

**ADDENDUM NO. 1
TO THE
SPECIFICATIONS, PROPOSAL, AND CONTRACT DOCUMENTS**

FOR:

**TOTEM LAKE CONNECTOR BRIDGE
JOB # 01-20-PW/NMC0861000**

CITY OF KIRKLAND, WASHINGTON

Certificate of Engineer:

This Addendum has been prepared by or under the direction of the undersigned, whose seal as a Professional Engineer licensed to practice in the State of Washington, is affixed below.



Approved for Construction:

A handwritten signature in blue ink, appearing to read "Rod Steitzer", written over a horizontal line.

Rod Steitzer, P.E.
Capital Projects Manager

To: All Holders of Specifications, Proposal, and Contract Documents

This addendum is hereby made a part of the contract documents to the same extent as though it were originally included therein.

This addendum contains 16 pages, including the cover page.

Issued this 14th day of February 2020

Bidders are to acknowledge receipt of this addendum in the space provided on the Bid Proposal (PROPOSAL – Page 6). Failure to do so may subject the bidder to disqualification.

ITEM NO. 1: Bid Schedule

Replace the entire Bid Schedule with the attached Bid Schedule revised 02/05/2020:

- A. Added Bid item No. 19, **VEGETATED FACED MSE WALL**.
(added bid item grey highlight)

- B. Bid item No. 67, CEMENT CONC. SIDEWALK, estimated quantity changed to **48 SY**.
(changed bid quantity grey highlight)

CITY OF KIRKLAND
BID SCHEDULE (rev. 2/14/2020)

TOTEM LAKE CONNECTOR BRIDGE
 JOB NO. 20-01-PW

Note: Unit prices for all items, all extensions, and the total amount of the bid must be shown. All entries must be typed or entered in ink.

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
1.	MOBILIZATION	1-09	1	L.S.		
2.	STRUCTURE EXCAVATION CLASS A INCL. HAUL	2-09	281	C.Y.		
3.	SHORING OR EXTRA EXCAVATION CL. A	2-09, 8-19	1	L.S.		
4.	CONC. CLASS 4000 (FOR ABUTMENTS AND PIERS)	6-02	297	C.Y.		
5.	STEEL REINFORCING BAR FOR ABUTMENTS AND PIERS	6-02	87540	LB.		
6.	CONSTRUCTING 4 FT. DIAM SHAFT	6-19	70	L.F.		
7.	CONSTRUCTING 4'-11" DIAM SHAFT	6-19	490.5	L.F.		
8.	CONSTRUCTING 6.56 FT. DIAM SHAFT	6-19	310	L.F.		
9.	QA SHAFT TEST	6-19	15	EACH		
10.	REMOVING SHAFT OBSTRUCTIONS	6-19	1	EST.	147,000	147,000
11.	PRESTRESSING BAR - SUBSTR.	6-02	5	EACH		
12.	STRUCTURAL LOW ALLOY STEEL - SUBSTR.	6-03	1	L.S.		
13.	STRUCTURE SURVEYING	1-05	1	LS		
14.	BRIDGE DECK (TOTEM LAKE CONNECTOR)	6-02	1	L.S.		
15.	STRUCTURAL LOW ALLOY STEEL - SUPERSTR.	6-03	1	L.S.		
16.	DISC BEARING - SUPERSTR.	6-02	14	EACH		

BID SCHEDULE (rev. 2/14/2020)

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
17.	VIBRATION DAMPERS	6-20	2	EACH		
18.	BRIDGE RAILING - SUPERSTRUCTURE	6-06	1651	L.F.		
19.	VEGETATED FACED MSE WALL	6-14	4484	S.F.		
20.	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	6-14	2461	C.Y.		
21.	BRIDGE RAILING - MSE WALLS	6-06	542	L.F.		
22.	POST FOUNDATIONS	6-06	103	EACH		
23.	BRIDGE APPROACH SLAB	6-02	36	S.Y.		
24.	CONC. CLASS 4000 (FOR LUMINAIRE FOUNDATIONS)	6-02	5	C.Y.		
25.	STEEL REINFORCING BAR FOR LUMINAIRE FOUNDATIONS	6-02	1230	LB.		
26.	SOIL TIE-BACK GRID AT ABUTMENT 1	6-02	1	LS		
27.	ILLUMINATION SYSTEM	8-20, 8-30	1	L.S.		
28.	PROJECT TEMPORARY TRAFFIC CONTROL (min. bid. \$219,000)	1-10	1	LS		
29.	EROSION CONTROL AND WATER POLLUTION PREVENTION, SOUTH WORK AREA	8-01	1	LS		
30.	EROSION CONTROL AND WATER POLLUTION PREVENTION, TRAFFIC ISLAND WORK AREA	8-01	1	LS		
31.	EROSION CONTROL AND WATER POLLUTION PREVENTION, NORTH WORK AREA	8-01	1	LS		
32.	ESC LEAD	8-01	120	DAY		
33.	SPCC PLAN (min. bid \$2,500)	1-07	1	LS		

