

University Area Transportation Action Strategy  
Appendices

**E. Cost Estimates Memorandum**



# University Area Transportation Action Strategy

## Cost Estimates Memorandum

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## SUMMARY

This memorandum summarizes the cost estimation process used to evaluate the UATAS projects. These estimates provide a planning-level cost of a proposed project in 2007 dollars. Detailed estimates, which consider specific factors observed in the field, will be developed as part of the Plans, Specification and Estimate (PS&E) process. Cost estimates were not prepared for Partnership Projects.

## COST ELEMENTS

The cost estimates developed for the UATAS provide an initial analysis of the cost of a particular improvement or action. All costs were coordinated and reviewed by SDOT staff to reflect the costs similar projects within Seattle.

The cost estimates are broken down into three main components: Construction Costs, Right of Way Costs and Engineering/Management Costs.

### *Construction Costs*

Construction costs are those costs that are associated with the materials and labor related to building the project. These include earthwork, utilities, storm drainage, pavement materials, lighting, traffic control signals, signing and striping and landscaping costs. Also included are the costs to mobilize the project (12 percent of construction costs) for temporary traffic control (10 percent of construction costs) and a 30 percent construction contingency.

### *Right of Way Costs*

For projects that require the purchase of land, buildings or easements, right of way costs are included. Additional costs include settlement costs on purchases and the cost for administration of right of way.

### *Engineering/Management Costs*

Engineering and Management costs include the preliminary design and survey costs (20 percent of construction costs) and construction inspection costs (15 percent of construction costs).

## SUMMARY OF UATAS PROJECT COSTS

Cost estimates were developed for each of the early implementation, high priority and medium priority projects identified from the prioritization process. **Table 1** summarizes the project cost estimates for the UATAS.

## INDIVIDUAL PROJECT SHEETS

Each of the project cost estimates is included in this appendix. The projects are listed in the same order as they appear in Table 1.

**Table 1. Summary Cost of UATAS Projects**

Project #	Project Description	Construction Cost	R-O-W Cost	Engineering	Total
	Activation of pedestrian signal phase at all signals in the urban center.				
A	Remove push buttons to avoid confusions	\$57,900	\$0	\$20,300	\$78,200
B	University Way/Pacific Street vegetation removal	\$18,200	\$0	\$6,400	\$24,600
C	6th Avenue NE/Lower NE 40th Street intersection striping	\$5,900	\$0	\$2,100	\$8,000
D	Montlake Boulevard/NE Shelby traffic island-striping	\$16,400	\$0	\$5,700	\$22,100
E	25th Avenue NE off-peak parking control	\$57,900	\$0	\$20,300	\$78,200
F	Burke-Gilman crossing at Pend Oreille, Brooklyn, Blakely	\$21,400	\$0	\$7,500	\$28,900
G	15th Avenue/Ravenna Blvd monitoring	\$0	\$0	\$0	\$0
H	Brooklyn Avenue Sharrows	\$28,500	\$0	\$10,000	\$38,500
I	Ravenna Bicycle Safety: Repaving Project	\$0	\$0	\$0	\$0
J	15th Avenue NE and NE Campus Parkway left turn protected phase	\$182,000	\$0	\$63,700	\$245,700
K	University Bridge Lighting	\$306,500	\$0	\$107,300	\$413,800
1	NE 45th Street Corridor westbound BAT lane; transit speed and reliability	\$637,500	\$0	\$223,100	\$860,600
3	15th Avenue NE/NE 45th Street northbound left turn lane extension	\$71,800	\$0	\$25,100	\$96,900
	Roosevelt Way NE/11th Avenue NE Corridors; Peak period bicycle and transit lanes				
4	Roosevelt Way NE/11th Avenue NE Corridors; Peak period bicycle and transit lanes	\$210,100	\$0	\$73,600	\$283,700
5	25th Avenue NE Burke-Gilman Trail crossing	\$75,200	\$0	\$26,300	\$101,500
6	NE 43rd Street sidewalk widening and curb extensions	\$689,600	\$0	\$241,400	\$931,000
7	Eastlake Avenue E; Bicycle queue jump	\$367,600	\$0	\$128,600	\$496,200
8	Eastlake Avenue E and Campus Parkway: Modify loop ramps	\$869,000	\$0	\$304,200	\$1,173,200
9	University Way NE; Urban design, pedestrian and bicycle access	\$2,004,700	\$0	\$701,600	\$2,706,300
10	Ravenna Boulevard/NE 55th St corridor	\$886,700	\$22,000	\$310,300	\$1,219,000
11	NE 45th St Trail to Burke-Gilman	\$1,679,700	\$0	\$587,900	\$2,267,600
12	Burke-Gilman Trail crossing at Brooklyn Ave	\$251,500	\$0	\$88,000	\$339,500
	Roosevelt Way and 11th Avenue NE pedestrian improvements: curb bulbs at NE 55th St				
13	Roosevelt Way and 11th Avenue NE pedestrian improvements: curb bulbs at NE 55th St	\$31,600	\$0	\$11,000	\$42,600
14	Burke Gilman Trail/NE 40th St bicycle connection	\$323,900	\$0	\$113,400	\$437,300
16	Burke Gilman Trail crossing University Way/Pacific Street	\$32,800	\$0	\$11,500	\$44,300
17	8th Avenue NE between NE 64th and NE 65th Streets curb bulbs	\$114,300	\$0	\$40,000	\$154,300
19	Weedin Place closure at NE 66th Street	\$131,800	\$0	\$46,100	\$177,900
20	NE 50th Street/15th Avenue NE left turn pockets (EB/WB)	\$127,300	\$0	\$44,500	\$171,800
21	Burke-Gilman Trail connection at 36th Avenue NE	\$34,000	\$36,500	\$11,900	\$82,400
22	Burke-Gilman Trail and University Village at 25th/47th Connection	\$499,700	\$220,000	\$174,900	\$894,600
23	7th Avenue NE/NE 40th Street roundabout	\$826,500	\$16,400	\$289,300	\$1,132,200
24	11th Avenue NE/Eastlake Avenue/NE 41st Street pedestrian signal	\$179,600	\$0	\$62,900	\$242,500
	Ravenna Ave NE Corridor from NE 55th Street to NE Ravenna Blvd Off-Street Bike Facility				
25	Ravenna Ave NE Corridor from NE 55th Street to NE Ravenna Blvd Off-Street Bike Facility	\$313,600	\$0	\$109,700	\$423,300
26	Montlake Boulevard/Hamlin Street - Extend u-turn lane	\$53,600	\$0	\$18,800	\$72,400
27	25th Avenue NE/NE 55th Street NB/SB left turn pockets	\$458,200	\$230,500	\$160,400	\$849,100
28	NE 45th Corridor from 15th to 20th sidewalk	\$978,000	\$80,500	\$342,300	\$1,400,800
29	Northlake Way reconstruction	\$748,000	\$0	\$261,800	\$1,009,800
30	Montlake Boulevard NE and NE Shelby Street	\$581,600	\$0	\$203,600	\$785,200
31	NE 50th Street traffic calming from 30th Ave NE to 35th Ave NE	\$288,900	\$0	\$101,100	\$390,000
32	Montlake Blvd/NE 45th Corridor variable sign	\$539,200	\$0	\$188,700	\$727,900

Project Estimate

Name: Project A - Activation of pedestrian signal phase at all signals in the urban center. Remove push buttons to avoid confusion.

