1	0/6	XHHW-2	SDV16	SDV17	SECURITY LTG		
SL107	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV16	WHARF LTG		
SL108	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV16	YARD LTG		
SL109	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV16	SECURITY LTG		
SL110	1	2"	⑩	3/1	0/6	XHHW-2	SDV13	POLE YL05	WHARF LTG		
SL111	1	2"	⑩	3/1	0/6	XHHW-2	SDV13	POLE YL05	YARD LTG		
SL112	1	2"	⑩	3/1	0/6	XHHW-2	SDV13	POLE YL05	SECURITY LTG		
SL113	1	2"	②	3/1	0/6	XHHW-2	SDV12	SDV13	WHARF LTG		
SL114	1	2"	②	3/1	0/6	XHHW-2	SDV12	SDV13	YARD LTG		
SL115	1	2"	②	3/1	0/6	XHHW-2	SDV12	SDV13	SECURITY LTG		
SL116	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV12	WHARF LTG		
SL117	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV12	YARD LTG		
SL118	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV12	SECURITY LTG		
SL119	1	2"	⑩	3/1	0/6	XHHW-2	SDV11	POLE WYL01	WHARF LTG		
SL120	1	2"	⑩	3/1	0/6	XHHW-2	SDV11	POLE WYL01	YARD LTG		
SL121	1	2"	⑩	3/1	0/6	XHHW-2	SDV11	POLE WYL01	SECURITY LTG		
SL122	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV11	WHARF LTG		
SL123	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV11	YARD LTG		
SL124	1	2"	②	3/1	0/6	XHHW-2	SDV10	SDV11	SECURITY LTG		
SL125	1	2"	②	3/1	0/6	XHHW-2	SDV9	SDV10	WHARF LTG		
SL126	1	2"	②	3/1	0/6	XHHW-2	SDV9	SDV10	YARD LTG		
SL127	1	2"	②	3/1	0/6	XHHW-2	SDV9	SDV10	SECURITY LTG		
SL128	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV9	WHARF LTG		
SL129	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV9	YARD LTG		
SL130	1	2"	②	3/1	0/6	XHHW-2	SDV8	SDV9	SECURITY LTG		
SL131	1	2"	②	3/1	0/6	XHHW-2	SDV7	SDV8	WHARF LTG		
SL132	1	2"	②	3/1	0/6	XHHW-2	SDV7	SDV8	YARD LTG		
SL133	1	2"	②	3/1	0/6	XHHW-2	SDV7	SDV8	SECURITY LTG		
SL134	1	2"	⑩	3/1	0/6	XHHW-2	SDV7	POLE WYL02	WHARF LTG		
SL135	1	2"	⑩	3/1	0/6	XHHW-2	SDV7	POLE WYL02	YARD LTG		
SL136	1	2"	⑩	3/1	0/6	XHHW-2	SDV7	POLE WYL02	SECURITY LTG		
SL137	1	2"	⑩	3/1	0/6	XHHW-2	WHARF CONTACTOR ENCLOSURE	SDV7	WHARF LTG		
SL138	1	2"	⑩	3/1	0/6	XHHW-2	WHARF CONTACTOR ENCLOSURE	SDV7	YARD LTG		
SL139	1	2"	⑩	3/1	0/6	XHHW-2	WHARF CONTACTOR ENCLOSURE	SDV7	SECURITY LTG		
SL140	1	2"	⑩	3/1	0/6	XHHW-2	SWBD P44	WHARF CONTACTOR ENCLOSURE	WHARF LTG		
SL141	1	2"	⑩	3/1	0/6	XHHW-2	SWBD P44	WHARF CONTACTOR ENCLOSURE	YARD LTG		
SL142	1	2"	⑩	3/1	0/6	XHHW-2	SWBD P44	WHARF CONTACTOR ENCLOSURE	SECURITY LTG		
SL143	1	2"	②	3/1	0/6	XHHW-2	SDV9	LTG POLE #YL12	YARD LTG		
SL144	1	2"	②	3/1	0/6	XHHW-2	SDV9	LTG POLE #YL12	SECURITY LTG		
SL145	1	2"	②	3/1	0/6	XHHW-2	SDV23	SDV18	WHARF LTG		
SL146	1	2"	②	3/1	0/6	XHHW-2	SDV23	SDV18	YARD LTG		
SL147	1	2"	②	3/1	0/6	XHHW-2	SDV23	SDV18	SECURITY LTG		



