





**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
	<b>JOB</b>	1.00	Lump Sum	\$44,153,503.08	\$37,729,530.58	\$16,807,502.52	\$38,651,784.71	\$69,407,085.90		\$254,234,206.79	\$254,234,206.79	526,027.46
	<b>Prime Bond</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Price % Add-On</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Job Financing</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Job Management &amp; Equipment</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
	<b>General Expense</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>1</b>	<b>PROJECT PROFIT (10%)</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23,100,000.00	\$23,100,000.00	\$23,100,000.00	0.00
<b>2</b>	<b>INDIRECT - ALL</b>	1.00	LS	\$15,519,924.04	\$13,579,250.00	\$0.00	\$1,420,650.00	\$3,238,900.00	\$16,607,200.00	\$50,663,524.04	\$50,663,524.04	158,163.00
2.1	INDIRECT (NEW BRIDGE AND APPROACHES)	1.00	Each	\$13,816,723.45	\$10,576,000.00	\$0.00	\$1,420,650.00	\$3,238,900.00	\$16,607,200.00	\$45,957,073.45	\$45,957,073.45	139,196.00
2.1.1	COMMERCIAL (NEW AND DEMO)	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,607,200.00	\$16,607,200.00	\$16,607,200.00	0.00
2.1.2	JOB RELATED OVERHEAD	1.00	LS	\$13,602,985.13	\$8,727,000.00	\$0.00	\$1,420,650.00	\$672,000.00	\$0.00	\$24,720,235.13	\$24,720,235.13	138,796.00
2.1.3	CRAFT SUPPORT SERVICES	1.00	LS	\$213,738.32	\$1,849,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,062,738.32	\$2,062,738.32	400.00
2.1.4	TEMP & CONSTRUCTION ENGINEERING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,270,900.00	\$0.00	\$1,270,900.00	\$1,270,900.00	0.00
2.1.5	SURVEY (4 MAN TEAM AT \$27 K PER MO)	48.00	Month	\$0.00	\$0.00	\$0.00	\$0.00	\$1,296,000.00	\$0.00	\$1,296,000.00	\$27,000.00	0.00
2.2	DEMO INDIRECT	1.00	Each	\$1,703,200.59	\$3,003,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,706,450.59	\$4,706,450.59	18,967.00
2.2.1	DEMO STAFF	18,717.00	Hour	\$1,684,530.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,684,530.00	\$90.00	18,717.00
2.2.2	TEMP ENGINEERING	1.00	Each	\$0.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$2,000,000.00	0.00
2.2.3	EQUIPMENT MOBILIZATION	1.00	Each	\$18,670.59	\$351,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$369,920.59	\$369,920.59	250.00
2.2.4	MATERIAL HANDLING	1.00	Each	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	0.00
2.2.5	STAFF MOBE	4.00	Each	\$0.00	\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100,000.00	\$25,000.00	0.00
2.2.6	CRAFT SUBSISTENCE	104.00	Week	\$0.00	\$52,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52,000.00	\$500.00	0.00
<b>3</b>	<b>TRAFFIC CONTROL</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$3,300,000.00	\$0.00	\$3,300,000.00	\$3,300,000.00	0.00
<b>4</b>	<b>ROADWORK</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$459,860.00	\$0.00	\$459,860.00	\$459,860.00	0.00
4.1	CLEARING AND GRUBBING	1.34	Acre	\$0.00	\$0.00	\$0.00	\$0.00	\$13,400.00	\$0.00	\$13,400.00	\$10,000.00	0.00
4.2	EMBANKMENT IN PLACE	12,756.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$446,460.00	\$0.00	\$446,460.00	\$35.00	0.00
<b>5</b>	<b>DRAINAGE AND SEWERS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$3,284,100.00	\$0.00	\$3,284,100.00	\$3,284,100.00	0.00
5.1	CONCRETE INLETS	8.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$16,800.00	\$0.00	\$16,800.00	\$2,100.00	0.00
5.2	DIVERSION MANHOLES	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$10,000.00	0.00
5.3	RETURN FLOW MANHOLES	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$3,000.00	0.00
5.4	VAULT WITH INTERNALS	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$200,000.00	0.00
5.5	PIPE, 12 INCH DIAMETER	740.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$162,800.00	\$0.00	\$162,800.00	\$220.00	0.00
5.6	PIPE, 15 INCH DIAMETER	400.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$340.00	0.00
5.7	PIPE, 18 INCH DIAMETER	5,085.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$2,542,500.00	\$0.00	\$2,542,500.00	\$500.00	0.00
<b>6</b>	<b>BRIDGES</b>	249,278.00	SF	\$23,983,367.15	\$21,457,846.58	\$16,807,502.52	\$23,562,171.44	\$37,680,256.90	\$0.00	\$125,971,144.59	\$505.34	306,861.54
6.1	SHORING, CRIBBING AND COFFERDAMS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.2	STRUCTURE EXCAVATION	303.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$15,150.00	\$0.00	\$15,150.00	\$50.00	0.00

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6.3	GRANULAR STRUCTURE BACKFILL	96.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$7,200.00	\$0.00	\$7,200.00	\$75.00	0.00
6.4	FURNISH DRILLING EQUIPMENT	1.00	LS	\$182,008.33	\$25,200.00	\$0.00	\$6,519,501.90	\$0.00	\$0.00	\$6,726,710.23	\$6,726,710.23	2,100.00
6.5	DRILLED SHAFT CONCRETE	4,204.00	CY	\$522,589.24	\$72,348.00	\$922,640.00	\$0.00	\$92,480.00	\$0.00	\$1,610,057.24	\$382.98	6,029.60
6.6	DRILLED SHAFT REINFORCEMENT	527,100.00	LB	\$184,435.10	\$25,536.00	\$131,250.00	\$0.00	\$696,120.00	\$0.00	\$1,037,341.10	\$1.97	2,128.00
6.7	CSL TEST ACCESS TUBES	20,360.00	FT	\$77,272.47	\$4,104.00	\$43,205.73	\$0.00	\$0.00	\$0.00	\$124,582.20	\$6.12	891.56
6.8	CSL TESTS	38.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$1,500.00	0.00
6.9	DRILLED SHAFT EXCAVATION, 72 INCH DIAMETER	1,637.00	FT	\$878,190.18	\$1,876,498.37	\$864,008.60	\$0.00	\$17,700.00	\$0.00	\$3,636,397.15	\$2,221.38	10,132.50
6.10	DRILLED SHAFT EXCAVATION, 96 INCH DIAMETER	1,444.00	FT	\$674,904.21	\$2,522,019.15	\$1,013,351.50	\$0.00	\$31,280.00	\$0.00	\$4,241,554.86	\$2,937.36	7,787.00
6.11	FURNISH PILE DRIVING EQUIPMENT	1.00	LS	\$0.00	\$0.00	\$0.00	\$965,427.68	\$0.00	\$0.00	\$965,427.68	\$965,427.68	0.00
6.12	FURNISH PP 48 X 0.5 STEEL PILES	11,610.00	FT	\$301,496.84	\$0.00	\$3,157,780.00	\$0.00	\$235,200.00	\$0.00	\$3,694,476.84	\$318.22	3,483.00
6.13	FURNISH PP 48 X 0.5 STEEL TEST PILES	923.00	FT	\$23,969.13	\$0.00	\$239,980.00	\$0.00	\$0.00	\$0.00	\$263,949.13	\$285.97	276.90
6.14	DRIVE PP 48 X 0.5 STEEL PILES	11,610.00	FT	\$590,788.38	\$609,380.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,168.38	\$103.37	6,825.00
6.15	DRIVE TEST PILES	923.00	FT	\$89,435.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$89,435.58	\$96.90	1,064.00
6.16	PILE LOAD TEST (DYNAMIC)	6.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$90,000.00	\$0.00	\$90,000.00	\$15,000.00	0.00
6.17	PP 48 X 0.5 STEEL PILE SPLICES	204.00	EA	\$413,876.48	\$0.00	\$0.00	\$771,080.86	\$0.00	\$0.00	\$1,184,957.33	\$5,808.61	4,781.25
6.18	REINFORCEMENT	7,882,790.00	LB	\$330,156.35	\$0.00	\$0.00	\$0.00	\$10,878,250.20	\$0.00	\$11,208,406.55	\$1.42	3,942.00
6.19	COATED REINFORCEMENT	1,612,435.00	LB	\$67,505.33	\$0.00	\$0.00	\$0.00	\$2,628,269.05	\$0.00	\$2,695,774.38	\$1.67	806.00
6.20	FOUNDATION CONCRETE, CLASS 4000	10,027.00	CY	\$2,508,388.45	\$1,850,492.00	\$2,206,089.79	\$3,817,643.72	\$650,540.00	\$0.00	\$11,033,153.96	\$1,100.34	32,255.94
6.20.1	CL X CONC - PRECAST FOOTING BOX	2,903.00	CY	\$1,155,229.31	\$442,968.00	\$638,660.00	\$3,228,381.00	\$508,060.00	\$0.00	\$5,973,298.31	\$2,057.63	14,463.94
6.20.2	CL X CONC -CIP FOOTING CONC	6,238.00	CY	\$968,325.19	\$1,271,852.00	\$1,404,627.29	\$267,080.96	\$124,760.00	\$0.00	\$4,036,645.44	\$647.11	12,476.00
6.20.3	CL X CONC (ABUTMENTS AND STEM WALLS)	886.00	CY	\$384,833.96	\$135,672.00	\$162,802.50	\$322,181.76	\$17,720.00	\$0.00	\$1,023,210.22	\$1,154.86	5,316.00
6.21	GENERAL STRUCTURAL CONCRETE, CLASS 4000	34,479.00	CY	\$15,020,242.90	\$5,725,021.00	\$8,229,196.91	\$7,418,678.50	\$1,595,115.00	\$0.00	\$39,388,254.31	\$1,142.38	198,196.48
6.21.1	CL X CONC (COLUMN)	7,169.00	CY	\$2,837,993.79	\$1,335,360.00	\$1,655,490.00	\$1,088,268.00	\$143,380.00	\$0.00	\$7,060,491.79	\$984.86	36,565.00
6.21.2	CL X CONC (PIER TABLE)	4,134.00	CY	\$3,499,431.64	\$1,496,785.00	\$953,426.91	\$1,495,351.50	\$563,280.00	\$0.00	\$8,008,275.05	\$1,937.17	46,940.00
6.21.3	CL X CONC (BRIDGE BOX STRUCTURE)	23,176.00	CY	\$8,682,817.47	\$2,892,876.00	\$5,620,280.00	\$4,835,059.00	\$888,455.00	\$0.00	\$24,319,487.47	\$1,049.34	114,691.48
6.22	REINFORCED CONCRETE END PANELS	380.00	SY	\$0.00	\$0.00	\$0.00	\$0.00	\$68,400.00	\$0.00	\$68,400.00	\$180.00	0.00
6.23	POST-TENSIONING	2,228,617.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$8,914,468.00	\$0.00	\$8,914,468.00	\$4.00	0.00
6.24	BEARING DEVICES, ABUTMENTS	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$8,500.00	0.00
6.25	BEARING DEVICES, BENT 2 & 14	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$14,000.00	0.00
6.26	2 INCH ELECTRICAL CONDUIT	8,800.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$264,000.00	\$0.00	\$264,000.00	\$30.00	0.00
6.27	MODULAR EXPANSION JOINT SEALS	113.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$36,160.00	\$0.00	\$36,160.00	\$320.00	0.00
6.28	COMBINATION BRIDGE RAIL	8,780.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$1,185,300.00	\$0.00	\$1,185,300.00	\$135.00	0.00
6.29	HANDRAIL PEDESTRIAN ORNAMENTAL	4,390.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$856,050.00	\$0.00	\$856,050.00	\$195.00	0.00
6.30	WORK BRIDGE, ALL ACCESS	1.00	LS	\$1,983,372.17	\$8,747,248.06	\$0.00	\$2,098,788.75	\$1,204,574.65	\$0.00	\$14,033,983.62	\$14,033,983.62	24,482.30
6.31	MARINE SUPPORT	1.00	LS	\$134,736.00	\$0.00	\$0.00	\$0.00	\$1,872,000.00	\$0.00	\$2,006,736.00	\$2,006,736.00	1,680.00
6.32	SHORESIDE EQUIPMENT SUPPORT FOR BRIDGE CONST.	1.00	LS	\$0.00	\$0.00	\$0.00	\$1,971,050.04	\$6,240,000.00	\$0.00	\$9,291,050.04	\$9,291,050.04	0.00

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<b>7</b>	<b>BRIDGE DEMOLITION</b>	1.00	LS	\$4,650,211.90	\$2,192,434.00	\$0.00	\$13,668,963.26	\$5,214,000.00	\$0.00	\$25,725,609.16	\$25,725,609.16	61,002.92
7.1	BRIDGE REMOVAL	92,778.00	SF	\$1,037,112.29	\$439,665.00	\$0.00	\$3,101,934.00	\$1,080,000.00	\$0.00	\$5,658,711.29	\$60.99	13,311.12
7.2	RIPRAP REMOVAL	13,478.00	CY	\$110,665.57	\$219,569.00	\$0.00	\$865,670.46	\$514,000.00	\$0.00	\$1,709,905.03	\$126.87	1,347.80
7.3	SHORING, CRIBBING AND COFFERDAMS	1.00	LS	\$997,289.29	\$1,240,400.00	\$0.00	\$4,593,876.00	\$0.00	\$0.00	\$6,831,565.29	\$6,831,565.29	12,800.00
7.4	ALLOCATED CONTINGENCY FOR LEAD PAINT REMOVAL	92,778.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.5	WORK BRIDGE	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.6	BRIDGE FOUNDATION REMOVAL	1.00	LS	\$2,505,144.75	\$292,800.00	\$0.00	\$5,107,482.80	\$3,620,000.00	\$0.00	\$11,525,427.55	\$11,525,427.55	33,544.00
7.7	MARINE SUPPORT	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>8</b>	<b>RETAINING WALLS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$7,401,800.00	\$0.00	\$7,401,800.00	\$7,401,800.00	0.00
8.1	NOISE WALL (PED)	30,000.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$4,800,000.00	\$0.00	\$4,800,000.00	\$160.00	0.00
8.2	RETAINING WALLS, MSE	12,835.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$1,026,800.00	\$0.00	\$1,026,800.00	\$80.00	0.00
8.3	RETAINING WALL - SOLDIER PILE (WASHINGTON SIDE)	10,500.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$1,575,000.00	\$0.00	\$1,575,000.00	\$150.00	0.00
<b>9</b>	<b>BASES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$67,270.00	\$0.00	\$67,270.00	\$67,270.00	0.00
9.1	AGGREGATE BASE	1,922.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$67,270.00	\$0.00	\$67,270.00	\$35.00	0.00
<b>10</b>	<b>WEARING SURFACES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,212,520.00	\$0.00	\$1,212,520.00	\$1,212,520.00	0.00
10.1	HMAC	4,080.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$367,200.00	\$0.00	\$367,200.00	\$90.00	0.00
10.2	CONCRETE WALKS	62,960.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$755,520.00	\$0.00	\$755,520.00	\$12.00	0.00
10.3	CONCRETE SIDEWALK RAMPS	4.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$4,000.00	0.00
10.4	CONCRETE CURBS, CURB AND GUTTER	1,640.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$73,800.00	\$0.00	\$73,800.00	\$45.00	0.00
<b>11</b>	<b>PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVIC</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$295,879.00	\$0.00	\$295,879.00	\$295,879.00	0.00
11.1	CONCRETE BARRIER	8,780.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$289,740.00	\$0.00	\$289,740.00	\$33.00	0.00
11.2	LONGITUDINAL PAVEMENT MARKINGS	17,540.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$6,139.00	\$0.00	\$6,139.00	\$0.35	0.00
<b>12</b>	<b>PERMANENT TRAFFIC CONTROL AND ILLIMINATION</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$2,052,500.00	\$0.00	\$2,052,500.00	\$2,052,500.00	0.00
12.1	SIGNAGE	300.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$52,500.00	\$0.00	\$52,500.00	\$175.00	0.00
12.2	TRAFFIC SIGNALS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$800,000.00	\$0.00	\$800,000.00	\$800,000.00	0.00
12.3	ILLUMINATION SYSTEMS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,000.00	\$0.00	\$1,200,000.00	\$1,200,000.00	0.00
<b>13</b>	<b>UTILITIES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$5,200,000.00	\$0.00	\$5,200,000.00	\$5,200,000.00	0.00
13.1	UTILITY RELOCATION	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500,000.00	\$0.00	\$1,500,000.00	\$1,500,000.00	0.00
13.2	BRIDGE HANGER SYSTEM	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$600,000.00	\$0.00	\$600,000.00	\$600,000.00	0.00
13.3	BRIDGE LIGHTING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$2,600,000.00	\$0.00	\$2,600,000.00	\$2,600,000.00	0.00
13.4	RENEWABLE POWER GENERATION	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$0.00	\$500,000.00	\$500,000.00	0.00
13.5	TOLLING SYSTEM	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>14</b>	<b>RIGHT-OF-WAY DEVELOPMENT AND CONTROL</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
14.1	ROW	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
14.2	BNSF PERMITS AND FLAGGING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>15</b>	<b>MITIGATION COSTS</b>	1.00	LS	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	0.00

Cost Breakdown Structure (CBS) Register

KELLY MCNUTT CONSULTING, LLC

WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
<b>16</b>	<b>BRIDGE AESTHETICS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$5,000,000.00	0.00
16.1	BRIDGE AESTHETICS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$5,000,000.00	0.00
110				\$44,153,503.08	\$37,729,530.58	\$16,807,502.52	\$38,651,784.71	\$69,407,085.90		\$254,234,206.79		526,027.46