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 4,380	\$ 4,380
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 3,650	\$ 3,650
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	48	EA	\$ 500	\$ 24,000
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 36,500
<b>SUBTOTAL</b>				\$ 44,530
<b>CONTINGENCY</b>			30%	\$ 13,359
<b>TOTAL CONSTRUCTION COST</b>				\$ 57,889

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 11,578
Construction, Inspection (15%)				\$ 8,683
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 20,261

TOTAL CONSTRUCTION COST				\$ 57,889
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 20,261
<b>TOTAL PROJECT COSTS</b>				\$ 78,150

Notes: \$500 per intersection includes removal of unit, cover plate, installation, reprogramming  
48 signalized intersections estimated for Urban core. Unclear how many have push buttons.

Project Estimate  
 Name: Project B - University Way/Pacific Vegetation Removal

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 1,500	\$ 1,500
Traffic Control (10% of Const. Subtotal)	0	LS	\$ 1,250	\$ -
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	100	LF	\$ 125	\$ 12,500
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 12,500
<b>SUBTOTAL</b>				\$ 14,000
<b>CONTINGENCY</b>			30%	\$ 4,200
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>18,200</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 3,640
Construction, Inspection (15%)				\$ 2,730
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>6,370</b>

TOTAL CONSTRUCTION COST				\$ 18,200
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 6,370
<b>TOTAL PROJECT COSTS</b>				\$ <b>24,570</b>

Notes: ~3300 feet study corridor  
 12 foot wide lanes

Project Estimate  
 Name: Project C - 6th Avenue NE/Lower NE 40th Street Intersection Striping

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 450	\$ 450
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 375	\$ 375
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	250	LF	\$ 15	\$ 3,750
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 3,750
<b>SUBTOTAL</b>				\$ 4,575
<b>CONTINGENCY</b>			30%	\$ 1,373
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>5,948</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 1,190
Construction, Inspection (15%)				\$ 892
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>2,082</b>

TOTAL CONSTRUCTION COST				\$ 5,948
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 2,082
<b>TOTAL PROJECT COSTS</b>				\$ <b>8,029</b>

Notes: ~125 feet per direction for striping

Project Estimate  
 Name: Project D - Montlake Boulevard/NE Shelby Traffic Island-Striping

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 1,243	\$ 1,243
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 1,036	\$ 1,036
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	50	LF	\$ 50	\$ 2,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	17	TON	\$ 65	\$ 1,105
Curb and Gutter	50	LF	\$ 15	\$ 750
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	1	EA	\$ 1,500	\$ 1,500
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	300	LF	\$ 15	\$ 4,500
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 10,355
<b>SUBTOTAL</b>				\$ 12,633
<b>CONTINGENCY</b>			30%	\$ 3,790
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>16,423</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 3,285
Construction, Inspection (15%)				\$ 2,463
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>5,748</b>

TOTAL CONSTRUCTION COST				\$ 16,423
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 5,748
<b>TOTAL PROJECT COSTS</b>				\$ <b>22,171</b>

Notes: ~300 feet study corridor  
 stripe bike lane, rebuild curb, add ramp, remove portion of island.  
 assume no need to modify or relocate signal.  
 assume no storm or utilities affected.

Project Estimate  
 Name: Project E - 25th Avenue NE Off-Peak parking control

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 4,770	\$ 4,770
Traffic Control (10% of Const. Subtotal)	0	LS	\$ 3,975	\$ -
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	2650	LF	\$ 15	\$ 39,750
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 39,750
<b>SUBTOTAL</b>				\$ 44,520
<b>CONTINGENCY</b>			30%	\$ 13,356
<b>TOTAL CONSTRUCTION COST</b>				\$ 57,876

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 11,575
Construction, Inspection (15%)				\$ 8,681
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 20,257

TOTAL CONSTRUCTION COST				\$ 57,876
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 20,257
<b>TOTAL PROJECT COSTS</b>				\$ 78,133

Notes: ~3300 feet study corridor  
 12 foot wide lanes

Project Estimate  
 Name: Project F - Burke-Gilman crossing at Pend Oreille, Brooklyn, Blakely

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 1,620	\$ 1,620
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 1,350	\$ 1,350
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	900	LF	\$ 15	\$ 13,500
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 13,500
<b>SUBTOTAL</b>				\$ 16,470
<b>CONTINGENCY</b>			30%	\$ 4,941
<b>TOTAL CONSTRUCTION COST</b>				\$ 21,411

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 4,282
Construction, Inspection (15%)				\$ 3,212
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 7,494

TOTAL CONSTRUCTION COST				\$ 21,411
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 7,494
<b>TOTAL PROJECT COSTS</b>				\$ 28,905

Notes: 3 locations with ~60 feet study corridor  
 Equivalent of x5 striping to account for special paving design.

Project Estimate  
 Name: Project G - 15th Avenue/Ravenna Monitoring

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total	
Mobilization (12% of Const. Subtotal)	0	LS	\$ -	\$ -	-
Traffic Control (10% of Const. Subtotal)	0	LS	\$ -	\$ -	-
Earthwork High	0	LF	\$ 115	\$ -	-
Earthwork Medium	0	LF	\$ 90	\$ -	-
Earthwork Low	0	LF	\$ 65	\$ -	-
Utility Undergrounding	0	LF	\$ 200	\$ -	-
Removals	0	LF	\$ 50	\$ -	-
Storm Drainage - New	0	LF	\$ 130	\$ -	-
Storm Drainage - Modify	0	LF	\$ 80	\$ -	-
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -	-
Curb and Gutter	0	LF	\$ 15	\$ -	-
Sidewalk	0	SY	\$ 55	\$ -	-
Curb Ramps	0	EA	\$ 1,500	\$ -	-
Lighting (cobra head)	0	LF	\$ 65	\$ -	-
Lighting (decorative)	0	LF	\$ 115	\$ -	-
Interconnect	0	LF	\$ 20	\$ -	-
New Signal	0	EA	\$ 225,000	\$ -	-
Modify Signal	0	EA	\$ 75,000	\$ -	-
Signing and Striping	0	LF	\$ 15	\$ -	-
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -	-
Miscellaneous Utilities	0	LF	\$ 30	\$ -	-
Temporary Erosion Control	0	LF	\$ 30	\$ -	-
Fence	0	LF	\$ 35	\$ -	-
Railing	0	LF	\$ 55	\$ -	-
Urban Design Features		LS	\$ -	\$ -	-
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ -	-
<b>SUBTOTAL</b>				\$ -	-
<b>CONTINGENCY</b>			30%	\$ -	-
<b>TOTAL CONSTRUCTION COST</b>				\$ -	-

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -	-
Land - Residential	0	SF	\$ 35	\$ -	-
Temporary Easement	0	EA	\$ 2,000	\$ -	-
Building(s)	0	LS	\$ -	\$ -	-
Parking / Damages	0	EA	\$ -	\$ -	-
Settlement Costs	0	LS	\$ 2,000	\$ -	-
ROW Administration	0	LS	\$ 10,500	\$ -	-
<b>TOTAL RIGHT OF WAY COST</b>				\$ -	-

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ -	-
Construction, Inspection (15%)				\$ -	-
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ -	-

TOTAL CONSTRUCTION COST				\$ -	-
TOTAL RIGHT OF WAY COST				\$ -	-
TOTAL ENGINEERING / MANAGEMENT COST				\$ -	-
<b>TOTAL PROJECT COSTS</b>				\$ -	-