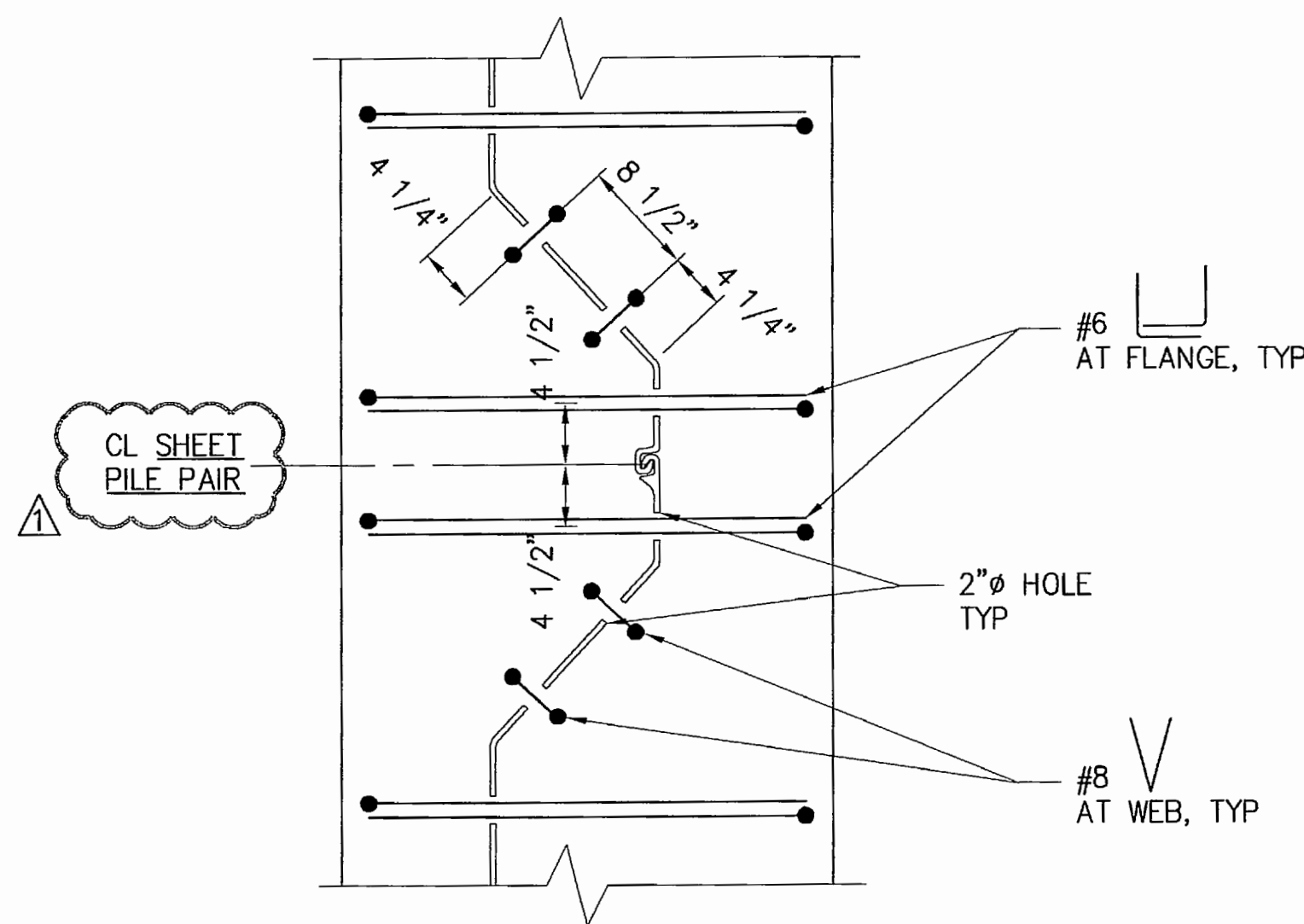
**A SHEET PILE CAP TYPICAL SECTION**  
S12.1 1"=1'-0"



