City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: 05/01/2019							
eviewed By: Jamestaun Kraupp, PE									
	This Estimate has a Rating of:	3C	(See rating scale guide b						
		TOTAL	30%	ENGINEERING &					
ITEM		CONSTRUCTION	CONTINGENCY	CONSTRUCTION	TOTAL ESTIMATED PROJECT COST				
		COST	CONTINGENCY	MANAGEMENT					
Intersection									
Plymouth St. & 6 th St.		\$139,060	\$41,720	\$34,770	\$215,55				
Old Portland Rd. & Plymouth St.		\$1,206,820	\$362,050	\$301,710	\$1,870,58				
Old Portland Rd. & Kaster Rd.		\$1,350,280	\$405,090	\$337,570	\$2,092,94				
Old Portland Rd. & Port Ave.		\$558,490	\$167,550	\$139,630	\$865,67				
Old Portland Rd. & Gable Rd.		\$604,740	\$181,430	\$151,190	\$937,36				
Gable Rd. & McNulty Way		\$310,048	\$93,020	\$77,520	\$480,58				
Gable Rd. & US 30		\$1,706,030	\$511,810	\$426,510	\$2,644,35				
Segment									
Segment 1: South 1st Street		\$1,867,260	\$560,180	\$466,820	\$2,894,26				
Segment 2.1: Veneer Property		\$2,240,300	\$672,090	\$560,080	\$3,472,47				
Segment 2.2: Plymouth Street		\$907,320	\$272,200	\$226,830	\$1,406,35				
Segment 3: Plymouth Street		\$2,286,620	\$685,990	\$571,660	\$3,544,27				
Segment 4.1: Old Portland Road		\$4,874,500	\$1,462,350	\$1,218,630	\$7,555,48				
Segment 4.2: Gable Road		\$3,642,480	\$1,092,750	\$910,620	\$5,645,85				
Segment 5: Old Portland Road		\$5,726,160	\$1,717,850	\$1,431,540	\$8,875,55				
Segment 5: McNulty Way		\$4,518,640	\$1,355,600	\$1,129,660	\$7,003,90				
Segment 5: Millard Road		\$1,968,180	\$590,460	\$492,050	\$3,050,69				

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions;

limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Plymouth Street & South 6th Street

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This E.	stimate has a Rating of:	3C	(See rating scale gu	ıide be	low.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$12,000		\$12,000
Traffic Control	LS	ALL	\$7,000		\$7,000
Erosion Control	LS	ALL	\$2,000		\$2,000
Removal of Structures and Obstructions	LS	ALL	\$3,000		\$3,000
Clearing and Grubbing	LS	ALL	\$3,000		\$3,000
General Earthworks	CY	400	\$25		\$10,000
Asphalt Roadway - Full Depth	SF	4,300	\$7		\$29,240
Subgrade Geotextile	SY	480	\$1		\$480
Concrete Curbs - Standard Curb & Gutter	LF	300	\$32		\$9,660
Concrete Walks	SF	1,200	\$7		\$8,640
Detectable Warnings	EA	2	\$500		\$1,000
Pedestrian Ramps	EA	2	\$5,000		\$10,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$25,000		\$25,000
Permanent Landscaping	SF	700	\$4		\$2,590
Irrigation, Complete	SF	700	\$3		\$1,750
Pavement Markings, Complete	LS	ALL	\$2,000		\$2,000
Signage, Complete	LS	ALL	\$2,000		\$2,000
Illumination System, Complete	LS	ALL	\$9,700		\$9,700
	T	OTAL CONSTR	UCTION COST	\$	139,060
30% Contingency				\$	41,720
TOTAL ESTIMATED PROJECT COST				\$	180,780

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Old Portland Road & Plymouth Street

