

**THE COMMONWEALTH OF MASSACHUSETTS
MASSACHUSETTS DEPARTMENT
of TRANSPORTATION**

**ROADWAY IMPROVEMENTS
IN THE TOWN OF
BELMONT / WATERTOWN
MIDDLESEX COUNTY**

**TRAPELO ROAD & BELMONT ROAD
FILE # 604688**

ENGINEER'S QUANTITY ESTIMATE

(CALCULATION BOOK # XXXXX)

**100% SUBMISSION
MARCH 2012**

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100.01

SCHEDULE OF OPERATIONS FIXED
PRICE 82,500

LS

FIXED PRICE 1 LS

TOTAL: 1 LS

SAY	1	LS
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102.1

TREE TRIMMING

FT

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>(LF)</u>
	<u>START</u>	<u>END</u>		<u>LENGTH</u>
BELMONT ST CONTINGENCY	112+84.09	114+43.91	Lt.	159.7
				140.0
TOTAL:				299.7 FT

SAY	300	FT
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102.3

SHRUB TRIMMING

FT

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>STA.</u>	<u>SIDE</u>	<u>QUANT.</u>			
TRAPELO ROAD CONTINGENCY	91+06.00	Rt	91+37.00	Rt	32			
					50 <u>32</u> FT			
					<table border="1"><tr><td>SAY</td><td>35</td><td>FT</td></tr></table>	SAY	35	FT
SAY	35	FT						

102.5

ROADSIDE TREE PROTECTION

EA

STREET	STA.	SIDE	(IN) SIZE	QUANT.
MILL STREET	00+52.00	Lt	18.0	1.0
MILL STREET	00+60.00	Rt	12.0	1.0
MILL STREET	00+72.00	Rt	12.0	1.0
MILL STREET	00+99.00	Lt	36.0	1.0
TRAPELO ROAD	19+75.00	Lt	12.0	1.0
TRAPELO ROAD	19+91.00	Lt	12.0	1.0
TRAPELO ROAD	20+18.00	Lt	12.0	1.0
TRAPELO ROAD	20+35.00	Lt	10.0	1.0
TRAPELO ROAD	20+91.00	Lt	24.0	1.0
TRAPELO ROAD	21+67.00	Lt	20.0	1.0
TRAPELO ROAD	21+81.00	Lt	20.0	1.0
TRAPELO ROAD	33+55.00	Lt	14.0	1.0
TRAPELO ROAD	33+77.00	Lt	10.0	1.0
TRAPELO ROAD	34+03.00	Lt	12.0	1.0
TRAPELO ROAD	35+08.00	Lt	10.0	1.0
TRAPELO ROAD	35+35.00	Lt	10.0	1.0
TRAPELO ROAD	36+87.00	Rt	4.0	1.0
TRAPELO ROAD	37+62.00	Rt	8.0	1.0
TRAPELO ROAD	37+73.00	Rt	10.0	1.0
LEXINGTON STREET	02+72.00	Lt	8.0	1.0
LEXINGTON STREET	02+91.00	Lt	6.0	1.0
LEXINGTON STREET	03+05.00	Lt	4.0	1.0
CHURCH STREET	00+58.00	Lt	8.0	1.0
CHURCH STREET	01+25.00	Lt	8.0	1.0
CHURCH STREET	01+88.00	Lt	8.0	1.0
SYCAMORE STREET	-	Rt	8.0	1.0
TRAPELO ROAD	48+95.00	Lt	20.0	1.0
TRAPELO ROAD	66+77.00	Rt	3.0	1.0
TRAPELO ROAD	67+12.00	Rt	3.0	1.0
TRAPELO ROAD	67+47.00	Rt	3.0	1.0
TRAPELO ROAD	67+82.00	Rt	3.0	1.0
TRAPELO ROAD	69+83.00	Lt	20.0	1.0
TRAPELO ROAD	69+86.00	Lt	16.0	1.0
TRAPELO ROAD	72+25.00	Rt	20.0	1.0
TRAPELO ROAD	72+57.00	Rt	12.0	1.0
TRAPELO ROAD	73+09.00	Lt	10.0	1.0
TRAPELO ROAD	74+00.00	Rt	12.0	1.0
TRAPELO ROAD	74+67.00	Lt	12.0	1.0
TRAPELO ROAD	75+64.00	Lt	10.0	1.0
TRAPELO ROAD	76+13.00	Lt	16.0	1.0
TRAPELO ROAD	76+39.00	Rt	10.0	1.0
TRAPELO ROAD	76+81.00	Lt	16.0	1.0
TRAPELO ROAD	77+25.00	Rt	14.0	1.0
TRAPELO ROAD	77+80.00	Lt	24.0	1.0
TRAPELO ROAD	78+06.00	Lt	18.0	1.0
TRAPELO ROAD	78+47.00	Rt	6.0	1.0
TRAPELO ROAD	79+15.00	Lt	12.0	1.0
TRAPELO ROAD	80+42.00	Lt	13.0	1.0
TRAPELO ROAD	80+83.00	Rt	12.0	1.0
TRAPELO ROAD	81+03.00	Rt	6.0	1.0
TRAPELO ROAD	81+16.00	Lt	10.0	1.0
TRAPELO ROAD	81+40.00	Rt	8.0	1.0
TRAPELO ROAD	83+41.00	Lt	12.0	1.0
TRAPELO ROAD	85+59.00	Rt	8.0	1.0
COMMON STREET N.	04+93.00	Rt	18.0	1.0
COMMON STREET N.	05+08.00	Rt	12.0	1.0
COMMON STREET N.	01+44.00	Lt	4.0	1.0

COMMON STREET S.	01+53.00	Rt	8.0	1.0
TRAPELO ROAD	87+34.00	Rt	3.0	1.0
TRAPELO ROAD	87+54.00	Lt	12.0	1.0
TRAPELO ROAD	87+68.00	Lt	10.0	1.0
TRAPELO ROAD	89+64.00	Rt	6.0	1.0
TRAPELO ROAD	89+83.00	Rt	8.0	1.0
TRAPELO ROAD	90+24.00	Lt	20.0	1.0
TRAPELO ROAD	90+24.00	Rt	8.0	1.0
TRAPELO ROAD	90+69.00	Lt	16.0	1.0
TRAPELO ROAD	91+01.00	Lt	12.0	1.0
TRAPELO ROAD	94+90.00	Lt	26.0	1.0
TRAPELO ROAD	95+27.00	Rt	24.0	1.0
TRAPELO ROAD	95+57.00	Lt	3.0	1.0
TRAPELO ROAD	95+84.00	Rt	20.0	1.0
TRAPELO ROAD	96+05.00	Lt	14.0	1.0
TRAPELO ROAD	96+34.00	Rt	16.0	1.0
OAK AVENUE	-	Lt	2.0	1.0
TRAPELO ROAD	97+61.00	Lt	14.0	1.0
TRAPELO ROAD	99+52.00	Rt	4.0	1.0
TRAPELO ROAD	99+76.00	Rt	4.0	1.0
BELMONT STREET	102+53.00	Lt	16.0	1.0
PAYSON ROAD	-	Rt	12.0	1.0
BELMONT STREET	114+03.00	Lt	16.0	1.0
BELMONT STREET	114+89.00	Rt	30.0	1.0
VAN NESS ROAD	-	Rt	14.0	1.0
VAN NESS ROAD	-	Lt	12.0	1.0
COMMONWEALTH ROAD	-	Lt	12.0	1.0
BELMONT STREET	116+03.00	Rt	14.0	1.0
BELMONT STREET	116+61.00	Lt	16.0	1.0
BELMONT STREET	116+91.00	Rt	20.0	1.0
BELMONT STREET	117+82.00	Lt	4.0	1.0
BELMONT STREET	118+78.00	Lt	10.0	1.0
STULTS ROAD	-	Lt	18.0	1.0
STULTS ROAD	-	Rt	20.0	1.0
BELMONT STREET	119+32.00	Rt	18.0	1.0
BELMONT STREET	119+50.00	Rt	2.0	1.0
SCHOOL STREET	00+80.00	Rt	18.0	1.0
SCHOOL STREET	01+36.00	Rt	18.0	1.0
SCHOOL STREET	01+54.00	Rt	12.0	1.0
SCHOOL STREET	01+71.00	Rt	16.0	1.0
WINDSOR AVE	-	Rt	22.0	1.0
WESTLUND ROAD	-	Lt	20.0	1.0
BELMONT STREET	132+37.00	Lt	12.0	1.0
BELMONT STREET	132+64.00	Lt	20.0	1.0
BELMONT STREET	133+35.00	Rt	32.0	1.0
BELMONT STREET	137+15.00	Lt	24.0	1.0
BELMONT STREET	143+48.00	Rt	30.0	1.0
BELMONT STREET	147+04.00	Lt	3	1.0
BELMONT STREET	147+39.00	Rt	24	1.0

TOTAL: 106.0 EA

SAY	110	EA
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103.

TREE REMOVED - DIAMETER UNDER 24 INCHES

EA

STREET	STA.	SIDE	TYPE	(IN) SIZE	QUANT.
MILL ST	01+27.06	Rt.	VARIES	12	1
MILL ST	01+16.52	Rt.		15	1
MILL ST	01+08.50	Rt.		15	1
MILL ST	00+98.67	Rt.		10	1
MILL ST	00+93.60	Rt.		6	1
MILL ST	00+78.46	Rt.		8	1
MILL ST	00+69.74	Rt.		8	1
TRAPELO RD	18+10.24	Lt.		8	1
TRAPELO RD	19+31.26	Lt.		14	1
TRAPELO RD	19+40.26	Lt.		12	1
TRAPELO RD	19+48.04	Lt.		8	1
TRAPELO RD	19+77.61	Lt.		12	1
TRAPELO RD	21+29.98	Lt.		16	1
TRAPELO RD	21+46.30	Lt.		6	1
TRAPELO RD	21+53.82	Lt.		6	1
TRAPELO RD	21+57.86	Lt.		6	1
TRAPELO RD	21+77.55	Lt.		18	1
TRAPELO RD	21+95.16	Lt.		14	1
TRAPELO RD	21+96.70	Lt.		6	1
TRAPELO RD	21+97.25	Lt.		6	1
TRAPELO RD	22+01.85	Lt.		6	1
TRAPELO RD	22+03.43	Lt.		6	1
TRAPELO RD	22+07.35	Lt.		12	1
TRAPELO RD	22+18.16	Lt.		10	1
TRAPELO RD	22+20.55	Lt.		10	1
TRAPELO RD	22+25.55	Lt.		10	1
TRAPELO RD	22+36.49	Lt.		12	1
TRAPELO RD	22+49.69	Lt.		8	1
TRAPELO RD	22+48.97	Lt.		CLUMP	MULTIPLE
TRAPELO RD	22+57.42	Lt.		22	1
TRAPELO RD	22+91.45	Lt.		16	1
TRAPELO RD	23+19.23	Lt.		6	1
TRAPELO RD	23+28.90	Lt.		14	1
TRAPELO RD	23+31.35	Lt.		12	1
TRAPELO RD	23+53.98	Lt.		14	1
LEXINGTON ST	00+63.11	Rt.		18	1
TRAPELO RD	35+26.73	Lt.		UNKNOWN	1
TRAPELO RD	42+84.73	Lt.		2	1
TRAPELO RD	52+22.33	Rt.		6	1
TRAPELO RD	52+64.24	Rt.		6	1
TRAPELO RD	61+81.96	Rt.		6	1
TRAPELO RD	62+14.59	Rt.		14	1
TRAPELO RD	62+52.41	Rt.		10	1
TRAPELO RD	62+61.32	Rt.		Dead	1
TRAPELO RD	70+14.75	Rt.		10	1
HARRIETT AVE	00+74.64	MIDDLE		3	1
TRAPELO RD	84+24.37	Lt.		6	1
TRAPELO RD	84+59.87	Rt.		8	1
TRAPELO RD	85+24.61	Rt.		8	1
COMMON ST-S	00+83.66	Rt.		8	1
COMMON ST-S	01+13.10	Rt.		4	1
TRAPELO RD	89+34.84	Rt.		14	1
TRAPELO RD	91+31.31	Rt.		14	1
TRAPELO RD	97+24.21	Lt.		2	1
TRAPELO RD	97+29.03	Rt.		20	1
TRAPELO RD	99+99.74	Rt.		6	1
BELMONT ST	101+03.23	Rt.		8	1
BELMONT ST	101+27.08	Rt.		6	1
BELMONT ST	101+51.59	Rt.		8	1
BELMONT ST	101+90.99	Rt.		6	1
BELMONT ST	101+93.67	Lt.		12	1
BELMONT ST	102+18.40	Rt.		4	1
BELMONT ST	102+46.59	Rt.		4	1
BELMONT ST	102+99.09	Rt.		4	1
BELMONT ST	104+15.98	Lt.		10	1
BELMONT ST	115+84.17	Lt.		16	1
BELMONT ST	118+24.17	Lt.		19	1
BELMONT ST	119+98.34	Lt.		4	1
SCHOOL ST	00+97.26	Rt.		16	1
BELMONT ST	145+15.40	Lt.		18	1
BELMONT ST	149+93.73	Rt.		14	1

TOTAL: 51 EA

SAY	51	EA
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104.

**TREE REMOVED - DIAMETER 24 INCHES AND
OVER**

EA

STREET	STA.	SIDE	TYPE	(IN) SIZE	QUANT.
TRAPELO RD	27+90.61	Rt.	VARIES	42	1
TRAPELO RD	62+20.15	Rt.		30	1
TRAPELO RD	9490.62	Rt.		24	1

TOTAL: 3 EA

SAY	3	EA
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105.

STUMP REMOVED

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QUANT</u>
MILL ST	01+95.15	Rt.	1
MILL ST	01+37.05	Rt.	1
MILL ST	01+27.06	Rt.	1
MILL ST	01+20.50	Rt.	1
MILL ST	01+02.65	Rt.	1
TRAPELO RD	20+25.00	Lt.	1
BELMONT RD	119+84.70	Rt.	1

TOTAL 7 EA

SAY	7	EA
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120.

EARTH EXCAVATION

CY

A. EARTH EXCAVATION FOR NEW ROADWAY PAVEMENT AREAS

STATION	FOR FULL DEPTH PAVEMENT						SCORED CEM CONC PAVEMENT		
	AT EXIST. RDWY	AT	AT	AT	AT	AT			
STREET	START	END	MAIN RD	SIDE ST	EXIST. SW AREAS	EXIST. GRASS AREAS	FDP < 4'		
TRAPELO RD	17+40.00	22+00.00	2636.63	1515.54	4914.16		415.38		
TRAPELO RD	22+00.00	27+50.00	714.24		1170.98		2676.26		
TRAPELO RD	27+50.00	33+50.00	609.66		1287.43				
TRAPELO RD	33+50.00	39+00.00		5571.07	332.28				
TRAPELO RD	39+00.00	44+00.00							
TRAPELO RD	44+00.00	50+00.00			1418.92				
TRAPELO RD	50+00.00	56+00.00							
TRAPELO RD	56+00.00	61+00.00		2333.58					
TRAPELO RD	61+00.00	67+00.00	337.12					1875.61	
TRAPELO RD	67+00.00	73+00.00		5009.46	463.88			253.67	
TRAPELO RD	73+00.00	79+00.00	333.54			855.1		300.74	
TRAPELO RD	79+00.00	85+00.00						645.09	
TRAPELO RD	85+00.00	91+00.00			216.02		510.81		
TRAPELO RD	91+00.00	96+00.00					538.51		
TRAPELO RD	96+00.00	102+00.00	450.87		2295.22				
BELMONT ST	102+00.00	108+00.00	676.92		497.26				
BELMONT ST	108+00.00	113+00.00	703.91		2204.32				
BELMONT ST	113+00.00	118+00.00	750.89		414.39				
BELMONT ST	118+00.00	123+00.00	641.01		419.39	1852.76	519.61		
BELMONT ST	123+00.00	129+00.00		1973.6				188.89	
BELMONT ST	129+00.00	134+00.00	219.33		207.54			190.89	
BELMONT ST	134+00.00	140+00.00		9346.04	1462.43	913.79		297.09	
BELMONT ST	140+00.00	145+00.00					219.76		
BELMONT ST	145+00.00	147+14.55							
SUB TOTAL			8074.12	25749.29	17304.22	7762.61	1416.24	3075.11	SF
DEPTH (FT)	0.98		See Note 1	1.17	See Note 2	1.75	2.08	0.94	0.31
					See Note 3	See Note 4	See Note 5	See Note 6	
TOTAL VOLUME			7905.91	30040.84	30282.39	16172.10	1327.73	960.97	CF
CONVERSION FACTOR	27.00			CF/CY					
SUB TOTAL			292.81	1112.62	1121.57	598.97	49.18	35.59	CY
TOTAL			3210.74	CY					

B. EARTH EXCAVATION FOR PUBLIC SIDEWALK AND CEM. CONC. ISLANDS AREAS

AREA (FROM SIDEWALK AREAS IN BACK OF CALC BOOK)	225434.0	SF
DEPTH OF EARTH REMOVAL BENEATH CONC	0.67	FT
TOTAL	150289.3	CF
TOTAL	5566.3	CY

C. EARTH EXCAVATION FOR NEW PRIVATE DRIVES AND WALKS

AREA (FROM SIDEWALK AREAS IN BACK OF CALC BOOK)	18273.0	SF
DEPTH OF EARTH REMOVAL BENEATH CONC	0.67	FT
TOTAL	12182.0	CF
TOTAL	451.2	CY

D. EARTH EXCAVATION FROM CROSS SECTIONS (WIDENNG AT TRAPELO AT MILL ST.)

AREA (FROM "EARTHWORK" IN BACK OF CALC BOOK)	776.1	CY
TOTAL	776.1	CY

E. EARTH EXCAVATION FOR TREE PLANTERS IN CENTER ISLANDS

STREET	START	END	AREA (SF)	DEPTH (FT)	VOLUME (CF)	
TRAPELO RD	61+61.30	62+24.50	492	2.0	984.0	
TRAPELO RD	62+91.00	63+57.30	435	2.0	870.0	
TRAPELO RD	67+46.50	68+27.80	638	2.0	1276.0	
TRAPELO RD	83+29.50	83+69.00	301	2.0	602.0	
TRAPELO RD	94+80.00	95+32.30	408	2.0	816.0	
BELMONT RD	105+48.60	112+75.60	6878	2.0	13756.0	
					18304	CF
TOTAL					677.9	CY

F. EARTH EXCAVATION FOR PLANTINGS IN CENTER ISLANDS

STREET	START	END	AREA (SF)	DEPTH (FT)	VOLUME (CF)
TRAPELO RD	65+47.70	65+75.70	211	1.5	316.5
TRAPELO RD	72+92.80	73+23.30	205	1.5	307.5
TRAPELO RD	89+93.40	90+21.40	210	1.5	315
TRAPELO RD	92+01.00	92+30.40	221	1.5	331.5
					1270.5
					CF
			TOTAL		47.1
					CY

G. EARTH EXCAVATION FOR SCORED CONCRETE IN CENTER ISLANDS

STREET	START	END	AREA (SF)	DEPTH (FT)	VOLUME (CF)
TRAPELO RD	59+88.80	60+58.20	395	0.8	316
TRAPELO RD	61+04.50	61+61.30	454	0.8	363.2
TRAPELO RD	62+24.50	62+91.00	546	0.8	436.8
TRAPELO RD	64+08.40	65+16.30	845	0.8	676
TRAPELO RD	69+48.80	69+86.00	284	0.8	227.2
TRAPELO RD	74+34.00	75+01.40	319	0.8	255.2
TRAPELO RD	82+32.50	83+29.50	634	0.8	507.2
TRAPELO RD	90+21.40	92+01.00	1450	0.8	1160
TRAPELO RD	92+30.40	92+53.40	184	0.8	147.2
TRAPELO RD	93+38.00	94+80.00	1133	0.8	906.4
TRAPELO RD	95+32.30	96+40.90	869	0.8	695.2
BELMONT RD	104+13.50	104+53.00	234	0.8	187.2
BELMONT RD	113+60.00	113+88.00	262	0.8	209.6
BELMONT RD	114+00.00	114+88.50	541	0.8	432.8
					6520
					CF
			TOTAL		241.5
					CY

NOTE 1:
 PROPOSED PAVEMENT = 3.5" +4.5"+ 4" + 8" 20
 PROPOSED SURFACE ABOVE EXIST BY 1.25" -1.25
 PAVEMENT REMOVED UNDER ITEM 127. -7
 11.75

NOTE 2:
 PROPOSED PAVEMENT = 3.5" +4.5"+ 4" + 8" 20
 PROPOSED SURFACE ABOVE EXIST BY 1" -1
 ASSUME 5" OF ALL PAVEMENT ON ALL SIDE STREETS -5
 14

NOTE 3:
 PROPOSED PAVEMENT = 3.5" +4.5"+ 4" + 8" 20
 ASSUME 5" REVEAL 5
 AND 4" OF CONCRETE -4
 21

NOTE 4:
 PROPOSED PAVEMENT = 3.5" +4.5" + 4"+8" 20
 ASSUME 5" REVEAL 5
 25

NOTE 5:
 PROPOSED PAVEMENT = 3.5" +8" + 8" 19.5
 PROPOSED SURFACE ABOVE EXIST BY 1.25" -1.25
 PAVEMENT REMOVED UNDER ITEM 127. -7
 11.25

NOTE 6:
 PROPOSED PAVEMENT = 4" + 8" 12
 PROPOSED SURFACE ABOVE EXIST BY 1.25" -1.25
 PAVEMENT REMOVED UNDER ITEM 127. -7
 3.75

SUB TOTAL SUMMARY

A. EARTH EXCAVATION FOR NEW ROADWAY PAVEMENT AREAS	3210.7	CY
B. EARTH EXCAVATION FOR PUBLIC SIDEWALK AND CEM. CONC. ISLANDS AREAS	5566.3	CY
C. EARTH EXCAVATION FOR NEW PRIVATE DRIVES AND WALKS	451.2	CY
D. EARTH EXCAVATION FROM CROSS SECTIONS (WIDENNG AT TRAPELO AT MILL ST.	776.1	CY
E. EARTH EXCAVATION FOR TREE PLANTERS IN CENTER ISLANDS	677.9	CY
F. EARTH EXCAVATION FOR PLANTINGS IN CENTER ISLANDS	47.1	CY
G. EARTH EXCAVATION FOR SCORED CONCRETE IN CENTER ISLANDS	241.5	CY
TOTAL	10970.7	CY

SAY	11,000	CY
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121.

CLASS A ROCK EXCAVATION

CY

FROM "EARTHWORKS" WORKSHEET

TOTAL VOLUME	20954.0	CF
MINUS RETAINING WALL (IF CALC. IN CROSS SECTIONS)	0.0	CF
SUBTOTAL	<u>20,954</u>	CF
10% CONTINGENCY	2095.4	CF
SUBTOTAL	<u>23,049</u>	CF
+ASSUME 0.5% BOULDERS	1,152	CF
SUBTOTAL	<u>21,897</u>	CF
CONVERSION FACTOR	27.00000	CF/CY
TOTAL	<u>811</u>	CY
SAY	820	CY

127.

CONCRETE EXCAVATION

CY

A. REMOVAL OF PUBLIC SIDEWALK & ISLANDS

STREET	STATION		(LF)							MISC (SF)
	START	END	4'	5'	6'	7'	8'	9'		
TRAPELO RD	17+40.00	22+00.00	76		707.61		511.83			
TRAPELO RD	22+00.00	27+50.00		380.79	179.79		332.69		365.15	
TRAPELO RD	27+50.00	33+50.00		308.84		481.88	190.556		275.06	
TRAPELO RD	33+50.00	39+00.00			12.02		684.77	143.71	9311.9	
TRAPELO RD	39+00.00	44+00.00		154.42			601.48		6449.8	
TRAPELO RD	44+00.00	50+00.00					292.15			
TRAPELO RD	50+00.00	56+00.00					607.13		4384.56	
TRAPELO RD	56+00.00	61+00.0	51.98		91.35		564.8			
TRAPELO RD	61+00.00	67+00.00					257.69			
TRAPELO RD	67+00.00	73+00.00	228.82	470.55			195.46		3913.92	
TRAPELO RD	73+00.00	79+00.00		989.03						
TRAPELO RD	79+00.00	85+00.00	70.16	1112.6						
TRAPELO RD	85+00.00	91+00.00		69.99	176.15	854.75	712.53	107.8	8116.62	
TRAPELO RD	91+00.00	96+00.00		260.98	169.88		693.83			
TRAPELO RD	96+00.00	102+00.00			147.24		938.98	163.53		
BELMONT ST	102+00.00	108+00.00					576.92	196.55		
BELMONT ST	108+00.00	113+00.00					523.42			
BELMONT ST	113+00.00	118+00.00		563.57	210.53					
BELMONT ST	118+00.00	123+00.00		85.52	650.25	82.24	485.78			
BELMONT ST	123+00.00	129+00.00	127.35		142.48	722.16	252.78			
BELMONT ST	129+00.00	134+00.00			241.72	238.51	152.26			
BELMONT ST	134+00.00	140+00.00		459.21		629.54				
BELMONT ST	140+00.00	145+00.00				212.24	306.3	338.7		
BELMONT ST	145+00.00	147+14.55			119.56	391.59				
SUB TOTAL			554.31	4855.50	2848.58	3612.91	8881.36	950.29	-	LF
AREA			2217.24	24277.5	17091.48	25290.37	71050.848	8552.61	32817.01	SF
TOTAL VOL (4" THICK WALK AND 6" DRIVE (AVE 4.50))			831.47	9104.06	6409.31	9483.89	26644.07	3207.23	12306.38	CF
CONVERSION FACTOR			27.00	CF/CY						
SUB TOTAL			30.80	337.19	237.38	351.26	986.82	118.79	455.79	CY
SUBTOTAL			2518.01	CY						

B. REMOVAL OF PRIVATE CONCRETE WALK AND DRIVEWAY

STREET	STATION		AREA		
	START	END	DRIVEWAY	WALK	
TRAPELO RD	17+40.00	22+00.00	0.0	0.0	
TRAPELO RD	22+00.00	27+50.00	0.0	17.4	
TRAPELO RD	27+50.00	33+50.00	306.8	45.7	
TRAPELO RD	33+50.00	39+00.00	321.7	419.7	
TRAPELO RD	39+00.00	44+00.00	0.0	76.7	
TRAPELO RD	44+00.00	50+00.00	0.0	71.5	
TRAPELO RD	50+00.00	56+00.00	0.0	0.0	
TRAPELO RD	56+00.00	61+00.0	186.8	37.0	
TRAPELO RD	61+00.00	67+00.00	0.0	153.4	
TRAPELO RD	67+00.00	73+00.00	299.5	115.3	
TRAPELO RD	73+00.00	79+00.00	36.9	19.8	
TRAPELO RD	79+00.00	85+00.00	104.5	44.5	
TRAPELO RD	85+00.00	91+00.00	148.3	120.2	
TRAPELO RD	91+00.00	96+00.00	0.0	101.8	
TRAPELO RD	96+00.00	102+00.00	0.0	428.1	
BELMONT ST	102+00.00	108+00.00	0.0	31.2	
BELMONT ST	108+00.00	113+00.00	37.4	21.3	
BELMONT ST	113+00.00	118+00.00	70.3	80.3	
BELMONT ST	118+00.00	123+00.00	71.6	116.6	
BELMONT ST	123+00.00	129+00.00	0.0	244.8	
BELMONT ST	129+00.00	134+00.00	60.6	143.4	
BELMONT ST	134+00.00	140+00.00	691.5	232.4	
BELMONT ST	140+00.00	145+00.00	0.0	55.0	
BELMONT ST	145+00.00	147+14.55	0.0	19.1	
TOTAL			2335.9	2595.2	SF
TOTAL VOL (4" THICK WALK AND 6" DRIVE)			1167.95	856.43	CF
SUBTOTAL			74.98	CY	
TOTAL			2593.0	CY	
SAY			2,600	CY	

129.3

OLD PAVEMENT EXCAVATION

CY

A. ROADWAY NARROWING, WIDENING, ISLANDS, FULL DEPTH PAVEMENT REPLACEMENT

STREET	STATION		AREA (SF)		
	START	END	3" Thick Over Conc.	5" Thick Side St	7" Thick Main St
TRAPELO RD	16+66.08	22+00.00	-	963.38	2417.7
TRAPELO RD	22+00.00	27+50.00	-	-	111.2
TRAPELO RD	27+50.00	33+50.00	-	-	-
TRAPELO RD	33+50.00	39+00.00	-	6042.85	-
TRAPELO RD	39+00.00	44+00.00	-	2885.24	993.63
TRAPELO RD	44+00.00	50+00.00	-	1384.16	3613.21
TRAPELO RD	50+00.00	55+50.00	-	-	4339.24
TRAPELO RD	55+50.00	61+00.0	-	2242.78	3439.03
TRAPELO RD	61+00.00	67+50.00	-	-	4101.95
TRAPELO RD	67+50.00	73+00.00	-	7455.56	1789.54
TRAPELO RD	73+00.00	79+00.00	-	287.99	2224.45
TRAPELO RD	79+00.00	85+00.00	-	-	2805.19
TRAPELO RD	85+00.00	91+00.00	1365.16	1790.17	1388.56
TRAPELO RD	91+00.00	96+00.00	4061.46	-	179.69
TRAPELO RD	96+00.00	102+00.00	-	-	-
BELMONT ST	102+00.00	108+00.00	5774.29	-	233.57
BELMONT ST	108+00.00	113+00.00	10084.65	-	-
BELMONT ST	113+00.00	118+00.00	802.12	-	413.48
BELMONT ST	118+00.00	123+00.00	-	4259.39	-
BELMONT ST	123+00.00	129+00.00	-	3210	-
BELMONT ST	129+00.00	134+00.00	-	-	923.69
BELMONT ST	134+00.00	140+00.00	-	9348.19	584.36
BELMONT ST	140+00.00	145+00.00	-	-	840.17
BELMONT ST	145+00.00	147+14.55	-	-	508.03
SUB TOTAL (SF)			22087.68	39869.71	30906.7
THICKNESSES (FT)			0.25	0.42	0.58
SUB TOTAL (CF)			5521.92	16613.71	18027.90
			CONVERSION FACTOR		27.00 CF/CY
SUB TOTAL (CY)			204.52	615.32	667.70
			SUB TOTAL		1487.54 CY

B. REMOVAL OF HMA PUBLIC SIDEWALKS

STREET	STATION		WIDTH					
	START	END	3 FT	4 FT	5 FT	6 FT	8 FT	10 FT
TRAPELO RD	16+66.08	22+00.00				145		
TRAPELO RD	22+00.00	27+50.00						
TRAPELO RD	27+50.00	33+50.00						
TRAPELO RD	33+50.00	39+00.00						114
TRAPELO RD	39+00.00	44+00.00					145	81
TRAPELO RD	44+00.00	50+00.00		125			695	
TRAPELO RD	50+00.00	55+50.00					286	
TRAPELO RD	55+50.00	61+00.0					473	
TRAPELO RD	61+00.00	67+50.00					762	
TRAPELO RD	67+50.00	73+00.00					379	
TRAPELO RD	73+00.00	79+00.00					62	
TRAPELO RD	79+00.00	85+00.00					111	
TRAPELO RD	85+00.00	91+00.00					200	
TRAPELO RD	91+00.00	96+00.00						
TRAPELO RD	96+00.00	102+00.00						
BELMONT ST	102+00.00	108+00.00			339	69	43	
BELMONT ST	108+00.00	113+00.00			500			
BELMONT ST	113+00.00	118+00.00			151			
BELMONT ST	118+00.00	123+00.00	84			75		132
BELMONT ST	123+00.00	129+00.00	450				153	
BELMONT ST	129+00.00	134+00.00	40				527	
BELMONT ST	134+00.00	140+00.00	100				992	
BELMONT ST	140+00.00	145+00.00					143	
BELMONT ST	145+00.00	147+14.55					138	
SUB TOTAL (FT)			674	125	990	289	5109	327.0
SUB TOTAL (SF)			2022	500	4950	1734	40872	3270
THICKNESSES (FT)			0.25	0.25	0.25	0.25	0.25	0.25
SUB TOTAL (CF)			505.5	125	1237.5	433.5	10218	817.5
CONVERSION FACTOR			27.00000					
SUB TOTAL (CY)			18.72	4.63	45.83	16.06	378.44	30.28

SUB TOTAL 493.96 **CY**

C. REMOVAL OF PRIVATE DRIVEWAYS AND WALKS

From behind back of sidewalk areas

STREET	STATION		AREA
	START	END	
TRAPELO RD	16+66.08	22+00.00	0.0
TRAPELO RD	22+00.00	27+50.00	187.0
TRAPELO RD	27+50.00	33+50.00	1167.0
TRAPELO RD	33+50.00	39+00.00	607.0
TRAPELO RD	39+00.00	44+00.00	235.0
TRAPELO RD	44+00.00	50+00.00	400.0
TRAPELO RD	50+00.00	55+50.00	433.0
TRAPELO RD	55+50.00	61+00.00	790.0
TRAPELO RD	61+00.00	67+50.00	1765.0
TRAPELO RD	67+50.00	73+00.00	1160.0
TRAPELO RD	73+00.00	79+00.00	205.0
TRAPELO RD	79+00.00	85+00.00	220.0
TRAPELO RD	85+00.00	91+00.00	1596.0
TRAPELO RD	91+00.00	96+00.00	856.0
TRAPELO RD	96+00.00	102+00.00	276.0
BELMONT ST	102+00.00	108+00.00	62.0
BELMONT ST	108+00.00	113+00.00	37.0
BELMONT ST	113+00.00	118+00.00	76.0
BELMONT ST	118+00.00	123+00.00	245.0
BELMONT ST	123+00.00	129+00.00	1008.0
BELMONT ST	129+00.00	134+00.00	848.0
BELMONT ST	134+00.00	140+00.00	902.0
BELMONT ST	140+00.00	145+00.00	715.0
BELMONT ST	145+00.00	147+14.55	151.0

SUB TOTAL (SF) 13941.0

THICKNESSES (FT) 0.25

TOTAL 3485.25 CF

SUBTOTAL **129.1** **CY**

D. REPLACEMENT OF FAILING PAVEMENT AFTER MILLING AND BEFORE INTERMEDIATE OVERLAY

10% OF 2.5" TO 3.5" MILLED AREA (ITEM 415.)	1684	SF
3.5" DEPTH	<u>0.29</u>	FT
	491.17	CF
27 CF PER CY	18.19	CY
SUB TOTAL	18.19	CY

SUB TOTAL SUMMARY

A. ROADWAY NARROWING, WIDENING, ISLANDS, FULL DEPTH PAVEMENT REPLACEMENT	1487.54	CY
B. REMOVAL OF HMA PUBLIC SIDEWALKS	493.96	CY
C. REMOVAL OF PRIVATE DRIVEWAYS AND WALKS	129.1	CY
D. REPLACEMENT OF FAILING PAVEMENT AFTER MILLING AND BEFORE INTERMEDIATE OVERLAY	18.19	CY

TOTAL **2128.78**

SAY	2130	CY
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129.52

TRACK EXCAVATION - TWO RAILS

FT

STREET	STATION		(FT)
	START	END	LENGTH
CHURCH STREET	00+42.69	3+40.00	280.6

TOTAL 281 FT

SAY 290 FT

129.54

TRACK EXCAVATION - FOUR RAILS

FT

STREET	STATION		LENGTH
	START	END	
TRAPELO RD	89+92.42	90+87.04	94.62
TRAPELO RD	93+35.98	96+42.85	306.87
BELMONT ST	104+12.52	104+55.01	42.49
BELMONT ST	105+44.57	112+79.90	735.33
BELMONT ST	113+58.12	114+90.38	132.26

TOTAL: 1311.6 FT

SAY	1,320	FT
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141.

CLASS A TRENCH EXCAVATION

CY

FOR ALL WALLS, SWALES, WATERWAYS, CULVERTS, WING WALLS, ETC.