Notes: ~3300 feet study corridor  
 12 foot wide lanes

Project Estimate  
 Name: Project H - Brooklyn Avenue Sharrows

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 2,160	\$ 2,160
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 1,800	\$ 1,800
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	1200	LF	\$ 15	\$ 18,000
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 18,000
<b>SUBTOTAL</b>				\$ 21,960
<b>CONTINGENCY</b>			30%	\$ 6,588
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 28,548</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 5,710
Construction, Inspection (15%)				\$ 4,282
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 9,992</b>

TOTAL CONSTRUCTION COST				\$ 28,548
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 9,992
<b>TOTAL PROJECT COSTS</b>				<b>\$ 38,540</b>

Notes: ~8000 feet study corridor  
 Sharrows = 15% of striping cost

Project Estimate  
 Name: Project I - Ravenna Bicycle Safety: Repaving Project

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	0	LS	\$ -	\$ -
Traffic Control (10% of Const. Subtotal)	0	LS	\$ -	\$ -
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ -
<b>SUBTOTAL</b>				\$ -
<b>CONTINGENCY</b>			30%	\$ -
<b>TOTAL CONSTRUCTION COST</b>				\$ -

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ -
Construction, Inspection (15%)				\$ -
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ -

TOTAL CONSTRUCTION COST				\$ -
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ -
<b>TOTAL PROJECT COSTS</b>				\$ -

Project Estimate

Name: Project J - 15th Avenue NE and NE Campus Parkway left turn protected phase

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 13,770	\$ 13,770
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 11,475	\$ 11,475
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0.5	EA	\$ 225,000	\$ 112,500
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	150	LF	\$ 15	\$ 2,250
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 114,750
<b>SUBTOTAL</b>				\$ 139,995
<b>CONTINGENCY</b>			30%	\$ 41,999
<b>TOTAL CONSTRUCTION COST</b>				\$ 181,994

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 36,399
Construction, Inspection (15%)				\$ 27,299
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 63,698

TOTAL CONSTRUCTION COST				\$ 181,994
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 63,698
<b>TOTAL PROJECT COSTS</b>				\$ 245,691

Notes: Requires two new signal masts

Signal is currently runs off of the median. Project will create similar signal config as Univ. or Brooklyn

Assume need one new standard for left turns by ped bridge.

Project Estimate  
 Name: Project K - University Bridge Lighting

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 23,188	\$ 23,188
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 19,323	\$ 19,323
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	3100	LF	\$ 69	\$ 193,233
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 193,233
<b>SUBTOTAL</b>				\$ 235,745
<b>CONTINGENCY</b>			30%	\$ 70,723
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 306,468</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 61,294
Construction, Inspection (15%)				\$ 45,970
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 107,264</b>

TOTAL CONSTRUCTION COST				\$ 306,468
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 107,264
<b>TOTAL PROJECT COSTS</b>				<b>\$ 413,732</b>

Notes:

Assumes installation of signal on existing trolley poles across bridge.  
 Lighting cost estimate is 60% of standard (Pole) Decorative.  
 Total distance at 3100 ft

Project Estimate

Name: Project 1 - NE 45th Street Corridor BAT lane; Transit Speed and Reliability

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 48,234	\$ 48,234
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 40,195	\$ 40,195
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	100	LF	\$ 80	\$ 8,000
Asphalt Concrete Pavement	30	TON	\$ 65	\$ 1,950
Curb and Gutter	100	LF	\$ 15	\$ 1,500
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	5	EA	\$ 75,000	\$ 375,000
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	100	LF	\$ 30	\$ 3,000
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 401,950
<b>SUBTOTAL</b>				\$ 490,379
<b>CONTINGENCY</b>			30%	\$ 147,114
<b>TOTAL CONSTRUCTION COST</b>				\$ 637,493

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 127,499
Construction, Inspection (15%)				\$ 95,624
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 223,122

TOTAL CONSTRUCTION COST				\$ 637,493
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 223,122
<b>TOTAL PROJECT COSTS</b>				\$ 860,615

Notes:

Widening required at 7th Avenue for transition back to existing lane configuration  
 Assume keeping EB left turn pocket at 15th Ave NE  
 corridor length ~2100 ft

Project Estimate

Name: Project 3 - 15th Avenue NE/NE 45th Street northbound left turn lane extension.

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 5,436	\$ 5,436
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 4,530	\$ 4,530
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0.5	EA	\$ 75,000	\$ 37,500
Signing and Striping	520	LF	\$ 15	\$ 7,800
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 45,300
<b>SUBTOTAL</b>				\$ 55,266
<b>CONTINGENCY</b>			30%	\$ 16,580
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>71,846</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 14,369
Construction, Inspection (15%)				\$ 10,777
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>25,146</b>

TOTAL CONSTRUCTION COST				\$ 71,846
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 25,146
<b>TOTAL PROJECT COSTS</b>				\$ <b>96,992</b>

Notes:

Corridor length ~520 feet. 0.5 signal mod for retiming and coordination restripe south of NE 45th. Create transition after NE 43rd St.

Project Estimate

Name: Project 4 - Roosevelt Way NE/11th Avenue NE Corridors; Bicycle and Transit Access and Safety

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 15,900	\$ 15,900
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 13,250	\$ 13,250
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	100	LF	\$ 15	\$ 1,500
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	6	EA	\$ 1,500	\$ 9,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	7300	LF	\$ 15	\$ 109,500
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 132,500
<b>SUBTOTAL</b>				\$ 161,650
<b>CONTINGENCY</b>			30%	\$ 48,495
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>210,145</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 42,029
Construction, Inspection (15%)				\$ 31,522
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>73,551</b>

TOTAL CONSTRUCTION COST				\$ 210,145
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 73,551
<b>TOTAL PROJECT COSTS</b>				\$ <b>283,696</b>

Notes:

Corridor length 6900 and 7000 feet  
removals for curb bulbs to create turn lane

Project Estimate  
 Name: Project 5 -25th Avenue NE Burke-Gilman Crossing

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 5,690	\$ 5,690
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 4,742	\$ 4,742
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	60	LF	\$ 65	\$ 3,900
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	60	LF	\$ 50	\$ 3,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	28	TON	\$ 65	\$ 1,820
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0.5	EA	\$ 75,000	\$ 37,500
Signing and Striping	80	LF	\$ 15	\$ 1,200
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 47,420
<b>SUBTOTAL</b>				\$ 57,852
<b>CONTINGENCY</b>			30%	\$ 17,356
<b>TOTAL CONSTRUCTION COST</b>				\$ 75,208

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 15,042
Construction, Inspection (15%)				\$ 11,281
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 26,323

TOTAL CONSTRUCTION COST				\$ 75,208
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 26,323
<b>TOTAL PROJECT COSTS</b>				\$ 101,531

Notes: restriping, bicycle signal timing modification (.5 signal mod)

Project Estimate  
 Name: Project 6 - NE 43rd Street sidewalk widening and curb extensions

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 52,176	\$ 52,176
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 43,480	\$ 43,480
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	2800	LF	\$ 50	\$ 140,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	1400	LF	\$ 80	\$ 112,000
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	2800	LF	\$ 15	\$ 42,000
Sidewalk	1900	SY	\$ 55	\$ 104,500
Curb Ramps	20	EA	\$ 1,500	\$ 30,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	420	LF	\$ 15	\$ 6,300
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 434,800
<b>SUBTOTAL</b>				\$ 530,456
<b>CONTINGENCY</b>			30%	\$ 159,137
<b>TOTAL CONSTRUCTION COST</b>				\$ 689,593

