

APPENDIX D

High-Speed, Four-Lane SR 28 Planning-Level Opinion of Cost

PLANNING LEVEL OPINION OF COST SUMMARY

Project Description: SR 28 Corridor Study	Client: Chelan-Douglas Transportation Council
Corridor Section: SR 28: 3rd ST SE - Batterman Rd, Rock Island Rd	Date: Aug-21
Location: Chelan-Douglas Transportation Council	Date of Cost Index: 2022
	Calculated By/Entered By: EB
	Checked By: KSW/CJW

Rural 4-Lane Concept: SR 28 Only

		ITEM	UNIT	ESTIMATED COST	QTY	FUTURE COST
I.	RIGHT OF WAY					
		RIGHT OF WAY (urban undeveloped)	SF	\$8	-	\$0
		TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	-	\$0
		ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	12	\$180,000
		RIGHT OF WAY TOTAL				\$180,000
	FUTURE ROW COST BASED ON INFLATION RATE		Inflation 5%	ROW Year 2027	Cost Index 2022	Future Cost \$230,000
II.	CONSTRUCTION					
1	PREPARATION/GRADING/DRAINAGE					
	1.1 PREPARATION					
		CLEAR & GRUB, DEMO	ACRE	\$5,000	72	\$360,000
		REMOVING EXISTING PAVEMENT	SY	\$15	90,000	\$1,350,000
		REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$250,000	1	\$250,000
	1.2 EARTHWORK					
		ROADWAY EXCAVATION INCL. HAUL	CY	\$25	121,000	\$3,025,000
		STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	2,100	\$94,500
	1.3 STORMWATER MITIGATION					
		DETENTION AND TREATMENT	SF	\$10	2,245,000	\$22,450,000
	1.4 STORM SEWER					
		CATCH BASIN TYPE 1	EA	\$1,800	-	\$0
		CATCH BASIN TYPE 2	EA	\$5,000	-	\$0
		SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	-	\$0
		SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	-	\$0
2	STRUCTURE					
		RETAINING WALLS (MSE)	SF	\$75	121,300	\$9,097,500
3	SURFACING					
		HOT MIX ASPHALT	TON	\$80	126,000	\$10,080,000
		CRUSHED SURFACING	TON	\$35	85,000	\$2,975,000
4	ROADSIDE DEVELOPMENT					
		TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$1,283,000	1	\$1,283,000
5	TRAFFIC					
		TRAFFIC BARRIER	LF	\$300	45,000	\$13,500,000
		ILLUMINATION	LS	\$300,000	1	\$300,000
		SIGNING	LS	\$86,000	1	\$86,000
		STRIPING	LF	\$2	282,900	\$565,800
		CURBS	LF	\$45	-	\$0
		CURB RAMP	EA	\$8,000	-	\$0
		SIDEWALKS	SY	\$65	-	\$0
		TRAFFIC CONTROL (10%)	LS	\$6,414,000	1	\$6,414,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$1,283,000	1	\$1,283,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$73,113,800
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$7,311,400	1	\$7,311,400
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$80,425,200
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$80,425,200
13	CONTINGENCY (30% OF ITEM 12)	EST	\$24,127,600	1	\$24,127,600
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$104,552,800
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$203,744,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$15,683,000	1	\$15,683,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$5,227,700	1	\$5,227,700
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$29,424,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$15,683,000	1	\$15,683,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$5,227,700	1	\$5,227,700
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$140,000	1	\$140,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$24,369,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$257,767,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$258,000,000

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Loop Trail Extension

		ESTIMATED UNIT			
	ITEM	UNIT	COST	QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban undeveloped)	SF	\$8	-	\$0
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	-	\$0
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	-	\$0
	RIGHT OF WAY TOTAL				\$0
	FUTURE ROW COST BASED ON INFLATION RATE	Inflation	ROW Year	Cost Index	Future Cost
		5%	2027	2022	\$0
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
1.1	PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	14	\$70,000
	REMOVING EXISTING PAVEMENT	SY	\$15	-	\$0
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$50,000	1	\$50,000
1.2	EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$25	23,000	\$575,000
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	-	\$0
1.3	STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$10	307,200	\$3,072,000
1.4	STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,800	-	\$0
	CATCH BASIN TYPE 2	EA	\$5,000	-	\$0
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	-	\$0
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	-	\$0
2	STRUCTURE				
	RETAINING WALLS (MSE)	SF	\$75	-	\$0
3	SURFACING				
	HOT MIX ASPHALT	TON	\$80	6,800	\$544,000
	CRUSHED SURFACING	TON	\$35	12,200	\$427,000
4	ROADSIDE DEVELOPMENT				
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$95,000	1	\$95,000
5	TRAFFIC				
	TRAFFIC BARRIER	LF	\$300	-	\$0
	ILLUMINATION	LS	\$0	1	\$0
	SIGNING	LS	\$10,000	1	\$10,000
	STRIPING	LF	\$2	-	\$0
	CURBS	LF	\$45	-	\$0
	CURB RAMP	EA	\$8,000	-	\$0
	SIDEWALKS	SY	\$65	-	\$0
	TRAFFIC CONTROL (5%)	LS	\$238,000	1	\$238,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$95,000	1	\$95,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$5,176,000
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$517,600	1	\$517,600
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$5,693,600
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$5,693,600
13	CONTINGENCY (30% OF ITEM 12)	EST	\$1,708,100	1	\$1,708,100
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$7,401,700
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$14,424,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$1,110,300	1	\$1,110,300
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$370,100	1	\$370,100
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$2,084,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$1,110,300	1	\$1,110,300
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$370,100	1	\$370,100
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$140,000	1	\$140,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$1,876,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$18,384,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$19,000,000

