## CITY OF PORTLAND, OREGON BUREAU OF TRANSPORTATION PRELIMINARY ENGINEER'S ESTIMATE

N Suttle Rd LID

Date: August 12, 2016

By: Ryan Webb

## PRELIMINARY ENGINEER'S ESTIMATE FOR THE IMPROVEMENT OF NORTH SUTTLE ROAD

#### VALUES IN BLUE ARE PERCENT OF CONTRACT.

###### BID ITEMS ######

				тоты		
1     LS     100     \$272,160,06     \$272,160,06     \$272,160,06     \$272,160,06     \$272,160,06     \$272,160,06     \$272,160,06     \$20,00,00     \$20,216,01     \$22,218,01	NO.	ITEMS OF WORK AND MATERIALS	UNIT	-	UNIT PRICE	TOTAL AMOUNT
2 TEMPORARY PROTECTION & DIRECTION OF TRAFFIC     LS     1.00     \$81:648.02     \$81:648.02       3 TEMPORARY SIGNS     SOFT     1000:00     \$20:000.00     \$20:00:00     \$20:00:00     \$20:00:00     \$20:00:00     \$20:00:00:00     \$20:00:00:00:00:00:00:00:00:00:00:00:00:0	1		LS	1.00	\$272,160.06	\$272.160.06
3 TEMPORARY SIGNS     SOFT     1000.00     \$20.00.0     \$20.00.0       15 TEMPORARY BARRICADES, TYPE III     EACH     20.00     \$150.00     \$30.00.00       19 FLAGGERS     HOUR     1.400.00     \$48.60     \$50.00.00     \$30.00.00       23 EROSIGN CONTROL     LS     1.00     \$27.216.01     \$27.216.01     \$27.216.01       23 EROSIGN CONTROL PLAN     LS     1.00     \$27.216.01     \$27.216.01     \$27.216.01       31 CONTAMINATED MEDIA DISPOSAL     CUYD     400.00     \$163.00     \$66.200.00       43 CREMOVAL OF STRUCTURES & 058TRUCTIONS     LS     1.00     \$10.08.84.02     \$100.840.02     \$200.126.2       45 CLEARING AND GRUBBING     LS     1.00     \$10.200.00     \$31.2     \$40.02     \$50.820.00       51 21 INCH SUBGRADE STABILIZATION     SOYD     1.200.00     \$31.2.66     \$40.02     \$50.000.00     \$51.2     \$51.200     \$53.000.00     \$51.200     \$53.000.00     \$51.200     \$53.000.00     \$51.200     \$53.000.00     \$53.000.00     \$53.000.00     \$51.200     \$53.000.00     \$53.000.00     \$53.000.00     \$53.000						
HPUR     1.440.00     \$48.50     \$69.84.00       23 EROSING CONTROL     LS     1.00     \$27.216.01     \$27.716.00     \$31.01     \$10.816.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.84.02     \$10.86.86.02     \$10.80.81.01     \$10.80.01 </td <td></td> <td></td> <td>SQFT</td> <td>1,000.00</td> <td></td> <td></td>			SQFT	1,000.00		
123     EROSION CONTROL     1S     1.00     \$27,216.01	5	TEMPORARY BARRICADES, TYPE III	EACH	20.00	\$150.00	\$3,000.00
29     INLET PROTECTION     EACH     20     S88.00     \$1,760.00       30     POLLUTION CONTROL PLAN     LS     1.00     \$2,721.60     \$2,70.761.62     \$2,70.761.62     \$2,70.761.62     \$2,70.761.62     \$2,70.761.62     \$2,70.761.62     \$2,70.761.62     \$2,80.00     \$2,8	19	FLAGGERS	HOUR	1,440.00	\$48.50	\$69,840.00
30     POLLUTION CONTROL PLAN     LS     1     0     \$2,721.60     \$2,721.60       31     CONTAMINATED MEDIAD DISPOSAL     CUYD     400.00     \$163.00     \$656.20       43     ICONTAMINATED MEDIA DISPOSAL     LS     1.00     \$108.864.02     \$108.864.02       44     ICLEARING AND GRUBBING     LS     1.00     \$70.761.62     \$70.761.62       49     GENERAL EXCAVATION     SQVD     12.000.00     \$30.17     \$36.204.00       53     SUBGRADE STABILIZATION     SQVD     12.000.00     \$31.25     \$15.000.00       65     SUBGRADE CEOTEXTILE     SQVD     12.000.00     \$31.26     \$50.000.00       65     DEWATERING     LS     1.00     \$50.000.00     \$50.000.00       73     TORTAHINATER PLANTERS     SQFT     1.730.00     \$45.00     \$71.850.00       81     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D, COMPLETE     FOOT     2.60.00     \$140.00     \$91.00.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE-D, COMPLETE     FOOT     2.60.00     \$160.00     \$91.00.00	23	EROSION CONTROL	LS	1.00	\$27,216.01	\$27,216.01
11     CONTAMINATED MEDIA DISPOSAL     CUVD     40000     \$163.00     \$65.200.00       43     REMOVAL OF STRUCTIONES & DBSTRUCTIONS     LS     1.00     \$170.761.62     \$108.864.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.064.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.060.02     \$108.000.02     \$108.000.02 </td <td>29</td> <td>INLET PROTECTION</td> <td>EACH</td> <td>20.00</td> <td></td> <td>\$1,760.00</td>	29	INLET PROTECTION	EACH	20.00		\$1,760.00