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	<b>JOB</b>	1.00	Lump Sum	\$44,153,503.08	\$37,729,530.58	\$16,807,502.52	\$38,651,784.71	\$69,407,085.90		\$254,234,206.79	\$254,234,206.79	526,027.46
	<b>Prime Bond</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Price % Add-On</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Job Financing</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
	<b>Job Management &amp; Equipment</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
	<b>General Expense</b>	1.00	Lump Sum	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>1</b>	<b>PROJECT PROFIT (10%)</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$23,100,000.00	\$23,100,000.00	\$23,100,000.00	0.00
<b>2</b>	<b>INDIRECT - ALL</b>	1.00	LS	\$15,519,924.04	\$13,579,250.00	\$0.00	\$1,420,650.00	\$3,238,900.00	\$16,607,200.00	\$50,663,524.04	\$50,663,524.04	158,163.00
2.1	INDIRECT (NEW BRIDGE AND APPROACHES)	1.00	Each	\$13,816,723.45	\$10,576,000.00	\$0.00	\$1,420,650.00	\$3,238,900.00	\$16,607,200.00	\$45,957,073.45	\$45,957,073.45	139,196.00
2.1.1	COMMERCIAL (NEW AND DEMO)	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,607,200.00	\$16,607,200.00	\$16,607,200.00	0.00
2.1.1.1	B & O TAX OR GROSS RECEIPT .57%	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,439,000.00	\$1,439,000.00	\$1,439,000.00	0.00
2.1.1.2	G&A 6% ON TOTAL COST (on \$193M)	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,580,000.00	\$11,580,000.00	\$11,580,000.00	0.00
2.1.1.3	BOND 5/1000	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,225,000.00	\$1,225,000.00	\$1,225,000.00	0.00
2.1.1.4	DUES	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.1.1.5	LD'S FOR LANE CLOSURE	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.1.1.6	INSURANCE 1.12%	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,363,200.00	\$2,363,200.00	\$2,363,200.00	0.00
2.1.1.7	ESCALATION	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.1.1.8	CONTINGENCY 3% - TOTAL COST	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.1.2	JOB RELATED OVERHEAD	1.00	LS	\$13,602,985.13	\$8,727,000.00	\$0.00	\$1,420,650.00	\$672,000.00	\$0.00	\$24,720,235.13	\$24,720,235.13	138,796.00
2.1.2.1	STAFF	100,000.00	HR	\$11,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,000,000.00	\$110.00	100,000.00
2.1.2.2	STAFF VEHICLES	55,000.00	HR	\$0.00	\$0.00	\$0.00	\$1,420,650.00	\$0.00	\$0.00	\$1,420,650.00	\$25.83	0.00
2.1.2.3	JOB TRAILER - 14 STAFF AVG X 150SF PER EA =2,10	48.00	Month	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$297,600.00	\$6,200.00	0.00
2.1.2.4	OFFICE SETUP	3.00	Acre	\$0.00	\$120,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$120,000.00	\$40,000.00	0.00
2.1.2.5	YARD SETUP - OFFSITE BRIDGE SUPPORT	15.00	Acre	\$0.00	\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00	\$20,000.00	0.00
2.1.2.6	MAINTENANCE YARD -	1.00	Each	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$40,000.00	0.00
2.1.2.7	MAINTENANCE STAFF	6,228.00	HR	\$676,653.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$676,653.52	\$108.65	6,228.00
2.1.2.8	MAINTENANCE CREW	48.00	Month	\$1,342,504.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,342,504.86	\$27,968.85	24,768.00
2.1.2.9	UTILITIES TO OFFICE	1.00	LS	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$40,000.00	0.00
2.1.2.10	UTILITIES	48.00	Month	\$0.00	\$144,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$144,000.00	\$3,000.00	0.00
2.1.2.11	OFFICE SUPPLIES	100,000.00	HR	\$0.00	\$400,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$400,000.00	\$4.00	0.00
2.1.2.12	SAFETY SUPPLIES	419,000.00	HR	\$0.00	\$838,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$838,000.00	\$2.00	0.00
2.1.2.13	IT SERVICES	1.00	LS	\$0.00	\$70,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70,000.00	\$70,000.00	0.00
2.1.2.14	CRAFT SUPPORT TO SETUP/TEARDOWN	12.00	Each	\$42,777.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42,777.48	\$3,564.79	600.00
2.1.2.15	SECURITY	12.00	Month	\$0.00	\$0.00	\$0.00	\$0.00	\$72,000.00	\$0.00	\$72,000.00	\$6,000.00	0.00
2.1.2.16	MOVE STAFF TO SITE	15.00	Each	\$0.00	\$375,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$375,000.00	\$25,000.00	0.00
2.1.2.17	MAJOR EQUIPMENT MOB/DEMOB	1.00	LS	\$0.00	\$5,160,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,160,000.00	\$5,160,000.00	0.00
2.1.2.17.1	MOB/DEMOB MARINE CRANES	5.00	EA	\$0.00	\$1,200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,000.00	\$240,000.00	0.00

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2.1.2.17.2	MOB/DEMOB BARGES	22.00	EA	\$0.00	\$1,320,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,320,000.00	\$60,000.00	0.00
2.1.2.17.3	MOB/DEMOB CRAWLER CRANES	8.00	EA	\$0.00	\$640,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$640,000.00	\$80,000.00	0.00
2.1.2.17.4	MOB/DEMOB SUPPORT EQUIP	1.00	LS	\$0.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$2,000,000.00	0.00
2.1.2.18	MOBILIZATION - LOADS TO/FROM SITE	120.00	Each	\$0.00	\$240,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$240,000.00	\$2,000.00	0.00
2.1.2.19	DRUG TESTING	500.00	EA	\$0.00	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,000.00	\$50.00	0.00
2.1.2.20	COVID TESTING	1,500.00	EA	\$0.00	\$75,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$75,000.00	\$50.00	0.00
2.1.2.21	SUBSISTENCE	1,800.00	Week	\$0.00	\$900,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$900,000.00	\$500.00	0.00
2.1.2.22	ADDNL MOB COSTS DUE TO LACK OF ONSITE LAYDO	1.00	LS	\$541,049.28	\$0.00	\$0.00	\$0.00	\$600,000.00	\$0.00	\$1,141,049.28	\$1,141,049.28	7,200.00
2.1.2.22.1	COST TO TOW OVERSIZED LOADS FROM PORTLAN	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$540,000.00	\$0.00	\$540,000.00	\$540,000.00	0.00
2.1.2.22.1.1	TOW PILE BARGES PRTLND TO SITE	4.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$120,000.00	\$0.00	\$120,000.00	\$30,000.00	0.00
2.1.2.22.1.2	TOW SHAFT CASING BARGES PRTLND TO SITE	6.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$30,000.00	0.00
2.1.2.22.1.3	TOW TEMPLATE FRM BARGES PRTLND TO SITE	4.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$120,000.00	\$0.00	\$120,000.00	\$30,000.00	0.00
2.1.2.22.1.4	TOW SHAFT CAGES PRTLND TO SITE	4.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$120,000.00	\$0.00	\$120,000.00	\$30,000.00	0.00
2.1.2.22.2	COST TO DOUBLE HANDLE FROM OFSITE LAYDOW	1.00	LS	\$541,049.28	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$601,049.28	\$601,049.28	7,200.00
2.1.2.22.2.1	CREW FOR OFFSITE YARD DOUBLE HANDLING	60.00	Week	\$541,049.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$541,049.28	\$9,017.49	7,200.00
2.1.2.22.2.2	TRUCKING FROM OFFSITE YARD	120.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$0.00	\$60,000.00	\$500.00	0.00
2.1.3	CRAFT SUPPORT SERVCES	1.00	LS	\$213,738.32	\$1,849,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,062,738.32	\$2,062,738.32	400.00
2.1.3.1	WATER	469,000.00	HR	\$0.00	\$469,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$469,000.00	\$1.00	0.00
2.1.3.2	PORTA POTTY	420.00	Month	\$0.00	\$147,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$147,000.00	\$350.00	0.00
2.1.3.3	DUMPSTERS	42.00	Month	\$0.00	\$42,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42,000.00	\$1,000.00	0.00
2.1.3.4	CONEX/DRYSHACK	20.00	Each	\$0.00	\$70,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$70,000.00	\$3,500.00	0.00
2.1.3.5	CONTAMINATED TESTING	1.00	Each	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
2.1.3.6	TEMP WATER - PER CANTILEVER	2.00	EA	\$0.00	\$200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200,000.00	\$100,000.00	0.00
2.1.3.7	NEW HIRE ORIENTATION TRAINING	400.00	HR	\$28,518.32	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,518.32	\$71.30	400.00
2.1.3.8	ENVIRONMENTAL BMP'S	85,000.00	Each	\$0.00	\$85,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$85,000.00	\$1.00	0.00
2.1.3.9	SETUP CARPENTER FAB SHOP	1.00	LS	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
2.1.3.10	POWER SETUP - MAIN TOWERS	2.00	EA	\$0.00	\$400,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$400,000.00	\$200,000.00	0.00
2.1.3.11	POWER MONTHLY SUPPORT - SEGMENT CONSTRUCT	42.00	Month	\$0.00	\$336,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$336,000.00	\$8,000.00	0.00
2.1.3.12	INCIDENTAL OVERTIME PREMIUM @ 3% of Direct	8,820.00	HR	\$185,220.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$185,220.00	\$21.00	0.00
2.1.4	TEMP & CONSTRUCTION ENGINEERING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,270,900.00	\$0.00	\$1,270,900.00	\$1,270,900.00	0.00
2.1.4.1	TRESTLE DESIGN	300.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$66,000.00	\$0.00	\$66,000.00	\$220.00	0.00
2.1.4.2	SHAFT TEMPLATE DESIGN	250.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$55,000.00	\$0.00	\$55,000.00	\$220.00	0.00
2.1.4.3	PILE TEMPLATE DESIGN	200.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$44,000.00	\$0.00	\$44,000.00	\$220.00	0.00
2.1.4.4	FOUNDATION BOX FALSEWORK DESIGN	225.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$49,500.00	\$0.00	\$49,500.00	\$220.00	0.00
2.1.4.5	PIER TABLE FALSEWORK DESIGN	600.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$132,000.00	\$0.00	\$132,000.00	\$220.00	0.00
2.1.4.6	SEGMENTAL BOX FALSEWORK AND FORM DESIGN	800.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$176,000.00	\$0.00	\$176,000.00	\$220.00	0.00
2.1.4.7	PILE DRIVE TRAIN ENGR	220.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$48,400.00	\$0.00	\$48,400.00	\$220.00	0.00



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2.1.4.8	INTEGRATE SHOP DRAWINGS - COLUMNS & SEGME	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$700,000.00	\$0.00	\$700,000.00	\$700,000.00	0.00
2.1.5	SURVEY (4 MAN TEAM AT \$27 K PER MO)	48.00	Month	\$0.00	\$0.00	\$0.00	\$0.00	\$1,296,000.00	\$0.00	\$1,296,000.00	\$27,000.00	0.00
2.2	DEMO INDIRECT	1.00	Each	\$1,703,200.59	\$3,003,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,706,450.59	\$4,706,450.59	18,967.00
2.2.1	DEMO STAFF	18,717.00	Hour	\$1,684,530.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,684,530.00	\$90.00	18,717.00
2.2.2	TEMP ENGINEERING	1.00	Each	\$0.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$2,000,000.00	0.00
2.2.2.1	MS DESIGN/ENGINEERING	1.00	Each	\$0.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$2,000,000.00	0.00
2.2.2.2	APPR DESIGN/ENGINEERING	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.2.2.3	GENERAL TEMP ENGINEERING	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
2.2.3	EQUIPMENT MOBILIZATION	1.00	Each	\$18,670.59	\$351,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$369,920.59	\$369,920.59	250.00
2.2.3.1	MATERIAL BARGES	2.00	Each	\$18,670.59	\$150,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$168,670.59	\$84,335.29	250.00
2.2.3.1.1	MOBE BARGES	2.00	Each	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$20,000.00	0.00
2.2.3.1.2	DECK MATERIAL BARGE SETUP - LABOR	250.00	Each	\$18,670.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,670.59	\$74.68	250.00
2.2.3.1.3	DECK MATERIAL BARG -STS	2.00	Each	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$25,000.00	0.00
2.2.3.1.4	SETUP FLEET BARGES - STS	2.00	Each	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$30,000.00	0.00
2.2.3.2	MOBE EXCAVATOR AND DEMO GEAR	4.00	Each	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,000.00	\$5,000.00	0.00
2.2.3.3	MOBE 300 TN CRAWLER	1.00	Each	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
2.2.3.4	MOBE RT CRANES ONTO DECK	2.00	Each	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,000.00	\$5,000.00	0.00
2.2.3.5	DEMOBE DEMO EQUIPMENT	1.00	LS	\$0.00	\$121,250.00	\$0.00	\$0.00	\$0.00	\$0.00	\$121,250.00	\$121,250.00	0.00
2.2.4	MATERIAL HANDLING	1.00	Each	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	0.00
2.2.5	STAFF MOBE	4.00	Each	\$0.00	\$100,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100,000.00	\$25,000.00	0.00
2.2.6	CRAFT SUBSISTENCE	104.00	Week	\$0.00	\$52,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$52,000.00	\$500.00	0.00
<b>3</b>	<b>TRAFFIC CONTROL</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$3,300,000.00	\$0.00	\$3,300,000.00	\$3,300,000.00	0.00
<b>4</b>	<b>ROADWORK</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$459,860.00	\$0.00	\$459,860.00	\$459,860.00	0.00
4.1	CLEARING AND GRUBBING	1.34	Acre	\$0.00	\$0.00	\$0.00	\$0.00	\$13,400.00	\$0.00	\$13,400.00	\$10,000.00	0.00
4.2	EMBANKMENT IN PLACE	12,756.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$446,460.00	\$0.00	\$446,460.00	\$35.00	0.00
<b>5</b>	<b>DRAINAGE AND SEWERS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$3,284,100.00	\$0.00	\$3,284,100.00	\$3,284,100.00	0.00
5.1	CONCRETE INLETS	8.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$16,800.00	\$0.00	\$16,800.00	\$2,100.00	0.00
5.2	DIVERSION MANHOLES	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$20,000.00	\$10,000.00	0.00
5.3	RETURN FLOW MANHOLES	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$6,000.00	\$0.00	\$6,000.00	\$3,000.00	0.00
5.4	VAULT WITH INTERNALS	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$400,000.00	\$0.00	\$400,000.00	\$200,000.00	0.00
5.5	PIPE, 12 INCH DIAMETER	740.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$162,800.00	\$0.00	\$162,800.00	\$220.00	0.00
5.6	PIPE, 15 INCH DIAMETER	400.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$136,000.00	\$0.00	\$136,000.00	\$340.00	0.00
5.7	PIPE, 18 INCH DIAMETER	5,085.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$2,542,500.00	\$0.00	\$2,542,500.00	\$500.00	0.00
<b>6</b>	<b>BRIDGES</b>	249,278.00	SF	\$23,983,367.15	\$21,457,846.58	\$16,807,502.52	\$23,562,171.44	\$37,680,256.90	\$0.00	\$125,971,144.59	\$505.34	306,861.54
6.1	SHORING, CRIBBING AND COFFERDAMS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.2	STRUCTURE EXCAVATION	303.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$15,150.00	\$0.00	\$15,150.00	\$50.00	0.00
6.3	GRANULAR STRUCTURE BACKFILL	96.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$7,200.00	\$0.00	\$7,200.00	\$75.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.4	FURNISH DRILLING EQUIPMENT	1.00	LS	\$182,008.33	\$25,200.00	\$0.00	\$6,519,501.90	\$0.00	\$0.00	\$6,726,710.23	\$6,726,710.23	2,100.00
6.4.1	LABOR	1.00	LS	\$182,008.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$182,008.33	\$182,008.33	2,100.00
6.4.1.1	MOBE DRILL RIG	3.00	EA	\$78,003.57	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$78,003.57	\$26,001.19	900.00
6.4.1.2	SETUP TANK FARM	3.00	EA	\$104,004.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$104,004.76	\$34,668.25	1,200.00
6.4.2	STS - SHAFTS	1.00	LS	\$0.00	\$25,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,200.00	\$25,200.00	0.00
6.4.2.1	MHR STS	2,100.00	HR	\$0.00	\$25,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,200.00	\$12.00	0.00
6.4.3	EQUIPMENT-TRESTLE INSTALLED SHAFTS	33.00	Week	\$0.00	\$0.00	\$0.00	\$3,258,535.50	\$0.00	\$0.00	\$3,258,535.50	\$98,743.50	0.00
6.4.4	EQUIPMENT-MARINE DB INSTALLED SHAFTS	24.00	Week	\$0.00	\$0.00	\$0.00	\$3,260,966.40	\$0.00	\$0.00	\$3,260,966.40	\$135,873.60	0.00
6.5	DRILLED SHAFT CONCRETE	4,204.00	CY	\$522,589.24	\$72,348.00	\$922,640.00	\$0.00	\$92,480.00	\$0.00	\$1,610,057.24	\$382.98	6,029.60
6.5.1	LABOR	3,514.00	CY	\$522,589.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$522,589.24	\$148.72	6,029.60
6.5.1.1	POUR CONCRETE - FROM TRESTLE	3,514.00	CY	\$121,824.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$121,824.24	\$34.67	1,405.60
6.5.1.2	POUR CONCRETE - MARINE DELIVERY	3,514.00	CY	\$304,560.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$304,560.60	\$86.67	3,514.00
6.5.1.3	MINOR MOVES - TRESTLE	6.00	EA	\$18,200.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,200.83	\$3,033.47	210.00
6.5.1.4	MAJOR MOVES - MARINE	2.00	EA	\$12,133.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,133.89	\$6,066.94	140.00
6.5.1.5	CLEAN SHAFT TOPS	38.00	EA	\$65,869.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$65,869.68	\$1,733.41	760.00
6.5.2	STS	4,204.00	CY	\$0.00	\$72,348.00	\$0.00	\$0.00	\$0.00	\$0.00	\$72,348.00	\$17.21	0.00
6.5.2.1	MHR STS	6,029.00	HR	\$0.00	\$72,348.00	\$0.00	\$0.00	\$0.00	\$0.00	\$72,348.00	\$12.00	0.00
6.5.3	PMS/SUBS	1,440.00	LF	\$0.00	\$0.00	\$922,640.00	\$0.00	\$92,480.00	\$0.00	\$1,015,120.00	\$704.94	0.00
6.5.3.1	SHAFT CONCRETE	4,624.00	CY	\$0.00	\$0.00	\$809,200.00	\$0.00	\$0.00	\$0.00	\$809,200.00	\$175.00	0.00
6.5.3.2	MARINE DELIVERY CHARGE FOR CONCRETE	2,836.00	CY	\$0.00	\$0.00	\$113,440.00	\$0.00	\$0.00	\$0.00	\$113,440.00	\$40.00	0.00
6.5.3.3	CONCRETE PUMP	4,624.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$92,480.00	\$0.00	\$92,480.00	\$20.00	0.00
6.6	DRILLED SHAFT REINFORCEMENT	527,100.00	LB	\$184,435.10	\$25,536.00	\$131,250.00	\$0.00	\$696,120.00	\$0.00	\$1,037,341.10	\$1.97	2,128.00
6.6.1	LABOR	527,100.00	LB	\$184,435.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$184,435.10	\$0.35	2,128.00
6.6.1.1	ASSIST CAGE INSTALL	38.00	EA	\$184,435.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$184,435.10	\$4,853.56	2,128.00
6.6.2	STS	1.00	LS	\$0.00	\$25,536.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,536.00	\$25,536.00	0.00
6.6.2.1	MHR STS	2,128.00	HR	\$0.00	\$25,536.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,536.00	\$12.00	0.00
6.6.3	PMS/SUBS	1,440.00	LF	\$0.00	\$0.00	\$131,250.00	\$0.00	\$696,120.00	\$0.00	\$827,370.00	\$574.56	0.00
6.6.3.1	F&I REBAR	527,100.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$632,520.00	\$0.00	\$632,520.00	\$1.20	0.00
6.6.3.2	REBAR CAGE BRACING	53,000.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$63,600.00	\$0.00	\$63,600.00	\$1.20	0.00
6.6.3.3	REBAR COUPLERS	750.00	EA	\$0.00	\$0.00	\$131,250.00	\$0.00	\$0.00	\$0.00	\$131,250.00	\$175.00	0.00
6.7	CSL TEST ACCESS TUBES	20,360.00	FT	\$77,272.47	\$4,104.00	\$43,205.73	\$0.00	\$0.00	\$0.00	\$124,582.20	\$6.12	891.56
6.7.1	LABOR	20,360.00	FT	\$77,272.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$77,272.47	\$3.80	891.56
6.7.1.1	INSTALL CSL	99.06	EA	\$51,514.98	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$51,514.98	\$520.02	594.38
6.7.1.2	GROUT CSL	99.06	EA	\$25,757.49	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,757.49	\$260.01	297.19
6.7.2	PMS/SUBS	1.00	LS	\$0.00	\$0.00	\$43,205.73	\$0.00	\$0.00	\$0.00	\$43,205.73	\$43,205.73	0.00
6.7.2.1	CSL TUBES	7,810.00	LF	\$0.00	\$0.00	\$39,050.00	\$0.00	\$0.00	\$0.00	\$39,050.00	\$5.00	0.00
6.7.2.2	GROUTS	277.05	CF	\$0.00	\$0.00	\$4,155.73	\$0.00	\$0.00	\$0.00	\$4,155.73	\$15.00	0.00