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 137,919
Construction, Inspection (15%)				\$ 103,439
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 241,357

TOTAL CONSTRUCTION COST				\$ 689,593
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 241,357
<b>TOTAL PROJECT COSTS</b>				\$ 930,950

Notes:1400' project area

Project Estimate  
 Name: Project 7 - Eastlake Avenue E; Bicycle Access and Safety

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 27,810	\$ 27,810
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 23,175	\$ 23,175
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	250	LF	\$ 115	\$ 28,750
Interconnect	0	LF	\$ 20	\$ -
New Signal	0.5	EA	\$ 225,000	\$ 112,500
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 231,750
<b>SUBTOTAL</b>				\$ 282,735
<b>CONTINGENCY</b>			30%	\$ 84,821
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 367,556</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 73,511
Construction, Inspection (15%)				\$ 55,133
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 128,644</b>

TOTAL CONSTRUCTION COST				\$ 367,556
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 128,644
<b>TOTAL PROJECT COSTS</b>				<b>\$ 496,200</b>

Notes: restriping, bicycle signal main costs (0.5 new signal), push button (1 signal mod)

Project Estimate  
 Name: Project 8 - Eastlake Avenue E and Campus Parkway Loop Ramp

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 65,754	\$ 65,754
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 54,795	\$ 54,795
Earthwork High	600	LF	\$ 115	\$ 69,000
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	600	LF	\$ 50	\$ 30,000
Storm Drainage - New	600	LF	\$ 130	\$ 78,000
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	200	TON	\$ 65	\$ 13,000
Curb and Gutter	4400	LF	\$ 15	\$ 66,000
Sidewalk	890	SY	\$ 55	\$ 48,950
Curb Ramps	4	EA	\$ 1,500	\$ 6,000
Lighting (cobra head)	600	LF	\$ 65	\$ 39,000
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	400	LF	\$ 125	\$ 50,000
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	200	LF	\$ 30	\$ 6,000
Fence	200	LF	\$ 35	\$ 7,000
Railing	0	LF	\$ 55	\$ -
Urban Design Features	6	LS	\$ 10,000	\$ 60,000
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 547,950
<b>SUBTOTAL</b>				\$ 668,499
<b>CONTINGENCY</b>			30%	\$ 200,550
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 869,049</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 173,810
Construction, Inspection (15%)				\$ 130,357
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 304,167</b>

TOTAL CONSTRUCTION COST				\$ 869,049
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 304,167
<b>TOTAL PROJECT COSTS</b>				<b>\$ 1,173,216</b>

Notes: corridor 2200 feet

Project Estimate

Name: Project 9 - University Way NE; Urban Design, Pedestrian and Bicycle Access

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 151,680	\$ 151,680
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 126,400	\$ 126,400
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	4400	LF	\$ 90	\$ 396,000
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	4400	LF	\$ 80	\$ 352,000
Asphalt Concrete Pavement	200	TON	\$ 65	\$ 13,000
Curb and Gutter	4400	LF	\$ 15	\$ 66,000
Sidewalk	500	SY	\$ 55	\$ 27,500
Curb Ramps	20	EA	\$ 1,500	\$ 30,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	800	LF	\$ 125	\$ 100,000
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	4400	LF	\$ 30	\$ 132,000
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	6	LS	\$ 10,000	\$ 60,000
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 1,264,000
<b>SUBTOTAL</b>				\$ 1,542,080
<b>CONTINGENCY</b>			30%	\$ 462,624
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 2,004,704</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 400,941
Construction, Inspection (15%)				\$ 300,706
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 701,646</b>

TOTAL CONSTRUCTION COST				\$ 2,004,704
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 701,646
<b>TOTAL PROJECT COSTS</b>				<b>\$ 2,706,350</b>

Notes: corridor 2200 feet

Project Estimate  
 Name: Project 10 - Ravenna Boulevard/NE 55th St Corridor

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 67,086	\$ 67,086
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 55,905	\$ 55,905
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	1100	LF	\$ 65	\$ 71,500
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	1100	LF	\$ 50	\$ 55,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	1100	LF	\$ 80	\$ 88,000
Asphalt Concrete Pavement	550	TON	\$ 65	\$ 35,750
Curb and Gutter	2200	LF	\$ 15	\$ 33,000
Sidewalk	1500	SY	\$ 55	\$ 82,500
Curb Ramps	8	EA	\$ 1,500	\$ 12,000
Lighting (cobra head)	420	LF	\$ 65	\$ 27,300
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	1100	LF	\$ 15	\$ 16,500
Landscaping / Irrigation - Planters & Restoration	1100	LF	\$ 125	\$ 137,500
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 559,050
<b>SUBTOTAL</b>				\$ 682,041
<b>CONTINGENCY</b>			30%	\$ 204,612
<b>TOTAL CONSTRUCTION COST</b>				\$ 886,653

RIGHT OF WAY COST ESTIMATE

Land - Commercial	70	SF	\$ 50	\$ 3,500
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	3	EA	\$ 2,000	\$ 6,000
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				\$ 22,000

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 177,331
Construction, Inspection (15%)				\$ 132,998
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 310,329

TOTAL CONSTRUCTION COST				\$ 886,653
TOTAL RIGHT OF WAY COST				\$ 22,000
TOTAL ENGINEERING / MANAGEMENT COST				\$ 310,329
<b>TOTAL PROJECT COSTS</b>				\$ 1,218,982

Notes: Based on UATS 6C estimate except lowered amount of concrete

Project Estimate  
 Name: Project 11 - NE 45th St Trail to Burke-Gilman Trail

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 127,093	\$ 127,093
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 105,911	\$ 105,911
Earthwork High	600	LF	\$ 115	\$ 69,000
Earthwork Medium	600	LF	\$ 90	\$ 54,000
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	1200	LF	\$ 130	\$ 156,000
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Storm Drainage - Containment	1200	LF	\$ 80	\$ 96,000
Asphalt Concrete Pavement	250	TON	\$ 65	\$ 16,250
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	1200	LF	\$ 115	\$ 138,000
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	500	LF	\$ 125	\$ 62,500
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	680	LF	\$ 30	\$ 20,400
Retailing Walls	3600	SF	\$ 120	\$ 432,000
Railing	272	LF	\$ 55	\$ 14,960
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 1,059,110
<b>SUBTOTAL</b>				\$ 1,292,114
<b>CONTINGENCY</b>			30%	\$ 387,634
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 1,679,748</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 335,950
Construction, Inspection (15%)				\$ 251,962
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 587,912</b>

TOTAL CONSTRUCTION COST				\$ 1,679,748
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 587,912
<b>TOTAL PROJECT COSTS</b>				<b>\$ 2,267,660</b>

Project Estimate  
 Name: Project 12 - Burke-Gilman Trail crossing at Brooklyn Ave

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 19,032	\$ 19,032
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 15,860	\$ 15,860
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	250	LF	\$ 90	\$ 22,500
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	75	LF	\$ 80	\$ 6,000
Asphalt Concrete Pavement	140	TON	\$ 65	\$ 9,100
Curb and Gutter	200	LF	\$ 15	\$ 3,000
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	200	LF	\$ 115	\$ 23,000
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	250	LF	\$ 30	\$ 7,500
Retailing Wall	600	SF	\$ 120	\$ 72,000
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 158,600
<b>SUBTOTAL</b>				\$ 193,492
<b>CONTINGENCY</b>			30%	\$ 58,048
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 251,540</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 50,308
Construction, Inspection (15%)				\$ 37,731
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 88,039</b>

