

Appendix D:
Cost Estimates

For Planning Purposes Only

2nd Street & Chelan

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions																																																																						
Crossings																																																																															
Signage	1	E/A	\$325	\$400	\$325	\$400	\$325	\$400																																																																							
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SI: Square Foot
EA: Each

LS: Lump Sum
LP: Linear Foot

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2nd Street & Mission

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions																																																																						
Grossing	1	E/A	\$325	\$400	\$325	\$400	\$325	\$400																																																																							
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<p>SF: Square Foot LS: Lump-Sum EA: Each LF: Linear Foot</p>																																																																															

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2nd Street & Wenatchee Ave

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Audible Pedestrian Crossing (APP)	2	EA	\$1,400	\$1,400	\$2,200	\$2,900	\$2,200	\$2,900	
Crosswalk Pedestrian Head Displays	2	EA	\$300	\$800	\$400	\$1,600	\$2,800	\$4,000	
Crosswalk: Striping	140	L.F.	\$4	\$6	\$560	\$840	\$3,360	\$5,240	
Signage	3	EA	\$325	\$400	\$975	\$1,200	\$4,335	\$6,440	
Wreck-bar Ramps	2	EA	\$1,500	\$3,000	\$3,000	\$4,000	\$7,335	\$10,440	
Removal of Structures and Obstructions	1	EA	\$1,500	\$2,500	\$1,500	\$2,500	\$1,500	\$2,500	
Materials									
Asphalt	10	TON	\$200	\$250	\$1,900	\$2,375	\$9,235	\$12,315	
Sidewalks and Lighting									
Concrete Curb and Gutter Replace	65	L.F.	\$15	\$25	\$975	\$1,625	\$10,210	\$19,440	
Concrete Sidewalks Replacement	35	S.Y.	\$45	\$55	\$1,575	\$1,925	\$11,765	\$16,365	
Traffic									
Painted Striping Length	850	L.F.	\$1	\$2	\$850	\$1,700	\$12,635	\$18,065	
Plastic Striping Symbols	5	EA	\$150	\$200	\$750	\$1,000	\$13,345	\$19,065	
Right of Way Costs									
Improved Area - Parking/Unimproved	250	S.F.	\$25	\$30	\$6,250	\$7,500	\$19,635	\$26,565	Parcel with landscaping, parking improvements etc.
Relocation Costs									
Luminaire Relocation	1	EA	\$5,000	\$8,000	\$5,000	\$8,000	\$24,635	\$34,565	Relocating a single luminaire and junction box, includes all costs
Signal Standard Relocation	1	EA	\$30,000	\$40,000	\$30,000	\$40,000	\$54,635	\$74,565	Relocating signal standard only - not controller, this includes new conductors and foundation for moving within same mast
Signal Detection									
Camera Detection	1	EA	\$7,000	\$9,000	\$7,000	\$9,000	\$61,635	\$83,565	
TOTAL ANTICIPATED COST							\$196,176	\$344,448	

S.F.: Square Foot
EA: Each
L.S.: Lump Sum
L.F.: Linear Foot

Subtotal:	\$63,260	\$86,100
10% Traffic Control:	\$6,326	\$8,610
8% Mobilization:	\$5,061	\$6,888
25% Contingency:	\$15,860	\$21,525
25% Engineering/Permitting:	\$15,860	\$21,525
TOTAL ANTICIPATED COST	\$106,367	\$144,648