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6.7.3	STS	20,360.00	FT	\$0.00	\$4,104.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,104.00	\$0.20	0.00
6.7.3.1	STS	1.00	LS	\$0.00	\$4,104.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,104.00	\$4,104.00	0.00
6.7.3.1.1	MHR STS	342.00	HR	\$0.00	\$4,104.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,104.00	\$12.00	0.00
6.8	CSL TESTS	38.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$1,500.00	0.00
6.8.1	PMS/SUBS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$57,000.00	0.00
6.8.1.1	CSL TESTING	38.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$57,000.00	\$0.00	\$57,000.00	\$1,500.00	0.00
6.9	DRILLED SHAFT EXCAVATION, 72 INCH DIAMETER	1,637.00	FT	\$878,190.18	\$1,876,498.37	\$864,008.60	\$0.00	\$17,700.00	\$0.00	\$3,636,397.15	\$2,221.38	10,132.50
6.9.1	LABOR	1,637.00	LF	\$878,190.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$878,190.18	\$536.46	10,132.50
6.9.1.1	SET /REM SHAFT SUPPORT TEMPLATE BTS 2-6,11-13	8.00	EA	\$145,606.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$145,606.66	\$18,200.83	1,680.00
6.9.1.2	SURFACE CASING IN/OUT	26.00	EA	\$78,870.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$78,870.28	\$3,033.47	910.00
6.9.1.3	DRILL SOIL	26.00	EA	\$315,481.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$315,481.10	\$12,133.89	3,640.00
6.9.1.4	CLEAN & INSPECT HOLE	26.00	EA	\$78,870.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$78,870.28	\$3,033.47	910.00
6.9.1.5	HANDLE/LOAD SPOILS	885.00	CY	\$38,351.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38,351.75	\$43.34	442.50
6.9.1.6	OPERATE DEWATER	17.00	Week	\$147,340.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$147,340.07	\$8,667.06	1,700.00
6.9.1.7	DRILL TOOL REPAIR	17.00	Week	\$73,670.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$73,670.04	\$4,333.53	850.00
6.9.2	STS	1,637.00	LF	\$0.00	\$1,876,498.37	\$0.00	\$0.00	\$0.00	\$0.00	\$1,876,498.37	\$1,146.30	0.00
6.9.2.1	TREMIE SYSTEM	1.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.9.2.2	6' AUGER	1.00	EA	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.9.2.3	6' DR BUCKET	1.00	EA	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.9.2.4	6' C/O BUCKET	1.00	EA	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$40,000.00	0.00
6.9.2.5	DRILL TEETH	1,600.00	EA	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$25.00	0.00
6.9.2.6	PUMPS/HOSES	1.00	LS	\$0.00	\$80,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	0.00
6.9.2.7	SLURRY MATERIAL	1.00	LS	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.9.2.8	WATER DISPOSAL	296,423.72	Gallon	\$0.00	\$29,642.37	\$0.00	\$0.00	\$0.00	\$0.00	\$29,642.37	\$0.10	0.00
6.9.2.9	RIGGING	1.00	LS	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	0.00
6.9.2.10	BAKER TANK MOBE	15.00	EA	\$0.00	\$4,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,500.00	\$300.00	0.00
6.9.2.11	SLURRY CONSULT	5.00	Week	\$0.00	\$37,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37,500.00	\$7,500.00	0.00
6.9.2.12	SHAFT OUTER CASING 8' DIA - 1" thickness	1,316.00	LF	\$0.00	\$713,272.00	\$0.00	\$0.00	\$0.00	\$0.00	\$713,272.00	\$542.00	0.00
6.9.2.13	TEMPLATE STEEL - BENTS 2-6, 11-13	8.00	EA	\$0.00	\$640,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$640,000.00	\$80,000.00	0.00
6.9.2.14	MHR STS	10,132.00	HR	\$0.00	\$121,584.00	\$0.00	\$0.00	\$0.00	\$0.00	\$121,584.00	\$12.00	0.00
6.9.3	PMS/SUBS	1,637.00	LF	\$0.00	\$0.00	\$864,008.60	\$0.00	\$17,700.00	\$0.00	\$881,708.60	\$538.61	0.00
6.9.3.1	HAUL/DISPOSE SPOILS	885.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$17,700.00	\$0.00	\$17,700.00	\$20.00	0.00
6.9.3.2	PERMANENT CASING (#754 PER LF)	1,234,298.00	LB	\$0.00	\$0.00	\$864,008.60	\$0.00	\$0.00	\$0.00	\$864,008.60	\$0.70	0.00
6.10	DRILLED SHAFT EXCAVATION, 96 INCH DIAMETER	1,444.00	FT	\$674,904.21	\$2,522,019.15	\$1,013,351.50	\$0.00	\$31,280.00	\$0.00	\$4,241,554.86	\$2,937.36	7,787.00
6.10.1	LABOR	1,440.00	LF	\$674,904.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$674,904.21	\$468.68	7,787.00
6.10.1.1	SET /REM SHAFT SUPPORT TEMPLATE BTS 7,8,9	3.00	EA	\$136,506.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$136,506.25	\$45,502.08	1,575.00
6.10.1.2	DRILL SOIL	12.00	EA	\$218,409.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$218,409.99	\$18,200.83	2,520.00