TOTAL CONSTRUCTION COST				\$ 251,540
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 88,039
<b>TOTAL PROJECT COSTS</b>				<b>\$ 339,578</b>

Notes: 250 feet of improvements

Project Estimate

Name: Project 13 - Roosevelt Way and 11th Avenue NE Pedestrian Improvements curb bulbs at NE 55th St

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 2,388	\$ 2,388
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 1,990	\$ 1,990
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	90	LF	\$ 50	\$ 4,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	90	LF	\$ 80	\$ 7,200
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	90	LF	\$ 15	\$ 1,350
Sidewalk	70	SY	\$ 55	\$ 3,850
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 19,900
<b>SUBTOTAL</b>				\$ 24,278
<b>CONTINGENCY</b>			30%	\$ 7,283
<b>TOTAL CONSTRUCTION COST</b>				\$ 31,561

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 6,312
Construction, Inspection (15%)				\$ 4,734
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 11,046

TOTAL CONSTRUCTION COST				\$ 31,561
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 11,046
<b>TOTAL PROJECT COSTS</b>				\$ 42,608

Notes: 670 feet of improvements  
 Assume mix of low and medium grading  
 Erosion control

Project Estimate  
 Name: Project 14 - Burke Gilman Trail/NE 40th St bicycle connection

**CONSTRUCTION COST ESTIMATE**

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 24,504	\$ 24,504
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 20,420	\$ 20,420
Earthwork High	280	LF	\$ 115	\$ 32,200
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	280	LF	\$ 80	\$ 22,400
Asphalt Concrete Pavement	80	TON	\$ 65	\$ 5,200
Curb and Gutter	560	LF	\$ 15	\$ 8,400
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	560	LF	\$ 65	\$ 36,400
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	560	LF	\$ 15	\$ 8,400
Landscaping / Irrigation - Planters & Restoration	560	LF	\$ 125	\$ 70,000
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	280	LF	\$ 30	\$ 8,400
Fence	280	LF	\$ 35	\$ 9,800
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 204,200
<b>SUBTOTAL</b>				\$ 249,124
<b>CONTINGENCY</b>			30%	\$ 74,737
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>323,861</b>

**RIGHT OF WAY COST ESTIMATE**

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

**ENGINEERING / MANAGEMENT COST ESTIMATE**

Preliminary, Design, Survey (20%)				\$ 64,772
Construction, Inspection (15%)				\$ 48,579
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>113,351</b>

TOTAL CONSTRUCTION COST				\$ 323,861
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 113,351
<b>TOTAL PROJECT COSTS</b>				\$ <b>437,213</b>

Notes:

Corridor length 6900 and 7000 feet  
 removals for curb bulbs to create turn lane

Project Estimate  
 Name: Project 15 -Montelake Blvd NE HOV Lane

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 554,160	\$ 554,160
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 461,800	\$ 461,800
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	2600	LF	\$ 90	\$ 234,000
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	1000	LF	\$ 50	\$ 50,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	2600	LF	\$ 80	\$ 208,000
Storm Drainage - Containment	2600	LF	\$ 80	\$ 208,000
Asphalt Concrete Pavement	3000	TON	\$ 65	\$ 195,000
Curb and Gutter	2600	LF	\$ 15	\$ 39,000
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	2600	LF	\$ 65	\$ 169,000
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	2600	LF	\$ 15	\$ 39,000
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Landscaping /Restoration	2600	LF	\$ 30	\$ 78,000
Temporary Erosion Control	2600	LF	\$ 30	\$ 78,000
Retailing Walls	11000	SF	\$ 120	\$ 1,320,000
Pedestrian Bridges	2	EA	\$ 1,000,000	\$ 2,000,000
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				<b>\$ 4,618,000</b>
<b>SUBTOTAL</b>				<b>\$ 5,633,960</b>
<b>CONTINGENCY</b>			30%	<b>\$ 1,690,188</b>
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 7,324,148</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	31200	SF	\$ 50	\$ 1,560,000
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	1	EA	\$ 2,000	\$ 2,000
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 1,574,500</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 1,464,830
Construction, Inspection (15%)				\$ 1,098,622
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 2,563,452</b>

TOTAL CONSTRUCTION COST				\$ 7,324,148
TOTAL RIGHT OF WAY COST				\$ 1,574,500
TOTAL ENGINEERING / MANAGEMENT COST				\$ 2,563,452
<b>TOTAL PROJECT COSTS</b>				<b>\$ 11,462,100</b>

Note: 2600' project area. Based on UATS 2F estimate quantities

Project Estimate

Name: Project 16 - Burke Gilman Trail crossing at University Way/Pacific Street

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 2,478	\$ 2,478
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 2,065	\$ 2,065
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	60	LF	\$ 90	\$ 5,400
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	60	LF	\$ 50	\$ 3,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	40	TON	\$ 65	\$ 2,600
Curb and Gutter	60	LF	\$ 15	\$ 900
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	50	LF	\$ 115	\$ 5,750
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 20,650
<b>SUBTOTAL</b>				\$ 25,193
<b>CONTINGENCY</b>			30%	\$ 7,558
<b>TOTAL CONSTRUCTION COST</b>				\$ 32,751

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 6,550
Construction, Inspection (15%)				\$ 4,913
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 11,463

TOTAL CONSTRUCTION COST				\$ 32,751
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 11,463
<b>TOTAL PROJECT COSTS</b>				\$ 44,214

Notes:1400' project area

Project Estimate

Name: Project 17 - 8th Avenue NE between NE 64th and NE 65th Streets curb bulbs

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 8,649	\$ 8,649
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 7,208	\$ 7,208
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	375	LF	\$ 65	\$ 24,375
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	375	LF	\$ 50	\$ 18,750
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	375	LF	\$ 15	\$ 5,625
Sidewalk	315	SY	\$ 55	\$ 17,325
Curb Ramps	4	EA	\$ 1,500	\$ 6,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 72,075
<b>SUBTOTAL</b>				\$ 87,932
<b>CONTINGENCY</b>			30%	\$ 26,379
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 114,311</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 22,862
Construction, Inspection (15%)				\$ 17,147
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 40,009</b>

TOTAL CONSTRUCTION COST				\$ 114,311
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 40,009
<b>TOTAL PROJECT COSTS</b>				<b>\$ 154,320</b>

Notes: restriping, bicycle signal main costs (0.5 new signal), push button (1 signal mod)

Project Estimate  
 Name: Project 18 - NE Pacific Street HOV Lane

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 244,350	\$ 244,350
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 203,625	\$ 203,625
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	950	LF	\$ 90	\$ 85,500
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	950	LF	\$ 50	\$ 47,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	950	LF	\$ 80	\$ 76,000
Storm Drainage - Containment	950	LF	\$ 80	\$ 76,000
Asphalt Concrete Pavement	1100	TON	\$ 65	\$ 71,500
Curb and Gutter	950	LF	\$ 15	\$ 14,250
Sidewalk	950	SY	\$ 55	\$ 52,250
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	950	LF	\$ 65	\$ 61,750
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	950	LF	\$ 15	\$ 14,250
Landscaping / Irrigation - Planters & Restoration	950	LF	\$ 125	\$ 118,750
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	950	LF	\$ 30	\$ 28,500
Retailing Walls	2600	SF	\$ 120	\$ 312,000
Pedestrian Bridges	1	EA	\$ 1,000,000	\$ 1,000,000
Urban Design Features	0	LS	\$ 10,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 2,036,250
<b>SUBTOTAL</b>				\$ 2,484,225
<b>CONTINGENCY</b>			30%	\$ 745,268
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 3,229,493</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	11400	SF	\$ 50	\$ 570,000
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	1	EA	\$ 2,000	\$ 2,000
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 584,500</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 645,899
Construction, Inspection (15%)				\$ 484,424
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 1,130,322</b>

TOTAL CONSTRUCTION COST				\$ 3,229,493
TOTAL RIGHT OF WAY COST				\$ 584,500
TOTAL ENGINEERING / MANAGEMENT COST				\$ 1,130,322
<b>TOTAL PROJECT COSTS</b>				<b>\$ 4,944,315</b>

Notes: corridor 950 ft. Used modified estimate from UATS.