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5th Street

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions																		
Crossings																											
Signage	7	EA	\$325	\$400	\$2,275	\$2,800	\$2,275	\$2,800																			
Demolition																											
Removal of Structures and Obstruction	1	EA	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500																			
Traffic Calming																											
Painted Striping Length	2,000	L.F.	\$1	\$2	\$2,000	\$4,000	\$4,275	\$6,000																			
Plastic Striping Symbols	11	EA	\$150	\$200	\$1,650	\$2,200	\$5,925	\$9,000																			
Signal modifications																											
Re-Direction Signal Detection Cameras	1	EA	\$2,000	\$4,000	\$2,000	\$4,000	\$7,925	\$13,000	Re-aiming signal detection cameras to account for striping changes																		
Signal Head Modifications	6	EA	\$7,500	\$10,000	\$45,000	\$60,000	\$45,000	\$60,000	Signal head relocations per mast arm																		
<table border="0" style="width: 100%;"> <tr> <td style="width: 100px;">Subtotals:</td> <td>\$55,000</td> <td>\$75,000</td> </tr> <tr> <td>10% Traffic Control:</td> <td>\$5,500</td> <td>\$7,500</td> </tr> <tr> <td>8% Mobilization:</td> <td>\$4,400</td> <td>\$6,000</td> </tr> <tr> <td>25% Contingency:</td> <td>\$13,750</td> <td>\$18,750</td> </tr> <tr> <td>25 % Engineering/Permitting:</td> <td>\$13,750</td> <td>\$18,750</td> </tr> <tr> <td>TOTAL ANTICIPATED COST</td> <td>\$92,400</td> <td>\$125,000</td> </tr> </table>										Subtotals:	\$55,000	\$75,000	10% Traffic Control:	\$5,500	\$7,500	8% Mobilization:	\$4,400	\$6,000	25% Contingency:	\$13,750	\$18,750	25 % Engineering/Permitting:	\$13,750	\$18,750	TOTAL ANTICIPATED COST	\$92,400	\$125,000
Subtotals:	\$55,000	\$75,000																									
10% Traffic Control:	\$5,500	\$7,500																									
8% Mobilization:	\$4,400	\$6,000																									
25% Contingency:	\$13,750	\$18,750																									
25 % Engineering/Permitting:	\$13,750	\$18,750																									
TOTAL ANTICIPATED COST	\$92,400	\$125,000																									

SF: Square Foot
EA: Each

LS: Lump Sum
LF: Linear Foot

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Cost Estimates

For Planning Purposes Only

9th Street

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Signage	5	L/A	\$325	\$400	\$1,625	\$2,000	\$1,625	\$2,000	

Subtotals:		Low	High
10% Traffic Control:		\$1,630	\$2,000
8% Mobilization:		\$163	\$200
25% Contingency:		\$130	\$160
25% Engineering/Permitting:		\$408	\$500
TOTAL ANTICIPATED COST		\$2,731	\$3,960

SI- Square Foot
L/A- Each
L.S- Lump Sum
L.P- Linear Foot

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Cost Estimates

For Planning Purposes Only

Hawley

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Audible Pedestrian Crossing (PPI)	1	EA	\$1,400	\$1,400	\$1,400	\$1,400	\$1,400	\$1,400	
Crosswalk Pedestrian Head Displays	8	EA	\$900	\$900	\$6,300	\$6,300	\$5,040	\$7,800	
Crosswalk Striping	90	L.F.	\$4	\$6	\$360	\$540	\$3,600	\$9,340	
Signage	2	EA	\$325	\$400	\$650	\$800	\$4,510	\$9,140	
Wheelchair Ramp	2	EA	\$1,500	\$2,000	\$3,000	\$4,000	\$7,510	\$13,140	
Demolition									
Removal of Structures and Obstructions	1	EA	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	
Materials									
Asphalt	15	TUN	\$200	\$250	\$3,000	\$3,750	\$10,510	\$16,890	
Sidewalks and Lighting									
Concrete Curb and Gutter Replace	250	L.F.	\$15	\$25	\$3,750	\$6,250	\$14,240	\$23,140	
Concrete Sidewalks Replacement	40	SF	\$45	\$55	\$1,800	\$2,200	\$16,060	\$25,340	
Traffic Calming									
Painted Striping Length	1,270	L.F.	\$1	\$2	\$1,270	\$2,540	\$17,648	\$27,563	
Plastic Striping Symbols	4	EA	\$150	\$175	\$600	\$700	\$18,248	\$28,263	
Right of Way Costs									
Improved Area - Parking/landscaped	1,580	SF	\$25	\$30	\$39,500	\$47,400	\$55,748	\$73,263	Parcel with landscaping, parking improvements etc.
Relocation Costs									
Signal Standard Relocation	1	EA	\$40,000	\$40,000	\$40,000	\$40,000	\$45,748	\$113,263	
Controller Cabinet Relocation	1	EA	\$10,000	\$20,000	\$10,000	\$20,000	\$95,748	\$133,263	
Signal Detection									
Re-Directing Signal Detection Cameras	1	EA	\$2,000	\$4,000	\$2,000	\$4,000	\$2,000	\$4,000	Re-aiming signal detection cameras to account for striping changes