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6.10.1.3	CLEAN & INSPECT HOLE	12.00	EA	\$46,802.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$46,802.14	\$3,900.18	540.00
6.10.1.4	HANDLE/LOAD SPOILS	1,564.00	CY	\$67,776.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$67,776.43	\$43.34	782.00
6.10.1.5	OPERATE DEWATER	13.00	Week	\$112,671.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$112,671.82	\$8,667.06	1,300.00
6.10.1.6	DRILL TOOL REPAIR	13.00	Week	\$56,335.91	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,335.91	\$4,333.53	650.00
6.10.1.7	SURFACE CASING IN/OUT	12.00	EA	\$36,401.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$36,401.67	\$3,033.47	420.00
6.10.2	STS	1,440.00	LF	\$0.00	\$2,522,019.15	\$0.00	\$0.00	\$0.00	\$0.00	\$2,522,019.15	\$1,751.40	0.00
6.10.2.1	TREMIE SYSTEM	1.00	EA	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.10.2.2	8' AUGER	1.00	EA	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.10.2.3	8' DR BUCKET	1.00	EA	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.10.2.4	8' C/O BUCKET	1.00	EA	\$0.00	\$40,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,000.00	\$40,000.00	0.00
6.10.2.5	DRILL TEETH	60.00	EA	\$0.00	\$1,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500.00	\$25.00	0.00
6.10.2.6	PUMPS/HOSES	1.00	LS	\$0.00	\$80,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	0.00
6.10.2.7	SLURRY MATERIAL	1.00	LS	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.10.2.8	WATER DISPOSAL	260,751.47	Gallon	\$0.00	\$26,075.15	\$0.00	\$0.00	\$0.00	\$0.00	\$26,075.15	\$0.10	0.00
6.10.2.9	RIGGING	1.00	LS	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,000.00	\$20,000.00	0.00
6.10.2.10	BAKER TANK MOBE	14.00	EA	\$0.00	\$4,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,200.00	\$300.00	0.00
6.10.2.11	SLURRY CONSULT	6.00	Week	\$0.00	\$45,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$45,000.00	\$7,500.00	0.00
6.10.2.12	SHAFT OUTER CASING 10' DIA 1" thickness	900.00	LF	\$0.00	\$811,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$811,800.00	\$902.00	0.00
6.10.2.13	TEMPLATE STEEL - BENTS 8 & 9	2.00	EA	\$0.00	\$1,200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,000.00	\$600,000.00	0.00
6.10.2.14	MHR STS	7,787.00	HR	\$0.00	\$93,444.00	\$0.00	\$0.00	\$0.00	\$0.00	\$93,444.00	\$12.00	0.00
6.10.3	PMS/SUBS	1,440.00	LF	\$0.00	\$0.00	\$1,013,351.50	\$0.00	\$31,280.00	\$0.00	\$1,044,631.50	\$725.44	0.00
6.10.3.1	HAUL/DISPOSE SPOILS	1,564.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$31,280.00	\$0.00	\$31,280.00	\$20.00	0.00
6.10.3.2	PERMANENT CASING (#1005 PER LF)	1,447,645.00	LB	\$0.00	\$0.00	\$1,013,351.50	\$0.00	\$0.00	\$0.00	\$1,013,351.50	\$0.70	0.00
6.11	FURNISH PILE DRIVING EQUIPMENT	1.00	LS	\$0.00	\$0.00	\$0.00	\$965,427.68	\$0.00	\$0.00	\$965,427.68	\$965,427.68	0.00
6.11.1	EQUIP - DRIVE PERMANENT PILES	13.00	Week	\$0.00	\$0.00	\$0.00	\$786,200.09	\$0.00	\$0.00	\$786,200.09	\$60,476.93	0.00
6.11.1.1	MARINE DERRICK 300T +	13.00	Week	\$0.00	\$0.00	\$0.00	\$557,615.50	\$0.00	\$0.00	\$557,615.50	\$42,893.50	0.00
6.11.1.2	PILE BARGES 50 X 180	13.00	Week	\$0.00	\$0.00	\$0.00	\$65,000.00	\$0.00	\$0.00	\$65,000.00	\$5,000.00	0.00
6.11.1.3	PILE DRIVING LEADS	13.00	Week	\$0.00	\$0.00	\$0.00	\$28,600.00	\$0.00	\$0.00	\$28,600.00	\$2,200.00	0.00
6.11.1.4	PILE DRIVING D62 PILE HAMMER	13.00	Week	\$0.00	\$0.00	\$0.00	\$44,022.55	\$0.00	\$0.00	\$44,022.55	\$3,386.35	0.00
6.11.1.5	VIBRO PILE HAMMER 400	13.00	Week	\$0.00	\$0.00	\$0.00	\$56,714.84	\$0.00	\$0.00	\$56,714.84	\$4,362.68	0.00
6.11.1.6	MARINE DRIVING SPOTTER	13.00	Week	\$0.00	\$0.00	\$0.00	\$24,700.00	\$0.00	\$0.00	\$24,700.00	\$1,900.00	0.00
6.11.1.7	WELDING MACHINE	13.00	Week	\$0.00	\$0.00	\$0.00	\$9,547.20	\$0.00	\$0.00	\$9,547.20	\$734.40	0.00
6.11.2	EQUIP - DRIVE TEST PILES	3.00	Week	\$0.00	\$0.00	\$0.00	\$179,227.59	\$0.00	\$0.00	\$179,227.59	\$59,742.53	0.00
6.11.2.1	MARINE DERRICK 300T +	3.00	Week	\$0.00	\$0.00	\$0.00	\$128,680.50	\$0.00	\$0.00	\$128,680.50	\$42,893.50	0.00
6.11.2.2	PILE BARGES 50 X 180	3.00	Week	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$0.00	\$15,000.00	\$5,000.00	0.00
6.11.2.3	PILE DRIVING LEADS	3.00	Week	\$0.00	\$0.00	\$0.00	\$6,600.00	\$0.00	\$0.00	\$6,600.00	\$2,200.00	0.00
6.11.2.4	PILE DRIVING D62 PILE HAMMER	3.00	Week	\$0.00	\$0.00	\$0.00	\$10,159.05	\$0.00	\$0.00	\$10,159.05	\$3,386.35	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.11.2.5	VIBRO PILE HAMMER 400	3.00	Week	\$0.00	\$0.00	\$0.00	\$13,088.04	\$0.00	\$0.00	\$13,088.04	\$4,362.68	0.00
6.11.2.6	MARINE DRIVING SPOTTER	3.00	Week	\$0.00	\$0.00	\$0.00	\$5,700.00	\$0.00	\$0.00	\$5,700.00	\$1,900.00	0.00
6.12	FURNISH PP 48 X 0.5 STEEL PILES	11,610.00	FT	\$301,496.84	\$0.00	\$3,157,780.00	\$0.00	\$235,200.00	\$0.00	\$3,694,476.84	\$318.22	3,483.00
6.12.1	LABOR	11,610.00	FT	\$301,496.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$301,496.84	\$25.97	3,483.00
6.12.1.1	HANDLE/RECV 48" PIPE PILES	11,610.00	FT	\$200,997.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200,997.89	\$17.31	2,322.00
6.12.1.2	LOADOUT PIPE PILE FOR DRIVING	11,610.00	FT	\$100,498.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$100,498.95	\$8.66	1,161.00
6.12.2	PM	11,610.00	FT	\$0.00	\$0.00	\$3,157,780.00	\$0.00	\$235,200.00	\$0.00	\$3,392,980.00	\$292.25	0.00
6.12.2.1	REBAR CAGE 300# PER CY	168,000.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$235,200.00	\$0.00	\$235,200.00	\$1.40	0.00
6.12.2.2	PILE TOP CONCRETE	560.00	CY	\$0.00	\$0.00	\$117,600.00	\$0.00	\$0.00	\$0.00	\$117,600.00	\$210.00	0.00
6.12.2.3	CONCRETE MARINE DELIVERY	560.00	CY	\$0.00	\$0.00	\$44,800.00	\$0.00	\$0.00	\$0.00	\$44,800.00	\$80.00	0.00
6.12.2.4	FURNISH 48" PIPE PILES - 3/4" WALL 390#/LF	11,610.00	FT	\$0.00	\$0.00	\$2,786,400.00	\$0.00	\$0.00	\$0.00	\$2,786,400.00	\$240.00	0.00
6.12.2.5	FURNISH PILE COATING	11,610.00	FT	\$0.00	\$0.00	\$208,980.00	\$0.00	\$0.00	\$0.00	\$208,980.00	\$18.00	0.00
6.13	FURNISH PP 48 X 0.5 STEEL TEST PILES	923.00	FT	\$23,969.13	\$0.00	\$239,980.00	\$0.00	\$0.00	\$0.00	\$263,949.13	\$285.97	276.90
6.13.1	FURNISH 48" TEST PILES	923.00	FT	\$0.00	\$0.00	\$221,520.00	\$0.00	\$0.00	\$0.00	\$221,520.00	\$240.00	0.00
6.13.2	FURNISH PILE COATING	923.00	FT	\$0.00	\$0.00	\$18,460.00	\$0.00	\$0.00	\$0.00	\$18,460.00	\$20.00	0.00
6.13.3	HANDLE/RECV 48" PIPE PILES	923.00	FT	\$15,979.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,979.42	\$17.31	184.60
6.13.4	LOADOUT PIPE PILE FOR DRIVING	923.00	FT	\$7,989.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,989.71	\$8.66	92.30
6.14	DRIVE PP 48 X 0.5 STEEL PILES	11,610.00	FT	\$590,788.38	\$609,380.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,168.38	\$103.37	6,825.00
6.14.1	LABOR	11,610.00	FT	\$590,788.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$590,788.38	\$50.89	6,825.00
6.14.1.1	INITIAL ONSITE SETUP FOR PILE DRIVING	10.00	Calendar Da	\$60,593.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,593.68	\$6,059.37	700.00
6.14.1.2	INSTALL/REM PILE TEMPLATES (BTS 5,6,& 7)	3.00	EA	\$90,890.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$90,890.52	\$30,296.84	1,050.00
6.14.1.3	INSTALL/REM BUBBLE CURTAN FOR DRIVING (BTS 5	3.00	EA	\$18,178.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,178.10	\$6,059.37	210.00
6.14.1.4	DRIVE PILES (BASE LENGTHS)	75.00	EA	\$116,859.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$116,859.24	\$1,558.12	1,350.00
6.14.1.5	DRIVE UPPER PILE TO TIP	75.00	EA	\$71,413.98	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$71,413.98	\$952.19	825.00
6.14.1.6	CUTOFF PILE	75.00	EA	\$38,953.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38,953.08	\$519.37	450.00
6.14.1.7	SET PILE CAGE	80.00	EA	\$48,474.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48,474.94	\$605.94	560.00
6.14.1.8	FILL PILE W CONCRETE - TOP 15'	560.00	CY	\$145,424.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$145,424.83	\$259.69	1,680.00
6.14.2	STS	11,610.00	FT	\$0.00	\$609,380.00	\$0.00	\$0.00	\$0.00	\$0.00	\$609,380.00	\$52.49	0.00
6.14.2.1	PILE DRIVING TEMPLATES	3.00	EA	\$0.00	\$450,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$450,000.00	\$150,000.00	0.00
6.14.2.2	MHR STS	6,615.00	HR	\$0.00	\$79,380.00	\$0.00	\$0.00	\$0.00	\$0.00	\$79,380.00	\$12.00	0.00
6.14.2.3	BUBBLE CURTIAN	1.00	LS	\$0.00	\$80,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80,000.00	\$80,000.00	0.00
6.14.3	SUBS	5,532.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.15	DRIVE TEST PILES	923.00	FT	\$89,435.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$89,435.58	\$96.90	1,064.00
6.15.1	INITIAL ONSITE SETUP FOR PILE DRIVING	5.00	Calendar Da	\$29,419.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$29,419.60	\$5,883.92	350.00
6.15.2	INSTALL/REM PILE TEMPLATES (BTS 5,6,& 7)	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.15.3	DRIVE PILES (BASE LENGTHS)	6.00	EA	\$16,138.75	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,138.75	\$2,689.79	192.00
6.15.4	SPLICE PILES IN PLACE	6.00	EA	\$35,303.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$35,303.52	\$5,883.92	420.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.15.5	DRIVE UPPER PILE TO TIP	6.00	EA	\$5,547.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,547.70	\$924.62	66.00
6.15.6	CUTOFF PILE	6.00	EA	\$3,026.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,026.02	\$504.34	36.00
6.16	PILE LOAD TEST (DYNAMIC)	6.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$90,000.00	\$0.00	\$90,000.00	\$15,000.00	0.00
6.17	PP 48 X 0.5 STEEL PILE SPLICES	204.00	EA	\$413,876.48	\$0.00	\$0.00	\$771,080.86	\$0.00	\$0.00	\$1,184,957.33	\$5,808.61	4,781.25
6.17.1	SPLICE PILES IN PLACE	136.61	EA	\$413,876.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$413,876.48	\$3,029.68	4,781.25
6.17.2	EQUIP	12.75	Week	\$0.00	\$0.00	\$0.00	\$771,080.86	\$0.00	\$0.00	\$771,080.86	\$60,476.93	0.00
6.17.2.1	MARINE DERRICK 300T +	12.75	Week	\$0.00	\$0.00	\$0.00	\$546,892.13	\$0.00	\$0.00	\$546,892.13	\$42,893.50	0.00
6.17.2.2	PILE BARGES 50 X 180	12.75	Week	\$0.00	\$0.00	\$0.00	\$63,750.00	\$0.00	\$0.00	\$63,750.00	\$5,000.00	0.00
6.17.2.3	PILE DRIVING LEADS	12.75	Week	\$0.00	\$0.00	\$0.00	\$28,050.00	\$0.00	\$0.00	\$28,050.00	\$2,200.00	0.00
6.17.2.4	PILE DRIVING D62 PILE HAMMER	12.75	Week	\$0.00	\$0.00	\$0.00	\$43,175.96	\$0.00	\$0.00	\$43,175.96	\$3,386.35	0.00
6.17.2.5	VIBRO PILE HAMMER 400	12.75	Week	\$0.00	\$0.00	\$0.00	\$55,624.17	\$0.00	\$0.00	\$55,624.17	\$4,362.68	0.00
6.17.2.6	MARINE DRIVING SPOTTER	12.75	Week	\$0.00	\$0.00	\$0.00	\$24,225.00	\$0.00	\$0.00	\$24,225.00	\$1,900.00	0.00
6.17.2.7	WELDING MACHINE	12.75	Week	\$0.00	\$0.00	\$0.00	\$9,363.60	\$0.00	\$0.00	\$9,363.60	\$734.40	0.00
6.18	REINFORCEMENT	7,882,790.00	LB	\$330,156.35	\$0.00	\$0.00	\$0.00	\$10,878,250.20	\$0.00	\$11,208,406.55	\$1.42	3,942.00
6.18.1	FURN REINFORCEMENT	7,882,790.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$10,878,250.20	\$0.00	\$10,878,250.20	\$1.38	0.00
6.18.2	REBAR SUPPORT	3,942.00	TN	\$330,156.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$330,156.35	\$83.75	3,942.00
6.19	COATED REINFORCEMENT	1,612,435.00	LB	\$67,505.33	\$0.00	\$0.00	\$0.00	\$2,628,269.05	\$0.00	\$2,695,774.38	\$1.67	806.00
6.19.1	COATED REINFORCEMENT	1,612,435.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$2,628,269.05	\$0.00	\$2,628,269.05	\$1.63	0.00
6.19.2	REBAR SUPPORT	806.00	TN	\$67,505.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$67,505.33	\$83.75	806.00
6.20	FOUNDATION CONCRETE, CLASS 4000	10,027.00	CY	\$2,508,388.45	\$1,850,492.00	\$2,206,089.79	\$3,817,643.72	\$650,540.00	\$0.00	\$11,033,153.96	\$1,100.34	32,255.94
6.20.1	CL X CONC - PRECAST FOOTING BOX	2,903.00	CY	\$1,155,229.31	\$442,968.00	\$638,660.00	\$3,228,381.00	\$508,060.00	\$0.00	\$5,973,298.31	\$2,057.63	14,463.94
6.20.1.1	LABOR	2,903.00	CY	\$1,155,229.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,155,229.31	\$397.94	14,463.94
6.20.1.1.1	CAST FOOTING BOX ON THE BARGE	2,903.00	CY	\$961,329.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$961,329.53	\$331.15	12,223.94
6.20.1.1.1.1	PREP CASTING BARGE	2.54	EA	\$71,874.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$71,874.43	\$28,311.54	913.93
6.20.1.1.1.2	S/S FORMS FOR PRECAST ELEMENT	22,848.27	SF	\$359,372.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$359,372.17	\$15.73	4,569.65
6.20.1.1.1.3	SET PICKING INSERTS	60.93	Each	\$57,499.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$57,499.55	\$943.72	731.14
6.20.1.1.1.4	PLACE PRECAST CONCRETE	2,903.00	CY	\$273,961.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$273,961.38	\$94.37	3,483.60
6.20.1.1.1.5	FINISH CONC AT PRECAST BOX	2,903.00	CY	\$182,640.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$182,640.92	\$62.91	2,322.40
6.20.1.1.1.6	CURE CONC AT P/C BOX	2,903.00	CY	\$15,981.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,981.08	\$5.51	203.21
6.20.1.1.2	SET FOOTING BOXES	14.00	EA	\$193,899.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$193,899.78	\$13,849.98	2,240.00
6.20.1.1.2.1	PICK AND SET FOOTING BOXES FROM TRESTLE	7.00	EA	\$84,831.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84,831.15	\$12,118.74	980.00
6.20.1.1.2.2	FLOAT AND SET FOOTING BOXES MARINE	6.00	EA	\$109,068.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$109,068.62	\$18,178.10	1,260.00
6.20.1.2	STS	1.00	LS	\$0.00	\$442,968.00	\$0.00	\$0.00	\$0.00	\$0.00	\$442,968.00	\$442,968.00	0.00
6.20.1.2.1	FURN PICKING INSERTS	48.00	EA	\$0.00	\$26,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26,400.00	\$550.00	0.00
6.20.1.2.2	MHR STS	14,464.00	HR	\$0.00	\$173,568.00	\$0.00	\$0.00	\$0.00	\$0.00	\$173,568.00	\$12.00	0.00
6.20.1.2.3	WALL FORMS AT P/C BOXES	3,200.00	SF	\$0.00	\$48,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48,000.00	\$15.00	0.00
6.20.1.2.4	FURNISH PILE SEALS	13.00	EA	\$0.00	\$195,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$195,000.00	\$15,000.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.20.1.3	PM	2,287.00	CY	\$0.00	\$0.00	\$638,660.00	\$0.00	\$0.00	\$0.00	\$638,660.00	\$279.26	0.00
6.20.1.3.1	FURN CL 4000 CONC FOR FOOTING BOX	2,903.00	CY	\$0.00	\$0.00	\$638,660.00	\$0.00	\$0.00	\$0.00	\$638,660.00	\$220.00	0.00
6.20.1.4	SUB	2,903.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$508,060.00	\$0.00	\$508,060.00	\$175.01	0.00
6.20.1.4.1	PUMP	2,903.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$58,060.00	\$0.00	\$58,060.00	\$20.00	0.00
6.20.1.4.2	TOW BARGE TO SITE	10.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$450,000.00	\$0.00	\$450,000.00	\$45,000.00	0.00
6.20.1.5	EQUIPMENT-TRESTLE INSTALLED BOXES	33.00	Week	\$0.00	\$0.00	\$0.00	\$1,095,237.00	\$0.00	\$0.00	\$1,095,237.00	\$33,189.00	0.00
6.20.1.6	EQUIPMENT-MARINE DB INSTALLED BOXES	24.00	Week	\$0.00	\$0.00	\$0.00	\$2,133,144.00	\$0.00	\$0.00	\$2,133,144.00	\$88,881.00	0.00
6.20.2	CL X CONC -CIP FOOTING CONC	6,238.00	CY	\$968,325.19	\$1,271,852.00	\$1,404,627.29	\$267,080.96	\$124,760.00	\$0.00	\$4,036,645.44	\$647.11	12,476.00
6.20.2.1	LABOR	6,238.00	CY	\$968,325.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$968,325.19	\$155.23	12,476.00
6.20.2.1.1	CONCRETE	6,238.00	CY	\$968,325.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$968,325.19	\$155.23	12,476.00
6.20.2.2	STS/PM/SUB	6,238.00	CY	\$0.00	\$1,271,852.00	\$1,404,627.29	\$0.00	\$124,760.00	\$0.00	\$2,801,239.29	\$449.06	0.00
6.20.2.2.1	PUMP	6,238.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$124,760.00	\$0.00	\$124,760.00	\$20.00	0.00
6.20.2.2.2	CONCRETE STS	12,476.00	HR	\$0.00	\$149,712.00	\$0.00	\$0.00	\$0.00	\$0.00	\$149,712.00	\$12.00	0.00
6.20.2.2.3	COFFERDAM AT BT 14	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
6.20.2.2.4	CONCRETE FORMWORK	35,000.00	SF	\$0.00	\$875,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$875,000.00	\$25.00	0.00
6.20.2.2.5	MASS CONCRETE	6,238.00	CY	\$0.00	\$187,140.00	\$0.00	\$0.00	\$0.00	\$0.00	\$187,140.00	\$30.00	0.00
6.20.2.2.6	CONCRETE PM	6,550.53	CY	\$0.00	\$0.00	\$1,203,660.14	\$0.00	\$0.00	\$0.00	\$1,203,660.14	\$183.75	0.00
6.20.2.2.7	MARINE DELIVERY	5,024.18	CY	\$0.00	\$0.00	\$200,967.15	\$0.00	\$0.00	\$0.00	\$200,967.15	\$40.00	0.00
6.20.2.3	EQUIPMENT	16.00	Week	\$0.00	\$0.00	\$0.00	\$267,080.96	\$0.00	\$0.00	\$267,080.96	\$16,692.56	0.00
6.20.3	CL X CONC (ABUTMENTS AND STEM WALLS)	886.00	CY	\$384,833.96	\$135,672.00	\$162,802.50	\$322,181.76	\$17,720.00	\$0.00	\$1,023,210.22	\$1,154.86	5,316.00
6.20.3.1	LABOR	886.00	CY	\$384,833.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$384,833.96	\$434.35	5,316.00
6.20.3.1.1	CONCRETE CL X FOOTING	886.00	CY	\$384,833.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$384,833.96	\$434.35	5,316.00
6.20.3.2	PM/STS/SUB	886.00	CY	\$0.00	\$135,672.00	\$162,802.50	\$0.00	\$17,720.00	\$0.00	\$316,194.50	\$356.88	0.00
6.20.3.2.1	PUMP	886.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$17,720.00	\$0.00	\$17,720.00	\$20.00	0.00
6.20.3.2.2	CONCRETE STS	5,316.00	HR	\$0.00	\$63,792.00	\$0.00	\$0.00	\$0.00	\$0.00	\$63,792.00	\$12.00	0.00
6.20.3.2.3	CONCRETE FORMWORK	3,000.00	SF	\$0.00	\$24,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,000.00	\$8.00	0.00
6.20.3.2.4	MASS CONCRETE	886.00	CY	\$0.00	\$26,580.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26,580.00	\$30.00	0.00
6.20.3.2.5	FALSEWORK	1,650.00	SF	\$0.00	\$16,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,500.00	\$10.00	0.00
6.20.3.2.6	CONCRETE PM	886.00	CY	\$0.00	\$0.00	\$162,802.50	\$0.00	\$0.00	\$0.00	\$162,802.50	\$183.75	0.00
6.20.3.2.7	FINISH STS	2,400.00	SF	\$0.00	\$4,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,800.00	\$2.00	0.00
6.20.3.3	EQUIPMENT	31.00	Week	\$0.00	\$0.00	\$0.00	\$322,181.76	\$0.00	\$0.00	\$322,181.76	\$10,392.96	0.00
6.21	GENERAL STRUCTURAL CONCRETE, CLASS 4000	34,479.00	CY	\$15,020,242.90	\$5,725,021.00	\$8,229,196.91	\$7,418,678.50	\$1,595,115.00	\$0.00	\$39,388,254.31	\$1,142.38	198,196.48
6.21.1	CL X CONC (COLUMN)	7,169.00	CY	\$2,837,993.79	\$1,335,360.00	\$1,655,490.00	\$1,088,268.00	\$143,380.00	\$0.00	\$7,060,491.79	\$984.86	36,565.00
6.21.1.1	LABOR	7,169.00	CY	\$2,837,993.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,837,993.79	\$395.87	36,565.00
6.21.1.1.1	CONCRETE COLUMNS	7,169.00	CY	\$2,782,110.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,782,110.97	\$388.08	35,845.00
6.21.1.1.2	STAIRTOWER	360.00	LF	\$55,882.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$55,882.83	\$155.23	720.00
6.21.1.2	STS/PM/SUB	7,169.00	CY	\$0.00	\$1,335,360.00	\$1,655,490.00	\$0.00	\$143,380.00	\$0.00	\$3,134,230.00	\$437.19	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.21.1.2.1	CONCRETE PUMP	7,169.00	CY	\$0.00	\$0.00	\$0.00	\$0.00	\$143,380.00	\$0.00	\$143,380.00	\$20.00	0.00
6.21.1.2.2	CONCRETE STS	36,565.00	HR	\$0.00	\$438,780.00	\$0.00	\$0.00	\$0.00	\$0.00	\$438,780.00	\$12.00	0.00
6.21.1.2.3	COLUMN FORMWORK - 4 Sets of Forms	27,536.00	SF	\$0.00	\$688,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$688,400.00	\$25.00	0.00
6.21.1.2.4	STAIRTOWER STS	360.00	LF	\$0.00	\$64,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$64,800.00	\$180.00	0.00
6.21.1.2.5	CONCRETE PM	7,169.00	CY	\$0.00	\$0.00	\$1,505,490.00	\$0.00	\$0.00	\$0.00	\$1,505,490.00	\$210.00	0.00
6.21.1.2.6	FINISH STS	71,690.00	SF	\$0.00	\$143,380.00	\$0.00	\$0.00	\$0.00	\$0.00	\$143,380.00	\$2.00	0.00
6.21.1.2.7	MARINE DELIVERY	3,750.00	CY	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$0.00	\$150,000.00	\$40.00	0.00
6.21.1.3	EQUIPMENT	42.00	Week	\$0.00	\$0.00	\$0.00	\$1,088,268.00	\$0.00	\$0.00	\$1,088,268.00	\$25,911.14	0.00
6.21.1.3.1	EQUIPMENT-TRESTLE	18.00	Week	\$0.00	\$0.00	\$0.00	\$302,832.00	\$0.00	\$0.00	\$302,832.00	\$16,824.00	0.00
6.21.1.3.2	EQUIPMENT-MARINE DB	24.00	Week	\$0.00	\$0.00	\$0.00	\$785,436.00	\$0.00	\$0.00	\$785,436.00	\$32,726.50	0.00
6.21.2	CL X CONC (PIER TABLE)	4,134.00	CY	\$3,499,431.64	\$1,496,785.00	\$953,426.91	\$1,495,351.50	\$563,280.00	\$0.00	\$8,008,275.05	\$1,937.17	46,940.00
6.21.2.1	LABOR	4,134.00	CY	\$3,499,431.64	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,499,431.64	\$846.50	46,940.00
6.21.2.1.1	PL/ST Pier Table FW	11,200.00	SF	\$417,486.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$417,486.52	\$37.28	5,600.00
6.21.2.1.2	F/P/S Pier Table	4,134.00	CY	\$3,081,945.12	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,081,945.12	\$745.51	41,340.00
6.21.2.2	STS/PM/SUB	4,134.00	CY	\$0.00	\$1,496,785.00	\$953,426.91	\$0.00	\$563,280.00	\$0.00	\$3,013,491.91	\$728.95	0.00
6.21.2.2.1	MHR STS	46,940.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$563,280.00	\$0.00	\$563,280.00	\$12.00	0.00
6.21.2.2.2	CONCRETE FORMWORK INITIAL FAB	15,770.00	SF	\$0.00	\$1,261,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,261,600.00	\$80.00	0.00
6.21.2.2.3	CONCRETE PM	4,134.00	CY	\$0.00	\$0.00	\$906,346.91	\$0.00	\$0.00	\$0.00	\$906,346.91	\$219.24	0.00
6.21.2.2.4	CONCRETE PUMP	4,134.00	CY	\$0.00	\$82,680.00	\$0.00	\$0.00	\$0.00	\$0.00	\$82,680.00	\$20.00	0.00
6.21.2.2.5	FINISH STS	205,010.00	SF	\$0.00	\$102,505.00	\$0.00	\$0.00	\$0.00	\$0.00	\$102,505.00	\$0.50	0.00
6.21.2.2.6	TINKER TOY F/W	1.00	LS	\$0.00	\$50,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$50,000.00	\$50,000.00	0.00
6.21.2.2.7	MARINE DELIVERY	1,177.00	CY	\$0.00	\$0.00	\$47,080.00	\$0.00	\$0.00	\$0.00	\$47,080.00	\$40.00	0.00
6.21.2.3	EQUIPMENT	13.27	Week	\$0.00	\$0.00	\$0.00	\$1,495,351.50	\$0.00	\$0.00	\$1,495,351.50	\$112,679.03	0.00
6.21.2.3.1	EQUIPMENT-TRESTLE	26.00	Week	\$0.00	\$0.00	\$0.00	\$437,424.00	\$0.00	\$0.00	\$437,424.00	\$16,824.00	0.00
6.21.2.3.2	EQUIPMENT-MARINE DB	35.00	Week	\$0.00	\$0.00	\$0.00	\$1,057,927.50	\$0.00	\$0.00	\$1,057,927.50	\$30,226.50	0.00
6.21.3	CL X CONC (BRIDGE BOX STRUCTURE)	23,176.00	CY	\$8,682,817.47	\$2,892,876.00	\$5,620,280.00	\$4,835,059.00	\$888,455.00	\$0.00	\$24,319,487.47	\$1,049.34	114,691.48
6.21.3.1	LABOR	23,176.00	CY	\$8,682,817.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,682,817.47	\$374.65	114,691.48
6.21.3.1.1	TRAVELER ASSEMBLY	4.00	EA	\$1,171,444.52	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,171,444.52	\$292,861.13	15,424.35
6.21.3.1.1.1	RECEIVE/ASSEMBLE/DISASSEMBLE TRAVELER (	8.00	EA	\$151,895.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$151,895.48	\$18,986.93	2,000.00
6.21.3.1.1.2	ERECT/TRAVELER	4.00	EA	\$145,819.66	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$145,819.66	\$36,454.91	1,920.00
6.21.3.1.1.3	REMOVE & RE-ERECT TRAVELER	22.00	EA	\$668,340.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$668,340.11	\$30,379.10	8,800.00
6.21.3.1.1.4	ASSEMBLE TRAVELER FORMS	12,468.00	SF	\$165,710.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$165,710.37	\$13.29	2,181.90
6.21.3.1.1.5	FAB BULKHEADS	3,483.00	SF	\$39,678.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,678.90	\$11.39	522.45
6.21.3.1.2	CIP SEGMENTS	23,176.00	CY	\$6,756,960.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,756,960.19	\$291.55	89,297.13
6.21.3.1.3	CIP SEGMENT LEARNING CURVE	1.00	LS	\$472,926.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$472,926.76	\$472,926.76	6,250.00
6.21.3.1.4	CLOSURES	248.00	CY	\$281,486.01	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$281,486.01	\$1,135.02	3,720.00
6.21.3.2	STS/PM/SUB	23,176.00	CY	\$0.00	\$2,892,876.00	\$5,620,280.00	\$0.00	\$888,455.00	\$0.00	\$9,401,611.00	\$405.66	0.00



