

184090

CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION ENGINEERING AND DEVELOPMENT
PRELIMINARY ENGINEER'S ESTIMATE
NE 136th Ave: NE Prescott Ct. to NE Whitaker Way

PRELIMINARY ENGINEER'S ESTIMATE FOR FULL ROADWAY IMPROVEMENT OF NE 136th AVE FROM NE PRESCOTT CT. TO NE WHITAKER WAY (865 LF) AND 134 LF OF SIDEWALK ALONG NE PRESCOTT CT.
VALUES IN BLUE ARE A PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION (8%)	1.00	LS	\$ 52,900.00	\$ 52,900.00
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
3	TEMPORARY SIGNS	45.00	SQFT	\$ 19.00	\$ 855.00
4	TEMPORARY BARRICADES, TYPE II	4.00	EACH	\$ 62.04	\$ 248.16
5	TEMPORARY BARRICADES, TYPE III	2.00	EACH	\$ 199.00	\$ 398.00
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	0.00	FOOT	\$ 23.41	\$ -
7	MOVING TEMPORARY CONCRETE BARRIER	0.00	FOOT	\$ 5.03	\$ -
8	TEMPORARY IMPACT ATTENUATOR	0.00	EACH	\$ 3,160.62	\$ -
9	TEMPORARY PEDESTRIAN WALKWAYS	0.00	FOOT	\$ 90.14	\$ -
10	TEMPORARY PLASTIC DRUMS	50.00	EACH	\$ 70.24	\$ 3,512.00
11	TEMPORARY REFLECTIVE PAVEMENT MARKERS	0.00	EACH	\$ 3.51	\$ -
12	TEMPORARY FLEXIBLE PAVEMENT MARKERS	0.00	EACH	\$ 1.99	\$ -
13	TEMPORARY STRIPING	0.00	FOOT	\$ 0.23	\$ -
14	STRIPE REMOVAL	0.00	FOOT	\$ 0.76	\$ -
15	STRIPING & STRIPE REMOVAL MOBILIZATION	0.00	EACH	\$ 403.83	\$ -
16	TEMPORARY TRAFFIC SIGNAL INSTALLATION	0.00	EACH	\$ 63,212.40	\$ -
17	SEQUENTIAL ARROW SIGNS	1.00	EACH	\$ 4,916.62	\$ 4,916.62
18	PORTABLE CHANGEABLE MESSAGE SIGNS	1.00	EACH	\$ 14,398.38	\$ 14,398.38
19	FLAGGERS	1,440.00	HOURLY	\$ 44.48	\$ 64,051.20
20	TEMPORARY CL-6R CHAIN LINK FENCE	1,203.00	FOOT	\$ 9.36	\$ 11,260.08
21	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	200.00	FOOT	\$ 2.93	\$ 586.00
22	EROSION CONTROL (1.5%)	1.00	LS	\$ 9,900.00	\$ 9,900.00
23	CONSTRUCTION ENTRANCES	2.00	EACH	\$ 1,404.72	\$ 2,809.44
24	INLET PROTECTION	5.00	EACH	\$ 105.35	\$ 526.75
25	BIOFILTER BAGS	0.00	EACH	\$ 12.88	\$ -
26	SEDIMENT FENCE, SUPPORTED	0.00	FOOT	\$ 5.09	\$ -
27	SEDIMENT FENCE, UNSUPPORTED	1,730.00	FOOT	\$ 3.51	\$ 6,072.30
28	PLASTIC SHEETING	0.00	SQFT	\$ 0.59	\$ -
29	MATTING	0.00	SQFT	\$ 0.35	\$ -
30	POLLUTION CONTROL PLAN (0.5%)	1.00	LS	\$ 3,300.00	\$ 3,300.00
31	REMOVAL OF STRUCTURES & OBSTRUCTIONS (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
32	REMOVAL OF CURBS	0.00	FOOT	\$ 6.79	\$ -
33	REMOVAL OF FENCES	0.00	FOOT	\$ 2.87	\$ -
34	REMOVAL OF INLETS	0.00	EACH	\$ 286.80	\$ -
35	REMOVAL OF MANHOLES	0.00	EACH	\$ 971.60	\$ -
36	REMOVAL OF PIPES	0.00	FOOT	\$ 23.41	\$ -
37	REMOVAL OF RAILROAD TRACK AND TIES	0.00	FOOT	\$ 24.58	\$ -
38	SALVAGING AND STOCKPILING OF COBLESTONES	0.00	SQYD	\$ 8.19	\$ -
39	REMOVAL OF SURFACINGS	0.00	SQYD	\$ 7.61	\$ -
40	REMOVAL OF WALKS AND DRIVEWAYS	0.00	SQYD	\$ 12.88	\$ -
41	CLEARING AND GRUBBING (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
42	TREE ROOT REMOVAL	0.00	HOURLY	\$ 180.00	\$ -
43	TREE TRIMMING	0.00	HOURLY	\$ 350.00	\$ -
44	TREE REMOVAL, 12 INCH	0.00	EACH	\$ 690.00	\$ -
45	DITCH EXCAVATION	0.00	CUYD	\$ 18.73	\$ -
46	GENERAL EXCAVATION	1,593.00	CUYD	\$ 27.10	\$ 43,170.30
47	SURCHARGE EXCAVATION	0.00	CUYD	\$ 3.51	\$ -
48	EMBANKMENT IN PLACE	0.00	CUYD	\$ 16.39	\$ -
49	SETTLEMENT PLATES	0.00	EACH	\$ 497.50	\$ -
50	12 INCH SUBGRADE STABILIZATION	353.00	SQYD	\$ 15.22	\$ 5,372.66
51	12 INCH SURFACING STABILIZATION	0.00	SQYD	\$ 31.61	\$ -
52	AGGREGATE DITCH LINING	0.00	SQYD	\$ 19.90	\$ -
53	WATERING	0.00	KGAL	\$ 65.00	\$ -
54	DRAINAGE GEOTEXTILE, TYPE 2	0.00	SQYD	\$ 2.34	\$ -
55	EMBANKMENT GEOTEXTILE	0.00	SQYD	\$ 1.17	\$ -
56	SUBGRADE GEOTEXTILE	3,530.00	SQYD	\$ 1.50	\$ 5,295.00
57	GEOGRID	0.00	SQYD	\$ 5.85	\$ -
58	GRANULAR DRAINAGE BLANKET	0.00	TON	\$ 42.14	\$ -
59	FILTER BLANKET	0.00	SQYD	\$ 32.02	\$ -
60	LOOSE RIPRAP, CLASS 50	0.00	CUYD	\$ 117.06	\$ -
61	LOOSE RIPRAP, CLASS 100	0.00	CUYD	\$ 93.65	\$ -
62	TRENCH FOUNDATION	0.00	CUYD	\$ 55.02	\$ -
63	EXPLORATORY EXCAVATION	0.00	CUYD	\$ 146.66	\$ -
64	STORMWATER CURB EXTENSIONS	760.00	SQFT	\$ 20.00	\$ 15,200.00
65	STORMWATER PLANTERS	0.00	SQFT	\$ 20.00	\$ -
66	STORMWATER SWALES	0.00	SQFT	\$ 9.58	\$ -
67	3 INCH DRAIN PIPE	1,730.00	FOOT	\$ 25.00	\$ 43,250.00
68	SUBSURFACE DRAIN OUTLETS	4.00	EACH	\$ 152.18	\$ 608.72
69	CONCRETE CLOSURE COLLAR	0.00	EACH	\$ 528.77	\$ -
70	TV PIPE INSPECTION	370.00	FOOT	\$ 1.99	\$ 736.30
71	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 103.31	\$ -
72	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	251.00	FOOT	\$ 88.97	\$ 22,331.47
73	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 69.07	\$ -
74	16 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 65.94	\$ -
75	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 76.87	\$ -
76	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 221.21	\$ -
77	CONCRETE MANHOLES, SANITARY SEWER	0.00	EACH	\$ 3,511.80	\$ -
78	CONCRETE MANHOLES, STORM SEWER	2.00	EACH	\$ 3,160.62	\$ 6,321.24
79	CONCRETE MANHOLES, WATER QUALITY	0.00	EACH	\$ 23,412.00	\$ -
80	CONCRETE MANHOLES, SEDIMENTATION	0.00	EACH	\$ 8,779.50	\$ -
81	CONCRETE INLETS, TYPE CG-1	0.00	EACH	\$ 1,492.52	\$ -
82	CONCRETE INLETS, TYPE CG-2	2.00	EACH	\$ 1,521.78	\$ 3,043.56