43     EEMOVAL OF STRUCTURES & OBSTRUCTIONS     LS     1.00     \$108.864.02	30	POLLUTION CONTROL PLAN	LS	1.00	\$2,721.60	\$2,721.60
45     CLEARING AND GRUBBING     LS     1.00     \$70,761.62     \$77,863.64	31	CONTAMINATED MEDIA DISPOSAL	CUYD	400.00	\$163.00	\$65,200.00
49     GENERAL EXAVATION     CUYD     5.717.00     \$49.00     \$228.0133.00       53     12 INCH SUBGRADE STABLIZATION     SQYD     1,200.00     \$30.17     \$36.204.00       65     SUBGRADE GEOTEXTILE     SQYD     1,200.00     \$1.25     \$15.00.00       65     VIDEO INSPECTION OF SEWERS, MAINLINE     FOOT     2,822.00     \$3.30     \$9.312.80       69     DEWATERING     LS     1.00     \$50.00.00     \$50.00.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     6.5.00     \$140.00     \$9.10.00       81     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     6.5.00     \$140.00     \$9.920.00       80     OUTALL     EACH     1.00     \$10.00.00     \$10.00.00     \$10.00.00     \$10.00.00     \$10.00.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.500.00     \$10.5	43	REMOVAL OF STRUCTURES & OBSTRUCTIONS	LS	1.00	\$108,864.02	\$108,864.02
55     12 INCH SUBGRADE STABILIZATION     SQYD     1,200.00     \$3.017     \$3.62.04.00       68     SUBGRADE GEOTEXTILE     SQYD     12,000.00     \$1.25     \$15.000.00       69     DEWATERING     LS     1.00     \$50.000.00     \$50.000.00       72     STORMWATER PLANTERS     SQFT     1.73.00     \$45.00     \$77.7850.00       72     STORMWATER PLANTERS     SQFT     1.73.00     \$44.00     \$340.000     \$340.600.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$140.00     \$9.920.00       85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$160.00     \$9.920.00       85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$10.000.00 <td>45</td> <td>CLEARING AND GRUBBING</td> <td>LS</td> <td>1.00</td> <td>\$70,761.62</td> <td>\$70,761.62</td>	45	CLEARING AND GRUBBING	LS	1.00	\$70,761.62	\$70,761.62
58     SUBGRADE GEOTEXTILE     SQYD     12,000.00     \$125     \$15,000.00       66     VIDEO INSPECTION OF SEWERS, MAINLINE     FOOT     2,822.00     \$3.30     \$9,312.60       68     DEWATERING     LS     1.00     \$50,000.00     \$50,000.00       72     STORMWATER PLANTERS     SQFT     1,730.00     \$45.00     \$77,850.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     66.00     \$140.00     \$9,100.00       81     18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     66.00     \$140.00     \$9,20.00       87     OUTFALL     EACH     1.00     \$10,000.00	49	GENERAL EXCAVATION	CUYD	5,717.00	\$49.00	\$280,133.00
66     IVIDEO INSPECTION OF SEWERS, MAINLINE     FOOT     2,822.00     \$3.30     59,312.60       69     DEWATERING     LS     1.00     \$50,000.00     \$50,000.00       72     STORMWATER PLANTERS     SQFT     1,73.00     \$\$45.00     \$534.000.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$\$140.00     \$\$34.000.00       84     18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$\$140.00     \$\$9,920.00       86     CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH     EACH     1.00     \$\$1,800.00     \$\$13.00.00     \$\$10.000     \$\$10.000.00     \$\$10.000.00     \$\$10.000.00     \$\$10.000.00     \$\$10.000.00	53	12 INCH SUBGRADE STABILIZATION	SQYD	1,200.00	\$30.17	\$36,204.00
66     DEWATERING     LS     1.00     \$50.000.00     \$50.000.00       72     STORMWATER PLANTERS     SQFT     1.730.00     \$45.00     \$577.850.00       83     12     INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$140.00     \$9.900.00       86     24     INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$140.00     \$9.920.00       87     OUTFALL     EACH     1.00     \$10.000.00     \$12.00     \$10.000.00     \$10.000.00     \$10.000.00     \$10.000.00     \$10.000.00     \$10.000.00     \$10.000.00 <td>58</td> <td>SUBGRADE GEOTEXTILE</td> <td>SQYD</td> <td>12,000.00</td> <td>\$1.25</td> <td>\$15,000.00</td>	58	SUBGRADE GEOTEXTILE	SQYD	12,000.00	\$1.25	\$15,000.00