## Cost Breakdown Structure (CBS) Register

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

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6.21.3.2.1	MHR STS	114,691.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$573,455.00	\$0.00	\$573,455.00	\$5.00	0.00
6.21.3.2.2	CONCRETE PM	23,176.00	CY	\$0.00	\$0.00	\$4,866,960.00	\$0.00	\$0.00	\$0.00	\$4,866,960.00	\$210.00	0.00
6.21.3.2.3	CONCRETE PM OVERPOUR FOR DECK PROFILE	1,200.00	CY	\$0.00	\$0.00	\$252,000.00	\$0.00	\$0.00	\$0.00	\$252,000.00	\$210.00	0.00
6.21.3.2.4	FINISH STS	258.00	EA	\$0.00	\$516,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$516,000.00	\$2,000.00	0.00
6.21.3.2.5	CURE STS	23,176.00	CY	\$0.00	\$81,116.00	\$0.00	\$0.00	\$0.00	\$0.00	\$81,116.00	\$3.50	0.00
6.21.3.2.6	TRAVELER STS	258.00	EA	\$0.00	\$2,064,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,064,000.00	\$8,000.00	0.00
6.21.3.2.7	CONCRETE FORMWORK RESKIN	23,176.00	SF	\$0.00	\$231,760.00	\$0.00	\$0.00	\$0.00	\$0.00	\$231,760.00	\$10.00	0.00
6.21.3.2.8	MARINE DELIVERY	12,533.00	CY	\$0.00	\$0.00	\$501,320.00	\$0.00	\$0.00	\$0.00	\$501,320.00	\$40.00	0.00
6.21.3.2.9	PROFILE DECK - GRIND	210,000.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$315,000.00	\$0.00	\$315,000.00	\$1.50	0.00
6.21.3.3	EQUIPMENT -TRAVELER	24.00	Month	\$0.00	\$0.00	\$0.00	\$950,400.00	\$0.00	\$0.00	\$2,350,400.00	\$97,933.33	0.00
6.21.3.3.1	TRAVELERS ( \$350K per Year per Set x 4 Sets)	2.00	Year	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,400,000.00	\$700,000.00	0.00
6.21.3.3.2	GENERATORS	24.00	Month	\$0.00	\$0.00	\$0.00	\$950,400.00	\$0.00	\$0.00	\$950,400.00	\$39,600.00	0.00
6.21.3.4	EQUIPMENT - MARINE	61.00	Week	\$0.00	\$0.00	\$0.00	\$3,884,659.00	\$0.00	\$0.00	\$3,884,659.00	\$63,682.93	0.00
6.21.3.4.1	EQUIPMENT-TRESTLE	35.00	Week	\$0.00	\$0.00	\$0.00	\$1,177,680.00	\$0.00	\$0.00	\$1,177,680.00	\$33,648.00	0.00
6.21.3.4.2	EQUIPMENT-MARINE DB	43.00	Week	\$0.00	\$0.00	\$0.00	\$2,706,979.00	\$0.00	\$0.00	\$2,706,979.00	\$62,953.00	0.00
6.22	REINFORCED CONCRETE END PANELS	380.00	SY	\$0.00	\$0.00	\$0.00	\$0.00	\$68,400.00	\$0.00	\$68,400.00	\$180.00	0.00
6.23	POST-TENSIONING	2,228,617.00	LB	\$0.00	\$0.00	\$0.00	\$0.00	\$8,914,468.00	\$0.00	\$8,914,468.00	\$4.00	0.00
6.24	BEARING DEVICES, ABUTMENTS	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$17,000.00	\$0.00	\$17,000.00	\$8,500.00	0.00
6.25	BEARING DEVICES, BENT 2 & 14	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$28,000.00	\$0.00	\$28,000.00	\$14,000.00	0.00
6.26	2 INCH ELECTRICAL CONDUIT	8,800.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$264,000.00	\$0.00	\$264,000.00	\$30.00	0.00
6.27	MODULAR EXPANSION JOINT SEALS	113.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$36,160.00	\$0.00	\$36,160.00	\$320.00	0.00
6.28	COMBINATION BRIDGE RAIL	8,780.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$1,185,300.00	\$0.00	\$1,185,300.00	\$135.00	0.00
6.29	HANDRAIL PEDESTRIAN ORNAMENTAL	4,390.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$856,050.00	\$0.00	\$856,050.00	\$195.00	0.00
6.30	WORK BRIDGE, ALL ACCESS	1.00	LS	\$1,983,372.17	\$8,747,248.06	\$0.00	\$2,098,788.75	\$1,204,574.65	\$0.00	\$14,033,983.62	\$14,033,983.62	24,482.30
6.30.1	TRESTLE & MARINE ACCESS	1.00	LS	\$1,983,372.17	\$8,322,248.06	\$0.00	\$2,098,788.75	\$204,574.65	\$0.00	\$12,608,983.62	\$12,608,983.62	24,482.30
6.30.1.1	LOADOUT TRESTLE - HOOD RIVER	8,100.00	SF	\$170,523.94	\$1,198,418.23	\$0.00	\$221,442.34	\$18,881.71	\$0.00	\$1,609,266.22	\$198.67	2,095.68
6.30.1.1.1	Temporary Work Bridges - Furnish, Install & Remov	8,100.00	SF	\$170,523.94	\$1,198,418.23	\$0.00	\$221,442.34	\$18,881.71	\$0.00	\$1,609,266.22	\$198.67	2,095.68
6.30.1.1.1.1	Mob Equipment and Materials to/from Site	8,100.00	SF	\$18,043.80	\$1,141,502.23	\$0.00	\$44,246.37	\$18,881.71	\$0.00	\$1,222,674.12	\$150.95	215.86
6.30.1.1.1.1.1	Labor	8,100.00	SF	\$18,043.80	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,043.80	\$2.23	215.86
6.30.1.1.1.1.1.1	Handle Load/Unload Trestle Materials - Piles	25.18	EA	\$4,208.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,208.90	\$167.18	50.35
6.30.1.1.1.1.1.2	Handle Load/Unload Trestle Material - Caps	420,343.73	LB	\$8,784.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,784.22	\$0.02	105.09
6.30.1.1.1.1.1.3	Handle Load/Unload Trestle Material - Mats	40.28	EA	\$5,050.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,050.68	\$125.39	60.42
6.30.1.1.1.1.1.4	Shift Crane from Dock to Barge and Barge t	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.2	Supplies	8,100.00	SF	\$0.00	\$1,141,502.23	\$0.00	\$0.00	\$0.00	\$0.00	\$1,141,502.23	\$140.93	0.00
6.30.1.1.1.1.2.1	STS per MH @ 12.00	216.01	HR	\$0.00	\$2,592.08	\$0.00	\$0.00	\$0.00	\$0.00	\$2,592.08	\$12.00	0.00
6.30.1.1.1.1.2.2	Furnish Work Bridge Materials	8,100.00	SF	\$0.00	\$1,100,626.78	\$0.00	\$0.00	\$0.00	\$0.00	\$1,100,626.78	\$135.88	0.00
6.30.1.1.1.1.2.3	Furnish Reaction Piles for Shaft Installation	348.03	LF	\$0.00	\$38,283.38	\$0.00	\$0.00	\$0.00	\$0.00	\$38,283.38	\$110.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.1.1.1.3	Equipment	1.95	Week	\$0.00	\$0.00	\$0.00	\$44,246.37	\$0.00	\$0.00	\$44,246.37	\$22,669.44	0.00
6.30.1.1.1.1.3.1	Land Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.3.2	Land Cranes for durationn of Trestle Build	78.53	HR	\$0.00	\$0.00	\$0.00	\$40,927.07	\$0.00	\$0.00	\$40,927.07	\$521.19	0.00
6.30.1.1.1.1.3.3	Forklifts and Misc	78.53	HR	\$0.00	\$0.00	\$0.00	\$3,319.30	\$0.00	\$0.00	\$3,319.30	\$42.27	0.00
6.30.1.1.1.1.3.4	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.3.5	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.4	Subs	8,100.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$18,881.71	\$0.00	\$18,881.71	\$2.33	0.00
6.30.1.1.1.1.4.1	Towing 26 miles each way @ 4 Knots 16 hrs	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.4.2	Onsite tug service 16 hrs per week	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.1.4.3	Freight for materials - Girders and Caps	21.15	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$10,573.76	\$0.00	\$10,573.76	\$500.00	0.00
6.30.1.1.1.1.4.4	Freight for materials - Mats	4.53	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$2,265.80	\$0.00	\$2,265.80	\$500.00	0.00
6.30.1.1.1.1.4.5	Freight for materials - Piles	12.08	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$6,042.15	\$0.00	\$6,042.15	\$500.00	0.00
6.30.1.1.1.2	Instal/Reml Work Bridge	8,100.00	SF	\$152,480.13	\$56,916.00	\$0.00	\$177,195.97	\$0.00	\$0.00	\$386,592.11	\$47.73	1,879.82
6.30.1.1.1.2.1	Labor	8,100.00	SF	\$152,480.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$152,480.13	\$18.82	1,879.82
6.30.1.1.1.2.1.1	Handle / inst Trestle	8,100.00	SF	\$92,852.31	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$92,852.31	\$11.46	1,110.80
6.30.1.1.1.2.1.1.1	Handle Trestle Materials - Piles	25.18	EA	\$3,156.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,156.68	\$125.39	37.76
6.30.1.1.1.2.1.1.2	Handle Trestle Material - Caps and Girder	404,033.94	LB	\$15,198.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,198.09	\$0.04	181.82
6.30.1.1.1.2.1.1.3	Handle Trestle Material - Mats	40.28	EA	\$5,050.68	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,050.68	\$125.39	60.42
6.30.1.1.1.2.1.1.4	Drive Mooring Dolphin Piles	5.04	EA	\$2,104.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,104.45	\$417.95	25.18
6.30.1.1.1.2.1.1.5	Drive Trestle Piles - Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.1.1.6	Shift Crane from Barge to Trestle	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.1.1.7	Drive Trestle Piles - From Trestle	20.14	EA	\$6,734.24	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,734.24	\$334.36	80.56
6.30.1.1.1.2.1.1.8	Drive Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.1.1.9	Set Trestle Caps , Girders and Mats	9.06	EA	\$60,608.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,608.17	\$6,687.27	725.06
6.30.1.1.1.2.1.2	Remove and Handle Trestle	8,100.00	SF	\$59,627.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$59,627.82	\$7.36	769.03
6.30.1.1.1.2.1.2.1	Pull Trestle Piles From Trestle	20.14	EA	\$9,369.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,369.78	\$465.22	120.84
6.30.1.1.1.2.1.2.2	Pull Trestle Piles with Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.1.2.3	Rem Dolphin Piles	5.04	EA	\$2,342.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,342.45	\$465.22	30.21
6.30.1.1.1.2.1.2.4	Rem Trestle Caps , Girders and Mats /30	9.06	EA	\$28,109.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,109.35	\$3,101.48	362.53
6.30.1.1.1.2.1.2.5	Shift Crane from Trestle to Barge	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.1.2.6	Handle Trestle Materials - Piles	25.18	EA	\$2,196.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,196.04	\$87.23	28.32
6.30.1.1.1.2.1.2.7	Handle Trestle Material - Caps and Girder	404,009.17	LB	\$14,096.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,096.53	\$0.03	181.80
6.30.1.1.1.2.1.2.8	Handle Trestle Material - Mats	40.28	EA	\$3,513.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,513.67	\$87.23	45.32
6.30.1.1.1.2.1.2.9	Rem Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.2	Supplies	1.00	LS	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$56,916.00	0.00
6.30.1.1.1.2.2.1	STS per MH @ 12.00	4,743.00	HR	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$12.00	0.00
6.30.1.1.1.2.3	Equipment	5.37	Week	\$0.00	\$0.00	\$0.00	\$177,195.97	\$0.00	\$0.00	\$177,195.97	\$33,012.94	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.1.1.2.3.1	Land Cranes	212.25	HR	\$0.00	\$0.00	\$0.00	\$110,622.45	\$0.00	\$0.00	\$110,622.45	\$521.19	0.00
6.30.1.1.1.2.3.2	Forklifts and Misc	212.25	HR	\$0.00	\$0.00	\$0.00	\$8,971.80	\$0.00	\$0.00	\$8,971.80	\$42.27	0.00
6.30.1.1.1.2.3.3	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.1.1.2.3.4	Barges	212.25	HR	\$0.00	\$0.00	\$0.00	\$28,621.88	\$0.00	\$0.00	\$28,621.88	\$134.85	0.00
6.30.1.1.1.2.3.5	Misc Equipment	149.79	HR	\$0.00	\$0.00	\$0.00	\$28,979.84	\$0.00	\$0.00	\$28,979.84	\$193.47	0.00
6.30.1.2	LOADOUT RAMP - HOOD RIVER	1.00	EA	\$74,228.67	\$220,960.47	\$0.00	\$45,338.87	\$2.33	\$0.00	\$340,530.35	\$340,530.35	888.00
6.30.1.2.1	INSTALL/REM LOADOUT RAMP	1.00	SF	\$74,228.67	\$220,960.47	\$0.00	\$45,338.87	\$2.33	\$0.00	\$340,530.35	\$340,530.35	888.00
6.30.1.2.1.1	Mob Equipment and Materials to/from Site	1.00	SF	\$74,228.67	\$220,960.47	\$0.00	\$45,338.87	\$2.33	\$0.00	\$340,530.35	\$340,530.35	888.00
6.30.1.2.1.1.1	Labor	1.00	SF	\$74,228.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$74,228.67	\$74,228.67	888.00
6.30.1.2.1.1.1.1	Handle Load/Unload RAMP Materials - Piles	12.00	EA	\$2,006.18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,006.18	\$167.18	24.00
6.30.1.2.1.1.1.2	Handle Load/Unload RAMP Material - RAMP	60,000.00	LB	\$10,030.90	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,030.90	\$0.17	120.00
6.30.1.2.1.1.1.3	INST/REM LOADOUT RAMP PILES	12.00	EA	\$14,043.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,043.26	\$1,170.27	168.00
6.30.1.2.1.1.1.4	INST/REM LOADOUT RAMP	80.00	HR	\$48,148.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48,148.33	\$601.85	576.00
6.30.1.2.1.1.2	Supplies	1.00	SF	\$0.00	\$220,960.47	\$0.00	\$0.00	\$0.00	\$0.00	\$220,960.47	\$220,960.47	0.00
6.30.1.2.1.1.2.1	STS per MH @ 12.00	0.02	HR	\$0.00	\$0.28	\$0.00	\$0.00	\$0.00	\$0.00	\$0.28	\$12.00	0.00
6.30.1.2.1.1.2.2	Furnish PILE Materials	1,200.00	LF	\$0.00	\$95,960.19	\$0.00	\$0.00	\$0.00	\$0.00	\$95,960.19	\$79.97	0.00
6.30.1.2.1.1.2.3	Furnish RAMP	1.00	EA	\$0.00	\$125,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$125,000.00	\$125,000.00	0.00
6.30.1.2.1.1.3	Equipment	2.00	Week	\$0.00	\$0.00	\$0.00	\$45,338.87	\$0.00	\$0.00	\$45,338.87	\$22,669.44	0.00
6.30.1.2.1.1.3.1	Land Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.2.1.1.3.2	Land Cranes for duration of Trestle Build	80.47	HR	\$0.00	\$0.00	\$0.00	\$41,937.61	\$0.00	\$0.00	\$41,937.61	\$521.19	0.00
6.30.1.2.1.1.3.3	Forklifts and Misc	80.47	HR	\$0.00	\$0.00	\$0.00	\$3,401.26	\$0.00	\$0.00	\$3,401.26	\$42.27	0.00
6.30.1.2.1.1.3.4	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.2.1.1.3.5	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.2.1.1.4	Subs	1.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$2.33	\$0.00	\$2.33	\$2.33	0.00
6.30.1.2.1.1.4.1	Towing 26 miles each way @ 4 Knots 16 hrs	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.2.1.1.4.2	Onsite tug service 16 hrs per week	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.2.1.1.4.3	Freight for materials - Girders and Caps	0.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$1.33	\$0.00	\$1.33	\$500.00	0.00
6.30.1.2.1.1.4.4	Freight for materials - Mats	0.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$0.29	\$0.00	\$0.29	\$500.00	0.00
6.30.1.2.1.1.4.5	Freight for materials - Piles	0.00	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$0.71	\$0.00	\$0.71	\$500.00	0.00
6.30.1.3	ACCESS TRESTLE - HOOD RIVER	34,200.00	SF	\$773,411.87	\$2,932,847.99	\$0.00	\$811,780.71	\$79,722.76	\$0.00	\$4,597,763.33	\$134.44	9,252.35
6.30.1.3.1	Temporary Work Bridges - Furnish, Install & Remove	34,200.00	SF	\$773,411.87	\$2,932,847.99	\$0.00	\$811,780.71	\$79,722.76	\$0.00	\$4,597,763.33	\$134.44	9,252.35
6.30.1.3.1.1	Mob Equipment and Materials to/from Site	34,200.00	SF	\$76,184.95	\$2,875,931.99	\$0.00	\$72,290.80	\$79,722.76	\$0.00	\$3,104,130.50	\$90.76	911.40
6.30.1.3.1.1.1	Labor	34,200.00	SF	\$76,184.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$76,184.95	\$2.23	911.40
6.30.1.3.1.1.1.1	Handle Load/Unload Trestle Materials - Piles	106.30	EA	\$17,770.91	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,770.91	\$167.18	212.59
6.30.1.3.1.1.1.2	Handle Load/Unload Trestle Material - Caps	1,774,784.65	LB	\$37,088.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$37,088.94	\$0.02	443.70
6.30.1.3.1.1.1.3	Handle Load/Unload Trestle Material - Mats	170.08	EA	\$21,325.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,325.10	\$125.39	255.11
6.30.1.3.1.1.1.4	Shift Crane from Dock to Barge and Barge to	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.3.1.1.2	Supplies	34,200.00	SF	\$0.00	\$2,875,931.99	\$0.00	\$0.00	\$0.00	\$0.00	\$2,875,931.99	\$84.09	0.00
6.30.1.3.1.1.2.1	STS per MH @ 12.00	912.03	HR	\$0.00	\$10,944.34	\$0.00	\$0.00	\$0.00	\$0.00	\$10,944.34	\$12.00	0.00
6.30.1.3.1.1.2.2	Furnish Work Bridge Materials	34,200.00	SF	\$0.00	\$2,703,346.73	\$0.00	\$0.00	\$0.00	\$0.00	\$2,703,346.73	\$79.05	0.00
6.30.1.3.1.1.2.3	Furnish Reaction Piles for Shaft Installation	1,469.46	LF	\$0.00	\$161,640.92	\$0.00	\$0.00	\$0.00	\$0.00	\$161,640.92	\$110.00	0.00
6.30.1.3.1.1.3	Equipment	3.19	Week	\$0.00	\$0.00	\$0.00	\$72,290.80	\$0.00	\$0.00	\$72,290.80	\$22,669.44	0.00
6.30.1.3.1.1.3.1	Land Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.1.3.2	Land Cranes for durationn of Trestle Build	128.30	HR	\$0.00	\$0.00	\$0.00	\$66,867.64	\$0.00	\$0.00	\$66,867.64	\$521.19	0.00
6.30.1.3.1.1.3.3	Forklifts and Misc	128.30	HR	\$0.00	\$0.00	\$0.00	\$5,423.16	\$0.00	\$0.00	\$5,423.16	\$42.27	0.00
6.30.1.3.1.1.3.4	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.1.3.5	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.1.4	Subs	34,200.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$79,722.76	\$0.00	\$79,722.76	\$2.33	0.00
6.30.1.3.1.1.4.1	Towing 26 miles each way @ 4 Knots 16 hrs	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.1.4.2	Onsite tug service 16 hrs per week	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.1.4.3	Freight for materials - Girders and Caps	89.29	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$44,644.74	\$0.00	\$44,644.74	\$500.00	0.00
6.30.1.3.1.1.4.4	Freight for materials - Mats	19.13	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$9,566.73	\$0.00	\$9,566.73	\$500.00	0.00
6.30.1.3.1.1.4.5	Freight for materials - Piles	51.02	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$25,511.28	\$0.00	\$25,511.28	\$500.00	0.00
6.30.1.3.1.2	Instal/Repl Work Bridge	34,200.00	SF	\$697,226.92	\$56,916.00	\$0.00	\$739,489.91	\$0.00	\$0.00	\$1,493,632.83	\$43.67	8,340.95
6.30.1.3.1.2.1	Labor	34,200.00	SF	\$697,226.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$697,226.92	\$20.39	8,340.95
6.30.1.3.1.2.1.1	Handle / inst Trestle	34,200.00	SF	\$425,807.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$425,807.84	\$12.45	5,093.95
6.30.1.3.1.2.1.1.1	Handle Trestle Materials - Piles	106.30	EA	\$13,328.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$13,328.19	\$125.39	159.45
6.30.1.3.1.2.1.1.2	Handle Trestle Material - Caps and Girder	1,705,921.10	LB	\$64,169.73	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$64,169.73	\$0.04	767.66
6.30.1.3.1.2.1.1.3	Handle Trestle Material - Mats	170.08	EA	\$21,325.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,325.10	\$125.39	255.11
6.30.1.3.1.2.1.1.4	Drive Mooring Dolphin Piles	21.26	EA	\$10,662.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,662.55	\$501.55	127.56
6.30.1.3.1.2.1.1.5	Drive Trestle Piles - Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.1.1.6	Shift Crane from Barge to Trestle	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.1.1.7	Drive Trestle Piles - From Trestle	85.04	EA	\$28,433.46	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,433.46	\$334.36	340.15
6.30.1.3.1.2.1.1.8	Drive Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.1.1.9	Set Trestle Caps , Girders and Mats	38.27	EA	\$287,888.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$287,888.82	\$7,523.18	3,444.02
6.30.1.3.1.2.1.2	Remove and Handle Trestle	34,200.00	SF	\$271,419.08	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$271,419.08	\$7.94	3,247.00
6.30.1.3.1.2.1.2.1	Pull Trestle Piles From Trestle	85.04	EA	\$42,650.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42,650.20	\$501.55	510.23
6.30.1.3.1.2.1.2.2	Pull Trestle Piles with Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.1.2.3	Rem Dolphin Piles	21.26	EA	\$10,662.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,662.55	\$501.55	127.56
6.30.1.3.1.2.1.2.4	Rem Trestle Caps , Girders and Mats /30	38.27	EA	\$127,950.59	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$127,950.59	\$3,343.63	1,530.68
6.30.1.3.1.2.1.2.5	Shift Crane from Trestle to Barge	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.1.2.6	Handle Trestle Materials - Piles	106.30	EA	\$9,996.14	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,996.14	\$94.04	119.58
6.30.1.3.1.2.1.2.7	Handle Trestle Material - Caps and Girder	1,705,816.51	LB	\$64,165.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$64,165.79	\$0.04	767.62
6.30.1.3.1.2.1.2.8	Handle Trestle Material - Mats	170.08	EA	\$15,993.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,993.82	\$94.04	191.33