Project Estimate  
 Name: Project 19 - Weedon Place/NE 65th Street; Pedestrian

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 9,972	\$ 9,972
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 8,310	\$ 8,310
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	250	LF	\$ 50	\$ 12,500
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	250	LF	\$ 80	\$ 20,000
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	150	LF	\$ 15	\$ 2,250
Sidewalk	120	SY	\$ 55	\$ 6,600
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	250	LF	\$ 115	\$ 28,750
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	1	LS	\$ 10,000	\$ 10,000
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 83,100
<b>SUBTOTAL</b>				\$ 101,382
<b>CONTINGENCY</b>			30%	\$ 30,415
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>131,797</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 26,359
Construction, Inspection (15%)				\$ 19,769
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>46,129</b>

TOTAL CONSTRUCTION COST				\$ 131,797
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 46,129
<b>TOTAL PROJECT COSTS</b>				\$ <b>177,925</b>

Notes: corridor 2200 feet

Project Estimate

Name: Project 20 -NE 50th Street/15th Avenue NE left turn pockets (EB/WB)

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 9,630	\$ 9,630
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 8,025	\$ 8,025
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	350	LF	\$ 15	\$ 5,250
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 80,250
<b>SUBTOTAL</b>				\$ 97,905
<b>CONTINGENCY</b>			30%	\$ 29,372
<b>TOTAL CONSTRUCTION COST</b>				\$ 127,277

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 25,455
Construction, Inspection (15%)				\$ 19,091
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ 44,547

TOTAL CONSTRUCTION COST				\$ 127,277
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 44,547
<b>TOTAL PROJECT COSTS</b>				\$ 171,823

Notes: EB/WB working within existing ROW no widening

Project Estimate  
 Name: Project 21 - Burke-Gilman Trail connection at 36th Avenue NE

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 2,574	\$ 2,574
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 2,145	\$ 2,145
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	240	SY	\$ 55	\$ 13,200
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	550	LF	\$ 15	\$ 8,250
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 21,450
<b>SUBTOTAL</b>				\$ 26,169
<b>CONTINGENCY</b>			30%	\$ 7,851
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 34,020</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	480	SF	\$ 50	\$ 24,000
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 36,500</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 6,804
Construction, Inspection (15%)				\$ 5,103
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 11,907</b>

TOTAL CONSTRUCTION COST				\$ 34,020
TOTAL RIGHT OF WAY COST				\$ 36,500
TOTAL ENGINEERING / MANAGEMENT COST				\$ 11,907
<b>TOTAL PROJECT COSTS</b>				<b>\$ 82,427</b>

Notes: Improvement of NE 44th St connection from University housing and build connection to B-G trail off of NE 45th

Project Estimate

Name: Project 22 - Burke-Gilman Trail and University Village at 25th Ave /NE 47th St connection

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 37,809	\$ 37,809
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 31,508	\$ 31,508
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	220	LF	\$ 90	\$ 19,800
Earthwork Low	270	LF	\$ 65	\$ 17,550
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	490	LF	\$ 80	\$ 39,200
Asphalt Concrete Pavement	200	TON	\$ 65	\$ 13,000
Curb and Gutter	410	LF	\$ 15	\$ 6,150
Sidewalk	325	SY	\$ 55	\$ 17,875
Curb Ramps	4	EA	\$ 1,500	\$ 6,000
Lighting (cobra head)	270	LF	\$ 65	\$ 17,550
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	270	LF	\$ 15	\$ 4,050
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	490	LF	\$ 30	\$ 14,700
Retailing Walls	1280	SF	\$ 120	\$ 153,600
Fence	160	LF	\$ 35	\$ 5,600
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 315,075
<b>SUBTOTAL</b>				\$ 384,392
<b>CONTINGENCY</b>			30%	\$ 115,317
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 499,709</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	4150	SF	\$ 50	\$ 207,500
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 220,000</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 99,942
Construction, Inspection (15%)				\$ 74,956
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 174,898</b>

TOTAL CONSTRUCTION COST				\$ 499,709
TOTAL RIGHT OF WAY COST				\$ 220,000
TOTAL ENGINEERING / MANAGEMENT COST				\$ 174,898
<b>TOTAL PROJECT COSTS</b>				<b>\$ 894,607</b>

Notes: Used 6A from UATS

Project Estimate  
 Name: Project 23 - 7th Avenue NE/NE 40th Street roundabout

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 62,532	\$ 62,532
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 52,110	\$ 52,110
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	400	LF	\$ 65	\$ 26,000
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	800	LF	\$ 50	\$ 40,000
Storm Drainage - New	600	LF	\$ 130	\$ 78,000
Storm Drainage - Modify	800	LF	\$ 80	\$ 64,000
Storm Drainage - Containment	1400	LF	\$ 80	\$ 112,000
Asphalt Concrete Pavement	1200	TON	\$ 65	\$ 78,000
Curb and Gutter	1600	LF	\$ 15	\$ 24,000
Sidewalk	120	SY	\$ 55	\$ 6,600
Curb Ramps	18	EA	\$ 1,500	\$ 27,000
Lighting (cobra head)	300	LF	\$ 65	\$ 19,500
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	600	LF	\$ 15	\$ 9,000
Landscaping / Irrigation - Planters & Restoration	200	LF	\$ 125	\$ 25,000
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	400	LF	\$ 30	\$ 12,000
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 521,100
<b>SUBTOTAL</b>				\$ 635,742
<b>CONTINGENCY</b>			30%	\$ 190,723
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 826,465</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	112.5	SF	\$ 35	\$ 3,938
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 16,438</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 165,293
Construction, Inspection (15%)				\$ 123,970
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 289,263</b>

TOTAL CONSTRUCTION COST				\$ 826,465
TOTAL RIGHT OF WAY COST				\$ 16,438
TOTAL ENGINEERING / MANAGEMENT COST				\$ 289,263
<b>TOTAL PROJECT COSTS</b>				<b>\$ 1,132,165</b>

Project Estimate

Name: Project 24 - 11th Avenue NE/Eastlake Avenue/NE 41st Street pedestrian signal

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 13,590	\$ 13,590
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 11,325	\$ 11,325
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0.5	EA	\$ 225,000	\$ 112,500
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	50	LF	\$ 15	\$ 750
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 113,250
<b>SUBTOTAL</b>				\$ 138,165
<b>CONTINGENCY</b>			30%	\$ 41,450
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 179,615</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 35,923
Construction, Inspection (15%)				\$ 26,942
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 62,865</b>

TOTAL CONSTRUCTION COST				\$ 179,615
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 62,865
<b>TOTAL PROJECT COSTS</b>				<b>\$ 242,480</b>

Notes: EB/WB working within existing ROW no widening

Project Estimate

Name: Project 25 - Ravenna Ave NE Corridor from NE 55th Street to NE Ravenna Blvd: Off-street bike facility