City of St. Helens



Prepared By: Dimitryan Shadrin		Date: May 3, 2019		
Reviewed By: Jamestaun Kraupp, PE				
This Estimate has	a Rating of:	3C	(See rating scale gu	iide below.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$96,000	\$96,000
Traffic Control	LS	ALL	\$145,000	\$145,000
Erosion Control	LS	ALL	\$11,000	\$11,000
Removal of Structures and Obstructions	LS	ALL	\$21,000	\$21,000
Clearing and Grubbing	LS	ALL	\$19,000	\$19,000
General Earthworks	CY	2,800	\$25	\$70,000
Asphalt Roadway - Full Depth	SF	31,000	\$7	\$210,800
Subgrade Geotextile	SY	3,500	\$1	\$3,500
Concrete Curbs - Standard Curb	LF	350	\$29	\$10,010
Concrete Curbs - Standard Curb & Gutter	LF	1,650	\$32	\$53,130
Raised Concrete Island	SF	2,000	\$11	\$21,400
Truck Apron (Concrete)	SF	2,150	\$16	\$35,260
Concrete Walks	SF	11,300	\$7	\$81,360
Detectable Warnings	EA	16	\$500	\$8,000
Pedestrian Ramps	EA	16	\$5,000	\$80,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$201,000	\$201,000
Permanent Landscaping	SF	6,300	\$4	\$23,310
Irrigation, Complete	SF	6,300	\$3	\$15,750
Pavement Markings, Complete	LS	ALL	\$12,000	\$12,000
Signage, Complete	LS	ALL	\$9,000	\$9,000
Illumination System, Complete	LS	ALL	\$80,300	\$80,300
	T	OTAL CONSTR	UCTION COST	\$ 1,206,820
30% Contingency				\$ 362,050
TOTAL ESTIMATED PROJECT COST				\$ 1,568,870

Scope Accuracy:

Level 1: Project scope well understood and well defined.

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Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Old Portland Road & Kaster Road

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estimate has	a Rating of:		(See rating scale guide below.)		
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$107,000		\$107,000
Traffic Control	LS	ALL	\$163,000		\$163,000
Erosion Control	LS	ALL	\$11,000		\$11,000
Removal of Structures and Obstructions	LS	ALL	\$24,000		\$24,000
Clearing and Grubbing	LS	ALL	\$21,000		\$21,000
General Earthworks	CY	2,800	\$25		\$70,000
Asphalt Roadway - Full Depth	SF	28,500	\$7		\$193,800
Subgrade Geotextile	SY	3,200	\$1		\$3,200
Concrete Curbs - Standard Curb	LF	800	\$29		\$22,880
Concrete Curbs - Standard Curb & Gutter	LF	1,900	\$32		\$61,180
Raised Concrete Island	SF	5,400	\$11		\$57,780
Truck Apron (Concrete)	SF	3,100	\$16		\$50,840
Concrete Walks	SF	12,800	\$7		\$92,160
Detectable Warnings	EA	16	\$500		\$8,000
Pedestrian Ramps	EA	16	\$5,000		\$80,000
Bike Ramps	EA	5	\$2,500		\$12,500
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$224,000		\$224,000
Permanent Landscaping	SF	5,700	\$4		\$21,090
Irrigation, Complete	SF	5,700	\$3		\$14,250
Pavement Markings, Complete	LS	ALL	\$13,000		\$13,000
Signage, Complete	LS	ALL	\$10,000		\$10,000
Illumination System, Complete	LS	ALL	\$89,600		\$89,600
	Т	OTAL CONSTR	RUCTION COST	\$	1,350,280
30% Contingency				\$	405,090
TOTAL ESTIMATED PROJECT COST				\$	1,755,370

Scope Accuracy:

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Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Old Portland Road & Port Avenue

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin	Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE				
This Estimate has	a Rating of:	3C (See rating scale guide below.)		
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$48,000	\$48,000
Traffic Control	LS	ALL	\$25,000	\$25,000
Erosion Control	LS	ALL	\$6,000	\$6,000
Removal of Structures and Obstructions	LS	ALL	\$11,000	\$11,000
Clearing and Grubbing	LS	ALL	\$10,000	\$10,000
General Earthworks	CY	1,500	\$25	\$37,500
Asphalt Roadway - Full Depth	SF	17,650	\$7	\$120,020
Subgrade Geotextile	SY	2,000	\$1	\$2,000
Concrete Curbs - Standard Curb	LF	270	\$29	\$7,722
Concrete Curbs - Standard Curb & Gutter	LF	900	\$32	\$28,980
Raised Concrete Island	SF	640	\$11	\$6,848
Concrete Walks	SF	5,700	\$7	\$41,040
Detectable Warnings	EA	8	\$500	\$4,000
Pedestrian Ramps	EA	8	\$5,000	\$40,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$101,000	\$101,000
Permanent Landscaping	SF	2,900	\$4	\$10,730
Irrigation, Complete	SF	2,900	\$3	\$7,250
Pavement Markings, Complete	LS	ALL	\$6,000	\$6,000
Signage, Complete	LS	ALL	\$5,000	\$5,000
Illumination System, Complete	LS	ALL	\$40,400	\$40,400
	T	OTAL CONSTR	UCTION COST	\$ 558,490
		30	0% Contingency	\$ 167,550
TOTAL ESTIMATED PROJECT COST				\$ 726,040

Scope Accuracy:

Level 1: Project scope well understood and well defined.

