

**CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION ENGINEERING AND DEVELOPMENT
PRELIMINARY ENGINEER'S ESTIMATE
NE 109th LID**

Preliminary Engineer's Estimate for the improvement of NE 109th Ave from NE Marx St. to 925' north.

Note: BID ITEMS IN BOLD ARE NOT ODOT STANDARD BID ITEMS.

Note: Percentages shown in blue are variable.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	Mobilization (8%)	ls	1.00	\$ 50,000.00	\$ 50,000.00
2	Temporary Protection & Direction of Traffic (1%)	ls	1.00	\$ 6,200.00	\$ 6,200.00
3	Temporary Signs	sf	100.00	\$ 20.00	\$ 2,000.00
4	Temporary Barricades, Type III	ea	2.00	\$ 164.00	\$ 328.00
5	Flaggers	hr	200.00	\$ 40.00	\$ 8,000.00
6	Straw Bale Sediment Barrier	lf	0.00	\$ 11.00	\$ -
7	Silt Fence, Unsupported	lf	1,850.00	\$ 4.60	\$ 8,510.00
8	Inlet Protection	ea	0.00	\$ 106.00	\$ -
9	Gravel Construction Entrances	ea	1.00	\$ 1,520.00	\$ 1,520.00
10	Removal of Structures & Obstructions (1%)	ls	1.00	\$ 6,200.00	\$ 6,200.00
11	Clearing and Grubbing	ls	1.00	\$ 8,300.00	\$ 8,300.00
12	Contingent Tree Removal, 0" - 8"	ea	0.00	\$ 300.00	\$ -
13	Contingent Tree Removal, 8" - 20"	ea	0.00	\$ 700.00	\$ -
14	Contingent Tree Removal, Over 20"	ea	0.00	\$ 910.00	\$ -
15	Exploratory Tree Root Excavation	hr	0.00	\$ 190.00	\$ -
16	Ditch Excavation	cy	0.00	\$ 12.20	\$ -
17	General Excavation	cy	3,182.00	\$ 28.10	\$ 89,414.20
18	Embankment in Place	cy	0.00	\$ 12.80	\$ -
19	12" Subgrade Stabilization	sy	421.10	\$ 15.00	\$ 6,316.50
20	Watering	kgal	0.00	\$ 67.00	\$ -
21	Subgrade Geotextile	sy	4,211.00	\$ 1.50	\$ 6,316.50
22	Retaining Wall, Conventional Segmental	sf	0.00	\$ 28.00	\$ -
23	Retaining Wall, MSE	sf	0.00	\$ 38.70	\$ -
24	Trench Excavation	cy	0.00	\$ 22.80	\$ -
25	Selected Stone Backfill	cy	0.00	\$ 33.50	\$ -
26	Selected Granular Backfill	cy	0.00	\$ 21.30	\$ -
27	Class "C" Bedding	cy	0.00	\$ 22.80	\$ -
28	3 Inch Drain Pipe	lf	0.00	\$ 25.90	\$ -
29	10 Inch Storm Sewer Pipe, 5 ft Depth	lf	0.00	\$ 40.00	\$ -
30	10 Inch Storm Sewer Pipe, 10 ft Depth	lf	50.00	\$ 112.00	\$ 5,600.00
31	12 Inch Storm Sewer Pipe, 5 ft Depth	lf	0.00	\$ 42.00	\$ -
32	12 Inch Storm Sewer Pipe, 10 ft Depth	lf	0.00	\$ 60.00	\$ -
33	12 Inch Storm HDPE Pipe	lf	250.00	\$ 100.00	\$ 25,000.00
33	Stormwater Swale	sf	4,250.00	\$ 10.00	\$ 42,500.00
34	Passive Treatment Pond	ls	1.00	\$ -	\$ -
35	Concrete Manholes, Type?	ea	0.00	\$ 3,880.00	\$ -
36	Concrete Manholes, Sedimentation, 10' Deep	ea	0.00	\$ 4,110.00	\$ -
37	Concrete Sumps, 30' Deep	ea	0.00	\$ 7,910.00	\$ -
38	Concrete Manholes, Spill Containment	ea	1.00	\$ 5,000.00	\$ 5,000.00
39	Stormwater Outfall	ea	1.00	\$ 5,000.00	\$ 5,000.00
38	Sump Capacity Test	ea	0.00	\$ 1,140.00	\$ -
39	Standby for Sump Test Results	hr	0.00	\$ 61.00	\$ -
40	Sump Pipe Stubout	ea	0.00	\$ 106.00	\$ -
41	Concrete Inlets Type SW	ea	17.00	\$ 300.00	\$ 5,100.00
42	Concrete Inlets Type PB	ea	0.00	\$ 800.00	\$ -

