

Project Estimate Report: Development Phase

For

SE Mill Street, from SE 135th Avenue to SE 139th Avenue

February 12, 2020

Requested by: First Last

Prepared by: First Last

Location: SE Mill Street from SE 135th Avenue to SE 139th Avenue

Description: Sidewalk infill on the south side of SE Mill St from SE 135th Ave to SE 138th Ave.

SE Mill St from SE 135th Ave to SE 138th Ave

Current Cross-Section: 28' roadway with 0.5' curb within 65' ROW.

Proposed Cross-Section: 28' roadway, existing 0.5' curb, 4' furnishing zone, and 6' sidewalk within 65' ROW.

SE Mill St from SE 138th Ave to SE 139th Ave

Current Cross-Section: 40' roadway with 0.5' curb within 60' ROW.

Proposed Cross-Section: 40' roadway, existing 0.5' curb, 4' furnishing zone, and 6' sidewalk within 60' ROW.

Issues:

- Water – Existing water service boxes are in proposed walkway, relocate to furnishing zone.
- BES (storm, sanitary, water-quality facilities) – SED/SUMP existing, assess stormwater fees, per BES.
- Signals and Street Lighting – Removal of flashing red signal, per SSL
- Environmental and Zoning – None identified
- Contaminated Media – None identified
- Right-of-Way Needs – Existing fences built in ROW on SE Mill St between SE 138th and 139th Ave
- Railroads (BNSF; UPRR; PTTR) – None Identified
- Parks (landscaping and irrigation) – None identified.
- Urban Forestry – Assume new trees per Title 11.
- Other Jurisdictions (counties, schools, Port, ODOT, Tri-Met) – None identified.

Cost Estimate:

Total Construction	\$ 506,000
Project Management (7%)	\$ 27,000
Design Engineering (30%)	\$ 115,000
Construction Management (20%)	\$ 77,000
Right-of-Way (Cost + 30% Contingency)	\$ 43,000
Overhead (80.85%)	\$ 177,000
Total Inflation and Allowance for Design Refinement	\$ 360,000

Total Project Estimate: \$ 1,305,000

Estimating Assumptions:

- Assumes Existing conditions are based on GIS and Google Street View.
- Used PCDP Cost Estimate Template (Projects<\$1M).
- No acquisition of ROW.
- Modal coordinator(s) concurrence for project elements (Insert all Modal Coordinator names as applicable).
- TCEs for R7 zoning at \$15 SQFT, per (Right of Way Agent's Name here)
TCE calculations are 5' behind sidewalk and 10' around driveways. Only assess area inside property lines.
- Existing Fences along 2 properties (currently in ROW) will be moved by owner after notification.
- No retaining walls for sidewalk infill areas.
- BES stormwater fees assessed for all new sidewalk SQFT, and entire SQFT of any ramp upgraded with curb extensions, per direction from (BES Liaison Name here).
- 2 inlets to be replaced during improvement.
- All driveways (Qty 8) to be improved within work corridor.
- Each corner of any improved block to receive new ADA ramps (Qty 4)
- Relocate water meter boxes into the furnishing zone (Qty 8)
- No impact to fire hydrant located on SE Mill St between SE 135TH Ave & SE 138TH Ave.
- Add asphalt (13" pavement repair) to south side of 138th intersection (assumes 28' side street, per TDS) where currently is gravelled to allow hard surfaces between new ADA curbs.
- \$25,000 to address infill lighting enhancements, per (Signals Designer Name here).
- Removal of 4-way flashers at SE Mill St and SE 138th Ave, per TDS & SSL
- All crosswalks are type continental, SE Mill St and SE 135th Ave, and 138th Ave (8x125 SQFT B-HS) per TDS
- Other signing and striping considered negligible, to be covered with the contingency.
- Topsoil and seeding for furnishing zones
- New trees (1 every 25 feet, per Title 11) = 22 Trees
- TP & DT to be paid complete to include devices, lump sum rate increased to 9% from 6.5%, per (EOR or Traffic Designer name here).
- The years of inflation for this project is 4 years.
- The level of confidence for this estimate is **low**.