## Cost Breakdown Structure (CBS) Register

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.3.1.2.1.2.9	Rem Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.2	Supplies	1.00	LS	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$56,916.00	0.00
6.30.1.3.1.2.2.1	STS per MH @ 12.00	4,743.00	HR	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$12.00	0.00
6.30.1.3.1.2.3	Equipment	22.40	Week	\$0.00	\$0.00	\$0.00	\$739,489.91	\$0.00	\$0.00	\$739,489.91	\$33,012.94	0.00
6.30.1.3.1.2.3.1	Land Cranes	885.78	HR	\$0.00	\$0.00	\$0.00	\$461,659.40	\$0.00	\$0.00	\$461,659.40	\$521.19	0.00
6.30.1.3.1.2.3.2	Forklifts and Misc	885.78	HR	\$0.00	\$0.00	\$0.00	\$37,441.90	\$0.00	\$0.00	\$37,441.90	\$42.27	0.00
6.30.1.3.1.2.3.3	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.3.1.2.3.4	Barges	885.78	HR	\$0.00	\$0.00	\$0.00	\$119,447.36	\$0.00	\$0.00	\$119,447.36	\$134.85	0.00
6.30.1.3.1.2.3.5	Misc Equipment	625.12	HR	\$0.00	\$0.00	\$0.00	\$120,941.25	\$0.00	\$0.00	\$120,941.25	\$193.47	0.00
6.30.1.4	ACCESS TRESTLE - WASHINGTON	39,600.00	SF	\$837,060.76	\$3,448,263.43	\$0.00	\$909,028.70	\$92,310.56	\$0.00	\$5,286,663.45	\$133.50	10,713.25
6.30.1.4.1	Temporary Work Bridges - Furnish, Install & Remov	39,600.00	SF	\$837,060.76	\$3,448,263.43	\$0.00	\$909,028.70	\$92,310.56	\$0.00	\$5,286,663.45	\$133.50	10,713.25
6.30.1.4.1.1	Mob Equipment and Materials to/from Site	39,600.00	SF	\$88,214.15	\$3,391,347.43	\$0.00	\$83,705.14	\$92,310.56	\$0.00	\$3,655,577.29	\$92.31	1,055.31
6.30.1.4.1.1.1	Labor	39,600.00	SF	\$88,214.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$88,214.15	\$2.23	1,055.31
6.30.1.4.1.1.1.1	Handle Load/Unload Trestle Materials - Piles	123.08	EA	\$20,576.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,576.85	\$167.18	246.16
6.30.1.4.1.1.1.2	Handle Load/Unload Trestle Material - Caps	2,055,013.81	LB	\$42,945.09	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$42,945.09	\$0.02	513.75
6.30.1.4.1.1.1.3	Handle Load/Unload Trestle Material - Mats	196.93	EA	\$24,692.22	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,692.22	\$125.39	295.39
6.30.1.4.1.1.1.4	Shift Crane from Dock to Barge and Barge t	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.2	Supplies	39,600.00	SF	\$0.00	\$3,391,347.43	\$0.00	\$0.00	\$0.00	\$0.00	\$3,391,347.43	\$85.64	0.00
6.30.1.4.1.1.2.1	STS per MH @ 12.00	1,056.03	HR	\$0.00	\$12,672.39	\$0.00	\$0.00	\$0.00	\$0.00	\$12,672.39	\$12.00	0.00
6.30.1.4.1.1.2.2	Furnish Work Bridge Materials	39,600.00	SF	\$0.00	\$3,191,511.87	\$0.00	\$0.00	\$0.00	\$0.00	\$3,191,511.87	\$80.59	0.00
6.30.1.4.1.1.2.3	Furnish Reaction Piles for Shaft Installation	1,701.48	LF	\$0.00	\$187,163.17	\$0.00	\$0.00	\$0.00	\$0.00	\$187,163.17	\$110.00	0.00
6.30.1.4.1.1.3	Equipment	3.69	Week	\$0.00	\$0.00	\$0.00	\$83,705.14	\$0.00	\$0.00	\$83,705.14	\$22,669.44	0.00
6.30.1.4.1.1.3.1	Land Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.3.2	Land Cranes for durationn of Trestle Build	148.56	HR	\$0.00	\$0.00	\$0.00	\$77,425.69	\$0.00	\$0.00	\$77,425.69	\$521.19	0.00
6.30.1.4.1.1.3.3	Forklifts and Misc	148.56	HR	\$0.00	\$0.00	\$0.00	\$6,279.45	\$0.00	\$0.00	\$6,279.45	\$42.27	0.00
6.30.1.4.1.1.3.4	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.3.5	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.4	Subs	39,600.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$92,310.56	\$0.00	\$92,310.56	\$2.33	0.00
6.30.1.4.1.1.4.1	Towing 26 miles each way @ 4 Knots 16 hrs	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.4.2	Onsite tug service 16 hrs per week	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.1.4.3	Freight for materials - Girders and Caps	103.39	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$51,693.91	\$0.00	\$51,693.91	\$500.00	0.00
6.30.1.4.1.1.4.4	Freight for materials - Mats	22.15	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$11,077.27	\$0.00	\$11,077.27	\$500.00	0.00
6.30.1.4.1.1.4.5	Freight for materials - Piles	59.08	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$29,539.38	\$0.00	\$29,539.38	\$500.00	0.00
6.30.1.4.1.2	Instal/Reml Work Bridge	39,600.00	SF	\$748,846.60	\$56,916.00	\$0.00	\$825,323.56	\$0.00	\$0.00	\$1,631,086.16	\$41.19	9,657.94
6.30.1.4.1.2.1	Labor	39,600.00	SF	\$748,846.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$748,846.60	\$18.91	9,657.94
6.30.1.4.1.2.1.1	Handle / inst Trestle	39,600.00	SF	\$457,332.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$457,332.82	\$11.55	5,898.26
6.30.1.4.1.2.1.1.1	Handle Trestle Materials - Piles	123.08	EA	\$14,314.95	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$14,314.95	\$116.31	184.62