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 23,724	\$ 23,724
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 19,770	\$ 19,770
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	600	LF	\$ 65	\$ 39,000
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	600	LF	\$ 130	\$ 78,000
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	180	TON	\$ 65	\$ 11,700
Curb and Gutter	0	LF	\$ 15	\$ -
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	600	LF	\$ 115	\$ 69,000
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 197,700
<b>SUBTOTAL</b>				\$ 241,194
<b>CONTINGENCY</b>			30%	\$ 72,358
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 313,552</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 62,710
Construction, Inspection (15%)				\$ 47,033
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 109,743</b>

TOTAL CONSTRUCTION COST				\$ 313,552
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 109,743
<b>TOTAL PROJECT COSTS</b>				<b>\$ 423,295</b>

Notes: Assumes repaving of existing trail or creation of new trail for ~600 lf

Project Estimate

Name: Project 26 - Montlake Boulevard/Hamlin Street - Extend U-turn lane

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 4,059	\$ 4,059
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 3,383	\$ 3,383
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	175	LF	\$ 65	\$ 11,375
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	175	LF	\$ 50	\$ 8,750
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	0	LF	\$ 80	\$ -
Asphalt Concrete Pavement	50	TON	\$ 65	\$ 3,250
Curb and Gutter	175	LF	\$ 15	\$ 2,625
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	0	EA	\$ 1,500	\$ -
Lighting (cobra head)	80	LF	\$ 65	\$ 5,200
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	175	LF	\$ 15	\$ 2,625
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 33,825
<b>SUBTOTAL</b>				\$ 41,267
<b>CONTINGENCY</b>			30%	\$ 12,380
<b>TOTAL CONSTRUCTION COST</b>				\$ <b>53,646</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				\$ -

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 10,729
Construction, Inspection (15%)				\$ 8,047
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				\$ <b>18,776</b>

TOTAL CONSTRUCTION COST				\$ 53,646
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 18,776
<b>TOTAL PROJECT COSTS</b>				\$ <b>72,423</b>

Project Estimate  
 Name: Project 27 -25th Avenue NE/NE 55th Street NB/SB left turn pockets

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 34,668	\$ 34,668
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 28,890	\$ 28,890
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	140	LF	\$ 65	\$ 9,100
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	220	LF	\$ 50	\$ 11,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	360	LF	\$ 80	\$ 28,800
Storm Drainage - Containment	360	LF	\$ 80	\$ 28,800
Asphalt Concrete Pavement	120	TON	\$ 65	\$ 7,800
Curb and Gutter	360	LF	\$ 15	\$ 5,400
Sidewalk	240	SY	\$ 55	\$ 13,200
Curb Ramps	4	EA	\$ 1,500	\$ 6,000
Lighting (cobra head)	360	LF	\$ 65	\$ 23,400
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	2	EA	\$ 75,000	\$ 150,000
Signing and Striping	360	LF	\$ 15	\$ 5,400
Landscaping / Irrigation - Planters & Restoration	0	LF	\$ 125	\$ -
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Fence	0	LF	\$ 35	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 288,900
<b>SUBTOTAL</b>				\$ 352,458
<b>CONTINGENCY</b>			30%	\$ 105,737
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 458,195</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	4320	SF	\$ 50	\$ 216,000
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	1	EA	\$ 2,000	\$ 2,000
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 230,500</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 91,639
Construction, Inspection (15%)				\$ 68,729
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 160,368</b>

TOTAL CONSTRUCTION COST				\$ 458,195
TOTAL RIGHT OF WAY COST				\$ 230,500
TOTAL ENGINEERING / MANAGEMENT COST				\$ 160,368
<b>TOTAL PROJECT COSTS</b>				<b>\$ 849,064</b>

Notes: Need 12 ft from west side of roadway. This project is difficult.

Project Estimate  
 Name: Project 28 - NE 45th Corridor from 15th Ave to 20th Ave

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 73,998	\$ 73,998
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 61,665	\$ 61,665
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	1320	LF	\$ 50	\$ 66,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	1320	LF	\$ 80	\$ 105,600
Storm Drainage - Containment	1320	LF	\$ 80	\$ 105,600
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	1320	LF	\$ 15	\$ 19,800
Sidewalk	1170	SY	\$ 55	\$ 64,350
Curb Ramps	3	EA	\$ 1,500	\$ 4,500
Lighting (cobra head)	1320	LF	\$ 65	\$ 85,800
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	0	LF	\$ 15	\$ -
Landscaping / Irrigation - Planters & Restoration	1320	LF	\$ 125	\$ 165,000
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 616,650
<b>SUBTOTAL</b>				\$ 752,313
<b>CONTINGENCY</b>			30%	\$ 225,694
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 978,007</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	1320	SF	\$ 50	\$ 66,000
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	1	EA	\$ 2,000	\$ 2,000
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	1	LS	\$ 2,000	\$ 2,000
ROW Administration	1	LS	\$ 10,500	\$ 10,500
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ 80,500</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 195,601
Construction, Inspection (15%)				\$ 146,701
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 342,302</b>

TOTAL CONSTRUCTION COST				\$ 978,007
TOTAL RIGHT OF WAY COST				\$ 80,500
TOTAL ENGINEERING / MANAGEMENT COST				\$ 342,302
<b>TOTAL PROJECT COSTS</b>				<b>\$ 1,400,809</b>

Notes: 12 foot sidewalk with landscaping

Project Estimate  
 Name: Project 29 - Northlake Way reconstruction

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 56,598	\$ 56,598
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 47,165	\$ 47,165
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	1020	LF	\$ 50	\$ 51,000
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	1020	LF	\$ 80	\$ 81,600
Asphalt Concrete Pavement	350	TON	\$ 65	\$ 22,750
Curb and Gutter	1820	LF	\$ 15	\$ 27,300
Sidewalk	1300	SY	\$ 55	\$ 71,500
Curb Ramps	8	EA	\$ 1,500	\$ 12,000
Lighting (cobra head)	1020	LF	\$ 65	\$ 66,300
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	780	LF	\$ 15	\$ 11,700
Landscaping / Irrigation - Planters & Restoration	1020	LF	\$ 125	\$ 127,500
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 471,650
<b>SUBTOTAL</b>				\$ 575,413
<b>CONTINGENCY</b>			30%	\$ 172,624
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 748,037</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 149,607
Construction, Inspection (15%)				\$ 112,206
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 261,813</b>

TOTAL CONSTRUCTION COST				\$ 748,037
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 261,813
<b>TOTAL PROJECT COSTS</b>				<b>\$ 1,009,850</b>

Notes:

Project Estimate  
 Name: Project 30 - Montlake Boulevard NE and NE Shelby Street

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 44,007	\$ 44,007
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 36,673	\$ 36,673
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	705	LF	\$ 80	\$ 56,400
Storm Drainage - Containment	705	LF	\$ 80	\$ 56,400
Asphalt Concrete Pavement	0	TON	\$ 65	\$ -
Curb and Gutter	705	LF	\$ 15	\$ 10,575
Sidewalk	630	SY	\$ 55	\$ 34,650
Curb Ramps	6	EA	\$ 1,500	\$ 9,000
Lighting (cobra head)	400	LF	\$ 65	\$ 26,000
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	1	EA	\$ 75,000	\$ 75,000
Signing and Striping	705	LF	\$ 15	\$ 10,575
Landscaping / Irrigation - Planters & Restoration	705	LF	\$ 125	\$ 88,125
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Fence	0	LF	\$ 35	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features		LS	\$ -	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 366,725
<b>SUBTOTAL</b>				\$ 447,405
<b>CONTINGENCY</b>			30%	\$ 134,221
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 581,626</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 116,325
Construction, Inspection (15%)				\$ 87,244
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 203,569</b>