72     STORMWATER PLANTERS     SQFT     1,730.00     \$45.00     \$77,850.00       83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     6.5.00     \$140.00     \$\$9,920.00       84     18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$160.00     \$\$9,920.00       85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$160.00     \$\$9,920.00       86     CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH     EACH     1.00     \$10,000.00     \$10,000.00     \$18,000.00     \$18,000.00     \$18,000.00     \$160,000     \$35,200.00       100     CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH     EACH     1.00     \$1,800.00     \$18,000.00	65	VIDEO INSPECTION OF SEWERS, MAINLINE	FOOT	2,822.00	\$3.30	\$9,312.60
83     12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     2,620.00     \$130.00     \$340,600.00       84     18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     66.00     \$140.00     \$9,900.00       85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$160.00     \$9,920.00       87     OUTFALL     EACH     1.00     \$10,000.00 <td< td=""><td>69</td><td>DEWATERING</td><td>LS</td><td>1.00</td><td>\$50,000.00</td><td>\$50,000.00</td></td<>	69	DEWATERING	LS	1.00	\$50,000.00	\$50,000.00
84     18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     65.00     \$140.00     \$9,100.00       85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$160.00     \$9,920.00       87     OUTFALL     EACH     1.00     \$10,000.00     \$10,000.00     \$10,000.00     \$10,000.00       100     CONCRETE INLETS, TYPE G-2     EACH     1.00     \$11,800.00     \$11,800.00     \$11,800.00     \$11,800.00     \$14,000	72	STORMWATER PLANTERS	SQFT	1,730.00	\$45.00	\$77,850.00
85     24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE     FOOT     62.00     \$10,000.00     \$9,920.00       87     OUTFALL     EACH     1.00     \$10,000.00     \$10,500.00     \$10,500.00     \$10,500.00     \$10,500.00     \$10,500.00     \$10,500.00     \$147,600.00     \$147,600.00     \$147,600.00     \$147,600.00     \$147,600.00     \$147,600.00     \$147,600.00     \$10,300.00     \$33.03     \$99,900.00     \$10,200.00     \$12,000.00     \$32.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$12,900.00     \$32.00     \$10,304.00     \$12,900.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00     \$10,304.00 <td>83</td> <td>12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE</td> <td>FOOT</td> <td>2,620.00</td> <td>\$130.00</td> <td>\$340,600.00</td>	83	12 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	2,620.00	\$130.00	\$340,600.00
87     OUTFALL     EACH     1.00     \$10,000.00     \$10,000.00       88     CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH     EACH     8.00     \$4,400.00     \$33,200.00       100     CONCRETE INLETS, TYPE 6-2     EACH     1.00     \$11,800.00     \$11,800.00       107     CONCRETE INLETS, TYPE BEEHIVE     EACH     7.00     \$11,500.00     \$11,500.00       146     AGGREGATE BASE, 8 INCH THICK     SQYD     12,000.00     \$12,300     \$147,600.00       149     LEVEL     TON     6,300.00     \$89.50     \$563,850.00       163     CONCRETE DRIVEWAYS, REINFORCED     SQFT     11,240.00     \$92.0     \$103,040.00       170     CONCRETE MALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     2,303.00     \$11,900.00     \$437,570.00       210     PAVEMENT LEGEND, TYPE B-B: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       216     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$2,500.00     \$2,500.00     \$2,	84	18 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	65.00	\$140.00	\$9,100.00
88     CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH     EACH     8.00     \$4,400.00     \$35,200.00       100     CONCRETE INLETS, TYPE G-2     EACH     1.00     \$1,800.00     \$1,800.00       107     CONCRETE INLETS, TYPE BEEHIVE     EACH     7.00     \$1,500.00     \$107,600.00       144     AGGREGATE BASE, 8 INCH THICK     SQYD     12,000.00     \$12.30     \$147,600.00       149     LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE     TON     6,300.00     \$89.50     \$5663,850.00       163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$33.03     \$99.909.00       169     CONCRETE DRIVEWAYS, REINFORCED     SQFT     2,700.00     \$7.40     \$119,880.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       171     CONCRETE WALKS     SQFT     2,700.00     \$14.40     \$4.200.00       170     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     23,030.00     \$14.40     \$4.200.00       170     MONOLITHIC CURB GUTTER AND SIGENS     LS     1.00     \$2.200.00     \$2.000.00	85	24 INCH PIPE, HDPE ASTM F714 SDR 26 BEDDING TYPE:D, COMPLETE	FOOT	62.00	\$160.00	\$9,920.00
