

ADDENDUM #1

To the Construction Contract Specifications and Bid Documents for

CITY OF FIFE

Interstate 5 Port of Tacoma Road Interchange – Phase 1

Federal Aid No. STPUL-9927(056)

To the attention of all bidders for the above project:

The following additions, revisions, and/or modifications are made to the Construction Contract Specifications and Bid Documents for this project.

Item No. 1 – Bid Documents – Pages 8 through 26

Replace the Item Proposal Bid Sheet on pages 8 through 26 with the revised Item Proposal Bid Sheet attached to this addendum. The following Bid Items have been added to the Bid Proposal:

- A157 ROADWAY SURVEYING, 1 L.S.
- A158 STRUCTURE SURVEYING, 1 L.S.
- B165 ADA FEATURES SURVEYING, 1 L.S.
- B166 ROADWAY SURVEYING, 1 L.S.
- B166 STRUCTURE SURVEYING, 1 L.S.
- C44 ADA FEATURES SURVEYING, 1 L.S.
- C45 ROADWAY SURVEYING, 1 L.S.
- D24 ROADWAY SURVEYING, 1 L.S.
- E6 ROADWAY SURVEYING, 1 L.S.
- F46 ROADWAY SURVEYING, 1 L.S.

Item No. 2 – Special Provisions to the Standard Specification Section 1-05.14– Pages 25

Add the following project to the list contained in “Other Contracts Or Other Work”:

- Pacific Highway Puyallup River Bridge Replacement (SR 99 or Puyallup Ave., will be closed for approximately twelve months starting June 1, 2018).

Item No. 3 – Special Provisions to the Standard Specification Section 1-07.11– Pages 48

Revise the fill in for the UDBE COA Goal to 8%.

Item No. 4 – Special Provisions to the Standard Specification Section 6-13 – Pages 126 to 131

Replace Section 6-13 with the attached new General Special Provisions from January 2, 2018.

This ADDENDUM is to be considered as much a part of the construction contract specifications and bid documents as if it were included in the original construction contract specifications and bid documents. All bidders shall acknowledge receipt of this ADDENDUM on the proposal form prior to bid opening.

James S. Guarre, P.E, S.E.
BergerABAM
33301 9th Ave. South, Suite 300
Federal Way, WA 98003

PROPOSAL

To: City of Fife

¹ Pursuant to and in compliance with your Advertisement for Bids and the other documents relating thereto, the undersigned Bidder, having familiarized himself with the terms of the project related to those items herein bid, being aware of the local conditions affecting the performance of a Contract covering the items bid, having knowledge of the cost of the work at the place where the work is to be done and having familiarized himself with the Contract Documents, hereby proposes and agrees to perform the work and/or to furnish the equipment, any or all of the labor, materials, tools, expendable equipment and all utility and transportation services necessary to perform a Contract covering any or all of those items herein bid and to complete in a workmanlike manner all work covered by said Contract in connection with the Owner's Interstate 5 Port of Tacoma Road Interchange - Phase 1, for the amounts stated below.