TOTAL ANTICIPATED COST	
Subtotal	\$168,000
10% Traffic Control	\$16,800
8% Mobilization	\$13,440
25% Contingency	\$42,000
25% Engineering/Permitting	\$42,000
TOTAL ANTICIPATED COST	\$232,240

SF - Square Foot
EA - Each
L.S. - Lamp Sum
L.F. - Linear Foot

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Kititas & Chelan

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Crosswalk: Signal	100	L.F.	\$4	\$6	\$400	\$600	\$400	\$600	
Signal	2	EA	\$325	\$400	\$650	\$800	\$1,050	\$1,400	
Signalized Intersections	1	L.S.	\$175,000	\$225,000	\$175,000	\$225,000	\$175,000	\$225,000	Estimate includes signalization and radius returns.
Demolition									
Removal of Structures and Obstruction	1	EA	\$5,000	\$10,000	\$5,000	\$10,000	\$5,000	\$10,000	

Subtotal:	\$182,000	\$237,000
10% Traffic Control:	\$18,200	\$23,700
8% Mobilization:	\$14,560	\$18,960
25% Contingency:	\$45,500	\$59,250
25% Engineering/Permitting:	\$45,500	\$59,250
TOTAL ANTICIPATED COST:	\$306,760	\$398,160

SF: Square Foot
EA: Each
L.S.: Lump Sum
L.F.: Linear Foot

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Cost Estimates

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Kittitas & Mission

Item Description	Qty	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings	1	E/A	\$325	\$400	\$325	\$400	\$325	\$400	
Signage									
Subrocks:									
10% Traffic Control							\$330	\$400	
8% Mobilization							\$33	\$40	
25% Contingency							\$26	\$32	
25% Engineering/Permitting							\$83	\$100	
TOTAL ANTICIPATED COST							\$554	\$672	

SP: Square Foot LS: Lump Sum
EA: Each LP: Linear Foot

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Cost Estimates

For Planning Purposes Only

Kititas & Wenatchee Ave

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Audible Pedestrian Crossing PHP	4	EA	\$1,100	\$1,400	\$4,400	\$5,600	\$4,400	\$5,600	
Crosswalk Striping	150	LF	\$4	\$6	\$600	\$900	\$5,000	\$6,500	
Signage	3	EA	\$325	\$400	\$975	\$1,200	\$5,975	\$7,100	
Wheelchair Ramps	2	EA	\$1,500	\$2,000	\$3,000	\$4,000	\$8,975	\$11,700	
Demolition									
Removal of Structures and Obstruction	1	EA	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	
Materials									
Asphalt	10	SF	\$200	\$250	\$2,000	\$2,500	\$10,975	\$14,200	
Sidewalks and Lighting									
Concrete Curb and Gutter Replace	65	LF	\$15	\$25	\$975	\$1,625	\$11,950	\$15,825	
Concrete Sidewalks Replacement	55	SY	\$45	\$55	\$2,475	\$3,025	\$14,425	\$18,850	
Traffic Calming									
Chicanes	1	L-S	\$20,000	\$30,000	\$20,000	\$30,000	\$34,425	\$48,850	
Right of Way Costs									
Improved Area - Parking/ landscaped	180	SF	\$25	\$30	\$4,500	\$5,400	\$36,925	\$54,250	Parcel with landscaping, parking improvements etc.
Relocation Costs									
Luminaire Relocation	1	EA	\$5,000	\$8,000	\$5,000	\$8,000	\$43,925	\$62,250	Includes all costs to relocate a single luminaire, junction box and new foundation.
Signal Standard Relocation	1	EA	\$30,000	\$40,000	\$30,000	\$40,000	\$73,925	\$102,250	Relocating signal standard only - not controller, this includes new conductors and foundation for moving within same quadrant