83	CONCRETE INLETS, TYPE CG-3	0.00	EACH	\$ 1,404.72	\$ -
84	CONCRETE INLETS, TYPE D	0.00	EACH	\$ 1,404.72	\$ -
85	CONCRETE INLETS, TYPE G-1	0.00	EACH	\$ 1,551.05	\$ -
86	CONCRETE INLETS, TYPE G-2 (beehive grates for curb extensions)	4.00	EACH	\$ 1,521.78	\$ 6,087.12
87	CONCRETE INLETS TYPE G-2MA	0.00	EACH	\$ 1,638.84	\$ -
88	CONCRETE INLETS, TYPE PB	8.00	EACH	\$ 550.00	\$ 4,400.00
89	CONCRETE INLETS, TYPE CHANNEL & GRATE	0.00	EACH	\$ 871.00	\$ -
90	CATCH BASINS, METAL SUMP	0.00	EACH	\$ 1,755.90	\$ -
91	DRAINAGE CURBS	0.00	FOOT	\$ 8.44	\$ -
92	ADJUSTING BOXES	0.00	EACH	\$ 316.00	\$ -
93	CONNECTION TO EXISTING STRUCTURES	0.00	EACH	\$ 3,160.62	\$ -
94	ADJUSTING INLETS	1.00	EACH	\$ 368.00	\$ 368.00
95	FILLING ABANDON STRUCTURES	0.00	EACH	\$ 772.60	\$ -
96	MINOR ADJUSTMENT OF MANHOLES	6.00	EACH	\$ 353.00	\$ 2,118.00
97	MAJOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 1,323.00	\$ -
98	MANHOLES OVER EXISTING SEWERS	0.00	EACH	\$ 7,023.60	\$ -
99	TRENCH RESURFACING	17.00	SQYD	\$ 79.60	\$ 1,353.20
100	SHORING, CRIBBING AND COFFERDAMS	0.00	LS	\$ -	\$ -
101	STRUCTURE EXCAVATION	0.00	CUYD	\$ 37.63	\$ -
102	GRANULAR WALL BACKFILL	0.00	CUYD	\$ 45.01	\$ -
103	GRANULAR STRUCTURAL BACKFILL	0.00	CUYD	\$ 37.81	\$ -
104	CONCRETE BRIDGE	0.00	SQFT	\$ 204.86	\$ -
105	BIKE OASIS	0.00	EACH	\$ 30,201.48	\$ -
106	3 INCH ELECTRICAL CONDUIT	0.00	FOOT	\$ 24.23	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
107	ASPHALTIC PLUG JOINT SEALS	0.00	LS	\$ 38,044.50	\$ -
108	ASPHALTIC PLUG JOINT SEAL MATERIAL	0.00	CUYD	\$ 4,975.05	\$ -
109	ORNAMENTAL PROTECTIVE SCREENING	0.00	FOOT	\$ 147.38	\$ -
110	RETAINING WALL, CAST-IN-PLACE CONCRETE	0.00	SQFT	\$ 66.43	\$ -
111	RETAINING WALL, GABION	0.00	SQFT	\$ 22.42	\$ -
112	RETAINING WALL, PREFABRICATED MODULAR	0.00	SQFT	\$ 65.26	\$ -
113	RETAINING WALL, CONVENTIONAL SEGMENTAL	0.00	SQFT	\$ 32.78	\$ -
114	RETAINING WALL, MSE	0.00	SQFT	\$ 45.30	\$ -
115	SOUND WALLS	0.00	SQFT	\$ 19.02	\$ -
116	CONCRETE ARCH CULVERT	0.00	FOOT	\$ 1,428.13	\$ -
117	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	0.00	SQYD	\$ 0.35	\$ -
118	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	0.00	SQYD	\$ 0.41	\$ -
119	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	0.00	SQYD	\$ 0.39	\$ -
120	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	0.00	SQYD	\$ 0.40	\$ -
121	AGGREGATE BASE	1,258.00	TON	\$ 26.30	\$ 33,085.40
122	LEVEL 1, 1/2 INCH DENSE HMAC MIXTURE, IN TEMPORARY	0.00	TON	\$ 85.81	\$ -
123	LEVEL 2, 1/2 INCH DENSE, HMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
124	LEVEL 3, 1/2 INCH DENSE, HMAC MIXTURE	1,441.00	TON	\$ 85.81	\$ 123,652.21
125	LEVEL 3, 3/4 INCH ATPB HMAC MIXTURE	0.00	TON	\$ 70.82	\$ -
126	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE, IN LEVELING	0.00	TON	\$ 85.81	\$ -
127	CRACK SEALING	0.00	FOOT	\$ 6.15	\$ -
128	EXTRA FOR ASPHALT APPROACHES	13.00	EACH	\$ 567.74	\$ 7,380.62
129	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 6 INCH THICK	0.00	SQYD	\$ 64.38	\$ -
130	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 8 INCH THICK	0.00	SQYD	\$ 74.92	\$ -
131	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 46.57	\$ -
132	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 12 INCH THICK	0.00	SQYD	\$ 51.25	\$ -
133	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOVELLED, 10 INCHES THICK	0.00	SQYD	\$ 67.89	\$ -
134	CONCRETE CURBS, CURB AND GUTTER	1,667.00	FOOT	\$ 26.92	\$ 42,183.64
135	CONCRETE CURBS, STANDARD CURB	0.00	FOOT	\$ 18.73	\$ -
136	CONCRETE CURB, MOUNTABLE CURB	0.00	FOOT	\$ 26.34	\$ -
137	CONCRETE ISLANDS	0.00	SQFT	\$ 6.79	\$ -
138	CONCRETE DRIVEWAYS	3,761.00	SQFT	\$ 7.02	\$ 26,402.22
139	CONCRETE DRIVEWAYS, REINFORCED	0.00	SQFT	\$ 4.80	\$ -
140	CONCRETE WALKS	8,486.00	SQFT	\$ 5.97	\$ 50,661.42
141	MONOLITHIC CURB AND SIDEWALKS	1,910.00	SQFT	\$ 9.68	\$ 18,450.60
142	6 INCH CONCRETE SURFACING	0.00	SQFT	\$ 11.12	\$ -
143	CONCRETE STAIRS	0.00	CUYD	\$ 1,638.84	\$ -
144	CONCRETE SIDEWALK RAMPS	0.00	EACH	\$ 1,463.25	\$ -
145	CONCRETE BUS SHELTER PADS	0.00	EACH	\$ 678.95	\$ -
146	DETECTABLE WARNING SURFACE	0.00	SQFT	\$ 46.82	\$ -
147	CONCRETE VALLEY GUTTER	0.00	FOOT	\$ 35.70	\$ -
148	BRICK PAVERS	0.00	SQFT	\$ 42.73	\$ -
149	CONCRETE PAVERS	0.00	SQFT	\$ 10.83	\$ -
150	PERMEABLE PAVERS	0.00	SQFT	\$ 10.48	\$ -
151	CONCRETE RAILROAD CROSSING	0.00	FOOT	\$ 438.98	\$ -
152	GUARDRAIL, TYPE 2A	0.00	FOOT	\$ 21.36	\$ -
153	GUARDRAIL, TYPE 3	0.00	FOOT	\$ 59.70	\$ -
154	GUARDRAIL ANCHORS, TYPE 1	0.00	EACH	\$ 807.71	\$ -
155	GUARDRAIL END PIECES, TYPE C	0.00	EACH	\$ 131.11	\$ -
156	GUARDRAIL TRANSITION	0.00	EACH	\$ 2,663.12	\$ -
157	GUARDRAIL CONNECTIONS	0.00	EACH	\$ 743.33	\$ -
158	GUARDRAIL TERMINALS, NON-FLARED	0.00	EACH	\$ 2,604.59	\$ -
159	GUARDRAIL TERMINALS, FLARED	0.00	EACH	\$ 2,458.26	\$ -
160	REMOVABLE BOLLARDS	0.00	EACH	\$ 819.42	\$ -
161	CONCRETE BARRIER	0.00	FOOT	\$ 46.82	\$ -
162	IMPACT ATTENUATORS, TYPE CAT-350	0.00	EACH	\$ 5,841.29	\$ -
163	IMPACT ATTENUATORS, TYPE QUAD GUARD	0.00	EACH	\$ 33,174.80	\$ -
164	DELINEATORS TYPE 2	0.00	EACH	\$ 52.68	\$ -
