



Highway 211 and Highway 99E
Proposed Intersection Improvements
Dedicated Right-Turn Westbound Approach
City of Woodburn
Engineer Estimate
June 18, 2021



<u>Mobilization and Traffic Control</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Cost</u>
Mobilization	LS	1	\$ 40,000.00	\$ 40,000
Temporary Protection/Direction of Traffic	LS	1	\$ 12,000.00	\$ 12,000
Temporary Barricades	Each	20	\$ 300.00	\$ 6,000
Striping Removal	LF	860	\$ 8.00	\$ 6,880
Erosion Control	LS	1	\$ 11,000.00	\$ 11,000
Inlet Protection	Each	6	\$ 250.00	\$ 1,500
Flaggers	HR	400	\$ 55.00	\$ 22,000
Subtotal				\$ 99,380

<u>Roadwork</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Cost</u>
Removal of Structures, Obstructions & Trees	LS	1	\$ 6,000.00	\$ 6,000
Removal of Inlets	Each	7	\$ 500.00	\$ 3,500
Removal of curb ramp, walk, curb, surfacing	LS	1	\$ 14,000.00	\$ 14,000
Sawcut	LF	730	\$ 4.00	\$ 2,920
Excavation	CY	750	\$ 35.00	\$ 26,250
Subgrade Geotextile	SY	800	\$ 3.00	\$ 2,400
Aggregate Base	CY	380	\$ 35.00	\$ 13,300
Adjust Existing structures to Grade	LS	1	\$ 4,000.00	\$ 4,000
Subtotal				\$ 72,370

<u>Storm Drainage</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Cost</u>
12" Storm Line	LF	400	\$ 100.00	\$ 40,000
18" Storm Line	LF	300	\$ 150.00	\$ 45,000
Filter Water Quality Vault	Each	2	\$ 19,000.00	\$ 38,000
CG-3 Inlets	Each	5	\$ 3,000.00	\$ 15,000
Standard Manholes	Each	4	\$ 4,500.00	\$ 18,000
Connect to Existing	Each	3	\$ 1,000.00	\$ 3,000
Subtotal				\$ 159,000

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COMMUNITY DEVELOPMENT
DEPARTMENT

<u>Wearing Surfaces</u>	<u>Unit</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Total Cost</u>
Level 3, ½" Dense ACP	Tons	400	\$ 95.00	\$ 38,000
Concrete Curbs	LF	740	\$ 30.00	\$ 22,200
Concrete Driveway Approaches	Each	2	\$ 5,000.00	\$ 10,000
Concrete Walks	SF	2,950	\$ 6.00	\$ 17,700
Handicap Ramps	Each	4	\$ 2,500.00	\$ 10,000
Concrete/Landscape Island	LS	1	\$ 9,000.00	\$ 9,000
Truncated Domes	SF	100	\$ 35.00	\$ 3,500
Subtotal				\$ 143,700

Traffic Control/Guidance Devices

Directional Type 1AR Markers	Each	75	\$ 25.00	\$ 1,875
Thermoplastics, Extruded, Surface	LF	2,950	\$ 1.50	\$ 4,425
Pavement Legend (Arrows/Legends)	Each	15	\$ 300.00	\$ 4,500
Pavement Bars	SF	600	\$ 15.00	\$ 9,000
Subtotal				\$ 19,800

Traffic Control & Illumination Devices

Remove Existing Signs	LS	1	\$ 2,000.00	\$ 2,000
Sign Support Footings	LS	1	\$ 800.00	\$ 800
Signal Pole Mounts	LS	1	\$ 3,000.00	\$ 3,000
Perforated Square Base Sign Support	LS	1	\$ 1,000.00	\$ 1,000
Perforated Square Anchor Sign Support	LS	1	\$ 1,500.00	\$ 1,500
Signs – Standard Sheeting	SF	100	\$ 25.00	\$ 2,500
Removal of Existing Electrical System	LS	1	\$ 2,000.00	\$ 2,000
Removal of Existing Street Signal	LS	1	\$ 25,000.00	\$ 25,000
Relocation of Existing Photo Camera	LS	1	\$ 42,000.00	\$ 42,000
42" Signal Support Drilled Shaft	FT	33	\$ 850.00	\$ 28,050
Pole Foundations	LS	1	\$ 2,200.00	\$ 2,200
Switching, Conduit and wiring	LS	1	\$ 2,400.00	\$ 2,400
Refurbish/Reinstall Existing Light System	LS	1	\$ 1,500.00	\$ 1,500
Traffic Signal Installation	LS	1	\$ 300,000.00	\$ 300,000
Subtotal				\$ 413,950

Construction Total

\$ 908,200

Contingency LS 1 \$ 90,820.00 \$ 90,820

Right-of-Way Dedication LS 1 \$ 60,000.00 \$ 60,000

Engineering & Surveying LS 1 \$ 143,730.00 \$ 136,230

Total Mitigation Project

\$ 1,195,250