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.4.1.2.1.1.2	Handle Trestle Material - Caps and Girder	1,975,277.06	LB	\$68,920.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$68,920.58	\$0.03	888.87
6.30.1.4.1.2.1.1.3	Handle Trestle Material - Mats	196.93	EA	\$22,903.92	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22,903.92	\$116.31	295.39
6.30.1.4.1.2.1.1.4	Drive Mooring Dolphin Piles	24.62	EA	\$11,451.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,451.96	\$465.22	147.70
6.30.1.4.1.2.1.1.5	Drive Trestle Piles - Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.1.1.6	Shift Crane from Barge to Trestle	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.1.1.7	Drive Trestle Piles - From Trestle	98.46	EA	\$30,538.55	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,538.55	\$310.15	393.86
6.30.1.4.1.2.1.1.8	Drive Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.1.1.9	Set Trestle Caps , Girders and Mats	44.31	EA	\$309,202.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$309,202.87	\$6,978.32	3,987.82
6.30.1.4.1.2.1.2	Remove and Handle Trestle	39,600.00	SF	\$291,513.79	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$291,513.79	\$7.36	3,759.68
6.30.1.4.1.2.1.2.1	Pull Trestle Piles From Trestle	98.46	EA	\$45,807.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$45,807.83	\$465.22	590.79
6.30.1.4.1.2.1.2.2	Pull Trestle Piles with Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.1.2.3	Rem Dolphin Piles	24.62	EA	\$11,451.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,451.96	\$465.22	147.70
6.30.1.4.1.2.1.2.4	Rem Trestle Caps , Girders and Mats /30	44.31	EA	\$137,423.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$137,423.50	\$3,101.48	1,772.36
6.30.1.4.1.2.1.2.5	Shift Crane from Trestle to Barge	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.1.2.6	Handle Trestle Materials - Piles	123.08	EA	\$10,736.21	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,736.21	\$87.23	138.47
6.30.1.4.1.2.1.2.7	Handle Trestle Material - Caps and Girder	1,975,155.96	LB	\$68,916.35	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$68,916.35	\$0.03	888.82
6.30.1.4.1.2.1.2.8	Handle Trestle Material - Mats	196.93	EA	\$17,177.94	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,177.94	\$87.23	221.55
6.30.1.4.1.2.1.2.9	Rem Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.2	Supplies	1.00	LS	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$56,916.00	0.00
6.30.1.4.1.2.2.1	STS per MH @ 12.00	4,743.00	HR	\$0.00	\$56,916.00	\$0.00	\$0.00	\$0.00	\$0.00	\$56,916.00	\$12.00	0.00
6.30.1.4.1.2.3	Equipment	25.00	Week	\$0.00	\$0.00	\$0.00	\$825,323.56	\$0.00	\$0.00	\$825,323.56	\$33,012.94	0.00
6.30.1.4.1.2.3.1	Land Cranes	988.59	HR	\$0.00	\$0.00	\$0.00	\$515,244.87	\$0.00	\$0.00	\$515,244.87	\$521.19	0.00
6.30.1.4.1.2.3.2	Forklifts and Misc	988.59	HR	\$0.00	\$0.00	\$0.00	\$41,787.83	\$0.00	\$0.00	\$41,787.83	\$42.27	0.00
6.30.1.4.1.2.3.3	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.4.1.2.3.4	Barges	988.59	HR	\$0.00	\$0.00	\$0.00	\$133,311.79	\$0.00	\$0.00	\$133,311.79	\$134.85	0.00
6.30.1.4.1.2.3.5	Misc Equipment	697.67	HR	\$0.00	\$0.00	\$0.00	\$134,979.07	\$0.00	\$0.00	\$134,979.07	\$193.47	0.00
6.30.1.5	DEMOLITION TRESTLE - WASHINGTON	6,000.00	SF	\$128,146.92	\$521,757.94	\$0.00	\$111,198.12	\$13,657.29	\$0.00	\$774,760.27	\$129.13	1,533.03
6.30.1.5.1	Temporary Work Bridges - Furnish, Install & Remov	6,000.00	SF	\$128,146.92	\$521,757.94	\$0.00	\$111,198.12	\$13,657.29	\$0.00	\$774,760.27	\$129.13	1,533.03
6.30.1.5.1.1	Mob Equipment and Materials to/from Site	6,000.00	SF	\$12,191.76	\$481,545.94	\$0.00	\$15,214.39	\$13,657.29	\$0.00	\$522,609.37	\$87.10	145.85
6.30.1.5.1.1.1	Labor	6,000.00	SF	\$12,191.76	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,191.76	\$2.03	145.85
6.30.1.5.1.1.1.1	Handle Load/Unload Trestle Materials - Piles	15.21	EA	\$2,543.26	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,543.26	\$167.18	30.43
6.30.1.5.1.1.1.2	Handle Load/Unload Trestle Material - Caps	311,365.73	LB	\$6,506.83	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,506.83	\$0.02	77.84
6.30.1.5.1.1.1.3	Handle Load/Unload Trestle Material - Mats	25.06	EA	\$3,141.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,141.67	\$125.39	37.58
6.30.1.5.1.1.1.4	Shift Crane from Dock to Barge and Barge t	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.2	Supplies	6,000.00	SF	\$0.00	\$481,545.94	\$0.00	\$0.00	\$0.00	\$0.00	\$481,545.94	\$80.26	0.00
6.30.1.5.1.1.2.1	STS per MH @ 12.00	145.41	HR	\$0.00	\$1,744.97	\$0.00	\$0.00	\$0.00	\$0.00	\$1,744.97	\$12.00	0.00
6.30.1.5.1.1.2.2	Furnish Work Bridge Materials	6,000.00	SF	\$0.00	\$479,800.97	\$0.00	\$0.00	\$0.00	\$0.00	\$479,800.97	\$79.97	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.5.1.1.2.3	Furnish Reaction Piles for Shaft Installation	0.00	LF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.3	Equipment	0.67	Week	\$0.00	\$0.00	\$0.00	\$15,214.39	\$0.00	\$0.00	\$15,214.39	\$22,669.44	0.00
6.30.1.5.1.1.3.1	Land Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.3.2	Land Cranes for duration of Trestle Build	27.00	HR	\$0.00	\$0.00	\$0.00	\$14,073.02	\$0.00	\$0.00	\$14,073.02	\$521.19	0.00
6.30.1.5.1.1.3.3	Forklifts and Misc	27.00	HR	\$0.00	\$0.00	\$0.00	\$1,141.36	\$0.00	\$0.00	\$1,141.36	\$42.27	0.00
6.30.1.5.1.1.3.4	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.3.5	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.4	Subs	6,000.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$13,657.29	\$0.00	\$13,657.29	\$2.28	0.00
6.30.1.5.1.1.4.1	Towing 26 miles each way @ 4 Knots 16 hrs	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.4.2	Onsite tug service 16 hrs per week	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.1.4.3	Freight for materials - Girders and Caps	15.55	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$7,774.94	\$0.00	\$7,774.94	\$500.00	0.00
6.30.1.5.1.1.4.4	Freight for materials - Mats	3.07	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$1,534.53	\$0.00	\$1,534.53	\$500.00	0.00
6.30.1.5.1.1.4.5	Freight for materials - Piles	8.70	LD	\$0.00	\$0.00	\$0.00	\$0.00	\$4,347.83	\$0.00	\$4,347.83	\$500.00	0.00
6.30.1.5.1.2	Instal/Reml Work Bridge	6,000.00	SF	\$115,955.17	\$40,212.00	\$0.00	\$95,983.74	\$0.00	\$0.00	\$252,150.90	\$42.03	1,387.18
6.30.1.5.1.2.1	Labor	6,000.00	SF	\$115,955.17	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$115,955.17	\$19.33	1,387.18
6.30.1.5.1.2.1.1	Handle / inst Trestle	6,000.00	SF	\$67,695.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$67,695.70	\$11.28	809.85
6.30.1.5.1.2.1.1.1	Handle Trestle Materials - Piles	15.21	EA	\$1,907.44	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,907.44	\$125.39	22.82
6.30.1.5.1.2.1.1.2	Handle Trestle Material - Caps and Girder	299,284.40	LB	\$11,257.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,257.85	\$0.04	134.68
6.30.1.5.1.2.1.1.3	Handle Trestle Material - Mats	25.06	EA	\$3,141.67	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,141.67	\$125.39	37.58
6.30.1.5.1.2.1.1.4	Drive Mooring Dolphin Piles	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.1.5	Drive Trestle Piles - Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.1.6	Shift Crane from Barge to Trestle	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.1.7	Drive Trestle Piles - From Trestle	15.21	EA	\$7,629.77	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,629.77	\$501.55	91.28
6.30.1.5.1.2.1.1.8	Drive Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.1.9	Set Trestle Caps , Girders and Mats	4.03	EA	\$43,758.97	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$43,758.97	\$10,866.81	523.49
6.30.1.5.1.2.1.2	Remove and Handle Trestle	6,000.00	SF	\$48,259.47	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$48,259.47	\$8.04	577.33
6.30.1.5.1.2.1.2.1	Pull Trestle Piles From Trestle	18.60	EA	\$9,331.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,331.07	\$501.55	111.63
6.30.1.5.1.2.1.2.2	Pull Trestle Piles with Marine Crane	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.2.3	Rem Dolphin Piles	3.49	EA	\$1,749.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,749.58	\$501.55	20.93
6.30.1.5.1.2.1.2.4	Rem Trestle Caps , Girders and Mats /30	6.40	EA	\$21,383.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,383.71	\$3,343.63	255.81
6.30.1.5.1.2.1.2.5	Shift Crane from Trestle to Barge	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.1.2.6	Handle Trestle Materials - Piles	18.60	EA	\$1,749.58	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,749.58	\$94.04	20.93
6.30.1.5.1.2.1.2.7	Handle Trestle Material - Caps and Girder	299,266.06	LB	\$11,257.16	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,257.16	\$0.04	134.67
6.30.1.5.1.2.1.2.8	Handle Trestle Material - Mats	29.65	EA	\$2,788.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,788.39	\$94.04	33.36
6.30.1.5.1.2.1.2.9	Rem Reaction Piles for Shaft Constructio	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.2	Supplies	1.00	LS	\$0.00	\$40,212.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,212.00	\$40,212.00	0.00
6.30.1.5.1.2.2.1	STS per MH @ 12.00	3,351.00	HR	\$0.00	\$40,212.00	\$0.00	\$0.00	\$0.00	\$0.00	\$40,212.00	\$12.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
6.30.1.5.1.2.3	Equipment	3.47	Week	\$0.00	\$0.00	\$0.00	\$95,983.74	\$0.00	\$0.00	\$95,983.74	\$27,680.47	0.00
6.30.1.5.1.2.3.1	Land Cranes	137.12	HR	\$0.00	\$0.00	\$0.00	\$71,465.73	\$0.00	\$0.00	\$71,465.73	\$521.19	0.00
6.30.1.5.1.2.3.2	Forklifts and Misc	137.12	HR	\$0.00	\$0.00	\$0.00	\$5,796.08	\$0.00	\$0.00	\$5,796.08	\$42.27	0.00
6.30.1.5.1.2.3.3	Marine Cranes	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.3.4	Barges	0.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.30.1.5.1.2.3.5	Misc Equipment	96.77	HR	\$0.00	\$0.00	\$0.00	\$18,721.93	\$0.00	\$0.00	\$18,721.93	\$193.47	0.00
6.30.2	ACCESS ROADS - WASHINGTON SIDE	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000,000.00	\$0.00	\$1,000,000.00	\$1,000,000.00	0.00
6.30.3	NAVIGATION SAFETY DEVICES	1.00	LS	\$0.00	\$75,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$75,000.00	\$75,000.00	0.00
6.30.4	MOORAGE AND TEMPORARY BARGE ANCHORAGES	10.00	Each	\$0.00	\$350,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$350,000.00	\$35,000.00	0.00
6.31	MARINE SUPPORT	1.00	LS	\$134,736.00	\$0.00	\$0.00	\$0.00	\$1,872,000.00	\$0.00	\$2,006,736.00	\$2,006,736.00	1,680.00
6.31.1	MARINE TAXI SERVICE	1.00	Each	\$0.00	\$0.00	\$0.00	\$0.00	\$1,872,000.00	\$0.00	\$1,872,000.00	\$1,872,000.00	0.00
6.31.1.1	30 MAN CREW BOAT	104.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$1,872,000.00	\$0.00	\$1,872,000.00	\$18,000.00	0.00
6.31.2	CONCRETE DELIVERY SYSTEMS SETUP	3.00	Each	\$134,736.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$134,736.00	\$44,912.00	1,680.00
6.32	SHORESIDE EQUIPMENT SUPPORT FOR BRIDGE CONST.	1.00	LS	\$0.00	\$0.00	\$0.00	\$1,971,050.04	\$6,240,000.00	\$0.00	\$9,291,050.04	\$9,291,050.04	0.00
6.32.1	SUPPORT EQUIPMENT	156.00	Week	\$0.00	\$0.00	\$0.00	\$1,971,050.04	\$6,240,000.00	\$0.00	\$9,291,050.04	\$59,558.01	0.00
6.32.1.1	LUBE TRUCK	52.00	Week	\$0.00	\$0.00	\$0.00	\$240,298.24	\$0.00	\$0.00	\$240,298.24	\$4,621.12	0.00
6.32.1.2	FIELD TRUCKS F150 - 4 CREW TRUCKS	52.00	Week	\$0.00	\$0.00	\$0.00	\$214,905.60	\$0.00	\$0.00	\$214,905.60	\$4,132.80	0.00
6.32.1.3	80 TON SERVICE CRANE	52.00	Week	\$0.00	\$0.00	\$0.00	\$410,467.20	\$0.00	\$0.00	\$410,467.20	\$7,893.60	0.00
6.32.1.4	400 AMP WELDER	4.00	EA	\$0.00	\$0.00	\$0.00	\$32,000.00	\$0.00	\$0.00	\$32,000.00	\$8,000.00	0.00
6.32.1.5	FORKLIFT 10 K	104.00	Week	\$0.00	\$0.00	\$0.00	\$208,000.00	\$0.00	\$0.00	\$208,000.00	\$2,000.00	0.00
6.32.1.6	COMPRESSOR	4.00	EA	\$0.00	\$0.00	\$0.00	\$44,000.00	\$0.00	\$0.00	\$44,000.00	\$11,000.00	0.00
6.32.1.7	MANLIFT - 60'	2.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200,000.00	\$100,000.00	0.00
6.32.1.8	LIGHT PLANT	4.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$80,000.00	\$20,000.00	0.00
6.32.1.9	CONCRETE HEATERS	156.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
6.32.1.10	FLATBED TRUCKING - ONSITE MOVES	3,000.00	HR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$300,000.00	\$100.00	0.00
6.32.1.11	MISC EQUIPMENT RENT	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	0.00
6.32.1.12	MARINE SERVICE TUGS (2 EA @ \$600 / HR - 10 HRS	104.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$6,240,000.00	\$0.00	\$6,240,000.00	\$60,000.00	0.00
6.32.1.13	SKIFFS	156.00	Week	\$0.00	\$0.00	\$0.00	\$122,928.00	\$0.00	\$0.00	\$122,928.00	\$788.00	0.00
6.32.1.14	TRAVEL LIFT	156.00	Week	\$0.00	\$0.00	\$0.00	\$698,451.00	\$0.00	\$0.00	\$698,451.00	\$4,477.25	0.00
<b>7</b>	<b>BRIDGE DEMOLITION</b>	1.00	LS	\$4,650,211.90	\$2,192,434.00	\$0.00	\$13,668,963.26	\$5,214,000.00	\$0.00	\$25,725,609.16	\$25,725,609.16	61,002.92
7.1	BRIDGE REMOVAL	92,778.00	SF	\$1,037,112.29	\$439,665.00	\$0.00	\$3,101,934.00	\$1,080,000.00	\$0.00	\$5,658,711.29	\$60.99	13,311.12
7.1.1	DECK GRATING REMOVAL	92,778.00	SF	\$289,145.33	\$115,665.00	\$0.00	\$522,641.60	\$180,000.00	\$0.00	\$1,107,451.93	\$11.94	3,711.12
7.1.1.1	LABOR	92,778.00	SF	\$289,145.33	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$289,145.33	\$3.12	3,711.12
7.1.1.2	STS	1.00	LS	\$0.00	\$115,665.00	\$0.00	\$0.00	\$0.00	\$0.00	\$115,665.00	\$115,665.00	0.00
7.1.1.2.1	MHR STS	3,711.00	HR	\$0.00	\$55,665.00	\$0.00	\$0.00	\$0.00	\$0.00	\$55,665.00	\$15.00	0.00
7.1.1.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.1.1.3	EQUIP	11.00	Week	\$0.00	\$0.00	\$0.00	\$522,641.60	\$0.00	\$0.00	\$522,641.60	\$47,512.87	0.00



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**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
7.1.1.3.1	300 TON CRAWLER CRANE	1.00	Week	\$0.00	\$0.00	\$0.00	\$41,695.20	\$0.00	\$0.00	\$41,695.20	\$41,695.20	0.00
7.1.1.3.2	400 AMP WELDER	11.00	Week	\$0.00	\$0.00	\$0.00	\$16,156.80	\$0.00	\$0.00	\$16,156.80	\$1,468.80	0.00
7.1.1.3.3	185 CFM COMPRESSOR	11.00	Week	\$0.00	\$0.00	\$0.00	\$18,040.00	\$0.00	\$0.00	\$18,040.00	\$1,640.00	0.00
7.1.1.3.4	DEMO SHEAR	11.00	Week	\$0.00	\$0.00	\$0.00	\$83,600.00	\$0.00	\$0.00	\$83,600.00	\$7,600.00	0.00
7.1.1.3.5	EXCAVATOR	11.00	Week	\$0.00	\$0.00	\$0.00	\$202,065.60	\$0.00	\$0.00	\$202,065.60	\$18,369.60	0.00
7.1.1.3.6	BARGE	11.00	Week	\$0.00	\$0.00	\$0.00	\$55,000.00	\$0.00	\$0.00	\$55,000.00	\$5,000.00	0.00
7.1.1.3.7	CARRY LIFT	11.00	Week	\$0.00	\$0.00	\$0.00	\$106,084.00	\$0.00	\$0.00	\$106,084.00	\$9,644.00	0.00
7.1.1.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$180,000.00	0.00
7.1.1.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	4.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$45,000.00	0.00
7.1.1.4.2	DISPOSAL FEE	61,852.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.1.2	STEEL SEGMENT REMOVAL - FROM TRESTLE	8.00	EA	\$199,457.86	\$98,400.00	\$0.00	\$606,188.80	\$360,000.00	\$0.00	\$1,264,046.66	\$158,005.83	2,560.00
7.1.2.1	LABOR	8.00	EA	\$199,457.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$199,457.86	\$24,932.23	2,560.00
7.1.2.2	STS	1.00	LS	\$0.00	\$98,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$98,400.00	\$98,400.00	0.00
7.1.2.2.1	MHR STS	2,560.00	HR	\$0.00	\$38,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38,400.00	\$15.00	0.00
7.1.2.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.1.2.3	EQUIP	8.00	Week	\$0.00	\$0.00	\$0.00	\$606,188.80	\$0.00	\$0.00	\$606,188.80	\$75,773.60	0.00
7.1.2.3.1	300 TON CRAWLER CRANE	8.00	Week	\$0.00	\$0.00	\$0.00	\$333,561.60	\$0.00	\$0.00	\$333,561.60	\$41,695.20	0.00
7.1.2.3.2	400 AMP WELDER	8.00	Week	\$0.00	\$0.00	\$0.00	\$11,750.40	\$0.00	\$0.00	\$11,750.40	\$1,468.80	0.00
7.1.2.3.3	185 CFM COMPRESSOR	8.00	Week	\$0.00	\$0.00	\$0.00	\$13,120.00	\$0.00	\$0.00	\$13,120.00	\$1,640.00	0.00
7.1.2.3.4	DEMO SHEAR	8.00	Week	\$0.00	\$0.00	\$0.00	\$60,800.00	\$0.00	\$0.00	\$60,800.00	\$7,600.00	0.00
7.1.2.3.5	EXCAVATOR	8.00	Week	\$0.00	\$0.00	\$0.00	\$146,956.80	\$0.00	\$0.00	\$146,956.80	\$18,369.60	0.00
7.1.2.3.6	BARGE	8.00	Week	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$5,000.00	0.00
7.1.2.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$360,000.00	\$0.00	\$360,000.00	\$360,000.00	0.00
7.1.2.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	8.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$360,000.00	\$0.00	\$360,000.00	\$45,000.00	0.00
7.1.2.4.2	DISPOSAL FEE	61,852.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.1.3	STEEL SEGMENT REMOVAL - MARINE	8.00	EA	\$398,915.71	\$136,800.00	\$0.00	\$1,315,402.40	\$360,000.00	\$0.00	\$2,211,118.11	\$276,389.76	5,120.00
7.1.3.1	LABOR	8.00	EA	\$398,915.71	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$398,915.71	\$49,864.46	5,120.00
7.1.3.2	STS	1.00	LS	\$0.00	\$136,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$136,800.00	\$136,800.00	0.00
7.1.3.2.1	MHR STS	5,120.00	HR	\$0.00	\$76,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$76,800.00	\$15.00	0.00
7.1.3.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.1.3.3	EQUIP	8.00	Week	\$0.00	\$0.00	\$0.00	\$1,000,618.40	\$0.00	\$0.00	\$1,000,618.40	\$125,077.30	0.00
7.1.3.3.1	300 TON CRAWLER CRANE	1.00	Week	\$0.00	\$0.00	\$0.00	\$41,695.20	\$0.00	\$0.00	\$41,695.20	\$41,695.20	0.00
7.1.3.3.2	400 AMP WELDER	8.00	Week	\$0.00	\$0.00	\$0.00	\$11,750.40	\$0.00	\$0.00	\$11,750.40	\$1,468.80	0.00
7.1.3.3.3	185 CFM COMPRESSOR	8.00	Week	\$0.00	\$0.00	\$0.00	\$13,120.00	\$0.00	\$0.00	\$13,120.00	\$1,640.00	0.00
7.1.3.3.4	DEMO SHEAR	8.00	Week	\$0.00	\$0.00	\$0.00	\$60,800.00	\$0.00	\$0.00	\$60,800.00	\$7,600.00	0.00
7.1.3.3.5	EXCAVATOR	8.00	Week	\$0.00	\$0.00	\$0.00	\$146,956.80	\$0.00	\$0.00	\$146,956.80	\$18,369.60	0.00
7.1.3.3.6	BARGE	8.00	Week	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$5,000.00	0.00