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Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Old Portland Road & Gable Road

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estimate	e has a Rating of:	3C	(See rating scale guide below.)		
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	T	OTAL COST
Mobilization	LS	ALL	\$52,000		\$52,000
Traffic Control	LS	ALL	\$27,000		\$27,000
Erosion Control	LS	ALL	\$6,000		\$6,000
Removal of Structures and Obstructions	LS	ALL	\$12,000		\$12,000
Clearing and Grubbing	LS	ALL	\$10,000		\$10,000
General Earthworks	CY	1,500	\$25		\$37,500
Asphalt Roadway - Full Depth	SF	16,100	\$7		\$109,480
Subgrade Geotextile	SY	1,800	\$1		\$1,800
Concrete Curbs - Standard Curb	LF	500	\$29		\$14,300
Concrete Curbs - Standard Curb & Gutter	LF	850	\$32		\$27,370
Raised Concrete Island	SF	1,100	\$11		\$11,770
Concrete Walks	SF	7,300	\$7		\$52,560
Detectable Warnings	EA	10	\$500		\$5,000
Pedestrian Ramps	EA	10	\$5,000		\$50,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$109,000		\$109,000
Permanent Landscaping	SF	3,800	\$4		\$14,060
Irrigation, Complete	SF	3,800	\$3		\$9,500
Pavement Markings, Complete	LS	ALL	\$7,000		\$7,000
Signage, Complete	LS	ALL	\$5,000		\$5,000
Illumination System, Complete	LS	ALL	\$43,400		\$43,400
	T	OTAL CONSTR	UCTION COST	\$	604,740
		3	0% Contingency	\$	181,430
TOTAL ESTIMATED PROJECT COST				\$	786,170

Scope Accuracy:

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Engineering Effort:

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Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Gable Road & McNulty Way

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estimate has	a Rating of:	3C	(See rating scale guide below.)		ow.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$25,000		\$25,000
Traffic Control	LS	ALL	\$38,000		\$38,000
Erosion Control	LS	ALL	\$3,000		\$3,000
Removal of Structures and Obstructions	LS	ALL	\$6,000		\$6,000
Clearing and Grubbing	LS	ALL	\$5,000		\$5,000
General Earthworks	CY	800	\$25		\$20,000
Asphalt Roadway - Full Depth	SF	8,960	\$7		\$60,928
Asphalt Cycle Track	SF	1,500	\$3		\$4,650
Subgrade Geotextile	SY	1,200	\$1		\$1,200
Concrete Curbs - Standard Curb	LF	500	\$29		\$14,300
Concrete Curbs - Standard Curb & Gutter	LF	400	\$32		\$12,880
Raised Concrete Island	SF	1,100	\$11		\$11,770
Concrete Walks	SF	1,500	\$7		\$10,800
Detectable Warnings	EA	2	\$500		\$1,000
Pedestrian Ramps	EA	2	\$5,000		\$10,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$52,000		\$52,000
Permanent Landscaping	SF	1,100	\$4		\$4,070
Irrigation, Complete	SF	1,100	\$3		\$2,750
Pavement Markings, Complete	LS	ALL	\$3,000		\$3,000
Signage, Complete	LS	ALL	\$3,000		\$3,000
Illumination System, Complete	LS	ALL	\$20,700		\$20,700
	T	OTAL CONSTR	UCTION COST	\$	310,048
		3	0% Contingency	\$	93,020
TOTAL ESTIMATED PROJECT COST				\$	403,068

Scope Accuracy:

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Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Intersection: Gable Road & US 30