Review & Approval:

Reviewed by Engineer of Record

Date

Reviewed and Approved by Engineering Services Division Manager

Date

Attachments:

- Detailed estimate spreadsheet
- Site map

**CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION
PRELIMINARY ENGINEER'S ESTIMATE FOR LESS THAN \$1M
SIDEWALK INFILL**

Date: February 12, 2020

By: First Last

PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF SE MILL ST FROM SE 135TH AVE TO SE 139TH AVE (SOUTH SIDE ONLY)

VALUES IN BLUE ARE PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION	0210	LS	1.00	\$ 35,561.10	\$ 35,561.10
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC	0225	LS	1.00	\$ 26,670.83	\$ 26,670.83
16	STRIPING & STRIPE REMOVAL MOBILIZATION, COMPLETE	0225	EACH	1.00	\$ 1,483.00	\$ 1,483.00
24	EROSION CONTROL	0280	LS	1.00	\$ 3,141.23	\$ 3,141.23
30	INLET PROTECTION	0280	EACH	4.00	\$ 257.00	\$ 1,028.00
31	POLLUTION CONTROL PLAN	0290	LS	1.00	\$ 681.59	\$ 681.59
45	REMOVAL OF STRUCTURES & OBSTRUCTIONS	0310	LS	1.00	\$ 14,817.13	\$ 14,817.13
47	CLEARING AND GRUBBING	0320	LS	1.00	\$ 7,408.56	\$ 7,408.56
51	GENERAL EXCAVATION	0330	CUYD	141.00	\$ 74.40	\$ 10,490.40
84	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	0445	FOOT	40.00	\$ 110.00	\$ 4,400.00
102	CONCRETE INLETS, TYPE G-2	0470	EACH	2.00	\$ 2,946.00	\$ 5,892.00
158	13 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0748	SQYD	66.00	\$ 166.80	\$ 11,008.80
159	17 INCH ASPHALT CONCRETE PAVEMENT REPAIR	0748	SQYD	207.00	\$ 163.50	\$ 33,844.50
174	MONOLITHIC CURB AND DRIVEWAYS	0759	SQFT	2,993.00	\$ 26.00	\$ 77,818.00
177	CONCRETE WALKS	0759	SQFT	3,316.00	\$ 13.20	\$ 43,771.20
178	MONOLITHIC CURB AND SIDEWALKS	0759	SQFT	853.00	\$ 23.00	\$ 19,619.00
183	CONCRETE DRIVEWAY CONNECTIONS	0759	SQFT	478.00	\$ 20.00	\$ 9,560.00
214	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	0865	FOOT	300.00	\$ 3.28	\$ 984.00
220	PAVEMENT BAR , TYP B-HS	0867	SQFT	1,000.00	\$ 23.45	\$ 23,448.54
247	REMOVAL OF ELECTRICAL SYSTEMS (traffic signals)	0950	LS*	1.00	\$ 2,400.00	\$ 2,400.00
251	LUMINAIRES, LAMPS AND BALLASTS (Infill lighting, per SSL)	0970	LS*	1.00	\$ 25,000.00	\$ 25,000.00
262	LAWN SEEDING	1030	SQYD	274.11	\$ 9.33	\$ 2,558.37
263	TOPSOIL	1040	CUYD	45.69	\$ 69.18	\$ 3,160.71
266	DECIDUOUS TREES, 2-1/2 INCH CALIPER	1040	EACH	22.00	\$ 822.00	\$ 18,084.00
294	REMOVE & REINSTALL MAILBOX SUPPORTS	1070	EACH	8.00	\$ 224.00	\$ 1,792.00
TOTAL BID ITEMS						\$ 384,622.96

ANTICIPATED ITEMS

NO.	ITEMS OF WORK AND MATERIALS	REFERENCE	UNIT	QUANTITY	UNIT PRICE	AMOUNT
3	RELOCATE WATER FACILITIES - METER		EACH	8.00	\$ 6,000.00	\$ 48,000.00
9	STORMWATER OFFSITE MANAGEMENT FEE		SQFT	4169.00	\$ 3.70	\$ 15,425.30
15	BOLI FEE PAYMENT		LS	1.00	\$ 384.62	\$ 384.62
16	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)		LS	1.00	\$ 38,462.30	\$ 38,462.30

