

Appendix E

Planning-Level Cost Estimates

PROJECT: CDTC - COLUMBIA RIVER CROSSING STUDY
DESCRIPTION: PLANNING-LEVEL COST ESTIMATE
CROSSING LOCATION: DOWNTOWN CONNECTION

DATE: 1st Quarter, 2024

ITEM	QUANTITY	UNIT	UNIT PRICE (\$2024)	AMOUNT (ROUNDED) (\$2024)
PREPARATION				
REMOVE PAVEMENT	7,300	SY	\$ 35	\$ 256,000
EARTHWORK				
EXCAVATION		CY	\$ 70	\$ 0
COMMON BORROW+EMBANKMENT COMPACTION	5,500	CY	\$ 65	\$ 358,000
ILLUMINATION				
LIGHTING	1	LS	\$ 200,000	\$ 200,000
STORMWATER				
STORMWATER CONVEYANCE, FLOW CONTROL, QUALITY (ALLOWANCE)	1	LS	\$ 250,000	\$ 250,000
ROADWAY				
HMA PAVEMENT	4,800	TON	\$ 220	\$ 1,056,000
CEMENT CONC. SIDEWALK	800	SY	\$ 90	\$ 72,000
CEMENT CONC. CURB AND GUTTER	1,200	LF	\$ 50	\$ 60,000
CRUSHED SURFACING TOP/BASE COURSE	4,400	TON	\$ 80	\$ 352,000
PAVEMENT STRIPING/MARKING (ALLOWANCE)	1	LS	\$ 70,000	\$ 70,000
SIGNAGE	1	LS	\$ 60,000	\$ 60,000
ROUNDBOUT CONC CURBS AND ISLANDS	1	LS	\$ 100,000	\$ 100,000
STRUCTURES				
BRIDGE - COLUMBIA RIVER CROSSING	105,000	SF	\$ 800	\$ 84,000,000
RETAINING WALLS	7,000	SF	\$ 60	\$ 420,000
LANDSCAPING				
LANDSCAPING & IRRIGATION (ALLOWANCE)	1	LS	\$ 80,000	\$ 80,000
OTHER WORK				
TRAFFIC SIGNALS/RRFBs	1	LS	\$ 1,560,000	\$ 1,560,000
SLIP LANE AT 5TH/ SR28	1	LS	\$ 150,000	\$ 150,000
CURB RAMPS AND SIDEWALK AT MISSION AND CHELAN	1	LS	\$ 80,000	\$ 80,000
UTILITIES				
OVERHEAD POWER RELOCATION/UNDERGROUNDING	1	LS	\$ 800,000	\$ 800,000
STORM, SEWER, WATER, COMMUNICATIONS RELOCATION	1	LS	\$ 800,000	\$ 800,000
			Subtotal	\$ 90,730,000
MOBILIZATION / DEMOBILIZATION	5%			\$ 4,540,000
EROSION CONTROL/DEWATERING/SPCC	2%			\$ 1,820,000
TRAFFIC CONTROL	5%			\$ 4,540,000
PLANNING CONTINGENCY	30%			\$ 27,220,000
			Construction Subtotal	\$ 128,900,000
PROFESSIONAL SERVICES				
PROFESSIONAL ENGINEERING/ENVIRONMENTAL/PERMITTING SERVICES	25%			\$ 32,225,000
ADMINISTRATIVE	10%			\$ 12,890,000
CONSTRUCTION MANAGEMENT SERVICES	15%			\$ 19,335,000
			Professional Services Subtotal	\$ 64,450,000
REAL ESTATE				
REAL ESTATE ACQUISITION/EASEMENTS	1	LS	\$ 175,000	\$ 180,000
			Real Estate Acquisition Total	\$ 180,000
CORRIDOR SIGNAL TIMING MODIFICATIONS				
SIGNAL TIMING MODIFICATIONS	1	LS	\$ 280,000	\$ 280,000
			Signal timing modifications	\$ 300,000
ESTIMATED PROJECT COST (LOW)				\$ 156,000,000
ESTIMATED PROJECT COST (HIGH)				\$ 272,000,000