A. FOR CEMENTED STONE MASONRY WALLS:

STREET	STATION	(FT) LENGTH	CUT			
			END AREA	AVG. END	(CF) VOL.	
MILL STREET	2+50	0	0.00	-	-	
MILL STREET	2+25	25	4.50	2.25	56.25	
MILL STREET	2+00	25	2.60	3.55	88.75	
MILL STREET	1+50	50	2.30	2.45	122.50	
MILL STREET	1+00	50	2.65	2.48	123.75	
MILL STREET	0+50	50	3.70	3.18	158.75	
TRAPELO ROAD	20+50	140	3.90	3.80	532.00	
TRAPELO ROAD	21+00	50	0.00	1.95	97.50	
TRAPELO ROAD	21+50	50	8.20	4.10	205.00	
TRAPELO ROAD	22+00	50	8.20	8.20	410.00	
TRAPELO ROAD	22+50	50	8.20	8.20	410.00	
TRAPELO ROAD	23+00	50	9.05	8.63	431.25	
TRAPELO ROAD	23+50	50	25.00	17.03	851.25	
TRAPELO ROAD	23+75	25	0.00	12.50	312.50	
SUB TOTAL VOLUME					3799.50	CF

B. SWALE ALONG TRAPELO ACROSS FROM MILL STREET

STREET	STATION	(FT) LENGTH	CUT			
			END AREA	AVG. END	(CF) VOL.	
TRAPELO ROAD	18+25	0	0.00	-	-	
TRAPELO ROAD	18+60	25	4.50	2.25	56.25	
TRAPELO ROAD	19+25	25	2.60	3.55	88.75	
TRAPELO ROAD	19+35	50	2.30	2.45	122.50	
TRAPELO ROAD	19+50	50	2.65	2.48	123.75	
TRAPELO ROAD	20+75	125	3.70	3.18	396.88	
TRAPELO ROAD	21+00	25	0.00	1.85	46.25	
SUB TOTAL VOLUME					834.38	CF
TOTAL VOLUME					4,633.88	CF
CONVERSION FACTOR					27.00	CF/CY
TOTAL					171.63	CY
SAY					180	CY

141.1

TEST PIT FOR EXPLORATION

CY

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QUANT.</u>
TRAPELO RD	17+40.00	22+00.00	3
TRAPELO RD	22+00.00	27+50.00	0
TRAPELO RD	27+50.00	33+50.00	6
TRAPELO RD	33+50.00	39+00.00	2
TRAPELO RD	39+00.00	44+00.00	2
TRAPELO RD	44+00.00	50+00.00	6
TRAPELO RD	50+00.00	56+00.00	6
TRAPELO RD	56+00.00	61+00.0	5
TRAPELO RD	61+00.00	67+00.00	2
TRAPELO RD	67+00.00	73+00.00	4
TRAPELO RD	73+00.00	79+00.00	2
TRAPELO RD	79+00.00	85+00.00	3
TRAPELO RD	85+00.00	91+00.00	10
TRAPELO RD	91+00.00	96+00.00	2
TRAPELO RD	96+00.00	102+00.00	2
BELMONT ST	102+00.00	108+00.00	0
BELMONT ST	108+00.00	113+00.00	3
BELMONT ST	113+00.00	118+00.00	1
BELMONT ST	118+00.00	123+00.00	4
BELMONT ST	123+00.00	129+00.00	6
BELMONT ST	129+00.00	134+00.00	1
BELMONT ST	134+00.00	140+00.00	3
BELMONT ST	140+00.00	145+00.00	3
BELMONT ST	145+00.00	147+14.55	1
CONTINGENCY			73

TOTAL: 150.0 PITS

EACH PIT APPROX. 5 FT x 5 FT x 5 FT

VOLUME PER PIT: 4.63 CY

TOTAL: 694.5 CY

SAY	700	CY
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142.

CLASS B TRENCH EXCAVATION

CY

*LENGTH OF TRENCH WITH DEPTH >5'
**AVERAGE DEPTH WHERE TRENCH DEEPER THAN 5'

FOR PIPES WITH EXCAVATION MORE THAN 5 FEET IN DEPTH

STREET	FROM				STREET	TO				(LF)			(LF)			(IN)		(LF)		(CF)
	STATION	STRUCT.	SIDE	INV		STATION	STRUCT.	SIDE	INV	LENGTH	HIGH DTH	LOW DTH	LENGTH*	DEPTH**	Pipe Dia	Width	AVG LESS SFT	VOL.		
MILL ST	01+14	DMH	Rt.	85 80.5	MILL ST.	00+77	DMH	Rt.	85.1 79.75	35.0	5.3	4.5	14.4	5.2	12	4.18	-5.0	10.5		
MILL ST	01+14	DMH	Rt.	85 78.55	MILL ST.	01+10	DMH	Rt.	84.5 78.3	31.0	6.5	6.2	31.0	6.3	18.0	5.8	-5.0	239.3		
TRAPELO RD	30+38	DMH	Rt.	80.4 73.9	TRAPELO RD.	31+47	DMH	Rt.	78.75 72.25	105.0	6.5	6.5	105.0	6.5	18.0	6.0	-5.0	945.0		
TRAPELO RD	31+47	DMH	Rt.	78.75 72.25	TRAPELO RD.	32+34	DMH	Rt.	77.42 70.87	82.0	6.6	6.5	82.0	6.5	18.0	6.0	-5.0	753.4		
TRAPELO RD	32+34	DMH	Rt.	77.42 70.87	TRAPELO RD.	33+13	DMH	Rt.	76.28 69.73	75.0	6.6	6.6	75.0	6.6	18.0	6.1	-5.0	703.3		
TRAPELO RD	33+13	DMH	Rt.	76.28 69.73	TRAPELO RD.	33+49	DMH	Rt.	75.8 69.3	32.0	6.6	6.5	32.0	6.5	18.0	6.0	-5.0	294.0		
TRAPELO RD.	33+49	DMH	Rt.	75.8 69.3	LEXINGTON ST.	01+83	DMH	Rt.	74.04 67.64	116.0	6.5	6.4	116.0	6.5	18.0	6.0	-5.0	1000.8		
LEXINGTON ST	01+54	DMH	Rt.	74.7 66.2	LEXINGTON ST.	01+84	DMH	Rt.	74.04 67.54	90.0	8.5	6.5	90.0	7.5	18.0	7.0	-5.0	1575.0		
CHURCH ST.	00+99	DMH	Rt.	71.75 66.1	TRAPELO RD.	38+09	DMH	Lt.	71.93 65.8	69.0	6.1	5.7	69.0	5.9	18.0	5.4	-5.0	331.0		
TRAPELO RD	38+09	DMH	Lt.	71.93 65.8	TRAPELO RD.	39+46	DMH	Lt.	69.7 65.2	133.0	6.1	4.5	92.2	5.6	18.0	5.1	-5.0	263.9		
TRAPELO RD	39+46	DMH	Lt.	69.7 65.1	TRAPELO RD.	40+84	DMH	Lt.	69.42 64.27	133.0	5.2	4.6	36.3	5.1	21.0	4.8	-5.0	13.1		
TRAPELO RD.	40+84	DMH	Lt.	69.42 64.27	TRAPELO RD.	41+15	DMH	Lt.	68.85 64.1	29.0	5.2	4.8	10.9	5.1	21.0	4.8	-5.0	3.9		
TRAPELO RD.	40+84	DMH	Lt.	69.42 64.27	TRAPELO RD.	40+80	CB	Lt.	68.81 65.6	14.0	5.2	3.0	1.0	5.1	15.0	4.3	-5.0	0.3		
TRAPELO RD.	41+07	CB	Rt.	68.84 65.34	TRAPELO RD.	41+21	DMH	Lt.	69.01 63.7	12.0	5.3	3.5	2.1	5.2	15.0	4.4	-5.0	1.4		
TRAPELO RD.	45+81	DMH	Rt.	67.8 61.78	TRAPELO RD.	46+34	DMH	Rt.	67.7 61.3	48.0	6.4	6.0	48.0	6.2	12.0	5.2	-5.0	302.6		
TRAPELO RD.	46+34	DMH	Rt.	67.7 61.2	TRAPELO RD.	46+59	DMH	Rt.	66.65 60.9	24.0	6.5	5.8	24.0	6.1	12.0	5.1	-5.0	138.4		
TRAPELO RD	48+47	DMH	Rt.	62.73 56.33	TRAPELO RD.	48+47	DMH	Rt.	62.73 56.5	5.0	6.4	4.7	4.2	5.7	12.0	4.7	-5.0	13.7		
TRAPELO RD	48+47	DMH	Rt.	62.73 56.33	TRAPELO RD.	50+56	DMH	Rt.	68.55 62.05	20.0	6.5	6.4	204.0	6.5	12.0	5.5	-5.0	1612.1		
TRAPELO RD	50+57	DMH	Rt.	68.78 62.55	TRAPELO RD.	50+56	DMH	Rt.	68.55 62.15	15.0	6.4	6.2	15.0	6.3	12.0	5.3	-5.0	104.8		
TRAPELO RD	55+52	DMH	Rt.	73.67 67.14	TRAPELO RD.	56+06	DMH	Lt.	73.37 67.46	65.0	6.5	5.9	65.0	6.2	12.0	5.2	-5.0	413.9		
TRAPELO RD	55+52	DMH	Rt.	73.67 67.14	TRAPELO RD.	55+96	DMH	Rt.	73.3 66.9	29.0	6.5	6.4	29.0	6.5	15.0	5.7	-5.0	242.8		
TRAPELO RD	55+96	DMH	Rt.	73.3 66.8	TRAPELO RD.	58+23	DMH	Rt.	71.75 65.56	217.0	6.5	6.2	217.0	6.3	15.0	5.6	-5.0	1633.0		
TRAPELO RD	58+23	DMH	Rt.	71.75 65.36	TRAPELO RD.	58+60	DMH	Rt.	71.7 65.2	34.0	6.4	6.4	34.0	6.4	15.0	5.7	-5.0	279.8		
TRAPELO RD	58+60	DMH	Rt.	71.7 65.2	TRAPELO RD.	59+78	DMH	Rt.	71 64.6	111.0	6.5	6.4	111.0	6.5	21.0	6.2	-5.0	997.9		
TRAPELO RD.	59+78	DMH	Rt.	71 64.5	TRAPELO RD.	60+89	DMH	Rt.	70.3 63.9	105.0	6.5	6.4	105.0	6.5	21.0	6.2	-5.0	943.9		
TRAPELO RD.	60+89	DMH	Rt.	70.3 63.8	TRAPELO RD.	63+69	DMH	Rt.	69.15 63.37	275.0	6.5	5.8	275.0	6.1	24.0	6.1	-5.0	1924.9		
TRAPELO RD	63+69	DMH	Rt.	69.15 63.67	TRAPELO RD.	63+80	DMH	Rt.	69.69 63.29	15.0	6.4	5.5	15.0	5.9	24.0	5.9	-5.0	83.8		
TRAPELO RD	68+24	DMH	Rt.	74 63.4	TRAPELO RD.	70+46	DMH	Rt.	84.4 73.9	221	10.6	10.5	221.0	10.6	27	10.8	-5.0	13246.7		
TRAPELO RD	70+46	DMH	Rt.	84.4 74	TRAPELO RD.	71+35	DMH	Rt.	89.2 79.4	87	10.4	9.8	87.0	10.1	27	10.4	-5.0	4592.3		
TRAPELO RD.	71+35	DMH	Rt.	89.2 84.08	TRAPELO RD.	71+65	DMH	Rt.	91.6 86.1	28	5.5	5.1	28.0	5.3	27	5.6	-5.0	48.3		
HARRIET ST.	00+90	DMH	Rt.	88.77 81.9	TRAPELO RD.	71+35	DMH	Rt.	89.2 81.6	61	7.6	6.9	61.0	7.2	12	6.2	-5.0	850.0		
TRAPELO RD	71+47	DMH	Lt.	89.15 82.8	TRAPELO RD.	70+90	CB	Lt.	93 89.5	55	6.4	3.5	26.1	5.7	27	5.9	-5.0	104.2		
TRAPELO RD	71+65	DMH	Rt.	91.6 87	TRAPELO RD.	73+32	DMH	Rt.	102 95.17	167	6.8	4.6	136.6	5.9	27	6.2	-5.0	756.3		
TRAPELO RD	73+32	DMH	Rt.	102 95.27	TRAPELO RD.	73+88	DMH	Rt.	105 97.1	48	7.9	6.7	48.0	7.3	27	7.6	-5.0	833.5		
TRAPELO RD	73+84	DMH	Rt.	105 97.6	TRAPELO RD.	75+53	DMH	Rt.	114.5 104.3	168	10.2	7.4	168.0	8.8	27	9.1	-5.0	5777.5		
TRAPELO RD	75+53	DMH	Rt.	114.5 107.5	TRAPELO RD.	76+07	DMH	Rt.	116.7 107.9	51	8.8	7.0	51.0	7.9	27	8.1	-5.0	1191.3		
TRAPELO RD	76+07	DMH	Rt.	116.7 108.7	TRAPELO RD.	77+70	DMH	Rt.	122.4 112.1	160	10.3	8.0	160.0	9.1	27	9.4	-5.0	6187.5		
TRAPELO RD.	78+29	DMH	Rt.	123.1 118.4	TRAPELO RD.	81+55	DMH	Rt.	135.7 127.8	322	7.9	4.7	291.7	6.4	27	6.7	-5.0	2822.2		
TRAPELO RD	81+55	DMH	Rt.	135.7 128	TRAPELO RD.	84+28	DMH	Rt.	143.2 134.6	270	8.6	7.7	270.0	8.2	27	8.4	-5.0	7175.4		
TRAPELO RD	84+28	DMH	Rt.	143.2 136.7	TRAPELO RD.	87+56	DMH	Rt.	147.5 141	309	6.5	6.5	309.0	6.5	15	5.8	-5.0	2665.1		
TRAPELO RD	84+28	DMH	Rt.	143.2 134.9	TRAPELO RD.	84+29	DMH	Lt.	143.4 135.7	25	8.3	7.7	25.0	8.0	27	8.2	-5.0	615.9		
TRAPELO RD	84+29	DMH	Lt.	143.4 136.1	TRAPELO RD.	85+03	DMH	Lt.	144.1 137.2	71	7.3	6.9	71.0	7.1	27	7.3	-5.0	1092.5		
TRAPELO RD	85+03	DMH	Lt.	144.1 137.3	TRAPELO RD.	86+47	DMH	Lt.	146.7 139.6	140	7.1	6.8	140.0	7.0	27	7.2	-5.0	1991.3		
TRAPELO RD	86+47	DMH	Lt.	146.7 139.6	TRAPELO RD.	87+34	DMH	Lt.	147.9 141.1	81	7.1	6.8	81.0	7.0	27	7.2	-5.0	1137.2		
TRAPELO RD	87+34	DMH	Lt.	147.9 141.1	TRAPELO RD.	87+48	DMH	Lt.	148 142.4	24	6.8	5.5	24.0	6.2	15	5.4	-5.0	153.0		
TRAPELO RD	87+34	DMH	Lt.	147.9 141.1	TRAPELO RD.	87+80	DMH	Lt.	148.3 141.5	43	6.8	6.8	43.0	6.8	27	7.1	-5.0	545.7		
TRAPELO RD	87+56	DMH	Rt.	147.5 143.4	TRAPELO RD.	88+25	DMH	Rt.	149 143.9	72	5.1	4.1	7.1	5.1	15	4.3	-5.0	1.5		
TRAPELO RD	87+80	DMH	Lt.	148.3 141.9	TRAPELO RD.	90+41	DMH	Rt.	150.4 142.5	257	7.8	6.4	257.0	7.1	24	7.1	-5.0	3926.9		
TRAPELO RD	90+41	DMH	Lt.	150.4 142.5	TRAPELO RD.	93+17	DMH	Lt.	152.1 143.6	275	8.5	7.8	275.0	8.2	24	8.2	-5.0	7075.5		
BELMONT ST	107+44	DMH	Lt.	135.6 129.1	BELMONT ST	110+27	DMH	Lt.	123.9 117.5	280	6.5	6.4	280.0	6.5	12	5.5	-5.0	2212.7		
BELMONT ST	110+27	DMH	Lt.	123.9 117.4	BELMONT ST	112+65	DMH	Lt.	114.4 108	226	6.5	6.4	226.0	6.5	12	5.5	-5.0	1786.0		
BELMONT ST	112+65	DMH	Lt.	114.4 107.9	BELMONT ST	113+25	DMH	Lt.	112.2 107.2	63	6.5	5.0	63.0	5.8	12	4.8	-5.0	224.4		
BELMONT ST	115+40	DMH	Lt.	105.5 99.5	BELMONT ST	115+42	DMH	Lt.	105.5 99.4	2	6.1	6.0	2.0	6.0	12	5.0	-5.0	10.0		
BELMONT ST	117+28	DMH	Lt.	99.6 93.1	BELMONT ST	117+45	DMH	Lt.	98.95 92.9	24	6.5	6.1	24.0	6.3	12	5.3	-5.0	161.4		
BELMONT ST	117+45	DMH	Lt.	98.95 92.45	BELMONT ST	119+34	DMH	Lt.	92.2 85.1	184	7.1	6.5	184.0	6.8	15	6.1	-5.0	2003.8		
BELMONT ST	119+31	DMH	Lt.	92.2 85.7	BELMONT ST	119+34	DMH	Lt.	92.2 85.1	2	7.1	6.5	2.0	6.8	15	6.1	-5.0	21.8		
BELMONT ST	119+02	DMH	Rt.	93.7 87.4	BELMONT ST	119+07	DMH	Lt.	93.6 87.2	10	6.4	6.3	10.0	6.3	12	5.3	-5.0	72.2		
BELMONT ST	120+70	DMH	Rt.	85.7 79.5	SCHOOL ST S	00+55	DMH	Lt.	87.66 81.16	40	6.5	6.2	40.0	6.4	12	5.4	-5.0	288.9		
BELMONT ST	119+34	DMH	Lt.	92.2 85.1	BELMONT ST	120+95	DMH	Lt.	84.21 79.4	155	7.1	4.8	142.1	6.1	18	5.6	-5.0	828.3		
BELMONT ST	123+61	DMH	Lt.	70.94 65.05	BELMONT ST	123+62	DMH	Lt.	71.4 65	11	6.4	5.9	11.0	6.1	12	5.1	-5.0	64.8		
BELMONT ST	123+62	DMH	Lt.	71.4 64.9	BELMONT ST	125+66	DMH	Lt.	65.88 59.48	199	6.5	6.4	199.0	6.5	21	6.2	-5.0	1789.0		
BELMONT ST	125+66	DMH	Lt.	65.88 59.48	WORCESTER ST	00+35	DMH	Lt.	65.4 59.57	12	6.4	5.8	12.0	6.1	12	5.1	-5.0	68.4		
BELMONT ST	125+66	DMH	Lt.	65.88 59.38	BELMONT ST	127+59	DMH	Lt.	61.4 55	184	6.5	6.4	184.0	6.5	21	6.2	-5.0	1654.2		
BELMONT ST	127+59	DMH	Lt.	61.4 55	BELMONT ST	127+54	DMH	Lt.	61.2 55.05	10	6.4	6.2	10.0	6.3	12	5.3	-5.0	67.3		
BELMONT ST	127+59	DMH	Lt.	61.4 54.9	BELMONT ST	128+70	DMH	Lt.	58.62 52.22	113	6.5	6.4	113.0	6.5	24	6.5	-5.0	1056.8		
BELMONT ST	128+70	DMH	Lt.	58.62 52.12																

144.

CLASS B ROCK EXCAVATION

CY

WHEN ENCOUNTERED IN DRAINAGE PIPE AND STRUCTURE INSTALLATION.

A. FOR DRAINAGE PIPE AND STRUCTURE INSTALLATION

PAYMENT WIDTH: 2FT GREATER THAN INSIDE DIAMETER OF PIPE
MAXIMUM DEPTH: 1FT BELOW PIPE BARREL

DRAINAGE TRENCHES	LF	LF	LF	CF
	LENGTH	WIDTH	DEPTH	VOL
10 INCH DUCTILE IRON PIPE	332	3.83333333	5	6363.3333
12 INCH DUCTILE IRON PIPE	27	4	5	540
12 INCH REINFORCED CONCRETE PIPE	4310	4	5	86200
15 INCH REINFORCED CONCRETE PIPE	1145	4.25	5	24331.25
18 INCH REINFORCED CONCRETE PIPE	917	4.5	5	20632.5
21 INCH REINFORCED CONCRETE PIPE	761	4.75	5	18073.75
24 INCH REINFORCED CONCRETE PIPE	2606	5	5	65150
27 INCH REINFORCED CONCRETE PIPE	1938	5.25	5	50872.5
1 OF SINGLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	1489	3.5	2	10423.28
1 OF DOUBLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	384	4	2	3074.16
1 OF TRIPLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	40	4.5	2	361.08
CLASS B TRENCH				133,680.30
VOLUME:				419702 CF
ASSUME 3% ROCK				12591 CF
SUBTOTAL	12591.06			CF

B. SEWER WORK

AS ESTIMATED BASED ON SOIL BORING LOGS
AND PROPOSED SANITARY SEWER PIPE LAYOUT

SUBTOTAL 0.00 CF

C. RETAINING WALL

FROM EARTHWORK CALCS - ROCK EXCAVATION FOR WALL

10863.00 CF

D. SUBDRAIN

STATION	(LF)	END AREA	AVG. END	(CF) VOL.
	LENGTH			
17+20		0.00	-	-
17+40		0.00	0.00	0.00
17+60	25.0	20.00	10.00	250.00
17+80		0.00	0.00	0.00
18+00		0.00	0.00	0.00
18+20		0.00	0.00	0.00
18+40		0.00	0.00	0.00

SUBTOTAL 250.00 CF

SUB TOTAL SUMMARY

A. FOR DRAINAGE PIPE AND STRUCTURE INSTALLATION	12,591.06	CF
B. SEWER WORK	0.00	CF
C. RETAINING WALL	10863	CF
D. SUBDRAIN	250.00	CF

SUBTOTAL 23,704.06 CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 877.93 CY

SAY	880	CY
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145.

DRAINAGE STRUCTURE ABANDONED

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>CB</u>	<u>DMH</u>	<u>QTY.</u>
MILL ST	1+10	Rt.	1	0	1
TRAPELO RD	18+11	Lt.	1	0	1
TRAPELO RD	18+52	Lt.	1	0	1
TRAPELO RD	21+86	Rt.	1	0	1
TRAPELO RD	27+56	Lt.	1	0	1
TRAPELO RD	30+18	Lt.	1	0	1
TRAPELO RD	31+53	Lt.	1	0	1
TRAPELO RD	32+48	Rt.	1	0	1
TRAPELO RD	31+54	Lt.	0	1	1
TRAPELO RD	34+69	Rt.	1	0	1
LEXINGTON ST	4+07	Rt.	1	0	1
LEXINGTON ST	4+11	Lt.	1	0	1
CHURCH ST	3+34	Rt.	1	0	1
CHURCH ST	0+99	Rt.	1	0	1
TRAPELO RD	41+37	Rt.	1	0	1
TRAPELO RD	48+23	Rt.	1	0	1
TRAPELO RD	48+30	Rt.	1	0	1
TRAPELO RD	48+76	Rt.	1	0	1
TRAPELO RD	61+13	Rt.	1	0	1
TRAPELO RD	61+13	Rt.	0	1	1
TRAPELO RD	63+28	Lt.	1	0	1
TRAPELO RD	67+45	Lt.	1	0	1
HARRIETT AVE	0+76	Lt.	1	0	1
TRAPELO RD	73+06	Rt.	1	0	1
TRAPELO RD	75+85	Lt.	1	0	1
TRAPELO RD	76+06	Rt.	1	0	1
TRAPELO RD	78+29	Rt.	0	1	1
TRAPELO RD	78+74	Rt.	1	0	1
TRAPELO RD	82+19	Rt.	1	0	1
TRAPELO RD	86+43	Lt.	1	0	1
COMMON ST N	0+80	Rt.	1	0	1
TRAPELO RD	92+54	Lt.	1	0	1
TRAPELO RD	92+60	Lt.	0	1	1
BELMONT ST	102+32	Rt.	1	0	1
BELMONT ST	104+67	Lt.	1	0	1
BELMONT ST	109+35	Rt.	1	0	1
BELMONT ST	112+05	Rt.	1	0	1
BELMONT ST	112+61	Lt.	1	0	1
BELMONT ST	117+73	Rt.	1	0	1
BELMONT ST	118+75	Rt.	1	0	1
BELMONT ST	123+45	Lt.	1	0	1
BELMONT ST	123+62	Lt.	1	0	1
BELMONT ST	124+43	Rt.	1	0	1
TEMPLETOM PKWY	1+04	Rt.	1	0	1
TEMPLETOM PKWY	1+04	Lt.	1	0	1
BELMONT ST	135+90	Rt.	1	0	1
BELMONT ST	141+33	Rt.	1	0	1
BELMONT ST	141+62	Rt.	1	0	1
TOTAL:			44	4	

TOTAL: 48 EA

SAY	48	EA
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146.

DRAINAGE STRUCTURE REMOVED

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>CB</u>	<u>DMH</u>	<u>QTY.</u>
MILL ST	1+15	Rt.	1	0	1
MILL ST	3+31	Rt.	1	0	1
TRAPELO RD	30+05	Rt.	0	1	1
TRAPELO RD	47+58	Rt.	1	0	1
TRAPELO RD	58+60	Rt.	0	1	1
TRAPELO RD	58+19	Rt.	1	0	1
TRAPELO RD	73+32	Rt.	0	1	1
BELMONT ST	119+82	Rt.	1	0	1
BELMONT ST	119+85	Rt.	1	0	1
BELMONT ST	119+87	Rt.	1	0	1
TRAPELO RD	130+97	Lt.	0	1	1
TRAPELO RD	127+32	Lt.	1	0	1
TRAPELO RD	105+37	Rt.	1	0	1
TOTAL:			9	4	

TOTAL: 13 EA

SAY	13	EA
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150.1

SPECIAL BORROW

CY

TO BE USED AT ALL AREAS OF ROCK CUT AND AREAS WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.

A. ROCK CUT AREAS

FROM "EARTHWORKS" WORKSHEET

TOTAL VOLUME 1748.75 CF

B. WETLAND AREAS

<u>STREET</u>	<u>STATION</u> <u>START</u> <u>END</u>	<u>(SF)</u> <u>AREA</u>
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TOTAL AREA 0 SF

DEPTH OF SPECIAL BORROW 0 LF

TOAL WETLAND VOLUME 0 CF

SUBTOTAL 1,749 CF

15% SWELL 262.3125 CF

SUBTOTAL 2,011.06 CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 74 CY

SAY	75	CY
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151.

GRAVEL BORROW

CY

A. GRAVEL FOR PAVEMENT AREAS

FULL DEPTH PAVEMENT > 4FT	70,319	SF
FULL DEPTH PAVEMENT < 4FT	326	SF
	DEPTH	0.67
	VOLUME	47120.22
		LF
		CF

B. GRAVEL FOR SIDEWALK AREAS

CEMENT CONCRETE SIDEWALK AREA	98471.00	SF
SCORED CEMENT CONCRETE SIDEWALK AREA	48996.00	SF
COLORED SCORED CEMENT CONCRETE SIDEWALK AREA	11436.00	SF
CEMENT CONCRETE SIDEWALK AT DRIVE AREA	30522.00	SF
SCORED CEMENT CONCRETE SIDEWALK AT DRIVE AREA	2389.00	SF
CEMENT CONCRETE WHEELCHAIR AREA	33620.00	SF
PRIVATE CEMENT CONCRETE SIDEWALK AREA	2081.00	SF
PRIVATE HOT MIX ASPHALT WALK AREA	563.00	SF
TOTAL AREA	228078.00	SF
	DEPTH	0.67
	VOLUME	152128.03
		LF
		CF

C. GRAVEL FOR DRIVEWAY AREAS

CEMENT CONCRETE AT DRIVE AREA	35196.00	SF
HOT MIX ASPHALT DRIVE AREA	13,086	SF
TOTAL AREA	48282.00	SF
	DEPTH	0.67
	VOLUME	32348.94
		LF
		CF
SUBTOTAL	231597.18	CF

CONVERSION FACTOR	27.00	CF/CY
SUBTOTAL	8577.67	CY
25% SWELL	2144.42	CY
TOTAL	10722.09	CY

SAY	10,750	CY
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Area calculations located in back of book on pavement, sidewalk, and back of walk areas summary pages

151.2

**GRAVEL BORROW FOR BACKFILLING
 STRUCTURES AND PIPES**

CY

A. RETAINING WALL BACKFILL

STREET	Station	Distance (LF)	Cut		
			End Area (SF)	Avg. End Area (SF)	Vol. (CF)
TRAPELO ROAD	21+10	0	7.90	-	-
TRAPELO ROAD	21+50	42.8	7.90	7.90	338.12
TRAPELO ROAD	22+00	49.7	7.90	7.90	392.63
TRAPELO ROAD	22+50	48.3	7.90	7.90	381.57
TRAPELO ROAD	23+00	48.5	11.80	9.85	477.73
TRAPELO ROAD	23+50	48.25	34.10	22.95	1107.34
TRAPELO ROAD	23+70	18.8	34.10	34.10	641.08
TRAPELO ROAD	23+33	0	7.90	-	-
TRAPELO ROAD	23+70	35.5	7.90	21.00	745.50

SUBTOTAL	4084.0	CF
CONVERSION FACTOR	27.00	CF/CY
SUBTOTAL	151.26	CY
25% SWELL	37.81	CY
TOTAL	189.07	CY
SAY	190	CY

153.

**CONTROLLED DENSITY FILL -
 EXCAVATABLE**

CY

A. PIPE LENGTHS:

	(LF)	
	<u>LENGTH</u>	
10 INCH DUCTILE IRON PIPE	332	
12 INCH DUCTILE IRON PIPE	27	
32 INCH REINFORCED CONCRETE PIPE	4,310	
15 INCH REINFORCED CONCRETE PIPE	1,145	
18 INCH REINFORCED CONCRETE PIPE	917	
21 INCH REINFORCED CONCRETE PIPE	761	
24 INCH REINFORCED CONCRETE PIPE	2,606	
27 INCH REINFORCED CONCRETE PIPE	1,938	
6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	131	
8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	144	
12 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	16	
TOTAL PIPE LENGTH	12327	LF
ASSUMED WIDTH	3	LF
ASSUMED DEPTH	3	LF
ASSUME NEEDED ALONG 1% OF LENGTH WHEN CROSSING OTHER PIPES	123.3	LF
TOTAL PIPE VOLUME	1109.4	CF

B. OVER TRAFFIC SIGNAL CONDUIT IN ROADWAY

	(LF)	
	<u>LENGTH</u>	
3 INCH ELECTRICAL CONDUIT LENGTH	1489	LF
ASSUMED DEPTH	0.90	LF
ASSUMED WIDTH	1.5	LF
TOTAL PIPE VOLUME	2000.9	CF
3 INCH ELECTRICAL CONDUIT (DOUBLE) LENGTH	384.3	LF
ASSUMED DEPTH	0.90	LF
ASSUMED WIDTH	2	LF
TOTAL PIPE VOLUME	688.5	CF
3 INCH ELECTRICAL CONDUIT (TRIPLE)	40.1	LF
ASSUMED DEPTH	0.90	LF
ASSUMED WIDTH	2.5	LF
TOTAL PIPE VOLUME	89.9	CF
SUBTOTAL	3888.7	CF
CONVERSION FACTOR	27.00	CF/CY
SUBTOTAL	144.02	CY
SAY	150.0	CY

156.

CRUSHED STONE

TON

FOR CONTINGENCY PURPOSES 80.0 TON

SAY	80	TON
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170.

FINE GRADING AND COMPACTING

SY

	(SF)	
	<u>AREA</u>	
BENEATH FULL DEPTH PAVEMENT AREAS :	70319.0	
BENEATH LOAMED AREAS :	67,868	Note 1
BENEATH ALL CEMENT CONCRETE SIDEWALK AREAS:	160984.0	
BENEATH ALL CEMENT CONC. AT DRIVEWAY AREAS:	35196.0	
BENEATH ALL CEMENT CONCRETE WHEELCHAIR RAMPS	33,620	
BENEATH ALL HOT MIX ASPHALT WALK SURFACES:	563	
BENEATH ALL HOT MIX ASPHALT DRIVEWAYS:	13086.0	
BENEATH ALL BRICK WALK AREA:	258.0	
	<hr/>	
SUBTOTAL	381,894.0	
		SF
CONVERSION FACTOR	9.00	SF/SY
	<hr/>	
TOTAL	42,432.67	SY
	<hr/>	
SAY	42,500	SY

Area calculations located in back of book on pavement, sidewalk, and back of walk areas summary pages

Note 1. Area is sum of 4" loam, 3" Pine Bark Mulch, Tree Pit with Seed, and Tree Pit with Mulch in Sidewalk Areas

180.1

HEALTH AND SAFETY PLAN

LS

JOBWIDE LUMP SUM ITEM

SAY	1	LS
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180.2

**IMPLEMENTATION OF HEALTH AND SAFETY
PLAN**

HR

FOR ESTIMATING PURPOSES

SAY	60	HR
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180.3

PERSONEL PROTECTION LEVEL C UPGRADE

HR

FOR ESTIMATING PURPOSES

SAY	60	HR
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180.4

**MONITORING/HANDLING AND STOCKPILING OF
CONTAMINATED SOILS**

CY

FOR ESTIMATING PURPOSES

60

SAY	60	CY
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181.1

DISPOSAL OF CONTAMINATED SOIL

TON

FOR ESTIMATING PURPOSES

12

SAY	15	TON
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184.1

DISPOSAL OF TREATED WOOD PRODUCTS

TON

TWO RAILS

(FT)

<u>STREET</u>	<u>LENGTH</u>
CHURCH STREET	280.6

<u>TOTAL =</u>	280.6
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<u>TOTAL WOOD TIES =</u>	141
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<u>WOOD TIE DIMENSIONS =</u>	8' x 10" x 10"
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<u>WOOD TIES (CF) =</u>	784
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<u>WOOD TIES (TONS) =</u>	24
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FOUR RAILS

(FT)

<u>TOTAL =</u>	<u>LENGTH</u>
	1311.6

<u>TOTAL WOOD TIES =</u>	1313
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<u>WOOD TIE DIMENSIONS =</u>	8' x 10" x 10"
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<u>WOOD TIES (CF) =</u>	7285
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<u>WOOD TIES (TONS) =</u>	219
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TOTAL: 242.1 TONS

SAY	250	TONS
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201.5

CATCH BASIN - MUNICIPAL STANDARD

EA

1 STANDARD UNIT = 7.5 FEET IN DEPTH
MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY	DEPTH	PAY QUANTITY
MILL ST	00+76.38	Rt.	1	5.35	1.0
MILL ST	01+09.20	Rt.	1	7.5	1.0
TRAPELO RD	18+03.90	Lt.	1	7.5	1.0
TRAPELO RD	28+55.00	Lt.	1	7.55	1.0
TRAPELO RD	29+95.40	Lt.	1	7.5	1.0
TRAPELO RD	31+53.20	Lt.	1	2	1.0
TRAPELO RD	33+07.70	Rt.	1	7.5	1.0
LEXINGTON ST	03+93.30	Rt.	1	8.37	1.1
LEXINGTON ST	04+10.20	Rt.	1	7.5	1.0
LEXINGTON ST	04+38.50	Lt.	1	7.5	1.0
TRAPELO RD	34+60.40	Rt.	1	7.6	1.0
CHURCH ST	03+74.90	Lt.	1	6.85	1.0
CHURCH ST	03+32.90	Rt.	1	7.5	1.0
CHURCH ST	01+05.30	Rt.	1	7.5	1.0
TRAPELO RD	39+43.20	Lt.	1	7.5	1.0
TRAPELO RD	39+42.40	Rt.	1	7.5	1.0
TRAPELO RD	41+47.90	Rt.	1	7.5	1.0
TRAPELO RD	41+07.30	Rt.	1	7.5	1.0
TRAPELO RD	43+86.10	Rt.	1	7.5	1.0
TRAPELO RD	45+74.10	Rt.	1	7.5	1.0
TRAPELO RD	45+99.00	Rt.	1	7.5	1.0
TRAPELO RD	46+26.50	Rt.	1	7.5	1.0
TRAPELO RD	47+66.40	Rt.	1	7.5	1.0
TRAPELO RD	48+75.70	Lt.	1	7.5	1.0
TRAPELO RD	49+06.60	Lt.	1	7.5	1.0
TRAPELO RD	48+28.90	Rt.	1	7.5	1.0
TRAPELO RD	50+90.30	Rt.	1	7.5	1.0
TRAPELO RD	50+83.00	Rt.	1	7.5	1.0
TRAPELO RD	50+40.70	Rt.	1	7.5	1.0
TRAPELO RD	55+56.90	Lt.	1	7.5	1.0
TRAPELO RD	56+04.60	Lt.	1	7.5	1.0
TRAPELO RD	63+16.90	Lt.	1	7.5	1.0
TRAPELO RD	63+55.80	Lt.	1	7.5	1.0
TRAPELO RD	66+67.40	Rt.	1	7.5	1.0
TRAPELO RD	67+49.90	Lt.	1	7.5	1.0
TRAPELO RD	68+78.90	Rt.	1	7.5	1.0
HARRIET AVE	00+89.90	Rt.	1	7.67	1.0
TRAPELO RD	71+90.20	Lt.	1	7.5	1.0
TRAPELO RD	73+88.70	Rt.	1	7.5	1.0
TRAPELO RD	73+37.70	Rt.	1	7.5	1.0
TRAPELO RD	74+45.80	Lt.	1	7.5	1.0
TRAPELO RD	76+06.70	Rt.	1	7.5	1.0
TRAPELO RD	77+88.40	Lt.	1	7.5	1.0
TRAPELO RD	80+57.50	Lt.	1	7.5	1.0
TRAPELO RD	84+47.10	Rt.	1	7.5	1.0
TRAPELO RD	84+17.70	Rt.	1	7.5	1.0
TRAPELO RD	87+51.60	Lt.	1	7.5	1.0
TRAPELO RD	86+45.00	Lt.	1	7.5	1.0
TRAPELO RD	88+71.40	Rt.	1	7.5	1.0
TRAPELO RD	93+48.20	Lt.	1	7.5	1.0
TRAPELO RD	92+85.00	Lt.	1	7.5	1.0
TRAPELO RD	99+70.80	Lt.	1	7.5	1.0
TRAPELO RD	102+30.70	Rt.	1	7.05	1.0
TRAPELO RD	104+70.00	Lt.	1	5.84	1.0
BELMONT ST	105+37.30	Rt.	1	7.75	1.0
BELMONT ST	107+40.90	Rt.	1	7.5	1.0
BELMONT ST	108+78.60	Rt.	1	7.5	1.0
BELMONT ST	109+87.70	Rt.	1	7.5	1.0
BELMONT ST	111+15.50	Rt.	1	7.5	1.0
BELMONT ST	112+24.70	Rt.	1	7.5	1.0
BELMONT ST	113+32.90	Rt.	1	7.5	1.0
BELMONT ST	110+25.00	Lt.	1	7.5	1.0
BELMONT ST	114+85.80	Lt.	1	8.53	1.1
BELMONT ST	115+16.10	Lt.	1	7.5	1.0
BELMONT ST	115+46.00	Lt.	1	7.5	1.0
BELMONT ST	117+03.90	Lt.	1	7.5	1.0
BELMONT ST	117+37.50	Lt.	1	7.5	1.0
BELMONT ST	117+56.40	Rt.	1	7.5	1.0
BELMONT ST	118+77.10	Rt.	1	7.5	1.0
BELMONT ST	119+18.10	Lt.	1	7.5	1.0
BELMONT ST	119+43.40	Lt.	1	7.5	1.0
BELMONT ST	118+93.80	Rt.	1	7.5	1.0
BELMONT ST	119+19.10	Rt.	1	7.5	1.0
BELMONT ST	119+75.50	Rt.	1	7.5	1.0
SCHOOL ST	00+85.50	Rt.	1	7.5	1.0
SCHOOL ST	00+65.80	Lt.	1	7.5	1.0
BELMONT ST	121+49.80	Rt.	1	7.5	1.0
NEWTON ST	00+72.20	Lt.	1	7.5	1.0