100     CONCRETE INLETS, TYPE 6-2     EACH     1.00     \$1,800.00     \$1,800.00       107     CONCRETE INLETS, TYPE BEEHIVE     EACH     7.00     \$1,500.00     \$10,500.00       146     AGGREGATE BASE, 8 INCH THICK     SQYD     12,000.00     \$12.30     \$147,600.00       149     LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE     TON     6,300.00     \$89.50     \$5563,850.00       163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$33.03     \$99.090.00       169     CONCRETE DRIVEWAYS, REINFORCED     SQFT     2,700.00     \$7.40     \$19.980.00       170     CONCRETE WALKS     SQFT     2,303.00     \$19.00     \$437,570.00       210     FHERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$1.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1.800.00       211     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       217     SIGN SUPPORTS     LS     1.00     \$2,500.00     \$2,500.00 <	87	OUTFALL	EACH	1.00	\$10,000.00	\$10,000.00
107     CONCRETE INLETS, TYPE BEEHIVE     EACH     7.00     \$1,500.00     \$10,500.00       146     AGGREGATE BASE, 8 INCH THICK     SQYD     12,000.00     \$12.30     \$147,600.00       149     LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE     TON     6,300.00     \$89.50     \$563,850.00       163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$33.03     \$99.090.00       163     CONCRETE WALKS     SQFT     11,240.00     \$9.20     \$103,408.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONDUITHIC CURB GUTTER AND SIDEWALKS     SQFT     2,000.00     \$14.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RC COSSING     EACH     6.00     \$300.00     \$1.40     \$4,200.00       211     PAVEMENT LEGEND, TYPE B-HS: RC COSSING     LS     1.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00	88	CONCRETE MANHOLES, 48 INCH, 0-8 FT DEPTH	EACH	8.00	\$4,400.00	\$35,200.00
146     AGGREGATE BASE, 8 INCH THICK     SQYD     12,000.00     \$12.30     \$147,600.00       149     LEVEL 3, 12 INCH DENSE, MWMAC MIXTURE     TON     6,300.00     \$89.50     \$563,850.00       163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$83.03     \$99.90.00       169     CONCRETE DINVEWAYS, REINFORCED     SQFT     11,240.00     \$9.20     \$103,408.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19.980.00       171     CONCRETE MALKS     SQFT     2,700.00     \$14.0     \$44,200.00       210     PAVEMENT LEGEND, TYPE B-IS: RCROSSING     EACH     6.00     \$300.00     \$14.800.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,000.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,500.00       226     TYPE "N'SIGNS IN PLACE     SQFT     30.00     \$2,000.00     \$2,500.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     30.00     \$20,000.00     \$20,000.00	100	CONCRETE INLETS, TYPE G-2	EACH	1.00	\$1,800.00	\$1,800.00
149     LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE     TON     6,300.00     \$89.50     \$563,850.00       163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$33.03     \$99,990.00       169     CONCRETE DRIVEWAYS, REINFORCED     SQFT     11,240.00     \$9.20     \$103,408.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     23,030.00     \$19.00     \$437,570.00       206     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$14.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       213     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,000.00     \$2,500.00       219     PIPE SIGN SUPPORTS     LS     1.00     \$2,000.00     \$2,500.00       226     TYPE "Y 12" SIGNS IN PLACE     SQFT     60.00     \$22,500.00     \$22,000.00       230     LIGHTING POLE ARMS     LS     1.00     \$20,000.00     \$20,000.00	107	CONCRETE INLETS, TYPE BEEHIVE	EACH	7.00	\$1,500.00	\$10,500.00