PROJECT: CDTC - COLUMBIA RIVER CROSSING STUDY
DESCRIPTION: PLANNING-LEVEL COST ESTIMATE
CROSSING LOCATION: SR 285 Couplet

DATE: 1st Quarter, 2024

ITEM	QUANTITY	UNIT	UNIT PRICE (\$2024)	AMOUNT (ROUNDED) (\$2024)
PREPARATION				
REMOVE ROADWAY	15,000	SY	\$ 35	\$ 525,000
EARTHWORK				
EXCAVATION	3,000	CY	\$ 70	\$ 210,000
COMMON BORROW+EMBANKMENT COMPACTION	5,000	CY	\$ 65	\$ 325,000
ILLUMINATION				
LIGHTING	1	LS	\$ 300,000	\$ 300,000
STORMWATER				
STORMWATER CONVEYANCE, FLOW CONTROL, QUALITY (ALLOWANCE)	1	LS	\$ 250,000	\$ 250,000
ROADWAY				
HMA PAVEMENT	12,500	TON	\$ 220	\$ 2,750,000
CRUSHED SURFACING TOP/BASE COURSE	8,000	TON	\$ 80	\$ 640,000
PAVEMENT STRIPING/MARKING (ALLOWANCE)	1	LS	\$ 120,000	\$ 120,000
SIGNAGE/ w WSDOT SIGNS	1	LS	\$ 250,000	\$ 250,000
STRUCTURES				
BRIDGE - COLUMBIA RIVER CROSSING	69,000	SF	\$ 800	\$ 55,200,000
BRIDGE - GRADE SEPARATION	64,000	SF	\$ 600	\$ 38,400,000
RETAINING WALL	25,000	SF	\$ 60	\$ 1,500,000
LANDSCAPING				
LANDSCAPING & IRRIGATION (ALLOWANCE)	1	LS	\$ 60,000	\$ 60,000
OTHER WORK				
TRAFFIC SIGNALS	1	LS	\$ 2,400,000	\$ 2,400,000
TRAFFIC SIGNAL MODIFICATIONS	1	LS	\$ 1,600,000	\$ 1,600,000
INTERSECTION IMPROVEMENTS MARR/MISSION	1	LS	\$ 90,000	\$ 90,000
INTERSECTION IMPROVEMENTS MARR/WENATCHEE	1	LS	\$ 41,000	\$ 41,000
INTERSECTION IMPROVEMENTS FERRY/WENATCHEE	1	LS	\$ 200,300	\$ 201,000
INTERSECTION IMPROVEMENTS SR285/GRANT	1	LS	\$ 470,000	\$ 470,000
UTILITIES				
OVERHEAD POWER RELOCATION/UNDERGROUNDING	1	LS	\$ 150,000	\$ 150,000
STORM, SEWER, WATER, COMMUNICATIONS RELOCATION	1	LS	\$ 50,000	\$ 50,000
Subtotal				\$ 105,600,000
MOBILIZATION / DEMOBILIZATION	5%			\$ 5,280,000
EROSION CONTROL/DEWATERING/SPCC	2%			\$ 2,120,000
TRAFFIC CONTROL	5%			\$ 5,280,000
PLANNING CONTINGENCY	30%			\$ 31,680,000
Construction Subtotal				\$ 150,000,000
PROFESSIONAL SERVICES				
PROFESSIONAL ENGINEERING/ENVIRONMENTAL/PERMITTING SERVICES	25%			\$ 37,500,000
ADMINISTRATIVE	10%			\$ 15,000,000
CONSTRUCTION MANAGEMENT SERVICES	15%			\$ 22,500,000
Professional Services Subtotal				\$ 75,000,000
REAL ESTATE				
REAL ESTATE ACQUISITION	1	LS	\$ 1,605,000	\$ 1,605,000
Real Estate Acquisition Total				\$ 1,610,000
CORRIDOR SIGNAL TIMING MODIFICATIONS				
SIGNAL TIMING MODIFICATIONS	1	LS	\$ 160,000	\$ 160,000
Signal timing modifications				\$ 200,000
ESTIMATED PROJECT COST (LOW)				\$ 182,000,000
ESTIMATED PROJECT COST (HIGH)				\$ 318,000,000