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: Tony Roos, PE			
This Estimate has	a Rating of:	3C	(See rating scale gu	iide below.)	
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST	
Mobilization	LS	ALL	\$148,000.00	\$148,000.00	
Traffic Control	LS	ALL	\$75,000.00	\$75,000.00	
Erosion Control	LS	ALL	\$4,000.00	\$4,000.00	
Removal of Structures and Obstructions	LS	ALL	\$33,000.00	\$33,000.00	
Clearing and Grubbing	LS	ALL	\$5,000.00	\$5,000.00	
General Earthworks	CY	500	\$25.00	\$12,500.00	
Asphalt Roadway - Full Depth	SF	2,700	\$7.50	\$20,250.00	
Concrete Roadway - Full Depth	SF	1,800	\$9.60	\$17,280.00	
Subgrade Geotextile	SY	300	\$1.00	\$300.0	
Concrete Curbs - Standard Curb & Gutter	LF	900	\$34.20	\$30,780.00	
Raised Concrete Island	SF	2,000	\$10.70	\$21,400.0	
Concrete Walks	SF	2,350	\$7.20	\$16,920.0	
Detectable Warnings	EA	5	\$500.00	\$2,500.0	
Pedestrian Ramps	EA	5	\$5,000.00	\$25,000.0	
Guardrail System, Complete	LF	100	\$125.00	\$12,500.0	
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$52,000.00	\$52,000.0	
Pavement Markings, Complete	LS	ALL	\$3,000.00	\$3,000.0	
Signage, Complete	LS	ALL	\$6,000.00	\$6,000.0	
Illumination System, Complete	LS	ALL	\$20,600.00	\$20,600.0	
RxR Crossing Replacement	LS	ALL	\$750,000.00	\$750,000.0	
Traffic Signal System, Complete	LS	ALL	\$450,000.00	\$450,000.0	
	T	OTAL CONSTR	UCTION COST	\$ 1,706,03	
		30	D% Contingency	\$ 511,81	
	TOTAL	ESTIMATED P	ROJECT COST	\$ 2,217,84	

Scope Accuracy:

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Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

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Segment 1: South 1st Street (St. Helens St. to End of Existing South 1st St.) City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019)		
Reviewed By: Jamestaun Kraupp, PE					
This E	stimate has a Rating of:	3C	(See rating scale gu	ıide be	elow.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$160,000		\$160,000
Traffic Control	LS	ALL	\$82,000		\$82,000
Erosion Control	LS	ALL	\$26,000		\$26,000
Removal of Structures and Obstructions	LS	ALL	\$35,000		\$35,000
Clearing and Grubbing	LS	ALL	\$31,000		\$31,000
General Earthworks	CY	3,400	\$50		\$170,000
Asphalt Roadway - Full Depth	SF	64,000	\$7		\$435,200
Subgrade Geotextile	SY	7,200	\$1		\$7,200
Concrete Curbs - Standard Curb	LF	2,600	\$29		\$74,360
Concrete Walks	SF	22,500	\$7		\$162,000
Detectable Warnings	EA	18	\$500		\$9,000
Pedestrian Ramps	EA	18	\$5,000		\$90,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$332,000		\$332,000
Permanent Landscaping	SF	14,000	\$4		\$51,800
Irrigation, Complete	SF	14,000	\$3		\$35,000
Pavement Markings, Complete	LS	ALL	\$19,000		\$19,000
Signage, Complete	LS	ALL	\$15,000		\$15,000
Illumination System, Complete	LS	ALL	\$132,700		\$132,700
		OTAL CONSTR	RUCTION COST	\$	1,867,260
30% Contingency				\$	560,180
TOTAL ESTIMATED PROJECT COST				\$	2,427,440

Scope Accuracy:

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Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

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Segment 2.1: Veneer Property (End of Existing 1st St. to Lagoon Dam) City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estima	ate has a Rating of:	3C	(See rating scale gu	iide be	elow.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$191,000		\$191,000
Traffic Control	LS	ALL	\$98,000		\$98,000
Erosion Control	LS	ALL	\$45,000		\$45,000
Removal of Structures and Obstructions	LS	ALL	\$42,000		\$42,000
Clearing and Grubbing	LS	ALL	\$37,000		\$37,000
General Earthworks	CY	6,000	\$50		\$300,000
Asphalt Roadway - Full Depth	SF	78,000	\$7		\$530,400
Subgrade Geotextile	SY	8,700	\$1		\$8,700
Concrete Curbs - Standard Curb	LF	3,000	\$29		\$85,800
Concrete Walks	SF	24,000	\$7		\$172,800
Detectable Warnings	EA	6	\$500		\$3,000
Pedestrian Ramps	EA	6	\$5,000		\$30,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$396,000		\$396,000
Permanent Landscaping	SF	16,500	\$4		\$61,050
Irrigation, Complete	SF	16,500	\$3		\$41,250
Pavement Markings, Complete	LS	ALL	\$23,000		\$23,000
Signage, Complete	LS	ALL	\$17,000		\$17,000
Illumination System, Complete	LS	ALL	\$158,300		\$158,300
	T	OTAL CONSTR	UCTION COST	\$	2,240,300
30% Contingency				\$	672,090
TOTAL ESTIMATED PROJECT COST				\$	2,912,390

Scope Accuracy:

Level 1: Project scope well understood and well defined.