165	DELINEATORS TYPE 4	0.00	EACH	\$ 30.44	\$ -
166	PAVEMENT LEGEND, TYPE B: ARROWS	0.00	EACH	\$ 243.48	\$ -
167	PAVEMENT LEGEND, TYPE B: "ONLY"	0.00	EACH	\$ 362.89	\$ -
168	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	0.00	EACH	\$ 250.51	\$ -
169	PAVEMENT LINE, TYPE A	0.00	SQFT	\$ 4.33	\$ -
170	PAVEMENT LINE, TYPE B	0.00	SQFT	\$ 6.91	\$ -
171	BI-DIRECTIONAL YELLOW TYPE I MARKERS	0.00	EACH	\$ 4.68	\$ -
172	WHITE TYPE II MARKERS	0.00	EACH	\$ 4.10	\$ -
173	THERMOPLASTIC, NON-PROFILE, 90 MILS, EXTRUDED	0.00	FOOT	\$ 1.11	\$ -
174	PAVEMENT LINE REMOVAL	0.00	FOOT	\$ 0.62	\$ -
175	PAVEMENT LEGEND REMOVAL	0.00	EACH	\$ 59.12	\$ -
176	REMOVE EXISTING SIGNS	0.00	LS*	\$ 128.77	\$ -
177	REMOVE & REINSTALL EXISTING SIGNS	2.00	LS*	\$ 140.00	\$ 280.00
178	SIGN SUPPORT FOOTINGS, BREAKAWAY	9.00	LS*	\$ 102.90	\$ 926.10
179	SIGNAL POLE MOUNTS	0.00	LS*	\$ 585.30	\$ -
180	PIPE SIGN POSTS	9.00	LS*	\$ 117.00	\$ 1,053.00
181	TYPE "B" SIGNS IN PLACE	0.00	SQFT	\$ 36.87	\$ -
182	TYPE "B1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
183	TYPE "C" SIGNS IN PLACE	0.00	SQFT	\$ 29.85	\$ -
184	TYPE "G" SIGNS IN PLACE	0.00	SQFT	\$ 32.78	\$ -
185	TYPE "G1" SIGNS IN PLACE	0.00	SQFT	\$ 30.44	\$ -
186	TYPE "G5" SIGNS IN PLACE	0.00	SQFT	\$ 38.92	\$ -
187	TYPE "R" SIGNS IN PLACE	6.25	SQFT	\$ 27.51	\$ 171.94
188	TYPE "R1" SIGNS IN PLACE	0.00	SQFT	\$ 26.92	\$ -
189	TYPE "W1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
190	TYPE "W2" SIGNS IN PLACE	0.00	SQFT	\$ 25.58	\$ -
191	TYPE "W4" SIGNS IN PLACE	12.00	SQFT	\$ 25.17	\$ 302.04
192	TYPE "W6" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -
193	TYPE "W7" SIGNS IN PLACE	0.00	SQFT	\$ 27.27	\$ -
194	TYPE "Y1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
195	TYPE "Y2" SIGNS IN PLACE	0.00	SQFT	\$ 21.66	\$ -
196	REMOVAL OF EXISTING ILLUMINATION	0.00	LS*	\$ 362.89	\$ -
197	REMOVAL OF EXISTING TRAFFIC SIGNALS	0.00	LS*	\$ 3,394.74	\$ -
198	POLE FOUNDATIONS	4.00	LS*	\$ 1,404.72	\$ 5,618.88
199	LIGHTING POLES, FIXED BASE	0.00	LS*	\$ 6,438.30	\$ -
200	LIGHTING POLE ARMS	4.00	LS*	\$ 316.06	\$ 1,264.24
201	LUMINAIRES, LAMPS AND BALLASTS	4.00	LS*	\$ 995.01	\$ 3,980.04
202	SWITCHING, CONDUIT AND WIRING	0.00	LS*	\$ 4,155.63	\$ -
203	TRAFFIC SIGNAL INSTALLATION	0.00	LS*	\$ 119,752.38	\$ -
204	TRAFFIC SIGNAL MODIFICATIONS	0.00	LS*	\$ 30,435.60	\$ -
205	INTERCONNECT SYSTEM (UNDERGROUND)	0.00	LS	\$ 36.29	\$ -
206	INTERCONNECT SYSTEM (OVERHEAD)	0.00	LS	\$ 3.51	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
207	LOOP DETECTORS INSTALLATION	0.00	LS*	\$ 10,909.99	\$ -
208	TRAFFIC CAMERA INSTALLATIONS, COMPLETE	0.00	LS*	\$ 23,997.30	\$ -
209	PERMANENT SEEDING	1.00	LS	\$ 2,019.29	\$ 2,019.29
210	LAWN SEEDING	0.00	SQYD	\$ 5.27	\$ -
211	TOPSOIL	72.00	CUYD	\$ 32.66	\$ 2,351.62
212	SOIL CONDITIONER	0.00	CUYD	\$ 45.95	\$ -
213	CONIFER TREES, 9 FT HEIGHT	0.00	EACH	\$ 327.77	\$ -
214	DECIDUOUS TREES, 2-1/2 INCH CALIPER	38.00	EACH	\$ 477.27	\$ 18,136.26
215	DECIDUOUS TREES, 3 INCH CALIPER	0.00	EACH	\$ 538.48	\$ -
216	SHRUBS, NO. 1 CONTAINER	0.00	EACH	\$ 11.71	\$ -
217	SHRUBS, NO. 2 CONTAINER	0.00	EACH	\$ 26.92	\$ -
218	SHRUBS, NO. 3 CONTAINER	0.00	EACH	\$ 40.97	\$ -
219	SHRUBS, NO. 5 CONTAINER	0.00	EACH	\$ 46.82	\$ -
220	GROUND COVERS, NO. 1 CONTAINERS	0.00	EACH	\$ 11.71	\$ -
221	GROUND COVERS, 4 INCH POTS	0.00	EACH	\$ 4.39	\$ -
222	BULBS	0.00	EACH	\$ 3.51	\$ -
223	SEEDLING PLANTS	0.00	EACH	\$ 10.54	\$ -
224	ROOTED PLANT CUTTINGS	0.00	EACH	\$ 5.85	\$ -
225	SOD LAWN	0.00	SQYD	\$ 15.45	\$ -
226	BARK MULCH	0.00	CUYD	\$ 35.12	\$ -
227	ROCK MULCH	0.00	TON	\$ 62.92	\$ -
228	PLANT ESTABLISHMENT WORK	1.00	LS*	\$ 10,036.56	\$ 10,036.56
229	ADDITIONAL ESTABLISHMENT PERIOD	1.00	YEAR	\$ 10,036.56	\$ 10,036.56
230	TREE GRATES	0.00	EACH	\$ 1,024.28	\$ -
231	ROOT BARRIER	0.00	FOOT	\$ 13.11	\$ -
232	TREE GRATE FRAMES	0.00	EACH	\$ 421.42	\$ -
233	BORDER EDGING	0.00	FOOT	\$ 12.12	\$ -
234	TYPE 2 FENCE	1,203.00	FOOT	\$ 25.23	\$ 30,351.69
235	CL-6 CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
236	CL-8R CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
237	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	0.00	FOOT	\$ 20.25	\$ -
238	SINGLE MAILBOX SUPPORTS	0.00	EACH	\$ 273.92	\$ -
239	MULTIPLE MAILBOX SUPPORTS	0.00	EACH	\$ 389.81	\$ -
240	MAILBOX CONCRETE COLLARS	3.00	EACH	\$ 120.57	\$ 361.71
241	REMOVE & REINSTALL MAILBOX SUPPORTS	3.00	EACH	\$ 221.00	\$ 663.00
242	BENCHES, TYPE	0.00	EACH	\$ 2,663.12	\$ -
243	BICYCLE RACKS	0.00	EACH	\$ 386.30	\$ -
244	LITTER RECEPTACLES	0.00	EACH	\$ 1,580.31	\$ -
245	IRRIGATION SYSTEM	0.00	LS	\$ -	\$ -
246	4 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 94.23	\$ -
247	6 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 119.99	\$ -
248	8 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 99.85	\$ -
249	12 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 124.96	\$ -
250	4 INCH GATE VALVE	0.00	EACH	\$ 745.67	\$ -
251	6 INCH GATE VALVE	0.00	EACH	\$ 1,002.03	\$ -
252	8 INCH GATE VALVE	0.00	EACH	\$ 1,258.40	\$ -
253	12 INCH GATE VALVE	0.00	EACH	\$ 1,275.95	\$ -
254	HYDRANT ASSEMBLIES	1.00	EACH	\$ 2,996.74	\$ 2,996.74