PROJECT: CDTC - COLUMBIA RIVER CROSSING STUDY
DESCRIPTION: PLANNING-LEVEL COST ESTIMATE
CROSSING LOCATION: Mid-Valley Crossing

DATE: 1st Quarter, 2024

ITEM	QUANTITY	UNIT	UNIT PRICE (\$2024)	AMOUNT (ROUNDED) (\$2024)
PREPARATION				
REMOVE ROADWAY	9,000	SY	\$ 35	\$ 315,000
EARTHWORK				
EXCAVATION	2,000	CY	\$ 70	\$ 140,000
COMMON BORROW+EMBANKMENT COMPACTION	35,000	CY	\$ 65	\$ 2,275,000
ILLUMINATION				
LIGHTING	1	LS	\$ 250,000	\$ 250,000
STORMWATER				
STORMWATER CONVEYANCE, FLOW CONTROL, QUALITY (ALLOWANCE)	1	LS	\$ 250,000	\$ 250,000
ROADWAY				
HMA PAVEMENT	8,500	TON	\$ 220	\$ 1,870,000
CEMENT CONC SIDEWALK	300	SY	\$ 90	\$ 27,000
CEMENT CONC. CURB AND GUTTER	600	LF	\$ 50	\$ 30,000
CRUSHED SURFACING TOP/BASE COURSE	7,100	TON	\$ 80	\$ 568,000
PAVEMENT STRIPING/MARKING (ALLOWANCE)	1	LS	\$ 80,000	\$ 80,000
SIGNAGE	1	LS	\$ 60,000	\$ 60,000
ROUNDBOUT CONC CURBS AND ISLANDS	1	LS	\$ 200,000	\$ 200,000
STRUCTURES				
BRIDGE - COLUMBIA RIVER CROSSING	125,000	SF	\$ 800	\$ 100,000,000
BRIDGE - GRADE SEPARATION	0	SF	\$ 600	\$ 0
RETAINING WALL	0	SF	\$ 60	\$ 0
LANDSCAPING				
LANDSCAPING & IRRIGATION (ALLOWANCE)	1	LS	\$ 80,000	\$ 80,000
OTHER WORK				
NEW TRAFFIC SIGNAL	1	LS	\$ 600,000	\$ 600,000
RRFBs	1	LS	\$ 150,000	\$ 150,000
INTERSECTION IMPROVEMENT STEMILT & PERRY/ROCK ISLAND	1	LS	\$ 800,000	\$ 800,000
UTILITIES				
OVERHEAD POWER RELOCATION	1	LS	\$ 500,000	\$ 500,000
STORM, SEWER, WATER, COMMUNICATIONS RELOCATION	1	LS	\$ 250,000	\$ 250,000
Subtotal				\$ 108,500,000
MOBILIZATION / DEMOBILIZATION	5%			\$ 5,430,000
EROSION CONTROL/DEWATERING/SPCC	2%			\$ 2,170,000
TRAFFIC CONTROL	5%			\$ 5,430,000
PLANNING CONTINGENCY	30%			\$ 32,550,000
Construction Subtotal				\$ 154,100,000
PROFESSIONAL SERVICES				
PROFESSIONAL ENGINEERING/ENVIRONMENTAL/PERMITTING SERVICES	25%			\$ 38,530,000
ADMINISTRATIVE	10%			\$ 15,410,000
CONSTRUCTION MANAGEMENT SERVICES	15%			\$ 23,120,000
Professional Services Subtotal				\$ 77,100,000
REAL ESTATE				
REAL ESTATE ACQUISITION	1	LS	\$ 1,029,000	\$ 1,030,000
Real Estate Acquisition Total				\$ 1,030,000
ESTIMATED PROJECT COST (LOW)				\$ 186,000,000
ESTIMATED PROJECT COST (HIGH)				\$ 326,000,000