Subtotal:	\$76,000	\$104,000
10% Traffic Control:	\$7,600	\$10,400
8% Mobilization:	\$6,080	\$8,320
25% Contingency:	\$19,000	\$26,000
25% Engineering/Permitting:	\$19,000	\$26,000
TOTAL ANTICIPATED COST	\$127,680	\$174,720

SF: Square Foot
EA: Each
L-S: Lump Sum
LF: Linear Foot

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Orondo

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Signage	4	EA	\$300	\$400	\$1,200	\$1,600	\$1,200	\$1,600	
Traffic									
Painted Striping Length	2,000	L.F.	\$1	\$2	\$2,000	\$3,500	\$3,700	\$5,100	
Plastic Striping Symbols	11	EA	\$150	\$175	\$1,650	\$1,925	\$5,350	\$7,025	
Signal Modifications									
Signal Detection Camera	4	EA	\$7,000	\$9,000	\$28,000	\$36,000	\$33,350	\$43,025	Re-using signal detection camera to account for striping changes
Signal Head Modifications	6	EA	\$7,500	\$10,000	\$45,000	\$60,000	\$43,000	\$60,000	Signal head relocations per mast arm.

Subtotals			
100% Traffic Control		\$79,000	\$104,000
8% Mobilization		\$6,320	\$8,320
25% Contingency		\$19,750	\$26,000
25% Engineering/Permitting		\$19,750	\$26,000
TOTAL ANTICIPATED COST		\$132,720	\$174,720

SF: Square Foot
EA: Each
LS: Lump Sum
L.F.: Linear Foot

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Riverside Dr

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Signage	5	EA	\$300	\$400	\$1,500	\$2,000	\$1,500	\$2,000	
Overhead Signage	2	EA	\$5,000	\$15,000	\$10,000	\$30,000	\$11,500	\$32,000	
Traffic Calming									
Pavement Stripping Symbols	1	EA	\$150	\$175	\$150	\$175	\$1,650	\$2,175	

Subtotal:	\$11,700	\$32,200
10% Traffic Control:	\$1,170	\$3,220
8% Mobilization:	\$936	\$2,576
25% Contingency:	\$2,925	\$8,050
25% Engineering/Retaining:	\$2,925	\$8,050
TOTAL ANTICIPATED COST	\$19,656	\$54,096

SF: Square Foot
EA: Each

LS: Lump Sum
LF: Linear Foot

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Thurston

Item Description	Qty.	Unit	Low Unit \$	High Unit \$	Low Price	High Price	Low Subtotal	High Subtotal	Notes & Assumptions
Crossings									
Signage	3	EA	\$300	\$400	\$300	\$1,200	\$900	\$1,200	
Trails									
Painted Striping Length	1,050	L.F.	\$1	\$2	\$1.313	\$1,838	\$2,213	\$3,038	
Plastic Striping Symbols	4	EA	\$150	\$200	\$600	\$800	\$2,813	\$3,838	
<p>Subtotal: \$3,000</p> <p>10% Traffic Control: \$300</p> <p>8% Mobilization: \$240</p> <p>25% Contingency: \$750</p> <p>25% Pavement/Trimming: \$750</p> <p>TOTAL ANTICIPATED COST: \$5,040</p>									

SF: Square Foot
EA: Each

LS: Lamp Sum
LF: Linear Foot