163     CONCRETE CURBS, CURB AND GUTTER     FOOT     3,000.00     \$33.03     \$99,090.00       169     CONCRETE DRIVEWAYS, REINFORCED     SQFT     11,240.00     \$9.20     \$103,408.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     23,030.00     \$19.00     \$437,570.00       206     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$14.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,500.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       219     PIPE SIGN SUPPORTS     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "N'12" SIGNS IN PLACE     SQFT     60.00     \$25.60     \$1,536.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$20,000.00     \$20,000.00	146	AGGREGATE BASE, 8 INCH THICK	SQYD	12,000.00	\$12.30	\$147,600.00
169     CONCRETE DRIVEWAYS, REINFORCED     SQFT     11,240.00     \$9.20     \$103,408.00       170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     23,030.00     \$119.00     \$437,570.00       206     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$14.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$12,000.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,500.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "W12" SIGNS IN PLACE     SQFT     30.00     \$22,500.00     \$22,500.00       238     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00     \$20,000.00     \$20,000.00     \$20,000.00     \$20,000.00     \$20,000.00     \$20,000.0	149	LEVEL 3, 1/2 INCH DENSE, MWMAC MIXTURE	TON	6,300.00	\$89.50	\$563,850.00
170     CONCRETE WALKS     SQFT     2,700.00     \$7.40     \$19,980.00       172     MONOLITHIC CURB GUTTER AND SIDEWALKS     SQFT     23,030.00     \$19.00     \$437,570.00       206     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$1.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,500.00     \$2,500.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "R" SIGNS IN PLACE     SQFT     30.00     \$2,500.00     \$2,500.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     30.00     \$20,000.00     \$20,000.00       234     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00       240     LIGHTING POLE ARMS     LS     1.00     \$2,000.00     \$2,000.00 <t< td=""><td>163</td><td>CONCRETE CURBS, CURB AND GUTTER</td><td>FOOT</td><td>3,000.00</td><td>\$33.03</td><td>\$99,090.00</td></t<>	163	CONCRETE CURBS, CURB AND GUTTER	FOOT	3,000.00	\$33.03	\$99,090.00
172   MONOLITHIC CURB GUTTER AND SIDEWALKS   SQFT   23,030.00   \$19.00   \$437,570.00     206   THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED   FOOT   3,000.00   \$1.40   \$4,200.00     210   PAVEMENT LEGEND, TYPE B-HS: RR CROSSING   EACH   6.00   \$330.00   \$1,800.00     216   REMOVE & REINSTALL EXISTING SIGNS   LS   1.00   \$2,000.00   \$2,000.00     217   SIGN SUPPORT FOOTINGS, BREAKAWAY   LS   1.00   \$2,500.00   \$2,500.00     219   PIPE SIGN SUPPORTS   LS   1.00   \$2,500.00   \$2,500.00     226   TYPE "R" SIGNS IN PLACE   SQFT   30.00   \$22,500   \$2,500.00     233   TYPE "W12" SIGNS IN PLACE   SQFT   60.00   \$22,600   \$22,000.00     238   POLE FOUNDATIONS   LS   1.00   \$20,000.00   \$20,000.00     234   LIGHTING POLES, FIXED BASE   LS   1.00   \$20,000.00   \$20,000.00     234   LIGHTING POLE ARMS   LS   1.00   \$20,000.00   \$20,000.00   \$20,000.00     240   LIGHTING POLE ARMS   LS   1.00   \$40,000	169	CONCRETE DRIVEWAYS, REINFORCED	SQFT	11,240.00	\$9.20	\$103,408.00
206     THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED     FOOT     3,000.00     \$1.40     \$4,200.00       210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,000.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       219     PIPE SIGN SUPPORTS     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "R" SIGNS IN PLACE     SQFT     30.00     \$20,90     \$627.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$22,000.00     \$20,000.00       233     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLE ARMS     LS     1.00     \$20,000.00     \$20,000.00       240     LIGHTING POLE ARMS     LS     1.00     \$20,000.00     \$20,000.00       241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$40,000.00     \$20,000.00     \$20,000.00	170	CONCRETE WALKS	SQFT	2,700.00	\$7.40	\$19,980.00
210     PAVEMENT LEGEND, TYPE B-HS: RR CROSSING     EACH     6.00     \$300.00     \$1,800.00       216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,000.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       219     PIPE SIGN SUPPORTS     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "R" SIGNS IN PLACE     SQFT     30.00     \$20.90     \$627.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$25.60     \$1,536.00       238     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLE ARMS     ND BALLASTS     LS     1.00     \$20,000.00     \$20,000.00       241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$40,000.00     \$40,000.00       242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$40,000.00     \$40,000.00     \$40,000.00	172	MONOLITHIC CURB GUTTER AND SIDEWALKS	SQFT	23,030.00	\$19.00	\$437,570.00
216     REMOVE & REINSTALL EXISTING SIGNS     LS     1.00     \$2,000.00     \$2,000.00       217     SIGN SUPPORT FOOTINGS, BREAKAWAY     LS     1.00     \$2,500.00     \$2,500.00       219     PIPE SIGN SUPPORTS     LS     1.00     \$2,500.00     \$2,500.00       226     TYPE "R" SIGNS IN PLACE     SQFT     30.00     \$20.90     \$627.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$25.60     \$1,536.00       238     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00       240     LIGHTING POLE ARMS     LS     1.00     \$20,000.00     \$20,000.00       241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$40,000.00     \$40,000.00       242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$40,000.00     \$40,000.00       245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00       252     TOPSOIL	206	THERMOPLASTIC, NON-PROFILE, 120 MILS, EXTRUDED	FOOT	3,000.00	\$1.40	\$4,200.00
217   SIGN SUPPORT FOOTINGS, BREAKAWAY   LS   1.00   \$2,500.00   \$2,500.00     219   PIPE SIGN SUPPORTS   LS   1.00   \$2,500.00   \$2,500.00     226   TYPE "R" SIGNS IN PLACE   SQFT   30.00   \$20.90   \$627.00     233   TYPE "W12" SIGNS IN PLACE   SQFT   60.00   \$25.60   \$1,536.00     238   POLE FOUNDATIONS   LS   1.00   \$20,000.00   \$20,000.00     239   LIGHTING POLES, FIXED BASE   LS   1.00   \$20,000.00   \$20,000.00     240   LIGHTING POLE ARMS   LS   1.00   \$20,000.00   \$20,000.00     241   LUMINAIRES, LAMPS AND BALLASTS   LS   1.00   \$18,000.00   \$20,000.00     242   SWITCHING, CONDUIT AND WIRING   LS   1.00   \$40,000.00   \$40,000.00     245   FLASHING BEACON INSTALLATION   LS   1.00   \$40,000.00   \$40,000.00     252   TOPSOIL   CUYD   320.00   \$60.00   \$19,200.00     255   DECIDUOUS TREES, 2-1/2 INCH CALIPER   EACH   120.00   \$822.00   \$98,640.00     269	210	PAVEMENT LEGEND, TYPE B-HS: RR CROSSING	EACH	6.00	\$300.00	\$1,800.00
219   PIPE SIGN SUPPORTS   LS   1.00   \$2,500.00     226   TYPE "R" SIGNS IN PLACE   SQFT   30.00   \$20.90   \$627.00     233   TYPE "W12" SIGNS IN PLACE   SQFT   60.00   \$25.60   \$1,536.00     238   POLE FOUNDATIONS   LS   1.00   \$20,000.00   \$20,000.00     239   LIGHTING POLES, FIXED BASE   LS   1.00   \$20,000.00   \$20,000.00     240   LIGHTING POLE ARMS   LS   1.00   \$20,000.00   \$20,000.00     241   LUMINAIRES, LAMPS AND BALLASTS   LS   1.00   \$2,000.00   \$2,000.00     242   SWITCHING, CONDUIT AND WIRING   LS   1.00   \$40,000.00   \$40,000.00     245   FLASHING BEACON INSTALLATION   LS   1.00   \$40,000.00   \$40,000.00     252   TOPSOIL   CUYD   320.00   \$60.00   \$19,200.00     255   DECIDUOUS TREES, 2-1/2 INCH CALIPER   EACH   120.00   \$822.00   \$98,640.00     269   ADDITIONAL ESTABLISHMENT PERIOD   YEAR   120.00   \$264.00   \$31,680.00	216	REMOVE & REINSTALL EXISTING SIGNS	LS	1.00	\$2,000.00	\$2,000.00
226     TYPE "R" SIGNS IN PLACE     SQFT     30.00     \$20.90     \$627.00       233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$25.60     \$1,536.00       238     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00       240     LIGHTING POLE ARMS     LS     1.00     \$20,000.00     \$20,000.00       241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$2,000.00     \$2,000.00       242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$40,000.00     \$40,000.00       245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00       252     TOPSOIL     CUYD     320.00     \$60.00     \$19,200.00       255     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00       269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$31,680.00	217	SIGN SUPPORT FOOTINGS, BREAKAWAY	LS	1.00	\$2,500.00	\$2,500.00
233     TYPE "W12" SIGNS IN PLACE     SQFT     60.00     \$25.60     \$1,536.00       238     POLE FOUNDATIONS     LS     1.00     \$20,000.00     \$20,000.00       239     LIGHTING POLES, FIXED BASE     LS     1.00     \$20,000.00     \$20,000.00       240     LIGHTING POLE ARMS     LS     1.00     \$18,000.00     \$18,000.00       241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$2,000.00     \$2,000.00       242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$2,000.00     \$2,000.00       245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00       245     TOPSOIL     CUYD     320.00     \$60.00     \$19,200.00       250     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00       269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$31,680.00	219	PIPE SIGN SUPPORTS	LS	1.00	\$2,500.00	\$2,500.00
238     POLE FOUNDATIONS     LS     1.00     \$20,000.00	226	TYPE "R" SIGNS IN PLACE	SQFT	30.00	\$20.90	\$627.00
239   LIGHTING POLES, FIXED BASE   LS   1.00   \$20,000.00   \$20,000.00     240   LIGHTING POLE ARMS   LS   1.00   \$18,000.00   \$18,000.00     241   LUMINAIRES, LAMPS AND BALLASTS   LS   1.00   \$2,000.00   \$2,000.00     242   SWITCHING, CONDUIT AND WIRING   LS   1.00   \$40,000.00   \$40,000.00     245   FLASHING BEACON INSTALLATION   LS   1.00   \$40,000.00   \$40,000.00     252   TOPSOIL   CUYD   320.00   \$60.00   \$19,200.00     255   DECIDUOUS TREES, 2-1/2 INCH CALIPER   EACH   120.00   \$822.00   \$98,640.00     269   ADDITIONAL ESTABLISHMENT PERIOD   YEAR   120.00   \$264.00   \$31,680.00	233	TYPE "W12" SIGNS IN PLACE	SQFT	60.00	\$25.60	\$1,536.00
240     LIGHTING POLE ARMS     LS     1.00     \$18,000.00     \$18,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$2,000.00     \$40,000.00<	238	POLE FOUNDATIONS	LS	1.00	\$20,000.00	\$20,000.00
241     LUMINAIRES, LAMPS AND BALLASTS     LS     1.00     \$2,000.00     \$2,000.00       242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$40,000.00     \$40,000.00       245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00       252     TOPSOIL     CUYD     320.00     \$60.00     \$19,200.00       255     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00       269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$31,680.00	239	LIGHTING POLES, FIXED BASE	LS	1.00	\$20,000.00	\$20,000.00
242     SWITCHING, CONDUIT AND WIRING     LS     1.00     \$40,000.0	240	LIGHTING POLE ARMS	LS	1.00	\$18,000.00	\$18,000.00
245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00     \$252     TOPSOIL     CUYD     320.00     \$60.00     \$19,200.00     \$252     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00     \$269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$264.00     \$31,680.00     <					. ,	. ,
245     FLASHING BEACON INSTALLATION     LS     1.00     \$40,000.00     \$40,000.00     \$252     TOPSOIL     CUYD     320.00     \$60.00     \$19,200.00     \$252     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00     \$269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$264.00     \$31,680.00     <	242	SWITCHING, CONDUIT AND WIRING	LS	1.00	\$40,000.00	\$40,000.00
255     DECIDUOUS TREES, 2-1/2 INCH CALIPER     EACH     120.00     \$822.00     \$98,640.00       269     ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$264.00     \$31,680.00	245	FLASHING BEACON INSTALLATION		1.00	\$40,000.00	\$40,000.00
269 ADDITIONAL ESTABLISHMENT PERIOD     YEAR     120.00     \$264.00     \$31,680.00			CUYD	320.00	\$60.00	\$19,200.00
	255	DECIDUOUS TREES, 2-1/2 INCH CALIPER	EACH	120.00	\$822.00	\$98,640.00
	269	ADDITIONAL ESTABLISHMENT PERIOD	YEAR	120.00	\$264.00	\$31,680.00
101AL did 11 Eivis \$3,284,971.93	TOT	AL BID ITEMS		· · ·		\$3,284,971.93

###### ANTICIPATED ITEMS ######

# EXHIBIT E

			TOTAL		
NO.	ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
NO.	ITEMS OF WORK AND MATERIALS	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
2	RELOCATE WATER FACILITIES - FIRE HYDRANT	EACH	2.00	\$20,000.00	\$40,000.00
3	RELOCATE WATER FACILITIES - METER	EACH	12.00	\$6,000.00	\$72,000.00
7	STORMWATER PLANTINGS AND PLANT ESTABLISHMENT	SQFT	1,557.00	\$20.00	\$31,140.00
9	RAILROAD TRACK ACCESS PANELS	SQFT	9000.00	\$20.00	\$180,000.00
10	RAILROAD FLAGGER	HR	500.00	\$100.00	\$50,000.00
13	TESTING CONTAMINATED MEDIA	LS	1.00	\$5,000.00	\$5,000.00
14	BOLI FEE PAYMENT	LS	1.00	\$3,284.97	\$3,284.97
15	CONTRACT CONTINGENCY (REQUIREMENT TO ACCEPT BIDS UP TO 10% OVER ESTIMATE)	LS	1.00	\$328,497.19	\$328,497.19

TOTAL ANTICIPATED ITEMS

# \$709,922.16

#### SCHEDULE SUMMARY

BID ITEMS CONSTRUCTION CONTINGENCY SUBTOTAL		5% of Bid Items*	\$3,284,971.93 \$164,249.00 \$3,449,220.93
ANTICIPATED ITEMS		=	\$709,922.16
TOTAL CONSTRUCTION			\$4,159,143.09
PROJECT MANAGEMENT DESIGN ENGINEERING (INCLUDING ENVIRONMENTAL PERMITS) CONSTRUCTION MANAGEMENT SUBTOTAL		3% of Bid Items     20% of Bid Items     15% of Bid Items	\$98,549.16 \$806,994.00 \$492,746.00 \$1,398,289.16
PROJECT ENGINEERING & MANAGEMENT OVERHEAD		79.27% of PM, Eng, and CM	\$1,108,423.82
TOTAL PROJECT ENGINEERING & MANAGEMENT			\$2,506,712.97
RIGHT-OF-WAY LAND, IMPROVEMENTS, AND DAMAGES RIGHT-OF-WAY APPRAISAL, TITLE INSURANCE, AND NEGOTIATION		of Land, Improve, and	\$328,939.00 \$37,350.00
RIGHT-OF-WAY CONTINGENCY		30% Damages	\$98,681.70
TOTAL PROJECT RIGHT-OF-WAY	X		\$464,970.70
	Years	Inflation	<b>#000 745 00</b>
INFLATION RATE ON CONTRACT	2	4.5% of Construction	\$382,745.00
INFLATION RATE ON PERSONNEL ESTIMATE CONTINGENCY FOR UNDEFINED OR CHANGE IN SCOPE	2	2.0% of Eng & Mgmt 25% of Const, Eng & Mgmt, and Inflation	\$101,271.00 \$1,787,468.02
TOTAL PROJECT CONTINGENCY			\$2,271,484.02

# TOTAL PROJECT ESTIMATE

\$9,402,310.79