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Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Segment 2.2: Playmouth Street (Lagoon Dam to South 6th St.)





Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019		
Reviewed By: Jamestaun Kraupp, PE				
This Estimate has	a Rating of:	3C	(See rating scale gu	iide below.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$107,000	\$107,000
Traffic Control	LS	ALL	\$73,000	\$73,000
Erosion Control	LS	ALL	\$15,000	\$15,000
Removal of Structures and Obstructions	LS	ALL	\$16,000	\$16,000
Clearing and Grubbing	LS	ALL	\$14,000	\$14,000
General Earthworks	CY	1,900	\$50	\$95,000
Asphalt Roadway - Full Depth	SF	24,200	\$7	\$164,560
Subgrade Geotextile	SY	2,700	\$1	\$2,700
Concrete Curbs - Standard Curb	LF	1,100	\$29	\$31,460
Concrete Walks	SF	11,000	\$7	\$79,200
Guardrail System, Complete	LF	1,100	\$75	\$82,500
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$131,000	\$131,000
Pavement Markings, Complete	LS	ALL	\$11,000	\$11,000
Signage, Complete	LS	ALL	\$9,000	\$9,000
Illumination System, Complete	LS	ALL	\$75,900	\$75,900
	T	OTAL CONSTR	UCTION COST	\$ 907,320
		3	0% Contingency	\$ 272,200
	TOTAL	ESTIMATED P	ROJECT COST	\$ 1,179,520

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Segment 3: Playmouth Street (South 6th St. to Old Portland Rd.)





Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estim	ate has a Rating of:	3C	(See rating scale gu	iide be	rlow.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$196,000		\$196,000
Traffic Control	LS	ALL	\$100,000		\$100,000
Erosion Control	LS	ALL	\$34,000		\$34,000
Removal of Structures and Obstructions	LS	ALL	\$43,000		\$43,000
Clearing and Grubbing	LS	ALL	\$38,000		\$38,000
General Earthworks	CY	4,500	\$50		\$225,000
Asphalt Roadway - Full Depth	SF	46,800	\$7		\$318,240
Subgrade Geotextile	SY	5,200	\$1		\$5,200
Concrete Curbs - Standard Curb	LF	3,900	\$29		\$111,540
Concrete Walks	SF	35,100	\$7		\$252,720
Detectable Warnings	EA	46	\$500		\$23,000
Pedestrian Ramps	EA	46	\$5,000		\$230,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$408,000		\$408,000
Permanent Landscaping	SF	15,600	\$4		\$57,720
Irrigation, Complete	SF	15,600	\$3		\$39,000
Pavement Markings, Complete	LS	ALL	\$24,000		\$24,000
Signage, Complete	LS	ALL	\$18,000		\$18,000
Illumination System, Complete	LS	ALL	\$163,200		\$163,200
	T	OTAL CONSTR	UCTION COST	\$	2,286,620
		3	0% Contingency	\$	685,990
	TOTAL	ESTIMATED P	ROJECT COST	\$	2,972,610

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Segement 4.1: Old Portland Road (Plymouoth St. to Gable Rd.)





Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019		
Reviewed By: Jamestuan Kraupp, PE				
This Estimate	has a Rating of:	3C	(See rating scale gu	ide below.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$417,000	\$417,000
Traffic Control	LS	ALL	\$213,000	\$213,000
Erosion Control	LS	ALL	\$79,000	\$79,000
Removal of Structures and Obstructions	LS	ALL	\$90,000	\$90,000
Clearing and Grubbing	LS	ALL	\$80,000	\$80,000
General Earthworks	CY	10,500	\$50	\$525,000
Asphalt Roadway - Full Depth	SF	108,000	\$7	\$734,400
Asphalt Cycle Track	SF	54,000	\$3	\$167,400
Subgrade Geotextile	SY	18,000	\$1	\$18,000
Concrete Curbs - Standard Curb	LF	18,000	\$29	\$514,800
Concrete Walks	SF	54,000	\$7	\$388,800
Detectable Warnings	EA	16	\$500	\$8,000
Pedestrian Ramps	EA	16	\$5,000	\$80,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$853,000	\$853,000
Permanent Landscaping	SF	45,000	\$4	\$166,500
Irrigation, Complete	SF	45,000	\$3	\$112,500
Pavement Markings, Complete	LS	ALL	\$49,000	\$49,000
Signage, Complete	LS	ALL	\$37,000	\$37,000
Illumination System, Complete	LS	ALL	\$341,100	\$341,100
	T	OTAL CONSTR	UCTION COST	\$ 4,874,500
		3	0% Contingency	\$ 1,462,350
	TOTAL	ESTIMATED P	ROJECT COST	\$ 6,336,850