TOTAL CONSTRUCTION COST				\$ 581,626
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 203,569
<b>TOTAL PROJECT COSTS</b>				<b>\$ 785,195</b>

Notes: EB/WB working within existing ROW no widening

Project Estimate

Name: Project 31 - NE 50th Street traffic calming from 30th Ave NE to 35th Ave NE

CONSTRUCTION COST ESTIMATE

Description	Quantity	Unit	Unit Cost	Total
Mobilization (12% of Const. Subtotal)	1	LS	\$ 21,858	\$ 21,858
Traffic Control (10% of Const. Subtotal)	1	LS	\$ 18,215	\$ 18,215
Earthwork High	0	LF	\$ 115	\$ -
Earthwork Medium	0	LF	\$ 90	\$ -
Earthwork Low	0	LF	\$ 65	\$ -
Utility Undergrounding	0	LF	\$ 200	\$ -
Removals	0	LF	\$ 50	\$ -
Storm Drainage - New	0	LF	\$ 130	\$ -
Storm Drainage - Modify	1290	LF	\$ 80	\$ 103,200
Asphalt Concrete Pavement	150	TON	\$ 65	\$ 9,750
Curb and Gutter	1290	LF	\$ 15	\$ 19,350
Sidewalk	0	SY	\$ 55	\$ -
Curb Ramps	2	EA	\$ 1,500	\$ 3,000
Lighting (cobra head)	0	LF	\$ 65	\$ -
Lighting (decorative)	0	LF	\$ 115	\$ -
Interconnect	0	LF	\$ 20	\$ -
New Signal	0	EA	\$ 225,000	\$ -
Modify Signal	0	EA	\$ 75,000	\$ -
Signing and Striping	1290	LF	\$ 15	\$ 19,350
Landscaping / Irrigation - Planters & Restoration	220	LF	\$ 125	\$ 27,500
Miscellaneous Utilities	0	LF	\$ 30	\$ -
Temporary Erosion Control	0	LF	\$ 30	\$ -
Retailing Walls	0	SF	\$ 120	\$ -
Railing	0	LF	\$ 55	\$ -
Urban Design Features	0	LS	\$ 50,000	\$ -
<b>SUBTOTAL (w/o mobilization and traffic control)</b>				\$ 182,150
<b>SUBTOTAL</b>				\$ 222,223
<b>CONTINGENCY</b>			30%	\$ 66,667
<b>TOTAL CONSTRUCTION COST</b>				<b>\$ 288,890</b>

RIGHT OF WAY COST ESTIMATE

Land - Commercial	0	SF	\$ 50	\$ -
Land - Residential	0	SF	\$ 35	\$ -
Temporary Easement	0	EA	\$ 2,000	\$ -
Building(s)	0	LS	\$ -	\$ -
Parking / Damages	0	EA	\$ -	\$ -
Settlement Costs	0	LS	\$ 2,000	\$ -
ROW Administration	0	LS	\$ 10,500	\$ -
<b>TOTAL RIGHT OF WAY COST</b>				<b>\$ -</b>

ENGINEERING / MANAGEMENT COST ESTIMATE

Preliminary, Design, Survey (20%)				\$ 57,778
Construction, Inspection (15%)				\$ 43,333
<b>TOTAL ENGINEERING / MANAGEMENT COST</b>				<b>\$ 101,111</b>

TOTAL CONSTRUCTION COST				\$ 288,890
TOTAL RIGHT OF WAY COST				\$ -
TOTAL ENGINEERING / MANAGEMENT COST				\$ 101,111
<b>TOTAL PROJECT COSTS</b>				<b>\$ 390,001</b>

Notes: Assumes repaving of existing trail or creation of new trail for ~600 lf



**Option 1:A)** Two VMS signs linked to a detection system to measure congestion along SB Montlake Blvd. 4 CCTV cameras installed, two as surveillance only, and two as surveillance/ CCTV sign verificaton. (B) same as (A) except using wireless communication.

**A**

Description	Quantity	Cost (ea.)	Total
VMS sign, cabinet, software	2	\$ 98,000.00	\$ 196,000.00
CCTV cameras, cabinets, poles	4	\$ 35,000.00	\$ 140,000.00
Detection zones using loops	5	\$ 2,200.00	\$ 11,000.00
Detection zone cabinets	2	\$ 5,000.00	\$ 10,000.00
System Communication			
fiber: on 25th Ave. N.E.	1	\$ 32,000.00	\$ 32,000.00
on Montlake Blvd. N.E.	1	\$ 74,000.00	\$ 74,000.00
on N.E. 45th St.	1	\$ 14,000.00	\$ 14,000.00
wireless from viaduct	1	\$ 8,000.00	\$ 8,000.00
Electronics	1	\$ 15,000.00	\$ 15,000.00
Power	1	\$ 10,000.00	\$ 10,000.00
Integration Software	1	\$ 50,000.00	\$ 50,000.00
		<b>subtotal:</b>	\$ 560,000.00
PS&E	1	1.34X	\$ 750,400.00
		<b>Total:</b>	<b>\$ 1,310,400.00</b>

**B**

Description	Quantity	Cost (ea.)	Total
VMS sign, cabinet, software	2	\$98,000.00	\$ 196,000.00
CCTV cameras, cabinets, poles	4	\$35,000.00	\$ 140,000.00
Detection zones using loops	5	\$ 2,200.00	\$ 11,000.00
Detection zone cabinets	2	\$ 5,000.00	\$ 10,000.00
System Communication			
Wireless Detector system	1	\$25,000.00	\$ 25,000.00
Wireless Video System	1	\$30,000.00	\$ 30,000.00
wireless from viaduct	1	\$ 8,000.00	\$ 8,000.00
Electronics	1	\$15,000.00	\$ 15,000.00
Power	1	\$10,000.00	\$ 10,000.00
Integration Software	1	\$50,000.00	\$ 50,000.00
			\$ 495,000.00
PS&E	1	1.34X	\$ 663,300.00
		<b>Total:</b>	<b>\$1,158,300.00</b>

**Option #2:** Two VMS signs only, with fiber connection to UW backbone.

Description	Quantity	Cost (ea.)	Total
VMS sign, cabinet, software	2	\$ 98,000.00	\$ 196,000.00
CCTV cameras, cabinets, poles	4	\$ 35,000.00	\$ 140,000.00
System Communication			
on Montlake Blvd. N.E.	1	\$ 74,000.00	\$ 74,000.00
Power	1	\$ 10,000.00	\$ 10,000.00
Integration Software	1	\$ 50,000.00	\$ 50,000.00
		subtotal	\$ 470,000.00
PS&E	1	1.34X	\$ 629,800.00
		<b>Total:</b>	<b>\$ 1,099,800.00</b>

**Option #3:** Two Fixed Signs with Flashers, activated by bridge operator.

Description	Quantity	Cost (ea.)	Total
Fixed message sign w/ flashers	2	\$10,000.00	\$ 20,000.00
Communication system	1	\$10,000.00	\$ 10,000.00
		subtotal	\$ 30,000.00
PS&E	1	1.34X	\$ 40,200.00
		<b>Total:</b>	<b>\$ 70,200.00</b>