NEWTON ST	00+49.70	Rt.	1	7.5	1.0
BELMONT ST	124+36.00	Rt.	1	7.5	1.0
BELMONT ST	125+76.20	Rt.	1	7.5	1.0
WORCESTER ST	00+66.70	Lt.	1	7.5	1.0
WORCESTER ST	00+56.20	Rt.	1	7.5	1.0
BELMONT ST	127+38.50	Lt.	1	7.5	1.0
BELMONT ST	127+47.00	Lt.	1	7.5	1.0
BELMONT ST	127+72.60	Lt.	1	7.5	1.0
BELMONT ST	130+68.20	Lt.	1	7.5	1.0
BELMONT ST	132+17.50	Lt.	1	7.5	1.0
BELMONT ST	134+37.50	Lt.	1	7.5	1.0
BELMONT ST	137+98.40	Lt.	1	7.5	1.0
BELMONT ST	140+49.60	Lt.	1	7.5	1.0
BELMONT ST	145+78.00	Lt.	1	7.36	1.0
BELMONT ST	145+90.20	Rt.	1	7.5	1.0
BELMONT ST	128+19.40	Rt.	1	7.5	1.0
BELMONT ST	128+68.00	Rt.	1	7.5	1.0
TEMPLETON PRK	01+05.60	Rt.	1	7.2	1.0
TEMPLETON PRK	01+37.50	Lt.	1	7.5	1.0

TOTAL: 96.0 96.3

SAY 97

201.52

CATCH BASIN - MUNICIPAL STANDARD TYPE 2

EA

1 STANDARD UNIT = 7.5 FEET IN DEPTH
 MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY
MILL ST	03+33.60	Rt.	1
TRAPELO RD	30+29.60	Rt.	1

TOTAL 2.00 EA

SAY	2	EA
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201.53

CATCH BASIN - MUNICIPAL STANDARD TYPE 3

EA

1 STANDARD UNIT = 7.5 FEET IN DEPTH
 MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY	DEPTH	PAY QUANTITY
MILL ST	00+69.60	Rt.	1	7.5	1.0
MILL ST	01+42.70	Rt.	1	7.5	1.0
TRAPELO RD	29+17.80	Rt.	1	7.5	1.0
TRAPELO RD	48+29.10	Lt.	1	7.5	1.0
TRAPELO RD	55+17.10	Rt.	1	7.5	1.0
TRAPELO RD	58+18.50	Rt.	1	7.5	1.0
TRAPELO RD	60+46.40	Rt.	1	7.5	1.0
TRAPELO RD	63+21.40	Rt.	1	7.5	1.0
TRAPELO RD	63+59.00	Rt.	1	7.5	1.0
HARRIET AVE	01+25.10	Rt.	1	7.5	1.0
TRAPELO RD	78+45.60	Rt.	1	7.4	1.0
TRAPELO RD	81+54.40	Rt.	1	7.5	1.0
COMMON ST N	00+69.60	Rt.	1	7.5	1.0
TRAPELO RD	90+48.20	Lt.	1	7.5	1.0
TRAPELO RD	99+72.80	Rt.	1	6.9	1.0
TRAPELO RD	104+29.30	Lt.	1	7.5	1.0
BELMONT ST	106+79.20	Rt.	1	7.5	1.0
BELMONT ST	107+45.60	Rt.	1	7.5	1.0
BELMONT ST	118+89.80	Lt.	1	7.5	1.0
BELMONT ST	123+32.40	Lt.	1	7.5	1.0
BELMONT ST	125+44.20	Lt.	1	7.5	1.0
BELMONT ST	128+49.40	Lt.	1	7.5	1.0
BELMONT ST	134+98.40	Rt.	1	7.5	1.0
BELMONT ST	139+93.80	Rt.	1	7.5	1.0
BELMONT ST	142+84.90	Lt.	1	7.5	1.0
BELMONT ST	140+85.40	Rt.	1	6.5	1.0

TOTAL: 26.0 EA

SAY	26	EA
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KDL

201.54

CATCH BASIN - MUNICIPAL STANDARD TYPE 4

EA

1 STANDARD UNIT = 7.5 FEET IN DEPTH
MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY
TRAPELO RD	19+56.30	Rt.	1
TRAPELO RD	20+77.60	Rt.	1

TOTAL: 2.0 EA

SAY	2	EA
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202.

MANHOLE

EA

1 STANDARD UNIT = 6.5 FEET IN DEPTH
MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	DEPTH	Pay QUANTITY	Act QUANTITY
MILL ST	00+76.60	Rt.	5.35	1.0	1
MILL ST	01+14.30	Rt.	6.45	1.0	1
TRAPELO RD	29+19.20	Rt.	3.7	1.0	1
TRAPELO RD	30+37.80	Rt.	6.5	1.0	1
TRAPELO RD	30+08.70	Lt.	3.2	1.0	1
TRAPELO RD	31+47.40	Rt.	6.5	1.0	1
TRAPELO RD	32+33.70	Rt.	6.55	1.0	1
TRAPELO RD	33+12.80	Rt.	6.55	1.0	1
TRAPELO RD	33+48.60	Rt.	6.5	1.0	1
LEXINGTON ST	00+82.80	Lt.	6.5	1.0	1
CHURCH ST	03+34.60	Rt.	3.91	1.0	1
CHURCH ST	00+99.00	Rt.	5.65	1.0	1
TRAPELO RD	39+45.80	Rt.	4.6	1.0	1
TRAPELO RD	40+83.60	Lt.	5.15	1.0	1
TRAPELO RD	45+81.10	Rt.	6.02	1.0	1
TRAPELO RD	46+33.80	Rt.	6.5	1.0	1
TRAPELO RD	47+58.00	Rt.	5.45	1.0	1
TRAPELO RD	48+41.70	Lt.	3.7	1.0	1
TRAPELO RD	48+35.40	Rt.	5.7	1.0	1
TRAPELO RD	48+46.90	Rt.	6.4	1.0	1
TRAPELO RD	50+55.80	Rt.	6.5	1.0	1
TRAPELO RD	50+66.70	Rt.	6.23	1.0	1
TRAPELO RD	56+05.50	Lt.	6.58	1.0	1
TRAPELO RD	55+51.90	Rt.	6.63	1.0	1
TRAPELO RD	55+95.50	Rt.	6.5	1.0	1
TRAPELO RD	58+22.70	Rt.	6.39	1.0	1
TRAPELO RD	58+59.70	Rt.	6.5	1.0	1
TRAPELO RD	59+77.70	Rt.	6.5	1.0	1
TRAPELO RD	60+88.80	Rt.	6.5	1.0	1
TRAPELO RD	63+18.70	Rt.	5.78	1.0	1
TRAPELO RD	63+54.70	Lt.	4.2	1.0	1
TRAPELO RD	66+63.90	Rt.	6.4	1.0	1
TRAPELO RD	67+49.30	Lt.	5.38	1.0	1
HARRIET AVE	00+89.90	Rt.	6.87	1.1	1
TRAPELO RD	71+46.90	Lt.	6.35	1.0	1
TRAPELO RD	73+31.80	Rt.	6.8	1.0	1
TRAPELO RD	73+83.70	Rt.	7.9	1.2	1
TRAPELO RD	74+54.90	Lt.	7.4	1.1	1
TRAPELO RD	77+82.70	Lt.	4.7	1.0	1
TRAPELO RD	80+51.50	Lt.	5.3	1.0	1
TRAPELO RD	76+06.70	Rt.	8.75	1.3	1
TRAPELO RD	78+29.10	Rt.	4.7	1.0	1
TRAPELO RD	84+28.70	Lt.	7.65	1.2	1
TRAPELO RD	84+29.60	Rt.	7.9	1.2	1
TRAPELO RD	85+03.20	Lt.	6.94	1.1	1
TRAPELO RD	86+47.30	Lt.	7.1	1.1	1
TRAPELO RD	88+24.80	Rt.	5.1	1.0	1
TRAPELO RD	90+40.60	Lt.	7.85	1.2	1
TRAPELO RD	93+13.30	Lt.	6.55	1.0	1
TRAPELO RD	100+99.10	Lt.	5.4	1.0	1
TRAPELO RD	104+30.80	Lt.	5.15	1.0	1
BELMONT ST	106+86.40	Rt.	7.2	1.1	1
BELMONT ST	107+43.70	Lt.	6.5	1.0	1
BELMONT ST	107+52.50	Rt.	7.75	1.2	1
BELMONT ST	108+85.60	Rt.	7.62	1.2	1
BELMONT ST	110+27.00	Lt.	6.5	1.0	1
BELMONT ST	111+21.40	Rt.	6.73	1.0	1
BELMONT ST	112+31.80	Rt.	6.52	1.0	1
BELMONT ST	112+65.20	Lt.	6.5	1.0	1
BELMONT ST	113+40.50	Rt.	6.9	1.1	1
BELMONT ST	115+39.60	Lt.	5.95	1.0	1
BELMONT ST	115+41.70	Lt.	6.15	1.0	1
BELMONT ST	117+28.20	Lt.	6.5	1.0	1
BELMONT ST	117+44.90	Lt.	6.5	1.0	1
BELMONT ST	118+01.70	Rt.	6.5	1.0	1
BELMONT ST	119+01.90	Rt.	6.3	1.0	1
BELMONT ST	119+34.10	Lt.	7.1	1.1	1
BELMONT ST	119+30.50	Lt.	6.5	1.0	1
BELMONT ST	119+07.40	Rt.	6.5	1.0	1
BELMONT ST	119+82.80	Rt.	6.14	1.0	1
SCHOOL ST S	00+55.10	Lt.	6.5	1.0	1
BELMONT ST	120+69.50	Rt.	6.6	1.0	1
NEWTON ST	00+68.20	Lt.	5.96	1.0	1
BELMONT ST	123+54.60	Lt.	4.51	1.0	1
BELMONT ST	123+62.30	Lt.	6.5	1.0	1
BELMONT ST	123+61.30	Lt.	5.89	1.0	1
BELMONT ST	124+32.40	Rt.	6.55	1.0	1
BELMONT ST	125+66.00	Lt.	6.5	1.0	1
WORCESTER ST	00+34.90	Lt.	5.83	1.0	1
BELMONT ST	125+83.20	Rt.	6.2	1.0	1
BELMONT ST	127+58.90	Lt.	6.5	1.0	1

BELMONT ST	127+54.30	Lt.	6.15	1.0	1
BELMONT ST	128+70.20	Lt.	6.5	1.0	1
BELMONT ST	130+94.60	Lt.	6.5	1.0	1
BELMONT ST	132+17.50	Lt.	6.5	1.0	1
BELMONT ST	134+84.40	Lt.	6.6	1.0	1
BELMONT ST	135+04.30	Rt.	7	1.1	1
BELMONT ST	138+08.60	Lt.	8.33	1.3	1
BELMONT ST	140+95.10	Rt.	4.6	1.0	1
BELMONT ST	142+75.70	Lt.	8.55	1.3	1
BELMONT ST	143+30.50	Lt.	7.7	1.2	1
BELMONT ST	144+51.40	Lt.	6	1.0	1
BELMONT ST	145+72.30	Lt.	4.02	1.0	1
BELMONT ST	145+97.20	Rt.	4.2	1.0	1
TOTAL				96	93 EA
SAY				97	EA

202.2

MANHOLE (9 to 14 FOOT DEPTH)

EA

1 STANDARD UNIT = 9 FEET IN DEPTH
 MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	DEPTH	PAY QTY	ACT QTY
TRAPELO RD	46+59.70	Rt.	11.45	1.2	1
TRAPELO RD	71+34.80	Rt.	9.8	1.0	1
BELMONT ST	121+54.20	Rt.	11	1.2	1
OXFORD ROAD	02+56.00	Lt.	9.85	1.0	1
BELMONT ST	140+73.90	Lt.	10.9	1.1	1

TOTAL: 5.6 EA

SAY	6	EA
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203.

SPECIAL MANHOLE

EA

STREET	STA.	SIDE	QUANTITY
TRAPELO ROAD	87+33.50	Lt.	1.0
OXFORD ROAD	05+03.20	Lt.	1.0

TOTAL: 2 EA

SAY	2	EA
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204.

GUTTER INLET

EA

STREET	STA.	SIDE	QUANTITY
TRAPELO RD	21+38.80	Lt.	1
TRAPELO RD	28+51.90	Lt.	1
TRAPELO RD	47+91.90	Lt.	1
TRAPELO RD	87+54.30	Lt.	1
TRAPELO RD	88+40.70	Lt.	1
TRAPELO RD	92+89.10	Rt.	1
TRAPELO RD	93+29.10	Rt.	1
BELMONT ST	114+85.90	Lt.	1
CONTINGENCY			7

TOTAL: 15 EA

SAY	15	EA
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207.1

DROP INLET, TYPE BF

EA

1 STANDARD UNIT = 4 FEET AND 10 INCHES IN DEPTH
MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY
MILL ST	01+16.20	Rt.	1

TOTAL: 1 EA

SAY	1	EA
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208.1

DROP INLET, TYPE CF

EA

1 STANDARD UNIT = 6.5 FEET IN DEPTH
MEASURED FROM GRATE OR COVER TO TOP OF FLOORING

STREET	STA.	SIDE	QUANTITY
TRAPELO RD	18+55.60	Rt.	1
MILL STREET	00+65.80	Rt.	1
HARRIET AVE	00+89.10	Lt.	1

TOTAL: 3 EA

SAY	3	EA
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220.

DRAINAGE STRUCTURE ADJUSTED

EA

ADJUSTMENTS 6 INCHES OR LESS
DRAINAGE ADJUST INCLUDES MWRA MANHOLES

ITEM NO.	FROM ITEM	QTY.
201.5	CATCH BASIN - MUNICIPAL STANDARD	97
201.52	CATCH BASIN - MUNICIPAL STANDARD TYPE 2	2
201.53	CATCH BASIN - MUNICIPAL STANDARD TYPE 3	26
201.54	CATCH BASIN - MUNICIPAL STANDARD TYPE 4	2
202.	MANHOLE	97
202.2	MANHOLE (9 TO 14 FOOT DEPTH)	6
203.	SPECIAL MANHOLE	2
204.	GUTTER INLET	15
220.1	DRAINAGE STRUCTURE REMOVED AND RESET	1
220.3	DRAINAGE STRUCTURE CHANGE IN TYPE	6
220.5	DRAINAGE STRUCTURE REMODELED	18

PROPOSED STRUCTURES SUB-TOTAL 272

STREET	STATION		QTY.	DMH	CB
	START	END			
TRAPELO RD	15+50.00	22+00.00	3	2	1
MILL ST	00+00.00	04+00.00	3	1	2
TRAPELO RD	22+00.00	27+00.00	2	2	0
TRAPELO RD	27+00.00	33+00.00	4	4	0
PLEASANT ST	0+00.00	01+00.00	2	2	0
TRAPELO RD	33+00.00	39+00.00	6	6	0
LEXINGTON ST	00+00.00	06+00.00	4	2	2
CHURCH ST	00+00.00	04+00.00	4	2	2
TRAPELO RD	40+00.00	44+00.00	4	2	2
TRAPELO RD	44+00.00	50+00.00	3	3	0
TRAPELO RD	50+00.00	55+50.00	0	0	0
TRAPELO RD	55+50.00	61+00.00	1	1	0
TRAPELO RD	61+00.00	67+50.00	4	4	0
TRAPELO RD	67+50.00	73+00.00	4	3	1
HARRIET AVE	00+00.00	02+00.00	0	0	0
TRAPELO RD	73+00.00	79+00.00	3	3	0
TRAPELO RD	79+00.00	84+50.00	5	5	0
TRAPELO RD	84+50.00	90+50.00	4	4	0
COMMON ST (N)	00+00.00	6+00.00	3	1	2
COMMON ST (S)	00+00.00	5+00.00	3	0	3
CUSHING AVE			2	0	2
TRAPELO RD	90+50.00	96+00.00	2	2	0
TRAPELO RD	96+00.00	102+00.00	9	6	3
BELMONT ST	102+00.00	107+00.00	4	4	0
BELMONT ST	107+00.00	113+00.00	2	1	1
BELMONT ST	113+00.00	118+00.00	8	3	5
BELMONT ST	118+00.00	123+00.00	5	2	3
SCHOOL ST (S)	00+00.00	03+00.00	2	0	2
BELMONT ST	123+00.00	129+00.00	8	3	5
BELMONT ST	129+00.00	134+00.00	4	0	4
BELMONT ST	134+00.00	140+00.00	4	3	1
TEMPLETON PKWY	00+00.00	02+00.00	1	1	0
ARLINGTON ST	00+00.00	05+00.00	0	0	0
BELMONT ST	140+00.00	145+00.00	7	5	2
OXFORD AVE	00+00.00	05+63.93	0	0	0
BELMONT ST	145+00.00	150+00.00	4	3	1
EXISTING STRUCTURES SUB-TOTAL			124	80	44

Adjusted 3 times, once before Milling, once after binder, and once before Surface Course

TOTAL 396 EA

ADJUSTED 3 TIMES= 1188

SAY	1,190	EA
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220.1

DRAINAGE STRUCTURE REMOVED AND RESET

EA

STREET	STA.	SIDE	QUANTITY
Trapelo Road	25+40.00	Lt.	1

TOTAL 1 EA

SAY	1	EA
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220.2

DRAINAGE STRUCTURE REBUILT

FT

STREET	STA.	SIDE	QUANTITY	LENGTH
CONTINGENCY				10

TOTAL 10 FT

SAY	10	FT
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220.3

DRAINAGE STRUCTURE CHANGE IN TYPE

EA

STREET	STA.	SIDE	TYPE	QUANTITY
TRAPELO RD	21+40.98	Lt.	DMH	1.0
TRAPELO RD	28+72.20	Rt.	DMH	1.0
TRAPELO RD	48+89.82	Lt.	DMH	1.0
TRAPELO RD	68+43.22	Lt.	DMH	1.0
TRAPELO RD	88+12.53	Lt.	DMH	1.0
TRAPELO RD	93+22.59	Rt.	DMH	1.0

TOTAL 6 EA

SAY	6	EA
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4

220.4

GALVANIZED CURB COVER

EA

STREET	STA.	SIDE	TYPE	QUANTITY
TRAPELO RD	30+65.30	Lt.	EMH	1.0
CONTINGENCY				4.0

TOTAL 5 EA

SAY	5	EA
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220.5

DRAINAGE STRUCTURE REMODELED

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>TYPE</u>	<u>QTY.</u>
TRAPELO ROAD	28+72.20	Rt.	DMH	1.0
TRAPELO ROAD	34+25.50	Lt.	CB	1.0
TRAPELO ROAD	34+65.80	Lt.	DMH	1.0
TRAPELO ROAD	35+33.70	Lt.	CB	1.0
TRAPELO ROAD	41+33.40	Rt.	CB	1.0
TRAPELO ROAD	41+45.00	Lt.	DMH	1.0
TRAPELO ROAD	48+49.57	Lt.	DMH	1.0
TRAPELO ROAD	60+62.70	Lt.	CB	1.0
TRAPELO ROAD	82+74.30	Lt.	CB	1.0
COMMON ST N	04+27.70	Lt.	CB	1.0
COMMON ST N	04+85.90	Rt.	CB	1.0
TRAPELO ROAD	100+15.11	Rt.	CB	1.0
BELMONT ROAD	120+82.12	Lt.	CB	1.0
BELMONT ROAD	132+73.60	Rt.	CB	1.0
BELMONT ROAD	135+03.70	Rt.	CB	1.0
BELMONT ROAD	137+80.43	Rt.	CB	1.0
BELMONT ROAD	143+02.92	Rt.	CB	1.0
BELMONT ROAD	145+27.23	Rt.	CB	1.0

TOTAL 18 EA

SAY	18	EA
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220.6

SANITARY STRUCTURE REBUILT

FT

ASSUME 5% OF ADJUSTED (ITEM 220.7) 7

TOTAL 7 EA

Assume each has to be rebuilt for four feet 26 FT

SAY	30	FT
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220.7

SANITARY STRUCTURE ADJUSTED

EA

ADJUSTMENTS 6 INCHES OR LESS

<u>STREET</u>	<u>STATION</u>		<u>QTY.</u>
	<u>START</u>	<u>END</u>	
TRAPELO RD	15+50.00	22+00.00	5
MILL ST	00+00.00	04+00.00	5
TRAPELO RD	22+00.00	27+00.00	5
TRAPELO RD	27+00.00	33+00.00	2
PLEASANT ST	00+00.00	01+00.00	
TRAPELO RD	33+00.00	39+00.00	5
LEXINGTON ST	00+00.00	06+00.00	1
CHURCH ST	00+00.00	04+00.00	1
TRAPELO RD	40+00.00	44+00.00	4
TRAPELO RD	44+00.00	50+00.00	9
TRAPELO RD	50+00.00	55+50.00	4
TRAPELO RD	55+50.00	61+00.00	5
TRAPELO RD	61+00.00	67+50.00	7
TRAPELO RD	67+50.00	73+00.00	6
HARRIET AVE	00+00.00	02+00.00	2
TRAPELO RD	73+00.00	79+00.00	5
TRAPELO RD	79+00.00	84+50.00	4
TRAPELO RD	84+50.00	909+50.00	3
COMMON ST (N)	00+00.00	06+00.00	2
COMMON ST (S)	00+00.00	05+00.00	2
CUSHING AVE			
TRAPELO RD	90+50.00	96+00.00	2
TRAPELO RD	96+00.00	102+00.00	4
BELMONT ST	102+00.00	107+00.00	3
BELMONT ST	107+00.00	113+00.00	1
BELMONT ST	113+00.00	118+00.00	5
BELMONT ST	118+00.00	123+00.00	5
SCHOOL ST (N)	00+00.00	02+93.00	1
SCHOOL ST (S)	00+00.00	03+00.00	1
BELMONT ST	123+00.00	129+00.00	8
BELMONT ST	129+00.00	134+00.00	4
BELMONT ST	134+00.00	140+00.00	7
GRVOE ST	00+00.00	02+25.00	2
TEMPLETON PKWY	00+00.00	02+00.00	1
ARLINGTON ST	00+00.00	05+00.00	1
BELMONT ST	140+00.00	145+00.00	6
OXFORD AVE	00+00.00	05+63.93	2
BELMONT ST	145+00.00	150+00.00	2

SUBTOTAL 132 EA

MINUS ASSUME 5% REMODELED - 7

MINUS ASSUME 5% REBUILT - 7

TOTAL 119 EA

SAY	119	EA
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220.8

SANITARY STRUCTURE REMODELED

EA

ASSUME 5% OF ADJUSTED (ITEM 220.7) 7

TOTAL 7 EA

SAY	7	EA
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222.3

**FRAME AND GRATE (OR COVER) MUNICIPAL
 STANDARD**

EA

	MANHOLE:	93	EACH
	MANHOLE (9 TO 14 FOOT DEPTH)	6	EACH
	SPECIAL MANHOLE	2	EACH
	CATCH BASIN TYPE 3	26	EACH
	STRUCTURE CHANGE IN TYPE	6	EACH
	SUBTOTAL	133	EA
REUSABLE COVERS (FROM ITEM 145 & 146, *ASSUMING 10% IS UNUSABLE)		7	EA
	TOTAL PARTICIPATING	126	EA
	CATCH BASIN	97	EACH
	CATCH BASIN TYPE 2	2	EACH
	CATCH BASIN TYPE 3	26	EACH
	GUTTER INLET	15	EACH
	DROP INLET, TYPE BF (2x)	2	EACH
	DROP INLET, TYPE CF	3	EACH
	SUBTOTAL	145	EA
REUSABLE COVERS (FROM ITEM 145, 146, & 220.3, *ASSUMING 20% IS UNUSABLE)		47	EA
	TOTAL PARTICIPATING	98	EA
	TOTAL	224	
PARTICIPATING	SAY	225	EA

223.

FRAME AND GRATE (OR COVER)
REMOVED AND RESET

EA

	<u>MH</u> <u>QUANT.</u>	<u>CB</u> <u>QUANT.</u>	
FROM ITEM 223.1	7	42	
TOTAL	7	42	EA
SAY	49	EA	

223.1

FRAME AND GRATE (OR COVER)
REMOVED AND STACKED

EA

<u>STREET</u>	<u>STATION</u> <u>START</u> <u>END</u>	<u>MH</u> <u>QUANT.</u>	<u>CB</u> <u>QUANT.</u>	
FROM ITEM 145 (ASSUMING 90% REUSED IN PROJECT)		4	44	
FROM ITEM 146 (ASSUMING 90% USED IN PROJECT)		4	9	
	SUBTOTAL	8	53	EA
ASSUME 90% OF MH COVERS AND 80% OF CB GRATES ARE RE-USABLE AND TO BE RE-INSALLED				
		7	42	EA
TO BE STACKED FOR REMOVAL BY THE TOWN:				
		1	11	EA
	SAY	12	EA	

224.12

12 INCH HOOD

EA

Hood per 12" new catchbasin or existing catchbasin that is modified

CATCH BASIN	97	EACH
CATCH BASIN TYPE 2	2	EACH
CATCH BASIN TYPE 3	26	EACH
CATCH BASIN TYPE 4	2	EACH

TOTAL: 127 EA

SAY	127	EA
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227.4

MASONRY PLUG

SF

A. DRAINAGE PIPE

<u>STREET</u>	<u>STA.</u>	<u>(LF)</u> <u>DIAMETER</u>	<u>(SF)</u> <u>AREA</u>
MILL ST	01+08	1.00	0.79
TRAPELO RD.	18+09	0.83	0.55
TRAPELO RD.	34+67	0.83	0.55
LEXINGTON ST.	04+53	0.83	0.55
LEXINGTON ST.	04+53	0.83	0.55
CHURCH ST.	00+99	0.83	0.55
TRAPELO RD.	47+61	0.67	0.35
TRAPELO RD.	48+25	0.83	0.55
TRAPELO RD.	48+29	0.83	0.55
TRAPELO RD.	48+32	0.83	0.55
TRAPELO RD.	48+46	0.83	0.55
TRAPELO RD.	55+95	1.00	0.79
TRAPELO RD.	74+09	1.25	1.23
TRAPELO RD.	75+21	1.25	1.23
TRAPELO RD.	73+36	1.75	2.40
TRAPELO RD.	75+36	1.75	2.40
TRAPELO RD.	78+29	0.83	0.55
TRAPELO RD.	78+29	0.83	0.55
TRAPELO RD.	78+72	0.83	0.55
TRAPELO RD.	84+28	1.25	1.23
TRAPELO RD.	84+29	1.25	1.23
TRAPELO RD.	84+97	1.50	1.77
TRAPELO RD.	86+45	0.83	0.55
BELMONT ST	88+14	0.83	0.55
COMMON ST.	00+54	1.00	0.79
BELMONT ST	102+47	1.00	0.79
BELMONT ST	104+87	1.00	0.79
BELMONT ST	113+11	1.00	0.79
BELMONT ST	125+64	1.25	1.23
BELMONT ST	125+67	1.25	1.23
BELMONT ST	127+53	1.25	1.23
BELMONT ST	127+55	1.25	1.23

TOTAL AREA DRAINAGE PIPES 28.29 SF

B. SEWER PIPES

<u>STREET</u>	<u>STA.</u>	<u>(LF)</u> <u>DIAMETER</u>	<u>(SF)</u> <u>AREA</u>
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TOTAL AREA SEWER PIPES 0.00 SF

C. ELECTRICAL CONDUIT

<u>STREET</u>	<u>STA.</u>	<u>(LF)</u> <u>DIAMETER</u>	<u>(SF)</u> <u>AREA</u>
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TOTAL AREA ELECTRICAL CONDUIT 0.00 SF

D. WATER PIPES

<u>STREET</u>	<u>STA.</u>	<u>(LF)</u> <u>DIAMETER</u>	<u>(SF)</u> <u>AREA</u>
TRAPELO RD.	49+02	0.50	0.20
TRAPELO RD.	49+10	0.50	0.20
TRAPELO RD.	47+59	0.50	0.20
TRAPELO RD.	47+70	0.50	0.20
TRAPELO RD.	48+22	0.50	0.20
TRAPELO RD.	48+34	0.50	0.20
TRAPELO RD.	55+52	0.67	0.35
TRAPELO RD.	55+65	0.67	0.35
TRAPELO RD.	76+02	0.50	0.20

TRAPELO RD.	76+12	0.50	0.20
BELMONT ST	139+53	0.50	0.20

TOTAL AREA WATER PIPES 2.46 SF

E. GAS PIPES

<u>STREET</u>	<u>STA.</u>	<u>(LF) DIAMETER</u>	<u>(SF) AREA</u>
TRAPELO RD.	39+39	0.50	0.20
TRAPELO RD.	39+48	0.50	0.20
TRAPELO RD.	71+84	0.50	0.20
TRAPELO RD.	71+87	0.50	0.20
TRAPELO RD.	71+97	0.50	0.20
TRAPELO RD.	74+40	0.50	0.20
TRAPELO RD.	74+42	0.50	0.20
TRAPELO RD.	74+50	0.50	0.20
TRAPELO RD.	74+52	0.50	0.20

TOTAL AREA WATER PIPES 1.77 SF

TOTAL PARTICIPATING 32.52 SF

TOTAL NON-PARTICIPATING 0.00 SF

PARTICIPATING	SAY	35.0	SF
NON-PARTICIPATING	SAY	0.0	SF

238.08

8 INCH DUCTILE IRON PIPE

FT

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
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CONTINGENCY

30

TOTAL 30.0 LF

SAY	30	LF
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238.10

10 INCH DUCTILE IRON PIPE

FT

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
TRAPELO RD	GI	28+51.90	Lt.	4	TRAPELO RD	28+55.00	TYPE 1	Lt.
TRAPELO RD	TYPE 1	28+55.00	Lt.	18	TRAPELO RD	28+62.44	DMH	Lt.
TRAPELO RD	DMH	30+08.70	Lt.	50	TRAPELO RD	30+61.05	DMH	Lt.
TRAPELO RD	TYPE 1	29+95.40	Lt.	26	TRAPELO RD	30+08.70	DMH	Lt.
TRAPELO RD	TYPE 1	31+53.20	Lt.	12	TRAPELO RD	31+62.74	DMH	Lt.
CHURCH ST	TYPE 1	03+74.90	Lt.	47	CHURCH ST	03+34.60	DMH	Rt.
TRAPELO RD	GI	47+91.90	Lt.	36	TRAPELO RD	48+29.10	TYPE 3	Lt.
TRAPELO RD	GI	87+54.30	Lt.	30	COMMON ST N	00+69.60	TYPE 3	Rt.
TRAPELO RD	TYPE 3	99+72.80	Rt.	41	TRAPELO RD	100+14.88	CB	Rt.
BELMONT ST	TYPE 1	104+70.00	Lt.	18	BELMONT ST	104+90.50	DMH	Lt.
CONTINGENCY				50				
TOTAL				332.0	LF			
SAY				340	LF			

238.12

12 INCH DUCTILE IRON PIPE

FT

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	(LF) <u>INVERT. ELEV.</u>	(LF) <u>LENGTH</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>	(LF) <u>INVERT. ELEV.</u>
TRAPELO RD	DMH	87+33.50	Lt.		24	87+47.84	DMH	Lt.	
TRAPELO RD	DMH	87+33.50	Lt.		24	87+47.84	DMH	Lt.	
TRAPELO RD	TYPE 1	40+47.90	Rt.		3	40+55.10	DMH	Rt.	