PROJECT: CDTC - COLUMBIA RIVER CROSSING STUDY
DESCRIPTION: PLANNING-LEVEL COST ESTIMATE
CROSSING LOCATION: Malaga/Rock Island Industrial Area

DATE: 1st Quarter, 2024

ITEM	QUANTITY	UNIT	UNIT PRICE (\$2024)	AMOUNT (ROUNDED) (\$2024)
PREPARATION				
REMOVE ROADWAY	9,000	SY	\$ 35	\$ 315,000
EARTHWORK				
EXCAVATION	20,000	CY	\$ 70	\$ 1,400,000
COMMON BORROW+EMBANKMENT COMPACTION CONTAMINATED SOIL*	9,000	CY	\$ 65	\$ 585,000
ILLUMINATION				
LIGHTING	1	LS	\$ 250,000	\$ 250,000
STORMWATER				
STORMWATER CONVEYANCE, FLOW CONTROL, QUALITY (ALLOWANCE)	1	LS	\$ 250,000	\$ 250,000
ROADWAY				
HMA PAVEMENT	12,200	TON	\$ 220	\$ 2,684,000
CEMENT CONC. PAVEMENT	0	SY	\$ 90	\$ 0
CEMENT CONC. CURB AND GUTTER	0	LF	\$ 50	\$ 0
CRUSHED SURFACING TOP/BASE COURSE	9,700	TON	\$ 80	\$ 776,000
PAVEMENT STRIPING/MARKING (ALLOWANCE)	1	LS	\$ 80,000	\$ 80,000
SIGNAGE	1	LS	\$ 40,000	\$ 40,000
ROUNDBOUT CONC CURBS AND ISLANDS	1	LS	\$ 180,000	\$ 180,000
STRUCTURES				
BRIDGE - COLUMBIA RIVER CROSSING	69,000	SF	\$ 800	\$ 55,200,000
BRIDGE - GRADE SEPARATION	7,500	SF	\$ 600	\$ 4,500,000
RETAINING WALL	0	SF	\$ 60	\$ 0
LANDSCAPING				
LANDSCAPING & IRRIGATION (ALLOWANCE)	1	LS	\$ 10,000	\$ 10,000
OTHER WORK				
INTERSECTION IMPROVEMENT MALAGA RD & STEMILT	1	LS	\$ 1,283,000	\$ 1,283,000
TRAFFIC SIGNAL MODIFICATIONS	0	LS	\$ 0	\$ 0
TRAFFIC SIGNALS/RRFBs	1	LS	\$ 0	\$ 0
UTILITIES				
OVERHEAD POWER RELOCATION/UNDERGROUNDING	1	LS	\$ 300,000	\$ 300,000
STORM, SEWER, WATER, COMMUNICATIONS RELOCATION	1	LS	\$ 30,000	\$ 30,000
Subtotal				\$ 67,900,000
MOBILIZATION / DEMOBILIZATION	5%			\$ 3,400,000
EROSION CONTROL/DEWATERING/SPCC	2%			\$ 1,360,000
TRAFFIC CONTROL	5%			\$ 3,400,000
PLANNING CONTINGENCY	30%			\$ 20,400,000
Construction Subtotal				\$ 96,500,000
PROFESSIONAL SERVICES				
PROFESSIONAL ENGINEERING/ENVIRONMENTAL/PERMITTING SERVICES	25%			\$ 24,130,000
ADMINISTRATIVE	10%			\$ 9,650,000
CONSTRUCTION MANAGEMENT SERVICES	15%			\$ 14,480,000
Professional Services Subtotal				\$ 48,300,000
REAL ESTATE				
REAL ESTATE ACQUISITION	1	LS	\$ 137,000	\$ 140,000
Real Estate Acquisition Total				\$ 140,000
ESTIMATED PROJECT COST (LOW)				\$ 116,000,000
ESTIMATED PROJECT COST (HIGH)				\$ 203,000,000