BID SCHEDULE (rev. 2/14/2020)

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
34.	CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (min. bid \$5,000)	8-01	1	LS		
35.	TEMPORARY STORM DRAIN BYPASS	8-01	1	LS		
36.	PROJECT INFORMATIONAL SIGNS	8-21	4	EA		
37.	CLEARING AND GRUBBING	2-01	2.6	AC		
38.	QUARRY SPALLS, 2"-4"	8-15	2	TN		
39.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	2-02	1	LS		
40.	REMOVE TREE	2-01	67	EA		
41.	SALVAGE SIGNS	2-02	1	LS		
42.	HIGH VISIBILITY FENCE	8-01	1600	LF		
43.	STABILIZED CONSTRUCTION ENTRANCE	8-01	560	SY		
44.	ROADWAY SURVEYING	1-05	1	LS		
45.	ROADSIDE CLEANUP	2-01	1	FA	7,000	7,000
46.	REHAB AND COAT EXISTING SANITARY SEWER MANHOLE	7-05	1	LS		
47.	ROADWAY EXCAVATION INCL. HAUL	2-03	2550	CY		
48.	SELECT BORROW INCL. HAUL	2-03	200	TN		
49.	COMMON BORROW INCL. HAUL	2-03	450	TN		
50.	TOPSOIL TYPE A	8-02	1061	CY		
51.	SOLID WALL PVC STORM SEWER PIPE 8-IN DIAM	7-04	270	LF		
52.	PRECAST REINF. CONC. BOX CULVERT	7-02	1	LS		
53.	CATCH BASIN TYPE 1	7-05	3	EA		

BID SCHEDULE (rev. 2/14/2020)

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
54.	ROCK FOR EROSION AND SCOUR PROTECTION, CLASS A	8-15	70	TN		
55.	BIORETENTION SOIL MIX	8-02	98	CY		
56.	STREAMBED BOULDER ONE MAN	8-02	153	EA		
57.	FLEXIBLE GUIDE POST	8-10	4	EA		
58.	PAINT LINE	8-22	68	LF		
59.	ROCKERY	8-24	120	SF		
60.	PHMA CL 1/2" IN. PG 70-22ER	5-04	365	TN		
61.	HMA CL 1/2 IN. PG 64-22	5-04	33	TN		
62.	PERMEABLE BALLAST	4-04	715	TN		
63.	CRUSHED SURFACING TOP COURSE	4-04	126	TN		
64.	CRUSHED SURFACING BASE COURSE	4-04	145	TN		
65.	CRUSHED SURFACING FOR TRAIL	4-04	25	TN		
66.	CEMENT CONC. TRAFFIC CURB & GUTTER	8-04	140	LF		
67.	CEMENT CONC. SIDEWALK	8-14	30 48	SY		
68.	LARGE WOODY DEBRIS	8-02	1	LS		
69.	JUTE MATTING	2-01	78460	SF		
70.	SNAGS	8-26	5	EA		
71.	ARBORIST WOOD CHIP MULCH	8-02	1.7	AC		
72.	MEDIUM COMPOST	8-02	0.13	AC		
73.	STEPPING STONES	8-02	1	LS		
74.	SPLIT RAIL FENCE	8-02	140	LF		

BID SCHEDULE (rev. 2/14/2020)

