




Steve  
Novick  
Commissioner

November 5, 2013

Leah Treat  
Director

## MEMORANDUM

TO: Christine Moody, Chief Procurement Officer

FROM: Steve Townsen, P.E., City Engineer 

SUBJECT: NW Thurman St: Macleay Park Bridge Rehab  
Bid No. 115943

Attached are the bid summary and bid tabulations for the above referenced project. The bid analysis did not reveal any bid errors.

The apparent low bid of \$3,190,420.75 was received from Cascade Bridge, LLC. This bid is 124% of the Engineer's Estimate of \$2,572,745.16. The apparent low bid is greater than 10% over the Engineer's Estimate. PBOT attributes this difference to the unique, complex, and exceptional type of project: historic bridge rehabilitation.

Based on the bid results and findings of Procurement staff, it is my recommendation that Cascade Bridge, LLC be declared the lowest responsible and responsive bidder and its bid be accepted.

ST:jcg

### Attachments

Copy: Kathleen Brenes-Morua  
Dan Layden  
David O'Longaigh w/attachments  
Anna Nguyen w/attachments

1120 SW Fifth Avenue, Suite 800 • Portland, OR 97204 • 503-823-5185  
FAX 503-823-7576 • TTY 503-823-6868 • [www.portlandoregon.gov/transportation](http://www.portlandoregon.gov/transportation)