* Unit Price Shown is on Each Basis

TOTAL BID ITEMS

\$ 747,555.08

***** ANTICIPATED ITEMS *****

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION	1.00	LS	\$ 4,250.00	\$ 4,250.00
2	ADJUST WATER FACILITIES - FIRE HYDRANT	1.00	EACH	\$ 12,000.00	\$ 12,000.00
3	ADJUST WATER FACILITIES - METER	7.00	EACH	\$ 1,000.00	\$ 7,000.00
4	STREET LIGHTING - UPGRADE LUMINARIES	0.00	EACH	\$ 350.00	\$ -
5	STREET LIGHTING - INSTALL ARMS AND LUMINARIES	0.00	EACH	\$ 550.00	\$ -
6	CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	0.00	EACH	\$ 1,000.00	\$ -
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	760.00	SOFT	\$ 12.00	\$ 9,120.00
8	STORMWATER OFFSITE MANAGEMENT FEE	0.00	SOFT	\$ 2.76	\$ -
9	ROCK EXCAVATION	0.00	CUYD	\$ 106.00	\$ -
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	0.00	LS	\$ 100,000.00	\$ -
11	ASPHALT CEMENT ESCALATION	1.00	LS	\$ 1,000.00	\$ 1,000.00
12	FUEL ESCALATION	1.00	LS	\$ 5,000.00	\$ 5,000.00
13	TESTING CONTAMINATED MEDIUM	0.00	LS	\$ 5,000.00	\$ -
14	BOLI FEE PAYMENT (0.1% CONTRACT)	1.00	LS	\$ 747.56	\$ 747.56
15	CONTRACT CONTINGENCY (10% OF BID ITEMS)	1.00	LS	\$ 74,755.51	\$ 74,755.51

TOTAL ANTICIPATED ITEMS

\$ 113,873.06

SCHEDULE SUMMARY

BID ITEMS		\$ 747,555
CONSTRUCTION CONTINGENCY	5% of Bid Items*	\$ 37,378
SUBTOTAL		\$ 784,933
ANTICIPATED ITEMS		\$ 113,873
TOTAL CONSTRUCTION		\$ 898,806
PROJECT MANAGEMENT	2.5% of Bid Items	\$ 18,689
ROW ACQUISITION		\$ 39,000
DESIGN ENGINEERING		\$ 126,300
CONSTRUCTION MANAGEMENT		\$ 134,300
SUBTOTAL		\$ 318,289
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	65.88% of POOT Staff	\$ 164,297
TOTAL PROJECT ENGINEERING & MANAGEMENT		\$ 482,586
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES		\$ 101,150
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION		\$ 37,700
RIGHT-OF-WAY CONTINGENCY (ATTORNEY NEGOTIATIONS)	30% of Land, Improv. and Damages	\$ 30,345
TOTAL PROJECT RIGHT-OF-WAY		\$ 169,195
PROJECT CONTINGENCY		\$ 146,049
TOTAL PROJECT ESTIMATE		\$ 1,696,636

CITY OF PORTLAND, OREGON
BUREAU OF TRANSPORTATION ENGINEERING AND DEVELOPMENT
PRELIMINARY ENGINEER'S ESTIMATE
NE 136th Ave: NE Prescott Ct. to NE Whitaker Way

PRELIMINARY ENGINEER'S ESTIMATE FOR FULL ROADWAY IMPROVEMENT OF NE 136th AVE FROM NE PRESCOTT CT. TO NE WHITAKER WAY (865 LF) AND 134 LF OF SIDEWALK ALONG NE PRESCOTT CT.
VALUES IN BLUE ARE A PERCENT OF CONTRACT.