TOTAL 27.0 LF

SAY	30	LF
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241.12

12 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
MILL ST	TYPE 2	03+33.60	Rt.	13	MILL ST	03+20.70	DMH	Rt.
MILL ST	TYPE 3	01+42.70	Rt.	25	MILL ST	01+14.30	DMH	Rt.
MILL ST	TYPE 1	01+09.20	Rt.	1	MILL ST	01+14.30	DMH	Rt.
MILL ST	DMH	01+14.30	Rt.	35	MILL ST	00+76.60	DMH	Rt.
MILL ST	DMH	00+76.60	Rt.	21	MILL ST	00+65.80	TYPE 1	Rt.
MILL ST	TYPE 3	00+69.60	Rt.	1	MILL ST	00+76.60	DMH	Rt.
TRAPELO RD	DMH	17+47.27	Rt.	112	TRAPELO RD	18+55.60	TYPE CF	Rt.
TRAPELO RD	TYPE 1	18+03.80	Lt.	4	TRAPELO RD	18+08.75	DMH	Lt.
TRAPELO RD	TYPE 1	28+52.89	Lt.	4	TRAPELO RD	28+55.89	DMH	Lt.
TRAPELO RD	DMH	30+37.80	Rt.	4	TRAPELO RD	30+29.60	TYPE 2	Rt.
TRAPELO RD	DMH	33+12.80	Rt.	2	TRAPELO RD	33+07.70	TYPE 1	Rt.
LEXINGTON ST	DMH	00+82.80	Lt.	6	LEXINGTON ST	00+87.70	DMH	Lt.
LEXINGTON ST	TYPE 1	04+38.50	Lt.	28	LEXINGTON ST	04+56.40	DMH	Rt.
LEXINGTON ST	TYPE 1	04+10.20	Rt.	24	LEXINGTON ST	03+93.30	TYPE 1	Rt.
LEXINGTON ST	TYPE 1	03+93.30	Rt.	64	LEXINGTON ST	04+56.40	DMH	Rt.
TRAPELO RD	TYPE 1	34+60.40	Rt.	2	TRAPELO RD	34+65.80	DMH	Rt.
CHURCH ST	DMH	03+34.60	Rt.	6	CHURCH ST	03+32.90	TYPE 1	Rt.
CHURCH ST	DMH	03+34.60	Rt.	13	CHURCH ST	03+23.00	DMH	Rt.
CHURCH ST	TYPE 1	01+05.30	Rt.	3	CHURCH ST	00+99.00	DMH	Rt.
TRAPELO RD	DMH	39+45.80	Lt.	14	TRAPELO RD	39+43.20	TYPE 1	Lt.
TRAPELO RD	TYPE 1	39+42.40	Rt.	33	TRAPELO RD	39+45.80	DMH	Rt.
TRAPELO RD	TYPE 1	40+80.99	Lt.	14	TRAPELO RD	40+83.60	DMH	Lt.
TRAPELO RD	TYPE 1	40+80.99	Lt.	14	TRAPELO RD	40+83.60	DMH	Lt.
TRAPELO RD	DMH	41+21.68	Rt.	12	TRAPELO RD	41+07.30	TYPE 1	Rt.
TRAPELO RD	TYPE 1	43+86.10	Rt.	189	TRAPELO RD	45+81.10	DMH	Rt.
TRAPELO RD	DMH	45+81.10	Rt.	3	TRAPELO RD	45+74.10	TYPE 1	Rt.
TRAPELO RD	DMH	45+81.10	Rt.	48	TRAPELO RD	46+33.80	DMH	Rt.
TRAPELO RD	DMH	46+33.80	Rt.	24	TRAPELO RD	46+59.70	DMH 9-14	Rt.
TRAPELO RD	TYPE 1	45+99.00	Rt.	33	TRAPELO RD	46+33.80	DMH	Rt.
TRAPELO RD	DMH	46+33.80	Rt.	32	TRAPELO RD	46+26.50	TYPE 1	Rt.
TRAPELO RD	DMH	47+58.00	Rt.	4	TRAPELO RD	47+66.40	TYPE 1	Rt.
TRAPELO RD	DMH	47+58.00	Rt.	73	TRAPELO RD	48+35.40	DMH	Rt.
TRAPELO RD	GICI	47+91.90	Lt.	36	TRAPELO RD	48+29.10	TYPE 3	Lt.
TRAPELO RD	TYPE 3	48+29.10	Lt.	20	TRAPELO RD	48+49.57	DMH	Lt.
TRAPELO RD	DMH	48+89.80	Lt.	14	TRAPELO RD	49+06.60	TYPE 1	Lt.
TRAPELO RD	TYPE 1	48+29.10	Rt.	3	TRAPELO RD	48+35.40	DMH	Rt.
TRAPELO RD	DMH	48+35.40	Rt.	9	TRAPELO RD	48+46.90	DMH	Rt.
TRAPELO RD	DMH	48+46.90	Rt.	204	TRAPELO RD	50+55.80	DMH	Rt.
TRAPELO RD	DMH	50+55.80	Rt.	30	TRAPELO RD	50+90.30	TYPE 1	Rt.
TRAPELO RD	TYPE 1	50+83.00	Rt.	23	TRAPELO RD	50+66.70	DMH	Rt.
TRAPELO RD	DMH	50+66.70	Rt.	15	TRAPELO RD	50+55.80	DMH	Rt.
TRAPELO RD	DMH	50+66.70	Rt.	21	TRAPELO RD	50+40.70	TYPE 1	Rt.
TRAPELO RD	TYPE 1	55+57.90	Lt.	43	TRAPELO RD	56+05.50	DMH	Lt.
TRAPELO RD	DMH	56+05.50	Lt.	20	TRAPELO RD	56+04.60	TYPE 1	Lt.
TRAPELO RD	DMH	56+04.60	Lt.	65	TRAPELO RD	55+51.90	DMH	Rt.
TRAPELO RD	DMH	55+51.90	Rt.	40	TRAPELO RD	55+17.10	TYPE 3	Rt.
TRAPELO RD	DMH	58+22.70	Rt.	3	TRAPELO RD	58+18.50	TYPE 3	Rt.
TRAPELO RD	DMH	60+88.80	Rt.	38	TRAPELO RD	60+46.40	TYPE 3	Rt.
TRAPELO RD	TYPE 3	63+21.40	Rt.	58	TRAPELO RD	63+83.14	DMH	Rt.
TRAPELO RD	TYPE 3	63+59.00	Rt.	7	TRAPELO RD	63+18.70	DMH	Rt.
TRAPELO RD	TYPE 1	63+16.90	Lt.	23	TRAPELO RD	63+43.05	DMH	Lt.
TRAPELO RD	DMH	63+43.05	Lt.	10	TRAPELO RD	63+54.70	DMH	Lt.
TRAPELO RD	DMH	63+54.70	Lt.	2	TRAPELO RD	63+55.80	TYPE 1	Lt.
TRAPELO RD	DMH 9-14	66+63.90	Rt.	3	TRAPELO RD	66+67.40	TYPE 1	Rt.
TRAPELO RD	DMH	67+49.30	Lt.	2	TRAPELO RD	67+49.90	TYPE 1	Lt.
TRAPELO RD	TYPE 1	68+78.90	Rt.	31	TRAPELO RD	68+42.30	DMH	Rt.
TRAPELO RD	DMH 9-14	71+26.90	Rt.	61	HARRIET AVE	00+89.80	DMH	Rt.
HARRIET AVE	DMH	00+89.80	Rt.	42	HARRIET AVE	01+25.10	TYPE 3	Rt.
HARRIET AVE	TYPE 1	00+89.90	Rt.	4	HARRIET AVE	00+89.80	DMH	Rt.
HARRIET AVE	DMH	00+89.80	Rt.	39	HARRIET AVE	00+89.10	TYPE CF	Lt.
TRAPELO RD	TYPE 1	71+90.20	Lt.	55	TRAPELO RD	71+46.90	DMH	Lt.
TRAPELO RD	DMH	73+83.70	Rt.	7	TRAPELO RD	73+88.70	TYPE 1	Rt.
TRAPELO RD	TYPE 1	73+37.70	Rt.	9	TRAPELO RD	73+49.50	DMH	Rt.
TRAPELO RD	TYPE 1	74+45.80	Lt.	5	TRAPELO RD	74+54.90	DMH	Lt.
TRAPELO RD	DMH	77+82.70	Lt.	2	TRAPELO RD	77+88.40	TYPE 1	Lt.
TRAPELO RD	DMH	80+51.50	Lt.	2	TRAPELO RD	80+57.50	TYPE 1	Lt.
TRAPELO RD	DMH	76+06.70	Rt.	2	TRAPELO RD	76+06.73	TYPE 1	Rt.
TRAPELO RD	DMH	78+29.10	Rt.	8	TRAPELO RD	78+45.60	TYPE 3	Rt.
TRAPELO RD	DMH	81+54.40	Rt.	6	TRAPELO RD	81+54.40	TYPE 3	Rt.
TRAPELO RD	TYPE 1	84+17.70	Rt.	11	TRAPELO RD	84+29.60	DMH	Rt.
TRAPELO RD	DMH	84+29.60	Rt.	11	TRAPELO RD	84+47.10	DMH	Rt.
COMMON ST N	TYPE 3	00+69.60	Rt.	20	TRAPELO RD	87+60.90	DMH	Lt.
TRAPELO RD	TYPE 1	87+51.60	Rt.	14	TRAPELO RD	87+55.60	DMH	Rt.
TRAPELO RD	DMH	88+24.80	Rt.	48	TRAPELO RD	88+71.40	TYPE 1	Rt.

241.12

12 INCH REINFORCED CONCRETE PIPE

LF

STREET	STRUCTURE	FROM STATION	SIDE	(LF) LENGTH	STREET	TO STATION	FROM STRUCTURE	SIDE
TRAPELO RD	DMH	90+40.60	Lt.	16	TRAPELO RD	90+48.20	TYPE 3	Lt.
TRAPELO RD	DMH	93+17.09	Lt.	31	TRAPELO RD	93+48.20	TYPE 1	Lt.
TRAPELO RD	TYPE 1	92+85.00	Lt.	23	TRAPELO RD	93+13.30	DMH	Lt.
TRAPELO RD	DMH	93+22.60	Rt.	30	TRAPELO RD	92+89.10	GI	Rt.
TRAPELO RD	GI	93+29.10	Rt.	3	TRAPELO RD	93+22.60	DMH	Rt.
TRAPELO RD	TYPE 3	99+70.80	Lt.	35	TRAPELO RD	100+12.22	DMH	Lt.
TRAPELO RD	TYPE 1	102+30.70	Rt.	18	TRAPELO RD	102+50.91	DMH	Rt.
TRAPELO RD	TYPE 1	104+29.30	Lt.	4	TRAPELO RD	104+30.80	DMH	Lt.
TRAPELO RD	TYPE 1	105+37.30	Rt.	3	TRAPELO RD	105+37.30	DMH	Rt.
BELMONT RD	TYPE 3	106+79.20	Rt.	6	BELMONT RD	106+86.40	DMH	Rt.
BELMONT RD	TYPE 3	107+45.60	Rt.	6	BELMONT RD	107+52.50	DMH	Rt.
BELMONT RD	TYPE 1	108+78.60	Rt.	4	BELMONT RD	107+85.60	DMH	Rt.
BELMONT RD	TYPE 1	109+87.70	Rt.	27	BELMONT RD	110+16.79	DMH	Rt.
BELMONT RD	TYPE 1	111+15.20	Rt.	11	BELMONT RD	111+21.40	DMH	Rt.
BELMONT RD	TYPE 1	112+24.70	Rt.	15	BELMONT RD	111+31.80	DMH	Rt.
BELMONT RD	TYPE 1	107+40.90	Lt.	2	BELMONT RD	107+43.70	DMH	Lt.
BELMONT RD	DMH	107+43.70	Lt.	280	BELMONT RD	110+27.00	DMH	Lt.
BELMONT RD	DMH	110+27.00	Lt.	2	BELMONT RD	110+25.00	TYPE 1	Lt.
BELMONT RD	DMH	110+27.00	Lt.	226	BELMONT RD	112+65.20	DMH	Lt.
BELMONT RD	TYPE 1	112+55.10	Lt.	5	BELMONT RD	112+65.20	DMH	Lt.
BELMONT RD	DMH	112+65.20	Lt.	63	BELMONT RD	113+25.05	DMH	Lt.
BELMONT RD	GI	114+85.90	Lt.	3	BELMONT RD	114+85.80	TYPE 1	Lt.
BELMONT RD	TYPE 1	114+85.80	Lt.	49	BELMONT RD	115+39.60	DMH	Lt.
BELMONT RD	DMH	115+39.60	Lt.	2	BELMONT RD	115+41.70	DMH	Lt.
BELMONT RD	TYPE 1	115+16.10	Lt.	32	BELMONT RD	115+39.60	DMH	Lt.
BELMONT RD	DMH	115+39.60	Lt.	14	BELMONT RD	115+46.00	TYPE 1	Lt.
BELMONT RD	TYPE 1	117+03.90	Lt.	37	BELMONT RD	117+28.20	DMH	Lt.
BELMONT RD	DMH	117+28.20	Lt.	24	BELMONT RD	117+44.90	DMH	Lt.
BELMONT RD	TYPE 1	117+37.50	Lt.	5	BELMONT RD	117+28.20	DMH	Lt.
BELMONT RD	TYPE 1	117+56.40	Rt.	41	BELMONT RD	118+01.70	DMH	Rt.
BELMONT RD	DMH	119+30.50	Lt.	36	BELMONT RD	118+90.80	TYPE 3	Lt.
BELMONT RD	TYPE 1	119+18.10	Lt.	33	BELMONT RD	119+30.50	DMH	Lt.
BELMONT RD	DMH	119+30.50	Lt.	31	BELMONT RD	119+43.40	TYPE 1	Lt.
BELMONT RD	TYPE 1	118+77.10	Rt.	20	BELMONT RD	119+01.90	DMH	Rt.
BELMONT RD	DMH	119+01.90	Rt.	10	BELMONT RD	119+07.40	DMH	Rt.
BELMONT RD	TYPE 1	118+93.80	Rt.	20	BELMONT RD	119+01.90	DMH	Rt.
BELMONT RD	DMH	119+01.90	Rt.	27	BELMONT RD	119+19.10	TYPE 1	Rt.
BELMONT RD	TYPE 1	119+75.50	Rt.	3	BELMONT RD	119+82.80	DMH	Rt.
SCHOOL ST	TYPE 1	00+85.50	Rt.	38	SCHOOL ST	00+55.10	DMH	Lt.
SCHOOL ST	DMH	00+55.10	Lt.	40	BELMONT RD	120+69.50	DMH	Rt.
SCHOOL ST	TYPE 1	00+65.80	Rt.	5	SCHOOL ST	00+55.10	DMH	Lt.
BELMONT RD	TYPE 1	121+49.80	Rt.	4	BELMONT RD	121+54.20	DMH 9-14	Rt.
NEWTON ST	TYPE 1	00+72.20	Lt.	2	NEWTON ST	00+68.20	DMH	Lt.
NEWTON ST	DMH	00+68.20	Lt.	28	BELMONT RD	123+61.30	DMH	Lt.
NEWTON ST	TYPE 1	00+59.70	Rt.	20	BELMONT RD	123+61.30	DMH	Lt.
BELMONT RD	TYPE 3	123+32.40	Lt.	24	BELMONT RD	123+61.30	DMH	Lt.
BELMONT RD	DMH	123+62.30	Lt.	11	BELMONT RD	123+62.30	DMH	Lt.
BELMONT RD	DMH	124+32.40	Rt.	20	BELMONT RD	124+36.00	TYPE 1	Rt.
WORCESTER ST	DMH	00+34.90	Lt.	17	BELMONT RD	125+44.20	TYPE 1	Lt.
WORCESTER ST	TYPE 1	00+66.70	Lt.	28	WORCESTER ST	00+34.90	DMH	Lt.
WORCESTER ST	DMH	00+31.90	Lt.	21	WORCESTER ST	00+56.20	TYPE 1	Lt.
WORCESTER ST	DMH	00+34.90	Lt.	12	BELMONT RD	125+65.80	DMH	Lt.
BELMONT RD	DMH	127+58.90	Lt.	12	BELMONT RD	127+54.30	DMH	Lt.
BELMONT RD	DMH	127+54.30	Lt.	9	BELMONT RD	127+38.50	TYPE 1	Lt.
BELMONT RD	TYPE 1	127+47.00	Lt.	26	BELMONT RD	127+54.30	DMH	Lt.
BELMONT RD	DMH	127+54.30	Lt.	25	BELMONT RD	127+72.60	TYPE 1	Lt.
BELMONT RD	DMH	127+54.30	Lt.	10	BELMONT RD	127+58.90	DMH	Lt.
BELMONT RD	DMH	128+70.20	Lt.	24	BELMONT RD	128+49.40	TYPE 3	Lt.
BELMONT RD	TYPE 1	130+68.20	Lt.	26	BELMONT RD	130+94.50	DMH	Lt.
BELMONT RD	MEET EXIST. PIPE	130+99.10	Lt.	45	BELMONT RD	130+94.50	DMH	Lt.
BELMONT RD	DMH	132+17.50	Lt.	9	BELMONT RD	137+17.50	TYPE 1	Lt.
BELMONT RD	DMH	134+84.40	Lt.	45	BELMONT RD	134+37.50	TYPE 1	Lt.
BELMONT RD	TYPE 3	134+98.40	Rt.	3	BELMONT RD	135+04.30	DMH	Rt.
BELMONT RD	DMH	138+32.30	Lt.	32	BELMONT RD	137+98.40	TYPE 1	Lt.
BELMONT RD	DMH	140+73.90	Lt.	28	BELMONT RD	140+49.60	TYPE 1	Lt.
BELMONT RD	DMH	140+73.90	Lt.	193	BELMONT RD	142+75.70	DMH	Lt.
BELMONT RD	DMH	142+75.70	Lt.	15	BELMONT RD	142+84.90	TYPE 1	Lt.
BELMONT RD	DMH	142+75.70	Lt.	50	BELMONT RD	143+30.50	DMH	Lt.
BELMONT RD	DMH	143+30.50	Lt.	114	BELMONT RD	144+51.40	DMH	Lt.
BELMONT RD	DMH	144+51.40	Lt.	115	BELMONT RD	145+72.30	TYPE 1	Lt.
BELMONT RD	TYPE 1	125+80.40	Rt.	1	BELMONT RD	125+76.20	DMH	Rt.
BELMONT RD	TYPE 1	128+19.40	Rt.	28	BELMONT RD	128+51.10	DMH	Rt.
BELMONT RD	DMH	128+41.02	Rt.	11	BELMONT RD	128+56.70	DMH	Rt.
BELMONT RD	DMH	128+56.70	Rt.	7	BELMONT RD	128+68.60	TYPE 1	Rt.
TEMPLETON PRK	TYPE 1	01+37.50	Lt.	45	TEMPLETON PRK	00+91.50	DMH	Lt.
BELMONT RD	TYPE 3	139+93.80	Rt.	10	BELMONT RD	140+05.10	DMH	Rt.

241.12

12 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
BELMONT RD	TYPE 3	140+85.40	Rt.	5	BELMONT RD	140+95.10	DMH	Rt.
BELMONT RD	DMH	141+73.10	Rt.	24	BELMONT RD	141+75.54	DMH	Rt.
BELMONT RD	TYPE 1	145+90.20	Rt.	4	BELMONT RD	145+97.20	DMH	Rt.

TOTAL 4310 LF

SAY	<u>4,310</u>	LF
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241.15

15 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM</u> <u>STATION</u>	<u>SIDE</u>	<u>(LF)</u> <u>LENGTH</u>	<u>STREET</u>	<u>TO</u> <u>STATION</u>	<u>FROM</u> <u>STRUCTURE</u>	<u>SIDE</u>
TRAPELO RD	MEET EXIST.	28+85.50	Rt.	38	TRAPELO RD	29+19.20	DMH	Rt.
TRAPELO RD	DMH	29+19.20	Rt.	112	TRAPELO RD	30+37.80	DMH	Rt.
TRAPELO RD	DMH	55+51.90	Rt.	29	TRAPELO RD	55+95.50	DMH	Rt.
TRAPELO RD	DMH	55+95.50	Rt.	217	TRAPELO RD	58+22.70	DMH	Rt.
TRAPELO RD	DMH	58+22.70	Rt.	34	TRAPELO RD	58+59.70	DMH	Rt.
TRAPELO RD	EXIST. DRAIN	74+08.11	Lt.	43	TRAPELO RD	74+54.90	DMH	Lt.
TRAPELO RD	DMH	74+54.90	Lt.	65	TRAPELO RD	75+24.39	EXIST. DRAIN	Lt.
TRAPELO RD	DMH	84+27.79	Lt.	309	TRAPELO RD	87+55.60	DMH	Lt.
TRAPELO RD	DMH	87+80.05	Lt.	40	TRAPELO RD	88+02.80	DMH	Lt.
TRAPELO RD	DMH	88+24.80	Rt.	72	TRAPELO RD	87+55.60	DMH	Lt.
BELMONT ST	DMH	117+44.90	Lt.	184	BELMONT ST	119+34.10	DMH	Lt.
BELMONT ST	DMH	119+34.10	Lt.	2	BELMONT ST	119+30.50	DMH	Lt.

TOTAL 1145 LF

SAY	1,145	LF
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241.18

18 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM</u> <u>STATION</u>	<u>SIDE</u>	<u>(LF)</u> <u>LENGTH</u>	<u>STREET</u>	<u>TO</u> <u>STATION</u>	<u>FROM</u> <u>STRUCTURE</u>	<u>SIDE</u>
MILL ST	DMH	01+14.30	Rt.	10.0	MILL ST	01+16.20	TYPE BF	Rt.
MILL ST	DMH	01+14.30	Rt.	31.0	MILL ST	01+09.50	DMH	Rt.
TRAPELO RD	DMH	30+37.80	Rt.	105.0	TRAPELO RD	31+47.40	DMH	Rt.
TRAPELO RD	DMH	31+47.40	Rt.	82.0	TRAPELO RD	32+33.70	DMH	Rt.
TRAPELO RD	DMH	32+33.70	Rt.	75.0	TRAPELO RD	33+12.80	DMH	Rt.
TRAPELO RD	DMH	33+12.80	Rt.	32.0	TRAPELO RD	33+48.60	DMH	Rt.
TRAPELO RD	DMH	33+48.60	Rt.	116.0	LEXINGTON ST	00+82.80	DMH	Lt.
LEXINGTON ST	DMH	00+82.80	Lt.	90.0	LEXINGTON ST	01+54.16	DMH	Lt.
CHURCH ST	DMH	00+99.00	Rt.	69.0	TRAPELO RD	38+09.28	DMH	Rt.
TRAPELO RD	DMH	38+09.28	Rt.	133.0	TRAPELO RD	39+45.80	DMH	Rt.
TRAPELO RD	DMH	48+41.70	Lt.	19.0	TRAPELO RD	48+49.60	DMH	Lt.
BELMONT ST	DMH	119+34.10	Lt.	155.0	BELMONT ST	120+94.55	DMH	Lt.
TOTAL				917	LF			
SAY				920	LF			

241.21

21 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
TRAPELO RD	DMH	39+45.80	Lt.	133.0	TRAPELO RD	40+83.60	DMH	Lt.
TRAPELO RD	DMH	41+12.31	Lt.	29.0	TRAPELO RD	40+83.60	DMH	Lt.
TRAPELO RD	DMH	59+77.70	Rt.	111.0	TRAPELO RD	58+59.70	DMH	Rt.
TRAPELO RD	DMH	59+77.70	Rt.	105.0	TRAPELO RD	60+88.80	DMH	Rt.
BELMONT ST	DMH	123+62.30	Lt.	199.0	BELMONT ST	125+65.80	DMH	Lt.
BELMONT ST	DMH	125+65.80	Lt.	184.0	BELMONT ST	127+58.90	DMH	Lt.

TOTAL 761 LF

SAY	761	LF
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241.24

24 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
TRAPELO RD	DMH	60+88.80	Rt.	275.0	TRAPELO RD	63+68.70	DMH	Rt.
TRAPELO RD	DMH	63+83.14	Rt.	15.0	TRAPELO RD	63+68.70	DMH	Rt.
TRAPELO RD	DMH	87+80.05	Lt.	257.0	TRAPELO RD	90+40.60	DMH	Lt.
TRAPELO RD	DMH	90+40.60	Lt.	275.0	TRAPELO RD	93+17.09	DMH	Lt.
BELMONT ST	DMH	120+82.80	Rt.	4.0	BELMONT ST	120+89.13	MEET EXIST	Rt.
BELMONT ST	DMH	127+58.90	Lt.	113.0	BELMONT ST	128+70.20	DMH	Lt.
BELMONT ST	DMH	128+70.20	Lt.	221.0	BELMONT ST	130+94.50	DMH	Lt.
BELMONT ST	DMH	130+94.60	Lt.	118.0	BELMONT ST	132+17.50	DMH	Lt.
BELMONT ST	DMH	132+17.50	Lt.	262.0	BELMONT ST	134+84.40	DMH	Lt.
BELMONT ST	DMH	134+84.40	Lt.	322.0	BELMONT ST	138+10.70	DMH	Lt.
BELMONT ST	DMH	138+10.70	Lt.	263.0	BELMONT ST	140+73.90	DMH	Lt.
BELMONT ST	DMH	140+73.90	Lt.	238.0	OXFORD ST	02+56.00	DMH	Lt.
OXFORD RO	DMH	02+56.00	Lt.	243.0	OXFORD ST	05+03.20	DMH	Lt.

TOTAL 2606 LF

SAY	2,610	LF
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241.27

27 INCH REINFORCED CONCRETE PIPE

LF

<u>STREET</u>	<u>STRUCTURE</u>	<u>FROM STATION</u>	<u>SIDE</u>	<u>(LF) LENGTH</u>	<u>STREET</u>	<u>TO STATION</u>	<u>FROM STRUCTURE</u>	<u>SIDE</u>
TRAPELO RD	DMH	68+25.17	Rt.	221.0	TRAPELO RD	70+46.15	DMH	Rt.
TRAPELO RD	DMH	70+46.15	Rt.	87.0	TRAPELO RD	71+34.80	DMH	Rt.
TRAPELO RD	DMH	71+34.80	Rt.	28.0	TRAPELO RD	71+65.10	DMH	Rt.
TRAPELO RD	DMH	71+65.10	Rt.	167.0	TRAPELO RD	73+31.80	DMH	Rt.
TRAPELO RD	DMH	73+31.80	Rt.	48.0	TRAPELO RD	73+83.70	DMH	Rt.
TRAPELO RD	DMH	73+83.70	Rt.	168.0	TRAPELO RD	75+52.80	DMH	Rt.
TRAPELO RD	DMH	75+52.80	Rt.	51.0	TRAPELO RD	76+06.70	DMH	Rt.
TRAPELO RD	DMH	76+06.70	Rt.	160.0	TRAPELO RD	77+69.50	DMH	Rt.
TRAPELO RD	DMH	77+69.50	Rt.	56.0	TRAPELO RD	78+29.10	DMH	Rt.
TRAPELO RD	DMH	78+29.10	Rt.	322.0	TRAPELO RD	81+54.40	DMH	Rt.
TRAPELO RD	DMH	81+54.40	Rt.	270.0	TRAPELO RD	84+27.80	DMH	Rt.
TRAPELO RD	DMH	84+27.80	Rt.	25.0	TRAPELO RD	84+28.70	DMH	Lt.
TRAPELO RD	DMH	84+28.70	Lt.	71.0	TRAPELO RD	85+03.20	DMH	Lt.
TRAPELO RD	DMH	85+03.20	Lt.	140.0	TRAPELO RD	86+47.30	DMH	Lt.
TRAPELO RD	DMH	86+47.30	Lt.	81.0	TRAPELO RD	87+33.50	DMH	Lt.
TRAPELO RD	DMH	87+33.50	Lt.	43.0	TRAPELO RD	87+80.05	DMH	Lt.

TOTAL 1938 LF

SAY	1,940	LF
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242.12

**12 INCH REINFORCED CONCRETE
PIPE FLARED END**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO ROAD	19+31.00	Lt.	1
TRAPELO ROAD	19+43.00	Lt.	1
TOTAL			<u>2</u> EA
SAY			<u>2</u> EA

269.08

**8 INCH SLOT-PERFORATED CORRUGATED
PLASTIC PIPE (SUBDRAIN)**

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO ROAD	21+38.80	23+54.50	212.0
	TOTAL	212	LF
	SAY	215	LF

302.06

6 INCH DUCTILE IRON WATER PIPE
(RUBBER GASKET)

FT

STREET	STATION		SIDE	(LF)
	START	END		LENGTH
TRAPELO RD.	47+86.67	47+98.13	Lt.	14.0
TRAPELO RD.	53+47.40	53+56.33	Rt.	22
BELMONT ST	108+72.78	108+99.22	Rt.	58.0
BELMONT ST	111+24.27	111+31.18	Rt.	12.0
BELMONT ST	129+01.50	129+10.50	Lt.	14.0
BELMONT ST	139+53.14	139+56.86	Rt.	11.0

SUB-TOTAL 131.0 LF

SAY	140	LF
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302.08

8 INCH DUCTILE IRON WATER PIPE
(RUBBER GASKET)

FT

STREET	STATION		SIDE	(LF)
	START	END		LENGTH
BELMONT ST	125+88.15	125+98.21	Lt.	12
TRAPELO RD	33+52.46	33+53.43	Rt.	16
TRAPELO RD	37+87.90	38+00.52	Rt.	16

SUBTOTAL	44.0	EA
CONTINGENCY	100	EA
TOTAL	144.0	LF

SAY	150	LF
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302.10

10 INCH DUCTILE IRON WATER PIPE
(RUBBER GASKET)

FT

STREET	STATION		SIDE	(LF)
	START	END		LENGTH
CHURCH ST.	01+87.35	00+97.65	Rt.	18
TRAPELO RD.	38+14.23	38+14.41'	Lt.	16.0
TRAPELO RD.	77+79.37	77+96.98'	Lt.	21
TRAPELO RD.	80+48.81	80+66.67	Lt.	22
BELMONT RD.	121+39.53	121+70.37	Rt.	30
BELMONT RD.	120+60.67	120+75.35	Rt.	20

SUBTOTAL	18	EA
CONTINGENCY	100	EA
TOTAL	118.0	LF

SAY	120	LF
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302.12

12 INCH DUCTILE IRON WATER PIPE
(RUBBER GASKET)

FT

STREET	STATION		SIDE	(LF)
	START	END		LENGTH
TRAPELO RD	87+73.19	87+61.20	Lt.	16.00

SUBTOTAL 16 EA

TOTAL 16.0 LF

SAY	20	LF
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309.

DUCTILE IRON FITTINGS FOR WATER PIPE

LB

STREET	STA	STA	SIDE	TYPE	QTY	PIPE SIZE	WEIGHT	TOTAL WEIGHT
TRAPELO RD.	47+86.67	47+98.13	Lt.	45 BEND	2	6	75	150
TRAPELO RD.	53+47.40	53+56.33	Rt.	45 BEND	2	6	75	150
BELMONT ST	108+72.78	108+99.22	Rt.	45 BEND	7	6	75	525
BELMONT ST	111+24.27	111+31.18	Rt.	45 BEND	2	6	75	150
BELMONT ST	129+01.50	129+10.50	Lt.	45 BEND	2	6	75	150
BELMONT ST	139+53.14	139+56.86	Rt.	22.5 BEND	1	6	75	75
BELMONT ST	125+88.15	125+98.21	Lt.	60 BEND	1	8	110	110
TRAPELO RD	33+52.46	33+53.43	Rt.	45 BEND	4	8	110	440
TRAPELO RD	37+87.90	38+00.52	Rt.	45 BEND	4	8	110	440
CHURCH ST.	01+87.35	00+97.65	Rt.	45 BEND	4	10	155	620
TRAPELO RD.	38+14.23	38+14.41'	Lt.	45 BEND	4	10	155	620
TRAPELO RD.	77+79.37	77+96.98'	Lt.	45 BEND	4	10	155	620
TRAPELO RD.	80+48.81	80+66.67	Lt.	45 BEND	4	10	155	620
BELMONT RD.	121+39.53	121+70.37	Rt.	45 BEND	4	10	155	620
BELMONT RD.	120+60.67	120+75.35	Rt.	45 BEND	4	10	155	620
TRAPELO RD	87+61.20	87+73.19	Lt.	45	4	12	210	840

SUBTOTAL 6750.00 LB

ASSUME 20% CONTINGENCY 1350

TOTAL 8100.00 LB

SAY	8,100	LB
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347.075

3/4 INCH COPPER TUBING TYPE K

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
<u>CONTINGENCY</u>	<u>START</u>	<u>END</u>	<u>LENGTH</u>
			200

TOTAL 200.0 LF

SAY	200	LF
-----	-----	----

347.1

1 INCH COPPER TUBING TYPE K

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
<u>CONTINGENCY</u>	<u>START</u>	<u>END</u>	<u>LENGTH</u>
			20
	<u>TOTAL</u>		<u>20.0</u> LF
	<u>SAY</u>		<u>20</u> LF

347.15

1.5 INCH COPPER TUBING TYPE K

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	33+55.00	33+65.00	8

TOTAL 8.0 LF

SAY	10	LF
-----	----	----

350.06

6 INCH GATE AND GATE BOX

EA

STREET	STA.	SIDE	QTY.
BELMONT ST	108+94.59	Rt.	1
BELMONT ST	111+28.12	Rt.	1
BELMONT ST	139+55.43	Rt.	1
CONTINGENCY			2

TOTAL 5 EA

SAY	5	EA
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354.12

**12 INCH AND UNDER GATE BOX
REMOVED & RESET**

EA

STREET
CONTINGENCY

STA.

SIDE

QTY.
2

TOTAL 2 EA

SAY	50	EA
-----	----	----

357.06

6 INCH GATE BOX

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD	00+00.00		0	
		SUBTOTAL	0	EA
		CONTINGENCY	2	EA
		TOTAL	2	EA
		SAY	2	EA

357.08

8 INCH GATE BOX

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD	00+00.00		0	
		SUBTOTAL	0	EA
		CONTINGENCY	2	EA
		TOTAL	2	EA
		SAY	2	EA

357.10

10 INCH GATE BOX

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD	00+00.00		0	
		SUBTOTAL	0	EA
		CONTINGENCY	2	EA
		TOTAL	2	EA
		SAY	2	EA

357.12

12 INCH GATE BOX

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD	00+00.00		0	
		SUBTOTAL	0	EA
		CONTINGENCY	2	EA
		TOTAL	2	EA
		SAY	2	EA

358.

GATE BOX ADJUSTED

EA

STREET	STATION		ROAD
	START	END	
TRAPELO RD	16+66.08	22+00.00	2
MILL ST	00+00.00	4+00.00	4
TRAPELO RD	22+00.00	27+50.00	3
TRAPELO RD	27+50.00	33+50.00	10
PLEASANT ST	00+00.00	01+50.00	4
LEXINGTON ST	00+00.00	4+60.00	
TRAPELO RD	33+50.00	39+00.00	10
CHURCH ST	00+00.00	04+00.00	7
TRAPELO RD	39+00.00	44+00.00	9
TRAPELO RD	44+00.00	50+00.00	13
TRAPELO RD	50+00.00	55+50.00	6
TRAPELO RD	55+50.00	61+00.0	11
BEECH ST (S)	00+00.00	01+50.00	2
BEECH ST (N)	00+00.00	01+00.00	3
TRAPELO RD	61+00.00	67+50.00	11
TRAPELO RD	67+50.00	73+00.00	4
SLADE ST			2
BARTLETT AVE			3
HARRIET AVE	00+00.00	01+75.00	2
TRAPELO RD	73+00.00	79+00.00	14
TRAPELO RD	79+00.00	85+00.00	8
TRAPELO RD	85+00.00	91+00.00	9
COMMON ST (N)	0+00.00	05+60.00	13
COMMON ST (S)	0+00.00	04+00.00	4
CUSHING AVE			2
TRAPELO RD	91+00.00	96+00.00	10
TRAPELO RD	96+00.00	102+00.00	10
BELMONT ST	102+00.00	108+00.00	10
BELMONT ST	108+00.00	113+00.00	4
BELMONT ST	113+00.00	118+00.00	9
BELMONT ST	118+00.00	123+00.00	14
BELMONT ST	123+00.00	129+00.00	21
BELMONT ST	129+00.00	134+00.00	8
BELMONT ST	134+00.00	140+00.00	13
GROVE ST			0
TEMPLETON PKWY	00+00.00	02+50.00	0
ARLINGTON ST	00+00.00	03+30.00	1
BELMONT ST	140+00.00	145+00.00	9
BELMONT ST	145+00.00	147+14.55	4

TOTAL 269

ADJUST DOWN BEFORE MILLING 269
 ADJUST UP BEFORE BINDER SURFACE 269
 ADJUST BEFORE FINISH COURSE 269

0

TOTAL 807

SAY 810

376.2

HYDRANT - REMOVED & RESET

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	47+99.09	Lt.	1
TRAPELO RD.	53+47.40	Lt.	1
TRAPELO RD.	68+26.04	Rt.	1
BELMONT ST	108+98.87	Rt.	1
BELMONT ST	111+32.13	Rt.	1
BELMONT ST	125+99.14	Lt.	1
BELMONT ST	129+00.57	Lt.	1
BELMONT ST	139+57.81	Rt.	1

TOTAL 8 EA

SAY	8	EA
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376.5

HYDRANT ADJUSTED

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD	00+00.00	Lt.	2	CONTINGENCY
TOTAL			<u>2</u>	EA
SAY		2	EA	

381

SERVICE BOX

EA

STREET	STA.	SIDE	QTY.
TRAPELO RD	98+63.35	Rt.	1
BELMONT ST	120+48.79	Lt	1
BELMONT ST	122+80.67'	Rt.	1
BELMONT ST	126+24.33	Lt	1
BELMONT ST	137+12.82	Lt	1
BELMONT ST	137+63.97	Lt	1
BELMONT ST	141+73.59'	Lt	1

TOTAL 7 EA

SAY	7	EA
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381.1

SERVICE BOX REMOVE AND RESET

EA

STREET STA. SIDE QTY.

SUBTOTAL 0 EA

FOR ESTIMATE PURPOSES 2 EA

TOTAL 2 EA

SAY	2	EA
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381.3

SERVICE BOX ADJUSTED

EA

STREET	STATION		QTY.
	START	END	
TRAPELO RD	16+66.08	22+00.00	0
MILL ST	00+00.00	4+00.00	0
TRAPELO RD	22+00.00	27+50.00	6
TRAPELO RD	27+50.00	33+50.00	1
PLEASANT ST	00+00.00	01+50.00	0
LEXINGTON ST	00+00.00	4+60.00	2
TRAPELO RD	33+50.00	39+00.00	6
CHURCH ST	00+00.00	04+00.00	6
TRAPELO RD	39+00.00	44+00.00	3
TRAPELO RD	44+00.00	50+00.00	13
TRAPELO RD	50+00.00	55+50.00	12
TRAPELO RD	55+50.00	61+00.0	10
BEECH ST (S)	00+00.00	01+50.00	2
BEECH ST (N)	00+00.00	01+00.00	1
TRAPELO RD	61+00.00	67+50.00	2
TRAPELO RD	67+50.00	73+00.00	5
SLADE ST			0
BARTLETT AVE			0
HARRIET AVE	00+00.00	01+75.00	2
TRAPELO RD	73+00.00	79+00.00	6
TRAPELO RD	79+00.00	85+00.00	6
TRAPELO RD	85+00.00	91+00.00	6
COMMON ST (N)	0+00.00	05+60.00	5
COMMON ST (S)	0+00.00	04+00.00	3
CUSHING AVE			1
TRAPELO RD	91+00.00	96+00.00	6
TRAPELO RD	96+00.00	102+00.00	4
BELMONT ST	102+00.00	108+00.00	2
BELMONT ST	108+00.00	113+00.00	7
BELMONT ST	113+00.00	118+00.00	3
BELMONT ST	118+00.00	123+00.00	7
BELMONT ST	123+00.00	129+00.00	4
BELMONT ST	129+00.00	134+00.00	6
BELMONT ST	134+00.00	140+00.00	7
GROVE ST			0
TEMPLETON PKWY	00+00.00	02+50.00	1
ARLINGTON ST	00+00.00	03+30.00	0
BELMONT ST	140+00.00	145+00.00	10
BELMONT ST	145+00.00	147+14.55	4

SUBTOTAL 159
Contingency 30

TOTAL 189

SAY	190
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381.3

METER CHAMBER REMOVED AND RESET

EA

STREET	STA.	SIDE	QTY.
TRAPELO RD.	34+40.00	Rt.	1
TRAPELO RD.	35+60.00	Rt.	1

TOTAL 2 EA

SAY	2	EA
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384.