Bid No: 115943														
Project Name: NW Thurman St: Macleay Park Bridge Rehab														
Date Bid Opened: 10/24/13														
Project Manager: Cameron Glasgow														
Engineers Estimate: \$2,000,000.00 - \$3,000,000.00														
Item		Est.		Spec	Cascade Bridge, LLC		Hamilton Construction Co.		Mowat Construction Company		Oregon State Bridge Construction, Inc.		Wildish Standard Paving Co.	
No	Description	Quant	Units	Reference	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended
1	TRAINING	570.00	HR	0100	\$20.00	\$11,400.00	\$20.00	\$11,400.00	\$20.00	\$11,400.00	\$20.00	\$11,400.00	\$20.00	\$11,400.00
2	MOBILIZATION	1.00	LS	0210	\$308,000.00	\$308,000.00	\$350,000.00	\$350,000.00	\$394,000.00	\$394,000.00	\$400,000.00	\$400,000.00	\$412,000.00	\$412,000.00
3	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	1.00	LS	0225	\$2,500.00	\$2,500.00	\$12,500.00	\$12,500.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$50,000.00	\$50,000.00
4	TEMPORARY SIGNS	600.00	SQFT	0225	\$13.00	\$7,800.00	\$18.00	\$10,800.00	\$17.00	\$10,200.00	\$13.00	\$7,800.00	\$20.00	\$12,000.00
5	TEMPORARY BARRICADES, TYPE III	8.00	EACH	0225	\$80.00	\$640.00	\$100.00	\$800.00	\$80.00	\$640.00	\$80.00	\$640.00	\$200.00	\$1,600.00
6	TEMPORARY PEDESTRIAN WALKWAYS	300.00	FOOT	0225	\$95.00	\$28,500.00	\$75.00	\$22,500.00	\$50.00	\$15,000.00	\$40.00	\$12,000.00	\$300.00	\$90,000.00
7	TEMPORARY PLASTIC DRUMS	12.00	EACH	0225	\$40.00	\$480.00	\$40.00	\$480.00	\$40.00	\$480.00	\$40.00	\$480.00	\$100.00	\$1,200.00
8	PORTABLE CHANGEABLE MESSAGE SIGNS	1.00	EACH	0225	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$6,000.00	\$6,000.00	\$4,500.00	\$4,500.00	\$2,000.00	\$2,000.00
9	TEMPORARY CL-6R CHAIN LINK FENCE	2,100.00	FOOT	0270	\$35.00	\$73,500.00	\$18.00	\$37,800.00	\$24.00	\$50,400.00	\$36.00	\$75,600.00	\$15.00	\$31,500.00
10	EROSION CONTROL	1.00	LS	0280	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00	\$1,000.00	\$1,000.00	\$15,000.00	\$15,000.00	\$5,500.00	\$5,500.00
11	SEDIMENT BARRIER - TYPE 3	200.00	FOOT	0280	\$7.00	\$1,400.00	\$6.00	\$1,200.00	\$3.50	\$700.00	\$3.50	\$700.00	\$10.00	\$2,000.00
12	TEMPORARY MULCHING	650.00	SQYD	0280	\$1.50	\$975.00	\$2.25	\$1,462.50	\$1.40	\$910.00	\$1.40	\$910.00	\$5.00	\$3,250.00
13	CONSTRUCTION ENTRANCES	2.00	EACH	0280	\$1,500.00	\$3,000.00	\$3,000.00	\$6,000.00	\$1,500.00	\$3,000.00	\$4,220.00	\$8,440.00	\$3,000.00	\$6,000.00
14	SEDIMENT FENCE, UNSUPPORTED	1,000.00	FOOT	0280	\$3.00	\$3,000.00	\$2.50	\$2,500.00	\$1.50	\$1,500.00	\$1.85	\$1,850.00	\$6.00	\$6,000.00
15	INLET PROTECTION	10.00	EACH	0280	\$75.00	\$750.00	\$75.00	\$750.00	\$70.00	\$700.00	\$60.00	\$600.00	\$100.00	\$1,000.00
16	POLLUTION CONTROL PLAN	1.00	LS	0290	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$500.00	\$500.00	\$3,500.00	\$3,500.00	\$100.00	\$100.00
17	WORK CONTAINMENT PLAN AND SYSTEM	1.00	LS	0290	\$5,000.00	\$5,000.00	\$175,000.00	\$175,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$160,000.00	\$160,000.00
18	CONTAMINATED SOIL DISPOSAL	1.00	LS	0291	\$15,000.00	\$15,000.00	\$2,500.00	\$2,500.00	\$2,000.00	\$2,000.00	\$4,775.00	\$4,775.00	\$1,500.00	\$1,500.00
19	TREATED WOOD DISPOSAL	1.00	LS	0291	\$3,500.00	\$3,500.00	\$2,000.00	\$2,000.00	\$20,000.00	\$20,000.00	\$1,315.00	\$1,315.00	\$25,000.00	\$25,000.00
20	CONSTRUCTION SURVEY WORK	1.00	LS	0305	\$10,000.00	\$10,000.00	\$12,000.00	\$12,000.00	\$8,000.00	\$8,000.00	\$8,500.00	\$8,500.00	\$8,000.00	\$8,000.00
21	REMOVAL OF RAILROAD TRACK AND TIES	143.00	FOOT	0310	\$90.00	\$12,870.00	\$90.00	\$12,870.00	\$46.00	\$6,578.00	\$90.00	\$12,870.00	\$10.00	\$1,430.00
22	SALVAGING AND STOCKPILING OF COBBLESTONES	85.00	SQYD	0310	\$5.00	\$425.00	\$5.00	\$425.00	\$30.00	\$2,550.00	\$30.00	\$2,550.00	\$15.00	\$1,275.00
23	REMOVAL OF STRUCTURES & OBSTRUCTIONS	1.00	LS	0310	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00	\$10,000.00	\$10,000.00	\$17,500.00	\$17,500.00	\$10,000.00	\$10,000.00
24	REMOVAL OF CONCRETE CORES	1.00	LS	0310	\$500.00	\$500.00	\$2,000.00	\$2,000.00	\$10,000.00	\$10,000.00	\$25,000.00	\$25,000.00	\$10,000.00	\$10,000.00
25	CLEARING AND GRUBBING	1.00	LS	0320	\$2,500.00	\$2,500.00	\$500.00	\$500.00	\$15,000.00	\$15,000.00	\$6,285.00	\$6,285.00	\$4,000.00	\$4,000.00
26	GENERAL EXCAVATION	82.00	CUYD	0330	\$30.00	\$2,460.00	\$50.00	\$4,100.00	\$65.00	\$5,330.00	\$14.00	\$1,148.00	\$60.00	\$4,920.00
27	EXPLORATORY EXCAVATION	21.00	CUYD	0405	\$50.00	\$1,050.00	\$50.00	\$1,050.00	\$50.00	\$1,050.00	\$20.00	\$420.00	\$125.00	\$2,625.00
28	TRENCH EXCAVATION, COMMON	61.00	CUYD	0405	\$40.00	\$2,440.00	\$40.00	\$2,440.00	\$5.00	\$305.00	\$40.00	\$2,440.00	\$20.00	\$1,220.00
29	TRENCH BACKFILL, CLASS B	30.00	CUYD	0405	\$40.00	\$1,200.00	\$40.00	\$1,200.00	\$35.00	\$1,050.00	\$40.00	\$1,200.00	\$30.00	\$900.00
30	WATER PIPE ZONE BEDDING AND BACKFILL	23.00	CUYD	0405	\$40.00	\$920.00	\$40.00	\$920.00	\$35.00	\$805.00	\$40.00	\$920.00	\$30.00	\$690.00
31	TEMPORARY TRENCH RESURFACING	63.00	SQYD	0495	\$10.00	\$630.00	\$60.00	\$3,780.00	\$60.00	\$3,780.00	\$210.00	\$13,230.00	\$200.00	\$12,600.00
32	BRIDGE REMOVAL WORK	1.00	LS	0501	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$300,000.00	\$300,000.00	\$310,000.00	\$310,000.00	\$283,000.00	\$283,000.00
33	SHORING, CRIBBING AND COFFERDAMS	1.00	LS	0510	\$500.00	\$500.00	\$2,500.00	\$2,500.00	\$500.00	\$500.00	\$20,000.00	\$20,000.00	\$5,000.00	\$5,000.00
34	STRUCTURE EXCAVATION	1.00	LS	0510	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$900.00	\$900.00	\$2,600.00	\$2,600.00	\$5,000.00	\$5,000.00
35	STRUCTURE EXCAVATION BELOW ELEVATIONS SHOWN	1.00	LS	0510	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$100.00	\$100.00	\$2,450.00	\$2,450.00	\$1,000.00	\$1,000.00
36	GRANULAR WALL BACKFILL	1.00	LS	0510	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00	\$810.00	\$810.00	\$2,150.00	\$2,150.00	\$4,000.00	\$4,000.00
37	GRANULAR STRUCTURE BACKFILL	1.00	LS	0510	\$1,800.00	\$1,800.00	\$2,500.00	\$2,500.00	\$780.00	\$780.00	\$3,175.00	\$3,175.00	\$5,000.00	\$5,000.00
38	REINFORCEMENT	1.00	LS*	0530	\$4,000.00	\$4,000.00	\$7,000.00	\$7,000.00	\$12,000.00	\$12,000.00	\$4,000.00	\$4,000.00	\$15,000.00	\$15,000.00
39	GENERAL STRUCTURAL CONCRETE, CLASS 3300	1.00	LS	0540	\$55,000.00	\$55,000.00	\$25,000.00	\$25,000.00	\$30,000.00	\$30,000.00	\$45,500.00	\$45,500.00	\$70,000.00	\$70,000.00
40	REINFORCED CONCRETE BRIDGE END PANELS	149.00	SQYD	0545	\$185.00	\$27,565.00	\$165.00	\$24,585.00	\$160.00	\$23,840.00	\$235.00	\$35,015.00	\$300.00	\$44,700.00
41	MODIFIED STEEL ROLLED BEAM - FLOOR BEAMS	1.00	LS	0560	\$250,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$310,000.00	\$310,000.00	\$265,000.00	\$265,000.00	\$270,000.00	\$270,000.00
42	STEEL ROLLED BEAM - ROADWAY STRINGERS	1.00	LS	0560	\$290,000.00	\$290,000.00	\$375,000.00	\$375,000.00	\$465,000.00	\$465,000.00	\$380,000.00	\$380,000.00	\$400,000.00	\$400,000.00
43	STEEL ROLLED BEAM - SIDEWALK STRINGERS	1.00	LS	0560	\$185,000.00	\$185,000.00	\$200,000.00	\$200,000.00	\$250,000.00	\$250,000.00	\$205,000.00	\$205,000.00	\$215,000.00	\$215,000.00
44	STEEL ROLLED BEAM - DIAPHRAGMS AND BRACING	1.00	LS	0560	\$140,000.00	\$140,000.00	\$175,000.00	\$175,000.00	\$200,000.00	\$200,000.00	\$130,000.00	\$130,000.00	\$160,000.00	\$160,000.00
45	FABRICATED STEEL CURB ANGLE	1.00	LS	0560	\$115,000.00	\$115,000.00	\$125,000.00	\$125,000.00	\$130,000.00	\$130,000.00	\$115,000.00	\$115,000.00	\$140,000.00	\$140,000.00
46	ASPHALTIC PLUG JOINT SEALS	1.00	LS	0585	\$7,000.00	\$7,000.00	\$7,000.00	\$7,000.00	\$5,000.00	\$5,000.00	\$7,725.00	\$7,725.00	\$12,000.00	\$12,000.00
47	BRIDGE TRAFFIC RAIL	1.00	LS	0587	\$140,000.00	\$140,000.00	\$145,000.00	\$145,000.00	\$190,000.00	\$190,000.00	\$157,000.00	\$157,000.00	\$150,000.00	\$150,000.00
48	BRIDGE PEDESTRIAN RAIL	1.00	LS	0587	\$200,000.00	\$200,000.00	\$180,000.00	\$180,000.00	\$225,000.00	\$225,000.00	\$205,000.00	\$205,000.00	\$220,000.00	\$220,000.00
49	SIDEWALK SURFACE - ALUMINUM PLANKS	1.00	LS	0588	\$210,000.00	\$210,000.00	\$200,000.00	\$200,000.00	\$215,000.00	\$215,000.00	\$230,000.00	\$230,000.00	\$250,000.00	\$250,000.00
50	CORRUGATED STEEL DECK PLANK	1.00	LS	0590	\$350,000.00	\$350,000.00	\$375,000.00	\$375,000.00	\$380,000.00	\$380,000.00	\$325,000.00	\$325,000.00	\$365,000.00	\$365,000.00
51	REHABILITATING COATED STEEL STRUCTURES	1.00	LS	0594	\$115,000.00	\$115,000.00	\$142,500.00	\$142,500.00	\$125,000.00	\$125,000.00	\$418,000.00	\$418,000.00	\$225,000.00	\$225,000.00
52	SPOT PAINTING - MAJOR	20.00	EACH	0594	\$500.00	\$10,000.00	\$500.00	\$10,000.00	\$300.00	\$6,000.00	\$500.00	\$10,000.00	\$1,400.00	\$28,000.00
53	SPOT PAINTING - MINOR	30.00	EACH	0594	\$400.00	\$12,000.00	\$400.00	\$12,000.00	\$80.00	\$2,400.00	\$500.00	\$15,000.00	\$1,200.00	\$36,000.00
54	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	500.00	SQYD	0620	\$10.00	\$5,000.00	\$6.90	\$3,450.00	\$6.00	\$3,000.00	\$12.00	\$6,000.00	\$12.00	\$6,000.00

Bid No: 115943															
Project Name: NW Thurman St: Macleay Park Bridge Rehab															
Date Bid Opened: 10/24/13															
Project Manager: Cameron Glasgow															
Engineers Estimate: \$2,000,000.00 - \$3,000,000.00															
Item		Est.		Spec	Cascade Bridge, LLC		Hamilton Construction Co.		Mowat Construction Company		Oregon State Bridge Construction, Inc.		Wildish Standard Paving Co.		
No	Description	Quant	Units	Reference	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	Unit Price	Extended	
55	AGGREGATE BASE	21.00	CUYD	0640	\$55.00	\$1,155.00	\$75.00	\$1,575.00	\$90.00	\$1,890.00	\$56.00	\$1,176.00	\$130.00	\$2,730.00	
56	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	212.00	TON	0744	\$75.00	\$15,900.00	\$73.00	\$15,476.00	\$73.00	\$15,476.00	\$85.00	\$18,020.00	\$70.00	\$14,840.00	
57	LEVEL 3, 3/8 INCH DENSE, MWMAC MIXTURE, IN LEVELING	122.50	TON	0744	\$90.00	\$11,025.00	\$88.50	\$10,841.25	\$88.50	\$10,841.25	\$100.00	\$12,250.00	\$85.00	\$10,412.50	
58	12 INCH ASPHALT CONCRETE PAVEMENT REPAIR	5.00	SQYD	0748	\$200.00	\$1,000.00	\$700.00	\$3,500.00	\$190.00	\$950.00	\$150.00	\$750.00	\$400.00	\$2,000.00	
59	CONCRETE CURBS, STANDARD CURB	42.25	FOOT	0759	\$55.00	\$2,323.75	\$36.50	\$1,542.13	\$28.00	\$1,183.00	\$50.00	\$2,112.50	\$70.00	\$2,957.50	
60	CONCRETE DRIVEWAYS	188.50	SQFT	0759	\$20.00	\$3,770.00	\$18.00	\$3,393.00	\$9.00	\$1,696.50	\$17.00	\$3,204.50	\$25.00	\$4,712.50	
61	CONCRETE WALKS	65.20	SQFT	0759	\$65.00	\$4,238.00	\$18.00	\$1,173.60	\$10.00	\$652.00	\$59.25	\$3,863.10	\$40.00	\$2,608.00	
62	MONOLITHIC CURB AND SIDEWALKS	214.20	SQFT	0759	\$25.00	\$5,355.00	\$25.00	\$5,355.00	\$15.00	\$3,213.00	\$26.00	\$5,569.20	\$32.00	\$6,854.40	
63	REMOVABLE BOLLARDS	2.00	EACH	0815	\$250.00	\$500.00	\$1,200.00	\$2,400.00	\$1,200.00	\$2,400.00	\$250.00	\$500.00	\$1,300.00	\$2,600.00	
64	NON-REMOVABLE BOLLARDS	12.00	EACH	0815	\$800.00	\$9,600.00	\$500.00	\$6,000.00	\$500.00	\$6,000.00	\$792.00	\$9,504.00	\$650.00	\$7,800.00	
65	LONGITUDINAL PAVEMENT MARKINGS - PAINT	1,100.00	FOOT	0860	\$0.90	\$990.00	\$0.65	\$715.00	\$0.85	\$935.00	\$2.75	\$3,025.00	\$1.00	\$1,100.00	
66	REMOVE EXISTING SIGNS	1.00	LS*	0905	\$105.00	\$105.00	\$450.00	\$450.00	\$150.00	\$150.00	\$150.00	\$150.00	\$500.00	\$500.00	
67	REMOVE & REINSTALL EXISTING SIGNS	1.00	LS*	0905	\$200.00	\$200.00	\$800.00	\$800.00	\$200.00	\$200.00	\$200.00	\$200.00	\$1,000.00	\$1,000.00	
68	SIGN SUPPORT FOOTINGS, BREAKAWAY	1.00	LS*	0920	\$400.00	\$400.00	\$1,500.00	\$1,500.00	\$350.00	\$350.00	\$350.00	\$350.00	\$3,300.00	\$3,300.00	
69	PIPE SIGN SUPPORTS	1.00	LS*	0930	\$2,000.00	\$2,000.00	\$1,850.00	\$1,850.00	\$2,000.00	\$2,000.00	\$1,950.00	\$1,950.00	\$3,300.00	\$3,300.00	
70	TYPE "W12" SIGNS IN PLACE	3.00	SQFT	0940	\$55.00	\$165.00	\$45.00	\$135.00	\$52.00	\$156.00	\$55.00	\$165.00	\$50.00	\$150.00	
71	PERMANENT SEEDING, TYPE 1	1.00	LS	1030	\$5,000.00	\$5,000.00	\$4,850.00	\$4,850.00	\$5,000.00	\$5,000.00	\$6,250.00	\$6,250.00	\$5,000.00	\$5,000.00	
72	BARK MULCH	7.00	CUYD	1040	\$60.00	\$420.00	\$60.00	\$420.00	\$60.00	\$420.00	\$60.00	\$420.00	\$50.00	\$350.00	
73	MODIFIED CL-4R CHAIN-LINK FENCE WITH BLACK VINYL CLAD FABRIC	25.00	FOOT	1050	\$70.00	\$1,750.00	\$70.00	\$1,750.00	\$50.00	\$1,250.00	\$69.00	\$1,725.00	\$60.00	\$1,500.00	
74	REMOVE EXISTING 12 INCH STEEL WATERLINE FROM BRIDGE	1.00	LS	1140	\$1,500.00	\$1,500.00	\$8,500.00	\$8,500.00	\$3,000.00	\$3,000.00	\$25,000.00	\$25,000.00	\$20,000.00	\$20,000.00	
75	8 INCH TEMPORARY WATERLINE	1.00	LS	1140	\$75,000.00	\$75,000.00	\$72,000.00	\$72,000.00	\$135,000.00	\$135,000.00	\$101,000.00	\$101,000.00	\$65,000.00	\$65,000.00	
76	DOMESTIC WATER CASING	54.00	FT	1140	\$905.00	\$48,870.00	\$900.00	\$48,600.00	\$500.00	\$27,000.00	\$900.00	\$48,600.00	\$425.00	\$22,950.00	
77	12-INCH STEEL PIPE RESTRAINED	31.00	FT	1140	\$605.00	\$18,755.00	\$600.00	\$18,600.00	\$700.00	\$21,700.00	\$600.00	\$18,600.00	\$80.00	\$2,480.00	
78	12-INCH DUCTILE IRON PIPE RESTRAINED	464.00	FT	1140	\$196.00	\$90,944.00	\$195.00	\$90,480.00	\$240.00	\$111,360.00	\$195.00	\$90,480.00	\$175.00	\$81,200.00	
79	PIPE HANGERS AND SUPPPORTS	1.00	LS	1140	\$37,000.00	\$37,000.00	\$35,000.00	\$35,000.00	\$30,000.00	\$30,000.00	\$24,000.00	\$24,000.00	\$35,000.00	\$35,000.00	
80	12-INCH GATE VALVES, MJ	2.00	EACH	1150	\$2,900.00	\$5,800.00	\$1,500.00	\$3,000.00	\$3,000.00	\$6,000.00	\$2,800.00	\$5,600.00	\$3,000.00	\$6,000.00	
81	2 INCH AIR RELEASE AND BLOWOFF ASSEMBLY	4.00	EACH	1150	\$1,400.00	\$5,600.00	\$1,300.00	\$5,200.00	\$1,800.00	\$7,200.00	\$1,300.00	\$5,200.00	\$1,500.00	\$6,000.00	
82	BACKSIDE SERVICE CONNECTION	1.00	EACH	1170	\$3,000.00	\$3,000.00	\$900.00	\$900.00	\$900.00	\$900.00	\$2,900.00	\$2,900.00	\$20,000.00	\$20,000.00	
83	1 INCH CORP STOP	1.00	EACH	1170	\$250.00	\$250.00	\$500.00	\$500.00	\$500.00	\$500.00	\$225.00	\$225.00	\$200.00	\$200.00	
	Total					\$3,190,420.75		\$3,503,018.48		\$3,970,630.75		\$4,042,977.30		\$4,121,954.90	
	Bid Surety					Yes BB		Yes BB		Yes BB		Yes BB		Yes BB	
	Contractor Board License No.					146928		13877		167954		180779		63256	