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
75.	REINFORCED LAWN SURFACING	8-02	1	LS		
76.	SEATING	8-27	1	LS		
77.	THERMOPLASTIC PAVEMENT MARKINGS	8-31	1	LS		
78.	GLASS PANELS	8-32	3	Each		
79.	PEDESTRIAN HANDRAIL	8-28	32	LF		
80.	PERMANENT SIGNING	8-21	1	LS		
81.	GARBAGE RECEPTACLE	8-33	2	Each		
82.	IRRIGATION SYSTEM, SOUTH AREA	8-03	1	LS		
83.	IRRIGATION SYSTEM, NORTH AREA	8-03	1	LS		
84.	SERVICE CONNECTION 3/4 IN. DIAM.	7-15	1	EA		
85.	PSIPE 4" POTS	8-02	11787	EA		
86.	PSIPE 10 CU IN PLUGS	8-02	1710	EA		
87.	PSIPE 40 CU IN PLUGS	8-02	510	EA		
88.	PSIPE 2 GALLON POTS	8-02	716	EA		
89.	PSIPE 5 GALLON CONTAINERS	8-02	36	EA		
90.	PSIPE LIVE STAKES	8-02	290	EA		
91.	PSIPE BARERROOT 12" - 18"	8-02	240	EA		
92.	PSIPE 6' HT TREE	8-02	15	EA		
93.	SOD INSTALLATION	8-02	665	SY		
94.	SEEDED LAWN INSTALLATION	8-02	777	SY		
95.	DRAINAGE DITCH SEEDING MIX	8-02	398	SY		

BID SCHEDULE (rev. 2/14/2020)

Item No.	Item Description	Spec Ref.	Est. Qty.	Unit	Unit Price	Amount
96.	LAWN MOWING	8-02	1	LS		
97.	RECORD DRAWINGS (min. bid \$5,000)	1-05	1	LS		

TOTAL COMPUTED PRICE: \$ _____

ITEM NO. 2: Section 8-28 Pedestrian HandRail

- A. The Title of section **8-28 Pedestrian Handrail** refers to plan sheet TLC-S-223 and the title on said plan sheet, "Sidewalk Guardrail Details" shall be interpreted to refer to the specification section **8-28 Pedestrian Handrail**.

Bid item No. 79, Pedestrian Handrail shall likewise be interpreted as the bid item referring to items shown on plan sheet TLC-S-223 titled "Sidewalk Guardrail Details".

- B. **Section 8-28.2 Material** is supplemented with the following:

"Finish shall be the galvanized undercoat and powder coat finish offered by the manufacturer. Color shall be Midnight, RAL 9005 (black)."

ITEM NO. 3: Section 2-02 Removal of Structures and Obstructions

Section 2-02.1 Description is modified as-follows:

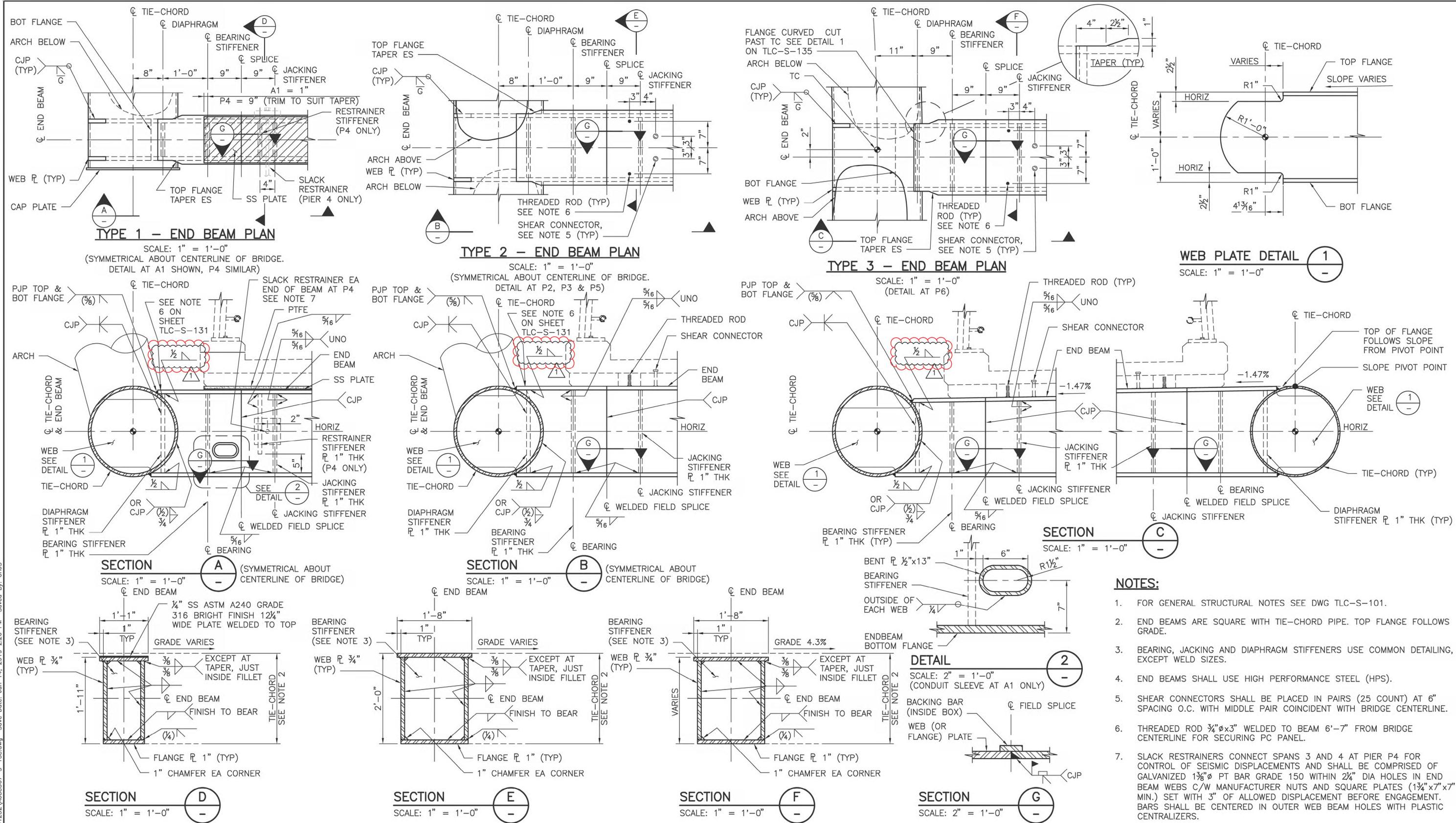
Bullet No. 5, Signal House, as shown below, is deleted from the contract and the work.