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Corridor Section: SR 28: 3rd ST SE - Batterman Rd, Rock Island Rd	Date: May-22
Location: Chelan-Douglas Transportation Council	Date of Cost Index: 2022
	Calculated By/Entered By: RLO
	Checked By: BMP

RIR E-W Widening Only

		ESTIMATED UNIT			
	ITEM	UNIT	COST	QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban undeveloped)	SF	\$8	103,800	\$830,400
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	418,800	\$837,600
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	17	\$255,000
	RIGHT OF WAY TOTAL				\$1,923,000
	FUTURE ROW COST BASED ON INFLATION RATE	Inflation	ROW Year	Cost Index	Future Cost
		5%	2027	2022	\$2,455,000
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
1.1	PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	18	\$90,000
	REMOVING EXISTING PAVEMENT	SY	\$15	8,000	\$120,000
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$250,000	1	\$250,000
1.2	EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$25	25,000	\$625,000
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	600	\$27,000
1.3	STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$10	264,200	\$2,642,000
1.4	STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,800	696	\$1,252,800
	CATCH BASIN TYPE 2	EA	\$5,000	174	\$870,000
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	13,910	\$904,150
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	69,520	\$5,909,200
2	STRUCTURE				
	RETAINING WALLS (MSE)	SF	\$75	17,500	\$1,312,500
3	SURFACING				
	HOT MIX ASPHALT	TON	\$80	8,200	\$656,000
	CRUSHED SURFACING	TON	\$35	46,400	\$1,624,000
4	ROADSIDE DEVELOPMENT				
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$471,000	1	\$471,000
5	TRAFFIC				
	TRAFFIC BARRIER	LF	\$300	-	\$0
	ILLUMINATION	LS	\$0	1	\$0
	SIGNING	LS	\$67,000	1	\$67,000
	STRIPING	LF	\$2	151,900	\$303,800
	CURBS	LF	\$45	69,600	\$3,132,000
	CURB RAMP	EA	\$8,000	146	\$1,168,000
	SIDEWALKS	SY	\$65	39,600	\$2,574,000
	TRAFFIC CONTROL (10%)	LS	\$2,353,000	1	\$2,353,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$471,000	1	\$471,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$26,822,450
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$2,682,300	1	\$2,682,300
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$29,504,750
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$29,504,750
13	CONTINGENCY (30% OF ITEM 12)	EST	\$8,851,500	1	\$8,851,500
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$38,356,250
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$74,746,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$5,753,500	1	\$5,753,500
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$1,917,900	1	\$1,917,900
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$10,795,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$5,753,500	1	\$5,753,500
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$1,917,900	1	\$1,917,900
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$230,000	1	\$230,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$9,147,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$97,143,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$98,000,000

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	Checked By: BMP

RIR: Connection Concept

		ESTIMATED UNIT			
	ITEM	UNIT	COST	QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban undeveloped)	SF	\$8	215,000	\$1,720,000
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	60,000	\$120,000
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	5	\$75,000
	RIGHT OF WAY TOTAL				\$1,915,000
	FUTURE ROW COST BASED ON INFLATION RATE	Inflation	ROW Year	Cost Index	Future Cost
		5%	2027	2022	\$2,445,000
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
1.1	PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	6	\$30,000
	REMOVING EXISTING PAVEMENT	SY	\$15	-	\$0
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$250,000	1	\$250,000
1.2	EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$25	10,000	\$250,000
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	3,200	\$144,000
1.3	STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$10	160,000	\$1,600,000
1.4	STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,800	55	\$99,000
	CATCH BASIN TYPE 2	EA	\$5,000	15	\$75,000
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	1,100	\$71,500
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	5,500	\$467,500
2	STRUCTURE				
	RETAINING WALLS (MSE)	SF	\$75	30,800	\$2,310,000
3	SURFACING				
	HOT MIX ASPHALT	TON	\$80	3,300	\$264,000
	CRUSHED SURFACING	TON	\$35	14,200	\$497,000
4	ROADSIDE DEVELOPMENT				
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$137,000	1	\$137,000
5	TRAFFIC				
	TRAFFIC BARRIER	LF	\$300	-	\$0
	ILLUMINATION	LS	\$0	1	\$0
	SIGNING	LS	\$10,000	1	\$10,000
	STRIPING	LF	\$2	21,000	\$42,000
	CURBS	LF	\$45	11,000	\$495,000
	CURB RAMP	EA	\$8,000	-	\$0
	SIDEWALKS	SY	\$65	3,700	\$240,500
	TRAFFIC CONTROL (1%)	LS	\$69,000	1	\$69,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$137,000	1	\$137,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$7,188,500
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$718,900	1	\$718,900
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$7,907,400
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$7,907,400
13	CONTINGENCY (30% OF ITEM 12)	EST	\$2,372,300	1	\$2,372,300
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$10,279,700
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$2,033,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$1,542,000	1	\$1,542,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$514,000	1	\$514,000
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$2,893,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$1,542,000	1	\$1,542,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$514,000	1	\$514,000
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$230,000	1	\$230,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$2,647,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$28,018,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$29,000,000

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