BID ITEMS

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	MOBILIZATION (8%)	1.00	LS	\$ 52,900.00	\$ 52,900.00
2	TEMPORARY PROTECTION & DIRECTION OF TRAFFIC (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
3	TEMPORARY SIGNS	45.00	SQFT	\$ 19.00	\$ 855.00
4	TEMPORARY BARRICADES, TYPE II	4.00	EACH	\$ 62.04	\$ 248.16
5	TEMPORARY BARRICADES, TYPE III	2.00	EACH	\$ 199.00	\$ 398.00
6	TEMPORARY CONCRETE BARRIER, REFLECTORIZED	0.00	FOOT	\$ 23.41	-
7	MOVING TEMPORARY CONCRETE BARRIER	0.00	FOOT	\$ 5.03	-
8	TEMPORARY IMPACT ATTENUATOR	0.00	EACH	\$ 3,160.62	-
9	TEMPORARY PEDESTRIAN WALKWAYS	0.00	FOOT	\$ 90.14	-
10	TEMPORARY PLASTIC DRUMS	50.00	EACH	\$ 70.24	\$ 3,512.00
11	TEMPORARY REFLECTIVE PAVEMENT MARKERS	0.00	EACH	\$ 3.51	-
12	TEMPORARY FLEXIBLE PAVEMENT MARKERS	0.00	EACH	\$ 1.99	-
13	TEMPORARY STRIPING	0.00	FOOT	\$ 0.23	-
14	STRIPE REMOVAL	0.00	FOOT	\$ 0.76	-
15	STRIPING & STRIPE REMOVAL MOBILIZATION	0.00	EACH	\$ 403.83	-
16	TEMPORARY TRAFFIC SIGNAL INSTALLATION	0.00	EACH	\$ 63,212.40	-
17	SEQUENTIAL ARROW SIGNS	1.00	EACH	\$ 4,916.52	\$ 4,916.52
18	PORTABLE CHANGEABLE MESSAGE SIGNS	1.00	EACH	\$ 14,398.38	\$ 14,398.38
19	FLAGGERS	1,440.00	HOURLY	\$ 44.48	\$ 64,051.20
20	TEMPORARY CL-6R CHAIN LINK FENCE	1,203.00	FOOT	\$ 9.36	\$ 11,260.08
21	TEMPORARY TYPE ORANGE PLASTIC MESH FENCE	200.00	FOOT	\$ 2.93	\$ 586.00
22	EROSION CONTROL (1.5%)	1.00	LS	\$ 9,900.00	\$ 9,900.00
23	CONSTRUCTION ENTRANCES	2.00	EACH	\$ 1,404.72	\$ 2,809.44
24	INLET PROTECTION	5.00	EACH	\$ 105.35	\$ 526.75
25	BIOFILTER BAGS	0.00	EACH	\$ 12.88	-
26	SEDIMENT FENCE, SUPPORTED	0.00	FOOT	\$ 5.09	-
27	SEDIMENT FENCE, UNSUPPORTED	1,730.00	FOOT	\$ 3.51	\$ 6,072.30
28	PLASTIC SHEETING	0.00	SQFT	\$ 0.59	-
29	MATTING	0.00	SQFT	\$ 0.35	-
30	POLLUTION CONTROL PLAN (0.5%)	1.00	LS	\$ 3,300.00	\$ 3,300.00
31	REMOVAL OF STRUCTURES & OBSTRUCTIONS (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
32	REMOVAL OF CURBS	0.00	FOOT	\$ 6.79	-
33	REMOVAL OF FENCES	0.00	FOOT	\$ 2.87	-
34	REMOVAL OF INLETS	0.00	EACH	\$ 286.80	-
35	REMOVAL OF MANHOLES	0.00	EACH	\$ 971.60	-
36	REMOVAL OF PIPES	0.00	FOOT	\$ 23.41	-
37	REMOVAL OF RAILROAD TRACK AND TIES	0.00	FOOT	\$ 24.58	-
38	SALVAGING AND STOCKPILING OF COBLESTONES	0.00	SQYD	\$ 8.19	-
39	REMOVAL OF SURFACINGS	0.00	SQYD	\$ 7.61	-
40	REMOVAL OF WALKS AND DRIVEWAYS	0.00	SQYD	\$ 12.88	-
41	CLEARING AND GRUBBING (1%)	1.00	LS	\$ 6,600.00	\$ 6,600.00
42	TREE ROOT REMOVAL	0.00	HOURLY	\$ 180.00	-
43	TREE TRIMMING	0.00	HOURLY	\$ 350.00	-
44	TREE REMOVAL, 12 INCH	0.00	EACH	\$ 690.00	-
45	DITCH EXCAVATION	0.00	CUYD	\$ 18.73	-
46	GENERAL EXCAVATION	1,593.00	CUYD	\$ 27.10	\$ 43,170.30
47	SURCHARGE EXCAVATION	0.00	CUYD	\$ 3.51	-
48	EMBANKMENT IN PLACE	0.00	CUYD	\$ 16.39	-
49	SETTLEMENT PLATES	0.00	EACH	\$ 497.50	-
50	12 INCH SUBGRADE STABILIZATION	353.00	SQYD	\$ 15.22	\$ 5,372.86
51	12 INCH SURFACING STABILIZATION	0.00	SQYD	\$ 31.61	-
52	AGGREGATE DITCH LINING	0.00	SQYD	\$ 19.90	-
53	WATERING	0.00	KGAL	\$ 65.00	-
54	DRAINAGE GEOTEXTILE, TYPE 2	0.00	SQYD	\$ 2.34	-
55	EMBANKMENT GEOTEXTILE	0.00	SQYD	\$ 1.17	-
56	SUBGRADE GEOTEXTILE	3,530.00	SQYD	\$ 1.50	\$ 5,295.00
57	GEOGRID	0.00	SQYD	\$ 5.85	-
58	GRANULAR DRAINAGE BLANKET	0.00	TON	\$ 42.14	-
59	FILTER BLANKET	0.00	SQYD	\$ 32.02	-
60	LOOSE RIPRAP, CLASS 50	0.00	CUYD	\$ 117.06	-
61	LOOSE RIPRAP, CLASS 100	0.00	CUYD	\$ 93.65	-
62	TRENCH FOUNDATION	0.00	CUYD	\$ 55.02	-
63	EXPLORATORY EXCAVATION	0.00	CUYD	\$ 146.66	-
64	STORMWATER CURB EXTENSIONS	760.00	SQFT	\$ 20.00	\$ 15,200.00
65	STORMWATER PLANTERS	0.00	SQFT	\$ 20.00	-
66	STORMWATER SWALES	0.00	SQFT	\$ 9.58	-
67	3 INCH DRAIN PIPE	1,730.00	FOOT	\$ 25.00	\$ 43,250.00
68	SUBSURFACE DRAIN OUTLETS	4.00	EACH	\$ 152.18	\$ 608.72
69	CONCRETE CLOSURE COLLAR	0.00	EACH	\$ 526.77	-
70	TV PIPE INSPECTION	370.00	FOOT	\$ 1.99	\$ 736.30
71	8 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 103.33	-
72	10 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	251.00	FOOT	\$ 88.97	\$ 22,331.47
73	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 69.07	-
74	16 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 65.94	-
75	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 76.87	-
76	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D	0.00	FOOT	\$ 221.21	-
77	CONCRETE MANHOLES, SANITARY SEWER	0.00	EACH	\$ 3,511.80	-
78	CONCRETE MANHOLES, STORM SEWER	2.00	EACH	\$ 3,160.62	\$ 6,321.24
79	CONCRETE MANHOLES, WATER QUALITY	0.00	EACH	\$ 23,412.00	-
80	CONCRETE MANHOLES, SEDIMENTATION	0.00	EACH	\$ 8,779.50	-
81	CONCRETE INLETS, TYPE CG-1	0.00	EACH	\$ 1,492.52	-
82	CONCRETE INLETS, TYPE CG-2	2.00	EACH	\$ 1,521.78	\$ 3,043.56
83	CONCRETE INLETS, TYPE CG-3	0.00	EACH	\$ 1,404.72	-
84	CONCRETE INLETS, TYPE D	0.00	EACH	\$ 1,404.72	-
85	CONCRETE INLETS, TYPE G-1	0.00	EACH	\$ 1,551.05	-
86	CONCRETE INLETS, TYPE G-2 (beehive grates for curb extensions)	4.00	EACH	\$ 1,521.78	\$ 6,087.12
87	CONCRETE INLETS TYPE G-2MA	0.00	EACH	\$ 1,638.84	-
88	CONCRETE INLETS, TYPE PB	8.00	EACH	\$ 550.00	\$ 4,400.00
89	CONCRETE INLETS, TYPE CHANNEL & GRATE	0.00	EACH	\$ 871.00	-
90	CATCH BASINS, METAL SUMP	0.00	EACH	\$ 1,755.90	-
91	DRAINAGE CURBS	0.00	FOOT	\$ 6.44	-
92	ADJUSTING BOXES	0.00	EACH	\$ 316.00	-
93	CONNECTION TO EXISTING STRUCTURES	0.00	EACH	\$ 3,160.62	-
94	ADJUSTING INLETS	1.00	EACH	\$ 368.00	\$ 368.00
95	FILLING ABANDON STRUCTURES	0.00	EACH	\$ 772.60	-
96	MINOR ADJUSTMENT OF MANHOLES	6.00	EACH	\$ 353.00	\$ 2,118.00
97	MAJOR ADJUSTMENT OF MANHOLES	0.00	EACH	\$ 1,323.00	-
98	MANHOLES OVER EXISTING SEWERS	0.00	EACH	\$ 7,023.60	-
99	TRENCH RESURFACING	17.00	SQYD	\$ 79.60	\$ 1,353.20
100	SHORING, CRIBBING AND COFFERDAMS	0.00	LS	-	-
101	STRUCTURE EXCAVATION	0.00	CUYD	\$ 37.63	-
102	GRANULAR WALL BACKFILL	0.00	CUYD	\$ 45.01	-
103	GRANULAR STRUCTURAL BACKFILL	0.00	CUYD	\$ 37.61	-
104	CONCRETE BRIDGE	0.00	SQFT	\$ 204.86	-
105	BIKE OASIS	0.00	EACH	\$ 30,201.48	-
106	3 INCH ELECTRICAL CONDUIT	0.00	FOOT	\$ 24.23	-