- *Signal house, including the removal and disposal of structural foundations and interior contents.*

ITEM NO. 4: Plan Sheet TLC-S-138 Replacement

Replace plan sheet TLC-S-138 dated 12/06/2019 (Issued for Bid) with this plan sheet TLC-S-138 Rev.1 dated 2/11/2020.

Reason for replacement: Sections A, B and C have been modified as indicated by **red outlines** shown.



- NOTES:**
- FOR GENERAL STRUCTURAL NOTES SEE DWG TLC-S-101.
 - END BEAMS ARE SQUARE WITH TIE-CHORD PIPE. TOP FLANGE FOLLOWS GRADE.
 - BEARING, JACKING AND DIAPHRAGM STIFFENERS USE COMMON DETAILING, EXCEPT WELD SIZES.
 - END BEAMS SHALL USE HIGH PERFORMANCE STEEL (HPS).
 - SHEAR CONNECTORS SHALL BE PLACED IN PAIRS (25 COUNT) AT 6" SPACING O.C. WITH MIDDLE PAIR COINCIDENT WITH BRIDGE CENTERLINE.
 - THREADED ROD 3/4" x 3" WELDED TO BEAM 6"-7" FROM BRIDGE CENTERLINE FOR SECURING PC PANEL.
 - SLACK RESTRAINERS CONNECT SPANS 3 AND 4 AT PIER P4 FOR CONTROL OF SEISMIC DISPLACEMENTS AND SHALL BE COMPRISED OF GALVANIZED 1 3/8" PT BAR GRADE 150 WITHIN 2 1/4" DIA HOLES IN END BEAM WEBS C/W MANUFACTURER NUTS AND SQUARE PLATES (1 3/4" x 7" x 7" MIN.) SET WITH 3" OF ALLOWED DISPLACEMENT BEFORE ENGAGEMENT. BARS SHALL BE CENTERED IN OUTER WEB BEAM HOLES WITH PLASTIC CENTRALIZERS.