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
43	Concrete Inlets Type G-2	ea	0.00	\$ 1,520.00	\$ -
44	Concrete Inlets Type CG-2	ea	0.00	\$ 1,670.00	\$ -
45	Concrete Inlets Type D	ea	0.00	\$ 1,600.00	\$ -
46	Drainage Curbs	lf	0.00	\$ 7.60	\$ -
47	Adjust Manholes	ea	0.00	\$ 365.00	\$ -
48	Reconstruct Manholes	ea	0.00	\$ 1,370.00	\$ -
49	Adjust Inlets	ea	0.00	\$ 380.00	\$ -
50	Adjust Boxes	ea	0.00	\$ 327.00	\$ -
51	Trench Resurfacing	sy	0.00	\$ 68.00	\$ -
52	Aggregate Base	cy	0.00	\$ 48.70	\$ -
53	Aggregate Base	ton	3,334.00	\$ 27.20	\$ 90,684.80
54	Aggregate Driveway Connection	sy	0.00	\$ 19.00	\$ -
55	Aggregate Driveway Connection	ton	0.00	\$ 63.50	\$ -
56	Level 2, 1/2 inch Dense HMAC	ton	2,211.00	\$ 63.70	\$ 140,840.70
57	Extra for Asphalt Approaches	ea	0.00	\$ 610.00	\$ -
58	Asphalt Driveway Connection	sy	0.00	\$ 24.30	\$ -
59	Asphalt Driveway Connection	ton	0.00	\$ 170.20	\$ -
60	Plain Conc. Pave., Undowelled, 5.5" Thick	sy	0.00	\$ 47.20	\$ -
61	Plain Conc. Pave., Undowelled, 11" Thick	sy	0.00	\$ 36.50	\$ -
62	Curb and Gutter Concrete Curbs	lf	1,378.00	\$ 30.00	\$ 41,340.00
63	Standard Curb Concrete Curbs	lf	110.00	\$ 25.00	\$ 2,750.00
64	Concrete Driveways	sf	0.00	\$ 6.00	\$ -
65	Concrete Driveways, Reinforced	sf	10,680.00	\$ 6.00	\$ 64,080.00
66	Concrete Driveway Connection	sf	0.00	\$ 5.70	\$ -
67	Concrete Walk	sf	5,028.00	\$ 6.00	\$ 30,168.00
68	Monolithic Curb and Sidewalk	sf	1,844.00	\$ 8.25	\$ 15,213.00
69	Concrete Surfacing, 12"	sf	0.00	\$ 19.00	\$ -
70	Concrete Stairs	lf	0.00	\$ 227.00	\$ -
71	Remove & Re-install Existing Signs	ea	0.00	\$ 145.00	\$ -
72	Sign Support Footings	ea	0.00	\$ 106.50	\$ -
73	Sign Support Footings, Breakaway	ea	4.00	\$ 670.00	\$ 2,680.00
73	Single Post Slip Base Sign Supports	ea	0.00	\$ 1,140.00	\$ -
74	Pipe Sign Posts	ea	0.00	\$ 121.70	\$ -
75	Type G Signs in Place	sf	2.00	\$ 29.00	\$ 58.00
76	Type R Signs in Place	sf	9.00	\$ 29.00	\$ 261.00
77	Type W1 Signs in Place	sf	0.00	\$ 27.00	\$ -
78	Type W2 Signs in Place	sf	0.00	\$ 32.00	\$ -
79	Type Y1 Signs in Place	sf	6.25	\$ 27.00	\$ 168.75
80	Topsoil	cy	82.00	\$ 38.00	\$ 3,116.00
81	Seeding, Fertilizing & Mulching	sy	0.00	\$ 2.30	\$ -
82	Wildflower Planting	sy	0.00	\$ 3.00	\$ -
83	Erosion Control Matting	sy	0.00	\$ 3.00	\$ -
84	Seeded Lawn	sy	0.00	\$ 4.10	\$ -
85	Sod Lawn	sy	0.00	\$ 15.20	\$ -
86	Deciduous Trees, 2" Caliper	ea	0.00	\$ 380.00	\$ -
87	Shrubs, Size?	ea	0.00	\$ 15.20	\$ -
88	Ground Cover, Size?	ea	0.00	\$ 1.50	\$ -
89	Bark Mulch	cy	0.00	\$ 120.00	\$ -
90	CL-6 Modified Chain Link Fence	lf	0.00	\$ 15.20	\$ -
91	Remove Fence	lf	0.00	\$ 18.60	\$ -
92	Salvage & Re-Install Fence	lf	0.00	\$ 66.80	\$ -
93	Relocate Mailbox & Post	ea	0.00	\$ 137.00	\$ -
93	Sign Supports	ea	0.00	\$ 228.00	\$ -
94	Single Mailbox Supports	ea	0.00	\$ 228.00	\$ -
95	Multiple Mailbox Supports	ea	0.00	\$ 418.00	\$ -
96	Mailbox Concrete Collars	ea	0.00	\$ 68.50	\$ -
97	Size I Mail Box	ea	0.00	\$ 25.90	\$ -
98	Size II Mail Box	ea	0.00	\$ 45.60	\$ -
99	Tree Grates	ea	12.00	\$ 350.00	\$ 4,200.00