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Segment 4.2: Gable Road (Old Portland Rd. to US 30)

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019		
Reviewed By: Jamestaun Kraupp, PE				
This Estimate has	a Rating of:	3C	(See rating scale gu	ıide below.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$311,000	\$311,000
Traffic Control	LS	ALL	\$159,000	\$159,000
Erosion Control	LS	ALL	\$66,000	\$66,000
Removal of Structures and Obstructions	LS	ALL	\$68,000	\$68,000
Clearing and Grubbing	LS	ALL	\$60,000	\$60,000
General Earthworks	CY	8,800	\$50	\$440,000
Asphalt Roadway - Full Depth	SF	110,200	\$7	\$749,360
Asphalt Cycle Track	SF	34,800	\$3	\$107,880
Subgrade Geotextile	SY	3,900	\$1	\$3,900
Concrete Curbs - Standard Curb	LF	5,800	\$29	\$165,880
Concrete Walks	SF	34,800	\$7	\$250,560
Detectable Warnings	EA	14	\$500	\$7,000
Pedestrian Ramps	EA	14	\$5,000	\$70,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$629,000	\$629,000
Permanent Landscaping	SF	29,000	\$4	\$107,300
Irrigation, Complete	SF	29,000	\$3	\$72,500
Pavement Markings, Complete	LS	ALL	\$43,000	\$43,000
Signage, Complete	LS	ALL	\$33,000	\$33,000
Illumination System, Complete	LS	ALL	\$299,100	\$299,100
	T	OTAL CONSTR	UCTION COST	\$ 3,642,480
		30	0% Contingency	\$ 1,092,750
	TOTAL	ESTIMATED P	ROJECT COST	\$ 4,735,230

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

St. Helens Riverfront Connection Segment 5: Old Portland Road (Gable Rd. to Millard Rd.)



City of St. Helens

repared By: Dimitryan Shadrin		Date: May 3, 2019		
eviewed By: Jamestaun Kraupp, PE				
This Estimate ha	s a Rating of:	3C	(See rating scale gui	de below.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST
Mobilization	LS	ALL	\$489,000	\$489,00
Traffic Control	LS	ALL	\$250,000	\$250,00
Erosion Control	LS	ALL	\$99,000	\$99,00
Removal of Structures and Obstructions	LS	ALL	\$106,000	\$106,00
Clearing and Grubbing	LS	ALL	\$94,000	\$94,00
General Earthworks	CY	13,200	\$50	\$660,00
Asphalt Roadway - Full Depth	SF	134,400	\$7	\$913,92
Subgrade Geotextile	SY	15,000	\$1	\$15,00
Concrete Curbs - Standard Curb	LF	11,200	\$29	\$320,32
Concrete Walks	SF	100,800	\$7	\$725,76
Detectable Warnings	EA	12	\$500	\$6,00
Pedestrian Ramps	EA	12	\$5,000	\$60,00
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$946,000	\$946,00
Permanent Landscaping	SF	72,800	\$4	\$269,36
Irrigation, Complete	SF	72,800	\$3	\$182,00
Pavement Markings, Complete	LS	ALL	\$68,000	\$68,00
Signage, Complete	LS	ALL	\$51,000	\$51,00
Illumination System, Complete	LS	ALL	\$470,800	\$470,80
	Т	OTAL CONSTR	RUCTION COST	\$ 5,726,16
		3	0% Contingency	\$ 1,717,85
	TOTAL	ESTIMATED P	ROJECT COST	\$ 7,444,01

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Segement 5: McNulty Way (Gable Rd. to Millard Rd.)