CURB STOP

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD	98+63.35	Rt.	1
BELMONT ST	120+48.79	Lt	1
BELMONT ST	122+80.67'	Rt.	1
BELMONT ST	126+24.33	Lt	1
BELMONT ST	137+12.82	Lt	1
BELMONT ST	137+63.97	Lt	1
BELMONT ST	141+73.59'	Lt	1

SUBTOTAL 7 EA

TOTAL 7 EA

SAY	<u>7</u>	EA
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390.1

SPRINKLER SYSTEM PIPE

FT

STATION			
<u>STREET</u>	<u>START</u>	<u>END</u>	<u>QTY.</u>
TRAPELO ROAD			
SUBTOTAL			0
CONTINGENCY			100
TOTAL			100
SAY			100

402.

**DENSE GRADED CRUSHED
STONE FOR SUB-BASE**

CY

A. FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK	70,319.0	SF
DEPTH	0.333333333	FT
SUBTOTAL	<u>23439.7</u>	CF
TOTAL	<u>23439.7</u>	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL	<u>868</u>	CY
SAY	<u>870</u>	CY

Area calculations located in back of book on pavement area summary page

415.

PAVEMENT MICROMILLING

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

<u>Depth</u>	(SF) <u>AREA</u>
2.25in - 3.5 in	1684.0
2.25 in	736945.0
1.75in - 2.25in	1470.0
1.75 in	53,425
0.5in -1.75 in	33,314
1.0 in	56,197
0.5 in	86,866
0.0in - 1.0in	74,720

SUBTOTAL 1,044,621 SF

CONVERSION FACTOR 9.00 SF/SY

TOTAL 116,069 SY

SAY	116,100	SY
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Area calculations located in back of book on pavement area summary page

431. HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE SY

A. FULL DEPTH CONSTRUCTION LESS THAN 4 FEET:

ROADWAY AREA	1,725	SF
TOTAL AREA	1,725	SF
CONVERSION FACTOR	9.00	SF/SY
TOTAL	192	SY
SAY	195	SY

Volume calculations located in back of book on pavement area summary page

440.

CALCIUM CHLORIDE
FOR ROADWAY DUST CONTROL

LB

ASSUME TWO APPLICATIONS UPON ALL FULL DEPTH PAVEMENT AND SIDEWALK RECONSTRUCTION AREAS

APPLICATION RATE = 0.111 LB/SF

A. FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK 70,319 SF

B. FROM CEMENT CONCRETE AREAS:

AREA OF WORK 30,522 SF

SUBTOTAL 100,841 SF

x2 APPLICATIONS 2
TOTAL AREA 201,682 SF

MULTIPLY BY CONVERSION FACTOR 0.11 LB/SF

TOTAL 22,387 LB

SAY	22,400	LB
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Area calculations located in back of book on pavement and sidewalk area summary pages

443.

WATER FOR ROADWAY DUST CONTROL

MGL

ASSUME TWO APPLICATIONS UPON ALL FULL DEPTH PAVEMENT AND SIDEWALK RECONSTRUCTION AREAS

APPLICATION RATE = .11GL/SF

A. FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK 70,319 SF

B. FROM CEMENT CONCRETE AREAS:

AREA OF WORK 30,522 SF

SUBTOTAL 100,841 SF

x2 APPLICATIONS 2
TOTAL AREA 201,682 SF

MULTIPLY BY CONVERSION FACTOR 0.11 GL/SF

TOTAL 22 MGL

SAY	23	MGL
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450.90

CONTRACTOR QUALITY CONTROL

TON

A. FROM ITEM 455.23 SUPERPAVE SURFACE COURSE	9,800	TON
B. FROM ITEM 455.31 SUPERPAVE INTERMEDIATE COURSE	9,665	TON
C. FROM ITEM 455.42 SUPERPAVE BASE COURSE	2,166	TON
D. FROM ITEM 455.52 SUPERPAVE LEVELING COURSE	19	TON
SUBTOTAL (HIGHWAY QUANTITY)	<u>21,649</u>	TON
TOTAL	<u>21,649</u>	TON

SAY	21,650	TON
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451.

HMA FOR PATCHING

TON

A FOR PERMANENT TRENCH REPAIR OVER DRAINAGE AND WATER PIPES

	(LF) LENGTH	(LF) WIDTH	(SF) AREA	
10 INCH DUCTILE IRON PIPE	332	5.0	1660.0	
12 INCH DUCTILE IRON PIPE	27	5.0	135.0	
12 INCH REINFORCED CONCRETE PIPE	4310	5.0	21550.0	
15 INCH REINFORCED CONCRETE PIPE	1145	5.0	5725.0	
18 INCH REINFORCED CONCRETE PIPE	917	5.0	4585.0	
21 INCH REINFORCED CONCRETE PIPE	761	5.0	3805.0	
24 INCH REINFORCED CONCRETE PIPE	2606	5.0	13030.0	
27 INCH REINFORCED CONCRETE PIPE	1938	5.3	10174.5	
6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	131	5.0	655.0	
8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	144	5.0	720.0	
10 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	118	5.0	590.0	
12 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	16	5.0	80.0	
			62709.5	SF
	7.25" DEPTH OF PATCH		0.60	LF
	VOLUME		37887	CF

B FOR PERMANENT PAVEMENT OVER TRAFFIC CONDUIT

LENGTH OF SINGLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	1489	FT
AVERAGE WIDTH	3.50	FT
7.25" DEPTH OF PATCH	0.60	FT
VOLUME	3149	CF
LENGTH OF DOUBLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	384	FT
AVERAGE WIDTH	4.00	FT
7.25" DEPTH OF PATCH	0.60	FT
VOLUME	929	CF
LENGTH OF TRIPLE 3" TRAFFIC CONTROL CONDUIT IN ROADWAY	40	FT
AVERAGE WIDTH	4.50	FT
7.25" DEPTH OF PATCH	0.60	FT
VOLUME	109	CF
VOLUME	4186	CF

E. FOR PERMANENT PATCHING OF TEST PITS

NUMBER OF PITS	150	EA
AREA OF EACH PIT	36.00	SF
7.25" DEPTH OF PATCH	0.60	FT
VOLUME	3263	CF

D FOR REPAIR OR ROADWAY AFTER MILLING AND BEFORE BINDER COURSE

LENGTH OF PROJECT	12990	FT
AVERAGE WIDTH OF ROAD	50	FT
TOTAL AREA OF ROADWAY	649500	SF
10% OF ROAD NEEDS PATCHING	64950	SF
7.25" DEPTH OF PATCH	0.60	FT
VOLUME	39,241	CF
SUB-TOTAL	84,577	
CONVERSION FACTOR	0.075	TON/CF
TOTAL	6,343	TON
10% CONTINGENCY	634	TON
TOTAL	6,978	TON

SAY	7,000	TON
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452.

ASPHALT EMULSION FOR TACK COAT

GAL

FOR APPLICATION AS NECESSARY OVER AREAS OF RESURFACING
 ASSUME TWO APPLICATIONS OVER ENTIRE ROADWAY AREA AT 0.00564 GAL/SF
 (BETWEEN BASE COURSE AND INTERMEDIATE COURSE AND
 BETWEEN INTERMEDIATE COURSE AND SURFACE COURSE)

A. ROADWAY AREA

A. FROM "FULL DEPTH AREAS" WORKSHEET:

AREA	70319.0	SF	
x 2 APPLICATIONS	2		
APPLICATION RATE	0.00556	GAL/SF	
SUBTOTAL	781.3	GAL	

B. TRAPELO AND BELMONT STREET PAVEMENT OVERLAY AREAS

ASSUME ONE APPLICATIONS OVER ENTIRE ROADWAY AREA AT 0.00778 GAL/SF FOR BINDER COURSE

AREA	635703.0	SF	
APPLICATION RATE	0.00778	GAL/SF	
SUBTOTAL	4944.4	GAL	

ASSUME ONE APPLICATIONS OVER ENTIRE ROADWAY AREA AT 0.00556 GAL/SF FOR TOP COURSE

AREA	635703.0	SF	
APPLICATION RATE	0.00556	GAL/SF	
SUBTOTAL	3531.7	GAL	

C. SIDE STREET PAVEMENT OVERLAY AREAS

ASSUME ONE APPLICATIONS OVER ENTIRE ROADWAY AREA AT 0.00778 GAL/SF

AREA	201686.0	SF	
APPLICATION RATE	0.00778	GAL/SF	
SUBTOTAL	1568.7	GAL	

TOTAL 10826.0 GAL

SAY	10,830	GAL
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Area calculations located in back of book on pavement area summary page

453

HMA JOINT SEALANT

FT

FOR COLD JOINTS IN THE TOP COURSE:

LENGTH OF CURB ALONG ROAD	31167.1	FT
AT ASPHALT PAVEMENT SAW CUTS	88,348	LF
AT CEMENT CONCRETE SAW CUTS	2,150	LF
CATCHBASIN FRAMES	204 EA 3 SIDES 2 FT PER SIDE	1224 LF
MANHOLE FRAMES	274 EA 6.28 PERIMETER OF CIRCLE	1720.72 LF
SUBTOTAL	2944.72	LF
INBETWEEN PAVEMENT COURSES ALONG ROADWAY		
A. TRAPELO AND BELMONT STREET	13040	LF
Assuming roadway width is 60ft± and pavement courses are 10ft± wide	5	COLD JOINTS
SUBTOTAL	65,200.0	LF
B. MILL STREET	370	LF
Assuming roadway width is 40ft± and pavement courses are 10ft± wide	3	COLD JOINTS
SUBTOTAL	1,110.0	LF
C. COMMON STREET N	520	LF
Assuming roadway width is 60ft± and pavement courses are 10ft± wide	5	COLD JOINTS
SUBTOTAL	2,600.0	LF
D. COMMON STREET S	380	LF
Assuming roadway width is 40ft± and pavement courses are 10ft± wide	3	COLD JOINTS
SUBTOTAL	1,140.0	LF
E. CHURCH & LEXINGTON STREET	980	LF
Assuming roadway width is 40ft± and pavement courses are 10ft± wide	3	COLD JOINTS
SUBTOTAL	2,940.0	LF
F. SCHOOL STREET SOUTH	470	LF
Assuming roadway width is 20ft± and pavement courses are 10ft± wide	1	COLD JOINTS
SUBTOTAL	470.0	LF
G. GROVE STREET	185	LF
Assuming roadway width is 30ft± and pavement courses are 10ft± wide	2	COLD JOINTS
SUBTOTAL	370.0	LF
H. TEMPLETON PARKWAY	200	LF
Assuming roadway width is 20ft± and pavement courses are 10ft± wide	1	COLD JOINTS
SUBTOTAL	200.0	LF
I. ARLINGTON STREET	300	LF

Assuming roadway width is 30ft± and pavement courses are 10ft± wide	2	COLD JOINTS
SUBTOTAL	600.0	LF
J. OTHER SIDE STREETS	2240	LF
Assuming roadway width is 30ft± and pavement courses are 10ft± wide Assuming average pavement overlay of side streets is 40ft±	2	COLD JOINTS
SUBTOTAL	4,480.0	LF
TOTAL	203,720.0	LF
SAY	203,750	LF

454.5

LATEX MODIFICATION OF HMA

LB

A. HOT MIXED ASPHALT

TOTAL 9,850 TON

B. HOT MIXED ASPHALT DENSE BINDER

TOTAL 9,700 TON

TOTAL 19,550 TON

SAY	19,550	LB
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Area calculations located in back of book on pavement area summary page

455.23

SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)

TON

FOR THE TOP COURSE

A. FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK 7,813 SY

B. FULL DEPTH PAVEMENT LESS THAN 4 FEET:

AREA OF WORK 36 SY

C. FROM VARIABLE DEPTH PAVEMENT AREAS

AREA OF WORK 5,168 SY

D. TRAPELO & BELMONT STREET PAVEMENT OVERLAY

AREA OF WORK 70,634 SY

E. SIDE STREET PAVEMENT OVERLAY

AREA OF WORK 22,410 SY

SUBTOTAL **106,061** **SY**

DEPTH **1.50** **IN**

VOLUME **159,092** **SY * IN**

CONVERSION FACTOR **0.056** **TON/IN/SY**

SUB-TOTAL **8,909** **TON**

10% CONTINGENCY **891**

TOTAL **9,800**

SAY	9,850	TON
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Area calculations located in back of book on pavement area summary page

455.31

SUPERPAVE INTERMEDIATE COURSE 12.5 (SIC-12.5)

TON

FOR THE INTERMEDIATE COURSE

A. FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK 7,813 SY

B. TRAPELO & BELMONT STREET PAVEMENT OVERLAY

AREA OF WORK 70,634 SY

SUBTOTAL 78,447 SY

DEPTH 2.00 IN

VOLUME 156,894 SY * IN

CONVERSION FACTOR 0.056 TON/IN/SY

SUB-TOTAL 8,786 TON

10% CONTINGENCY 879 TON

TOTAL 9,665 TON

SAY	9,700	TON
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Area calculations located in back of book on pavement area summary page

455.42

SUPERPAVE BASE COURSE 37.5 (SBC-37.5)

TON

FROM FULL DEPTH PAVEMENT AREAS:

AREA OF WORK	7,813	SY
SUBTOTAL	7,813	SY
DEPTH	4.50	IN
VOLUME	35,160	SY*IN
CONVERSION FACTOR	0.056	TON/IN/SY
SUB-TOTAL	1,969	TON
10% CONTINGENCY	197	TON
TOTAL	2,166	TON
SAY	2,200	TON

Area calculations located in back of book on pavement area summary page

455.52

SUPERPAVE LEVELING COURSE 9.5 (SLC-9.5)

TON

Street	Station		Distance (LF)	LEVELING COURSE AREAS		
				End Area (SF)	Avg. End Area (SF)	Vol. (CF)
TRAPELO RD	19+50		50	0.00	--	--
TRAPELO RD	20+00		50	0.00	0.00	0.00
TRAPELO RD	20+50		50	0.00	0.00	0.00
TRAPELO RD	21+00		50	0.00	0.00	0.00
TRAPELO RD	21+50		50	0.78	0.39	19.53
TRAPELO RD	22+00		50	1.87	1.33	66.28
TRAPELO RD	22+50		50	0.76	1.32	65.78
TRAPELO RD	23+00		50	0.02	0.39	19.45
TRAPELO RD	23+50		50	0.61	0.31	15.70
CHURCH ST	2+00		25	0.25	--	--
CHURCH ST	2+25		25	0.36	0.31	7.72
CHURCH ST	2+50		25	0.30	0.33	8.33
CHURCH ST	2+75		25	0.31	0.31	7.72
CHURCH ST	3+00		25	0.36	0.34	8.45
CHURCH ST	3+25		25	0.30	0.33	8.33

VOLUME	227	CF
CONVERSION FACTOR	0.075	TON/CF
SUB-TOTAL	17	TON
10% CONTINGENCY	1.7	TON
TOTAL	19	TON
SAY	20	TON

472.

**HOT MIX ASPHALT FOR MISCELLANEOUS
WORK**

TON

A. FOR TEMPORARY PAVEMENT OVER DRAINAGE PIPES, IF NECESSARY

	<u>(LF)</u> <u>LENGTH</u>	<u>(LF)</u> <u>WIDTH</u>	<u>(SF)</u> <u>AREA</u>	
10 INCH DUCTILE IRON PIPE	332	3.83	1272.666667	
12 INCH DUCTILE IRON PIPE	27	4.00	108	
12 INCH REINFORCED CONCRETE PIPE	4,310	4.00	17240	
15 INCH REINFORCED CONCRETE PIPE	1,145	3.25	3721.25	
18 INCH REINFORCED CONCRETE PIPE	917	3.50	3209.5	
21 INCH REINFORCED CONCRETE PIPE	761	3.75	2853.75	
24 INCH REINFORCED CONCRETE PIPE	2,606	4.00	10424	
27 INCH REINFORCED CONCRETE PIPE	1,938	4.25	8236.5	
6 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	131	2.50	327.5	
8 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	144	2.65	381.6	
10 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	118	2.83	334.33353	
12 INCH DUCTILE IRON WATER PIPE (RUBBER GASKET)	16	3.00	48	
		ASSUMED DEPTH	0.17	LF
		VOLUME	8026.2	CF

B. FOR TEMPORARY PATCHING AT DRIVEWAYS

ONE PATCH REQ'D PER DRIVEWAY			
AVG. WIDTH	15.0		LF
AVG. DEPTH	0.25		LF
AVG. LENGTH	5		LF
VOLUME	18.8		CF / DRIVEWAY

NO. OF DRIVEWAYS	191		
VOLUME	3581.3		CF

C. FOR TEMPORARY WHEELCHAIR RAMPS

NUMBER OF TEMPORARY WHEELCHAIR RAMPS	50.00		EA
ASSUMED VOLUME PER RAMP	2.50		CF
VOLUME	125.0		CF

D. FOR TEMPORARY PAVEMENT OVER TRAFFIC SIGNAL CONDUIT IN ROADWAY

LENGTH OF TRAFFIC CONTROL CONDUIT	1885.00		FT
AVERAGE WIDTH	2.00		FT
AVERAGE DEPTH	0.17		FT
VOLUME	628.3		CF

E. FOR PATCHING TEST PITS

NUMBER OF PITS	150		EA
AREA OF EACH PIT	36.00		SF
DEPTH OF PATCH	0.17		FT

VOLUME	900.00		CF
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SUBTOTAL	13260.77		CF
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CONVERSION FACTOR	0.075		TON/CF
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SUB TOTAL	994.5575025		TON
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TOTAL	995		TON
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10% CONTINGENCY	99		TON
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TOTAL	1,094		TON
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SAY	1,100		TON
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482.15

HOT APPLIED ASPHALTIC CRACK SEALER
(POLYESTER FIBERS)

GAL

A. TO BE APPLIED TO THE MILLED SURFACE PRIOR TO THE PLACING OF THE BINDER COURSE

AREA OF MILLED SURFACE	116,069 SY	
APPLICATON RATE (SAY .04 GAL/SY)	0.004	
QUANTITY REQUIRED	464	
10% CONTINGENCY	46	GAL
TOTAL	510	GAL
SAY	550	GAL

482.3

SAWING ASPHALT PAVEMENT

LF

A. FROM PAVEMENT AREAS:

BOX WIDENING > 4FT					
<u>STREET</u>	<u>START</u>	<u>END</u>	<u>LENGTH</u>		
MILL STREET	-	-	790		FT
TRAPELO RD	17+40.00	22+00.00	842		FT
TRAPELO RD	22+00.00	27+50.00	1243		FT
TRAPELO RD	27+50.00	33+50.00	766		FT
TRAPELO RD	33+50.00	39+00.00	348		FT
CHURCH STREET	-	-	490		FT
TRAPELO RD	39+00.00	44+00.00	0		FT
TRAPELO RD	44+00.00	50+00.00	181		FT
TRAPELO RD	50+00.00	56+00.00	27		FT
TRAPELO RD	56+00.00	61+00.00	146		FT
TRAPELO RD	61+00.00	67+00.00	73		FT
TRAPELO RD	67+00.00	73+00.00	26		FT
HARRIET AVENUE	-	-	330		FT
TRAPELO RD	73+00.00	79+00.00	309		FT
TRAPELO RD	79+00.00	85+00.00	0		FT
TRAPELO RD	85+00.00	91+00.00	167		FT
TRAPELO RD	91+00.00	96+00.00	557		FT
TRAPELO RD	96+00.00	102+00.00	406		FT
BELMONT ST	102+00.00	108+00.00	1546		FT
BELMONT ST	108+00.00	113+00.00	2438		FT
BELMONT ST	113+00.00	118+00.00	448		FT
BELMONT ST	118+00.00	123+00.00	851		FT
BELMONT ST	123+00.00	129+00.00	335		FT
BELMONT ST	129+00.00	134+00.00	170		FT
BELMONT ST	134+00.00	140+00.00	1072		FT
			SUB-TOTAL	13,561	FT

BOX WIDENING < 4FT					
<u>STREET</u>	<u>START</u>	<u>END</u>	<u>LENGTH</u>		
BELMONT ST	113+00.00	118+00.00	38		FT
BELMONT ST	118+00.00	123+00.00	223		FT
BELMONT ST	123+00.00	129+00.00	184		FT
BELMONT ST	129+00.00	134+00.00	100		FT
BELMONT ST	134+00.00	140+00.00	350		FT
ARLINGTON ST	-	-	54		FT
BELMONT ST	140+00.00	145+00.00	181		FT
			SUB-TOTAL	1,130	FT

B. TRENCHING

10" DUCTILE IRON PIPE	332	FT	ITEM 238.10
12" DUCTILE IRON PIPE	27	FT	ITEM 238.12
12" REINFORCED CONCRETE PIPE	4,310	FT	ITEM 241.12
15" REINFORCED CONCRETE PIPE	1,145	FT	ITEM 241.15
18" REINFORCED CONCRETE PIPE	917	FT	ITEM 241.18
21" REINFORCED CONCRETE PIPE	761	FT	ITEM 241.21
24" REINFORCED CONCRETE PIPE	2,606	FT	ITEM 241.24
27" REINFORCED CONCRETE PIPE	1,938	FT	ITEM 241.27
6" DUCTILE IRON WATER PIPE (RUBBER GASKET)	131	FT	ITEM 302.06
8" DUCTILE IRON WATER PIPE (RUBBER GASKET)	118	FT	ITEM 302.08
10" DUCTILE IRON WATER PIPE (RUBBER GASKET)	118	FT	ITEM 302.10
12" DUCTILE IRON WATER PIPE (RUBBER GASKET)	16	FT	ITEM 302.12
	SUB-TOTAL	12,419	FT

C. STRUCTURES

CATCH BASIN - MUNICIPAL STANDARD	96	EA	ITEM 201.5
CATCH BASIN - MUNICIPAL STANDARD - TYPE 2	2	EA	ITEM 201.52
CATCH BASIN - MUNICIPAL STANDARD - TYPE 3	26	EA	ITEM 201.53
CATCH BASIN - MUNICIPAL STANDARD - TYPE 4	2	EA	ITEM 201.54
MANHOLE - MUNICIPAL STANDARD	96	EA	ITEM 202.01
MANHOLE (9 TO 14 FOOT DEPTH) - MUNICIPAL STANDARD	6	EA	ITEM 202.21
SPECIAL MANHOLE	2	EA	ITEM 203

A. FROM PAVEMENT AREAS:

GUTTER INLET	15	EA	ITEM 204
DROP INLET, TYPE BF	1	EA	ITEM 207.1
DROP INLET, TYPE CF	3	EA	ITEM 208.1
DRAINAGE STRUCTURE ADJUSTED	396	EA	ITEM 220.
DRAINAGE STRUCTURE REBUILT	6	EA	ITEM 220.3
DRAINAGE STRUCTURE REMODELED	18	EA	ITEM 220.5
SANITARY STRUCTURE REBUILT	7	EA	ITEM 220.6
SANITARY STRUCTURE ADJUSTED	119	EA	ITEM 220.7
SANITARY STRUCTURE REMODELED	7	EA	ITEM 220.8
SAWCUT PER STRUCTURE	36	FT	
SUB-TOTAL	28,839	FT	

C. CURBING

<u>STREET</u>	<u>START</u>	<u>END</u>	<u>LENGTH</u>	
TRAPELO RD	17+40.00	22+00.00	696	FT
TRAPELO RD	22+00.00	27+50.00	769	FT
TRAPELO RD	27+50.00	33+50.00	721	FT
TRAPELO RD	33+50.00	39+00.00	583	FT
LEXINGTON AVE	-	-	547	FT
CHURCH ST	-	-	745	FT
TRAPELO RD	39+00.00	44+00.00	1167	FT
TRAPELO RD	44+00.00	50+00.00	1176	FT
TRAPELO RD	50+00.00	55+50.00	1130	FT
TRAPELO RD	55+50.00	61+00.0	1172	FT
TRAPELO RD	61+00.00	67+50.00	1463	FT
TRAPELO RD	67+50.00	73+00.00	1127	FT
BARTLETT AVENUE	-	-	117	FT
TRAPELO RD	73+00.00	79+00.00	1139	FT
TRAPELO RD	79+00.00	84+50.00	1161	FT
TRAPELO RD	84+50.00	91+00.00	1114	FT
COMMON ST N.	-	-	1035	FT
COMMON ST S.	-	-	131	FT
CUSHING ST	-	-	720	FT
TRAPELO RD	91+00.00	96+00.00	1071	FT
TRAPELO RD	96+00.00	102+00.00	816	FT
BELMONT ST	102+00.00	107+00.00	773	FT
BELMONT ST	107+00.00	113+00.00	634	FT
BELMONT ST	113+00.00	118+00.00	606	FT
BELMONT ST	118+00.00	123+00.00	395	FT
SCHOOL ST.	-	-	371	FT
BELMONT ST	123+00.00	129+00.00	1116	FT
BELMONT ST	129+00.00	134+00.00	767	FT
BELMONT ST	134+00.00	140+00.00	688	FT
TEMPLETON PRKY	-	-	214	FT
ARLINGTON ST	-	-	120	FT
BELMONT ST	140+00.00	145+00.00	928	FT
BELMONT ST	145+00.00	148+00.00	469	FT
SUB-TOTAL			25,681	FT

D. LIMIT OF WORK

LENGTH 2,278 FT

E. BACK OF WALK WORK

LENGTH 4,440 FT

TOTAL 88,348 FT

SAY	88,350	FT
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Length calculations located in back of book on back of sidewalk summary page

482.4

SAWING CEMENT CONCRETE

LF

A. LIMIT OF WORK & BACK OF WALK WORK

LENGTH 2,148 FT

TOTAL 2,148 FT

SAY	2,150	FT
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Length calculations located in back of book on back of sidewalk summary page

486.2

COLORED SCORED CEMENT CONCRETE PAVEMENT

SY

AREAS FROM TRAPELO ROAD AND BELMONT STREET

AREA OF WORK 929 SY

TOTAL 928.56 SY

SAY	930	SY
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Area calculations located in back of book on pavement area summary page

487.

RESIN CROSSWALK

SY

<u>STREET</u>	<u>STATION</u>		<u>(SF)</u>
	<u>START</u>	<u>END</u>	<u>AREA</u>
TRAPELO ROAD	39+53.46	39+63.46	460.0
TRAPELO ROAD	86+29.30	88+64.95	3818.0
	SUBTOTAL	4278.0	SF
	CONVERSION FACTOR	9.00	SF/SY
	TOTAL	475.3	SY
	SAY	480	SY

506.

GRANITE CURB TYPE VB - STRAIGHT

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL LENGTH 6335.3 LF

SAY	6340	LF
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506.1

GRANITE CURB TYPE VB - CURVED

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL LENGTH 3146.6 LF

SAY	3150	LF
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509.

**GRANITE TRANSITION CURB FOR
WHEELCHAIR RAMPS - STRAIGHT**

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL LENGTH 1725.05 LF

SAY	1,730	LF
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509.1

**GRANITE TRANSITION CURB FOR
WHEELCHAIR RAMPS - CURVED**

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL LENGTH 2191.5 LF

SAY	2,200	LF
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509.2

GRANITE CURB FOR MBTA POLE - STRAIGHT

FT

STREET	STATION	SIDE	EACH
BELMONT ST	118+38.18	RT.	1
BELMONT ST	119+36.51	RT.	1
BELMONT ST	122+81.56	RT.	1
BELMONT ST	126+04.46	RT.	1
BELMONT ST	127+37.36	RT.	1
BELMONT ST	128+10.41	RT.	1
BELMONT ST	129+28.86	RT.	1
BELMONT ST	130+45.93	RT.	1
BELMONT ST	132+59.68	RT.	1
BELMONT ST	133+93.27	RT.	1
BELMONT ST	137+70.86	RT.	1
BELMONT ST	142+39.57	RT.	1
BELMONT ST	144+00.00	RT.	1
BELMONT ST	104+08.24	LT.	1
BELMONT ST	107+74.98	LT.	1
BELMONT ST	108+92.68	LT.	1
BELMONT ST	110+08.50	LT.	1
BELMONT ST	111+25.64	LT.	1
BELMONT ST	115+97.37	LT.	1
BELMONT ST	118+39.35	LT.	1
BELMONT ST	120+54.98	LT.	1
BELMONT ST	127+35.12	LT.	1
BELMONT ST	131+42.38	LT.	1
BELMONT ST	135+52.53	LT.	1
BELMONT ST	136+66.29	LT.	1
BELMONT ST	137+76.24	LT.	1
BELMONT ST	142+45.50	LT.	1

SUBTOTAL 26.0 EA

CONTINGENCY 5 EA

SUB-TOTAL 31.0 EA

FEET PER CURB 8.0 FT/EA

TOTAL 248.0 FT

SAY	248.0	FT
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514.

GRANITE CURB INLET - STRAIGHT

EA

FROM "CURB LENGTHS - PROPOSED" WORKSHEET	53				
MINUS					
GRANITE CURB INLET - STRAIGHT - MUNICIPAL STANDARD	1				
GRANITE CURB INLET - CURVED	<u>12</u>				
TOTAL	40.1	EA			
<table border="1"><tr><td>SAY</td><td>41</td><td>EA</td></tr></table>			SAY	41	EA
SAY	41	EA			

514.2

GRANITE CURB INLET - STRAIGHT - MUNICIPAL STANDARD

EA

STREET	STATION	SIDE	QUANTITY
MILL ST	03+33.60	RT	1

TOTAL 1.0

SAY	1	EA
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515.

GRANITE CURB INLET - CURVED

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO RD	20+77.60	RT	1
TRAPELO RD	39+42.40	RT	1
TRAPELO RD	39+43.20	LT	1
TRAPELO RD	63+55.80	LT	1
TRAPELO RD	66+67.40	RT	1
TRAPELO RD	78+45.60	RT	1
TRAPELO RD	88+40.70	LT	1
BELMONT RD	107+15.40	RT	1
BELMONT RD	113+46.60	RT	1
BELMONT RD	132+27.00	LT	1
BELMONT RD	140+85.40	RT	1
BELMONT RD	145+88.70	RT	1

TOTAL 12 EA

SAY	12	EA
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516.

GRANITE CURB CORNER TYPE A

EA

<u>STREET</u>	<u>STATION</u>	<u>STATION</u>	<u>SIDE</u>	<u>QUANTITY</u>
MILL ST	00+00.00	02+54.95	Rt.	0
MILL ST	02+73.08	03+69.78	Rt.	0
MILL ST	01+52.73	03+97.36	Lt.	0
TRAPELO RD	17+94.33	18+74.17	Lt.	0
TRAPELO RD	17+97.34	25+31.51	Rt.	6
TRAPELO RD	19+25.02	19+71.18	Lt.	0
TRAPELO RD	20+47.25	28+40.21	Lt.	2
TRAPELO RD	25+50.71	33+36.96	Rt.	24
TRAPELO RD	29+00.00	29+43.22	Lt.	0
TRAPELO RD	29+96.47	34+55.63	Lt.	0
TRAPELO RD	34+02.66	34+77.27	Rt.	0
TRAPELO RD	35+16.19	37+89.40	Rt.	0
CHURCH ST	00+42.67	03+93.07	Lt.	2
CHURCH ST	01+03.25	03+52.97	Rt.	0
LEXINGTON ST	03+89.76	04+44.00	Lt.	0
LEXINGTON ST	01+00.00	04+00.00	Rt.	4
TRAPELO RD	35+03.79	40+89.89	Lt.	4
TRAPELO RD	38+55.02	41+36.33	Rt.	0
TRAPELO RD	41+17.57	43+33.04	Lt.	2
TRAPELO RD	43+50.98	48+38.55	Lt.	6
TRAPELO RD	41+92.27	46+00.35	Rt.	3
TRAPELO RD	46+03.97	50+43.27	Rt.	7
TRAPELO RD	50+68.98	55+34.38	Rt.	2
TRAPELO RD	48+70.70	53+19.10	Lt.	8
TRAPELO RD	53+45.48	56+11.74	Lt.	1
TRAPELO RD	56+32.55	66+74.69	Lt.	19
TRAPELO RD	55+73.92	58+26.56	Rt.	4
TRAPELO RD	58+59.60	60+54.50	Rt.	4
TRAPELO RD	60+87.65	71+26.04	Rt.	16
TRAPELO RD	61+70.26	61+87.90	Cntr.	0
TRAPELO RD	63+01.97	63+34.68	Cntr.	0
TRAPELO RD	65+47.71	65+75.71	Cntr.	0
TRAPELO RD	67+46.45	68+27.84	Cntr.	0
TRAPELO RD	72+95.75	73+23.47	Cntr.	0
TRAPELO RD	67+26.70	70+55.94	Lt.	4
TRAPELO RD	70+72.16	70+98.97	Lt.	0
TRAPELO RD	70+62.78	73+77.48	Lt.	7
TRAPELO RD	74+07.12	86+46.90	Lt.	32
HARRIET AVE	00+45.19	01+78.72	Rt.	0
HARRIET AVE	00+49.04	01+51.44	Lt.	2
TRAPELO RD	71+66.42	73+37.63	Rt.	2
TRAPELO RD	73+60.96	75+48.67	Rt.	4
TRAPELO RD	75+77.87	77+70.45	Rt.	2
TRAPELO RD	77+94.01	84+16.17	Rt.	13
TRAPELO RD	83+29.48	83+68.93	Cntr.	0
TRAPELO RD	84+43.73	87+79.07	Rt.	3
TRAPELO RD	86+61.52	87+01.38	Lt.	0
COMMON ST N	01+51.22	05+56.35	Lt.	0
COMMON ST N	00+66.67	05+15.28	Rt.	2
COMMON ST S	00+58.66	04+05.96	Rt.	5
COMMON ST S	00+68.07	03+36.66	Lt.	11
TRAPELO RD	87+37.93	87+77.10	Lt.	0
TRAPELO RD	88+04.14	92+89.51	Lt.	4

TRAPELO RD	93+13.69	96+57.40	Lt.	8
TRAPELO RD	96+98.08	100+21.36	Lt.	3
TRAPELO RD	88+36.51	100+15.32	Rt.	29
TRAPELO RD	89+93.40	90+17.35	Cntr.	0
TRAPELO RD	92+01.01	92+30.37	Cntr.	0
TRAPELO RD	94+79.58	95+32.29	Cntr.	0
BELMONT ST	100+60.29	102+59.02	Rt.	0
BELMONT ST	102+87.40	115+45.38	Rt.	0
BELMONT ST	100+61.27	104+67.41	Lt.	6
BELMONT ST	104+14.03	104+53.05	Cntr.	0
BELMONT ST	104+96.78	113+05.52	Lt.	14
BELMONT ST	105+48.26	112+75.64	Cntr.	0
BELMONT ST	113+45.73	115+16.49	Lt.	2
BELMONT ST	115+46.35	117+09.62	Lt.	2
BELMONT ST	117+36.83	119+18.78	Lt.	2
BELMONT ST	119+44.36	121+41.45	Lt.	0
BELMONT ST	115+72.25	117+78.88	Rt.	4
BELMONT ST	118+06.25	118+43.96	Rt.	0
BELMONT ST	119+13.09	120+29.18	Rt.	0
BELMONT ST	120+65.25	121+76.99	Rt.	0
SCHOOL ST-N	00+00.00	01+25.00	Rt.	1
SCHOOL ST-N	00+00.00	01+25.00	Lt.	1
SCHOOL ST-S	00+00.00	02+00.00	Lt.	5
BELMONT ST	122+10.11	124+09.49	Rt.	6
BELMONT ST	124+34.99	126+21.79	Rt.	2
BELMONT ST	126+44.23	128+40.34	Rt.	2
BELMONT ST	128+68.44	130+66.90	Rt.	4
BELMONT ST	130+93.89	135+44.00	Rt.	6
BELMONT ST	121+67.40	123+54.63	Lt.	0
BELMONT ST	123+81.24	125+55.42	Lt.	6
BELMONT ST	125+81.53	127+48.90	Lt.	0
BELMONT ST	127+74.44	128+64.66	Lt.	0
BELMONT ST	128+87.86	130+80.77	Lt.	2
BELMONT ST	131+14.85	134+61.73	Lt.	5
BELMONT ST	135+17.64	135+63.11	Lt.	0
BELMONT ST	135+67.15	136+13.87	Rt.	0
BELMONT ST	136+43.33	141+72.73	Rt.	5
BELMONT ST	142+04.65	144+23.25	Rt.	4
BELMONT ST	144+51.14	146+49.04	Rt.	3
BELMONT ST	146+74.88	147+30.15	Rt.	0
BELMONT ST	135+89.79	138+20.30	Lt.	6
BELMONT ST	138+54.34	140+66.77	Lt.	0
BELMONT ST	140+93.56	143+10.27	Lt.	0
BELMONT ST	143+37.67	146+03.00	Lt.	6
BELMONT ST	146+27.00	146+91.48	Lt.	0

TOTAL 339

SAY 339

531.

TIMBER EDGING

FT/BF

<u>STREET</u>	<u>STATION</u>		<u>(FT)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
LEXINGTON ST	3+96.88	4+71.39	73.46
TRAPELO RD	90+7.68	90+17.03	13.35
TRAPELO RD	90+21.66	90+38.25	33.22
TRAPELO RD	90+44.19	90+71.53	29.29
TRAPELO RD	90+93.85	90+75.67	19.96
TRAPELO RD	96+16.04	96+22.34	6.28
TRAPELO RD	96+28.41	96+41.75	13.35
TRAPELO RD	98+9.30	98+26.85	17.56
BELMONT ST	108+95.73	109+07.90	12.17
BELMONT ST	109+17.73	109+25.83	8.10
BELMONT ST	128+94.61	129+22.70	55.14
BELMONT ST	129+25.86	129+41.03	43.44

TOTAL 325

SAY	330
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531.1

TIMBER EDGING REMOVED AND RESET

FT

<u>STREET</u>	<u>STATION</u>		<u>(FT)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	93+60.32		15.8
TRAPELO RD	95+93.25	96+54.66	70.3
BELMONT ST	132+75.71	132+88.57	12.86
TOTAL			99 LF
SAY			100 LF

532.

CEMENT CONCRETE QUARTER ROUND CURB

FT

<u>STREET</u>	<u>STATION</u>		<u>(FT)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
BELMONT ST	122+08.03	122+17.11	29.05
BELMONT ST	144+54.28	144+71.08	25
ARLINGTON ST	01+02.75	01+57.75	55
ARLINGTON ST	01+57.75	01+87.75	30
ARLINGTON ST	2+50.18	2+78.85	28.699
TOTAL			168 FT
SAY			170 FT

532.1

**CEMENT CONCRETE QUARTER ROUND CURB
 REMOVED AND RESET**

FT

<u>STREET</u>	<u>STATION</u>		<u>(FT)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	121+44.94	121+68.95	42.3
BELMONT ST	114+94.59	115+07.65	33.19
BELMONT ST	127+82.01	128+28.05	54.58
BELMONT ST	131+18.92	131+25.45	25.16
BELMONT ST	145+80.81	145+90.71	33

TOTAL 188 LF

SAY	190	LF
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533.1

PAVER EDGING REMOVED AND RESET

FT

<u>STREET</u>	<u>STATION</u>		<u>(FT)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	45+77.07	45+98.57	58.22
TRAPELO RD	96+34.39	96+52.68	51.12
BELMONT ST	115+24.48	115+38.36	24.45

TOTAL 134 LF

SAY	135	LF
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570.1

HOT MIX ASPHALT CURB TYPE 1

LF

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	35+44.89	35+53.81	17.52
TRAPELO RD	62+47.79	62+62.91	20.12
TRAPELO RD	61+74.34	62+24.53	51.08
TRAPELO RD	62+91.07	62+91.08	19.63
BELMONT ST	142+13.49	142+23.91	51.54

TOTAL 160 LF

SAY	160	LF
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580.

CURB REMOVED AND RESET

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 12643.0 LF

SAY	12,650	LF
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580.1

CURB REMOVED, RELOCATED AND RESET

FT

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 2808 LF

SAY	2,810	LF
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581.

CURB INLET REMOVED & RESET

EA

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 43 EA

SAY	43	EA
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581.1

CURB INLET REMOVED, RELOCATED AND RESET

EA

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 48.0 LF

SAY	48	LF
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582.

CURB CORNER REMOVED AND RESET

EA

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 174 EA

SAY	180	EA
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582.2

CURB CORNER REMOVED, RELOCATED AND RESET

EA

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 100 EA

SAY	100	EA
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590.

CURB REMOVED AND STACKED

LF

FROM "CURB LENGTHS - PROPOSED" WORKSHEET

TOTAL 2207.2 LF

SAY	2,208	LF
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593.

EDGING REMOVED AND STACKED

LF

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>(LF)</u>
	<u>START</u>	<u>END</u>		<u>LENGTH</u>
TRAPELO RD	26+95.00	27+61.00	RT/LT	132.0

TOTAL 132.0 LF

SAY	135	LF
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594.

CURB REMOVED AND DISCARDED

594

FROM "CURB LENGTHS - EXISTING" WORKSHEET

TOTAL 2237 LF

SAY	2,240	LF
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645.142

**42 INCH CHAIN LINK FENCE (PTR) VINYL
 COATED (LINE POST OPT.)**

FT

<u>STREET</u>	<u>STA. START</u>	<u>END</u>	<u>(LF) LENGTH</u>	
TRAPELO RD	22+75.00	23+35.00	60	
TRAPELO RD	50+09.00	50+38.00	r&r	37
TRAPELO RD	50+75.00	50+90.00	r&r	25
BELMONT ST	124+41.00	124+65.00	r&r	70
BELMONT ST	125+71.00	126+14.00	r&r	58
BELMONT ST	131+22.00	131+30.00	r&r	25
BELMONT ST	135+96.00	136+25.00		
BELMONT ST	140+52.00	140+61.00	r&r	15
BELMONT ST	142+81.00	143+03.00	r&r	31

TOTAL: 60 FT

SAY	60	FT
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645.148

**48 INCH CHAIN LINK FENCE (PTR) VINYL
COATED (LINE POST OPT.)**

FT

<u>STREET</u>	<u>STA. START</u>	<u>END</u>	<u>(LF) LENGTH</u>
BELMONT ST	144+99.00	145+15.00	19.50
BELMONT ST	145+18.00	145+35.00	19.5

TOTAL: 39 FT

SAY	40	FT
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645.172

**42 INCH CHAIN LINK FENCE (PTR) VINYL
COATED (LINE POST OPT.)**

FT

<u>STREET</u>	<u>STA. START</u>	<u>END</u>	<u>(LF) LENGTH</u>
TRAPELO	61+76.00	62+25.00	49.00
TRAPELO	62+47.00	62+65.00	17.00

TOTAL: 66 FT

SAY	<u>70</u>	FT
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650.042

42 INCH CHAIN LINK GATE WITH GATE POSTS

FT

<u>STREET</u>	<u>STA.</u> <u>START</u>	<u>END</u>	<u>(LF)</u> <u>LENGTH</u>
TRAPELO RD	22+75.00	23+71.00	5
TOTAL:			5.0 LF
SAY			5 LF

650.048

48 INCH CHAIN LINK GATE WITH GATE POSTS

LF

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
BELMONT ST	144+99.00	145+35.00	5.0
			<hr/> 5.0 LF

SAY	5	LF
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650.072

72 INCH CHAIN LINK GATE WITH GATE POSTS

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO	61+76.00	62+25.00	5.00
TRAPELO	62+47.00	62+65.00	5.00
TOTAL			10.0 LF
SAY			10 LF

653.042

**42 INCH CHAIN LINK FENCE CORNER OR
INTERMEDIATE BRACE POST**

EA

<u>STREET</u>	<u>STA. START</u>	<u>END</u>	<u>QUANTITY</u>
TRAPELO RD	22+75.00	23+71.00	4

TOTAL: 4 EA

SAY	4	EA
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653.048

**48 INCH CHAIN LINK FENCE CORNER OR
INTERMEDIATE BRACE POST**

EA

<u>STREET</u>	<u>STA.</u> <u>START</u>	<u>END</u>	<u>QUANTITY</u>	
BELMONT ST	144+99.00	145+15.00	2	
BELMONT ST	145+18.00	145+35.00	2	
TOTAL:			4	EA
SAY			4	EA

653.072

**72 INCH CHAIN LINK FENCE CORNER OR
INTERMEDIATE BRACE POST**

EA

<u>STREET</u>	<u>STATION</u>		<u>QUANTITY</u>
	<u>START</u>	<u>END</u>	
TRAPELO	61+76.00	62+25.00	2.00
TRAPELO	62+47.00	62+65.00	2.00

TOTAL: 4.00 EA

SAY	4	EA
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654.042

42 INCH CHAIN LINK FENCE FABRIC

FT

<u>STREET</u>	<u>STA.</u> <u>START</u>	<u>END</u>	<u>QUANTITY</u>
TRAPELO RD	22+75.00	23+71.00	60
TOTAL:			60 FT
SAY			60 FT

654.048

48 INCH CHAIN LINK FENCE FABRIC

FT

<u>STREET</u>	<u>STA.</u> <u>START</u>	<u>END</u>	<u>QUANTITY</u>	
BELMONT ST	144+99.00	145+15.00	19.50	
BELMONT ST	145+18.00	145+35.00	19.5	
TOTAL:			39	FT
SAY			39	FT

654.072

72 INCH CHAIN LINK FENCE FABRIC

FT

<u>STREET</u>	<u>STATION</u>		<u>QUANTITY</u>
	<u>START</u>	<u>END</u>	
TRAPELO	61+76.00	62+25.00	49.00
TRAPELO	62+47.00	62+65.00	17.00
TOTAL:			66.00 FT
SAY			66 FT

666.

CHAIN LINK FENCE REMOVED AND RESET

FT

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO RD	23+32.98	23+68.55	35.50
TRAPELO RD	23+38.39	23+67.69	29.23
TRAPELO RD	50+08.03	50+36.24	36.50
TRAPELO RD	50+74.60	50+89.01	25.31
BELMONT ST	124+41.00	124+65.00	70
BELMONT ST	125+71.00	126+14.00	58
BELMONT ST	121+20.36	131+26.86	25.14
BELMONT ST	140+54.71	140+62.40	14.20
BELMONT ST	143+82.41	143+04.79	30.94

TOTAL 324.8 FT

SAY	325	FT
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668.

**CHAIN LINK FENCE GATE W/ GATE POSTS
REMOVED AND RESET**

EA

<u>STREET</u>	<u>START</u>	<u>END</u>	<u>QUANTITY</u>
BELMONT ST	135+94.80	136+23.83	1.00

TOTAL 1.0 EA

SAY	1	EA
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670.1

METAL FENCE REMOVED AND RESET

FT

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>(LF)</u>
	<u>START</u>	<u>END</u>		<u>LENGTH</u>
TRAPELO RD	23+37.00	23+69.00	LT	32
TRAPELO RD	23+37.00	23+69.00	LT	32

SUBTOTAL 64 FT

FOR ESTIMATING PURPOSES 0 FT

TOTAL 64 FT

SAY	64	FT
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672.1

**METAL GATE AND GATE POST REMOVED AND
RESET**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>TYPE</u>	<u>(IN) SIZE</u>	<u>QUANT.</u>
TRAPELO RD	00+00.00	00+00.00	-	0	
-	-	-	-	-	
SUBTOTAL					0 EA
FOR ESTIMATING PURPOSES					5 EA
TOTAL:					5 EA
SAY					5 EA

685.3

STONE MASONRY WALL IN CEMENT MORTAR
(BALANCED)

CY

STREET	Station	Distance (LF)	Cut		
			End Area (SF)	Avg. End Area (SF)	Vol. (CF)
MILL STREET	2+31	0	8.16	-	-
MILL STREET	2+00	33	8.16	8.16	269.28
MILL STREET	1+50	50	8.16	8.16	408.00
MILL STREET	1+00	51.5	8.16	8.16	420.24
MILL STREET	0+50	54	8.16	8.16	440.64
MILL STREET	0+00	60	8.16	8.16	489.60
TRAPELO ROAD	19+74	0	8.16	-	-
TRAPELO ROAD	20+00	27	8.16	8.16	220.32
TRAPELO ROAD	20+50	50	8.16	8.16	408.00
TRAPELO ROAD	20+85	38	8.16	8.16	310.08

SUBTOTAL 2966.2 CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 109.86 CY

SAY	110	CY
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690.

**STONE MASONRY WALL REMOVED AND REBUILT
 IN CEMENT MORTAR**

CY

STREET	Station	Distance (LF)	Cut		
			End Area	Avg. End	Vol. (CF)
TRAPELO ROAD	21+10	0	7.90	-	-
TRAPELO ROAD	21+50	42.8	7.90	7.90	338.12
TRAPELO ROAD	22+00	49.7	7.90	7.90	392.63
TRAPELO ROAD	22+50	48.3	7.90	7.90	381.57
TRAPELO ROAD	23+00	48.5	11.80	9.85	477.73
TRAPELO ROAD	23+50	48.25	34.10	22.95	1107.34
TRAPELO ROAD	23+70	18.8	34.10	34.10	641.08
TRAPELO ROAD	23+33	0	7.90	-	-
TRAPELO ROAD	23+70	35.5	7.90	21.00	745.50

SUBTOTAL	4084.0	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL	151.26	CY
SAY	155	CY

697.

SEDIMENTATION FENCE

LF

LENGTH OF SILT FENCE ALONG MILL STREET 136.6 LF
Contingency 300

TOTAL 437 LF

SAY	440	LF
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697.1

SILT SACK

EA

NEW CB TYPE 1	96	EA	ITEM 201.5
NEW CB TYPE 2	2	EA	ITEM 201.52
NEW CB TYPE 3	26	EA	ITEM 201.53
NEW CB TYPE 4	2	EA	ITEM 201.54
CB ADJ	44	EA	ITEM 220
GUTTER INLET	15	EA	ITEM 204
REMODEL	18	EA	ITEM 220.5

TOTAL 203.0 EA

SAY	203	EA
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701.

CEMENT CONCRETE SIDEWALK

SY

A. TRAPELO, BELMONT, AND ALL SIDE STREETS AREAS

TOTAL AREA 98471.00 SF

B. BACK OF WALK AREAS

TOTAL AREA 2081.00 SF

SUBTOTAL 100552.00 SF

CONVERSION FACTOR 9.00 SF/SY

TOTAL 11172.44 SY

SAY	11,180	SY
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Area calculations located in back of book on sidewalk area and back of walk summary pages

701.01

SCORED CEMENT CONCRETE SIDEWALK

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

TOTAL AREA	48996.00	SF
CONVERSION FACTOR	9.00	SF/SY
SUBTOTAL	5444.00	SY
SAY	5,450	SY

Area calculations located in back of book on sidewalk area summary page

701.02

COLORED SCORED CEMENT CONCRETE SIDEWALK

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

TOTAL AREA	11436.00	SF
CONVERSION FACTOR	9.00	SF/SY
SUBTOTAL	1270.67	SY

SAY	1,280	SY
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Area calculations located in back of book on sidewalk area summary page

701.1

CEMENT CONCRETE SIDEWALK AT DRIVEWAY

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

TOTAL AREA	30522.0	SF
CONVERSION FACTOR	9.00	SF/SY
TOTAL	<u>3391.33</u>	SY
SAY	<u>3,400</u>	SY

Area calculations located in back of book on sidewalk area summary page

701.11

SCORED CEMENT CONCRETE SIDEWALK AT DRIVEWAY

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

TOTAL AREA	2389.0	SF
CONVERSION FACTOR	9.00	SF/SY
TOTAL	<u>265.44</u>	SY
SAY	270	SY

Area calculations located in back of book on sidewalk area summary page

701.2

CEMENT CONCRETE WHEELCHAIR RAMP

SY

AREAS FROM TRAPELO, BELMONT, AND ALL SIDE STREETS

TOTAL AREA	33620.0	SF
CONVERSION FACTOR	9.00	SF/SY
TOTAL	<u>3735.56</u>	SY
SAY	3,740	SY

Area calculations located in back of book on sidewalk area summary page

702.

HOT MIX ASPHALT WALK SURFACE

TON

BACK OF SIDEWALK WORK	563.0	SF
SUBTOTAL	563.0	SF
AREA OF DRIVEWAYS WALKS	563.0	SF
DEPTH OF PAVEMENT	2.500	IN
CONVERSION FACTOR	9.00	SF/SY
VOLUME OF PAVEMENT	156.4	SY*IN
CONVERSION FACTOR	0.056	TON/IN/SY
TOTAL	8.8	TON
SAY	9	TON

Area calculations located in back of book on back of sidewalk summary page

703.

HOT MIX ASPHALT DRIVEWAY

TON

BACK OF SIDEWALK WORK	13086.0	SF
SUBTOTAL	13086.0	SF
AREA OF DRIVEWAYS WALKS	13,086.0	SF
DEPTH OF PAVEMENT	2.500	IN
CONVERSION FACTOR	9.00	SF/SY
VOLUME OF PAVEMENT	3635.0	SY*IN
CONVERSION FACTOR	0.056	TON/IN/SY
TOTAL	203.6	TON
SAY 204 TON		

Area calculations located in back of book on back of sidewalk summary page

705.1

FLAGSTONE WALK REMOVED & RELAID

SY

Belmont St Sta. 108+55 Lt.

TOTAL	25.0	SF
SUBTOTAL	25.0	SF
CONVERSION FACTOR	9.00	SF/SY
TOTAL	2.78	SY

SAY	5	SY
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706.1

BRICK WALK REMOVED & RELAID

SY

Trapelo Road Sta. 23+80 Rt.	TOTAL	35.0	SF
Trapelo Road Sta. 29+25 Rt.	TOTAL	27.0	SF
Trapelo Road Sta. 29+80 Rt.	TOTAL	25.0	SF
	SUBTOTAL	35.0	SF
	CONVERSION FACTOR	9.00	SF/SY
	TOTAL	3.89	SY
	SAY	5	SY

707.1

PARK BENCH

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO RD	35+15.00	Lt	1.0
TRAPELO RD	35+21.00	Lt	1.0
TRAPELO RD	35+27.00	Lt	1.0
CHURCH ST	02+13.00	Rt	1.0
COMMON ST N.	00+50.40	Rt	1.0
COMMON ST N.	00+62.30	Rt	1.0
TRAPELO RD	88+67.30	Lt	1.0
TRAPELO RD	90+33.20	Rt	1.0
TRAPELO RD	99+92.30	Rt	1.0
TRAPELO RD	99+95.60	Rt	1.0
BELMONT ST	101+61.20	Rt	1.0
BELMONT ST	119+51.30	Rt	1.0
BELMONT ST	119+88.40	Rt	1.0
BELMONT ST	120+58.90	Lt	1.0

TOTAL 14.00 EA

SAY	14	EA
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707.11

PARK BENCH REMOVED AND STACKED

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO ROAD	35+19.68	Lt.	3.0
TRAPELO ROAD	88+69.31	Lt.	1.0
TRAPELO ROAD	90+33.31	Rt	1.0
COMMON ST N.	01+04.48	Rt	1.0
TOTAL			5.00 EA

SAY	5	EA
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707.12

REPLACEMENT BENCH PLAQUE

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO ROAD	35+19.68	Lt.	3.0
TRAPELO ROAD	88+69.31	Lt.	1.0
TRAPELO ROAD	90+33.31	Rt	1.0
COMMON ST N.	01+04.48	Rt	1.0
TOTAL			5.00 EA

SAY	5	EA
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707.2

TRASH RECEPTACLE

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO RD	35+10.00	Lt	1.0
TRAPELO RD	35+83.10	Rt	1.0
TRAPELO RD	37+01.80	Rt	1.0
CHURCH ST	00+51.20	Lt	1.0
CHURCH ST	01+76.10	Lt	1.0
CHURCH ST	02+73.10	Rt	1.0
CHURCH ST	03+75.80	Lt	1.0
TRAPELO RD	38+77.90	Lt	1.0
TRAPELO RD	40+83.60	Rt	1.0
TRAPELO RD	47+15.60	Rt	1.0
TRAPELO RD	51+93.50	Rt	1.0
TRAPELO RD	53+25.60	Rt	1.0
TRAPELO RD	54+79.20	Rt	1.0
TRAPELO RD	55+52.20	Lt	1.0
TRAPELO RD	56+85.90	Rt	1.0
TRAPELO RD	57+17.50	Lt	1.0
TRAPELO RD	60+47.50	Rt	1.0
TRAPELO RD	63+53.30	Rt	1.0
TRAPELO RD	70+88.30	Rt	1.0
TRAPELO RD	71+80.40	Rt	1.0
TRAPELO RD	84+62.00	Lt	1.0
TRAPELO RD	85+91.30	Rt	1.0
COMMON RD N.	00+54.40	Rt	1.0
COMMON RD N.	01+53.20	Lt	1.0
COMMON RD N.	02+74.20	Rt	1.0
COMMON RD N.	03+07.60	Lt	1.0
COMMON RD N.	03+48.70	Rt	1.0
COMMON RD S.	00+71.00	Rt	1.0
TRAPELO RD	88+45.00	Lt	1.0
TRAPELO RD	89+44.40	Lt	1.0
TRAPELO RD	90+17.30	Rt	1.0
TRAPELO RD	99+71.50	Rt	1.0
BELMONT ST	101+54.90	Rt	1.0
BELMONT ST	122+18.50	Lt	1.0
GROVE ST	00+69.20	Rt	1.0
BELMONT ST	141+13.20	Lt	1.0
BELMONT ST	144+05.70	Lt	1.0

TOTAL 37.00 EA

SAY	37	EA
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707.21

TRASH RECEPTACLE REMOVED AND STACKED

EA

STREET	STATION	SIDE	QUANTITY
TRAPELO RD	36+15.80	Lt	1.0
CHURCH ST	01+63.40	Lt	1.0
CHURCH ST	02+73.10	Rt	1.0
CHURCH ST	03+52.20	Lt	1.0
TRAPELO RD	38+77.90	Lt	1.0
TRAPELO RD	39+73.30	Rt	1.0
TRAPELO RD	41+37.20	Rt	1.0
TRAPELO RD	47+28.20	Rt	1.0
TRAPELO RD	52+48.20	Rt	1.0
TRAPELO RD	53+18.30	Rt	1.0
TRAPELO RD	53+48.60	Rt	1.0
TRAPELO RD	54+79.90	Lt	1.0
TRAPELO RD	56+30.00	Rt	1.0
TRAPELO RD	60+48.50	Rt	1.0
TRAPELO RD	66+65.00	Rt	1.0
TRAPELO RD	68+05.00	Rt	1.0
TRAPELO RD	70+87.00	Rt	1.0
TRAPELO RD	84+62.00	Lt	1.0
TRAPELO RD	85+82.00	Rt	1.0
COMMON ST N.	00+73.40	Rt	1.0
COMMON ST N.	01+51.60	Lt	1.0
COMMON ST N.	02+74.20	Rt	1.0
COMMON ST N.	03+07.60	Lt	1.0
COMMON ST S.	00+57.30	Rt	1.0
TRAPELO RD	88+45.00	Lt	1.0
TRAPELO RD	89+44.20	Lt	1.0
TRAPELO RD	90+17.30	Rt	1.0
TRAPELO RD	99+03.10	Rt	1.0
BELMONT ST	101+58.80	Rt	1.0
BELMONT ST	120+58.90	Lt	1.0
BELMONT ST	122+22.80	Lt	1.0
GROVE ST	00+64.80	Rt	1.0
BELMONT ST	143+90.30	Lt	1.0
BELMONT ST	146+16.00	Rt	1.0

TOTAL 34.00 EA

SAY	34	EA
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707.71

3 INCH WAVERLY TRAIL MEDALLIAN (INSTALLATION ONLY)

EA

	STATION			
<u>STREET</u>	<u>START</u>	<u>END</u>	<u>SIDE</u>	<u>QUANTITY</u>
TRAPELO RD	17+40.00	22+00.00	Rt	13.0
TRAPELO RD	22+00.00	27+00.00	Rt	28.0
TRAPELO RD	27+00.00	33+00.00	Rt	37.00
TRAPELO RD	33+00.00	39+00.00	Rt	31.00
TRAPELO RD	39+00.00	44+00.00	Rt	7.00
TRAPELO RD	39+00.00	44+00.00	Lt	20.0

TOTAL 136.00 EA

SAY	136	EA
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707.72

12 INCH WAVERLY TRAIL MEDALLIAN (INSTALLATION ONLY)

EA

	STATION			
<u>STREET</u>	<u>START</u>	<u>END</u>	<u>SIDE</u>	<u>QUANTITY</u>
TRAPELO RD	17+40.00	22+00.00	Rt	1.0
TRAPELO RD	22+00.00	27+00.00	Rt	2.0
TRAPELO RD	27+00.00	33+00.00	Rt	0.00
TRAPELO RD	33+00.00	39+00.00	Rt	3.00
TRAPELO RD	39+00.00	44+00.00	Rt	2.00
TRAPELO RD	39+00.00	44+00.00	Lt	2.0

TOTAL 10.00 EA

SAY	10	EA
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707.81

WAVERLEY TRAIL SIGN REMOVED AND RESET

EA

STREET	STATION	SIDE	QUANTITY	
Trapelo Road	22+85	Rt.	1.0	
		TOTAL	1.00	EA
		SAY	50	EA

707.82

ELECTRIC BOLLARD SYSTEM LOCATION 1

LUMP SUM

<u>ITEM</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>UNIT PRICE</u>	<u>PRICE</u>
ELEC. BOLLARDS	4	EA	1500	6000
WIRES (3X)	144	FT	2	288
TIMER	1	EA	500	500

TOTAL 6788.00 DOLLARS

SAY	6,790	DOLLARS
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707.83

ELECTRIC BOLLARD SYSTEM LOCATION 2

LUMP SUM

<u>ITEM</u>	<u>QUANTITY</u>	<u>UNITS</u>	<u>UNIT PRICE</u>	<u>PRICE</u>
ELEC. BOLLARDS	13	EA	1500	19500
WIRES (3X)	510	FT	2	1020
TIMER	1	EA	500	500

TOTAL 21020.00 DOLLARS

SAY	21,020	DOLLARS
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707.9

BICYCLE RACK

EA

STREET	STATION	SIDE	QUANTITY
CHURCH ST	02+45.20	Rt	1.0
TRAPELO RD	39+37.80	Rt	1.0
TRAPELO RD	39+80.20	Rt	1.0
TRAPELO RD	55+57.00	Lt	1.0
TRAPELO RD	56+80.90	Rt	1.0
TRAPELO RD	63+48.50	Rt	1.0
HARRIET AVE	00+52.10	Lt	1.0
TRAPELO RD	83+51.10	Rt	1.0
COMMON ST N.	00+72.20	Rt	1.0
COMMON ST N.	01+51.00	Lt	1.0
TRAPELO RD	88+57.00	Lt	1.0
TRAPELO RD	89+91.70	Rt	1.0
TRAPELO RD	99+67.50	Rt	1.0
BELMONT ST	101+50.40	Rt	1.0
BELMONT ST	107+49.60	Rt	1.0
BELMONT ST	113+56.20	Rt	1.0
BELMONT ST	119+32.10	Rt	1.0
BELMONT ST	119+38.00	Rt	1.0
BELMONT ST	122+22.60	Lt	1.0
BELMONT ST	129+22.30	Lt	1.0
BELMONT ST	141+17.20	Rt	1.0
BELMONT ST	145+70.00	Rt	1.0

TOTAL 22.00 EA

SAY	22	EA
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710.4

BOUND - PLAIN GRANITE

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>NUMBER</u>
MILL ST	03+12.58	RT	1.0
TRAPELO RD	30+18.83	LT	1.0
TRAPELO RD	31+63.20	LT	1.0
BELMONT ST	125+99.63	RT	1.0
BELMONT ST	128+98.40	RT	1.0

TOTAL: 5.0 EA

SAY	5	EA
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711.

BOUND REMOVED AND RESET

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>NUMBER</u>
TRAPELO RD	25+25.50	RT	1.0
LEXINGTON ST	04+00.50	RT	1.0
LEXINGTON ST	04+03.70	RT	1.0
BELMONT ST	130+72.70	LT	1.0
BELMONT ST	131+22.70	LT	1.0
BELMONT ST	138+12.30	LT	1.0
BELMONT ST	138+62.40	LT	1.0
BELMONT ST	140+60.30	LT	1.0

TOTAL REMOVED & RESET: 8.0 EA

SAY	8	EA
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716

BARBER SHOP POST REMOVED & RESET

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>NUMBER</u>
COMMON ST NORTH	01+12.00	RT	1.0

TOTAL REMOVED & RESET: 1.0 EA

SAY	1	EA
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740.

**ENGINEERS FIELD OFFICE AND
EQUIPMENT - TYPE A**

MONTH

FROM PROJECT INFO AT BACK OF CALCULATON BOOK

SAY	30	MO
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745.1

**PEDESTRIAN BUS SHELTER REMOVED
AND RESET**

EA

<u>STREET</u>	<u>STATION</u>	<u>LENGTH</u>	<u>WIDTH</u>	<u>AREA</u>	<u>NUMBER</u>
CHURCH ST	02+63.56	10.10	5.18	52.36	1.0
TRAPELO RD	101+73.47	18.00	6.03	108.51	1.0

TOTAL 2.00 EA

SAY	2	EA
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745.1

PEDESTRIAN BUS SHELTER INSTALLED

EA

STREET	STATION	LENGTH	WIDTH	AREA	NUMBER
TRAPELO RD	37+24.43	18.0	6.0	108.0	1.0
TRAPELO RD	56+57.67	18.0	6.0	108.0	1.0
TRAPELO RD	71+90.36	18.0	6.0	108.0	1.0
TRAPELO RD	83+75.00	18.0	6.0	108.0	1.0
BELMONT ST	113+72.02	18.0	6.0	108.0	1.0
BELMONT ST	146+02.70	18.0	6.0	108.0	1.0
BELMONT ST	141+43.87	18.0	6.0	108.0	1.0

TOTAL 7.00 EA

SAY	7	EA
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748.

MOBILIZATION

LS

JOBWIDE LUMP SUM ITEM (1.5% TO 3.0% OF PROJECT ESTIMATE)

PROJECT ESTIMATE = \$9,573,116
MOBILIZATION PERCENTAGE = 3.0%
MOBILIZATION COST = \$287,193
ROUNDED MOBILIZATION COST = \$288,000

SAY	1	LS
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751.

LOAM BORROW

CY

4" LOAM BORROW	35,718.0	SF
DEPTH	0.33	FT
	11906	CF
+25% SWELL	8,929.5	CF
SUBTOTAL	56,553.5	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL	2094.574074	CY

SAY	2,095	CY
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12" LOAM BORROW	1,745.0	SF
DEPTH	1.00	FT
	1745	CF
+25% SWELL	436.3	CF
SUBTOTAL	3,927.3	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL	145.4537037	CY

SAY	150	CY
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TOTAL LOAM BORROW	SAY	2,245	CY
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Area calculations located in back of book on sidewalk areas summary page

752.1

TREE PIT

CY

TREE PIT	30,805.0	SF
DEPTH	2.00	FT
	61610	CF
+25% SWELL	<u>7,701.3</u>	CF
SUBTOTAL	100,118.3	CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 3708.083333 CY

SAY	3,710	CY
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Area calculations located in back of book on sidewalk areas summary page

752.3

ROOT PATH

FT

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>
CHURCH ST	00+76.00	LT	53
CHURCH ST	01+10.00	LT	43
CHURCH ST	02+16.00	LT	93
CHURCH ST	03+22.00	LT	45
CHURCH ST	03+53.00	LT	42
TRAPELO RD	40+49.00	RT	72
TRAPELO RD	41+59.00	LT	16
TRAPELO RD	42+11.00	LT	16
TRAPELO RD	42+46.00	RT	20
TRAPELO RD	42+66.00	RT	20
TRAPELO RD	43+34.00	RT	15
TRAPELO RD	52+33.00	RT	148
TRAPELO RD	52+83.00	RT	87
TRAPELO RD	53+19.00	RT	44
TRAPELO RD	53+49.00	RT	30
TRAPELO RD	53+73.00	RT	26
TRAPELO RD	54+00.00	LT	39
TRAPELO RD	54+31.00	LT	42
TRAPELO RD	54+61.00	LT	40
TRAPELO RD	54+61.00	RT	22
TRAPELO RD	54+92.00	LT	43
TRAPELO RD	55+26.00	RT	55
TRAPELO RD	56+97.00	LT	20
TRAPELO RD	57+13.00	RT	77
TRAPELO RD	59+00.00	RT	18
TRAPELO RD	59+61.00	RT	18
TRAPELO RD	61+20.00	LT	16
TRAPELO RD	61+55.00	LT	16
TRAPELO RD	61+98.00	LT	16
TRAPELO RD	62+91.00	LT	16
TRAPELO RD	63+36.00	-	30
TRAPELO RD	64+94.00	RT	15
TRAPELO RD	65+18.00	RT	15
TRAPELO RD	68+88.00	RT	23
TRAPELO RD	69+64.00	RT	13
TRAPELO RD	69+94.00	RT	30
TRAPELO RD	70+30.00	RT	38
TRAPELO RD	70+64.00	RT	22
TRAPELO RD	84+28.00	LT	14
TRAPELO RD	85+10.00	LT	55
TRAPELO RD	85+41.00	LT	70
TRAPELO RD	85+72.00	LT	58
TRAPELO RD	86+73.00	LT	24
COMMON ST N.	00+85.00	LT	24
COMMON ST N.	01+41.00	RT	63
COMMON ST N.	01+90.00	LT	12
COMMON ST N.	02+25.00	LT	19
COMMON ST N.	02+35.00	RT	50
COMMON ST N.	02+79.00	RT	16
COMMON ST N.	03+04.00	LT	33
COMMON ST N.	03+40.00	RT	40
COMMON ST S.	00+94.00	RT	55
COMMON ST S.	01+74.00	RT	60
COMMON ST S.	01+91.00	LT	12
COMMON ST S.	02+09.00	RT	40
COMMON ST S.	02+30.00	LT	12
COMMON ST S.	02+45.00	LT	30
COMMON ST S.	02+60.00	LT	12
TRAPELO RD	91+03.00	RT	18
TRAPELO RD	91+29.00	RT	15
TRAPELO RD	91+78.00	LT	12
TRAPELO RD	91+91.00	RT	15
TRAPELO RD	92+09.00	RT	15
TRAPELO RD	92+25.00	LT	12
TRAPELO RD	92+28.00	RT	15
TRAPELO RD	92+62.00	LT	24
TRAPELO RD	92+64.00	RT	38
TRAPELO RD	92+80.00	LT	20
TRAPELO RD	93+22.00	LT	15
TRAPELO RD	93+41.00	LT	20
TRAPELO RD	93+86.00	RT	12
TRAPELO RD	94+00.00	LT	15
TRAPELO RD	94+34.00	LT	15
TRAPELO RD	94+40.00	RT	13

TRAPELO RD	94+60.00	LT	15
TRAPELO RD	94+85.00	RT	15
TRAPELO RD	95+55.00	LT	15
TRAPELO RD	97+25.00	RT	15
TRAPELO RD	99+35.00	LT	12
BELMONT ST	101+44.00	LT	15
BELMONT ST	103+11.00	LT	15
BELMONT ST	103+60.00	LT	15
BELMONT ST	103+90.00	LT	15
BELMONT ST	104+25.00	LT	15
BELMONT ST	106+34.00	LT	15
BELMONT ST	106+92.00	LT	15
BELMONT ST	107+48.00	LT	15
BELMONT ST	108+17.00	LT	15
BELMONT ST	108+59.00	LT	15
BELMONT ST	109+59.00	LT	15
BELMONT ST	109+85.00	LT	15
BELMONT ST	110+75.00	LT	15
BELMONT ST	111+79.00	LT	15
BELMONT ST	112+19.00	LT	15
BELMONT ST	116+17.00	LT	10
BELMONT ST	116+57.00	LT	12
BELMONT ST	117+72.00	RT	15
BELMONT ST	117+79.00	LT	12
BELMONT ST	118+12.00	RT	15
BELMONT ST	118+15.00	LT	17
BELMONT ST	118+85.00	LT	12
SCHOOL ST	-	-	12
SCHOOL ST	-	-	12
SCHOOL ST	-	-	12
SCHOOL ST	00+90.00	LT	12
SCHOOL ST	01+16.00	LT	12
SCHOOL ST	01+43.00	LT	12
SCHOOL ST	01+80.00	LT	17
BELMONT ST	122+82.00	RT	20
BELMONT ST	126+55.00	RT	15
BELMONT ST	126+92.00	RT	30
BELMONT ST	137+92.00	RT	16
BELMONT ST	138+64.00	LT	33
BELMONT ST	138+95.00	LT	47
BELMONT ST	139+29.00	LT	41
BELMONT ST	139+63.00	LT	20
BELMONT ST	140+40.00	RT	20
BELMONT ST	142+61.00	LT	14
BELMONT ST	143+80.00	LT	14
BELMONT ST	143+85.00	RT	10
BELMONT ST	144+05.00	LT	15
BELMONT ST	145+20.00	LT	16
BELMONT ST	145+77.00	LT	14
BELMONT ST	146+81.00	LT	15

TOTAL 3186 FT

SAY	3,190	FT
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752.31

BIAXIAL SOIL REINFORCING GRID

FT

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>
SEE ROOTPATH QUANTITIES			3,190
2X ROOT PATH AREA		TOTAL	6380 FT
		SAY	6,380 FT

752.4

BIO-SWALE SOIL

CY

STREET	STA	STA	SIDE	AREA (SF)
TRAPELO RD	18+43.00	20+83.00	RT	2,033.0

DEPTH	2.00 FT	
	4066 CF	
+25% SWELL	508.3	
SUBTOTAL	6,609.3	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL	244.787037	CY
SAY	245	CY

752.5

STRUCTURAL SOIL

CY

STREET	STA	SIDE	AREA (SF)
LEXINGTON ST	00+86.00	RT	106.0
TRAPELO RD	65+96.00	RT	150
TRAPELO RD	72+31.00	LT	90
TRAPELO RD	72+85.00	LT	29
TRAPELO RD	73+36.00	LT	51
COMMON ST S.	01+12.00	LT	67
COMMON ST S.	03+23.00	LT	168
COMMON ST S.	03+50.00	RT	168
TRAPELO RD	96+84.00	RT	118
TRAPELO RD	97+30.00	RT	120
TRAPELO RD	98+36.00	RT	113
BELMONT ST	124+92.00	LT	81
BELMONT ST	125+41.00	LT	65
BELMONT ST	133+80.00	LT	405
GROVE ST	00+62.00	RT	89
BELMONT ST	137+68.00	RT	219
BELMONT ST	139+88.00	RT	56

TOTAL	2,095	SF
DEPTH	1.00	FT
	2095	CF
+25% SWELL	523.8	CF
SUBTOTAL	2,618.8	CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 96.99 CY

SAY	100	CY
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756.

NPDES STORM WATER POLLUTION PLAN

LS

JOBWIDE LUMP SUM ITEM (REQUIRED IF OVER ONE ACRE OF EARTH DISTURBANCE)

EARTH DISTURBANCE

FULL DEPTH AREAS =	70319.00	SF
BOX WIDENED AREA =	326.00	SF
SIDEWALK AREAS =	364660.00	SF
DRIVEWAY AREAS =	15371.00	SF
LOAM AND SEED AREA =	61079.00	SF

SUBTOTAL	511755.00	SF
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CONVERSION FACTOR:	43560	SF / A
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TOTAL:	11.748	A
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SAY	1	LS
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765.

SEEDING

SY

SEEDING AREA 61,079.0 SF

SUBTOTAL 61,079.0 SF

CONVERSION FACTOR 9.00 SF/SY

TOTAL 6786.55556 SY

SAY	6,790	SY
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Area calculations located in back of book on sidewalk areas summary page

767.6

AGED PINE BARK MULCH

CY

AGED PINE BARK MULCH	8,534.0	SF
DEPTH	0.25	FT
	2133.5	CF
+25% SWELL	2,133.5	CF
SUBTOTAL	12,801.3	CF

CONVERSION FACTOR 27.00 CF/CY

TOTAL 474.12 CY

SAY	475	CY
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Area calculations located in back of book on sidewalk areas summary page

767.8

BALES OF HAY FOR EROSION CONTROL

EA

ASSUME EACH HAYBALE 3' LONG

A. HAYBALES WITH SILT FENCE (FROM ITEM 697):

LENGTH OF SILT FENCE	137	LF
Contingency	<u>300</u>	LF
Total	437	

HAYBALES PER FOOT	0.33	EA
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TOTAL	<u>144</u>	EA
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SAY	150	EA
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770.

LAWN SODDING

SY

FROM "LOAMED AREAS" WORKSHEET:

LAWN SODDING AREA AT RAIN GARDEN / BIO-SWALE (ITEM 752.4): 2,033.00 SF

SUBTOTAL 2,033.00 SF

CONVERSION FACTOR 9.00 SF/SY

TOTAL 225.8888889 SY

SAY	226	SY
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773.238

PINE - RED 8-10 FEET

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	21 + 42	LT	1	
TRAPELO RD.	21 + 57	LT	1	
TRAPELO RD.	22 + 0	LT	1	
TRAPELO RD.	22 + 35	LT	1	
TRAPELO RD.	22 + 66	LT	1	
TRAPELO RD.	22 + 97	LT	1	
TRAPELO RD.	23 + 29	LT	1	
TRAPELO RD.	23 + 63	LT	1	
		TOTAL	8	EA
SAY				8 EA

773.436

PINE - WHITE 8-10 FEET

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	19 + 67	LT	1	
TRAPELO RD.	20 + 4	LT	1	
		TOTAL	2	EA
			SAY	2 EA

775.004

ASH - GREEN 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>		
BARTLET AVE.	0 + 57	LT	1		
BARTLET AVE.	0 + 83	RT	1		
BARTLET AVE.	0 + 87	LT	1		
BARTLET AVE.	1 + 10	RT	1		
		TOTAL	4	EA	
		SAY	4	EA	

775.018

BEECH- RIVERS PURPLE 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	101 + 14	RT	1	
		TOTAL	1	EA
		SAY	1	EA

775.028

**ELM - AMERICAN 'VALLEY FORGE' 2-2.5 INCH
 CALIPER**

EA

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>QTY.</u>
PLEASEANT ST.	0	+ 23	LT	1
PLEASEANT ST.	0	+ 49	LT	1
PLEASEANT ST.	0	+ 75	LT	1
TRAPELO RD.	18	+ 17	MED	1
TRAPELO RD.	18	+ 56	RT	1
TRAPELO RD.	19	+ 1		1
TRAPELO RD.	19	+ 90	RT	1
TRAPELO RD.	20	+ 17	RT	1
TRAPELO RD.	20	+ 44	RT	1
TRAPELO RD.	20	+ 71	RT	1
TRAPELO RD.	23	+ 19		1
TRAPELO RD.	24	+ 25	RT	1
TRAPELO RD.	24	+ 53	RT	1
TRAPELO RD.	24	+ 79	RT	1
TRAPELO RD.	25	+ 70	RT	1
TRAPELO RD.	26	+ 3	RT	1
TRAPELO RD.	26	+ 36	RT	1
TRAPELO RD.	26	+ 75	RT	1
TRAPELO RD.	27	+ 22	RT	1
TRAPELO RD.	28	+ 36	RT	1
TRAPELO RD.	28	+ 84	RT	1
TRAPELO RD.	41	+ 58	LT	1
TRAPELO RD.	42	+ 11	LT	1
TRAPELO RD.	42	+ 63	LT	1
TRAPELO RD.	43	+ 9	LT	1
TRAPELO RD.	43	+ 28	LT	1
TRAPELO RD.	43	+ 70	LT	1
TRAPELO RD.	44	+ 9	LT	1
TRAPELO RD.	44	+ 24	RT	1
TRAPELO RD.	44	+ 57	RT	1
TRAPELO RD.	44	+ 87	RT	1
TRAPELO RD.	44	+ 89	LT	1
TRAPELO RD.	45	+ 43	RT	1
TRAPELO RD.	45	+ 69	RT	1
TRAPELO RD.	46	+ 51	RT	1
TRAPELO RD.	46	+ 92	RT	1
TRAPELO RD.	47	+ 14	LT	1
TRAPELO RD.	47	+ 93	LT	1
TRAPELO RD.	48	+ 13	RT	1
TRAPELO RD.	48	+ 24	LT	1
TRAPELO RD.	48	+ 42	RT	1
TRAPELO RD.	48	+ 85	RT	1
TRAPELO RD.	49	+ 16	RT	1
TRAPELO RD.	49	+ 49	RT	1
TRAPELO RD.	49	+ 50	LT	1
TRAPELO RD.	49	+ 79	RT	1
TRAPELO RD.	49	+ 81	LT	1
TRAPELO RD.	50	+ 10	RT	1
TRAPELO RD.	50	+ 17	LT	1
TRAPELO RD.	50	+ 64	LT	1
TRAPELO RD.	51	+ 0	RT	1
TRAPELO RD.	51	+ 6	LT	1
TRAPELO RD.	51	+ 37	RT	1
TRAPELO RD.	51	+ 98	LT	1
TRAPELO RD.	52	+ 4	RT	1
TRAPELO RD.	52	+ 49	LT	1
TRAPELO RD.	52	+ 63	RT	1
TRAPELO RD.	53	+ 2	RT	1
TRAPELO RD.	53	+ 35	RT	1
TRAPELO RD.	56	+ 96	RT	1
TRAPELO RD.	57	+ 30	RT	1
TRAPELO RD.	57	+ 85	LT	1
TRAPELO RD.	58	+ 11	LT	1
TRAPELO RD.	58	+ 51	LT	1
TRAPELO RD.	58	+ 79	LT	1
TRAPELO RD.	59	+ 1	RT	1
TRAPELO RD.	59	+ 18	LT	1

TRAPELO RD.	59	+	53	LT	1
TRAPELO RD.	100	+	73	RT	1
TRAPELO RD.	100	+	94	RT	1
TRAPELO RD.	101	+	16	RT	1
TRAPELO RD.	101	+	43	LT	1
TRAPELO RD.	101	+	48	RT	1
TRAPELO RD.	101	+	93	RT	1
TRAPELO RD.	101	+	94	LT	1
TRAPELO RD.	102	+	20	RT	1
TRAPELO RD.	102	+	47	RT	1
TRAPELO RD.	103	+	4	LT	1
TRAPELO RD.	103	+	4	RT	1
TRAPELO RD.	103	+	60	LT	1
TRAPELO RD.	103	+	90	LT	1
TRAPELO RD.	105	+	2	LT	1
TRAPELO RD.	105	+	10	LT	1
TRAPELO RD.	105	+	55	MED	1
TRAPELO RD.	105	+	64	MED	1
TRAPELO RD.	105	+	95	MED	1
TRAPELO RD.	106	+	24	MED	1
TRAPELO RD.	106	+	33	LT	1
TRAPELO RD.	106	+	85	MED	1
TRAPELO RD.	107	+	3	LT	1
TRAPELO RD.	107	+	43	MED	1
TRAPELO RD.	107	+	49	LT	1
TRAPELO RD.	107	+	92	MED	1
TRAPELO RD.	108	+	16	LT	1
TRAPELO RD.	108	+	17	MED	1
TRAPELO RD.	108	+	42	MED	1
TRAPELO RD.	108	+	59	LT	1
TRAPELO RD.	108	+	67	MED	1
TRAPELO RD.	108	+	92	MED	1
TRAPELO RD.	109	+	18	MED	1
TRAPELO RD.	109	+	42	MED	1
TRAPELO RD.	109	+	59	LT	1
TRAPELO RD.	109	+	67	MED	1
TRAPELO RD.	109	+	83	LT	1
TRAPELO RD.	109	+	93	MED	1
TRAPELO RD.	110	+	17	MED	1
TRAPELO RD.	110	+	42	MED	1
TRAPELO RD.	110	+	54	LT	1
TRAPELO RD.	110	+	67	MED	1
TRAPELO RD.	110	+	74	LT	1
TRAPELO RD.	111	+	17	MED	1
TRAPELO RD.	111	+	42	MED	1
TRAPELO RD.	111	+	66	MED	1
TRAPELO RD.	111	+	78	LT	1
TRAPELO RD.	112	+	16	MED	1
TRAPELO RD.	112	+	18	LT	1
TRAPELO RD.	112	+	40	MED	1
TRAPELO RD.	113	+	68	LT	1
TRAPELO RD.	114	+	31	LT	1

TOTAL 119 EA

SAY	119	EA
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775.054

HORNBEAM -FASTIGIATE 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	91 + 91	RT	1	
TRAPELO RD.	92 + 9	RT	1	
TRAPELO RD.	92 + 86	LT	1	
TRAPELO RD.	93 + 99	LT	1	
TRAPELO RD.	94 + 32	LT	1	
TRAPELO RD.	96 + 73	RT	1	
TRAPELO RD.	98 + 34	RT	1	
TRAPELO RD.	104 + 24	LT	1	
TRAPELO RD.	109 + 3	LT	1	
TRAPELO RD.	111 + 39	LT	1	
TRAPELO RD.	133 +	RT	1	
TRAPELO RD.	134 +	RT	1	
TRAPELO RD.	134 +	RT	1	
		TOTAL	13	EA
			SAY	13 EA

775.061

**PAGODA TREE 'REGENT' 2-2.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>				
LEXINGTON ST.	0 + 57	MED	1				
LEXINGTON ST.	0 + 75	MED	1				
TRAPELO RD.	34 + 26	MED	1				
		TOTAL	3	EA			
<table border="1"><tr><td>SAY</td><td>3</td><td>EA</td></tr></table>				SAY	3	EA	
SAY	3	EA					

775.128

KATSURA TREE 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	133 + 17	RT	1	
TRAPELO RD.	134 + 27	RT	1	
TRAPELO RD.	134 + 87	RT	1	
		TOTAL	3	EA
			SAY	3 EA

775.148

LINDEN - LITTLE LEAF 'GREENSPIRE' 2-2.5
INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	84 + 22	RT	1
TRAPELO RD.	84 + 60	RT	1
TRAPELO RD.	84 + 89	RT	1
TRAPELO RD.	84 + 94	RT	1
TRAPELO RD.	90 + 76	RT	1
TRAPELO RD.	91 + 3	RT	1
TRAPELO RD.	91 + 28	RT	1
TRAPELO RD.	91 + 78	LT	1
TRAPELO RD.	92 + 26	LT	1
TRAPELO RD.	92 + 29	RT	1
TRAPELO RD.	92 + 54	LT	1
TRAPELO RD.	92 + 54	RT	1
TRAPELO RD.	93 + 18	LT	1
TRAPELO RD.	93 + 43	LT	1
TRAPELO RD.	93 + 84	RT	1
TRAPELO RD.	94 + 39	RT	1
TRAPELO RD.	94 + 60	LT	1
TRAPELO RD.	94 + 85	RT	1
TRAPELO RD.	94 + 90	MED	1
TRAPELO RD.	95 + 22	MED	1
TRAPELO RD.	97 + 8	LT	1
TRAPELO RD.	97 + 26	RT	1
TRAPELO RD.	98 + 39	LT	1
TRAPELO RD.	99 + 34		1

TOTAL 24 EA

SAY	24	EA
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775.437

LOCUST-HONEY-'SKYLINE' 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>
CHURCH ST.	0 + 94	LT	1
N. COMMON ST.	0 + 99	MED	1
S. COMMON ST.	1 + 12	LT	1
N. COMMON ST.	1 + 17	RT	1
N. COMMON ST.	1 + 54	RT	1
CHURCH ST.	1 + 69	RT	1
N. COMMON ST.	1 + 79	LT	1
S. COMMON ST.	1 + 92	LT	1
S. COMMON ST.	1 + 94	RT	1
CHURCH ST.	1 + 95	RT	1
N. COMMON ST.	2 + 6	LT	1
CHURCH ST.	2 + 21	RT	1
S. COMMON ST.	2 + 24	RT	1
S. COMMON ST.	2 + 30	LT	1
CHURCH ST.	2 + 45	LT	1
S. COMMON ST.	2 + 59	LT	1
TRAPELO RD.	3 + 0	RT	1
S. COMMON ST.	3 + 23	LT	1
N. COMMON ST.	3 + 26	RT	1
S. COMMON ST.	3 + 50	RT	1
N. COMMON ST.	3 + 53	RT	1
N. COMMON ST.	3 + 80	RT	1
CHURCH ST.	22 + 47	RT	1
TRAPELO RD.	88 + 18	LT	1

TOTAL 24 EA

SAY	24	EA
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776.042

MAPLE- HEDGE 1.5-2 INCH CALIPER

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	65 + 96		1	
TRAPELO RD.	66 + 6		1	
TRAPELO RD.	67 + 93	LT	1	
TRAPELO RD.	68 + 8	LT	1	
		TOTAL	4	EA
SAY				4 EA

776.523

**MAPLE - RED- 'ARMSTRONG' 2-2.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>
GROVE ST.	0 + 58	RT	1
LEXINGTON	1 + 28	RT	1
TRAPELO RD.	40 + 26	RT	1
TRAPELO RD.	40 + 72	RT	1
TRAPELO RD.	42 + 35	RT	1
TRAPELO RD.	42 + 56	RT	1
TRAPELO RD.	42 + 77	RT	1
TRAPELO RD.	43 + 24	RT	1
TRAPELO RD.	122 + 64	LT	1
TRAPELO RD.	123 + 0	LT	1
TRAPELO RD.	123 + 38	RT	1
TRAPELO RD.	123 + 77	RT	1
TRAPELO RD.	124 + 72	RT	1
TRAPELO RD.	126 + 40	LT	1
TRAPELO RD.	126 + 69	LT	1
TRAPELO RD.	127 + 71	RT	1

TOTAL 16 EA

SAY	16	EA
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776.543

**MAPLE - RED -'OCTOBER GLORY' 2.5-3 INCH
 CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
SCHOOL ST.	0 + 90	LT	1
SCHOOL ST.	1 + 45	LT	1
SCHOOL ST.	1 +	LT	1
SCHOOL ST.	1 + 80	LT	1
TEMPLETON PKW.	0 + 76	LT	1
TEMPLETON PKW.	1 + 4	LT	1
TEMPLETON PKW.	1 + 12	RT	1
TEMPLETON PKW.	1 + 32	LT	1
TEMPLETON PKW.	1 + 51	RT	1
TRAPELO RD.	116 + 50	RT	1
TRAPELO RD.	116 + 58	LT	1
TRAPELO RD.	117 + 74	RT	1
TRAPELO RD.	117 + 80	LT	1
TRAPELO RD.	118 + 7	RT	1
TRAPELO RD.	118 + 30	RT	1
TRAPELO RD.	118 + 61	RT	1
TRAPELO RD.	118 + 85	LT	1
TRAPELO RD.	125 + 1	RT	1
TRAPELO RD.	126 + 62	RT	1
TRAPELO RD.	127 + 13	LT	1
TRAPELO RD.	128 + 3	LT	1
TRAPELO RD.	128 + 94	RT	1
TRAPELO RD.	129 + 16	LT	1
TRAPELO RD.	129 + 93	RT	1
TRAPELO RD.	130 + 33	RT	1
TRAPELO RD.	130 + 52	LT	1
TRAPELO RD.	131 + 11	RT	1
TRAPELO RD.	133 + 5	LT	1
TRAPELO RD.	133 + 48	LT	1
TRAPELO RD.	134 + 10	LT	1
TRAPELO RD.	136 + 86	RT	1
TRAPELO RD.	137 + 52	RT	1
TOTAL			32

EA

SAY	32	EA
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777.036

**OAK - NORTHERN RED 2-2.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	21 + 24	LT	1	
TRAPELO RD.	22 + 19	LT	1	
TRAPELO RD.	22 + 51	LT	1	
TRAPELO RD.	22 + 81	LT	1	
TRAPELO RD.	23 + 13	LT	1	
TRAPELO RD.	23 + 45	LT	1	
TRAPELO RD.	99 + 65	RT	1	
TRAPELO RD.	99 + 86	RT	1	
		TOTAL	8	EA

SAY	8	EA
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777.142

**OAK - PIN GREEN PILLAR 3-3.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	75 + 27	LT	1
TRAPELO RD.	82 + 7	RT	1
TRAPELO RD.	82 + 51	RT	1
TRAPELO RD.	82 + 83	RT	1
TRAPELO RD.	137 + 87	RT	1
TRAPELO RD.	138 + 51	RT	1
TRAPELO RD.	138 + 78	RT	1
TRAPELO RD.	139 + 13	RT	1
TRAPELO RD.	139 + 44	RT	1
TRAPELO RD.	141 + 68	RT	1
TRAPELO RD.	143 + 67	LT	1
TRAPELO RD.	143 + 93	LT	1
TRAPELO RD.	144 + 18	LT	1
TRAPELO RD.	145 + 59	RT	1

TOTAL 14 EA

SAY	14	EA
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777.164

**OAK -PYRAMIDAL ENGLISH 2-2.5 INCH
 CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	45 + 48	LT	1
TRAPELO RD.	46 + 7	LT	1
TRAPELO RD.	46 + 40	LT	1
TRAPELO RD.	46 + 67	LT	1
TRAPELO RD.	47 + 40	LT	1
TRAPELO RD.	51 + 33	LT	1
TRAPELO RD.	53 + 61	RT	1
TRAPELO RD.	53 + 84	LT	1
TRAPELO RD.	53 + 84	RT	1
TRAPELO RD.	54 + 15	LT	1
TRAPELO RD.	54 + 46	LT	1
TRAPELO RD.	54 + 52	RT	1
TRAPELO RD.	54 + 70	RT	1
TRAPELO RD.	54 + 77	LT	1
TRAPELO RD.	55 + 8	LT	1
TRAPELO RD.	55 + 46	LT	1
TRAPELO RD.	56 + 86	LT	1
TRAPELO RD.	57 + 7	LT	1
TRAPELO RD.	59 + 56	RT	1
TRAPELO RD.	60 + 11	LT	1
TRAPELO RD.	60 + 24	RT	1
TRAPELO RD.	60 + 48	LT	1

TOTAL 22 EA

SAY	22	EA
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777.241

OAK - SCARLET 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	75 + 3	RT	1
TRAPELO RD.	76 + 42	LT	1
TRAPELO RD.	76 + 76	RT	1
TRAPELO RD.	77 + 12	LT	1
TRAPELO RD.	77 + 88	LT	1
TRAPELO RD.	78 + 48	LT	1
TRAPELO RD.	78 + 85	RT	1
TRAPELO RD.	78 + 91	LT	1
TRAPELO RD.	79 + 14	RT	1
TRAPELO RD.	79 + 55	LT	1
TRAPELO RD.	79 + 75	RT	1
TRAPELO RD.	80 + 10	LT	1
TRAPELO RD.	80 + 12	RT	1
TRAPELO RD.	80 + 41	RT	1
TRAPELO RD.	80 + 68	LT	1
TRAPELO RD.	81 + 43	LT	1
TRAPELO RD.	81 + 66	RT	1
TRAPELO RD.	81 + 83	LT	1
TRAPELO RD.	82 + 29	LT	1
TRAPELO RD.	82 + 94	LT	1
TRAPELO RD.	83 + 35	MED	1
TRAPELO RD.	83 + 62	MED	1
TRAPELO RD.	84 + 29	LT	1
TRAPELO RD.	137 + 93	LT	1
TRAPELO RD.	142 + 61	LT	1
TRAPELO RD.	142 + 91	RT	1
TRAPELO RD.	143 + 85	RT	1
TRAPELO RD.	144 + 62	RT	1
TRAPELO RD.	145 + 9	RT	1
TRAPELO RD.	145 + 17	LT	1
TRAPELO RD.	145 + 77	LT	1
TRAPELO RD.	146 + 28	RT	1
		TOTAL	32 EA

SAY	32	EA
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777.331

OAK - WHITE 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
MILL ST.	0 + 90	RT	1	
MILL ST.	1 + 18	RT	1	
MILL ST.	1 + 43	RT	1	
MILL ST.	1 + 68	RT	1	
TRAPELO RD.	19 + 34	LT	1	
		TOTAL	5	EA

SAY	5	EA
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777.542

**PLANETREE - LONDON 2-2.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>		<u>SIDE</u>	<u>QTY.</u>
CHURCH ST.	1	+ 21	RT	1
CHURCH ST.	1	+ 59	RT	1
CHURCH ST.	1	+ 94	RT	1
CHURCH ST.	2	+ 31	RT	1
CHURCH ST.	2	+ 67	RT	1
CHURCH ST.	3	+ 2	RT	1
TRAPELO RD.	31	+ 92	LT	1
TRAPELO RD.	32	+ 17	RT	1
TRAPELO RD.	33	+ 13		1
TRAPELO RD.	33	+ 27	RT	1
TRAPELO RD.	33	+ 57	RT	1

TOTAL 11 EA

SAY	11	EA
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778.412

**CRABAPPLE - 'ADIRONDACK' 1.5-2 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	42 + 84	LT	1	
TRAPELO RD.	43 + 1	LT	1	
TRAPELO RD.	89 + 15	RT	1	
TRAPELO RD.	89 + 26	RT	1	
TRAPELO RD.	113 + 0	LT	1	
		TOTAL	5	EA

SAY	5	EA
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781.152

GINKO- BILBOA 2-2.5 INCH CALIPER

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	61 + 69	RT	1
TRAPELO RD.	61 + 99	LT	1
TRAPELO RD.	62 + 91	LT	1
TRAPELO RD.	63 + 50	MED	1
TRAPELO RD.	63 + 57	RT	1
TRAPELO RD.	64 + 14	RT	1
TRAPELO RD.	64 + 55	RT	1
TRAPELO RD.	64 + 92	RT	1
TRAPELO RD.	65 + 18	RT	1
TRAPELO RD.	66 + 26	LT	1
TRAPELO RD.	67 + 34	LT	1
TRAPELO RD.	67 + 60	MED	1
TRAPELO RD.	67 + 65	LT	1
TRAPELO RD.	67 + 86	MED	1
TRAPELO RD.	68 + 14	MED	1
TRAPELO RD.	68 + 94		1
TRAPELO RD.	69 + 50		1
TRAPELO RD.	69 + 77		1
TRAPELO RD.	70 + 11		1
TRAPELO RD.	70 + 49		1
TRAPELO RD.	70 + 79		1
TRAPELO RD.	72 + 30	LT	1
TRAPELO RD.	72 + 85	LT	1
TRAPELO RD.	72 + 97	MED	1
TRAPELO RD.	73 + 32	LT	1
TRAPELO RD.			1
TOTAL			26 EA
SAY			26 EA

781.155

**GINKO- BILBOA 'FASTIGIATA' 2-2.5 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	62 + 19	RT	1
TRAPELO RD.	61 + 94	RT	1
TRAPELO RD.	62 + 53	RT	1
TRAPELO RD.	72 + 97	RT	1

TOTAL 4 EA

SAY	4	EA
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781.578

**LILAC TREE -JAPANESE 1.5-2 INCH
CALIPER**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD.	124 + 98	LT	1
TRAPELO RD.	125 + 41	LT	1
TRAPELO RD.	139 + 51	LT	1
TRAPELO RD.	140 + 32	RT	1
TRAPELO RD.	140 + 49	RT	1

TOTAL 5 EA

SAY	5	EA
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782.252

MOUNTAIN ASH - KOREAN- PYRAMIDAL
1.5-2 INCH CALIPER

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
CHURCH ST.	3 + 6	LT	1	
CHURCH ST.	3 + 38	LT	1	
CHURCH ST.	3 + 68	LT	1	
LEXINGTON ST.	0 + 79	RT	1	
		TOTAL	4	EA
			SAY	4 EA

782.423

PEAR - CALLERY - 'CHANTICLEER' 2-2.5
INCH CALIPER

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
N. COMMON ST.	2 + 4	RT	1	
N. COMMON ST.	2 + 39	LT	1	
N. COMMON ST.	2 + 53	RT	1	
N. COMMON ST.	2 + 65	RT	1	
N. COMMON ST.	2 + 84	LT	1	
N. COMMON ST.	3 + 25	LT	1	
S. COMMON ST.	0 + 74	RT	1	
S. COMMON ST.	1 + 12	RT	1	
TRAPELO RD.	2 + 16	RT	1	
TRAPELO RD.	84 + 96	LT	1	
TRAPELO RD.	85 + 25	LT	1	
TRAPELO RD.	85 + 57	LT	1	
TRAPELO RD.	85 + 88	LT	1	
TRAPELO RD.	90 + 47	RT	1	
		TOTAL	14	EA
			SAY	14 EA

785.643

INKBERRY-DENSA 2-3 FEET

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	62 + 0	RT-12	12	
TRAPELO RD.	62 + 50	RT-4	4	
TRAPELO RD.	66 + 65	4, LT	3	
TRAPELO RD.	87 + 60	9, LT	9	
TRAPELO RD.	99 + 91	13, RT	13	
		TOTAL	41	EA
		SAY	41	EA

786.461

JUNIPER - SARGENT'S 15-18 INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	87 + 24	6, RT	6	
TRAPELO RD.	87 + 60	2, LT	2	
		TOTAL	8	EA
			SAY	8 EA

786.471

JUNIPER - 'SEAGREEN' 18-24 INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	86 + 80	MED	8	
		TOTAL	8	EA
		SAY	8	EA

787.245

YEW - HICK'S 30-36 INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	122 + 21	8, RT	8	
		TOTAL	8	EA
			SAY	8 EA

787.262

YEW - SPREADING ENGLISH 15-18 INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	86 + 60	LT	9	
TRAPELO RD.	88 + 17	LT	4	
		TOTAL	13	EA
			SAY	13 EA

791.251

FORSYTHIA – ‘ARNOLDS DWARF’ 15-24
INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
ARLINGTON ST.	1 + 53	RT	1	
		TOTAL	1	EA
			SAY	1 EA

793.331

PRIVET - REGAL 18-24 INCH

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
ARLINGTON ST.	1 + 50	RT	3	
ARLINGTON ST.	2 + 38	RT	1	
ARLINGTON ST.	2 + 80	RT	4	
TRAPELO RD.	145 + 89	LT	1	
		TOTAL	9	EA
		SAY	9	EA

796.011

BEARBERRY 2 GALLON

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	88 + 17	LT	9	
		TOTAL	9	EA
		SAY	9	EA

796.432

DWARF FOUNTAIN GRASS - 'HAMELN' 1
GALLON

EA

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>QTY.</u>	
TRAPELO RD.	87 + 24	RT	20	
TRAPELO RD.	87 + 60	LT	12	
TRAPELO RD.	87 + 60	LT	16	
TRAPELO RD.	88 + 17	LT	14	
		TOTAL	62	EA

SAY	62	EA
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804.2

2 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL)

FT

<u>LOCATION</u>	<u>QTY.</u>
1	0
2	0
3	0
4	0
5	45.93
6	0
7	0
8	0
9	87.94
10	0
11	0
12	0
13	0
TOTAL	133.87

FT

SAY	140	FT
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804.30

3 INCH ELECTRICAL CONDUIT TYPE NM-PLASTIC (UL)

LF

LOCATION	UNDER ROAD	UNDER WALK	TOTAL
1	182.46	287.98	470.44
2	67	73.41	140.35
3	21	222.74	243.25
4	187	291.62	478.95
5	8	126.35	134.65
6	137	215.21	351.81
7	153	157.9	311.09
8	119	187.15	306.35
9	212	401.54	613.47
10	20	114.55	135.03
11	58	105.94	164.13
12	77	261.69	338.62
13	237	302.17	539.43
INTER	10	1785.6	1795.32
TOTAL =	1489		
TOTAL	=	4534	
TOTAL =		=	6022.89

TOTAL 6022.89 EA

SAY	6,023	EA
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804.32

3 INCH ELECTRICAL CONDUIT TYPE NM (DOUBLE)-PLASTIC (UL)

LF

<u>LOCATION</u>	<u>UNDER ROAD</u>	<u>UNDER WALK</u>	<u>TOTAL</u>
1	37	95.44	133
2	0	10.97	11
3	91	40.9	132
4	65	84.05	149
5	51	21.12	72
6	0	22.32	22
7	0	0	0
8	46	3.06	49
9	0	0	0
10	0	0	0
11	34	8.71	43
12	60	31.3	91
13	0	3.63	4
INTER	0	0	0
TOTAL =	384		
TOTAL	=	322	
TOTAL		=	705.77

TOTAL 705.77 EA

SAY	706	EA
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804.33

3 INCH ELECTRICAL CONDUIT TYPE NM (TRIPLE)-PLASTIC (UL)

LF

LOCATION	UNDER ROAD	UNDER WALK	TOTAL
1	0	0	0
2	0	44.69	45
3	40	0	40
4	0	8.4	8
5	0	0	0
6	0	24.93	25
7	0	0	0
8			0
9	0	0	0
10	0	19.46	19
11	0	0	0
12	0	0	0
13	0	0	0
INTER	0	0	0
TOTAL =	40		
TOTAL	=	97	
TOTAL		=	137.6

TOTAL 137.6 EA

SAY	138	EA
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811.31

PULL BOX 12 X 12 INCHES - SD2.031

EA

Quantity	Unit	Item
6	EA	LOCATION 1
1	EA	LOCATION 2
5	EA	LOCATION 3
5	EA	LOCATION 4
2	EA	LOCATION 5
1	EA	LOCATION 6
4	EA	LOCATION 7
2	EA	LOCATION 8
1	EA	LOCATION 9
2	EA	LOCATION 10
2	EA	LOCATION 11
5	EA	LOCATION 12
4	EA	LOCATION 13

SAY	40	EA
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811.32

PULL BOX 12 X 24 INCHES

EA

Quantity	Unit	Item
1	EA	LOCATION 1
0	EA	LOCATION 2
0	EA	LOCATION 3
1	EA	LOCATION 4
2	EA	LOCATION 5
0	EA	LOCATION 6
1	EA	LOCATION 7
2	EA	LOCATION 8
4	EA	LOCATION 9
0	EA	LOCATION 10
0	EA	LOCATION 11
1	EA	LOCATION 12
1	EA	LOCATION 13

SAY	13	EA
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811.36

ELECTRIC MANHOLE ADJUSTED

EA

STREET	STATION	SIDE	QTY.
TRAPELO RD	49+18.00	Rt	1
TRAPELO RD	52+53.30	Rt	1
TRAPELO RD	56+05.50	Rt	1
TRAPELO RD	59+44.60	Rt	1
TRAPELO RD	82+64.90	Rt	50
TRAPELO RD	83+49.50	Rt	1
TRAPELO RD	86+75.50	Rt	1
TRAPELO RD	89+09.60	Rt	1
TRAPELO RD	89+82.70	Rt	1
TRAPELO RD	91+63.00	Rt	1
TRAPELO RD	94+00.00	Rt	1
TRAPELO RD	98+31.00	Rt	1
BELMONT RD	101+25.00	Rt	1
BELMONT RD	103+71.70	Rt	1
BELMONT RD	106+59.50	Rt	1

SUBTOTAL 64 EA

FOR ESTIMATING PURPOSES 0 EA

TOTAL 64 EA

SAY	64	EA
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813.79

INTERCONNECT CABLE SYSTEM

LS

Quantity	Unit	Station	Unit Cost	Total Cost
3464	LF		\$ 5.50	\$ 19,052.00
	LF			
	LF			
	LF			

JOBWIDE LUMP SUM

COST \$20,000

SAY	1	LS
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816.01

**TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 1**

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost
POSTS					CONTROLLERS				
9	EA	Standard Type 8 FT	\$600	\$5,400	1	EA	Type 8DW	\$17,500	\$17,500
1	EA	Standard Type 10 FT	\$650	\$650		EA	Master Controller	\$10,000	
1	EA	Mast Arm 20 Ft Type	\$3,850	\$3,850		EA	Type 8W	\$8,250	
1	EA	Mast Arm 25 Ft Type	\$4,000	\$4,000		EA	Fixed Time (Elec Mech)	\$4,250	
1	EA	Mast Arm 30 Ft Type	\$7,000	\$7,000		EA	Fixed Time (Solid State)	\$5,250	
1	EA	Mast Arm 35 Ft Type	\$8,000	\$8,000		EA	Time Based Control Unit	\$5,000	
1	EA	Mast Arm 40 Ft Type	\$8,000	\$8,000	1	EA	Testing & Grounding	\$5,000	\$5,000
	EA	Strain Pole	\$7,500		1	EA	Fire Pre-emptor	\$4,000	\$4,000
	EA	Mast Arm 35 Ft - Type B	\$9,000		1	EA	OPTICOM Phase Selector	\$4,000	\$4,000
						EA	Coordination Units	\$2,000	
FOUNDATIONS					DETECTORS				
10	EA	Signal Pole	\$2,250	\$22,500	5	EA	Video Det. Camera & Mnt'g Ass.	\$4,000	\$20,000
4	EA	Mast Arm	\$6,000	\$24,000	3	EA	Video Processor (2 Channel)	\$4,500	\$13,500
	EA	Strain Pole	\$3,000			EA	Magnetic Detector Relay		
1	EA	"M" Box	\$1,500	\$1,500		EA	Audible Ped. Signal		
MISC. EQUIPMENT					PULL BOXES				
1	LS	R & S Existing	\$3,000	\$3,000		EA	P.B.- 8"x 23"	\$400	
	EA	Time Clock	\$1,000			EA	P.B. - 12"x 12"	\$350	
	EA	1 Circuit Flasher Mech	\$125		10	EA	EHH 24"x 13" x 36"	\$350	
	EA	2 Circuit Flasher Mech	\$175			EA	EHH 24"x 24" x 36"	\$750	
6	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$10,800		EA	P.B. - 12" x 24"	\$500	
1	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000	\$2,000	1	EA	Card Rack for Pre-emption system	\$600	\$600
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000		3	EA	Optical Detector - Single Direction	\$1,500	\$4,500
	EA	3 Way, 3 Lens w/ Backplate (12")	\$2,200		1	EA	Strobe Light	\$500	\$500
1	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200	\$2,200		EA	Amplifier, Dual Channel	\$650	
1	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200	\$2,200	CABLE				
	EA	Fluted Jacket (8' Post)	\$1,500			LF	# 12 AWG	\$2	\$1,000
	EA	Fluted Jacket (10' Post)	\$1,800		500	LF	# 8 AWG	\$2	\$1,000
	EA	Fluted Jacket (Mast Arm)	\$7,000			LF	Interconnect Cable System	\$11	
10	EA	Pedestrian LED (count down)	\$1,500	\$15,000	OTHER				
	EA	Pedestrian Incandescent	\$750			LF	Wire Loop Conn Wire	\$11	
	EA	Pedestrian Fiber-Optic (Symb.)	\$900		2	EA	Temp. Traffic Signal	\$300	\$600
CONDUIT					SERVICE CONNECTION				
	LF	3" Type NM - Single	\$17		1	LS	Equip & Cable Underground	\$4,000	\$4,000
	LF	3" Type NM - Double	\$25		0	LS	Equip & Cable Overhead	\$1,750	
	LF	1" Type NM - Single	\$40		1	LS	Utility Co. Charges	\$500	\$500
Sub-Total:				\$112,700	Sub-Total:				\$88,100
					TOTAL				\$200,800