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
100	Tree Grate Frames	ea	12.00	\$ 875.00	\$ 10,500.00
101	Install Funding Sign	ea	0.00	\$ 304.00	\$ -

TOTAL BID ITEMS \$ 687,365.45

ANTICIPATED ITEMS

NO.	ITEMS OF WORK AND MATERIALS	UNIT	TOTAL QUANTITY	UNIT PRICE	TOTAL AMOUNT
102	Right of Way Monumentation	ea	8.00	\$ 500.00	\$ 4,000.00
103	Erosion Control	ls	1.00	\$ -	\$ -
104	Deciduous Trees, 2" Caliper	ea	0.00	\$ 900.00	\$ -
105	Deciduous Trees, 3" Caliper	ea	46.00	\$ 1,100.00	\$ 50,600.00
106	Street Lighting - Upgrade Luminaries	ea	0.00	\$ 350.00	\$ -
107	Street Lighting - Install Arms and Luminaries	ea	2.00	\$ 550.00	\$ 1,100.00
####	Replace Sewer House Branch	lf	0.00	\$ -	\$ -

TOTAL ANTICIPATED ITEMS \$ 55,700.00

SCHEDULE SUMMARY

BID ITEMS	\$ 687,365.45
ANTICIPATED ITEMS	\$ 55,700.00
 SUBTOTAL	 \$ 743,065.45
CONSTRUCTION CONTINGENCY (5%)	\$ 37,200.00
 TOTAL CONSTRUCTION	 \$ 780,265.45
PROJECT MANAGEMENT (5%)	\$ 39,000.00
DESIGN ENGINEERING (25%)	\$ 195,100.00
CONSTRUCTION MANAGEMENT (20%)	\$ 156,100.00
 TOTAL PROJECT MANAGEMENT, ENGINEERING	 \$ 390,200.00
RIGHT-OF-WAY & PROPERTY ACQUISITION	\$ 207,390.00
RIGHT-OF-WAY CONTINGENCY (20%)	\$ 41,478.00
 TOTAL PROJECT RIGHT-OF-WAY	 \$ 248,868.00
 SUBTOTAL	 \$ 1,419,333.45
 OVERHEAD (0%)	 \$ -
INFLATION RATE ON CONTRACT OF 4.2% FOR 2 YEARS	\$ 66,918.69
INFLATION RATE ON PERSONNEL OF 2.0% FOR 2 YEARS	\$ 15,764.08
ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE (20%)	\$ 300,403.24
 TOTAL PROJECT CONTINGENCY	 \$ 383,086.01
 TOTAL PROJECT ESTIMATE	 \$ 1,802,419.46