City of St. Helens



Engineer's Conceptual Estimate

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
Reviewed By: Jamestaun Kraupp, PE					
This Estimate h	as a Rating of:	3C	(See rating scale gu	iide be	elow.)
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE		TOTAL COST
Mobilization	LS	ALL	\$386,000		\$386,000
Traffic Control	LS	ALL	\$197,000		\$197,000
Erosion Control	LS	ALL	\$82,000		\$82,000
Removal of Structures and Obstructions	LS	ALL	\$84,000		\$84,000
Clearing and Grubbing	LS	ALL	\$74,000		\$74,000
General Earthworks	CY	10,900	\$50		\$545,000
Asphalt Roadway - Full Depth	SF	147,600	\$7		\$1,003,680
Subgrade Geotextile	SY	16,400	\$1		\$16,400
Concrete Curbs - Standard Curb	LF	8,200	\$29		\$234,520
Concrete Walks	SF	49,200	\$7		\$354,240
Detectable Warnings	EA	6	\$500		\$3,000
Pedestrian Ramps	EA	6	\$5,000		\$30,000
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$766,000		\$766,000
Permanent Landscaping	SF	41,000	\$4		\$151,700
Irrigation, Complete	SF	41,000	\$3		\$102,500
Pavement Markings, Complete	LS	ALL	\$56,000		\$56,000
Signage, Complete	LS	ALL	\$42,000		\$42,000
Illumination System, Complete	LS	ALL	\$390,600		\$390,600
	T	OTAL CONSTR	UCTION COST	\$	4,518,640
		3	0% Contingency	\$	1,355,600
	TOTAL	ESTIMATED P	ROJECT COST	\$	5,874,240

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

St. Helens Riverfront Connection Segment 5: Millard Road (US 30 to Old Portland Rd.)



City of St. Helens

Prepared By: Dimitryan Shadrin		Date: May 3, 2019			
eviewed By: Jamestaun Kraupp, PE					
	This Estimate has a Rating of:	3C	(See rating scale guide below.)		
ITEM	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL COST	
Mobilization	LS	ALL	\$168,000	\$168,	
Traffic Control	LS	ALL	\$86,000	\$86,	
Erosion Control	LS	ALL	\$38,000	\$38,	
Removal of Structures and Obstructions	LS	ALL	\$37,000	\$37,	
Clearing and Grubbing	LS	ALL	\$33,000	\$33,	
General Earthworks	CY	5,000	\$50	\$250,	
Asphalt Roadway - Full Depth (8" AC, 12" Agg)	SF	61,200	\$7	\$416,	
Subgrade Geotextile	SY	6,800	\$1	\$6,	
Concrete Curbs - Standard Curb	LF	3,400	\$29	\$97,	
Concrete Walks	SF	20,400	\$7	\$146,	
Detectable Warnings	EA	12	\$500	\$6,	
Pedestrian Ramps	EA	12	\$5,000	\$60,	
Storm Water System & Water Quality Treatment, Complete	LS	ALL	\$345,000	\$345,	
Permanent Landscaping	SF	17,000	\$4	\$62,	
Irrigation, Complete	SF	17,000	\$3	\$42,	
Pavement Markings, Complete	LS	ALL	\$20,000	\$20,	
Signage, Complete	LS	ALL	\$15,000	\$15,	
Illumination System, Complete	LS	ALL	\$137,700	\$137,	
	Te	OTAL CONST	RUCTION COST	\$ 1,968,1	
		3	30% Contingency	\$ 590,4	

Scope Accuracy:

Level 1: Project scope well understood and well defined.

Level 2: Project scope conceptual. Scope lacks detail due to potential permit requirements; Unknown project conditions; limited knowledge of external impacts.

Level 3: Project scope is a "vision" with limited detail.

Engineering Effort:

Level A: Preliminary engineering performed. Technical information is available, engineering calculations have been performed; clear understanding of the materials size and quantities needed to execute job. Schedule understood; staff and permitting is fairly clear, (however this element may still need refining). Project Development & Construction Contingencies ranges between 10%-20%.

TOTAL ESTIMATED PROJECT COST

Level B: Conceptual engineering performed. Technical information is available, rough engineering calculations may have been performed, or similar information from previous similar work is compared and used. Project Development Contingencies ranges between 15% to 25% and Construction Contingencies ranges between 20% to 30%.

Level C: No engineering performed. Educated guesstimating. Limited technical information available and/or analysis performed. Project Development and Construction Contingencies should be selected appropriately by Project Manager. Contingency may range up to 50%.

2,558,640