PROJECT: CDTC - COLUMBIA RIVER CROSSING STUDY
DESCRIPTION: PLANNING-LEVEL COST ESTIMATE
CROSSING LOCATION: NILE/PERRY EXTENSION

DATE: 1st Quarter, 2024

ITEM	QUANTITY	UNIT	UNIT PRICE (\$2024)	AMOUNT (ROUNDED) (\$2024)
PREPARATION				
REMOVE ROADWAY	5,600	SY	\$ 35	\$ 200,000
EARTHWORK				
EXCAVATION	4,000	CY	\$ 70	\$ 280,000
COMMON BORROW+EMBANKMENT COMPACTION	41,000	CY	\$ 65	\$ 2,665,000
ILLUMINATION				
LIGHTING	1	LS	\$ 40,000	\$ 40,000
STORMWATER				
STORMWATER CONVEYANCE, FLOW CONTROL, QUALITY (ALLOWANCE)	1	LS	\$ 200,000	\$ 200,000
ROADWAY				
HMA PAVEMENT	5,700	TON	\$ 220	\$ 1,260,000
CEMENT CONC. PAVEMENT	4,300	SY	\$ 90	\$ 387,000
CEMENT CONC. CURB AND GUTTER	6,400	LF	\$ 50	\$ 320,000
CRUSHED SURFACING TOP/BASE COURSE	5,900	TON	\$ 80	\$ 472,000
PAVEMENT STRIPING/MARKING (ALLOWANCE)	1	LS	\$ 15,000	\$ 15,000
SIGNAGE	1	LS	\$ 10,000	\$ 10,000
STRUCTURES				
BRIDGE - IRRIGATION CANAL	2,400	SF	\$ 450	\$ 1,080,000
RETAINING WALL	0	SF	\$ 60	\$ 0
LANDSCAPING				
LANDSCAPING & IRRIGATION (ALLOWANCE)	1	LS	\$ 10,000	\$ 10,000
OTHER WORK				
TRAFFIC SIGNAL MODIFICATIONS	0	LS	\$ 0	\$ 0
TRAFFIC SIGNALS/RRFBs	0	LS	\$ 0	\$ 0
UTILITIES				
OVERHEAD POWER RELOCATION/UNDERGROUNDING	0	LS	\$ 0	\$ 0
STORM, SEWER, WATER, COMMUNICATIONS RELOCATION	0	LS	\$ 0	\$ 0
			Subtotal	\$ 7,000,000
MOBILIZATION / DEMOBILIZATION	5%			\$ 350,000
EROSION CONTROL/DEWATERING/SPCC	2%			\$ 140,000
TRAFFIC CONTROL	5%			\$ 350,000
PLANNING CONTINGENCY	30%			\$ 2,100,000
			Construction Subtotal	\$ 9,900,000
PROFESSIONAL SERVICES				
PROFESSIONAL ENGINEERING/ENVIRONMENTAL/PERMITTING SERVICES	25%			\$ 2,475,000
ADMINISTRATIVE	10%			\$ 990,000
CONSTRUCTION MANAGEMENT SERVICES	15%			\$ 1,500,000
			Professional Services Subtotal	\$ 5,000,000
REAL ESTATE				
REAL ESTATE ACQUISITION	1	LS	\$ 100,000	\$ 100,000
			Real Estate Acquisition Total	\$ 100,000
ESTIMATED PROJECT COST (LOW)				\$ 12,000,000
ESTIMATED PROJECT COST (HIGH)				\$ 21,000,000