Local Street

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
107	ASPHALTIC PLUG JOINT SEALS	0.00	LS	\$ 38,044.50	\$ -
108	ASPHALTIC PLUG JOINT SEAL MATERIAL	0.00	CUYD	\$ 4,975.05	\$ -
109	ORNAMENTAL PROTECTIVE SCREENING	0.00	FOOT	\$ 147.38	\$ -
110	RETAINING WALL, CAST-IN-PLACE CONCRETE	0.00	SQFT	\$ 66.43	\$ -
111	RETAINING WALL, GABION	0.00	SQFT	\$ 22.42	\$ -
112	RETAINING WALL, PREFABRICATED MODULAR	0.00	SQFT	\$ 65.26	\$ -
113	RETAINING WALL, CONVENTIONAL SEGMENTAL	0.00	SQFT	\$ 32.78	\$ -
114	RETAINING WALL, MSE	0.00	SQFT	\$ 45.30	\$ -
115	SOUND WALLS	0.00	SQFT	\$ 19.02	\$ -
116	CONCRETE ARCH CULVERT	0.00	FOOT	\$ 1,428.13	\$ -
117	COLD PLANE PAVEMENT REMOVAL, 2 INCH DEEP	0.00	SQYD	\$ 0.35	\$ -
118	COLD PLANE PAVEMENT REMOVAL, 3 INCH DEEP	0.00	SQYD	\$ 0.41	\$ -
119	COLD PLANE PAVEMENT REMOVAL, 4 INCH DEEP	0.00	SQYD	\$ 0.39	\$ -
120	COLD PLANE PAVEMENT REMOVAL, 5 INCH DEEP	0.00	SQYD	\$ 0.40	\$ -
121	AGGREGATE BASE	1,258.00	TON	\$ 26.30	\$ 33,085.40
122	LEVEL 1, 1/2 INCH DENSE HMAC MIXTURE, IN TEMPORARY	0.00	TON	\$ 85.81	\$ -
123	LEVEL 2, 1/2 INCH DENSE, HMAC MIXTURE	0.00	TON	\$ 85.81	\$ -
124	LEVEL 3, 1/2 INCH DENSE, HMAC MIXTURE	1,441.00	TON	\$ 85.81	\$ 123,652.21
125	LEVEL 3, 3/4 INCH ATPB HMAC MIXTURE	0.00	TON	\$ 70.82	\$ -
126	LEVEL 3, 1/2 INCH DENSE HMAC MIXTURE, IN LEVELING	0.00	TON	\$ 85.81	\$ -
127	CRACK SEALING	0.00	FOOT	\$ 6.15	\$ -
128	EXTRA FOR ASPHALT APPROACHES	13.00	EACH	\$ 567.74	\$ 7,380.62
129	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 6 INCH THICK	0.00	SQYD	\$ 64.38	\$ -
130	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 8 INCH THICK	0.00	SQYD	\$ 74.92	\$ -
131	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 10 INCH THICK	0.00	SQYD	\$ 46.57	\$ -
132	PLAIN CONCRETE PAVEMENT, UNDOVELLED, 12 INCH THICK	0.00	SQYD	\$ 51.25	\$ -
133	PLAIN PERVIOUS CONCRETE PAVEMENT, UNDOVELLED, 10 INCHES THICK	0.00	SQYD	\$ 67.89	\$ -
134	CONCRETE CURBS, CURB AND GUTTER	1,567.00	FOOT	\$ 26.92	\$ 42,183.64
135	CONCRETE CURBS, STANDARD CURB	0.00	FOOT	\$ 18.73	\$ -
136	CONCRETE CURB, MOUNTABLE CURB	0.00	FOOT	\$ 26.34	\$ -
137	CONCRETE ISLANDS	0.00	SQFT	\$ 6.79	\$ -
138	CONCRETE DRIVEWAYS	3,761.00	SQFT	\$ 7.02	\$ 26,402.22
139	CONCRETE DRIVEWAYS, REINFORCED	0.00	SQFT	\$ 4.80	\$ -
140	CONCRETE WALKS	8,486.00	SQFT	\$ 5.97	\$ 50,681.42
141	MONOLITHIC CURB AND SIDEWALKS	1,910.00	SQFT	\$ 9.66	\$ 18,450.60
142	6 INCH CONCRETE SURFACING	0.00	SQFT	\$ 11.12	\$ -
143	CONCRETE STAIRS	0.00	CUYD	\$ 1,638.84	\$ -
144	CONCRETE SIDEWALK RAMPS	0.00	EACH	\$ 1,463.25	\$ -
145	CONCRETE BUS SHELTER PADS	0.00	EACH	\$ 678.95	\$ -
146	DETECTABLE WARNING SURFACE	0.00	SQFT	\$ 46.82	\$ -
147	CONCRETE VALLEY GUTTER	0.00	FOOT	\$ 35.70	\$ -
148	BRICK PAVERS	0.00	SQFT	\$ 42.73	\$ -
149	CONCRETE PAVERS	0.00	SQFT	\$ 10.83	\$ -
150	PERMEABLE PAVERS	0.00	SQFT	\$ 10.48	\$ -
151	CONCRETE RAILROAD CROSSING	0.00	FOOT	\$ 438.98	\$ -
152	GUARDRAIL, TYPE 2A	0.00	FOOT	\$ 21.36	\$ -
153	GUARDRAIL, TYPE 3	0.00	FOOT	\$ 59.70	\$ -