TOTAL ANTICIPATED ITEMS

\$ 102,272.22

SCHEDULE SUMMARY

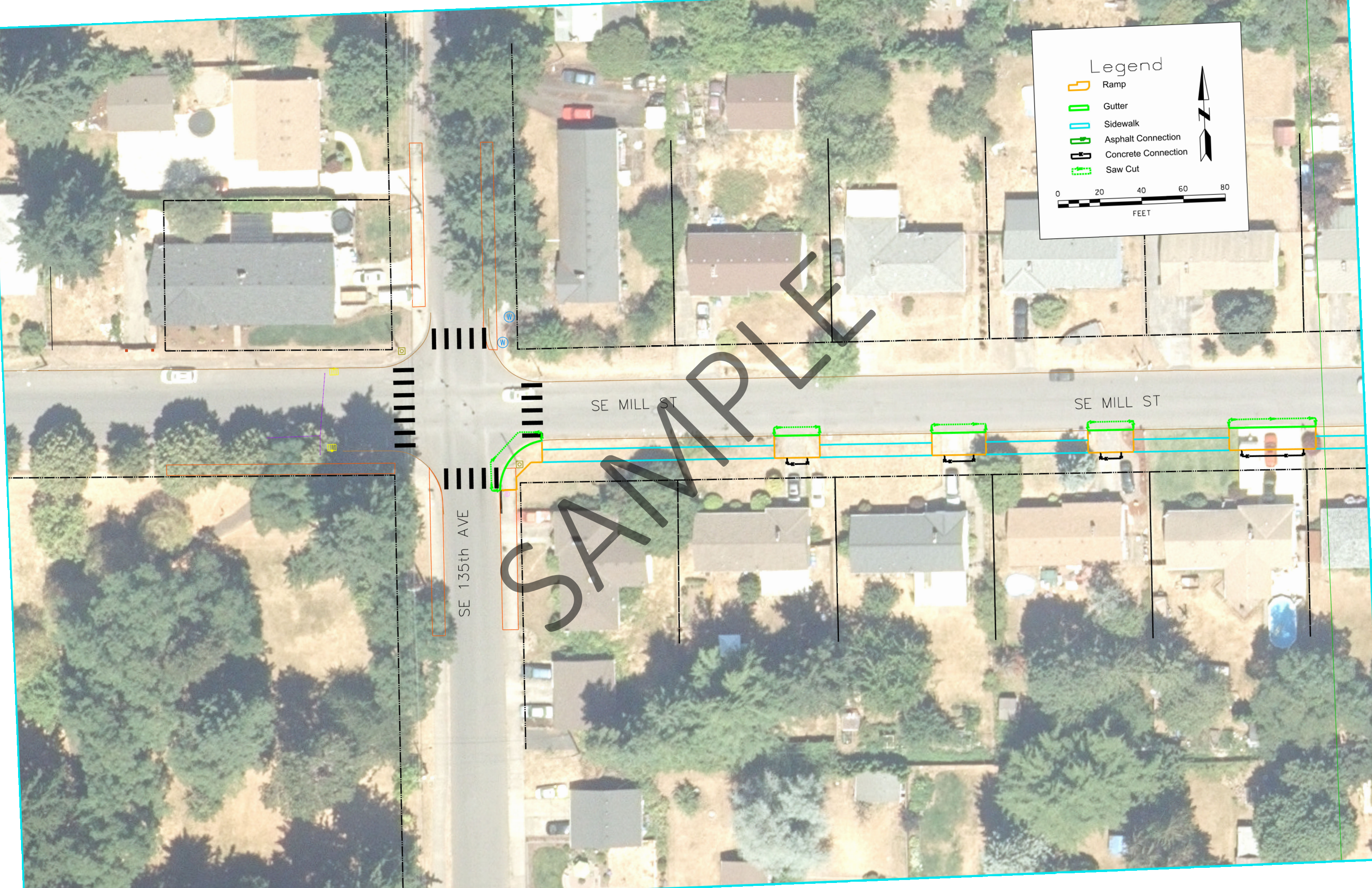
BID ITEMS		\$ 384,623
CONSTRUCTION CONTINGENCY	5% of Bid Items*	\$ 19,231
SUBTOTAL		\$ 403,854
ANTICIPATED ITEMS		\$ 102,272
TOTAL CONSTRUCTION		\$ 506,126
PROJECT MANAGEMENT	7% of Bid Items	\$ 26,924
DESIGN ENGINEERING	30% of Bid Items	\$ 115,387
CONSTRUCTION MANAGEMENT	20% of Bid Items	\$ 76,925
SUBTOTAL		\$ 219,236
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	80.85% of PM, Eng, and CM	\$ 177,252