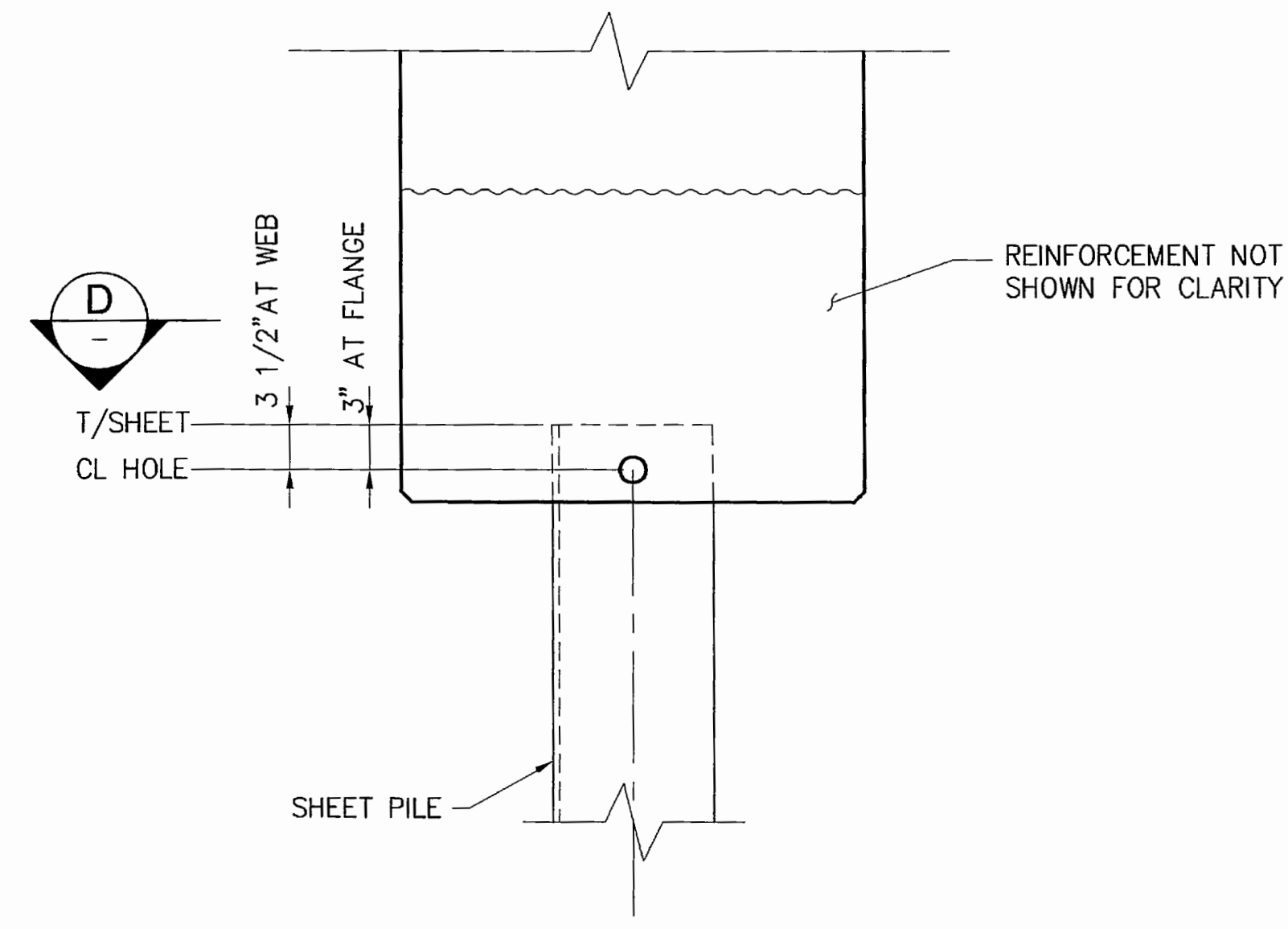
**C EDGE BEAM SECTION AT CC**  
S12.1 1"=1'-0"