154	GUARDRAIL ANCHORS, TYPE 1	0.00	EACH	\$ 807.71	\$ -
155	GUARDRAIL END PIECES, TYPE C	0.00	EACH	\$ 131.11	\$ -
156	GUARDRAIL TRANSITION	0.00	EACH	\$ 2,663.12	\$ -
157	GUARDRAIL CONNECTIONS	0.00	EACH	\$ 743.33	\$ -
158	GUARDRAIL TERMINALS, NON-FLARED	0.00	EACH	\$ 2,604.59	\$ -
159	GUARDRAIL TERMINALS, FLARED	0.00	EACH	\$ 2,458.26	\$ -
160	REMOVABLE BOLLARDS	0.00	EACH	\$ 819.42	\$ -
161	CONCRETE BARRIER	0.00	FOOT	\$ 46.82	\$ -
162	IMPACT ATTENUATORS, TYPE CAT-350	0.00	EACH	\$ 5,841.29	\$ -
163	IMPACT ATTENUATORS, TYPE QUAD GUARD	0.00	EACH	\$ 33,174.80	\$ -
164	DELINEATORS TYPE 2	0.00	EACH	\$ 52.68	\$ -
165	DELINEATORS TYPE 4	0.00	EACH	\$ 30.44	\$ -
166	PAVEMENT LEGEND, TYPE B: ARROWS	0.00	EACH	\$ 243.48	\$ -
167	PAVEMENT LEGEND, TYPE B: "ONLY"	0.00	EACH	\$ 362.89	\$ -
168	PAVEMENT LEGEND, TYPE B: BICYCLE LANE SYMBOLS	0.00	EACH	\$ 250.51	\$ -
169	PAVEMENT LINE, TYPE A	0.00	SQFT	\$ 4.33	\$ -
170	PAVEMENT LINE, TYPE B	0.00	SQFT	\$ 6.91	\$ -
171	BI-DIRECTIONAL YELLOW TYPE I MARKERS	0.00	EACH	\$ 4.68	\$ -
172	WHITE TYPE II MARKERS	0.00	EACH	\$ 4.10	\$ -
173	THERMOPLASTIC, NON-PROFILE, 90 MILS, EXTRUDED	0.00	FOOT	\$ 1.11	\$ -
174	PAVEMENT LINE REMOVAL	0.00	FOOT	\$ 0.62	\$ -
175	PAVEMENT LEGEND REMOVAL	2.00	EACH	\$ 59.12	\$ -
176	REMOVE EXISTING SIGNS	0.00	LS*	\$ 128.77	\$ -
177	REMOVE & REINSTALL EXISTING SIGNS	2.00	LS*	\$ 140.00	\$ 280.00
178	SIGN SUPPORT FOOTINGS, BREAKAWAY	9.00	LS*	\$ 102.90	\$ 926.10
179	SIGNAL POLE MOUNTS	0.00	LS*	\$ 585.30	\$ -
180	PIPE SIGN POSTS	9.00	LS*	\$ 117.00	\$ 1,053.00
181	TYPE "B" SIGNS IN PLACE	0.00	SQFT	\$ 36.87	\$ -
182	TYPE "B1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
183	TYPE "C" SIGNS IN PLACE	0.00	SQFT	\$ 29.85	\$ -
184	TYPE "G" SIGNS IN PLACE	0.00	SQFT	\$ 32.78	\$ -
185	TYPE "G1" SIGNS IN PLACE	0.00	SQFT	\$ 30.44	\$ -
186	TYPE "G5" SIGNS IN PLACE	0.00	SQFT	\$ 38.92	\$ -
187	TYPE "R" SIGNS IN PLACE	6.25	SQFT	\$ 27.51	\$ 171.94
188	TYPE "R1" SIGNS IN PLACE	0.00	SQFT	\$ 26.92	\$ -
189	TYPE "W1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
190	TYPE "W2" SIGNS IN PLACE	0.00	SQFT	\$ 25.58	\$ -
191	TYPE "W4" SIGNS IN PLACE	12.00	SQFT	\$ 25.17	\$ 302.04
192	TYPE "W6" SIGNS IN PLACE	0.00	SQFT	\$ 25.17	\$ -
193	TYPE "W7" SIGNS IN PLACE	0.00	SQFT	\$ 27.27	\$ -
194	TYPE "Y1" SIGNS IN PLACE	0.00	SQFT	\$ 24.58	\$ -
195	TYPE "Y2" SIGNS IN PLACE	0.00	SQFT	\$ 21.66	\$ -
196	REMOVAL OF EXISTING ILLUMINATION	0.00	LS*	\$ 362.89	\$ -
197	REMOVAL OF EXISTING TRAFFIC SIGNALS	0.00	LS*	\$ 3,394.74	\$ -
198	POLE FOUNDATIONS	4.00	LS*	\$ 1,404.72	\$ 5,618.88
199	LIGHTING POLES, FIXED BASE	0.00	LS*	\$ 6,438.30	\$ -
200	LIGHTING POLE ARMS	4.00	LS*	\$ 316.06	\$ 1,264.24
201	LUMINAIRES, LAMPS AND BALLASTS	4.00	LS*	\$ 995.01	\$ 3,980.04
202	SWITCHING, CONDUIT AND WIRING	0.00	LS*	\$ 4,155.63	\$ -
203	TRAFFIC SIGNAL INSTALLATION	0.00	LS*	\$ 119,752.38	\$ -
204	TRAFFIC SIGNAL MODIFICATIONS	0.00	LS*	\$ 30,435.60	\$ -
205	INTERCONNECT SYSTEM (UNDERGROUND)	0.00	LS	\$ 36.29	\$ -
206	INTERCONNECT SYSTEM (OVERHEAD)	0.00	LS	\$ 3.51	\$ -

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
207	LOOP DETECTORS INSTALLATION	0.00	LS*	\$ 10,909.99	\$ -
208	TRAFFIC CAMERA INSTALLATIONS, COMPLETE	0.00	LS*	\$ 23,997.30	\$ -
209	PERMANENT SEEDING	1.00	LS	\$ 2,019.29	\$ 2,019.29
210	LAWN SEEDING	0.00	SQYD	\$ 5.27	\$ -
211	TOPSOIL	72.00	CUYD	\$ 32.66	\$ 2,351.52
212	SOIL CONDITIONER	0.00	CUYD	\$ 45.95	\$ -
213	CONIFER TREES, 9 FT HEIGHT	0.00	EACH	\$ 327.77	\$ -
214	DECIDUOUS TREES, 2-1/2 INCH CALIPER	38.00	EACH	\$ 477.27	\$ 18,136.26
215	DECIDUOUS TREES, 3 INCH CALIPER	0.00	EACH	\$ 538.48	\$ -
216	SHRUBS, NO. 1 CONTAINER	0.00	EACH	\$ 11.71	\$ -
217	SHRUBS, NO. 2 CONTAINER	0.00	EACH	\$ 26.92	\$ -
218	SHRUBS, NO. 3 CONTAINER	0.00	EACH	\$ 40.97	\$ -
219	SHRUBS, NO. 5 CONTAINER	0.00	EACH	\$ 46.82	\$ -
220	GROUND COVERS, NO. 1 CONTAINERS	0.00	EACH	\$ 11.71	\$ -
221	GROUND COVERS, 4 INCH POTS	0.00	EACH	\$ 4.39	\$ -
222	BULBS	0.00	EACH	\$ 3.51	\$ -
223	SEEDLING PLANTS	0.00	EACH	\$ 10.54	\$ -
224	ROOTED PLANT CUTTINGS	0.00	EACH	\$ 5.85	\$ -
225	SOD LAWN	0.00	SQYD	\$ 15.45	\$ -
226	BARK MULCH	0.00	CUYD	\$ 35.12	\$ -
227	ROCK MULCH	0.00	TON	\$ 62.92	\$ -
228	PLANT ESTABLISHMENT WORK	1.00	LS*	\$ 10,036.56	\$ 10,036.56
229	ADDITIONAL ESTABLISHMENT PERIOD	1.00	YEAR	\$ 10,036.56	\$ 10,036.56
230	TREE GRATES	0.00	EACH	\$ 1,024.28	\$ -
231	ROOT BARRIER	0.00	FOOT	\$ 13.11	\$ -
232	TREE GRATE FRAMES	0.00	EACH	\$ 421.42	\$ -
233	BORDER EDGING	0.00	FOOT	\$ 12.12	\$ -
234	TYPE 2 FENCE	1,203.00	FOOT	\$ 25.23	\$ 30,351.69
235	CL-6 CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
236	CL-6R CHAIN-LINK FENCE	0.00	FOOT	\$ 18.73	\$ -
237	CL-4R CHAIN-LINK FENCE WITH VINYL CLAD FABRIC	0.00	FOOT	\$ 20.25	\$ -
238	SINGLE MAILBOX SUPPORTS	0.00	EACH	\$ 273.92	\$ -
239	MULTIPLE MAILBOX SUPPORTS	0.00	EACH	\$ 388.81	\$ -
240	MAILBOX CONCRETE COLLARS	3.00	EACH	\$ 120.57	\$ 361.71
241	REMOVE & REINSTALL MAILBOX SUPPORTS	3.00	EACH	\$ 221.00	\$ 663.00
242	BENCHES, TYPE	0.00	EACH	\$ 2,663.12	\$ -
243	BICYCLE RACKS	0.00	EACH	\$ 386.30	\$ -
244	LITTER RECEPTACLES	0.00	EACH	\$ 1,580.31	\$ -
245	IRRIGATION SYSTEM	0.00	LS	\$ -	\$ -
246	4 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 94.23	\$ -
247	6 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 119.99	\$ -
248	8 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 99.85	\$ -
249	12 INCH DUCTILE IRON PIPE	0.00	FOOT	\$ 124.96	\$ -
250	4 INCH GATE VALVE	0.00	EACH	\$ 745.67	\$ -
251	6 INCH GATE VALVE	0.00	EACH	\$ 1,002.03	\$ -
252	8 INCH GATE VALVE	0.00	EACH	\$ 1,258.40	\$ -
253	12 INCH GATE VALVE	0.00	EACH	\$ 1,275.95	\$ -
254	HYDRANT ASSEMBLIES	1.00	EACH	\$ 2,996.74	\$ 2,996.74

* Unit Price Shown is on Each Basis

TOTAL BID ITEMS \$ 747,555.08

***** ANTICIPATED ITEMS *****

NO.	ITEMS OF WORK AND MATERIALS	TOTAL QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	RIGHT OF WAY MONUMENTATION	1.00	LS	\$ 4,250.00	\$ 4,250.00
2	ADJUST WATER FACILITIES - FIRE HYDRANT	1.00	EACH	\$ 12,000.00	\$ 12,000.00
3	ADJUST WATER FACILITIES - METER	7.00	EACH	\$ 1,000.00	\$ 7,000.00
4	STREET LIGHTING - UPGRADE LUMINARIES	0.00	EACH	\$ 350.00	\$ -
5	STREET LIGHTING - INSTALL ARMS AND LUMINARIES	0.00	EACH	\$ 550.00	\$ -
6	CONNECT CONTRACTOR INSTALLED TRAFFIC SIGNAL LOOPS TO CONTROLLER BY BOM	0.00	EACH	\$ 1,000.00	\$ -
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	760.00	SQFT	\$ 12.00	\$ 9,120.00
8	STORMWATER OFFSITE MANAGEMENT FEE	0.00	SQFT	\$ 2.76	\$ -
9	ROCK EXCAVATION	0.00	CUYD	\$ 106.00	\$ -
10	RAILROAD PROTECTION SERVICES (ONE YEAR)	0.00	LS	\$ 100,000.00	\$ -
11	ASPHALT CEMENT ESCALATION	1.00	LS	\$ 1,000.00	\$ 1,000.00
12	FUEL ESCALATION	1.00	LS	\$ 5,000.00	\$ 5,000.00
13	TESTING CONTAMINATED MEDIUM	0.00	LS	\$ 5,000.00	\$ -
14	BOLI FEE PAYMENT (0.1% CONTRACT)	1.00	LS	\$ 747.56	\$ 747.56
15	CONTRACT CONTINGENCY (10% OF BID ITEMS)	1.00	LS	\$ 74,755.51	\$ 74,755.51

TOTAL ANTICIPATED ITEMS \$ 113,873.06

SCHEDULE SUMMARY

BID ITEMS		\$ 747,555.08
CONSTRUCTION CONTINGENCY	5% of Bid Items	\$ 37,377.75
SUBTOTAL		\$ 784,932.83
ANTICIPATED ITEMS		\$ 113,873.06
TOTAL CONSTRUCTION		\$ 898,805.89
PROJECT MANAGEMENT	2.5% of Bid Items	\$ 18,688.88
ROW ACQUISITION		\$ 39,000.00
DESIGN ENGINEERING		\$ 126,300.00
CONSTRUCTION MANAGEMENT		\$ 134,300.00
SUBTOTAL		\$ 318,288.88
PROJECT ENGINEERING & MANAGEMENT OVERHEAD	65.88% of POOT Staff	\$ 164,297.47
TOTAL PROJECT ENGINEERING & MANAGEMENT		\$ 482,586.00
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES		\$ 101,149.93
RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION		\$ 37,700.00
RIGHT-OF-WAY CONTINGENCY (ATTORNEY NEGOTIATIONS)	30% of Land, Improve, and Damages	\$ 30,344.98
TOTAL PROJECT RIGHT-OF-WAY		\$ 169,194.91
PROJECT CONTINGENCY		\$ 146,049.00
TOTAL PROJECT ESTIMATE		\$ 1,696,635.81