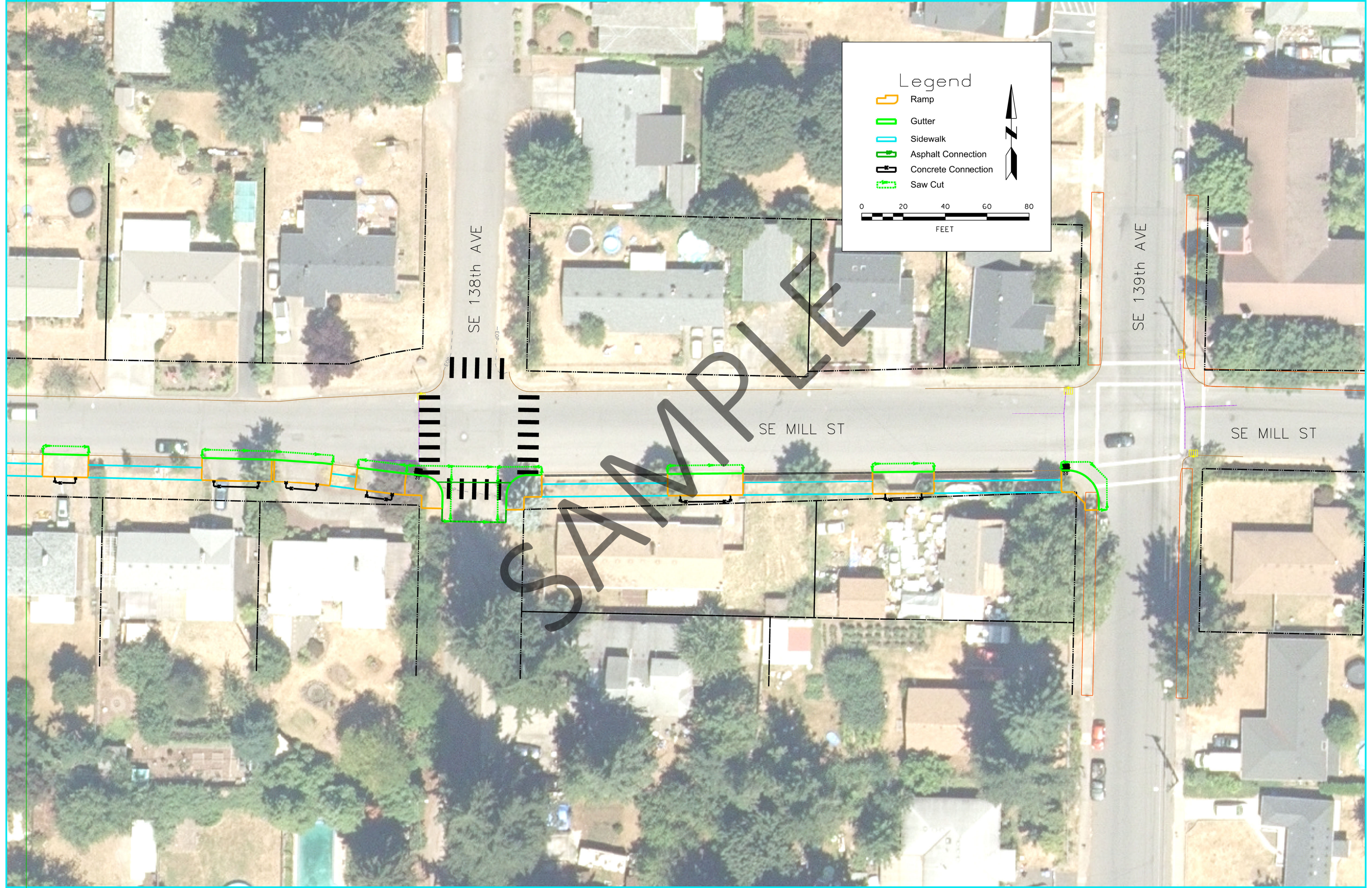
NO.	ITEMS OF WORK AND MATERIALS	SPEC REFERENCE	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
	TOTAL PROJECT ENGINEERING & MANAGEMENT					\$ 396,488
	RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES					\$ 33,060
	RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION					\$ -
	RIGHT-OF-WAY CONTINGENCY				30% of Land, Improve, and Damages	\$ 9,918
	TOTAL PROJECT RIGHT-OF-WAY					\$ 42,978
			Years		Inflation	
	INFLATION RATE ON CONTRACT		4		5.1% of Construction	\$ 111,420
	INFLATION RATE ON PERSONNEL		4		2.3% of Eng & Mgmt	\$ 37,755
	ALLOWANCE FOR DESIGN REFINEMENT				20% of Const, Eng & Mgmt, and Inflation	\$ 210,358
	TOTAL INFLATION AND ALLOWANCE FOR DESIGN REFINEMENT					\$ 359,533
	TOTAL PROJECT ESTIMATE					\$ 1,305,125

Legend

- Ramp
- Gutter
- Sidewalk
- Asphalt Connection
- Concrete Connection
- Saw Cut

0 20 40 60 80
FEET





Legend

- Ramp
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0 20 40 60 80
FEET

SE 138th AVE

SE 139th AVE

SE MILL ST

SE MILL ST