**B SHEET PILE CAP SECTION AT PILE CAP**  
S12.1 1"=1'-0"



**D SHEET PILE SECTION**  
1"=1'-0"

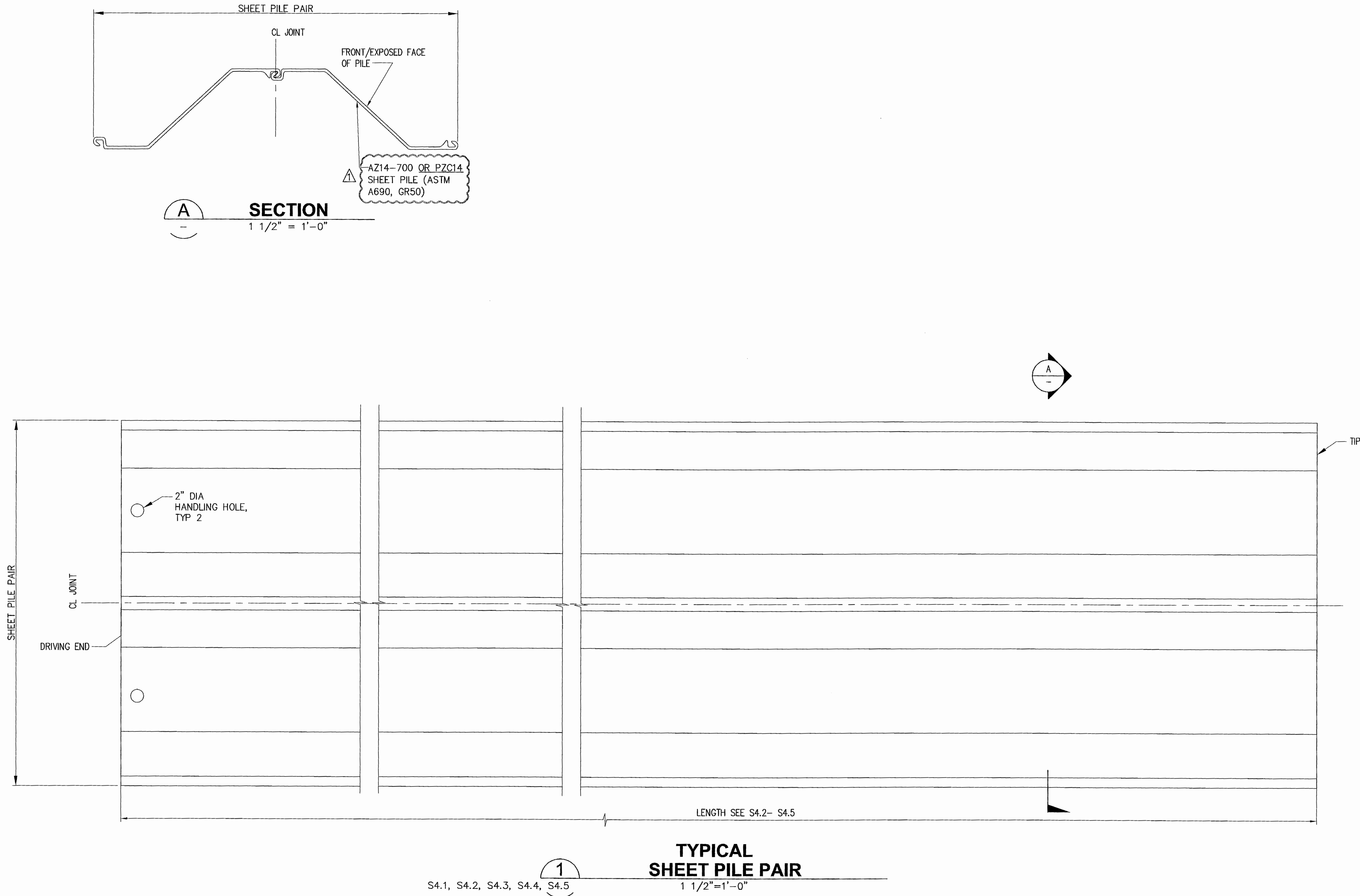


**1 DETAIL**  
1"=1'-0"

**NOTES:**

1. FOR PILE CAP REINFORCEMENT SEE SHEETS S9.1 - S9.16

6552 <b>S13.1</b> SH 253 OF 499	PIER 4 PHASE 2 RECONFIGURATION SHEET PILE WALL CAP BEAM SECTIONS AND DETAILS				APPROVED: <i>[Signature]</i> DATE: 5-11-16		SEK	CHECKED BY: <i>[Signature]</i> DATE: 5-11-16
	CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE: 5-11-16	PROJ. ENGR DATE: 5-11-16	TAH	TAH
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLIW 19.39 @ Tide 22 1933	PARCEL: 091251	PORT ADDRESS: ONE SITCUM PLAZA	PRINTED BY: tlemmons May 10, 2016	PROJ. ENGR DATE: 5-11-16	TAH	TAH
PHASE: BID	DRAWING SCALE: AS NOTED			TACOMA, WA 98401-1837		PER ADDENDUM #5	TAH	TAH