CITY OF KIRKLAND
DEPARTMENT OF PUBLIC WORKS
123 FIFTH AVENUE KIRKLAND, WA 98033
(425) 587-3800 www.kirklandwa.gov

NO.	DATE	BY	APPR.	REVISION
1	2020/02/11	CHJS	MWBM	AMENDMENT 1
0	2019/12/06	CHJS	MWBM	ISSUE FOR BID



APPROVED BY:
DATE:

DESIGNED BY: 2019/12/06
DRAWN BY: 2019/12/06
CHECKED BY: 2019/12/06

CITY OF KIRKLAND
TOTEM LAKE CONNECTION
**SUPERSTRUCTURE
END BEAM DETAILS - SHEET 1**
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SHEET:
TLC-S-138
SCALE:
AS SHOWN
FILENAME:
A088367-S-138.dwg

File: D:\projects\kirkland\0301252\A088367-S-138.dwg Save Date: Jun 14, 2019 2:26 PM Saved By: CHJS

ITEM NO. 5: Section 6-03 Replacement of Special Provisions

Replace Special Provision 6-03 in its entirety with the Special Provision Section 6-03 dated Rev. 2/14/2020 (supplementations in red) as shown below:

6-03 Steel Structures

6-03.2 Materials

Section 6-03.2 is supplemented with the following:

(*****)

Tie-Chord and Arch pipes shall be manufactured according to API Specification 5L with Delivery Condition PSL2 including Annexes B and E, with the following adaptations for pipes not intended for pressure purposes:

- Minimum Charpy V-Notch (CVN) toughness after manufacture (including bending) for both Pipe Body Tests and Pipe Weld and HAZ Tests (API 5L #9.8) shall be at least 25 ft-lbs at 40°F. (Note that the CVN of the material before manufacture must be higher than the above minimum if cold forming/bending, as it reduces the CVN.) The method and procedures for bending the pipes to the final geometry as shown in the Plans and achieving the required toughness shall be submitted to the Engineer for review and approval prior to fabrication. The Contractor shall make allowance for testing on material after bending if necessary.
- The following tests in API 5L are not required:
 - Hydrostatic test #9.4
 - Flattening test #9.6
 - DWT test #9.9
 - Weighing #10.2.9

6-03.3 Construction Requirements

6-03.3(7) Shop Plans

Section 6-03.3(7) is supplemented with the following:

(*****)

The Contractor shall submit drawings and documents that identify interface items and maps out the fabrication process.

6-03.3(7)A Erection Methods

Section 6-03.3(7)A is supplemented with the following:

(*****)

The Contractor shall conduct a Pre-Pick Safety Meeting with the Engineer after addressing comments on the Type 2E Working Drawings, and prior to erecting any steel members, to review the erection plan and procedures on site. Representatives of the Contractor, the Owner, and Engineer must attend and participate in the Pre-Pick Safety Meeting to confirm the methods the Contractor intends to use are acceptable. Final review and approval of the Type 2E Working Drawings will not be completed until after this meeting.

6-03.3(25) Welding and Repair Welding

Section 6-03.3(25) is supplemented with the following:

(*****)

Welding and Repair Welding for Welded Tubular Members

All work for welded tubular members, connections, and appurtenances shall be in accordance with AWS D1.1/D1.1M:2015 Structural Welding Code (AWS D1.1). Additionally, the following requirements of AWS D1.5/D1.5M:2015 Bridge Welding Code (AWS D1.5) shall apply:

- Moisture and hydrogen control
- Minimum preheat and interpass temperatures
- Maximum electrode diameter Welding and repair welding for steel elements of the bridge not covered by AASHTO/AWS D1.5/D1.5M shall comply with AWS D1.1/D1.1M, latest edition, Structural Welding Code.
- Maximum fillet weld size
- Maximum weld layer thickness
- CVN testing requirements. Base metal CVNs shall meet a value of 15 ft-lbs at 40°F for non-Fracture Critical tension members and shall meet a value of 25 ft-lbs at 40°F for Fracture Critical Members (FCM).

Tubular members designated as FCM in the Plans shall also follow the provisions of AWS D1.5 Clause 12 with the following additions and modifications:

- For the purposes of determining preheat and interpass temperatures, the values for AASHTO M 270 (ASTM A 709) may be used
- For the purposes of determining CVN test values of weld metal, the values for AASTHO M270 (ASTM A 709) may be used.

All tubular members shall be considered cyclically loaded and weld details for cyclically loaded tubular members as specified in AWS D1.1 shall be used.

Backing for tubular member girth or butt welds shall be continuous.

All welds require Welding Procedure Specification (WPS) qualification. WPS Qualification shall be in accordance with AWS D1.1 Clause 4 or 9. For WPS parameter development, production welding heat input shall be maintained between 60 percent and 100 percent of the qualified maximum Procedure Qualification Record (PQR) heat input.