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 1	MOBILIZATION	L.S.	1		
A 2	CLEARING AND GRUBBING	ACRE	1.1		
A 3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	1		
A 4	REMOVING CEMENT CONC. SIDEWALK	S.Y.	1,708		
A 5	REMOVING CEMENT CONC. CURB	L.F.	846		
A 6	REMOVING ASPHALT CONC. PAVEMENT	S.Y.	1,164		
A 7	REMOVING ASPHALT CONC. SIDEWALK	S.Y.	64		
A 8	REMOVING CONC. BARRIER	L.F.	545		
A 9	REMOVING GUARDRAIL	L.F.	163		
A 10	REMOVING PAINT LINE	L.F.	4,542		
A 11	REMOVING PAINTED TRAFFIC MARKING	EACH	8		
A 12	REMOVING RAISED PAVEMENT MARKER	HUND	1		
A 13	REMOVING CHAIN LINK FENCE	L.F.	1,141		
A 14	REMOVING TRAFFIC SIGNAL SHAFT OBSTRUCTIONS	EST.	1	\$ 2,900	\$ 2,900
A 15	REMOVING SIGN STRUCTURE SHAFT OBSTRUCTIONS	EST.	1	\$ 7,600	\$ 7,600
A 16	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	1	\$142,500	\$ 142,500
A 17	REMOVING SOLDIER PILE SHAFT OBSTRUCTIONS	EST.	1	\$ 2,400	\$ 2,400
A 18	CONTAMINATED DEWATERING TREATMENT AND DISCHARGE	EST.	1	\$ 95,000	\$ 9,500
A 19	DEWATERING	L.S.	1		
A 20	ROADWAY EXCAVATION INCL. HAUL	C.Y.	13,446		
A 21	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	C.Y.	300		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 22	GRAVEL BORROW INCL. HAUL	C.Y.	2,847		
A 23	DITCH EXCAVATION INCL. HAUL	C.Y.	399		
A 24	CONNECT TO EXISTING PIPE 6 IN. DIAM.	EACH	1		
A 25	CONNECT TO EXISTING PIPE 8 IN. DIAM.	EACH	1		
A 26	CONNECT TO EXISTING PIPE 12 IN. DIAM.	EACH	6		
A 27	CATCH BASIN TYPE 1	EACH	16		
A 28	CATCH BASIN TYPE 1L	EACH	17		
A 29	CATCH BASIN TYPE 2 48 IN. DIAM.	EACH	5		
A 30	CATCH BASIN TYPE 2 60 IN. DIAM.	EACH	2		
A 31	TESTING STORM SEWER PIPE	L.F.	2,584		
A 32	CL. IV REINF. CONC. STORM SEWER PIPE 6 IN. DIAM.	L.F.	8		
A 33	CL. IV REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	L.F.	599		
A 34	CL. IV REINF. CONC. STORM SEWER PIPE 18 IN. DIAM.	L.F.	1,055		
A 35	CL. V REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	L.F.	26		
A 36	SCHEDULE A STORM SEWER PIPE 6 IN. DIAM.	L.F.	54		
A 37	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	L.F.	299		
A 38	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	L.F.	201		
A 39	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	L.F.	106		
A 40	SCHEDULE A STORM SEWER PIPE 30 IN. DIAM.	L.F.	236		
A 41	SANITARY SEWER CROSSING AT STORM SEWER CATCH BASIN	EACH	1		
A 42	STRUCTURE EXCAVATION CLASS A INCL. HAUL	C.Y.	700		
A 43	SHAFT - 24 IN. DIAMETER	L.F.	192		
A 44	SHAFT - 30 IN. DIAMETER	L.F.	254		
A 45	FURNISHING SOLDIER PILE - W18X97	L.F.	102		
A 46	FURNISHING SOLDIER PILE - W18X50	L.F.	147		
A 47	FURNISHING SOLDIER PILE - W12X40	L.F.	192		
A 48	LAGGING	S.F.	1,771		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 49	PREFABRICATED DRAINAGE MAT	S.Y.	36		
A 50	CONCRETE FASCIA PANEL	S.F.	3,602		
A 51	STRUCTURAL EARTH WALL	S.F.	3,009		
A 52	CONCRETE SLAB OVER VAULT	L.S.	1		
A 53	CRUSHED SURFACING BASE COURSE	TON	5,205		
A 54	CRUSHED SURFACING TOP COURSE	TON	161		
A 55	PERMEABLE BALLAST	TON	12,000		
A 56	COMPACT EXISTING AGGREGATE	S.Y.	420		
A 57	GEOGRID	S.Y.	7,802		
A 58	CEMENT CONC. PAVEMENT	C.Y.	28		
A 59	PLANING BITUMINOUS PAVEMENT	S.Y.	446		
A 60	HMA FOR PAVEMENT REPAIR CL. 1/2 IN. PG	TON	1		
A 61	HMA CL. 1/2 IN. PG 58v-22	TON	5,360		
A 62	ASPHALT COST PRICE ADJUSTMENT	CALC	1		
A 63	HMA SAWCUT AND SEAL	L.F.	3,144		
A 64	IRRIGATION SYSTEM	L.S.	1		
A 65	ESC LEAD	DAY	472		
A 66	SEEDING, FERTILIZING, AND MULCHING	ACRE	0.23		
A 67	COMPOST BLANKET	S.Y.	19.0		
A 68	LAWN MOWING	S.Y.	25,000		
A 69	PLASTIC COVERING	S.Y.	360		
A 70	STREET CLEANING	HR	300		
A 71	INLET PROTECTION	EACH	50		
A 72	OUTLET PROTECTION	EACH	1		
A 73	MEDIUM COMPOST	ACRE	0.1		
A 74	EROSION/WATER POLLUTION CONTROL	EST.	1	\$114,000	\$ 114,000
A 75	COMPOST SOCK	L.F.	511		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 76	PSIPE ACER RUBRUM 'ARMSTRONG' / ARMSTRONG RED MAPLE, 2 IN.	EACH	50		
A 77	PSIPE GINKO BILOBA 'PRINCETON SENTRY', PRINCETON SENTRY GINKGO, 2 IN.	EACH	30		
A 78	PSIPE CORNUS SERICEA 'KELSEYI', 2 GAL.	EACH	22		
A 79	PSIPE FESTUCA OVINA GLAUCA 'ELIJAH BLUE', BLUE FESCUE	EACH	327		
A 80	SEEDED LAWN INSTALLATION	S.Y.	1,153		
A 81	BARK OR WOOD CHIP MULCH	ACRE	0.02		
A 82	TOPSOIL TYPE A	C.Y.	490.00		
A 83	TOPSOIL TYPE B	C.Y.	67		
A 84	COMPOST BLANKET IN BIOSWALE	S.Y.	19		
A 85	CEMENT CONC. TRAFFIC CURB AND GUTTER	L.F.	3,600		
A 86	CEMENT CONC. PEDESTRIAN CURB	L.F.	460		
A 87	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	EACH	2		
A 88	BEAM GUARDRAIL TYPE 31	L.F.	520		
A 89	TEMPORARY BARRIER	L.F.	350		
A 90	PAINT LINE	L.F.	5,068		
A 91	PLASTIC LINE	L.F.	3,078		
A 92	PLASTIC CROSSHATCH MARKING	L.F.	52		
A 93	PLASTIC WIDE LANE LINE	L.F.	1,172		
A 94	FLEXIBLE GUIDE POST	EACH	3		
A 95	PLASTIC TRAFFIC ARROW	EACH	35		
A 96	PROFILED PLASTIC WIDE LANE LINE	L.F.	110		
A 97	PLASTIC CROSSWALK LINE	S.F.	2,008		
A 98	PLASTIC STOP LINE	L.F.	395		
A 99	PEDESTRIAN TRAFFIC CONTROL	L.S.	1		
A 100	RAISED PAVEMENT MARKER TYPE 2	HUND	152		
A 101	PERMANENT SIGNING	L.S.	1		
A 102	TEMPORARY PAVEMENT MARKING-LONG DURATION	L.F.	11,100		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 103	SIGN BRIDGE NO. 2	L.S.	1		
A 104	ILLUMINATION SYSTEM	L.S.	1		
A 105	TRAFFIC SIGNAL SYSTEM COMPLETE, 34TH AVE. E / PACIFIC HWY	L.S.	1		
A 106	SEQUENTIAL ARROW SIGN	HR	64		
A 107	OTHER TEMPORARY TRAFFIC CONTROL	L.S.	1		
A 108	TRAFFIC CONTROL SUPERVISOR	L.S.	1		
A 109	FLAGGERS	HR	500		
A 110	CONSTRUCTION SIGNS CLASS A	S.F.	480		
A 111	OTHER TRAFFIC CONTROL LABOR	HR	100		
A 112	PORTABLE CHANGEABLE MESSAGE SIGN	HR	1,600		
A 113	CHAIN LINK FENCE TYPE 4	L.F.	584		
A 114	TEMPORARY IMPACT ATTENUATOR	EACH	6		
A 115	PERMANENT IMPACT ATTENUATOR	EACH	2		
A 116	RESETTING IMPACT ATTENUATOR	EACH	2		
A 117	TRANSPORTABLE ATTENUATOR	EACH	1		
A 118	OPERATION OF TRANSPORTABLE ATTENUATOR	HR	750		
A 119	REPAIR TRANSPORTABLE ATTENUATOR	EST.	1	\$ 8,600	\$ 8,600
A 120	PLASTIC YIELD LINE SYMBOL	EACH	11		
A 121	TRAFFIC SIGNAL INTERCONNECT SYSTEM COMPLETE	L.S.	1		
A 122	TEMPORARY CONC. BARRIER TYPE 2 WITH SCUPPER	L.F.	1,100		
A 123	TEMPORARY TYPE 2 BARRIER WITH FENCE	L.F.	102		
A 124	OFF-DUTY UNIFORMED POLICE OFFICER	EST.	1	\$ 5,000	\$ 5,000
A 125	ADJUST CATCH BASIN	EACH	8		
A 126	LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	EACH	7		
A 127	TYPE B PROGRESS SCHEDULE	L.S.	1		
A 128	STRUCTURE EXCAVATION CLASS B INCL. HAUL	C.Y.	2,300		
A 129	SHORING OR EXTRA EXCAVATION CLASS B	S.F.	10,500		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 130	GRAVEL BACKFILL FOR DRAIN	C.Y.	57		
A 131	PLUGGING EXISTING PIPE	EACH	3		
A 132	CLEANING EXISTING DRAINAGE STRUCTURE	L.S.	1		
A 133	SPCC PLAN	L.S.	1		
A 134	DETECTABLE WARNING SURFACE	S.F.	56		
A 135	CEMENT CONC. SIDEWALK	S.Y.	1,570		
A 136	CEMENT CONC. CURB RAMP TYPE COMBINATION	EACH	8		
A 137	CEMENT CONC. CURB RAMP TYPE PARALLEL A	EACH	4		
A 138	CEMENT CONC. CURB RAMP TYPE PERPENDICULAR A	EACH	3		
A 139	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1	S.Y.	275		
A 140	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 3	S.Y.	435		
A 141	CABLE FENCE	L.F.	422		
A 142	GRAVITY BLOCK WALL	S.F.	760		
A 143	TRAINING	HR	200		
A 144	ROADSIDE CLEANUP	EST.	1	\$ 33,300	\$ 33,300
A 145	GEOSYNTHETIC RETAINING WALL	S.F.	2,329		
A 146	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	C.Y.	1,660		
A 147	HEALTH AND SAFETY PLAN	L.S.	1		
A 148	FA-SITE CLEANUP OF BIO. AND PHYSICAL HAZARDS	EST.	1	\$ 4,800	\$ 4,800
A 149	MINOR CHANGE	CALC	1		
A 150	CONNECTION TO DRAINAGE STRUCTURE	EACH	5		
A 151	FLOW SPLITTER	EACH	1		
A 152	GEOSYNTHETIC CLAY LINER	S.Y.	193		
A 153	LEVEL SPREADER	L.F.	20		
A 154	ADA FEATURES SURVEYING	L.S.	1		
A 155	RECORD DRAWINGS	L.S.	1		
A 156	FIBER OPTIC CABLE MARKER	EACH	4		
A 157	ROADWAY SURVEYING	L.S.	1		

BID SCHEDULE A - CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
A 158	STRUCTURE SURVEYING	L.S.	1		
TOTAL BID SCHEDULE A:					

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 1	MOBILIZATION	L.S.	1		
B 2	CLEARING AND GRUBBING	ACRE	10.0		
B 3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	1		
B 4	REMOVING CEMENT CONC. CURB	L.F.	834		
B 5	REMOVING ASPHALT CONC. PAVEMENT	S.Y.	14,000		
B 6	REMOVING GUARDRAIL	L.F.	148		
B 7	REMOVING PAINT LINE	L.F.	1,163		
B 8	REMOVING PAINTED TRAFFIC MARKING	EACH	4		
B 9	REMOVING RAISED PAVEMENT MARKER	HUND	0.5		
B 10	REMOVING CHAIN LINK FENCE	L.F.	1,870		
B 11	REMOVING TRAFFIC SIGNAL SHAFT OBSTRUCTIONS	EST.	1	\$ 4,800	\$ 4,800
B 12	REMOVING SIGN STRUCTURE SHAFT OBSTRUCTIONS	EST.	1	\$ 9,700	\$ 9,700
B 13	HAZARDOUS MATERIAL HANDLING AND DISPOSAL	EST.	1	\$ 47,500	\$ 47,500
B 14	REMOVING CONC. ISLAND	S.Y.	155		
B 15	CONSTRUCTION ACCESS STABILIZATION	L.S.	1		
B 16	DEWATERING	L.S.	1		
B 17	ROADWAY EXCAVATION INCL. HAUL	C.Y.	2,858		
B 18	UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL	C.Y.	400		
B 19	GRAVEL BORROW INCL. HAUL	C.Y.	97,069		
B 20	SETTLEMENT DEVICE INSTALLATION AND SURVEY	L.S.	1		
B 21	DITCH EXCAVATION INCL. HAUL	C.Y.	4,500		
B 22	FRAME AND VANED GRATES FOR GRATE INLET TYPE 2	EACH	4		
B 23	GRATE INLET TYPE 2	EACH	4		
B 24	DROP INLET TYPE 2	EACH	2		
B 25	CORRUGATED POLYETHYLENE CULV. PIPE 24 IN. DIAM.	L.F.	95		
B 26	CORRUGATED POLYETHYLENE CULV. PIPE 36 IN. DIAM.	L.F.	229		
B 27	HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 12 IN. DIAM.	L.F.	105		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 28	HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 24 IN. DIAM.	L.F.	148		
B 29	HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 36 IN. DIAM.	LF	72		
B 30	ST. REINF. BAR FOR END WALL	LB.	7,700		
B 31	CONC. CLASS 4000 FOR END WALL	C.Y.	72		
B 32	CONNECT TO EXISTING PIPE 12 IN. DIAM.	EACH	5		
B 33	CONNECT TO EXISTING PIPE 18 IN. DIAM.	EACH	3		
B 34	CONNECT TO EXISTING PIPE 24 IN. DIAM.	EACH	3		
B 35	CONNECT TO EXISTING CULVERT 36 IN.	EACH	1		
B 36	CORRUGATED POLYETHYLENE CULV. PIPE 48 IN. DIAM.	L.F.	1,221		
B 37	WELDED STEEL CULVERT PIPE 60 INCH DIAMETER	L.F.	132		
B 38	CATCH BASIN TYPE 1	EACH	27		
B 39	CATCH BASIN TYPE 1L	EACH	14		
B 40	CATCH BASIN TYPE 2 84 IN. DIAM.	EACH	5		
B 41	CATCH BASIN TYPE 2 48 IN. DIAM.	EACH	18		
B 42	CATCH BASIN TYPE 2 72 IN. DIAM.	EACH	2		
B 43	CATCH BASIN TYPE 2 96 IN. DIAM.	EACH	2		
B 44	CATCH BASIN TYPE 2 60 IN. DIAM.	EACH	4		
B 45	TESTING STORM SEWER PIPE	L.F.	7,550		
B 46	CL. IV REINF. CONC. STORM SEWER PIPE 12 IN. DIAM.	L.F.	744		
B 47	CL. IV REINF. CONC. STORM SEWER PIPE 18 IN. DIAM.	L.F.	587		
B 48	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	L.F.	2,687		
B 49	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	L.F.	1,231		
B 50	SCHEDULE A STORM SEWER PIPE 24 IN. DIAM.	L.F.	29		
B 51	SCHEDULE A STORM SEWER PIPE 36 IN. DIAM.	L.F.	149		
B 52	SCHEDULE A STORM SEWER PIPE 48 IN. DIAM.	L.F.	121		
B 53	STRUCTURE EXCAVATION CLASS A INCL. HAUL	C.Y.	600		
B 54	CONC. CLASS 4000 FOR RETAINING WALL	C.Y.	81		
B 55	ST. REINF. BAR FOR RETAINING WALL	LB.	8,300		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 56	PRECAST REINF. CONC. THREE SIDED STRUCTURE NO. 1	L.S.	1		
B 57	CONCRETE FASCIA PANEL	S.F.	9,842		
B 58	GROUND IMPROVEMENTS	L.S.	1		
B 59	CRUSHED SURFACING BASE COURSE	TON	11,751		
B 60	GEOGRID	S.Y.	405		
B 61	PLANING BITUMINOUS PAVEMENT	S.Y.	2,295		
B 62	HMA CL. 1/2 IN. PG 58v-22	TON	14,094		
B 63	JOB MIX COMPLIANCE PRICE ADJUSTMENT	CALC	1		
B 64	COMPACTION PRICE ADJUSTMENT	CALC	1		
B 65	ASPHALT COST PRICE ADJUSTMENT	CALC	1		
B 66	HMA SAWCUT AND SEAL	L.F.	2,480		
B 67	TEMPORARY IRRIGATION SYSTEM	L.S.	1		
B 68	SILT FENCE	L.F.	6,300		
B 69	SEEDING, FERTILIZING, AND MULCHING	ACRE	8		
B 70	COMPOST BLANKET	S.Y.	26		
B 71	CHECK DAM	L.F.	5		
B 72	PLASTIC COVERING	S.Y.	6,650		
B 73	STABILIZED CONSTRUCTION ENTRANCE	S.Y.	2,250		
B 74	INLET PROTECTION	EACH	10		
B 75	STREET CLEANING	HR	300		
B 76	TEMPORARY CURB	L.F.	65		
B 77	OUTLET PROTECTION	EACH	3		
B 78	WATTLE	L.F.	660		
B 79	MEDIUM COMPOST	ACRE	1.4		
B 80	EROSION/WATER POLLUTION CONTROL	EST.	1	\$237,500	\$ 237,500
B 81	TEMPORARY SEEDING	ACRE	9.4		
B 82	COMPOST SOCK	L.F.	4,887		
B 83	PSIPE ACER CIRCINATUM, VINE MAPLE, 5 GAL.	EACH	54		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 84	PSIPE ACER RUBRUM 'KARPICK', KARPICK RED MAPLE, 15 GAL.	EACH	11		
B 85	PSIPE FRAXINUS LATIFOLIA, OREGON ASH, 15 GAL.	EACH	21		
B 86	PSIPE MALUS FUSCA, OREGON CRABAPPLE, 5 GAL.	EACH	7		
B 87	PSIPE PICEA SITCHENSIS, SITKA SPRUCE, 15 GAL.	EACH	22		
B 88	PSIPE PINUS CONTORTA, SHORE PINE, 15 GAL.	EACH	22		
B 89	PSIPE PSEUDOTSUGA MENZIESII, DOUGLAS FIR, 15 GAL.	EACH	22		
B 90	PSIPE RHAMNUS PURSHIANA, CASCARA, 5 GAL.	EACH	22		
B 91	PSIPE THUJA PLICATA, WESTER RED CEDAR, 5 GAL.	EACH	22		
B 92	HIGH VISIBILITY FENCE	L.F.	500		
B 93	HIGH VISIBILITY SILT FENCE	L.F.	13,000		
B 94	TEMPORARY PIPE SLOPE DRAIN	L.F.	220		
B 95	TOPSOIL TYPE A	C.Y.	7,750		
B 96	TOPSOIL TYPE B	C.Y.	170		
B 97	CEMENT CONC. TRAFFIC CURB AND GUTTER	L.F.	500		
B 98	CEMENT CONC. PEDESTRIAN CURB	L.F.	32		
B 99	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	EACH	2		
B 100	EXTRUDED CURB TYPE 3	L.F.	430		
B 101	EXTRUDED CURB TYPE 6	L.F.	770		
B 102	BEAM GUARDRAIL TYPE 31	L.F.	700		
B 103	SINGLE SLOPE CONCRETE BARRIER	L.F.	5,520		
B 104	SINGLE SLOPE CONC. BARRIER LIGHT STANDARD FOUNDATION	EACH	6		
B 105	PRECAST CONC. BARRIER TYPE 2	L.F.	1,620		
B 106	PAINT LINE	L.F.	1,276		
B 107	PROFILED PLASTIC LINE	L.F.	1,175		
B 108	PLASTIC CROSSHATCH MARKING	L.F.	100		
B 109	BARRIER DELINEATOR	EACH	143		
B 110	FLEXIBLE GUIDE POST	EACH	11		
B 111	PLASTIC TRAFFIC ARROW	EACH	29		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 112	PROFILED PLASTIC WIDE LANE LINE	L.F.	1,461		
B 113	PLASTIC STOP LINE	L.F.	146		
B 114	RAISED PAVEMENT MARKER TYPE 2	HUND	226		
B 115	PERMANENT SIGNING	L.S.	1		
B 116	TEMPORARY PAVEMENT MARKING-LONG DURATION	L.F.	26,088		
B 117	SIGN BRIDGE NO. 1	L.S.	1		
B 118	CANTILEVER SIGN STRUCTURE NO. 1	L.S.	1		
B 119	ILLUMINATION SYSTEM	L.S.	1		
B 120	FLAGGERS	HR	10,500		
B 121	TRAFFIC SIGNAL SYSTEM COMPLETE, I-5 SOUTHBOUND ON-RAMP METER	L.S.	1		
B 122	TRAFFIC SIGNAL SYSTEM COMPLETE, I-5 SOUTHBOUND ON-RAMP / PORT OF TACOMA RD	L.S.	1		
B 123	TRAFFIC SIGNAL SYSTEM COMPLETE, I-5 SOUTHBOUND OFF-RAMP / 34TH AVE E	L.S.	1		
B 124	SEQUENTIAL ARROW SIGN	HR	8		
B 125	OTHER TEMPORARY TRAFFIC CONTROL	L.S.	1		
B 126	TRAFFIC CONTROL SUPERVISOR	L.S.	1		
B 127	CONSTRUCTION SIGNS CLASS A	S.F.	424		
B 128	OTHER TRAFFIC CONTROL LABOR	HR	225		
B 129	PORTABLE CHANGEABLE MESSAGE SIGN	HR	17,500		
B 130	TEMPORARY IMPACT ATTENUATOR	EACH	6		
B 131	PERMANENT IMPACT ATTENUATOR	EACH	2		
B 132	RESETTING IMPACT ATTENUATOR	EACH	3		
B 133	TRAFFIC SIGNAL INTERCONNECT SYSTEM COMPLETE	L.S.	1		
B 134	TEMPORARY CONCRETE BARRIER	L.F.	1,649		
B 135	TEMPORARY CONC. BARRIER TYPE 2 WITH SCUPPER	L.F.	5,761		
B 136	RECESSED GROOVED PLASTIC LINE	L.F.	10,424		
B 137	OFF-DUTY UNIFORMED POLICE OFFICER	EST.	1	\$ 5,000	\$ 5,000
B 138	LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	EACH	24		
B 139	TYPE B PROGRESS SCHEDULE	L.S.	1		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
B 140	STRUCTURE EXCAVATION CLASS B INCL. HAUL	C.Y.	8,150		
B 141	SHORING OR EXTRA EXCAVATION CLASS B	S.F.	23,884		
B 142	GRAVEL BACKFILL FOR DRAIN	C.Y.	123		
B 143	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	C.Y.	470		
B 144	CEMENT CONC. CURB RAMP TYPE SINGLE DIRECTION A	EACH	1		
B 145	CABLE FENCE	L.F.	782		
B 146	CHAIN LINK FENCE TYPE 4	L.F.	58		
B 147	CLEANING EXISTING DRAINAGE STRUCTURE	L.S.	1		
B 148	TRAINING	HR	1,200		
B 149	CONSTRUCTION GEOTEXTILE FOR DITCH LINING	S.Y.	6,650		
B 150	GEOSYNTHETIC RETAINING WALL	S.F.	8,812		
B 151	GRAVEL BORROW FOR STRUCTURAL EARTH WALL INCL. HAUL	C.Y.	6,988		
B 152	MINOR CHANGE	CALC	1		
B 153	AGGREGATE COMPLIANCE PRICE ADJUSTMENT	CALC	1		
B 154	SPCC PLAN	L.S.	1		
B 155	FLOW SPLITTER	EACH	1		
B 156	MEDIA FILTER DRAIN	L.F.	719		
B 157	TEMPORARY GRAVITY BLOCK WALL	S.F.	12,100		
B 158	WELL INSTALLATION AND GROUNDWATER MONITORING	L.S.	1		
B 159	DECOMMISSION MONITORING WELL	EACH	5		
B 160	FIBER OPTIC CABLE MARKER	EACH	6		
B 161	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	L.S.	1		
B 162	QUARRY SPALLS	TON	46		
B 163	CONSTRUCTION GEOTEXTILE FOR SEPARATION	S.Y.	5,570		
B 164	RECORD DRAWINGS	L.S.	1		
B 165	ADA FEATURES SURVEYING	L.S.	1		
B 166	ROADWAY SURVEYING	L.S.	1		
B 167	STRUCTURE SURVEYING	L.S.	1		

BID SCHEDULE B - WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
TOTAL BID SCHEDULE B:					

BID SCHEDULE C - CITY OF TACOMA					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
C 1	MOBILIZATION	L.S.	1		
C 2	CLEARING AND GRUBBING	ACRE	0.1		
C 3	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	1		
C 4	REMOVING CEMENT CONC. SIDEWALK	S.Y.	80		
C 5	REMOVING ASPHALT CONC. PAVEMENT	S.Y.	150		
C 6	REMOVING GUARDRAIL	L.F.	130		
C 7	REMOVING PAINT LINE	L.F.	753		
C 8	REMOVING PAINTED TRAFFIC MARKING	EACH	3		
C 9	REMOVING PAINTED CROSSWALK LINE	S.F.	352		
C 10	REMOVING RAISED PAVEMENT MARKER	HUND	0.1		
C 11	CONNECT TO EXISTING PIPE 12 IN. DIAM.	EACH	2		
C 12	CATCH BASIN TYPE 1	EACH	1		
C 13	PERMEABLE BALLAST	TON	530		
C 14	CRUSHED SURFACING BASE COURSE	TON	200		
C 15	CRUSHED SURFACING TOP COURSE	TON	10		
C 16	PLANING BITUMINOUS PAVEMENT	S.Y.	222		
C 17	HMA CL. 1/2 IN. PG 58v-22	TON	225		
C 18	HMA SAWCUT AND SEAL	L.F.	199		
C 19	INLET PROTECTION	EACH	6		
C 20	STREET CLEANING	HR	150		
C 21	CEMENT CONC. TRAFFIC CURB AND GUTTER	L.F.	100		
C 22	CEMENT CONC. PEDESTRIAN CURB	L.F.	20		
C 23	BEAM GUARDRAIL TYPE 31	L.F.	80		
C 24	PAINT LINE	L.F.	318		
C 25	PLASTIC LINE	L.F.	510		
C 26	PLASTIC CROSSWALK LINE	S.F.	768		
C 27	PLASTIC STOP LINE	L.F.	83		
C 28	PEDESTRIAN TRAFFIC CONTROL	L.S.	1		

BID SCHEDULE C - CITY OF TACOMA					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
C 29	PERMANENT SIGNING	L.S.	1		
C 30	ILLUMINATION SYSTEM	L.S.	1		
C 31	TRAFFIC SIGNAL SYSTEM COMPLETE, 12TH ST. E. / PORT OF TACOMA RD	L.S.	1		
C 32	SEQUENTIAL ARROW SIGN	HR	176		
C 33	OTHER TEMPORARY TRAFFIC CONTROL	L.S.	1		
C 34	TRAFFIC CONTROL SUPERVISOR	L.S.	1		
C 35	CONSTRUCTION SIGNS CLASS A	S.F.	125		
C 36	OTHER TRAFFIC CONTROL LABOR	HR	16		
C 37	TRAFFIC SIGNAL INTERCONNECT SYSTEM COMPLETE	L.S.	1		
C 38	STRUCTURE EXCAVATION CLASS B INCL. HAUL	C.Y.	6		
C 39	DETECTABLE WARNING SURFACE	S.F.	66		
C 40	CEMENT CONC. SIDEWALK	S.Y.	50		
C 41	CEMENT CONC. CURB RAMP TYPE PARALLEL A	EACH	6		
C 42	GRAVEL BACKFILL FOR PIPE ZONE BEDDING	C.Y.	5		
C 43	CLEANING EXISTING DRAINAGE STRUCTURE	L.S.	1		
C 44	ADA FEATURES SURVEYING	L.S.	1		
C 45	ROADWAY SURVEYING	L.S.	1		
TOTAL BID SCHEDULE C:					

BID SCHEDULE D - WATER MAIN CITY OF FIFE					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
D 1	MOBILIZATION	L.S.	1		
D 2	COMB. AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN.	EACH	1		
D 3	BLOWOFF ASSEMBLY - 2 IN.	EACH	2		
D 4	HYDRANT ASSEMBLY	EACH	5		
D 5	SERVICE CONNECTION 1 IN. DIAM.	EACH	6		
D 6	SERVICE CONNECTION 1-1/2 IN. DIAM.	EACH	4		
D 7	SERVICE CONNECTION 2 IN. DIAM.	EACH	3		
D 8	DUCTILE IRON PIPE FOR WATER MAIN 6 IN. DIAM.	L.F.	70		
D 9	DUCTILE IRON PIPE FOR WATER MAIN 8 IN. DIAM.	L.F.	157		
D 10	DUCTILE IRON PIPE FOR WATER MAIN 12 IN. DIAM.	L.F.	1,123		
D 11	GATE VALVE 6 IN.	EACH	6		
D 12	GATE VALVE 8 IN.	EACH	4		
D 13	GATE VALVE 12 IN.	EACH	11		
D 14	1 IN. METER	EACH	8		
D 15	1 1/2 IN. METER	EACH	7		
D 16	2 IN. METER	EACH	3		
D 17	1 IN. REDUCED PRESSURE BACKFLOW ASSEMBLY	EACH	4		
D 18	1 1/2 IN. REDUCED PRESSURE BACKFLOW ASSEMBLY	EACH	3		
D 19	2 IN . DOUBLE CHECK VALVE ASSEMBLY	EACH	1		
D 20	GUARD POST	EACH	2		
D 21	SLEEVE-TYPE MECHANICAL COUPLINGS - DI TO AC CONNECTION	EACH	1		
D 22	RESTRAINED MECHANICAL COUPLINGS	EACH	2		
D 23	RESTRAINING GLANDS	EACH	2		
D 24	ROADWAY SURVEYING	L.S.	1		
TOTAL BID SCHEDULE D:					

BID SCHEDULE E - WATER MAIN WSDOT					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
E 1	MOBILIZATION	L.S.	1		
E 2	COMB. AIR RELEASE/AIR VACUUM VALVE ASSEMBLY 2 IN.	EACH	1		
E 3	BLOWOFF ASSEMBLY - 3 IN.	EACH	1		
E 4	DUCTILE IRON PIPE FOR WATER MAIN 12 IN. DIAM.	L.F.	603		
E 5	GATE VALVE 12 IN.	EACH	1		
E 6	ROADWAY SURVEYING	L.S.	1		
TOTAL BID SCHEDULE E:					