2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 396-0150 FAX (253) 396-0162				Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401-1837		BY: <i>[Signature]</i> DATE: 5/10/16	APPR: <i>[Signature]</i> DATE: 5/10/16	SEK



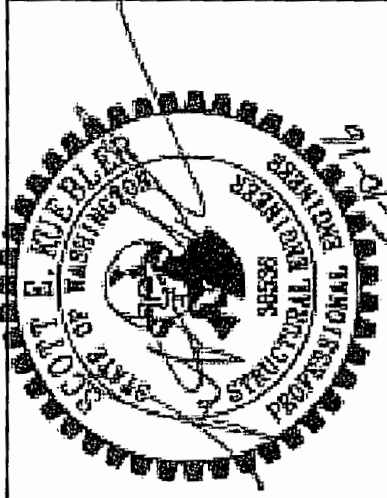
**TYPICAL  
SHEET PILE PAIR**

S4.1, S4.2, S4.3, S4.4, S4.5

6552  
**S41.1**  
SH 379 OF 499

**PIER 4 PHASE 2  
RECONFIGURATION  
STEEL SHEET PILE DETAILS**

CONT/CONS: 070136	TOWNSHIP: 21N	RANGE: 3E	SECTION: 27	DIRECTOR ENG. DATE: 5-11-16	APPROVED: [Signature]	SEK CHECKED BY: TAH
M. ID: 091251	DAT-HRZ: WA83-SF	VERT: MLLW 19.39' @ Tide 22 1933	PRINTED BY: [Signature]	PRINTED BY: [Signature]	DATE: 5-11-16	DATE: 5-11-16
PHASE: BID	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837		



**kprff**

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

**Port of  
Tacoma**  
P.O. BOX 1837 TACOMA, WA 98401 (253)396-0162

MARK: 1	REVISION: PER ADDENDUM #5	BY: TAH	APPR: [Signature]	DATE: 5/10/16

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION