



SENT VIA EMAIL

**AMENDMENT No. Three (3) to
Contract No. 3 0 0 0 6 8 2 6
FOR**

NE 42nd Avenue over Lombard Street Bridge Design

This Amendment No. Three (3) amends Contract No. 30006826 dated 1st day of April, 2019, by and between David Evans & Associates, Inc. (Consultant) a corporation of the State of Oregon, and the City of Portland, a municipal corporation of the State of Oregon ("City") by and through their duly authorized representatives. This Amendment may refer to Consultant and City individually as a "Party" or collectively as the "Parties."

The Effective Date of this Amendment is June 15, 2022. The purpose of this Amendment is to add scope of work and additional funds to the contract per Exhibits A and B, attached hereto.

The Contract was previously amended as follows:

Amendment 1, dated 9/18/2019, which added a subconsultant labor classification.

Amendment 2, dated 11/24/2020, which increased the prior not-to-exceed amount of the Contract from \$2,009,884.47 by \$50,137.56 to a new total not-to-exceed amount of \$2,060,022.03, and which amended the Scope of Work.

The Parties agree to Amend the Contract as follows:

1. The Contract not-to-exceed amount of \$2,060,022.03 is increased by \$2,368,989.94 to a new total not-to-exceed amount of \$4,429,011.97 per Exhibit A. The Scope of Work for this project is hereby amended per Exhibit B.
2. The Term is extended from 12/31/2021 to 5/30/2024, unless terminated sooner under the provisions of the Contract.

All other terms and conditions of the Contract remain unchanged by this Amendment and in full force and effect.

This Amendment may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same instrument. The Parties agree that they may execute this Amendment by electronic means, including the use of electronic signatures.

IN WITNESS WHEREOF, the Parties hereby cause this Amendment to be executed.

Contract Number: 30006826

Amendment Number: 3

Contract Title: 42nd Avenue over Lombard Street Bridge Design

David Evans & Associates, Inc. (Consultant)

Authorized Signature

Date

Printed Name and Title

Address: 530 Center Street NE, Suite 605

Salem, Oregon 97301

Phone: 503-408-1309

Prepared by Cary Watters and Kapua Foster

Sent to Doug Johnson via email at
DMJ@DEAInc.com

Contract Number: 30006826

Amendment Number: 3

Contract Title: 42nd Avenue over Lombard Street Bridge Design

CITY OF PORTLAND SIGNATURES

By: _____ Date: _____
Chief Procurement Officer

By: _____ Date: _____
Elected Official

Approved:

By: _____ Date: _____
Office of City Auditor

Approved as to Form:

By: _____ Date: _____
Office of City Attorney

EXHIBIT A**Summary Breakdown of Costs****0****Amendment No. 3****PROJECT NAME: NE 42nd Ave Bridge Replacement**

Total Non-Contingency Hours	16310
Total Non-Contingency Labor Costs	\$ 2,185,564.34
Total Non-Contingency Direct Expenses	\$ 24,600.00
Total Non-Contingency Costs	\$ 2,210,164.34
Total Non-Contingency Profit	\$ 158,825.60
Total Non-Contingency Cost + Profit	\$ 2,368,989.94

Total Contingency Hours	0
Total Contingency Labor Costs	\$ -
Total Contingency Direct Expenses	\$ -
Total Contingency Costs	\$ -
Total Contingency Profit	\$ -
Total Contingency Cost + Profit	\$ -

Total Non-Contingency + Contingency \$ 2,368,989.94

Breakdown of Costs - Dated: 07/29/2022

	MULTIPLIERS			
	% of budget in Current Year (C)	20.00%	Accepted Overhead	177.45%
Amendment No. 3	% of budget in CY+1	50.00%	FCCM	0.17%
PROJECT NAME: NE 42nd Ave Bridge Replacement	% of budget in CY+2	30.00%	Negotiated Profit	10.50%
	% of budget in CY+3	0.00%	Annual Escalation Rate	3.50%
	Weighted Escalation Factor	1.039		

David Evans and Associates, Inc.

Job Classifications (Individuals' names are optional)		DATA ENTRY SECTION																													
		Project Manager III	Project Manager IV	Transportation Traffic/ Engineer II	Transportation/ Traffic Engineer IV	Bridge/ Structural Engineer III	Bridge/ Structural Engineer I	Bridge/ Structural Engineer III	Designer IV	CADD Technician II	Transportation/ Traffic Engineer III	Transportation/ Traffic Engineer II	Designer II	Transportation/Traffic Engineer II	CADD Technician II	Designer III	Project Manager IV	Hydraulic Engineer II	Designer II	Survey Technician III	Project Surveyor IV	Survey Technician I	Survey Technician III	Project Assistant IV	Construction Service Manager II	QA/QC Specialist I	Construction Inspector IV	QA/QC Specialist III	Party Chief IV	Field Survey Tech IV	Project Surveyor III
		PSCR	DMJ	STL	TCST	AMST	TBL	GAP	JXC	DJAL	AXKU	BEHE	RTM U	BACA	RJXM	CMW	JRM C	ASR	DKW R	DEM	SCW	MXB	JJG	ETNA	EABO	HLB	JJVA	Kelly A.	DWB	MXB	DAFE
Direct Salary Rate (Avg, Actual, Max) Current Year		\$70.93	\$89.13	\$54.56	\$84.57	\$70.71	\$42.27	\$70.71	\$50.23	\$43.10	\$65.42	\$54.56	\$40.32	\$43.20	\$43.10	\$45.28	\$74.00	\$58.50	\$40.32	\$38.19	\$60.56	\$30.55	\$38.19	\$43.65	\$50.70	\$28.34	\$43.76	\$43.00	\$39.00	\$33.70	\$48.00
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)		\$73.69	\$92.59	\$56.68	\$87.86	\$73.46	\$43.91	\$73.46	\$52.18	\$44.78	\$67.96	\$56.68	\$41.89	\$44.88	\$44.78	\$47.04	\$76.88	\$60.77	\$41.89	\$39.67	\$62.91	\$31.74	\$39.67	\$45.35	\$52.67	\$29.44	\$45.46	\$44.67	\$40.52	\$35.01	\$49.87
Task #	Fully Burdened Billing Rate	\$226.04	\$284.03	\$173.87	\$269.50	\$225.34	\$134.70	\$225.34	\$160.07	\$137.35	\$208.48	\$173.87	\$128.49	\$137.67	\$137.35	\$144.30	\$235.82	\$186.42	\$128.49	\$121.70	\$192.99	\$97.36	\$121.70	\$139.10	\$161.57	\$90.31	\$139.45	\$137.03	\$124.28	\$107.39	\$152.96
NON-CONTINGENCY TASKS/DELIVERABLES																															
1	PROJECT MANAGEMENT AND ADMINISTRATION	0	77	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	
1.1	Project Coordination		63	63																											
1.2	Project Schedule and Work Plan		4																												
1.3	Monthly Invoices and Progress Reports		10																				32								
2	MEETINGS	0	7	12	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.5	Utility Coordination Meetings - 7 additional meetings		7	12											12																
3	ADVANCED CONCEPT ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	SURVEYING AND MAPPING	0	0	2	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	48	58	54	11	0	0	0	0	0	0	0	0
4.1	Survey Data Research																			40		5									
4.2	Additional ROW parcel			2								3	3							6	6										
4.6	Utility Pothole Locates																			16	4	16	4								
4.7	ROW Staking																		32	8	32	2									
5	HAZARDOUS MATERIALS ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	GEOTECHNICAL ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	PRELIMINARY ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	FINAL ENGINEERING (60%, 90%, 100%, AND FINAL PS&E)	0	28	59	9	0	27	0	0	27	62	132	180	0	119	0	0	1	0	8	4	8	4	17	0	0	0	0	0	0	0
8.6	Final Engineering (Additional Scope)																														
8.6.1	Street Design		3	22	7						47	69	110		78									1							
8.6.2	Bridge Design		5				27			27																					
8.6.3	Retaining Wall Design																														
8.6.4	Stormwater Design																														
8.6.5	Update for 2020 City of Portland Std. Construction Specs		16	12																				16							
8.6.6	Intersection Design Vehicle Assumption Reports			5								40	40		20																
8.6.7	95% PS&E Submittal		2	4							2	4						1													
8.6.8	Existing Sewer Relocation																														
8.6.9	42nd & Holman Survey/Design		1	8	2						13	19	30		21					8	4	8	4								
8.6.10	BES Planting Coordination		1	8																											
9	ENVIRONMENTAL COORDINATION AND PERMITTING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	UTILITY COORDINATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	RAILROAD COORDINATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	TRAFFIC ENGINEERING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	LOMBARD ODOT DESIGN	0	10	90	12	0	0	0	0	0	0	100	76	172	130	0	6	53	84	10	7	8	0	0	0	0	0	0	0	0	0
13.1	Preliminary Investigations & Coordination		4	40								16	16	20	8			5		2	1										
13.2	Project Management		6	50								6		6																	
13.3	Roadway Design				10							40	60	80	60																
13.4	Design Exceptions											30		50	10																
13.5	Drainage Design														28		6	48	84												
13.6	Traffic Design																														
13.7	Erosion Control Design				2							8		16	24																
13.8	Survey																			8	6	8									
14	CONSTRUCTION PROJECT MANAGEMENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	342	228	84	0	0	0	0
14.1	Project Coordination																								234	156					
14.2	Monthly Invoices and Progress Reports																								24	72					
14.3	Construction Meetings																								84		84				
15	CONSTRUCTION SUPPORT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3036	0	3036	0	0	0	0
15.1	Construction Manager																								2956						
15.2	Construction Inspection																										2976				

Breakdown of Costs - Dated: 07/29/2022

Breakdown of Costs - Dated: 07/29/2022		MULTIPLIERS		
Amendment No. 3	% of budget in Current Year (CY)	20.00%	Accepted Overhead	177.45%
PROJECT NAME: NE 42nd Ave Bridge Replacement	% of budget in CY+1	50.00%	FCCM	0.17%
	% of budget in CY+2	30.00%	Negotiated Profit	10.50%
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David Evans and Associates, Inc.

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		PSCR	DMJ	STL	TCST	AMST	TBL	GAP	JXC	DJAL	AXKU	BEHE	RTM U	BACA	RJXM	CMW	JRM C	ASR	DKW R	DEM	SCW	MXB	JJG	ETNA	EABO	HLB	JJA	Kelly A.	DWB	MXB	DAFE
Direct Salary Rate (Avg, Actual, Max) Current Year		\$70.93	\$89.13	\$54.56	\$84.57	\$70.71	\$42.27	\$70.71	\$50.23	\$43.10	\$65.42	\$54.56	\$40.32	\$43.20	\$43.10	\$45.28	\$74.00	\$58.50	\$40.32	\$38.19	\$60.56	\$30.55	\$38.19	\$43.65	\$50.70	\$28.34	\$43.76	\$43.00	\$39.00	\$33.70	\$48.00
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)		\$73.69	\$92.59	\$56.68	\$87.86	\$73.46	\$43.91	\$73.46	\$52.18	\$44.78	\$67.96	\$56.68	\$41.89	\$44.88	\$44.78	\$47.04	\$76.88	\$60.77	\$41.89	\$39.67	\$62.91	\$31.74	\$39.67	\$45.35	\$52.67	\$29.44	\$45.46	\$44.67	\$40.52	\$35.01	\$49.87
Task #	Fully Burdened Billing Rate	\$226.04	\$284.03	\$173.87	\$269.50	\$225.34	\$134.70	\$225.34	\$160.07	\$137.35	\$208.48	\$173.87	\$128.49	\$137.67	\$137.35	\$144.30	\$235.82	\$186.42	\$128.49	\$121.70	\$192.99	\$97.36	\$121.70	\$139.10	\$161.57	\$90.31	\$139.45	\$137.03	\$124.28	\$107.39	\$152.96
NON-CONTINGENCY TASKS/DELIVERABLES																															
15.3	Construction Administration																														
15.4	Punch List / Close-Out																								40		40				
15.5	Dispute/Claim Resolution																								40		20				
16	QUALITY COMPLIANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1560	0	0	0
16.1	Quality Compliance																											1560			
17	CONSTRUCTION SURVEY QUALITY ASSURANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172	172	174
17.1	Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work																												116	116	56
17.2	Locate, Recover and Reference Monuments																												24	24	24
17.3	Right of Way ("ROW") Monumentation																												24	24	24
17.4	Monumentation Survey Filing Map (SFM)																												8	8	70
TOTAL Non-Contingency		0	122	226	21	0	27	0	0	27	62	235	259	172	249	12	6	54	84	66	69	70	15	49	3378	228	3120	1560	172	172	174
CONTINGENCY TASKS/DELIVERABLES																															
TOTAL Contingency		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL Non-Contingency + Contingency		0	122	226	21	0	27	0	0	27	62	235	259	172	249	12	6	54	84	66	69	70	15	49	3378	228	3120	1560	172	172	174

Breakdown of Costs - Dated: 07/29/2022

Amendment No. 3
PROJECT NAME: NE 42nd Ave Bridge Replacement

Job Classifications (Individuals' names are optional)										Certification:		Not Certified	
							CALCULATION SECTION						
		Project Manager IV	Project Surveyor II	Survey Analyst I	Project Manger I	Survey Analyst III	Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit
Direct Salary Rate (Avg, Actual, Max) Current Year		\$81.00	\$44.00	\$34.50	\$45.00	\$44.08							
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)		\$84.15	\$45.71	\$35.84	\$46.75	\$45.79							
Fully Burdened Billing Rate		\$258.13	\$140.22	\$109.94	\$143.40	\$140.47			177.45%	0.17%			10.50%
NON-CONTINGENCY TASKS/DELIVERABLES													
1	PROJECT MANAGEMENT AND ADMINISTRATION	0	0	0	0	0	172	\$ 12,152	\$ 21,563	\$ 21	\$ -	\$ 33,735.62	\$ 3,540.07
1.1	Project Coordination						126	\$ 9,404	\$ 16,688	\$ 16	\$ -	\$ 26,108.26	\$ 2,739.69
1.2	Project Schedule and Work Plan						4	\$ 370	\$ 657	\$ 1		\$ 1,028.24	\$ 107.90
1.3	Monthly Invoices and Progress Reports						42	\$ 2,377	\$ 4,218	\$ 4		\$ 6,599.12	\$ 692.48
2	MEETINGS	0	0	0	0	0	31	\$ 1,893	\$ 3,359	\$ 3	\$ -	\$ 5,254.81	\$ 551.42
2.5	Utility Coordination Meetings - 7 additional meetings						31	\$ 1,893	\$ 3,359	\$ 3	\$ -	\$ 5,254.81	\$ 551.42
3	ADVANCED CONCEPT ENGINEERING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	SURVEYING AND MAPPING	0	0	0	0	0	179	\$ 8,113	\$ 14,396	\$ 14	\$ 800.00	\$ 23,322.40	\$ 2,363.40
4.1	Survey Data Research						45	\$ 2,715	\$ 4,818	\$ 5		\$ 7,537.17	\$ 790.92
4.2	Additional ROW parcel						20	\$ 977	\$ 1,734	\$ 2		\$ 2,712.27	\$ 284.61
4.6	Utility Pothole Locates						40	\$ 1,553	\$ 2,756	\$ 3	\$ 800.00	\$ 5,111.27	\$ 452.41
4.7	ROW Staking						74	\$ 2,868	\$ 5,089	\$ 5		\$ 7,961.68	\$ 835.46
5	HAZARDOUS MATERIALS ENGINEERING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	GEOTECHNICAL ENGINEERING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	PRELIMINARY ENGINEERING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	FINAL ENGINEERING (60%, 90%, 100%, AND FINAL PS&E)	0	0	0	0	0	685	\$ 35,499	\$ 62,993	\$ 60	\$ -	\$ 98,551.94	\$ 10,341.62
8.6	Final Engineering (Additional Scope)						0	\$ -	\$ -	\$ -		\$ -	\$ -
8.6.1	Street Design						337	\$ 17,390	\$ 30,859	\$ 30		\$ 48,279.12	\$ 5,066.20
8.6.2	Bridge Design						59	\$ 2,858	\$ 5,071	\$ 5		\$ 7,933.13	\$ 832.47
8.6.3	Retaining Wall Design						0	\$ -	\$ -	\$ -		\$ -	\$ -
8.6.4	Stormwater Design						0	\$ -	\$ -	\$ -		\$ -	\$ -
8.6.5	Update for 2020 City of Portland Std. Construction Specs						44	\$ 2,887	\$ 5,123	\$ 5		\$ 8,015.50	\$ 841.11
8.6.6	Intersection Design Vehicle Assumption Reports						105	\$ 5,122	\$ 9,088	\$ 9		\$ 14,218.63	\$ 1,492.04
8.6.7	95% PS&E Submittal						13	\$ 835	\$ 1,482	\$ 1		\$ 2,319.05	\$ 243.35
8.6.8	Existing Sewer Relocation						0	\$ -	\$ -	\$ -		\$ -	\$ -
8.6.9	42nd & Holman Survey/Design						118	\$ 5,861	\$ 10,400	\$ 10		\$ 16,270.59	\$ 1,707.37
8.6.10	BES Planting Coordination						9	\$ 546	\$ 969	\$ 1		\$ 1,515.91	\$ 159.07
9	ENVIRONMENTAL COORDINATION AND PERMITTING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	UTILITY COORDINATION	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	RAILROAD COORDINATION	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	TRAFFIC ENGINEERING	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	LOMBARD ODOT DESIGN	0	0	0	0	0	758	\$ 37,765	\$ 67,014	\$ 64	\$ 50.00	\$ 104,892.54	\$ 11,001.73
13.1	Preliminary Investigations & Coordination						112	\$ 5,917	\$ 10,499	\$ 10		\$ 16,425.66	\$ 1,723.64
13.2	Project Management						68	\$ 3,999	\$ 7,096	\$ 7		\$ 11,101.90	\$ 1,164.99
13.3	Roadway Design						250	\$ 11,936	\$ 21,180	\$ 20		\$ 33,136.34	\$ 3,477.18
13.4	Design Exceptions						90	\$ 4,392	\$ 7,794	\$ 7		\$ 12,193.41	\$ 1,279.52
13.5	Drainage Design						166	\$ 8,151	\$ 14,463	\$ 14		\$ 22,627.76	\$ 2,374.46
13.6	Traffic Design						0	\$ -	\$ -	\$ -		\$ -	\$ -
13.7	Erosion Control Design						50	\$ 2,422	\$ 4,298	\$ 4		\$ 6,723.48	\$ 705.53
13.8	Survey						22	\$ 949	\$ 1,684	\$ 2	\$ 50.00	\$ 2,683.99	\$ 276.40
14	CONSTRUCTION PROJECT MANAGEMENT	0	0	0	0	0	654	\$ 28,545	\$ 50,653	\$ 49	\$ -	\$ 79,245.83	\$ 8,315.72
14.1	Project Coordination						390	\$ 16,918	\$ 30,021	\$ 29		\$ 46,967.17	\$ 4,928.53
14.2	Monthly Invoices and Progress Reports						96	\$ 3,384	\$ 6,005	\$ 6		\$ 9,394.33	\$ 985.80
14.3	Construction Meetings						168	\$ 8,243	\$ 14,627	\$ 14		\$ 22,884.33	\$ 2,401.38
15	CONSTRUCTION SUPPORT	0	0	0	0	0	6072	\$ 297,927	\$ 528,671	\$ 506	\$ 7,800.00	\$ 834,904.95	\$ 86,792.84
15.1	Construction Manager						2956	\$ 155,694	\$ 276,279	\$ 265	\$ 2,925.00	\$ 435,163.35	\$ 45,357.24
15.2	Construction Inspection						2976	\$ 135,291	\$ 240,075	\$ 230	\$ 4,875.00	\$ 380,471.17	\$ 39,413.45

MULTIPLIERS														
% of budget in Current Year (CY)			0.00%		Accepted Overhead								% of budget	
% of budget in CY+1			100.00%		FCCM								% of budget	
% of budget in CY+2			0.00%		Negotiated Profit								% of budget	
% of budget in CY+3			0.00%		Annual Es								% of budget	
Weighted Escalation Factor			1.030										Weighted Es	
Global Transportation Engineering										Certification:		DBE		NGI
DATA ENTRY SECTION					CALCULATION SECTION									
Principal/ Project Manager 4 (Dana Beckwith)	Senior Project Engineer 5 (Monica Leal)	Sr Engineering Associate 4 (Robert Spierling)	Engineering Associate 1 (Phoebe Kuo)	Tech XIV (Rick Harkins)	Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	Senior Engineer/ Geologist		
\$140.00	\$140.00	\$120.00	\$75.00	\$95.00										
\$144.20	\$144.20	\$123.60	\$77.25	\$97.85										
\$144.20	\$144.20	\$123.60	\$77.25	\$97.85			0.00%	0.00%			0.00%	\$197.00		
												\$197.00		
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0		
					0	\$ -	\$ -	\$ -		\$ -	\$ -			
					0	\$ -	\$ -	\$ -		\$ -	\$ -			
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29	4	0	48	20	101	\$ 10,424	\$ -	\$ -	\$ 100.00	\$ 10,523.60	\$ -	0		
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29	4		48	20	101	\$ 10,424	\$ -	\$ -	\$ 100.00	\$ 10,523.60	\$ -			
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Breakdown of Costs - Dated: 07/29/2022

Amendment No. 3
PROJECT NAME: NE 42nd Ave Bridge Replacement

Job Classifications (Individuals' names are optional)											Certification:		Not Certified				
							CALCULATION SECTION										
		Project Manager IV	Project Surveyor II	Survey Analyst I	Project Manager I	Survey Analyst III	Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit				
														PMG	KLY	TYMI	LUG
		Direct Salary Rate (Avg, Actual, Max) Current Year	\$81.00	\$44.00	\$34.50	\$45.00	\$44.08										
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)	\$84.15	\$45.71	\$35.84	\$46.75	\$45.79												
Fully Burdened Billing Rate	\$258.13	\$140.22	\$109.94	\$143.40	\$140.47			177.45%	0.17%			10.50%					
NON-CONTINGENCY TASKS/DELIVERABLES																	
15.3	Construction Administration						0	\$ -	\$ -	\$ -		\$ -	\$ -				
15.4	Punch List / Close-Out						80	\$ 3,925	\$ 6,965	\$ 7		\$ 10,897.30	\$ 1,143.52				
15.5	Dispute/Claim Resolution						60	\$ 3,016	\$ 5,352	\$ 5		\$ 8,373.13	\$ 878.64				
16	QUALITY COMPLIANCE					0	0	0	0	0	1560	\$ 69,687	\$ 123,660	\$ 118	\$ -	\$ 193,465.69	\$ 20,301.46
16.1	Quality Compliance						1560	\$ 69,687	\$ 123,660	\$ 118	\$ -	\$ 193,465.69	\$ 20,301.46				
17	CONSTRUCTION SURVEY QUALITY ASSURANCE					22	18	80	18	122	778	\$ 33,637	\$ 59,688	\$ 57	\$ 10,000.00	\$ 103,381.98	\$ 9,799.10
17.1	Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work					14	14	56	12		384	\$ 15,940	\$ 28,285	\$ 27	\$ 6,500.00	\$ 50,751.38	\$ 4,643.55
17.2	Locate, Recover and Reference Monuments					2	2	8	2	16	102	\$ 4,382	\$ 7,776	\$ 7	\$ 1,000.00	\$ 13,165.38	\$ 1,276.58
17.3	Right of Way ("ROW") Monumentation					2	2	8	2	16	102	\$ 4,382	\$ 7,776	\$ 7	\$ 1,000.00	\$ 13,165.38	\$ 1,276.58
17.4	Monumentation Survey Filing Map (SFM)					4		8	2	90	190	\$ 8,933	\$ 15,852	\$ 15	\$ 1,500.00	\$ 26,299.83	\$ 2,602.39
TOTAL Non-Contingency						22	18	80	18	122	10889	\$ 525,216	\$ 931,996	\$ 893	\$ 18,650.00	\$ 1,476,755.76	\$ 153,007.35
CONTINGENCY TASKS/DELIVERABLES																	
TOTAL Contingency						0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL Non-Contingency + Contingency						22	18	80	18	122	10,889	\$ 525,216	\$ 931,996	\$ 893	\$ 18,650.00	\$ 1,476,755.76	\$ 153,007.35

David Evans & Associates	MULTIPLIERS												Global Transportation Engineering	NGI		
	% of budget in Current Year (CY)		0.00%		Accepted Overhead											
	% of budget in CY+1		100.00%		FCCM											
	% of budget in CY+2		0.00%		Negotiated Profit											
	% of budget in CY+3		0.00%		Annual Es											
	Weighted Escalation Factor		1.030													
Global Transportation Engineering												Certification:		DBE		Senior Engineer/ Geologist
DATA ENTRY SECTION					CALCULATION SECTION											
Principal/ Project Manager 4 (Dana Beckwith)	Senior Project Engineer 5 (Monica Leal)	Sr Engineering Associate 4 (Robert Splerling)	Engineering Associate 1 (Phoebe Kuo)	Tech XIV (Rick Harkins)	Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit					
\$140.00	\$140.00	\$120.00	\$75.00	\$95.00												
\$144.20	\$144.20	\$123.60	\$77.25	\$97.85												
\$144.20	\$144.20	\$123.60	\$77.25	\$97.85			0.00%	0.00%			0.00%	\$197.00				
												\$197.00				
					0	\$ -	\$ -	\$ -		\$ -	\$ -					
					0	\$ -	\$ -	\$ -		\$ -	\$ -					
					0	\$ -	\$ -	\$ -		\$ -	\$ -					
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0				
					0	\$ -	\$ -	\$ -		\$ -	\$ -					
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0				
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					0	\$ -	\$ -	\$ -		\$ -	\$ -					
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29	4	0	48	20	101	\$ 10,424	\$ -	\$ -	\$ 100.00	\$ 10,523.60	\$ -	0				
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0				
29	4	0	48	20	101	\$ 10,424	\$ -	\$ -	\$ 100.00	\$ 10,523.60	\$ -	0				

[illegible]

Breakdown of Costs - Dated: 07/29/2022

MULTIPLIERS			
	in Current Year (CY)	100.00%	Accepted Overhead
Amendment No. 3	in CY+1	0.00%	FCCM
PROJECT NAME: NE 42nd Ave Bridge Replacement	in CY+2	0.00%	Negotiated Profit
	in CY+3	0.00%	Annual Es
	icalation Factor	1.000	

Job Classifications (Individuals' names are optional)						Certification:				MWESB					
		DATA ENTRY SECTION				CALCULATION SECTION									
		Project Engineer/ Geologist II	Project Engineer/ Geologist I	Staff Engineer/ Geologist II	Engineering Technician II	Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit			
		Direct Salary Rate (Avg, Actual, Max) Current Year	\$175.00	\$159.00	\$136.00	\$103.00			0.00%	0.00%			0.00%		
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)	\$175.00	\$159.00	\$136.00	\$103.00											
Fully Burdened Billing Rate	\$175.00	\$159.00	\$136.00	\$103.00											
NON-CONTINGENCY TASKS/DELIVERABLES															
15.3	Construction Administration														
15.4	Punch List / Close-Out														
15.5	Dispute/Claim Resolution														
16	QUALITY COMPLIANCE				0	0	0	0	\$ -	\$ -	\$ -	\$ -			
16.1	Quality Compliance														
17	CONSTRUCTION SURVEY QUALITY ASSURANCE				0	0	0	0	\$ -	\$ -	\$ -	\$ -			
17.1	Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work														
17.2	Locate, Recover and Reference Monuments														
17.3	Right of Way ("ROW") Monumentation														
17.4	Monumentation Survey Filing Map (SFM)														
TOTAL Non-Contingency					7	0	0	0	7	\$ 1,225	\$ -	\$ -	\$ -	\$ 1,225.00	\$ -
CONTINGENCY TASKS/DELIVERABLES															
TOTAL Contingency					0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL Non-Contingency + Contingency					7	0	0	0	7	\$ 1,225	\$ -	\$ -	\$ -	\$ 1,225.00	\$ -

MULTIPLIERS			
% of budget in Current Year (CY)	50.00%		
% of budget in CY+1	50.00%		
% of budget in CY+2	0.00%		
% of budget in CY+3	0.00%	3.00%	
Weighted Escalation Factor	1.015		

Teragan Associates							Certification:		Not Certified			
DATA ENTRY SECTION					CALCULATION SECTION							
Todd Prager (Certified Arborist)					Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	
\$175.00												
\$177.63												
\$177.63							0.00%	0.00%			0.00%	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
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					0	\$ -	\$ -	\$ -		\$ -	\$ -	
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					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
22	0	0	0	0	22	\$ 3,908	\$ -	\$ -	\$ -	\$ 3,907.75	\$ -	
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
22	0	0	0	0	22	\$ 3,908	\$ -	\$ -	\$ -	\$ 3,907.75	\$ -	

% of budget in Current Year (C			
% of budget in CY+1			
% of budget in CY+2			
% of budget in CY+3			
Weighted Escalation Factor			

ACMS			
DATA ENTRY SECTION			
Engineering Technician	Construction Inspector		
\$121.65	\$141.00		
\$125.70	\$145.69		
\$125.70	\$145.69		
1480			
40			
40			
0	0	0	
0	0	0	
1560	3120	0	
0	0	0	
1560	3120	0	

Breakdown of Costs - Dated: 07/29/2022

MULTIPLIERS				
Y)	20.00%	Accepted Overhead		0.00%
Amendment No. 3	50.00%	FCCM		0.00%
PROJECT NAME: NE 42nd Ave Bridge Replacement	30.00%	Negotiated Profit		0.00%
	0.00%	Annual Escalation Rate	3.00%	
	1.033			

Job Classifications (Individuals' names are optional)										Certification:			DBE & MWESB			
		CALCULATION SECTION														
									Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	
		Direct Salary Rate (Avg, Actual, Max) Current Year														
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)										0.00%	0.00%				0.00%	
Task #	Fully Burdened Billing Rate															
NON-CONTINGENCY TASKS/DELIVERABLES																
1	PROJECT MANAGEMENT AND ADMINISTRATION	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1.1	Project Coordination							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
1.2	Project Schedule and Work Plan							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
1.3	Monthly Invoices and Progress Reports							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
2	MEETINGS	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2.5	Utility Coordination Meetings - 7 additional meetings							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
3	ADVANCED CONCEPT ENGINEERING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4	SURVEYING AND MAPPING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4.1	Survey Data Research							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
4.2	Additional ROW parcel							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
4.6	Utility Pothole Locates							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
4.7	ROW Staking							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
5	HAZARDOUS MATERIALS ENGINEERING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6	GEOTECHNICAL ENGINEERING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7	PRELIMINARY ENGINEERING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8	FINAL ENGINEERING (60%, 90%, 100%, AND FINAL PS&E)	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8.6	Final Engineering (Additional Scope)							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.1	Street Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.2	Bridge Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.3	Retaining Wall Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.4	Stormwater Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.5	Update for 2020 City of Portland Std. Construction Specs							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.6	Intersection Design Vehicle Assumption Reports							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.7	95% PS&E Submittal							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.8	Existing Sewer Relocation							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.9	42nd & Holman Survey/Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
8.6.10	BES Planting Coordination							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
9	ENVIRONMENTAL COORDINATION AND PERMITTING							0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10	UTILITY COORDINATION	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11	RAILROAD COORDINATION	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	TRAFFIC ENGINEERING	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13	LOMBARD ODOT DESIGN	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.1	Preliminary Investigations & Coordination							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.2	Project Management							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.3	Roadway Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.4	Design Exceptions							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.5	Drainage Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.6	Traffic Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.7	Erosion Control Design							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
13.8	Survey							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
14	CONSTRUCTION PROJECT MANAGEMENT	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.1	Project Coordination							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
14.2	Monthly Invoices and Progress Reports							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
14.3	Construction Meetings							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
15	CONSTRUCTION SUPPORT	0	0	0	0	0	0	4680	\$ 650,644	\$ -	\$ -	\$ -	\$ 5,850.00	\$ 656,493.92	\$ -	
15.1	Construction Manager							0	\$ -	\$ -	\$ -	\$ -		\$ -	\$ -	
15.2	Construction Inspection							3120	\$ 454,556	\$ -	\$ -	\$ -	\$ 4,875.00	\$ 459,431.14	\$ -	

MULTIPLIERS		
% of budget in Current Year (CY)	50.00%	
% of budget in CY+1	50.00%	
% of budget in CY+2	0.00%	
% of budget in CY+3	0.00%	3.00%
Weighted Escalation Factor	1.015	

Marianne Zarkin Landscape Architects										Certification:		MWESB	
DATA ENTRY SECTION					CALCULATION SECTION								
Principal LA (Marianne Zarkin)	Landscape Architect (Larua Hartzell)	Project Admin (Susan Baker)			Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit		
\$140.00	\$109.00	\$75.00											
\$142.10	\$110.64	\$76.13											
\$142.10	\$110.64	\$76.13					0.00%	0.00%			0.00%		
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0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
10	40	0	0	0	50	\$ 5,846	\$ -	\$ -	\$ -	\$ 5,846.40	\$ -		
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10	40				50	\$ 5,846	\$ -	\$ -		\$ 5,846.40	\$ -		
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Breakdown of Costs - Dated: 07/29/2022

MULTIPLIERS				
Y)	20.00%	Accepted Overhead		0.00%
Amendment No. 3	50.00%	FCCM		0.00%
PROJECT NAME: NE 42nd Ave Bridge Replacement	30.00%	Negotiated Profit		0.00%
	0.00%	Annual Escalation Rate	3.00%	
	1.033			

Task # 	
--	--

MULTIPLIERS		
% of budget in Current Year (CY)	50.00%	
% of budget in CY+1	50.00%	
% of budget in CY+2	0.00%	
% of budget in CY+3	0.00%	3.00%
Weighted Escalation Factor	1.015	

Marianne Zarkin Landscape Architects							Certification:		MWESB			
DATA ENTRY SECTION					CALCULATION SECTION							
Principal LA (Marianne Zarkin)	Landscape Architect (Larua Hartzell)	Project Admin (Susan Baker)			Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	
\$140.00	\$109.00	\$75.00										
\$142.10	\$110.64	\$76.13										
\$142.10	\$110.64	\$76.13					0.00%	0.00%			0.00%	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
					0	\$ -	\$ -	\$ -		\$ -	\$ -	
10	40	0	0	0	50	\$ 5,846	\$ -	\$ -	\$ -	\$ 5,846.40	\$ -	
0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10	40	0	0	0	50	\$ 5,846	\$ -	\$ -	\$ -	\$ 5,846.40	\$ -	

Breakdown of Costs - Dated: 07/29/2022

MULTIPLIERS				
	% of budget in Current Year (CY)	55.00%	Accepted Overhead	148.72%
Amendment No. 3	% of budget in CY+1	30.00%	FCCM	
PROJECT NAME: NE 42nd Ave Bridge Replacement	% of budget in CY+2	15.00%	Negotiated Profit	10.50%
	% of budget in CY+3	0.00%	Annual Escalation R	3.00%
	Weighted Escalation Factor	1.018		

Exeltech Consulting, Inc.										Certification:		MWESB		Exeltech				
DATA ENTRY SECTION										CALCULATION SECTION								
Job Classifications (Individuals' names are optional)										Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM		Direct Expenses	Total Cost	Profit	
Principal Engineer	Supervisory Engineer	Senior Engineer	Structural Engineer	Project Engineer	Associate Engineer	Cadd Tech	Admin											
Direct Salary Rate (Avg, Actual, Max) Current Year										\$75.00	\$61.00	\$40.00	\$61.00		\$35.00	\$34.00	\$23.50	\$20.00
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)										\$76.36	\$62.11	\$40.73	\$62.11		\$35.63	\$34.62	\$23.93	\$20.36
Fully Burdened Billing Rate										\$209.86	\$170.69	\$111.93	\$170.69		\$97.94	\$95.14	\$65.76	\$55.96
Task #	NON-CONTINGENCY TASKS/DELIVERABLES																	
1	PROJECT MANAGEMENT AND ADMINISTRATION									0	0	0	0		0	0	0	0
1.1	Project Coordination									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1.2	Project Schedule and Work Plan									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
1.3	Monthly Invoices and Progress Reports									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2	MEETINGS									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
2.5	Utility Coordination Meetings - 7 additional meetings									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
3	ADVANCED CONCEPT ENGINEERING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4	SURVEYING AND MAPPING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4.1	Survey Data Research									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4.2	Additional ROW parcel									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4.6	Utility Pothole Locates									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
4.7	ROW Staking									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
5	HAZARDOUS MATERIALS ENGINEERING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6	GEOTECHNICAL ENGINEERING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7	PRELIMINARY ENGINEERING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8	FINAL ENGINEERING (60%, 90%, 100%, AND FINAL PS&E)									0	0	53	170	126	0	212	0	
8.6	Final Engineering (Additional Scope)									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8.6.1	Street Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8.6.2	Bridge Design									43	\$ 2,084	\$ 3,100	\$ -	\$ -	\$ 5,183.63	\$ 544.28		
8.6.3	Retaining Wall Design									235	\$ 10,001	\$ 14,874	\$ -	\$ -	\$ 24,874.84	\$ 2,611.86		
8.6.4	Stormwater Design									212	\$ 7,606	\$ 11,312	\$ -	\$ -	\$ 18,918.85	\$ 1,986.48		
8.6.5	Update for 2020 City of Portland Std. Construction Specs									13	\$ 596	\$ 886	\$ -	\$ -	\$ 1,481.40	\$ 155.55		
8.6.6	Intersection Design Vehicle Assumption Reports									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8.6.7	95% PS&E Submittal									6	\$ 243	\$ 362	\$ -	\$ -	\$ 605.22	\$ 63.55		
8.6.8	Existing Sewer Relocation									52	\$ 1,748	\$ 2,600	\$ -	\$ -	\$ 4,347.97	\$ 456.54		
8.6.9	42nd & Holman Survey/Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
8.6.10	BES Planting Coordination									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
9	ENVIRONMENTAL COORDINATION AND PERMITTING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10	UTILITY COORDINATION									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11	RAILROAD COORDINATION									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
12	TRAFFIC ENGINEERING									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13	LOMBARD ODOT DESIGN									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.1	Preliminary Investigations & Coordination									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.2	Project Management									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.3	Roadway Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.4	Design Exceptions									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.5	Drainage Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.6	Traffic Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.7	Erosion Control Design									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
13.8	Survey									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14	CONSTRUCTION PROJECT MANAGEMENT									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.1	Project Coordination									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.2	Monthly Invoices and Progress Reports									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.3	Construction Meetings									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15	CONSTRUCTION SUPPORT									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.1	Construction Manager									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.2	Construction Inspection									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Breakdown of Costs - Dated: 07/29/2022

MULTIPLIERS			
	% of budget in Current Year (CY)	55.00%	Accepted Overhead 148.72%
Amendment No. 3	% of budget in CY+1	30.00%	FCCM
PROJECT NAME: NE 42nd Ave Bridge Replacement	% of budget in CY+2	15.00%	Negotiated Profit 10.50%
	% of budget in CY+3	0.00%	Annual Escalation R 3.00%
	Weighted Escalation Factor	1.018	

Exeltech Consulting, Inc.										Certification:		MWESB					
DATA ENTRY SECTION										CALCULATION SECTION							
Job Classifications (Individuals' names are optional)										Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	
Principal Engineer	Supervisory Engineer	Senior Engineer	Structural Engineer	Project Engineer	Associate Engineer	Cadd Tech	Admin										
Direct Salary Rate (Avg, Actual, Max) Current Year										\$75.00	\$61.00	\$40.00	\$61.00	\$35.00	\$34.00	\$23.50	\$20.00
Annualized Direct Salary Rate (OR enter Negotiated Billing Rate)										\$76.36	\$62.11	\$40.73	\$62.11	\$35.63	\$34.62	\$23.93	\$20.36
Fully Burdened Billing Rate										\$209.86	\$170.69	\$111.93	\$170.69	\$97.94	\$95.14	\$65.76	\$55.96
Task #												148.72%	0.00%			10.50%	
NON-CONTINGENCY TASKS/DELIVERABLES																	
15.3	Construction Administration									0	\$ -	\$ -	\$ -		\$ -	\$ -	
15.4	Punch List / Close-Out									0	\$ -	\$ -	\$ -		\$ -	\$ -	
15.5	Dispute/Claim Resolution									0	\$ -	\$ -	\$ -		\$ -	\$ -	
16	QUALITY COMPLIANCE									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
16.1	Quality Compliance									0	\$ -	\$ -	\$ -		\$ -	\$ -	
17	CONSTRUCTION SURVEY QUALITY ASSURANCE									0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
17.1	Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work									0	\$ -	\$ -	\$ -		\$ -	\$ -	
17.2	Locate, Recover and Reference Monuments									0	\$ -	\$ -	\$ -		\$ -	\$ -	
17.3	Right of Way ("ROW") Monumentation									0	\$ -	\$ -	\$ -		\$ -	\$ -	
17.4	Monumentation Survey Filing Map (SFM)									0	\$ -	\$ -	\$ -		\$ -	\$ -	
TOTAL Non-Contingency										561	\$ 22,279	\$ 33,133	\$ -	\$ -	\$ 55,411.91	\$ 5,818.25	
CONTINGENCY TASKS/DELIVERABLES																	
TOTAL Contingency										0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL Non-Contingency + Contingency										561	\$ 22,279	\$ 33,133	\$ -	\$ -	\$ 55,411.91	\$ 5,818.25	

Breakdown of Costs - Dated: 07/29/2022

Amendment No. 3
PROJECT NAME: NE 42nd Ave Bridge Replacement

Job Classifications (Individuals' names are optional)		Project Summary								
		GRAND TOTAL CALCULATION SECTION								
		Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	Cost + Profit	% of Total Non-Contingency Labor Costs
Direct Salary Rate (Avg, Actual, Max) Current Year Annualized Direct Salary Rate (OR enter Negotiated Billing Rate) Fully Burdened Billing Rate										
Task #										
NON-CONTINGENCY TASKS/DELIVERABLES										
1	PROJECT MANAGEMENT AND ADMINISTRATION	172	\$ 12,152	\$ 21,563	\$ 21	\$ -	\$ 33,736	\$ 3,540	\$ 37,276	1.5%
1.1	Project Coordination	126	\$ 9,404	\$ 16,688	\$ 16	\$ -	\$ 26,108.26	\$ 2,739.69	\$ 28,847.95	1.2%
1.2	Project Schedule and Work Plan	4	\$ 370	\$ 657	\$ 1	\$ -	\$ 1,028.24	\$ 107.90	\$ 1,136.14	0.0%
1.3	Monthly Invoices and Progress Reports	42	\$ 2,377	\$ 4,218	\$ 4	\$ -	\$ 6,599.12	\$ 692.48	\$ 7,291.60	0.3%
2	MEETINGS	31	\$ 1,893	\$ 3,359	\$ 3	\$ -	\$ 5,254.81	\$ 551.42	\$ 5,806.23	0.2%
2.5	Utility Coordination Meetings - 7 additional meetings	31	\$ 1,893	\$ 3,359	\$ 3	\$ -	\$ 5,254.81	\$ 551.42	\$ 5,806.23	0.2%
3	ADVANCED CONCEPT ENGINEERING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
4	SURVEYING AND MAPPING	179	\$ 8,113	\$ 14,396	\$ 14	\$ 800.00	\$ 23,322.40	\$ 2,363.40	\$ 25,685.80	1.0%
4.1	Survey Data Research	45	\$ 2,715	\$ 4,818	\$ 5	\$ -	\$ 7,537.17	\$ 790.92	\$ 8,328.09	0.3%
4.2	Additional ROW parcel	20	\$ 977	\$ 1,734	\$ 2	\$ -	\$ 2,712.27	\$ 284.61	\$ 2,996.88	0.1%
4.6	Utility Pothole Locates	40	\$ 1,553	\$ 2,756	\$ 3	\$ 800.00	\$ 5,111.27	\$ 452.41	\$ 5,563.68	0.2%
4.7	ROW Staking	74	\$ 2,868	\$ 5,089	\$ 5	\$ -	\$ 7,961.68	\$ 835.46	\$ 8,797.15	0.4%
5	HAZARDOUS MATERIALS ENGINEERING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
6	GEOTECHNICAL ENGINEERING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
7	PRELIMINARY ENGINEERING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
8	FINAL ENGINEERING (60%, 90%, 100%, AND FINAL PS&E)	1,318	\$ 67,532	\$ 96,126	\$ 60	\$ -	\$ 163,717.99	\$ 16,159.87	\$ 179,877.86	7.5%
8.6	Final Engineering (Additional Scope)	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
8.6.1	Street Design	337	\$ 17,390	\$ 30,859	\$ 30	\$ -	\$ 48,279.12	\$ 5,066.20	\$ 53,345.33	2.2%
8.6.2	Bridge Design	102	\$ 4,942	\$ 8,170	\$ 5	\$ -	\$ 13,116.76	\$ 1,376.75	\$ 14,493.51	0.6%
8.6.3	Retaining Wall Design	235	\$ 10,001	\$ 14,874	\$ -	\$ -	\$ 24,874.84	\$ 2,611.86	\$ 27,486.69	1.1%
8.6.4	Stormwater Design	212	\$ 7,606	\$ 11,312	\$ -	\$ -	\$ 18,918.85	\$ 1,986.48	\$ 20,905.33	0.9%
8.6.5	Update for 2020 City of Portland Std. Construction Specs	57	\$ 3,483	\$ 6,009	\$ 5	\$ -	\$ 9,496.90	\$ 996.66	\$ 10,493.56	0.4%
8.6.6	Intersection Design Vehicle Assumption Reports	105	\$ 5,122	\$ 9,088	\$ 9	\$ -	\$ 14,218.63	\$ 1,492.04	\$ 15,710.67	0.7%
8.6.7	95% PS&E Submittal	19	\$ 1,079	\$ 1,844	\$ 1	\$ -	\$ 2,924.27	\$ 306.90	\$ 3,231.17	0.1%
8.6.8	Existing Sewer Relocation	52	\$ 1,748	\$ 2,600	\$ -	\$ -	\$ 4,347.97	\$ 456.54	\$ 4,804.50	0.2%
8.6.9	42nd & Holman Survey/Design	118	\$ 5,861	\$ 10,400	\$ 10	\$ -	\$ 16,270.59	\$ 1,707.37	\$ 17,977.95	0.7%
8.6.10	BES Planting Coordination	81	\$ 10,300	\$ 969	\$ 1	\$ -	\$ 11,270.06	\$ 159.07	\$ 11,429.14	0.5%
9	ENVIRONMENTAL COORDINATION AND PERMITTING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
10	UTILITY COORDINATION	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
11	RAILROAD COORDINATION	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
12	TRAFFIC ENGINEERING	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.0%
13	LOMBARD ODOT DESIGN	866	\$ 49,413	\$ 67,014	\$ 64	\$ 150.00	\$ 116,641.14	\$ 11,001.73	\$ 127,642.87	5.3%
13.1	Preliminary Investigations & Coordination	119	\$ 7,142	\$ 10,499	\$ 10	\$ -	\$ 17,650.66	\$ 1,723.64	\$ 19,374.30	0.8%
13.2	Project Management	68	\$ 3,999	\$ 7,096	\$ 7	\$ -	\$ 11,101.90	\$ 1,164.99	\$ 12,266.88	0.5%
13.3	Roadway Design	250	\$ 11,936	\$ 21,180	\$ 20	\$ -	\$ 33,136.34	\$ 3,477.18	\$ 36,613.52	1.5%
13.4	Design Exceptions	90	\$ 4,392	\$ 7,794	\$ 7	\$ -	\$ 12,193.41	\$ 1,279.52	\$ 13,472.94	0.6%
13.5	Drainage Design	166	\$ 8,151	\$ 14,463	\$ 14	\$ -	\$ 22,627.76	\$ 2,374.46	\$ 25,002.22	1.0%
13.6	Traffic Design	101	\$ 10,424	\$ -	\$ -	\$ 100.00	\$ 10,523.60	\$ -	\$ 10,523.60	0.5%
13.7	Erosion Control Design	50	\$ 2,422	\$ 4,298	\$ 4	\$ -	\$ 6,723.48	\$ 705.53	\$ 7,429.01	0.3%
13.8	Survey	22	\$ 949	\$ 1,684	\$ 2	\$ 50.00	\$ 2,683.99	\$ 276.40	\$ 2,960.39	0.1%
14	CONSTRUCTION PROJECT MANAGEMENT	654	\$ 28,545	\$ 50,653	\$ 49	\$ -	\$ 79,245.83	\$ 8,315.72	\$ 87,561.55	3.6%
14.1	Project Coordination	390	\$ 16,918	\$ 30,021	\$ 29	\$ -	\$ 46,967.17	\$ 4,928.53	\$ 51,895.70	2.1%
14.2	Monthly Invoices and Progress Reports	96	\$ 3,384	\$ 6,005	\$ 6	\$ -	\$ 9,394.33	\$ 985.80	\$ 10,380.14	0.4%
14.3	Construction Meetings	168	\$ 8,243	\$ 14,627	\$ 14	\$ -	\$ 22,884.33	\$ 2,401.38	\$ 25,285.71	1.0%
15	CONSTRUCTION SUPPORT	10,752	\$ 948,571	\$ 528,671	\$ 506	\$ 13,650.00	\$ 1,491,398.87	\$ 86,792.84	\$ 1,578,191.71	67.6%
15.1	Construction Manager	2,956	\$ 155,694	\$ 276,279	\$ 265	\$ 2,925.00	\$ 435,163.35	\$ 45,357.24	\$ 480,520.59	19.8%
15.2	Construction Inspection	6,096	\$ 589,848	\$ 240,075	\$ 230	\$ 9,750.00	\$ 839,902.30	\$ 39,413.45	\$ 879,315.75	38.0%

Breakdown of Costs - Dated: 07/29/2022

Amendment No. 3
PROJECT NAME: NE 42nd Ave Bridge Replacement

		Project Summary								
		GRAND TOTAL CALCULATION SECTION								
Job Classifications (Individuals' names are optional)		Hours	Escalated Direct Labor or NBR \$	Overhead	FCCM	Direct Expenses	Total Cost	Profit	Cost + Profit	% of Total Non-Contingency Labor Costs
Direct Salary Rate (Avg, Actual, Max) Current Year Annualized Direct Salary Rate (OR enter Negotiated Billing Rate) Task # Fully Burdened Billing Rate										
NON-CONTINGENCY TASKS/DELIVERABLES										
15.3	Construction Administration	1,480	\$ 186,032	\$ -	\$ -	\$ 975.00	\$ 187,007.00	\$ -	\$ 187,007.00	8.5%
15.4	Punch List / Close-Out	120	\$ 8,953	\$ 6,965	\$ 7	\$ -	\$ 15,925.19	\$ 1,143.52	\$ 17,068.71	0.7%
15.5	Dispute/Claim Resolution	100	\$ 8,044	\$ 5,352	\$ 5	\$ -	\$ 13,401.02	\$ 878.64	\$ 14,279.66	0.6%
16	QUALITY COMPLIANCE	1,560	\$ 69,687	\$ 123,660	\$ 118	\$ -	\$ 193,465.69	\$ 20,301.46	\$ 213,767.15	8.9%
16.1	Quality Compliance	1,560	\$ 69,687	\$ 123,660	\$ 118	\$ -	\$ 193,465.69	\$ 20,301.46	\$ 213,767.15	8.9%
17	CONSTRUCTION SURVEY QUALITY ASSURANCE	778	\$ 33,637	\$ 59,688	\$ 57	\$ 10,000.00	\$ 103,381.98	\$ 9,799.10	\$ 113,181.08	4.3%
17.1	Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work	384	\$ 15,940	\$ 28,285	\$ 27	\$ 6,500.00	\$ 50,751.38	\$ 4,643.55	\$ 55,394.93	2.0%
17.2	Locate, Recover and Reference Monuments	102	\$ 4,382	\$ 7,776	\$ 7	\$ 1,000.00	\$ 13,165.38	\$ 1,276.58	\$ 14,441.96	0.6%
17.3	Right of Way ("ROW") Monumentation	102	\$ 4,382	\$ 7,776	\$ 7	\$ 1,000.00	\$ 13,165.38	\$ 1,276.58	\$ 14,441.96	0.6%
17.4	Monumentation Survey Filing Map (SFM)	190	\$ 8,933	\$ 15,852	\$ 15	\$ 1,500.00	\$ 26,299.83	\$ 2,602.39	\$ 28,902.22	1.1%
TOTAL Non-Contingency		16,310	\$ 1,219,542	\$ 965,130	\$ 893	\$ 24,600.00	\$ 2,210,164.34	\$ 158,825.60	\$ 2,368,989.94	
CONTINGENCY TASKS/DELIVERABLES										
TOTAL Contingency		0	\$ -	\$ -	\$ -	-	-	-	-	
TOTAL Non-Contingency + Contingency		16,310	\$ 1,219,542	\$ 965,130	\$ 893	24,600.00	2,210,164.34	158,825.60	2,368,989.94	

Consulting Firm: David Evans and Associates, Inc.

(Complete a separate sheet for Prime and each subconsultant, as needed. Totals must be manually entered into the BOC worksheet.)

Task #	Description	Basis of Estimate	Amount
NON-CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
4	SURVEYING AND MAPPING		\$ 800.00
4.6	Utility Pothole Locates	Flagging	\$ 800.00
13	LOMBARD ODOT DESIGN		\$ 50.00
13.8	Survey	Survey mileage	\$ 50.00
15	CONSTRUCTION SUPPORT		\$ 7,800.00
15.2	Mileage	20 Mile RT x 1 trip/day * 78 weeks (7,800 @ \$0.625/mile)	\$ 2,925.00
15.3	Mileage	20 Mile RT x 3 trip/wk * 78 weeks 5 days per week (1,560 @ \$0.625/mile)	\$ 4,875.00
16	QUALITY COMPLIANCE		\$ -
17	CONSTRUCTION SURVEY QUALITY ASSURANCE		\$ 10,000.00
17	Survey	LS - Mileage to Site + Survey Recording, Monuments, Files	\$ 10,000.00
			\$ 18,650.00
CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
TOTAL Contingency			\$ -
TOTAL Non-Contingency + Contingency			\$ 18,650.00

Consulting Firm: **ACMS**

(Complete a separate sheet for Prime and each subconsultant, as needed. Totals must be manually entered into the BOC worksheet.)

Task #	Description	Basis of Estimate	Amount
NON-CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
15	CONSTRUCTION SUPPORT		\$ 5,850.00
15.1	Mileage	20 Mile RT x 1 trip/day * 78 weeks 5 days per week (7,800 @ \$0.625/mile)	\$ 4,875.00
15.2	Mileage	20 Mile RT x 1 trip/wk * 78 weeks (1,560 @ \$0.625/mile)	\$ 975.00
			\$ 5,850.00
CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
TOTAL Contingency			\$ -
TOTAL Non-Contingency + Contingency			\$ 5,850.00

Consulting Firm: Global Transportation Engineering

(Complete a separate sheet for Prime and each subconsultant, as needed. Totals must be manually entered into the BOC worksheet.)

Task #	Description	Basis of Estimate	Amount
NON-CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
13	LOMBARD ODOT DESIGN		
			\$ 100.00
13.6	Traffic Design	Photocopies	\$ 100.00
			\$ 100.00
CONTINGENCY TASKS/DELIVERABLES		Include enough detail for the reader to understand how the estimate was determined.	
TOTAL Contingency			\$ -
TOTAL Non-Contingency + Contingency			\$ 100.00

EXHIBIT B
STATEMENT OF WORK (SOW) – AMENDMENT 3
Engineering, Land Surveying and Related Services
for

NE 42ND AVENUE OVER NE LOMBARD STREET BRIDGE DESIGN

Project Name: NE 42 nd Ave Over NE Lombard St Bridge Design	Contract Number: 30006826
Roadway Name: NE 42 nd Avenue	Work Order: Amendment 3
Completion Date (revised): 12/31/2024	
Owner: Portland Bureau of Transportation (Agency) Winston Sandino (Project Manager) 1120 SW 5 th Ave, Suite 800 Portland, OR 97204 503.823.5767 (Phone) Winston.Sandino@portlandoregon.gov	Consultant: David Evans and Associates Doug Johnson, PE (Project Manager) 530 Center St NE Salem, OR 97301 503.408.1309 (Phone) dmj@deainc.com

AMENDMENT OVERVIEW

This amendment revises the SOW in three general packages:

- Amending the original contract with out of scope work for the project by adding street design, bridge, and retaining wall work not anticipated in the original contract scope, providing survey and design for ramp at the NW corner of 42nd & Holman, adding Intersection Design Vehicle Assumption Reports (IDVARs) for turn movements along the project, providing PWB design exception documents, modifying sewer designs as a result of potholing, providing additional survey research regarding ownership and jurisdictional boundaries, surveying utility potholes, adding utility coordination meetings, revising special provisions and estimate for the 2020 Portland Standard Construction Specifications, providing an additional (95%) submittal package for review and comment, and extending the project schedule.
- Incorporating work to NE Lombard as requested and funded by ODOT, detailed below.
- Adding a Construction Management and Inspection task to support PBOT during construction.

CONSTRUCTION SUPPORT

As described in Tasks 14 - 17, Consultant shall administer the construction of the 42nd Avenue Bridge Replacement and the NE Lombard work in accordance with the Project Plans, Special Provisions, and the City of Portland Standard Construction Specifications, in effect at the time the project is advertised for construction.

ASSUMPTIONS & EXCLUSIONS

Construction Support Assumptions

- Quality Assurance material testing is excluded from the Consultants Scope.
- Construction Survey Staking is excluded from the Consultant's Scope.
- The Owner will provide access to the eBuilder document management platform for managing construction documentation.
- The Construction Contractor will retain sole responsibility for site safety.

EXHIBITS

The following exhibits are incorporated into this Amendment by this reference:

Exhibit A: Statement of Work (SOW)

Exhibit B: Breakdown of Costs (BOC) dated 8/1/2022

Exhibit C: ODOT Approval for Funds

(ODOT to Pay PBOT up to \$597,000 for design and construction work on NE Lombard in conjunction with the T00713 project)

Exhibit D: ODOT Supplemental Information

PROJECT SCHEDULE

The project schedule is revised to assume that final stamped PS&E will be submitted by November 30, 2022 and construction completion will occur by May 31, 2025.

It is assumed that the Construction NTP date of approximately April 1, 2023. It is assumed that construction will be complete and closeout by May 31, 2025.

TASKS

Task 1 Project Management and Coordination (Additional Scope)

Consultant shall provide project coordination, invoicing, and progress reports for an additional 14 months due to the revised project schedule.

Task 2.5 Utility Coordination Meetings (Additional Scope)

Consultant shall schedule, prepare for, attend and document up to seven (7) additional Utility Coordination Meetings.

Task 4.1 Survey Data Research (Additional Scope)

Consultant shall perform additional research to review available documentation pertaining to the extent of ownership and apparent discrepancies in the jurisdictional boundaries between ODOT, PBOT and Union Pacific Railroad in the vicinity of NE 42nd Avenue and NE Lombard Street.

Task 4.2 Additional ROW Parcel (Additional Scope)

Consultant shall prepare legal description and exhibit map for one additional ROW parcel as required for the sewer line relocation.

Task 4.6 Utility Pothole Locates (New Task)

Consultant shall survey and tie the location of 20 potholes for Lumen (CenturyLink) facilities throughout the length of the project and add data into the project base map.

Task 4.1 ROW staking (New Task)

Consultant shall stake existing and proposed ROW lines and temporary easement lines for 5 proposed ROW parcels.

Task 8.6 Final Engineering (60%, 90%, 100% and Final PS&E - Additional Scope)

Task 8.6.1 Street Design (Additional Scope)

Consultant shall investigate up to 3 alternatives for the southbound bike path intersection with the Lombard Street ramps. Consultant shall create and submit 12 additional Street Design plan sheets, including Title Sheet, Symbols, TOC, Typical Sections, Details, Horizontal Alignment and Street Plan and Profile sheets. Consultant shall update plans and incorporate review comments at each design stage and shall include additional sheets in 60%, 90%, 100% and Final PS&E submittals. Additional details must include varying pavement depths for various sections of the project as directed by PBOT. Consultant shall prepare exhibits showing the potential impacts of construction staging in the “half-moon” area between Lombard Street and the Lombard Ramps.

Task 8.6.2 Bridge Design (Additional Scope)

Consultant shall create and submit 3 additional Bridge Plan sheets. Additional details must include unique non-standard approach slabs at each end of the bridge. Consultant shall update plans and incorporate review comments at each design stage and shall include additional sheets in 60%, 90%, 100% and Final PS&E submittals.

Task 8.6.3 Retaining Wall Design (Additional Scope)

Consultant shall create and submit 7 additional Retaining Wall sheets. The retaining wall details must account for changes made to the roadway alignment after the Preliminary (30%) submittal. Three soldier pile walls, one precast concrete block wall and one precast barrier wall are included. Consultant shall update plans and incorporate review comments at each design stage and shall include additional sheets in 60%, 90%, 100% and Final PS&E submittals.

Task 8.6.4 Stormwater Design (Additional Scope)

Consultant shall revise and update stormwater conveyance design to incorporate results of utility potholing. Consultant shall prepare up to 6 Design Exceptions for Portland Water Bureau.

Task 8.6.5 Update for 2020 City of Portland Standard Construction Specifications (Additional Scope)

Consultant shall revise and update the preliminary special provisions and estimate to conform to 2020 City of Portland Standard Construction Specifications.

Task 8.6.6 Intersection Design Vehicle Assumption Reports (New Task)

Consultant shall create and submit up to 14 draft Intersection Design Vehicle Assumptions Reports (IDVARs) at public drive intersection and two driveways along the corridor to demonstrate proposed

vehicle access to existing businesses and public ROW. Consultant shall update and submit final IDVARs incorporating Agency comments.

Task 8.6.7 95% PS&E Submittal (New Task)

Consultant shall prepare and submit 95% Plans, Specifications and Estimate incorporating Agency comments on 90% submittal. Consultant shall record, track and respond to Agency comments on 95% submittal.

Task 8.6.8 Existing Sewer Relocation (Additional Effort)

Consultant shall provide additional effort to update and complete the relocated sewer plans, specifications and estimate.

Task 8.6.9 42nd & Holman Survey/Design (New Task)

Consultant shall collect topographic survey data needed for design at the 42nd & Holman intersection and add data into the DTM and project base map. Consultant shall create and submit 3 additional Street Design plan sheets covering the ADA design and associated drainage changes for the curb ramp at the NE corner of the 42nd & Holman intersection. Only the E-W ramp in the NW corner of the intersection will be designed, based on previous City investigations determining ADA compliance at the nearby ramps.

Task 8.6.10 BES Planting Coordination – International Tree Grove Support (New Task)

Consultant shall coordinate with BES and UF to understand tree removal impacts and re-planting requirements in the International Tree Grove. Consultant shall conduct a site visit and assess existing tree size, species, and health and include the trees to the existing tree inventory for the project.

Consultant shall modify existing design sheets and add approximately two additional planting sheets to incorporate tree removal areas which reflect changes to the staging area and BES's involvement with the International Tree Grove. These changes will require modifications to the overall plant schedule, tree plans and planting plans.

Consultant shall update associated cost estimate & quantities related to the elimination of the tree planting regarding the International Tree Grove area.

Consultant shall coordinate with BES staff, project arborist and City Urban Forester to confirm modifications to plans meet expectations for future planting and code requirements.

Consultant shall provide BES staff with base drawings for their use in producing a tree planting plan for the International Tree Grove and provide coordination to insure the inclusion of their drawing into the permit set for City review.

Consultant shall update tree inventory in correlation with Tree Plans and that tree mitigation numbers (including those in the International Tree Grove) meet with Urban Forestry requirements.

Task 13.1 Deliverables/Schedule: Consultant shall provide to the Agency:

- Updated tree inventory (as part of Task 9.2)
- Updated planting and tree removal plans (as part of Tasks 8.3 & 8.4)

TASK 13 ODOT DESIGN - LOMBARD

The City of Portland Bureau of Transportation (Agency) and Oregon Department of Transportation (ODOT) have entered into an agreement for Consultant to provide additional design services in connection with the Street Design Services for NE 42nd Ave Bridge Replacement. This comes as a request from ODOT to widen NE Lombard St in an approximate 500-linear foot stretch below the bridge.

Consultant shall prepare plans, specifications and estimates (PS&E) for the NE Lombard work that meet the requirements of the 2020 City of Portland Standard Construction Specifications.

The NE Lombard work will improve the existing right-of-way by widening paved shoulders on both the WB and EB direction of travel and constructing a sidewalk in the EB direction for pedestrians and cyclists to navigate this corridor more safely. Below is a detailed description of the work requested from ODOT:

ROADWAY DESIGN

- EB direction: Approximately 450 linear feet of improvement along NE Lombard. Replace the length of the existing asphalt path with an 8' sidewalk, 0.5' curb, 8' asphalt buffered bike lane (6' lane + 2' paint striped buffer)
 - The sidewalk will be 8' where it fits without impacting the proposed bridge abutment or slope paving, with a likely pinch point under the bridge (not to be less than 6' width).
 - Tie into existing driveway on the east end before power pole (shown in photo below). Adjacent property has removed driveway as access point.



- Begin new concrete sidewalk on west end with ODOT ramp details, matching to existing MUP access point shown below. This allows for future ODOT projects to connect to a new sidewalk.



- WB direction: Approximately 500 linear feet of improvement along NE Lombard. Widen to 6' min bike lane and using 2-horizontal to 1-vertical slopes into the UPRR ROW. Outside travel lane may be narrowed to 11' to accommodate this widened shoulder in places as required. A design exception is anticipated for these roadway cross sections.

STORMWATER DESIGN

- Direction from ODOT assumes no treatment will be added to existing drainage systems. ODOT has deemed the lack of federal nexus triggering treatment to this bike/ped improvement. Email detailing this assumption is attached Exhibit C. Scope to be completed with this project includes:
 - Adjust 3 inlets adjacent to the EB curb and reconnect with pipe
 - Water currently draining toward the railroad will continue to do so and will infiltrate without conveyance or treatment designs
- Railroad Ditch Analysis
 - A complete hydrologic and hydraulic study is required whenever new or additional drainage is added to the railroad right-of-way. The drainage pattern of the site before and after construction shall be analyzed. Hydraulic analysis for the ditch parallel to railroad tracks are sized to convey the 100-yr event with a minimum 10 feet bottom width. A drainage report will be completed in compliance with Railroad Hydraulic Criteria and report format.

ODOT/Lombard Inclusion – Assumptions and Exclusions

- No roadway lighting analysis or design along Lombard will be completed
- The work will be completed on a separate timeline from PBOT's project cycle and will require two (2) ODOT reviews. Final plans shall incorporate this additional work for contractor bidding.
- No additional submittals to UPRR shall be included to inform them of permanent changes adjacent to their ROW. Work in this amendment shall be included in 100% delivery package to UPRR. No additional support for UPRR aiding with ODOT changes is included in this effort.
- A single plan set and specification package will be completed inclusive of the bridge replacement project and the Lombard widening, all conforming to PBOT standards of drafting and specification formatting

- A separate cost estimate will be completed for work on Lombard, conforming to PBOT's engineering estimate template
- This will not require a BUD Urban Design Concurrence
- This will not require a new MAC presentation. An email updating the MAC of roadway changes will suffice and support will be provided by ODOT staff to complete this
- No access management process will be required. New design will terminate into existing before any adjacent driveways are touched.
- Existing culverts crossing Lombard Street are in good conditions and will not be replaced as part of this project (confirm assumption w/ ODOT culvert group)
- Drainage to the north (toward UPRR) will continue the same drainage pattern as today with a sliver fill. No additional treatment for flow control or quality will be included for that work. A RR ditch analysis will be completed for UPRR understanding and approval
- Infiltration tests from bridge replacement project will be accepted for any necessary ODOT design work.
- Infiltration rates found are high enough to manage stormwater runoff
- ODOT will provide as-built pavement information and pavement design information for improvements along NE Lombard Ave
- Assume 50mph design speed along Lombard (5mph over posted speed)
- No additional environmental assessment will be completed
- Tree impacts along Lombard will be treated according to ODOT tree removal policy and not reviewed via PBOT Urban Forestry Title XI standards.

Task 13.1 Preliminary Investigations & Coordination

Consultant shall coordinate with ODOT Project manager and ODOT staff prior to beginning work on PS&E deliverables to determine conceptual design of NE Lombard Street improvements. Coordination will occur via telephone communication, written correspondence, e-mail and meetings. This effort includes multiple iterations to requested improvements along NE Lombard by ODOT including varying slope angles and stability discussions, varied cross sectional widths and roadway design elements, investigations into existing stormwater facilities, and pavement sections.

Task 13.1 Deliverables/Schedule: Consultant shall provide to the Agency and ODOT:

- Meeting minutes and design memos describing design modification findings
- Agreed upon direction for improvements to NE Lombard for ODOT to be included with PBOT project

Task 13.2 Project Management

Consultant shall coordinate with ODOT Area Manager, ODOT technical leads, Agency Project Manager, and ODOT staff as needed throughout the duration of the project. Coordination will occur via telephone communication, written correspondence, e-mail and virtual on-line meetings.

Consultant shall schedule, prepare for, attend and document meetings through the Project duration. Meetings anticipated include:

- Team Meetings (4 x 1hr)
- Design Review Meetings (2 x 2hr)
- Agency Coordination Meetings (2 x 2hr)

Task 13.2 Deliverables/Schedule: Consultant shall provide to the Agency and ODOT:

- Maintenance and records of coordination activities and decisions made, and copies of documentation to Agency Project Manager upon completion of project, or as requested through the duration of the project.
- Agenda developed for each meeting, distributed one (1) business day prior to each meeting
- Meeting minutes distributed within five (5) business days following each meeting

Task 13.3 Roadway Design

Consultant shall complete a design of the roadway improvements detailed in this scope of work for delivery to ODOT & PBOT and final inclusion into PBOT's 42nd Over Lombard Project. Consultant shall document design efforts for ODOT & Agency review at the 60% level of completion and 100% level of completion.

Consultant shall complete 60% Roadway Design for the project with the goal of defining the project footprint, major items of work, and vertical and horizontal alignments. 60% deliverable will include a preliminary estimate of anticipated construction costs, and a draft list of additional ODOT construction specifications to be included with the PBOT project specifications. 100% Roadway plans for the Project will incorporate ODOT comments on the 60% submittal. Consultant shall update the final cost estimate and specifications.

Consultant shall prepare design deliverables that include the following:

- Roadway Design Plan & Profile (Assume 3 plan sheets)
- Horizontal Alignment Plans (Assume 1 plan sheet)
- Typical Sections (Assume 1 plan sheet)
- Details (Assume 1 plan sheet)
- Construction Cost Estimate

Consultant shall coordinate all submittals with the ODOT. Consultant shall respond to and update the plans as a result of review comments at each design review stage, assuming 2 reviews (60% & 100%) prior to stamped deliverable.

Consultant shall complete an internal QA/QC review of each submittal prior to delivery to the ODOT.

Task 13.3 Deliverables/Schedule: Consultant shall provide to the ODOT:

- One (1) full-size, 11"x17" set of preliminary design plans in Adobe Acrobat(.PDF) format
- 60% PS&E Engineer's Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- 100% PS&E Engineer's Final Bid Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- List of additional or edited special provisions required from ODOT to be included in PBOT Standard Project Special Provisions (at 60%)
- 100% PS&E Final stamped Technical Specifications in Microsoft Word

- Electronic files in MicroStation (.dgn) Design File format as part of the larger T00713 project. The MicroStation design files shall be kept on their original coordinate base. Level names that currently exist shall remain. New logical level names may be added as needed. All necessary MicroStation resource files (font libraries, line styles, etc.) shall be included with the returned set. File structure is to be organized so that the CADD operator can open the disk, go to a specific plan sheet and print the plan sheet in the final condition without having to reattach or move reference files. All files in MicroStation/InRoads format, file .dgn, .alg, .dtm and all CED cogo points.

Task 13.4 Design Exceptions

Consultant shall prepare up to 1 (one) ODOT Design Exception (DE) Request for the Project. The Design Exception Request must be prepared using the ODOT standard Design Exception Request form defined in the Highway Design Manual and processed by ODOT staff. The Design Exception is anticipated to include:

- Shy distance to guardrail, Shoulder Width, and WB outside lane width on NE Lombard St
 - a. Excludes any DE for WB inside lane width, EB lane widths, or median width along NE Lombard St

ODOT will provide comments on the draft Design Exception Request within 10 business days of the submittal to ODOT. The final Design Exception Requests for the Project will be submitted no later than 10 business days after receipt of comments. ODOT will coordinate approval of the Design Exception Requests.

Task 13.4 Deliverables/Schedule: Consultant shall provide to the ODOT

- 1 electronic copy (WORD and .pdf format) of Draft Design Exception Requests
- 1 electronic copy (WORD and .pdf format) of Final Design Exception Requests no later than 2 weeks after receipt of comments.

Task 13.5 Drainage Design

Consultant shall complete a design of the drainage improvements detailed in this scope of work for delivery to ODOT & PBOT and final inclusion into PBOT's 42nd Over Lombard Project. Consultant shall document design efforts for ODOT review at the 60% level of completion and 100% level of completion. This work shall meet current BES standards within the *City of Portland Stormwater Management Manual*.

Consultant shall complete 60% Drainage Design for the project and will develop drainage design including plans, profiles, stormwater details and typical sections of drainage. 60% deliverable will include a preliminary estimate of anticipated construction costs, and a draft list of additional ODOT construction specifications to be included with the PBOT project specifications. Consultant shall prepare a preliminary stormwater memo describing the results of the analysis.

100% drainage plans for the Project will incorporate ODOT comments on the 60% submittal and will develop drainage design including plans, profiles, stormwater details for the storm system proposed improvements. Consultant shall update the final cost estimate and specifications.

Consultant shall complete a Railroad Ditch Analysis which includes a complete hydrologic and hydraulic study of new or additional drainage added to the railroad right-of-way. The drainage pattern of the site

before and after construction shall be analyzed. The hydraulic analysis will review ditch capacity during the 100-year storm event under existing and proposed conditions. A drainage report will be completed in compliance with Railroad Hydraulic Criteria and report format.

Consultant shall coordinate all submittals with the ODOT. Consultant shall respond to and update the plans as a result of review comments at each design review stage, assuming 2 reviews prior to stamped deliverable.

Consultant shall complete an internal QA/QC review of each submittal prior to delivery to the ODOT.

Task 13.5 Deliverables/Schedule: Consultant shall provide to the ODOT:

- Railroad Ditch Analysis (Draft with 60%, Final with 100% deliverables)
- One (1) full-size, 11"x17" set of preliminary design plans in Adobe Acrobat(.PDF) format
- 60% PS&E Engineer's Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- 100% PS&E Engineer's Final Bid Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- List of additional or edited special provisions required from ODOT to be included in PBOT Standard Project Special Provisions (at 60%)
- 100% PS&E Final stamped Technical Specifications in Microsoft Word

Task 13.6 Traffic Design

Consultant shall prepare 60% plans, specifications, and construction cost estimates for the permanent signing and pavement markings associated with the proposed improvements.

Consultant shall update traffic control plans (including TPAR information) to incorporate additional work on Lombard and revise the TMP to incorporate those changes. Consultant shall update ODOT's work-zone decision tree. No presentation or update to ODOT MAC is included. The design must be completed in accordance with applicable MUTCD and ODOT standards.

Task 13.6 Deliverables/Schedule: Consultant shall provide to the ODOT:

- One (1) full-size, 11"x17" set of preliminary design plans in Adobe Acrobat(.PDF) format
- 60% PS&E Engineer's Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- 100% PS&E Engineer's Final Bid Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- List of additional or edited special provisions required from ODOT to be included in PBOT Standard Project Special Provisions (at 60%)
- 100% PS&E Final stamped Technical Specifications in Microsoft Word
- Updated TMP & ODOT Work Zone Decision Tree (Up to one revision)

Task 13.7 Erosion Control Design

Consultant shall prepare Erosion Control Plans. The Erosion Control Plans will include construction notes and details regarding the placement of items such as sediment barriers, drainage inlet protection, silt fences and seeding.

Task 13.7 Deliverables/Schedule: Consultant shall provide to the ODOT:

- One (1) full-size, 11"x17" set of preliminary design plans in Adobe Acrobat(.PDF) format
- 60% PS&E Engineer's Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- 100% PS&E Engineer's Final Bid Estimate with bid items and quantity take-offs in Microsoft Excel with narrative explaining assumptions and contingencies
- List of additional or edited special provisions required from ODOT to be included in PBOT Standard Project Special Provisions (at 60%)
- 100% PS&E Final stamped Technical Specifications in Microsoft Word

Task 13.8 Survey

Consultant shall provide a topographic survey along the entire frontage of tax lot 11800 at least 10-feet beyond the public right-of-way of Northeast Lombard Street and update the current topographic base map.

Task 13.8 Deliverables/Schedule: Consultant shall provide to the Agency:

- Update to existing Microstation basemap for PBOT project T00713

TASK 14 CONSTRUCTION PROJECT MANAGEMENT

Consultant shall provide the management, coordination, and direction to the Consultant Project Team throughout the Project. Consultant shall coordinate with PBOT Project Manager and staff throughout the project.

Task 14.1 Project Coordination

This activity is continuous throughout the duration of these CA/CEI Services. Consultant shall guide and direct the CA/CEI Services and Consultant's team in conformance with all applicable requirements of the CA/CEI Services and the Project's goals and objectives. Consultant shall monitor progress of the Project and CA/CEI Services, and provide coordination between the Owner, Agency, and other project stakeholders.

Task 14.1 Deliverables/Schedule: Consultant shall provide to the Agency:

- Continuous, on-going coordination and communication as needed to appropriately manage the CA/CEI Services
- Maintenance and records of coordination activities and decisions made, and copies of documentation to Agency Project Manager upon completion of project, or as requested through the duration of the project.

Task 14.2 Monthly Invoices and Progress Reports

Consultant shall prepare monthly billing invoices in a format approved by the Owner Contract Administrator. Consultant shall prepare and submit monthly invoices and progress reports to the Owner.

Task 14.2 Deliverables/Schedule: Consultant shall provide to the Owner

- Monthly progress reports detailing work completed and identifying any issues or concerns that may affect the CA/CEI Services and budget or the Project schedule and Project budget.

- Monthly invoices that reflect the project schedule and show the budgeted cost for each task, tasks completed/percent complete, actual cost/cost to date, earned value, billable hours per person per task, and cost of materials submitted within ten (10) days of month-end.

Task 14.3 Construction Meetings

Work with the Agency CED Supervising Engineer to schedule, develop and distribute agendas for, lead, and distribute meeting notes for the following meetings:

- **Pre-construction Agency staff roles and responsibilities meeting** (virtual via Teams/Zoom). *Note: This is the one meeting on this list that will be led by the Agency CED Supervising Engineer. Consultant Construction Manager shall attend and introduce themselves.*
- **Pre-construction meeting** with Agency staff and construction contractor (virtual via Teams/Zoom)
- **Pre-construction site visit** with Agency staff and construction contractor
- **Utility coordination meeting** prior to construction (including Bureau of Environmental Services, Portland Water Bureau, PGE/PP&L, NW Natural, CenturyLink, others as appropriate)
- **Additional (up to 4) meetings with individual utilities** as needed during construction
- **Weekly construction meetings** (virtual via Teams/Zoom, 30-90 minutes each, 60 minutes on average) covering the following topics:
 - Erosion control issues
 - Site security issues
 - Site safety, including addressing any incidents or near misses, and COVID-19 protocols
 - Traffic control
 - Contractor quality control / materials testing
 - Contractor current construction activities and three-week look-ahead
 - Contractor submittals and status
 - Staking requests
 - Other issues as appropriate

Task 14.3 Deliverables/Schedule: Consultant shall provide to the Owner:

- Meeting agendas and minutes distributed to the team. Agendas to be provided at least one (1) working day before the meeting. Minutes to be distributed within three (3) business days.

TASK 15.0 CONSTRUCTION SUPPORT

Task 15.1 Construction Manager

Agency requires a contracted Construction Manager for the full duration of the construction phase of the Project. Working with guidance of a PBOT Civil Engineering & Drafting (CED) Supervising Engineer, Consultant shall provide the following construction management services. Assumed level of effort includes a full-time manager for an approximate 78-week construction duration

Qualifications:

Consultant Construction Manager will have a bachelor's degree in Engineering, Construction Management or a related field and will be a Licensed Professional Engineer (PE), Certified Construction Manager (CCM), or Project Management Professional (PMP).

Consultant Construction Manager shall maintain the inspector certifications for each of the disciplines required on the project.

The following are the approved ODOT Inspector Certifications currently in place in the Inspection Quality Assurance Program:

- Certified Bridge Construction Inspector (“CBCI”)
- Certified Environmental Construction Inspector (“CECI”)
- Certified Traffic Signal Inspector (“CTSI”)
- Certified General Inspector (“CGI”)
- Certified Asphalt Concrete Pavement Inspector (“ACP”)
- Certified Drilled Shaft Inspector (“CDSI”)
- Certified ADA Inspector (“ADAI”)

Consultant shall provide the following Construction Management services:

- Lead project team coordinator.
- Facilitator between City and Contractor.
- Coordinate Tree Protection Inspections.
- Conduct and attend weekly project meetings, prepare agenda, take, and distribute minutes.
 - Distribute agenda digitally prior to each meeting
 - Distribute minutes within 5 days of project meeting
- Negotiate, prepare, and distribute contract change orders (CCO)
 - PBOT PM will provide final authorization and approval for all Contract Change Orders, design changes, or other contract modifications.
- Prepare and present design changes during construction.
- Review and approve submittals, payments, and inspectors’ daily reports.
- Respond to RFI’s and Clarifications.
- Prepare Written Orders.
- Track, document and facilitate the resolution of claims from start to finish.
- Coordinate, facilitate and resolve utility conflicts.
- Review contractor’s weekly erosion control reports.
- Meet with ODOT Region Assurance Specialist, QCS and Technician when scheduled, and coordinate the resolution of outstanding items.
- Address missing documentation in a timely manner (reporting and receiving).
- Monitor and approve all subcontracted work.
- Enforce accountability.
- Monitor DBE, OJT and EEO reporting requirements and enforce contract compliance.
- Coordinate, inspect, write, and deliver punch list.
- Coordinate, inspect final walk-thru and document.
- Collect the as-builts from contractor, and inspectors; signals, ODOT structures, etc.
- Create single as-built plan set after consideration of as-builts received from other parties stated above

Task 15.1 Deliverables/Schedule: Consultant shall provide to the Owner:

- Above listed reports and required documentation

Task 15.2 Construction Inspection

Qualifications:

Consultant Inspector will be certified in the discipline of the project that they are inspecting. Assumed level of effort includes two full-time inspectors for an approximate 78-week construction duration. The following are the approved ODOT Inspector Certifications currently in place in the Inspection Quality Assurance Program:

- Certified Bridge Construction Inspector (“CBCI”)
- Certified Environmental Construction Inspector (“CECI”)
- Certified Traffic Signal Inspector (“CTSI”)
- Certified General Inspector (“CGI”)
- Certified Asphalt Concrete Pavement Inspector (“ACP”)
- Certified Drilled Shaft Inspector (“CDSI”)
- Certified ADA Inspector (“ADAI”)

Consultant shall provide the following Construction Inspection services:

- Inspection of PBOT facilities according to the PBOT Inspection Manual
- Attend Weekly Meetings, turn in dailies and QC documents through RoadRunner
- Monitor and inspect all traffic control daily and note on daily report if applicable.
- Monitor safety at jobsite. Document and inform contractor and CM if concerns arise. Check all erosion control and pollution control daily
- Complete Daily Inspection Reports (DIR), daily and turn in right away to RoadRunner.
- Track all disputed work, extra work or changed work on PBOT Force Account Forms
- Complete Field Inspection Reports for all project related materials incorporated into project at the time of installation. Turn in with installation sheets.
- Complete installation sheets at time of install, keep an as-paid log of plan sheets. Installation sheets to Tech within 3 business days of cutoff.
- Perform employee interviews for all contractors. This in RoadRunner.
- Refer public complaints to CM.
- Prepare preconstruction photo-log to document existing conditions
- Take project photos daily with date/time stamp. Load into RoadRunner.
- Keep a record of As-Constructed conditions. Inspector turns in record copy at the completion of project via RoadRunner (folder 411). Also keep as-pays here.
- Coordinate inspections with SSL, PWB and BES inspectors.
- Review survey requests with CM and contractor and provide concurrence.
- Witness and document contractor QC testing.
- Inspect punch list with CM.
- Inspect final walk-thru with CM.
- Will be allowed to reject or stop work.
- Create as-builts and transmit to CM.

Task 15.2 Deliverables/Schedule: Consultant shall provide to the Owner

- Above listed reports and required documentation
- At a minimum, daily inspection reports uploaded daily and provided to project construction manager weekly for project filing

Task 15.3 Construction Administration

Assumed level of effort includes one construction administrator/technician half-time for an approximate 78-week construction duration. Consultant shall provide the following Construction Administration/Engineering Technician services:

- Responsible for reporting on, filing and distributing all quality documentation.
- Maintain up-to-date test summaries A and B.
- Prepare progress estimates in RoadRunner.
- Track, distribute and transmit submittals in RoadRunner.
- Report missing submittals or quality documents at weekly meetings.
- Attend weekly project meetings.
- Verify calculations, quantities, and sign off on all installation sheets.
- Maintain and upkeep project files (electrical and hard copy).
- Prepare closeout documents.
- Verify certified payrolls and labor compliance documentation.
- Review Subcontracts and prepare Report on Subcontractor's Request.
- Meet with CM, QCS and ODOT RAS during project reviews and assist in resolving all missing documentation.

Task 15.3 Deliverables/Schedule: Consultant shall provide to the Owner:

- Above listed reports and document control

Task 15.4 Punch List / Close-Out

- Work with construction contractor and Agency Project Team to develop punch list at substantial completion of construction.
- Schedule and attend two (2) walk-throughs with construction contractor and Agency construction staff, before and after completion of punch list items.
- Work with Agency CED Supervising Engineer to issue a notice of Substantial Completion.
- Oversee close out process, resolving all pay item quantities, verify punch list items are complete, and that contractor has met the requirements of the contract.

Task 15.4 Deliverables/Schedule: Consultant shall provide to the Owner:

- Maintenance of punch list items and resolution
- Bluebeam (.PDF) red-lined construction notes to serve as as-built documentation

Task 15.5 Dispute/Claim Resolution

- Work with Agency construction staff, Agency Project Manager, and construction contractor to review and resolve any claims filed by the contractor during or after construction.
- Participate in claim resolution process for an assumed single (1) claim, without involving legal support from either PBOT nor consultant agencies. Additional support for claims will require additional work order support.

Task 15.4 Deliverables/Schedule: Consultant shall provide to the Owner:

- Support for up to one (1) claim resolution excluding legal support

TASK 16.0 QUALITY COMPLIANCE

Consultant shall provide the following Quality Compliance services:

- Request and coordinate QA testing.
 - QA testing is assumed to be performed by PBOT or ODOT technicians.
- Review material submittals as requested by CM.
- Review QA/QC documents as a quality check.
- Assist Tech/Inspector with QA/QC requirements, review and monitor the books for completeness, provide guidance as necessary.
- Attend ODOT RAS review meetings; assist in resolving issues as assigned.
- Attend project meetings as necessary.
- Attend pre-paving conference.

Task 16.0 Deliverables/Schedule: Consultant shall provide to the Owner

- Above listed reports and quality control documentation

TASK 17.0 CONSTRUCTION SURVEY QUALITY ASSURANCE

Consultant shall provide Quality Assurance Survey services as follows:

Consultant's licensed Land Surveyor shall provide land surveying Services and deliverables that conform to all state statutes pertaining to survey and land boundary laws. These include, but are not limited to, the following Oregon Revised Statutes (ORS):

- ORS Chapter 92 - Subdivisions and Partitions
- ORS Chapter 93 - Conveyancing and Recording
- ORS Chapter 209 - County Surveyors
- ORS Chapter 672 - Professional Engineers; Land Surveyors; Photogrammetrists; Geologists

Consultant's survey personnel shall perform all construction surveying tasks in accordance with the most recent version of the [ODOT Construction Surveying Manual for Contractors](#), as required to ensure conformance of the Project construction with the approved plans and specifications. Consultant shall provide qualified personnel to verify the Project is constructed to the lines and grades as shown, specified, or established.

Task 17.1 Coordination, Calculations and Quality Assurance (QA) of Construction Contractor's Survey Work

Consultant shall:

- Coordinate with CM and Construction Contractor (CC) as needed to require compliance with and verify that the construction survey work completed by the CC for the Project is in conformance with the approved plans, specifications, and applicable laws.
- Attend and participate in a pre-survey meeting
- Coordinate with CC, CM, and PM to determine participants and to schedule the pre-survey meetings at an agreed-upon time no later than 14 calendar days prior to beginning construction.
- Prepare and distribute the meeting agenda to PM and other participants at least 4 business days prior to meeting.
- Prepare and distribute the meeting minutes to PM and other participants within 1 week of meeting.

- Perform QA review of CC's survey data such as, but not limited to, office calculations and stake-out information.
- Provide memo indicating dates and times grade calculation checks were performed and the results of the calculation checks along with copy of notification to CC on items not in compliance from calculation checks and when/what corrections were made.
- Perform QA review of CC's field survey work. Provide memo indicating dates and times the survey field checks of CC's survey work were performed and the results of the field checks along with copy of notification to CC on items not in compliance with approved construction plans and when/what corrections were made.
- Provide a map, digital ASCII file of the coordinates, and field notes as applicable, of horizontal and vertical control points (from the construction contract plans) for use by the CC's surveyor.
- Prepare horizontal and vertical alignment print outs, construction grade data, including annotated cross sections (from the construction contract plans) for use by the CC's surveyor.

Task 17.1 *Deliverables/Schedule:* Consultant shall provide to the Owner

- Pre-survey meeting agenda – Submit 1 copy to each conference attendee and the PM 4 business days prior to the scheduled meeting. Pre-survey meeting minutes – 1 copy to each meeting attendee and the PM within 1 week after the meeting.
- Memo regarding grade calculation checks – Submit via email to CC with copy to PM within 5 business days of receipt of survey data from CC.
- Memo regarding survey field checks – Submit via email to CC with copy to PM within 5 business days of request.
- Map, digital ASCII file of the coordinates and field notes as applicable, of horizontal and vertical control points – Submit original to CC at the pre-construction or pre-survey meeting.
- Horizontal and vertical alignment print outs, construction grade data, including annotated cross sections – Submit original to CC at the pre-construction or pre-survey meeting.

Task 17.2 Locate, Recover and Reference Monuments

Consultant shall recover and reference monuments (as indicated below) in the location of the ROW identified in the control, recovery and retracement survey. Consultant shall document in field notes the monuments either found, or not found during the search phase. Consultant shall ensure compliance with the requirements of ORS 209.155.

For all monuments not destroyed during construction activities, Consultant shall note in the field notes that:

- All monuments were recovered (include date),
- All monuments exist per the control, recovery and retracement survey, or
- All monuments are within the new ROW and do not need to be reset.

The monuments may or may not be retied to confirm their original surveyed positions. This decision will be made based on Consultant surveyor's professional judgment.

Consultant shall:

- Recover monuments shown on the control, recovery and retracement survey to confirm they either still exist or were destroyed during construction. Consultant shall note destroyed monuments that are within the Project limits.

- Locate and recover any new monumentation within the Project work zone which were placed after the original field search and survey ties, which may include research of county records as appropriate. Agency may provide monuments tied prior to construction not filed with the control, recovery and retracement survey.
- Use Agency point number range for control points and monuments.

Task 17.2 Deliverables/Schedule: Consultant shall provide:

- ASCII File of located monuments with monument point numbers and coordinates and any other electronic files (such as .fwd, .alg, ASCII, etc.) created or produced for the Project documenting Monumentation surveying - Submit within 14 calendar days after recording of the survey filing map (SFM) with the appropriate County Surveyor's office.
- Original field notes and 1 electronic .pdf copy - Submit within 14 calendar days after recording of the SFM with the appropriate County Surveyor's office.

Task 17.3 Right of Way ("ROW") Monumentation

Consultant shall document the location of the ROW lines at the completion of the Project construction. Consultant shall preserve the location of the monuments found prior to construction and shall document the ROW lines for all property acquired for the Project.

Unless otherwise approved by the Agency, Consultant shall monument the new ROW using the Boundary Method in conformance with the [ODOT Monumentation Policy](#) and the [Survey Filing Map Standards](#) (available at <http://cms.oregon.gov/ODOT/HWY/GEOMETRONICS/Pages/documents.aspx>). Consultant may be assigned the method of monumentation, which could be the Network Method, Boundary Method, or a combination of both methods which are defined in the [ODOT Monumentation Policy](#).

Consultant shall set control and ROW monuments, as applicable, within 60 calendar days after issuance of Second Notification.

Task 17.3 Deliverables/Schedule: Consultant shall provide:

- Bentley MicroStation.dgn file displaying the control and monuments as applicable – Submit within 14 calendar days after recording of the SFM with the County Surveyor's office.
- Bentley Inroads.alg(s) file with centerline(s), control and monument data, and report of alignment(s) showing coordinates, bearing, stations, etc., per Bentley Inroads standard reports – Submit within 14 calendar days after recording of the SFM with the County Surveyor's office.
- Final report of monument station and offset relationship to the alignment(s) – Submit within 14 calendar days after recording of the SFM with the appropriate County Surveyor's office.
- Agency ROW files and copies of all deeds, court judgments, etc., from the County – Submit within 14 calendar days after recording of the SFM with the County Surveyor's office.
- Original field notes and 1 copy in .pdf format – Submit within 14 calendar days after recording of the SFM with the County Surveyor's office.
- Final ASCII file of all control and monument points set – Submit within 14 calendar days after recording of the SFM with the County Surveyor's office.

Task 17.4 Monumentation Survey Filing Map (SFM)

Consultant shall create SFM in accordance with Agency Survey Filing Map Standards, County and ORS 209 requirements. Consultant shall ensure preservation of existing survey markers in conformance with Chapter 6.2 of the [ODOT Construction Survey Manual for Contractors](#).

Consultant shall monument any newly acquired ROW in accordance with [Survey Filing Map Standards for Right of Way Monumentation](#).

Consultant shall submit the survey to the appropriate county for filing on archival Mylar or acceptable media per county requirements.

Task 17.4 Deliverables/Schedule: Consultant shall provide:

- SFM – File at the appropriate County Surveyor's office within 45 calendar days after setting monuments.
- Submit the deliverables below to Owner PM (required for projects on or connected to an ODOT facility).
- Final recorded SFM and narrative regarding methodologies used – Submit within 14 calendar days after recording of the SFM with the appropriate County Surveyor's office.