**Cost Breakdown Structure (CBS) Register**

**KELLY MCNUTT CONSULTING, LLC**

**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
7.1.3.3.7	MARINE CRANE 300T CAP	8.00	Week	\$0.00	\$0.00	\$0.00	\$686,296.00	\$0.00	\$0.00	\$686,296.00	\$85,787.00	0.00
7.1.3.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$314,784.00	\$360,000.00	\$0.00	\$674,784.00	\$674,784.00	0.00
7.1.3.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	8.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$360,000.00	\$0.00	\$360,000.00	\$45,000.00	0.00
7.1.3.4.2	DISPOSAL FEE	61,852.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.1.3.4.3	TUG ASSIST	8.00	Week	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$39,348.00	0.00
7.1.4	BRIDGE LIFT SPAN & TOWER REMOVAL	1.00	EA	\$149,593.39	\$88,800.00	\$0.00	\$657,701.20	\$180,000.00	\$0.00	\$1,076,094.59	\$1,076,094.59	1,920.00
7.1.4.1	LABOR	3.00	EA	\$149,593.39	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$149,593.39	\$49,864.46	1,920.00
7.1.4.2	STS	1.00	LS	\$0.00	\$88,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$88,800.00	\$88,800.00	0.00
7.1.4.2.1	MHR STS	1,920.00	HR	\$0.00	\$28,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,800.00	\$15.00	0.00
7.1.4.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.1.4.3	EQUIP	4.00	Week	\$0.00	\$0.00	\$0.00	\$500,309.20	\$0.00	\$0.00	\$500,309.20	\$125,077.30	0.00
7.1.4.3.1	300 TON CRAWLER CRANE	0.50	Week	\$0.00	\$0.00	\$0.00	\$20,847.60	\$0.00	\$0.00	\$20,847.60	\$41,695.20	0.00
7.1.4.3.2	400 AMP WELDER	4.00	Week	\$0.00	\$0.00	\$0.00	\$5,875.20	\$0.00	\$0.00	\$5,875.20	\$1,468.80	0.00
7.1.4.3.3	185 CFM COMPRESSOR	4.00	Week	\$0.00	\$0.00	\$0.00	\$6,560.00	\$0.00	\$0.00	\$6,560.00	\$1,640.00	0.00
7.1.4.3.4	DEMO SHEAR	4.00	Week	\$0.00	\$0.00	\$0.00	\$30,400.00	\$0.00	\$0.00	\$30,400.00	\$7,600.00	0.00
7.1.4.3.5	EXCAVATOR	4.00	Week	\$0.00	\$0.00	\$0.00	\$73,478.40	\$0.00	\$0.00	\$73,478.40	\$18,369.60	0.00
7.1.4.3.6	BARGE	4.00	Week	\$0.00	\$0.00	\$0.00	\$20,000.00	\$0.00	\$0.00	\$20,000.00	\$5,000.00	0.00
7.1.4.3.7	MARINE CRANE 300T CAP	4.00	Week	\$0.00	\$0.00	\$0.00	\$343,148.00	\$0.00	\$0.00	\$343,148.00	\$85,787.00	0.00
7.1.4.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$157,392.00	\$180,000.00	\$0.00	\$337,392.00	\$337,392.00	0.00
7.1.4.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	4.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$180,000.00	\$0.00	\$180,000.00	\$45,000.00	0.00
7.1.4.4.2	DISPOSAL FEE	61,852.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.1.4.4.3	TUG ASSIST	4.00	Week	\$0.00	\$0.00	\$0.00	\$157,392.00	\$0.00	\$0.00	\$157,392.00	\$39,348.00	0.00
7.2	RIPRAP REMOVAL	13,478.00	CY	\$110,665.57	\$219,569.00	\$0.00	\$865,670.46	\$514,000.00	\$0.00	\$1,709,905.03	\$126.87	1,347.80
7.2.1	USE ALL MARINE REMOVAL	13,478.00	CY	\$110,665.57	\$219,569.00	\$0.00	\$865,670.46	\$514,000.00	\$0.00	\$1,709,905.03	\$126.87	1,347.80
7.2.1.1	LABOR	13,478.00	CY	\$110,665.57	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$110,665.57	\$8.21	1,347.80
7.2.1.2	STS	1.00	LS	\$0.00	\$30,345.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,345.00	\$30,345.00	0.00
7.2.1.2.1	MHR STS	1,223.00	HR	\$0.00	\$18,345.00	\$0.00	\$0.00	\$0.00	\$0.00	\$18,345.00	\$15.00	0.00
7.2.1.2.2	RIGGING	0.20	LS	\$0.00	\$12,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,000.00	\$60,000.00	0.00
7.2.1.3	EQUIP	8.81	Week	\$0.00	\$0.00	\$0.00	\$550,886.46	\$0.00	\$0.00	\$550,886.46	\$62,530.60	0.00
7.2.1.3.1	EXCAVATOR	8.81	Week	\$0.00	\$0.00	\$0.00	\$161,833.79	\$0.00	\$0.00	\$161,833.79	\$18,369.60	0.00
7.2.1.3.2	BARGE	8.81	Week	\$0.00	\$0.00	\$0.00	\$44,049.35	\$0.00	\$0.00	\$44,049.35	\$5,000.00	0.00
7.2.1.3.3	MARINE CRANE 100T CAP	8.81	Week	\$0.00	\$0.00	\$0.00	\$332,669.50	\$0.00	\$0.00	\$332,669.50	\$37,761.00	0.00
7.2.1.3.4	DIGGING BUCKET	8.81	Week	\$0.00	\$0.00	\$0.00	\$12,333.82	\$0.00	\$0.00	\$12,333.82	\$1,400.00	0.00
7.2.1.4	SUB	1.00	LS	\$0.00	\$189,224.00	\$0.00	\$314,784.00	\$514,000.00	\$0.00	\$1,018,008.00	\$1,018,008.00	0.00
7.2.1.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	8.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$360,000.00	\$0.00	\$360,000.00	\$45,000.00	0.00
7.2.1.4.2	DISPOSAL FEE	23,653.00	TN	\$0.00	\$189,224.00	\$0.00	\$0.00	\$0.00	\$0.00	\$189,224.00	\$8.00	0.00
7.2.1.4.3	TUG ASSIST	8.00	Week	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$39,348.00	0.00

**Cost Breakdown Structure (CBS) Register**

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**WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River**

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
7.2.1.4.4	DIVER	22.00	Calendar Da	\$0.00	\$0.00	\$0.00	\$0.00	\$154,000.00	\$0.00	\$154,000.00	\$7,000.00	0.00
7.3	SHORING, CRIBBING AND COFFERDAMS	1.00	LS	\$997,289.29	\$1,240,400.00	\$0.00	\$4,593,876.00	\$0.00	\$0.00	\$6,831,565.29	\$6,831,565.29	12,800.00
7.3.1	FLOW DEFLECTION - NO SHORING	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.1	LABOR	0.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2	EQUIP	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.1	300 TON CRAWLER CRANE	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.2	400 AMP WELDER	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.3	185 CFM COMPRESSOR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.4	DEMO SHEAR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.5	EXCAVATOR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.1.2.6	BARGE	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.2	COFFERDAMS - MINOR PIERS IN/OUT	16.00	EA	\$797,831.43	\$853,600.00	\$0.00	\$3,486,230.40	\$0.00	\$0.00	\$5,137,661.83	\$321,103.86	10,240.00
7.3.2.1	LABOR	16.00	EA	\$797,831.43	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$797,831.43	\$49,864.46	10,240.00
7.3.2.2	STS	1.00	LS	\$0.00	\$853,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$853,600.00	\$853,600.00	0.00
7.3.2.2.1	MHR STS	10,240.00	HR	\$0.00	\$153,600.00	\$0.00	\$0.00	\$0.00	\$0.00	\$153,600.00	\$15.00	0.00
7.3.2.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.3.2.2.3	MINOR PIER COFFERDAM STEEL	8.00	EA	\$0.00	\$640,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$640,000.00	\$80,000.00	0.00
7.3.2.3	EQUIP	32.00	Week	\$0.00	\$0.00	\$0.00	\$3,171,446.40	\$0.00	\$0.00	\$3,171,446.40	\$99,107.70	0.00
7.3.2.3.1	300 TON CRAWLER CRANE	4.00	Week	\$0.00	\$0.00	\$0.00	\$166,780.80	\$0.00	\$0.00	\$166,780.80	\$41,695.20	0.00
7.3.2.3.2	400 AMP WELDER	32.00	Week	\$0.00	\$0.00	\$0.00	\$47,001.60	\$0.00	\$0.00	\$47,001.60	\$1,468.80	0.00
7.3.2.3.3	185 CFM COMPRESSOR	32.00	Week	\$0.00	\$0.00	\$0.00	\$52,480.00	\$0.00	\$0.00	\$52,480.00	\$1,640.00	0.00
7.3.2.3.4	DEMO SHEAR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.2.3.5	EXCAVATOR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.2.3.6	BARGE	32.00	Week	\$0.00	\$0.00	\$0.00	\$160,000.00	\$0.00	\$0.00	\$160,000.00	\$5,000.00	0.00
7.3.2.3.7	MARINE CRANE 300T CAP	32.00	Week	\$0.00	\$0.00	\$0.00	\$2,745,184.00	\$0.00	\$0.00	\$2,745,184.00	\$85,787.00	0.00
7.3.2.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$314,784.00	0.00
7.3.2.4.1	TUG ASSIST	8.00	Week	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$39,348.00	0.00
7.3.3	COFFERDAMS - LIFT SPAN	2.00	EA	\$199,457.86	\$386,800.00	\$0.00	\$1,107,645.60	\$0.00	\$0.00	\$1,693,903.46	\$846,951.73	2,560.00
7.3.3.1	LABOR	2.00	EA	\$199,457.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$199,457.86	\$99,728.93	2,560.00
7.3.3.2	STS	1.00	LS	\$0.00	\$386,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$386,800.00	\$386,800.00	0.00
7.3.3.2.1	MHR STS	5,120.00	HR	\$0.00	\$76,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$76,800.00	\$15.00	0.00
7.3.3.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.3.3.2.3	COFFERDAM MATERIALS	1.00	LS	\$0.00	\$250,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250,000.00	\$250,000.00	0.00
7.3.3.3	EQUIP	8.00	Week	\$0.00	\$0.00	\$0.00	\$792,861.60	\$0.00	\$0.00	\$792,861.60	\$99,107.70	0.00
7.3.3.3.1	300 TON CRAWLER CRANE	1.00	Week	\$0.00	\$0.00	\$0.00	\$41,695.20	\$0.00	\$0.00	\$41,695.20	\$41,695.20	0.00
7.3.3.3.2	400 AMP WELDER	8.00	Week	\$0.00	\$0.00	\$0.00	\$11,750.40	\$0.00	\$0.00	\$11,750.40	\$1,468.80	0.00
7.3.3.3.3	185 CFM COMPRESSOR	8.00	Week	\$0.00	\$0.00	\$0.00	\$13,120.00	\$0.00	\$0.00	\$13,120.00	\$1,640.00	0.00

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CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
7.3.3.3.4	DEMO SHEAR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.3.3.5	EXCAVATOR	0.00	Week	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.3.3.3.6	BARGE	8.00	Week	\$0.00	\$0.00	\$0.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00	\$5,000.00	0.00
7.3.3.3.7	MARINE CRANE 300T CAP	8.00	Week	\$0.00	\$0.00	\$0.00	\$686,296.00	\$0.00	\$0.00	\$686,296.00	\$85,787.00	0.00
7.3.3.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$314,784.00	0.00
7.3.3.4.1	TUG ASSIST	8.00	Week	\$0.00	\$0.00	\$0.00	\$314,784.00	\$0.00	\$0.00	\$314,784.00	\$39,348.00	0.00
7.4	ALLOCATED CONTINGENCY FOR LEAD PAINT REMOVAL	92,778.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.5	WORK BRIDGE	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.6	BRIDGE FOUNDATION REMOVAL	1.00	LS	\$2,505,144.75	\$292,800.00	\$0.00	\$5,107,482.80	\$3,620,000.00	\$0.00	\$11,525,427.55	\$11,525,427.55	33,544.00
7.6.1	SAWCUT AND PICK COLUMN SECTIONS	14.00	EA	\$669,153.86	\$194,400.00	\$0.00	\$4,240,334.00	\$3,080,000.00	\$0.00	\$8,183,887.86	\$584,563.42	8,960.00
7.6.1.1	LABOR	14.00	EA	\$669,153.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$669,153.86	\$47,796.70	8,960.00
7.6.1.2	STS	1.00	LS	\$0.00	\$194,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$194,400.00	\$194,400.00	0.00
7.6.1.2.1	MHR STS	8,960.00	HR	\$0.00	\$134,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$134,400.00	\$15.00	0.00
7.6.1.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.6.1.3	EQUIP	28.00	Week	\$0.00	\$0.00	\$0.00	\$3,138,590.00	\$0.00	\$0.00	\$3,138,590.00	\$112,092.50	0.00
7.6.1.3.1	300 TON CRAWLER CRANE	3.50	Week	\$0.00	\$0.00	\$0.00	\$145,933.20	\$0.00	\$0.00	\$145,933.20	\$41,695.20	0.00
7.6.1.3.2	400 AMP WELDER	28.00	Week	\$0.00	\$0.00	\$0.00	\$41,126.40	\$0.00	\$0.00	\$41,126.40	\$1,468.80	0.00
7.6.1.3.3	185 CFM COMPRESSOR	28.00	Week	\$0.00	\$0.00	\$0.00	\$45,920.00	\$0.00	\$0.00	\$45,920.00	\$1,640.00	0.00
7.6.1.3.4	DEMO SHEAR	14.00	Week	\$0.00	\$0.00	\$0.00	\$106,400.00	\$0.00	\$0.00	\$106,400.00	\$7,600.00	0.00
7.6.1.3.5	EXCAVATOR	14.00	Week	\$0.00	\$0.00	\$0.00	\$257,174.40	\$0.00	\$0.00	\$257,174.40	\$18,369.60	0.00
7.6.1.3.6	BARGE	28.00	Week	\$0.00	\$0.00	\$0.00	\$140,000.00	\$0.00	\$0.00	\$140,000.00	\$5,000.00	0.00
7.6.1.3.7	MARINE CRANE 300T CAP	28.00	Week	\$0.00	\$0.00	\$0.00	\$2,402,036.00	\$0.00	\$0.00	\$2,402,036.00	\$85,787.00	0.00
7.6.1.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$1,101,744.00	\$3,080,000.00	\$0.00	\$4,181,744.00	\$4,181,744.00	0.00
7.6.1.4.1	TUG ASSIST	28.00	Week	\$0.00	\$0.00	\$0.00	\$1,101,744.00	\$0.00	\$0.00	\$1,101,744.00	\$39,348.00	0.00
7.6.1.4.2	WIRE SAW SUB	14,000.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$2,100,000.00	\$0.00	\$2,100,000.00	\$150.00	0.00
7.6.1.4.3	DIVER	140.00	Calendar Da	\$0.00	\$0.00	\$0.00	\$0.00	\$980,000.00	\$0.00	\$980,000.00	\$7,000.00	0.00
7.6.2	DEMO CONCRETE ON BARGE	6,146.00	CY	\$1,835,990.89	\$98,400.00	\$0.00	\$867,148.80	\$540,000.00	\$0.00	\$3,341,539.69	\$543.69	24,584.00
7.6.2.1	LABOR	6,146.00	CY	\$1,835,990.89	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,835,990.89	\$298.73	24,584.00
7.6.2.2	STS	1.00	LS	\$0.00	\$98,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$98,400.00	\$98,400.00	0.00
7.6.2.2.1	MHR STS	2,560.00	HR	\$0.00	\$38,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$38,400.00	\$15.00	0.00
7.6.2.2.2	RIGGING	1.00	LS	\$0.00	\$60,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$60,000.00	\$60,000.00	0.00
7.6.2.3	EQUIP	28.00	Week	\$0.00	\$0.00	\$0.00	\$867,148.80	\$0.00	\$0.00	\$867,148.80	\$30,969.60	0.00
7.6.2.3.1	DEMO SHEAR	28.00	Week	\$0.00	\$0.00	\$0.00	\$212,800.00	\$0.00	\$0.00	\$212,800.00	\$7,600.00	0.00
7.6.2.3.2	EXCAVATOR	28.00	Week	\$0.00	\$0.00	\$0.00	\$514,348.80	\$0.00	\$0.00	\$514,348.80	\$18,369.60	0.00
7.6.2.3.3	BARGE	28.00	Week	\$0.00	\$0.00	\$0.00	\$140,000.00	\$0.00	\$0.00	\$140,000.00	\$5,000.00	0.00
7.6.2.4	SUB	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$540,000.00	\$0.00	\$540,000.00	\$540,000.00	0.00
7.6.2.4.1	LOADOUT/HAUL TO DISPOSAL VIA BARGE - PORTL	12.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$540,000.00	\$0.00	\$540,000.00	\$45,000.00	0.00

Cost Breakdown Structure (CBS) Register

KELLY MCNUTT CONSULTING, LLC

WSP Hood River Bridge Replacement--Columbia River Crossing at Hood River

CBS Position Code	Description	Forecast (T/O) Quantity	Unit of Measure	Labor Total Cost	Supplies Total Cost	Materials Total Cost	Owned Equipment Total Cost	Subcontract Total Cost	Fees Billing Unit Rate	Total Cost (Forecast)	Unit Cost	Man-Hours (Total)
7.6.2.4.2	DISPOSAL FEE	12,860.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
7.7	MARINE SUPPORT	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>8</b>	<b>RETAINING WALLS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$7,401,800.00	\$0.00	\$7,401,800.00	\$7,401,800.00	0.00
8.1	NOISE WALL (PED)	30,000.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$4,800,000.00	\$0.00	\$4,800,000.00	\$160.00	0.00
8.2	RETAINING WALLS, MSE	12,835.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$1,026,800.00	\$0.00	\$1,026,800.00	\$80.00	0.00
8.3	RETAINING WALL - SOLDIER PILE (WASHINGTON SIDE)	10,500.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$1,575,000.00	\$0.00	\$1,575,000.00	\$150.00	0.00
<b>9</b>	<b>BASES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$67,270.00	\$0.00	\$67,270.00	\$67,270.00	0.00
9.1	AGGREGATE BASE	1,922.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$67,270.00	\$0.00	\$67,270.00	\$35.00	0.00
<b>10</b>	<b>WEARING SURFACES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,212,520.00	\$0.00	\$1,212,520.00	\$1,212,520.00	0.00
10.1	HMAC	4,080.00	TN	\$0.00	\$0.00	\$0.00	\$0.00	\$367,200.00	\$0.00	\$367,200.00	\$90.00	0.00
10.2	CONCRETE WALKS	62,960.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$755,520.00	\$0.00	\$755,520.00	\$12.00	0.00
10.3	CONCRETE SIDEWALK RAMPS	4.00	EA	\$0.00	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$4,000.00	0.00
10.4	CONCRETE CURBS, CURB AND GUTTER	1,640.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$73,800.00	\$0.00	\$73,800.00	\$45.00	0.00
<b>11</b>	<b>PERMANENT TRAFFIC SAFETY AND GUIDANCE DEVIC</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$295,879.00	\$0.00	\$295,879.00	\$295,879.00	0.00
11.1	CONCRETE BARRIER	8,780.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$289,740.00	\$0.00	\$289,740.00	\$33.00	0.00
11.2	LONGITUDINAL PAVEMENT MARKINGS	17,540.00	FT	\$0.00	\$0.00	\$0.00	\$0.00	\$6,139.00	\$0.00	\$6,139.00	\$0.35	0.00
<b>12</b>	<b>PERMANENT TRAFFIC CONTROL AND ILLIMINATION</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$2,052,500.00	\$0.00	\$2,052,500.00	\$2,052,500.00	0.00
12.1	SIGNAGE	300.00	SF	\$0.00	\$0.00	\$0.00	\$0.00	\$52,500.00	\$0.00	\$52,500.00	\$175.00	0.00
12.2	TRAFFIC SIGNALS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$800,000.00	\$0.00	\$800,000.00	\$800,000.00	0.00
12.3	ILLUMINATION SYSTEMS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,200,000.00	\$0.00	\$1,200,000.00	\$1,200,000.00	0.00
<b>13</b>	<b>UTILITIES</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$5,200,000.00	\$0.00	\$5,200,000.00	\$5,200,000.00	0.00
13.1	UTILITY RELOCATION	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$1,500,000.00	\$0.00	\$1,500,000.00	\$1,500,000.00	0.00
13.2	BRIDGE HANGER SYSTEM	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$600,000.00	\$0.00	\$600,000.00	\$600,000.00	0.00
13.3	BRIDGE LIGHTING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$2,600,000.00	\$0.00	\$2,600,000.00	\$2,600,000.00	0.00
13.4	RENEWABLE POWER GENERATION	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$0.00	\$500,000.00	\$500,000.00	0.00
13.5	TOLLING SYSTEM	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>14</b>	<b>RIGHT-OF-WAY DEVELOPMENT AND CONTROL</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
14.1	ROW	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
14.2	BNSF PERMITS AND FLAGGING	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.00
<b>15</b>	<b>MITIGATION COSTS</b>	1.00	LS	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$500,000.00	0.00
<b>16</b>	<b>BRIDGE AESTHETICS</b>	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$5,000,000.00	0.00
16.1	BRIDGE AESTHETICS	1.00	LS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$5,000,000.00	0.00
846				\$44,153,503.08	\$37,729,530.58	\$16,807,502.52	\$38,651,784.71	\$69,407,085.90		\$254,234,206.79		526,027.46