BID SCHEDULE F - 3RD PARTY UTILITIES					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
F 1	MOBILIZATION	L.S.	1		
F 2	SHORING OR EXTRA EXCAVATION TRENCH	S.F.	3,774		
F 3	JOINT UTILITY TRENCH	L.F.	2,156		
F 4	LATERAL TRENCH	L.F.	274		
F 5	SERVICE TRENCH	L.F.	2,708		
F 6	INSTALL UTILITY VAULT 3648 - COMCAST PROVIDED	EACH	2		
F 7	INSTALL UTILITY PEDESTAL 2436 - COMCAST PROVIDED	EACH	14		
F 8	INSTALL UTILITY PEDESTAL 12 IN. - COMCAST PROVIDED	EACH	1		
F 9	INSTALL UTILITY PEDESTAL - CENTURYLINK PROVIDED	EACH	2		
F 10	INSTALL UTILITY VAULT/HANDHOLE 264-TA - CENTURYLINK PROVIDED	EACH	2		
F 11	FURNISH AND INSTALL UTILITY PEDESTAL - CENTURYLINK	EACH	3		
F 12	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 467-TA - CENTURYLINK	EACH	3		
F 13	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 264-TA - CENTURYLINK	EACH	1		
F 14	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 264-TA - CLICK	EACH	2		
F 15	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 25-TA - CLICK	EACH	3		
F 16	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 1730 - CLICK	EACH	10		
F 17	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 2436 - CLICK	EACH	2		
F 18	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE SSB-SM__ - TPU	EACH	4		
F 19	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE SSB-LG__ - TPU	EACH	2		
F 20	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 444T - TPU	EACH	4		
F 21	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 544J - TPU	EACH	8		
F 22	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 544T - TPU	EACH	3		
F 23	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 684 - TPU	EACH	1		
F 24	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE 810SWGR - TPU	EACH	1		
F 25	FURNISH AND INSTALL UTILITY VAULT/HANDHOLE TYPE 1 J BOX-CITY	EACH	10		
F 26	INSTALL CONDUIT PIPE 2 IN. DIAM. - CENTURYLINK	L.F.	84		
F 27	INSTALL CONDUIT PIPE 4 IN. DIAM. - CENTURYLINK	L.F.	1,960		
F 28	INSTALL CONDUIT PIPE 3 IN. DIAM. - COMCAST	L.F.	7,035		

BID SCHEDULE F - 3RD PARTY UTILITIES					
Item No.	Item Description	Unit	Quantity	Unit Cost	Total Amount
F 29	INSTALL CONDUIT PIPE 4 IN. DIAM. - COMCAST	L.F.	122		
F 30	FURNISH AND INSTALL CONDUIT PIPE 4 IN. DIAM. - CENTURYLINK	L.F.	2,625		
F 31	FURNISH AND INSTALL CONDUIT PIPE 4 IN. DIAM. - CITY	L.F.	3,048		
F 32	FURNISH AND INSTALL CONDUIT PIPE 2 IN. DIAM. - CLICK	L.F.	4,559		
F 33	FURNISH AND INSTALL CONDUIT PIPE 4 IN. DIAM. - CLICK	L.F.	2,149		
F 34	FURNISH AND INSTALL CONDUIT PIPE 2.5 IN. DIAM. - TPU	L.F.	842		
F 35	FURNISH AND INSTALL CONDUIT PIPE 4 IN. DIAM. - TPU	L.F.	3,228		
F 36	FURNISH AND INSTALL CONDUIT PIPE 5 IN. DIAM. - TPU	L.F.	2,452		
F 37	INSTALL RISER PIPE 4 IN. DIAM. - COMCAST	L.F.	80		
F 38	INSTALL RISER PIPE 4 IN. DIAM. - CENTURYLINK	L.F.	20		
F 39	FURNISH AND INSTALL RISER PIPE 4 IN. DIAM. - CENTURYLINK	L.F.	50		
F 40	FURNISH AND INSTALL RISER PIPE 4 IN. DIAM. - CLICK	L.F.	70		
F 41	FURNISH AND INSTALL RISER PIPE 4 IN. DIAM. - TPU	L.F.	50		
F 42	FURNISH AND INSTALL RISER PIPE 5 IN. DIAM. - TPU	L.F.	20		
F 43	RESOLUTION OF UTILITY CONFLICTS	EST.	1	\$ 23,800	\$ 23,800
F 44	BOLLARD TYPE 1	EACH	4		
F 45	GUARD POST	EACH	5		
F 46	ROADWAY SURVEYING	L.S.	1		
TOTAL BID SCHEDULE E:					

BID SUMMARY

TOTAL BID SCHEDULE A - CITY OF FIFE	
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SUBTOTAL BID SCHEDULE B:	
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WSST - 9.9%	
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TOTAL BID SCHEDULE B - WSDOT:	
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TOTAL BID SCHEDULE C - CITY OF TACOMA:	
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SUBTOTAL BID SCHEDULE D - WATER MAIN - CITY OF FIFE:	
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WSST 9.9%	
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TOTAL BID SCHEDULE D:	
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SUBTOTAL BID SCHEDULE E - WATER MAIN - WSDOT:	
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WSST 9.9%	
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TOTAL BID SCHEDULE D:	
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TOTAL BID SCHEDULE F- 3RD PARY UTILITIES:	
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WSST 9.9%	
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TOTAL BID SCHEDULE E:	
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BID TOTAL (TOTAL BID FOR ALL SCHEDULES):	
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Bid Total *Total Bid for All Schedules) (In Words): _____

Bidder: _____

1 **(March 13, 1995 WSDOT GSP)**

2 **Other Contracts Or Other Work**

3 It is anticipated that the following work adjacent to or within the limits of this project will
4 be performed by others during the course of this project and will require coordination of
5 the work:

6
7 ***

- 8 • I-5 - Portland Avenue to Port of Tacoma Road - Southbound HOV I-5 M Street
- 9 to Portland Avenue – HOV
- 10 • I-5 - Portland Avenue to Port of Tacoma Road - Northbound HOV
- 11 • SR 509 /TMBL RR Crossing 1.1 Miles W of Norpoint Way – Safety
- 12 • SR 509/UP RR Crossing 0.6 Miles W of Norpoint Way - Safety
- 13 • I-5 - SR 16 Realignment - HOV Structure and Connections
- 14 • Love’s Redevelopment - The contractor shall notify Love’s 2-weeks prior to
- 15 installing fence at right-of-way
- 16 • Utility Service Connections for Businesses and Residences along 34th Street.
- 17 Cabling and wires installed by utility companies.
- 18 • Installation of gas lines, hookup to adjacent properties
- 19 • Installation of two deep gas lines. A 1-inch line crossing 34th St. at Sta D-Line
- 20 Sta 33+05 and a 6-inch line from approximately D-Line Sta 28+00 to
- 21 approximately D-Line Sta 34+35.
- 22 • City Contractor to connect electrical and communication services from utility
- 23 service connections to adjacent buildings/facilities.
- 24 • Pacific Highway Puyallup River Bridge Replacement (SR 99 or Puyallup Ave,
- 25 will be closed for approximately twelve months starting June 1, 2018).

26 ***

27
28 **1-05.15 Method of Serving Notices**

29 *(March 25, 2009 APWA GSP)*

30 Revise the second paragraph to read:

31
32 All correspondence from the Contractor shall be directed to the Project Engineer. All
33 correspondence from the Contractor constituting any notification, notice of protest, notice
34 of dispute, or other correspondence constituting notification required to be furnished
35 under the Contract, must be in paper format, hand delivered or sent via mail delivery
36 service to the Project Engineer's office. Electronic copies such as e-mails or
37 electronically delivered copies of correspondence will not constitute such notice and will
38 not comply with the requirements of the Contract.

39
40 Add the following new section:

41 **1-05.16 Water and Power**

42 *(October 1, 2005 APWA GSP)*

43
44 The Contractor shall make necessary arrangements, and shall bear the costs for power
45 and water necessary for the performance of the work, unless the contract includes power
46 and water as a pay item.

47
48 Add the following new section:

49 **1-05.18 Record Drawings**

50 *(March 8, 2013 APWA GSP)*

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of UDBE participation specified as a percentage of the final Contract amount inclusive of all change orders.

UDBE COA Goal

The Contracting Agency has established a UDBE COA Goal for this Contract in the amount of: *** 8% ***

DBE Eligibility/Selection of DBEs

In order to determine the distinct element(s) of work for which a DBE is certified, Contractors should refer to the Certified Business Description. The Contractor shall not use NAICS codes on the UDBE Utilization Certification.

Crediting DBE Participation

Subcontractors proposed as COA must be certified prior to the due date for bids on the Contract. All non-COA DBE Subcontractors shall be certified before the subcontract on which they are participating is executed.

Be advised that although a firm is listed in the Certified Firm Directory, there are cases where the listed firm is in a temporary suspension status. The Contractor shall review the OMWBE Suspended DBE Firms list. A DBE firm that is included on this list may not enter into new contracts that count towards participation.

DBE participation is only credited upon payment to the DBE.

The following are some definitions of what may be counted as DBE participation.

DBE Prime Contractor

Only take credit for that portion of the total dollar value of the Contract equal to the distinct, clearly defined portion of the Work that the DBE Prime Contractor performs with its own forces and is certified to perform.

DBE Subcontractor

Only take credit for that portion of the total dollar value of the subcontract that is equal to the distinct, clearly defined portion of the Work that the DBE performs with its own forces. The value of work performed by the DBE includes the cost of supplies and materials purchased by the DBE and equipment leased by the DBE, for its work on the contract. Supplies, materials or equipment obtained by a DBE that are not utilized or incorporated in the contract work by the DBE will not be eligible for DBE credit.

The supplies, materials, and equipment purchased or leased from the Contractor or its affiliate, including any Contractor's resources available to DBE subcontractors at no cost, shall not be credited.

DBE credit will not be given in instances where the equipment lease includes the operator. The DBE is expected to operate the equipment used in the performance of its work under the contract with its own forces. Situations where equipment is leased and used by the DBE, but payment is deducted from the Contractor's payment to the DBE is not allowed.

When the subcontractor is part of a UDBE Commitment, the following apply:

1 "Temporary Conc. Barrier Type 2 with Scupper", per linear foot.
2 The unit Contract price for "Temporary Conc. Barrier Type 2 with Scupper" shall be full
3 payment for furnishing, installing, and removing the temporary barrier as shown in the
4 plans.

5
6 "Temporary Concrete Barrier", per linear foot.
7 The unit Contract price for "Temporary Concrete Barrier" shall be full payment for
8 furnishing, installing, and removing the temporary barrier as shown in the plans.

9
10 "Temporary Barrier Terminal", per each.
11 The unit Contract price for "Temporary Barrier Terminal" shall be full payment for
12 furnishing, placing, maintaining and removing barrier terminal as shown in the plans.

13
14 "Temporary Type 2 Barrier with Fence", per linear foot.
15 The unit Contract price for "Temporary Type 2 Barrier with Fence" shall be full payment
16 for furnishing, installing, and removing the temporary barrier as shown in the plans.

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20 **6-13 STRUCTURAL EARTH WALLS**

21 **6-13.2 Materials**

22
23 Section 6-13.2 is supplemented with the following:

24
25 ***(January 2, 2018)***
26 ***Concrete Block Faced Structural Earth Wall Materials***

27 **General Materials**

28 **Concrete Block**

29 Acceptability of the blocks will be determined based on the following:

- 30
31 1. Visual inspection.
32
33 2. Compressive strength tests, conforming to Section 6-13.3(4).
34
35 3. Water absorption tests, conforming to Section 6-13.3(4).
36
37 4. Manufacturer's Certificate of Compliance in accordance with Section
38 1-06.3.
39
40 5. Freeze-thaw tests conducted on the lot of blocks produced for use in
41 this project, as specified in Section 6-13.3(4).
42
43 6. Copies of results from tests conducted on the lot of blocks produced
44 for this project by the concrete block fabricator in accordance with the
45 quality control program required by the structural earth wall
46 manufacturer.

47
48 The blocks shall be considered acceptable regardless of curing age when
49 compressive test results indicate that the compressive strength conforms to the
50 28-day requirements, and when all other acceptability requirements specified
51 above are met.

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Testing and inspection of dry cast concrete blocks shall conform to ASTM C 140, and shall include block fabrication plant approval by WSDOT prior to the start of block production for this project.

Mortar

Mortar shall conform to ASTM C 270, Type S, with an integral water repellent admixture as accepted by the Engineer. The amount of admixture shall be as recommended by the admixture manufacturer. To ensure uniform color, texture, and quality, all mortar mix components shall be obtained from one manufacturer for each component, and from one source and producer for each aggregate.

Geosynthetic Soil Reinforcement

Geogrid reinforcement shall conform to Section 9-33.1, and shall be a product listed in Appendix D of the current WSDOT Qualified Products List (QPL). The values of T_{al} and T_{ult} as listed in the QPL for the products used shall meet or exceed the values required for the wall manufacturer’s reinforcement design as specified in the structural earth wall design calculation and working drawing submittal.

The minimum ultimate tensile strength of the geogrid shall be a minimum average roll value (the average test results for any sampled roll in a lot shall meet or exceed the values shown in Appendix D of the current WSDOT QPL). The strength shall be determined in accordance with ASTM D 6637, for multi-rib specimens.

The ultraviolet (UV) radiation stability, in accordance with ASTM D 4355, shall be a minimum of 70 percent strength retained after 500 hours in the weatherometer.

The longitudinal (i.e., in the direction of loading) and transverse (i.e., parallel to the wall or slope face) ribs that make up the geogrid shall be perpendicular to one another. The maximum deviation of the cross-rib from being perpendicular to the longitudinal rib (skew) shall be no more than 1 inch in 5 feet of geogrid width. The maximum deviation of the cross-rib at any point from a line perpendicular to the longitudinal ribs located at the cross-rib (bow) shall be 0.5 inches.

The gap between the connector and the bearing surface of the connector tab cross-rib shall not exceed 0.5 inches. A maximum of 10 percent of connector tabs may have a gap between 0.3 inches and 0.5 inches. Gaps in the remaining connector tabs shall not exceed 0.3 inches.

The Engineer will take random samples of the geogrid materials at the job site. Acceptance of the geogrid materials will be based on testing of samples from each lot. A “lot” shall be defined as all geogrid rolls sent to the project site produced by the same manufacturer during a continuous period of production at the same manufacturing plant having the same product name. The Contracting Agency will require 14 calendar days maximum for testing the samples after their arrival at the WSDOT Materials Laboratory in Tumwater, WA.

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The geogrid samples will be tested for conformance to the specified material properties. If the test results indicate that the geogrid lot does not meet the specified properties, the roll or rolls which were sampled will be rejected. Two additional rolls for each roll tested which failed from the lot previously tested will then be selected at random by the Engineer for sampling and retesting. If the retesting shows that any of the additional rolls tested do not meet the specified properties, the entire lot will be rejected. If the test results from all the rolls retested meet the specified properties, the entire lot minus the roll(s) which failed will be accepted.

All geogrid materials which have defects, deterioration, or damage, as determined by the Engineer, will be rejected. All rejected geogrid materials shall be replaced at no expense to the Contracting Agency.

Except as otherwise noted, geogrid identification, storage and handling shall conform to the requirements specified in Section 2-12.2. The geogrid materials shall not be exposed to temperatures less than -20F and greater than 122F.

Drainage Geosynthetic Fabric

Drainage geosynthetic fabric shall be a non-woven geosynthetic conforming to the requirements in Section 9-33.1, for Construction Geotextile for Underground Drainage, Moderate Survivability, Class B.

Proprietary Materials

Allan Block Wall

Wall backfill material placed in the open cells of the precast concrete blocks and placed in the one to three foot zone immediately behind the precast concrete blocks shall be crushed granular material conforming to Section 9-03.9(3).

GEO WALL Structural Earth Retaining Wall System

Connection pins shall be fiberglass conforming to the requirements of Basalite Concrete Products, LLC.

KeyGrid Wall

KeyStone connection pins shall be fiberglass conforming to the requirements of Keystone Retaining Wall Systems, Inc.

Landmark Retaining Wall

Lock bars shall be made of a rigid polyvinyl chloride polymer conforming to the following requirements:

Property	Value	Specification
Specific Gravity	1.4 minimum	ASTM D 792
Tensile Strength at yield	2,700 psi minimum	ASTM D 638

Lock bars shall remain sealed in their shipping containers until placement into the wall. Lock bars exposed to direct sunlight for a period exceeding two months shall not be used for construction of the wall.

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Mesa Wall

Block connectors for block courses with geogrid reinforcement shall be glass fiber reinforced high-density polypropylene conforming to the following minimum material specifications:

<u>Property</u>	<u>Specification</u>	<u>Value</u>
Polypropylene	ASTM D 4101	
	Group 1 Class 1 Grade 2	73 ± 2 percent
Fiberglass Content	ASTM D 2584	25 ± 3 percent
Carbon Black	ASTM D 4218	2 percent minimum
Specific Gravity	ASTM D 792	1.08 ± 0.04
Tensile Strength at yield	ASTM D 638	8,700 ± 1,450 psi
Melt Flow Rate	ASTM D 1238	0.37 ± 0.16 ounces/10 min.

Block connectors for block courses without geogrid reinforcement shall be glass fiber reinforced high-density polyethylene (HDPE) conforming to the following minimum material specifications:

<u>Property</u>	<u>Specification</u>	<u>Value</u>
HDPE	ASTM D 1248	
	Type III Class A Grade 5	68 ± 3 percent
Fiberglass Content	ASTM D 2584	30 ± 3 percent
Carbon Black	ASTM D 4218	2 percent minimum
Specific Gravity	ASTM D 792	1.16 ± 0.06
Tensile Strength at yield	ASTM D 638	8,700 ± 725 psi
Melt Flow Rate	ASTM D 1238	0.11 ± 0.07 ounces/10 min.

6-13.3 Construction Requirements

Section 6-13.3 is supplemented with the following:

(January 2, 2018)

Concrete Block Faced Structural Earth Wall

Concrete block faced structural earth walls shall be constructed of only one of the following wall systems. The Contractor shall make arrangements to purchase the concrete blocks, soil reinforcement, attachment devices, joint filler, and all necessary incidentals from the source identified with each wall system:

Allan Block Wall

Allan Block Wall is a registered trademark of the Allan Block Corporation

Allan Block Corporation
7424 W 78th Street
Bloomington, MN 55439
(800) 899-5309
FAX (952) 835-0013
www.allanblock.com

GEOWALL Structural Earth Retaining Wall System

GEOWALL is a registered trademark of Basalite Concrete Products, LLC

1 Basalite Concrete Products LLC
2 3299 International Place
3 Du Pont, WA 98327-7707
4 (800) 964-9424
5 FAX: (253) 964-5005
6 www.basalite.com
7
8 Redi-Rock Positive Connection System
9 Redi-Rock Positive Connection System is a registered trademark of Redi-Rock
10 International, LLC
11
12 Redi-Rock International, LLC
13 05481 US 31 South
14 Charlevoix, MI 49720
15 (866) 222-8400
16 FAX (231) 237-9521
17 www.redi-rock.com
18
19 Mesa Wall
20 Mesa Wall is a registered trademark of Tensar Corporation
21
22 Tensar Corporation
23 2500 Northwinds Parkway Suite 500
24 Atlanta, GA 30009
25 (770) 334-2090
26 FAX (678) 281-8546
27 www.tensarcorp.com
28
29 Landmark Retaining Wall System
30 Landmark Retaining Wall System is a registered trademark of Anchor Wall
31 Systems, Inc.
32
33 Anchor Wall Systems, Inc.
34 5959 Baker Road, Suite 390
35 Minnetonka, MN 55345-5996
36 (877) 295-5415
37 FAX (952) 979-8454
38 www.anchorwall.com
39
40 KeyGrid Wall
41 KeyGrid is a registered trademark of Keystone Retaining Wall Systems, Inc.
42
43 Keystone Retaining Wall Systems, Inc.
44 4444 West 78th Street
45 Minneapolis, MN 55435
46 (800) 747-8971
47 FAX (952) 897-3858
48 www.keystonewalls.com
49

50 **Submittals**

51 Section 6-13.3(2) is supplemented with the following:
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(January 3, 2011 WSDOT GSP)
The following geotechnical design parameters shall be used for the design of the structural earth wall(s):

Wall Name or No.: *** B, D and E ***

Soil Properties	Wall Backfill	Retained Soil	Foundation Soil
Unit Weight (pcf)	***130***	***120***	***54.6***
Friction Angle (deg)	***36***	***32***	***28***
Cohesion (psf)	***0***	***0***	***0***

For the Service Limit State, the wall shall be designed to accommodate a differential settlement of *** 1 inch *** per 100 feet of wall length.

For the Extreme Event I Limit State, the wall shall be designed for a horizontal seismic acceleration coefficient k_h of *** 0.22 *** g and a vertical seismic acceleration coefficient k_v of *** 0 *** g.

Precast Concrete Facing Panel and Concrete Block Erection
Section 6-13.3(5) is supplemented with the following:

(April 2, 2012 WSDOT GSP)
Specific Erection Requirements for Precast Concrete Block Faced Structural Earth Walls

Landmark Retaining Wall

When placing each course of concrete blocks, the Contractor shall pull the blocks towards the front face of the wall until the male key of the bottom face of the upper block contacts and fits into the female key of the top face of the supporting block below.

A maximum gap of 1/8-inch is allowed between adjacent concrete blocks, except for the base course set of concrete blocks placed on the leveling pad. A maximum gap of 1-inch is allowed between adjacent base course concrete blocks, provided geosynthetic reinforcement for drains is in place over the gap at the back face of the concrete blocks.

Lock bars shall be installed in the female key of the top face of all concrete block courses receiving geogrid reinforcement. Gaps between adjacent lock bars in the key shall not exceed 3-inches. The lock bar shall be installed flat side up, with the angled side to the back of the concrete block, as shown in the shop drawings.

Geogrid reinforcement shall be placed and connected to concrete block courses specified to receive soil reinforcement. The leading edge of the geogrid reinforcement shall be maintained within 1-inch of the front face of the supporting concrete blocks below. Geogrid panels shall be abutted for 100 percent backfill coverage with less than a 4-inch gap between adjacent panels.

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Backfill shall be placed and compacted level with the top of each course of concrete blocks, and geogrid reinforcement placed and connected to concrete block courses specified to receive soil reinforcement, before the Contractor may continue placing the next course of concrete blocks.

Mesa Wall

For all concrete block courses receiving geogrid reinforcement, the fingers of the block connectors shall engage the geogrid reinforcement apertures, both in the connector slot in the block, and across the block core. For all concrete block courses with intermittent geogrid coverage, a #3 steel reinforcing bar shall be placed, butt end to butt end, in the top block groove, with the butt ends being placed at a center of a concrete block.