All welders shall be qualified in accordance with AWS D1.1 Clause 4.

6-03.3(28) Shop Assembly

6-03.3(28)A Method of Shop Assembly

Section 6-03.3(28)A is supplemented with the following:

(*****)

Progressive Arch (Truss) assembly – The superstructure shall be assembled span by span and shall include all elements above the bearings (End Beams, Floor Beams, Arches, Tie-Chords, Hangers, etc.). Each next span of the shop assembly shall be assembled to one of the previous assemblies, repositioned if necessary, and pinned to ensure accurate alignment. **Each assembled span shall be surveyed and submitted to the Engineer for review and acceptance prior to shipping. At a minimum, survey shall include bearing and field splice work points.**

Contractor shall confirm that the pipe ovality of two adjoining members are not in opposite directions at all CJP field welded splice locations.

Anchor bolt templates shall be fabricated in the same shop in which the arch truss is assembled, and then shipped to site with anchor bolts attached to template plate.

6-03.3(28)B Check of Shop Assembly

Section 6-03.3(28)B is supplemented with the following:

(August 3, 2015)

If an assembly or stage of assembly is not accepted by the Engineer, deficiencies shall be corrected and the assembly or stage of assembly shall be resubmitted to the Engineer for acceptance.

6-03.3(30) Painting

Section 6-03.3(30) is supplemented with the following:

(*****)

Paint for the new steel, excluding "strut" pipe at Piers 2-6, maintenance walkway in spans 2 and 4, and bridge railing shall be applied in accordance with Section 6-07.3(9). The color of the top coat, when dry, shall match Federal Standard 595 Paint Specification Color: "Medium Blue" FS 35177 (RGB Hex Code:436F94).

A color swatch shall be submitted for approval prior to ordering the paint top coat.

A mockup shall be submitted for approval, consisting of a painted 36" long section of the 20" diameter pipe section.

The interior surface of pipes and HSS members is not required to be painted. The Contractor shall ensure the inside of hollow members is kept dry.

(*****)

6-03.3(44) Slack Restrainer

Slack restrainers at Pier 4 shall be as specified in the Plans. The PT bars shall conform to ASTM A722, with associated nuts and washers per the manufacturer.

6-03.4 Measurement

Section 6-03.4 is supplemented with the following:

(*****)

“Structural Low Alloy Steel – Substr.” contains the following approximate quantities of materials and work as shown in the Plans for Piers 2-6 and Piers 7-11, but does not represent all work included in this item:

Rectangular HSS	11,720	LBS
Steel Plate	9,310	LBS
Round HSS	1,770	LBS
Anchor Rods	20	Each

“Structural Low Alloy Steel – Superstr.” contains the following approximate quantities of materials and work as shown in the Plans for the superstructure, but does not represent all work included in this item:

Pipe	324,050	LBS
Steel Plate	75,500	LBS
Rolled W Sections	74,100	LBS
Round HSS	7,930	LBS
Rectangular HSS	340	LBS
Rolled L Sections	3,950	LBS
Rolled WT Sections	210	LBS
Shear Studs	2,606	Each
Bolts	696	Each
Threaded Rods	326	Each
Anchor Rods	52	Each
PT Bars	2	Each

The quantities are listed only for the convenience of the Contractor to assist in determining the volume of work involved and are not guaranteed to be accurate. The prospective bidders must verify these quantities before submitting a bid. No adjustments other than for approved changes will be made in the lump sum contract price for “Structural Low Alloy Steel – Substr.” And “Structural Low Alloy Steel – Superstr.” even though the actual quantities required may deviate from those listed.

6-03.5 Payment

Section 6-03.5 is supplemented with the following:

“Structural Low Alloy Steel – Substr.”, lump sum.

“Structural Low Alloy Steel – Superstr.”, lump sum.

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ITEM NO. 6: Contractor-Provided Ethernet Switch

As specified in section 8-30.3(4) **LED Accent Flood and Grazer Lights Installation**, the fourth paragraph, sentence three states:

“The City will undertake the set-up and programming of the managed Ethernet switch which shall be supplied by the Contractor.”

The Ethernet switch to be supplied by the Contractor shall be as detailed in section 8-30.2(2) – bullet number five.

Issued this 14th day of February 2020

**City of Kirkland
Department of Public Works
123 5th Avenue
Kirkland, WA 98033**

**Aaron McDonald, P.E.
425-587-3837**