SAY \$201,000

JOBWIDE

COST \$205,000

SAY	1	LS
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816.06

**TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 6**

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost	
POSTS					CONTROLLERS					
2	EA	Standard Type 8 FT	\$600	\$1,200	1	EA	Type 8DW	\$17,500	\$17,500	
	EA	Standard Type 10 FT	\$650			EA	Master Controller	\$10,000		
	EA	Mast Arm 20 Ft Type	\$3,850			EA	Type 8W	\$8,250		
	EA	Mast Arm 25 Ft Type	\$4,000			EA	Fixed Time (Elec Mech)	\$4,250		
	EA	Mast Arm 30 Ft Type	\$7,000			EA	Fixed Time (Solid State)	\$5,250		
	EA	Mast Arm 35 Ft Type	\$8,000			EA	Time Based Control Unit	\$5,000		
	EA	Mast Arm 40 Ft Type	\$8,000		1	EA	Testing & Grounding	\$5,000	\$5,000	
	EA	Strain Pole	\$7,500			EA	Fire Pre-emptor	\$4,000		
1	EA	Mast Arm 25 Ft - Type B	\$5,000	\$5,000		EA	OPTICOM Phase Selector	\$4,000		
1	EA	Mast Arm 30 Ft - Type B	\$8,000	\$8,000		EA	Coordination Units	\$2,000		
FOUNDATIONS					DETECTORS					
2	EA	Signal Pole	\$2,250	\$4,500		EA	Video Det. Camera & Mnt'g Ass.	\$4,000		
2	EA	Mast Arm	\$6,000	\$12,000		EA	Video Processor (2 Channel)	\$4,500		
	EA	Strain Pole	\$3,000			EA	Magnetic Detector Relay	\$0		
1	EA	"M" Box	\$1,500	\$1,500		EA	Audible Ped. Signal	\$0		
MISC. EQUIPMENT						EA	Ped. Push Button w/Locator	\$1,200	\$2,400	
1	LS	R & S Existing	\$3,000	\$3,000	2	EA	Video Cable	\$4		
	EA	Time Clock	\$1,000			LF	Loop Osc & Relay Channel	\$0		
	EA	1 Circuit Flasher Mech	\$125			EA	Card Rack for Pre-emption system	\$600		
	EA	2 Circuit Flasher Mech	\$175			EA	Optical Detector - Single Direction	\$1,500		
4	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$7,200		EA	Strobe Light	\$500		
	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000			EA	Amplifier, Dual Channel	\$650		
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000		PULL BOXES					
	EA	3 Way, 3 Lens w/ Backplate (12")	\$2,200			EA	P.B. - 8"x 23"	\$400		
	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200			EA	P.B. - 12"x 12"	\$350		
	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200			EA	EHH 24"x 13" x 36"	\$350		
	EA	Fluted Jacket (8' Post)	\$1,500			EA	EHH 24"x 24" x 36"	\$750		
	EA	Fluted Jacket (10' Post)	\$1,800			EA	P.B. - 12" x 24"	\$500		
2	EA	Fluted Jacket (Mast Arm)	\$7,000		CABLE					
	EA	Pedestrian LED (count down)	\$1,500	\$3,000		LF	# 12 AWG	\$2	\$1,000	
	EA	Pedestrian Incandescent	\$750			LF	# 8 AWG	\$2	\$1,000	
	EA	Pedestrian Fiber-Optic (Symb.)	\$900			LF	Interconnect Cable System	\$11		
CONDUIT					OTHER					
	LF	3" Type NM - Single	\$17			LF	Wire Loop Conn Wire	\$11		
	LF	3" Type NM - Double	\$25		0	EA	Temp. Traffic Signal	\$300		
	LF	1" Type NM - Single	\$40		SERVICE CONNECTION					
						LS	Equip & Cable Underground	\$4,000	\$4,000	
						LS	Equip & Cable Overhead	\$1,750		
					1	LS	Utility Co. Charges	\$500	\$500	
					Sub-Total:					
				\$45,400					Sub-Total	\$31,400
									TOTAL	\$76,800

SAY \$77,000

JOBWIC COST \$80,000

SAY	1	LS
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816.07

**TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 7**

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost
POSTS					CONTROLLERS				
7	EA	Standard Type 8 FT	\$600	\$4,200	1	EA	Type 8DW	\$17,500	\$17,500
	EA	Standard Type 10 FT	\$650			EA	Master Controller	\$10,000	
	EA	Mast Arm 20 Ft Type	\$3,850			EA	Type 8W	\$8,250	
	EA	Mast Arm 25 Ft Type	\$4,000			EA	Fixed Time (Elec Mech)	\$4,250	
	EA	Mast Arm 30 Ft Type	\$7,000			EA	Fixed Time (Solid State)	\$5,250	
	EA	Mast Arm 35 Ft Type	\$8,000			EA	Time Based Control Unit	\$5,000	
	EA	Mast Arm 40 Ft Type	\$8,000		1	EA	Testing & Grounding	\$5,000	\$5,000
	EA	Strain Pole	\$7,500		1	EA	Fire Pre-emptor	\$4,000	\$4,000
2	EA	Mast Arm 30 Ft - Type B	\$8,000	\$16,000	1	EA	OPTICOM Phase Selector	\$4,000	\$4,000
						EA	Coordination Units	\$2,000	
FOUNDATIONS					DETECTORS				
7	EA	Signal Pole	\$2,250	\$15,750	4	EA	Video Det. Camera & Mnt'g Ass.	\$4,000	\$16,000
2	EA	Mast Arm	\$6,000	\$12,000	2	EA	Video Processor (2 Channel)	\$4,500	\$9,000
	EA	Strain Pole	\$3,000			EA	Magnetic Detector Relay	\$0	
1	EA	"M" Box	\$1,500	\$1,500		EA	Audible Ped. Signal	\$0	
MISC. EQUIPMENT					PULL BOXES				
1	LS	R & S Existing	\$3,000	\$3,000	8	EA	Ped. Push Button w/Locator	\$1,200	\$9,600
	EA	Time Clock	\$1,000			LF	Video Cable	\$4	
	EA	1 Circuit Flasher Mech	\$125			EA	Loop Osc & Relay Channel	\$0	
	EA	2 Circuit Flasher Mech	\$175		1	EA	Card Rack for Pre-emption system	\$600	\$600
4	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$7,200	4	EA	Optical Detector - Single Direction	\$1,500	\$6,000
2	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000	\$4,000	1	EA	Strobe Light	\$500	\$500
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000			EA	Amplifier, Dual Channel	\$650	
	EA	3 Way, 3 Lens w/ Backplate (12")	\$2,200		OTHER				
	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200		8	EA	Pedestrian LED (count down)	\$1,500	\$12,000
	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200			EA	Pedestrian Incandescent	\$750	
	EA	Fluted Jacket (8' Post)	\$1,500			EA	Pedestrian Fiber-Optic (Symb.)	\$900	
	EA	Fluted Jacket (10' Post)	\$1,800		CONDUIT				
	EA	Fluted Jacket (Mast Arm)	\$7,000			LF	3" Type NM - Single	\$17	
	EA	Pedestrian LED (count down)	\$1,500	\$12,000		LF	3" Type NM - Double	\$25	
	EA	Pedestrian Incandescent	\$750			LF	1" Type NM - Single	\$40	
	EA	Pedestrian Fiber-Optic (Symb.)	\$900		CABLE				
CONDUIT						LF	# 12 AWG	\$2	\$1,000
	LF	3" Type NM - Single	\$17			LF	# 8 AWG	\$2	\$1,000
	LF	3" Type NM - Double	\$25			LF	Interconnect Cable System	\$11	
	LF	1" Type NM - Single	\$40		SERVICE CONNECTION				
OTHER						LS	Equip & Cable Underground	\$4,000	\$4,000
	LF	Wire Loop Conn Wire	\$11			LS	Equip & Cable Overhead	\$1,750	
0	EA	Temp. Traffic Signal	\$300		1	LS	Utility Co. Charges	\$500	\$500
Sub-Total:					Sub-Total				
				\$75,650					\$78,700
					TOTAL				
									\$154,350

SAY \$155,000

JOBWIDE COST \$155,000

SAY	1	LS
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816.09

**TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 9**

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost
POSTS					CONTROLLERS				
7	EA	Standard Type 8 FT	\$600	\$4,200	1	EA	Type 8DW	\$17,500	\$17,500
2	EA	Standard Type 10 FT	\$650	\$1,300		EA	Master Controller	\$10,000	
	EA	Mast Arm 20 Ft Type	\$3,850			EA	Type 8W	\$8,250	
	EA	Mast Arm 25 Ft Type	\$4,000			EA	Fixed Time (Elec Mech)	\$4,250	
	EA	Mast Arm 30 Ft Type	\$7,000			EA	Fixed Time (Solid State)	\$5,250	
	EA	Mast Arm 35 Ft Type	\$8,000			EA	Time Based Control Unit	\$5,000	
	EA	Mast Arm 40 Ft Type	\$8,000		1	EA	Testing & Grounding	\$5,000	\$5,000
	EA	Strain Pole	\$7,500		1	EA	Fire Pre-emptor	\$4,000	\$4,000
2	EA	Mast Arm 35 Ft - Type B	\$9,000	\$18,000	1	EA	OPTICOM Phase Selector	\$4,000	\$4,000
						EA	Coordination Units	\$2,000	
FOUNDATIONS					DETECTORS				
9	EA	Signal Pole	\$2,250	\$20,250	4	EA	Video Det. Camera & Mnt'g Ass.	\$4,000	\$16,000
2	EA	Mast Arm	\$6,000	\$12,000	2	EA	Video Processor (2 Channel)	\$4,500	\$9,000
	EA	Strain Pole	\$3,000			EA	Magnetic Detector Relay	\$0	
1	EA	"M" Box	\$1,500	\$1,500		EA	Audible Ped. Signal	\$0	
MISC. EQUIPMENT					8	EA	Ped. Push Button w/Locator	\$1,200	\$9,600
1	LS	R & S Existing	\$3,000	\$3,000		LF	Video Cable	\$4	
	EA	Time Clock	\$1,000			EA	Loop Osc & Relay Channel	\$0	
	EA	1 Circuit Flasher Mech	\$125		1	EA	Card Rack for Pre-emption system	\$600	\$600
	EA	2 Circuit Flasher Mech	\$175		4	EA	Optical Detector - Single Direction	\$1,500	\$6,000
2	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$3,600	1	EA	Strobe Light	\$500	\$500
2	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000	\$4,000		EA	Amplifier, Dual Channel	\$650	
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000		PULL BOXES				
	EA	3 Way, 3 Lens w/ Backplate (12")	\$2,200			EA	P.B. - 8"x 23"	\$400	
2	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200	\$4,400		EA	P.B. - 12"x 12"	\$350	
	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200			EA	EHH 24"x 13" x 36"	\$350	
	EA	Fluted Jacket (8' Post)	\$1,500			EA	EHH 24"x 24" x 36"	\$750	
	EA	Fluted Jacket (10' Post)	\$1,800			EA	P.B. - 12" x 24"	\$500	
	EA	Fluted Jacket (Mast Arm)	\$7,000		CABLE				
8	EA	Pedestrian LED (count down)	\$1,500	\$12,000		LF	# 12 AWG	\$2	\$1,000
	EA	Pedestrian Incandescent	\$750			LF	# 8 AWG	\$2	\$1,000
	EA	Pedestrian Fiber-Optic (Symb.)	\$900			LF	Interconnect Cable System	\$11	
CONDUIT					SERVICE CONNECTION				
	LF	3" Type NM - Single	\$17			LS	Equip & Cable Underground	\$4,000	\$4,000
	LF	3" Type NM - Double	\$25			LS	Equip & Cable Overhead	\$1,750	
	LF	1" Type NM - Single	\$40		1	LS	Utility Co. Charges	\$500	\$500
OTHER					Sub-Total				
	LF	Wire Loop Conn Wire	\$11						\$78,700
3	EA	Temp. Traffic Signal	\$300	\$900					\$163,850
Sub-Total					TOTAL				
				\$85,150					\$163,850

SAY \$164,000

JOBWID COST \$165,000

SAY	1	LS
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816.12

TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 12

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost
POSTS									
5	EA	Standard Type 8 FT	\$600	\$3,000	1	EA	Type 8DW	\$17,500	\$17,500
4	EA	Standard Type 10 FT	\$650	\$2,600		EA	Master Controller	\$10,000	
	EA	Mast Arm 20 Ft Type	\$3,850			EA	Type 8W	\$8,250	
	EA	Mast Arm 25 Ft Type	\$4,000			EA	Fixed Time (Elec Mech)	\$4,250	
	EA	Mast Arm 30 Ft Type	\$7,000			EA	Fixed Time (Solid State)	\$5,250	
	EA	Mast Arm 35 Ft Type	\$8,000			EA	Time Based Control Unit	\$5,000	
	EA	Mast Arm 40 Ft Type	\$8,000		1	EA	Testing & Grounding	\$5,000	\$5,000
	EA	Strain Pole	\$7,500		1	EA	Fire Pre-emptor	\$4,000	\$4,000
2	EA	Mast Arm 30 Ft - Type B	\$8,000	\$16,000	1	EA	OPTICOM Phase Selector	\$4,000	\$4,000
	EA	Mast Arm 35 Ft - Type B	\$9,000			EA	Coordination Units	\$2,000	
FOUNDATIONS									
9	EA	Signal Pole	\$2,250	\$20,250					
2	EA	Mast Arm	\$6,000	\$12,000					
	EA	Strain Pole	\$3,000						
1	EA	"M" Box	\$1,500	\$1,500					
DETECTORS									
					4	EA	Video Det. Camera & Mntg Ass.	\$4,000	\$16,000
					2	EA	Video Processor (2 Channel)	\$4,500	\$9,000
						EA	Magnetic Detector Relay	\$0	
						EA	Audible Ped. Signal	\$0	
	LS	R & S Existing	\$3,000						
	EA	Time Clock	\$1,000		8	EA	Ped. Push Button w/Locator	\$1,200	\$9,600
	EA	1 Circuit Flasher Mech	\$125			LF	Video Cable	\$4	
	EA	2 Circuit Flasher Mech	\$175			EA	Loop Osc & Relay Channel	\$0	
7	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$12,600	1	EA	Card Rack for Pre-emption system	\$600	\$600
2	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000	\$4,000	4	EA	Optical Detector - Single Direction	\$1,500	\$6,000
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000		1	EA	Strobe Light	\$500	\$500
	EA	3 Way, 3 Lens w/ Backplate (12")	\$2,200			EA	Amplifier, Dual Channel	\$650	
	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200						
	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200						
	EA	Fluted Jacket (8' Post)	\$1,500						
	EA	Fluted Jacket (10' Post)	\$1,800						
	EA	Fluted Jacket (Mast Arm)	\$7,000						
8	EA	Pedestrian LED (count down)	\$1,500	\$12,000		EA	PULL BOXES		
	EA	Pedestrian Incandescent	\$750			EA	P.B. - 8"x 23"	\$400	
	EA	Pedestrian Fiber-Optic (Symb.)	\$900			EA	P.B. - 12"x 12"	\$350	
						EA	EHH 24"x 13" x 36"	\$350	
						EA	EHH 24"x 24" x 36"	\$750	
						EA	P.B. - 12" x 24"	\$500	
CONDUIT									
	LF	3" Type NM - Single	\$17				CABLE		
	LF	3" Type NM - Double	\$25		500	LF	# 12 AWG	\$2	\$1,000
	LF	1" Type NM - Single	\$40		500	LF	# 8 AWG	\$2	\$1,000
						LF	Interconnect Cable System	\$11	
OTHER									
	LF	Wire Loop Conn Wire	\$11				SERVICE CONNECTION		
3	EA	Temp. Traffic Signal	\$300	\$900	1	LS	Equip & Cable Underground	\$4,000	\$4,000
					0	LS	Equip & Cable Overhead	\$1,750	
					1	LS	Utility Co. Charges	\$500	\$500
				Sub-Total:	\$84,850				
								Sub-Total	\$78,700
								TOTAL	\$163,550

SAY \$164,000

JOBWID COST \$165,000

SAY	1	LS
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816.13

**TRAFFIC SIGNAL RECONSTRUCTION
LOCATION NO. 13**

LS

Quantity	Unit	Item	Unit Cost	Total Cost	Quantity	Unit	Item	Unit Cost	Total Cost
POSTS					CONTROLLERS				
9	EA	Standard Type 8 FT	\$600	\$5,400	1	EA	Type 8DW	\$17,500	\$17,500
	EA	Standard Type 10 FT	\$650			EA	Master Controller	\$10,000	
	EA	Mast Arm 20 Ft Type	\$3,850			EA	Type 8W	\$8,250	
	EA	Mast Arm 25 Ft Type	\$4,000			EA	Fixed Time (Elec Mech)	\$4,250	
	EA	Mast Arm 30 Ft Type	\$7,000			EA	Fixed Time (Solid State)	\$5,250	
	EA	Mast Arm 35 Ft Type	\$8,000			EA	Time Based Control Unit	\$5,000	
	EA	Mast Arm 40 Ft Type	\$8,000		1	EA	Testing & Grounding	\$5,000	\$5,000
	EA	Strain Pole	\$7,500		1	EA	Fire Pre-emptor	\$4,000	\$4,000
1	EA	Mast Arm 30 Ft - Type B	\$8,000	\$8,000	1	EA	OPTICOM Phase Selector	\$4,000	\$4,000
1	EA	Mast Arm 35 Ft - Type B	\$9,000	\$9,000		EA	Coordination Units	\$2,000	
FOUNDATIONS					DETECTORS				
9	EA	Signal Pole	\$2,250	\$20,250	4	EA	Video Det. Camera & Mnt'g Ass.	\$4,000	\$16,000
2	EA	Mast Arm	\$6,000	\$12,000	2	EA	Video Processor (2 Channel)	\$4,500	\$9,000
	EA	Strain Pole	\$3,000			EA	Magnetic Detector Relay	\$0	
1	EA	"M" Box	\$1,500	\$1,500		EA	Audible Ped. Signal	\$0	
MISC. EQUIPMENT					PULL BOXES				
LS		R & S Existing	\$3,000			EA	P.B.- 8"x 23"	\$400	
EA		Time Clock	\$1,000			EA	P.B. - 12"x 12"	\$350	
EA		1 Circuit Flasher Mech	\$125			EA	EHH 24"x 13" x 36"	\$350	
EA		2 Circuit Flasher Mech	\$175			EA	EHH 24"x 24" x 36"	\$750	
2	EA	1 Way, 3 Lens w/Backplate (12")	\$1,800	\$3,600		EA	P.B. - 12" x 24"	\$500	
3	EA	2 Way, 3 Lens w/Backplate (12")	\$2,000	\$6,000	8	EA	Ped. Push Button w/Locator	\$1,200	\$9,600
	EA	1 Way, 4 Lens w/Backplate (12")	\$2,000			LF	Video Cable	\$4	
	EA	3 Way, 3 Lens w/Backplate (12")	\$2,200			EA	Loop Osc & Relay Channel	\$0	
	EA	2 way, 3/5 Lens w/Backplate (12")	\$2,200		1	EA	Card Rack for Pre-emption system	\$600	\$600
	EA	1 Way, 5 Lens w/Backplate (12")	\$2,200		4	EA	Optical Detector - Single Direction	\$1,500	\$6,000
	EA	Fluted Jacket (8' Post)	\$1,500			EA	Strobe Light	\$500	\$500
	EA	Fluted Jacket (10' Post)	\$1,800			EA	Amplifier, Dual Channel	\$650	
	EA	Fluted Jacket (Mast Arm)	\$7,000		CONDUIT				
8	EA	Pedestrian LED (count down)	\$1,500	\$12,000	LF		3" Type NM - Single	\$17	
	EA	Pedestrian Incandescent	\$750		LF		3" Type NM - Double	\$25	
	EA	Pedestrian Fiber-Optic (Symb.)	\$900		LF		1" Type NM - Single	\$40	
OTHER					CABLE				
LF		Wire Loop Conn Wire	\$11			LF	# 12 AWG	\$2	\$1,000
0	EA	Temp. Traffic Signal	\$300			LF	# 8 AWG	\$2	\$1,000
						LF	Interconnect Cable System	\$11	
SERVICE CONNECTION					OTHER				
					1	LS	Equip & Cable Underground	\$4,000	\$4,000
					0	LS	Equip & Cable Overhead	\$1,750	
					1	LS	Utility Co. Charges	\$500	\$500
					Sub-Total: \$77,750				
					Sub-Total \$78,700				
					TOTAL \$156,450				

SAY \$157,000

JOBWID

COST \$160,000

SAY	1	LS
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823.75

MBTA CATENARY POLE REMOVED AND STACKED

EA

<u>STREET</u>	<u>STA.</u>	<u>OFFSET</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELLO RD	37+00.09	31.3'	RT	1
TRAPELLO RD	37+87.40	42.0'	RT	1
TRAPELLO RD	41+11.95	33.8'	RT	1
TRAPELLO RD	71+12.76	30.0'	RT	1
TRAPELLO RD	72+10.62	29.8'	RT	1
TRAPELLO RD	84+52.60	40.0'	RT	1
TRAPELLO RD	98+89.67	30.9'	RT	1
BELMONT ST	120+12.72	25.6'	RT	1
BELMONT ST	121+51.97	25.5'	RT	1
BELMONT ST	127+37.36	25.0'	RT	1
BELMONT ST	131+35.89	25.0'	RT	1
BELMONT ST	135+14.62	29.1'	RT	1
CHURCH	2+85.66	28.6'	RT	1
CHURCH	3+18.38	14.2'	RT	1

TOTAL 14 EA

SAY	14	EA
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823.76

MBTA CATENARY POLE

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELLO RD	36+97.72	35.0' RT	1
TRAPELLO RD	37+86.14	47.7' RT	1
TRAPELLO RD	41+15.12	30.3' RT	1
TRAPELLO RD	71+09.46	36.0' RT	1
TRAPELLO RD	72+07.71	36.9' RT	1
TRAPELLO RD	84+72.62	30.5' RT	1
TRAPELLO RD	98+81.34	35.6' RT	1
BELMONT ST	120+14.21	38.0' RT	1
BELMONT ST	121+46.05	30.6' RT	1
BELMONT ST	127+33.95	26.3' RT	1
BELMONT ST	131+40.04	26.3' RT	1
BELMONT ST	135+10.75	33.1' RT	1
CHURCH	2+81.49	28.4' RT	1
CHURCH	3+21.22	28.3' RT	1

TOTAL 14 EA

SAY	14	EA
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823.77

MBTA FOUNDATION ABANDONED

EA

<u>STREET</u>	<u>QTY.</u>
FROM ITEM 823.75	14
CONTINGENCY	50

TOTAL 64 EA

SAY	65	EA
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823.78

MBTA POLE PROTECTION

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO ROAD	49+01.00	Rt	1
TRAPELO ROAD	59+68.20	Rt	1
TRAPELO ROAD	95+10.80	Rt	1
TRAPELO ROAD	98+19.60	Rt	1
BELMONT ROAD	10679.5	Rt	1

TOTAL 5 EA

SAY	5	EA
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823.79

MBTA FOUNDATION REMOVED

EA

STREET
CONTINGENCY

QTY.
10

TOTAL 10 EA

SAY	10	EA
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826.70

ELECTRIC SERVICE RISER RELOCATION

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD	21+20.92	40.4' LT	1
TRAPELO RD	62+73.7	30.6' RT	1

TOTAL 2 EA

SAY	2	EA
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826.70

ELECTRIC SPLICE BOX REPLACEMENT

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
TRAPELO RD	21+50	LT	1
TOTAL			1 EA
SAY			1 EA

827.21

**24 INCH WARNING CLUSTER (H1-2) - ALUMINUM
PANEL (TYPE A)**

EA

FROM SIGN SUMMARY SHEET (POST INCLUDED IN COST)

TOTAL 4 EA

SAY	4	EA
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831

ROADSIDE GUIDE SIGN (D6/D8) - ALUM. PANEL
(TYPE A)

SF

FROM SIGN SUMMARY SHEET

<u>DESIGNATION</u>	<u>UNIT AREA</u>	<u>NUMBER</u>	<u>(SF)</u> <u>AREA</u>
D4-1L	5.00	2	10.00
D4-1R	5.00	1	5.00
D4-1SL	5.00	1	5.00
D4-1SR	5.00	1	5.00
D4-1V	5.00	1	5.00
D6-1	25.00	1	25.00
D8-1	10.00	1	10.00
D6-3	25.00	1	25.00
D8-3a	10.00	1	10.00
D8-3b	17.50	1	17.50

TOTAL 117.50 SF

SAY	118	SF
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832

**WARNING-REGULATORY AND ROUTE
 MARKER - ALUM. PANEL (TYPE A)**

SF

FROM SIGN SUMMARY SHEET

DESIGNATION	(SF) AREA
M1-5 (60)	31.25
M3-2	2.00
M3-4	8.00
M5-2R	2.18
M6-2R	2.18
R1-1	243.80
R1-2	22.50
R2-1 (25)	10.00
R3-1	16.00
R3-2	4.00
R3-5L	22.50
R3-5R	7.50
R3-7L	100.00
R3-7R	31.25
R3-8	15.00
R3-8C	7.50
R3-26	5.00
R4-4	7.50
R4-7	48.00
R5-1	50.00
R5-1A	3.75
R6-1	15.00
R3-8D	7.50
R7-1	4.50
R7-1L	9.00
R7-1R	15.00
R7-1D	37.50
R7-2A	1.50
R7-2AL	1.50
R7-2AR	1.50
R7-2D	1.50
R7-2L	1.50
R7-2R	1.50
R7-5A	37.50
R7-5AL	12.00
R7-5AR	7.50
R7-5BL	1.50
R7-5C	1.50
R7-5DL	1.50
R7-5DR	1.50
R7-6L	1.50
R7-6R	3.00
R7-8	22.50
R7-107aL	75.00
R7-108a	31.50
R7-108aD	1.50
R7-108aL	10.50
R7-108aR	13.50
R7-108bL	1.50
R7-108c	18.00
R7-108cL	4.50
R7-108cR	10.50
R7-108cD	1.50
R7-108eL	4.50
R7-108eR	3.00
R7-108R	1.50
R7-2L	3.00
R7-109	7.50
R7-200a	3.00
R7-200b	3.00
R7-200c	6.00
R7-200d	3.00
R10-6L	30.00
R10-7	15.00
R10-11B	80.00
R10-12	15.00
R10-22	63.00

S1-1		37.50
W3-3		40.50
W4-2L		18.75
W4-2R		12.50
W11-2		137.50
W11-8		12.50
W11-12P		15.00
W14-1		2.00
W16-7PL		52.00
W16-9P		4.00

TOTAL 1565.16 SF

SAY	1,566	SF
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841.1

**SUPPORTS FOR GUIDE SIGN (D6 W/ D8-5 INCH
TUBULAR POST) STEEL**

EA

FROM SIGN SUMMARY SHEET

<u>DESIGNATION</u>	<u>QTY.</u>
	3

TOTAL 3 EA

SAY	3	EA
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847.1

SIGN SUP (N/GUIDE)+RTE MKR
W/1 BRKWAY POST ASSEMBLY - STEEL

EA

FROM SIGN SUMMARY SHEET

DESIGNATION	QUANTITY
M1-5 (60)	5
M3-2	1
M3-4	4
M5-2R	1
M6-2R	1
R1-1	47
R1-2	5
R2-1 (25)	2
R3-1	4
R3-2	1
R3-5L	3
R3-5R	1
R3-7L	16
R3-7R	5
R3-8	2
R3-8C	1
R3-26	1
R4-4	1
R4-7	18
R5-1	8
R5-1A	1
R6-1	5
R3-8D	1
R7-1	3
R7-1L	6
R7-1R	10
R7-1D	25
R7-2A	1
R7-2AL	1
R7-2AR	1
R7-2D	1
R7-2L	1
R7-2R	1
R7-5A	25
R7-5AL	8
R7-5AR	5
R7-5BL	1
R7-5C	1
R7-5DL	1
R7-5DR	1
R7-6L	1
R7-6R	2
R7-8	15
R7-107aL	30
R7-108a	21
R7-108aD	1
R7-108aL	7
R7-108aR	9
R7-108bL	1
R7-108c	12
R7-108cL	3
R7-108cR	7
R7-108cD	1
R7-108eL	3
R7-108eR	2
R7-108R	1
R7-2L	1
R7-109	5
R7-200a	1
R7-200b	1
R7-200c	2
R7-200d	1
R10-6L	5
R10-7	3
R10-11B	20
R10-12	3
R10-22	42
S1-1	6

W3-3		2
W4-2L		3
W4-2R		2
W11-2		22
W11-8		2
W11-12P		2
W14-1		1
W16-7PL		26
W16-9P		2

TOTAL 494

SAY 494

850.41

ROADWAY FLAGGER
CONSTRUCTION OPERATIONS

HR

	24	MONTHS OF CONSTRUCTION
	0.2	UTILIZED DURING A PORTION OF CONSTRUCTION
X	21.6667	21.6667 WORKING DAYS/MONTH
X	8	HOURS PER DAY
X	2	2 FLAGGERS
TOTAL:	1664.00	HR

SAY	1,700	HR
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851.

**SAFETY CONTROLS FOR
CONSTRUCTION OPERATIONS**

UD

*

24 MONTHS OF CONSTRUCTION
0.75 **UTILIZED DURING A PORTION OF CONSTRUCTION
X 21.6667 21.6667 WORKING DAYS/MONTH
TOTAL: **390.0006 UD**

SAY	400	UD
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**REFERENCE TO SUBSECTION 850.21,
ASSUMING THAT DAILY LANE CLOSURES WILL
TAKE PLACE DURING 75% OF THE DURATION

852.

**SAFETY SIGNING FOR CONSTRUCTION
 OPERATIONS**

SF

FROM TMP SIGN SUMMARY SHEET

<u>DESIGNATION</u>	<u>(SF) AREA</u>
R2-10a	900
R3-7R/L	25
R4-7	20
R9-8	18
R9-9	16
R9-10	16
R9-11R/L	24
R9-11aR/L	16
W1-4R/L	72
W4-2R/L	36
W4-7R/L	36
W5-1	36
W8-3	36
W8-8	36
W11-2	36
W12-1	18
W16-7pR/L	8
W16-9p(AHD)	8
W20-1(AHD)	675
W20-4(AHD)	36
W20-5R/L/C	45
W20-7a	36
W20-8 (AHD)	36
W21-5aR	36
W30-8R	36
G20-2	337.5

TOTAL 2594.5 SF

SAY	2,600	SF
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853.1

PORTABLE BREAKAWAY BARRICADE TYPE III

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
			20

SUBTOTAL	20	EA
FOR ESTIMATING PURPOSES	0	EA
TOTAL	20	EA

SAY	20	EA
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853.2

**TEMPORARY PRECAST CONCRETE
 MEDIAN BARRIER**

LF

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>(LF)</u>
	<u>START</u>	<u>END</u>		<u>LENGTH</u>
CONTINGENCY				200

SUBTOTAL	200	LF
FOR ESTIMATING PURPOSES	0	LF
TOTAL	200	LF

SAY	200	LF
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853.21

TEMPORARY PRECAST CONCRETE
MEDIAN BARRIER REMOVED AND RESET

LF

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>(LF)</u> <u>LENGTH</u>
	<u>START</u>	<u>END</u>		
CONTINGENCY				400

SUBTOTAL	<u>400</u>	LF
FOR ESTIMATING PURPOSES	0	LF
TOTAL	<u>400</u>	LF
SAY	<u>400</u>	LF

853.41

**TEMP.IMP.ATTENUATOR FOR
 SHLDR INCAPABLE OF REDIRECTION**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
CONTINGENCY			1

SUBTOTAL	<u>1</u>	EA
FOR ESTIMATING PURPOSES	0	EA
TOTAL	<u>1</u>	EA
SAY 1 EA		

853.411

**TEMP.IMP.ATTENUATOR FOR SHLDR
 INCAPABLE OF REDIRECTION R&R**

EA

<u>STREET</u>	<u>STA.</u>	<u>SIDE</u>	<u>QTY.</u>
CONTINGENCY			2

SUBTOTAL	<u>2</u>	EA
FOR ESTIMATING PURPOSES	0	EA
TOTAL	<u>2</u>	EA
SAY 2 EA		

854.014

TEMPORARY PAVING MARKINGS -
4 IN. (PAINTED)

LF

A. TEMPORARY STAGING

<u>STREET</u>	<u>STATION</u> <u>START</u>	<u>END</u>	<u>SIDE</u>	<u>(LF)</u> <u>LENGTH</u>
				SUBTOTAL <u>0</u> LF
				APPLICATIONS (ONCE EVERY 3 MONTHS) 1
				SUBTOTAL <u>0</u> LF

B. ASSUME ONE APPLICATION EQUIVALENT TO PROP. PVM'T MARKINGS

4 INCH REFLECTORIZED WHITE LINE (PAINTED)	0	LF	
4 INCH REFLECTORIZED YELLOW LINE (PAINTED)	0	LF	
4 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	2,730	LF	<<SWLL FROM ITEM 866.04
4 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	25,850	LF	<<FROM ITEM 867.04
	SUBTOTAL <u>28580</u>	LF	
	APPLICATIONS (ONCE EVERY 3 MONTHS) 2		
	SUBTOTAL <u>57160</u>	LF	
	TOTAL <u>57,160</u>	LF	
	SAY <u>57,160</u>	LF	

854.016

TEMPORARY PAVING MARKINGS -
6 IN. (PAINTED)

LF

A. TEMPORARY STAGING

<u>STREET</u>	<u>STATION</u> <u>START</u>	<u>END</u>	<u>SIDE</u>	<u>(LF)</u> <u>LENGTH</u>
				SUBTOTAL <u>0</u> LF
				APPLICATIONS (ONCE EVERY 3 MONTHS) 1
				SUBTOTAL <u>0</u> LF

B. ASSUME ONE APPLICATION EQUIVALENT TO PROP. PVM'T MARKINGS

6 INCH REFLECTORIZED WHITE LINE (PAINTED)	0	LF
6 INCH REFLECTORIZED YELLOW LINE (PAINTED)	0	LF
CROSS WALKS AND STOP LINES REFLECTORIZED WHITE (PAINTED)	0	LF
CROSS WALKS AND STOP LINES REFL. WHITE (THERMOPLASTIC)	12,750	LF
6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	0	LF
6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	0	LF
	SUBTOTAL <u>12750</u>	LF
	APPLICATIONS (ONCE EVERY 3 MONTHS) 2	
	SUBTOTAL <u>25500</u>	LF
	TOTAL <u>25,500</u>	LF
	SAY <u>25,500</u>	LF

854.034

TEMPORARY PAVEMENT MARKINGS - 4 IN.
(REMOVABLE TAPE)

LF

SAY 25% OF PAINTED 4 INCH

FOR ESTIMATING PURPOSES 7145 LF

TOTAL 7,145 LF

SAY	7,145	LF
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854.036

TEMPORARY PAVEMENT MARKINGS - 6 IN.
(REMOVABLE TAPE)

LF

SAY 40% OF PAINTED 6 INCH

FOR ESTIMATING PURPOSES 5100 LF

TOTAL 5,100 LF

SAY	5,100	LF
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854.1

PAVEMENT MARKING REMOVAL - PAINT

SF

A. ASSUME ALL TEMP. PAVEMENT MARKINGS WILL BE REMOVED FROM TMP STAGING PLANS
 (IF APPLICABLE)

<u>FROM ITEM</u>	(LF) <u>WIDTH</u>	(LF) <u>LENGTH</u>	(SF) <u>AREA</u>
			0
			SUBTOTAL <u>0</u> SF

B. EXISTING PAINTED PAVEMENT MARKINGS NOT REMOVED UNDER OTHER MEANS

<u>STREET</u>	<u>STATION</u>		(LF)	(LF)	(SF)
	<u>START</u>	<u>END</u>	<u>WIDTH</u>	<u>LENGTH</u>	<u>AREA</u>
	UNASSIGNED		0.333	1200	400
					0
					0
					SUBTOTAL <u>400</u> SF
					FOR ESTIMATING PURPOSES <u>0</u> SF
					TOTAL <u>400</u> SF
					SAY <u>400</u> SF

854.3

PAVEMENT MARKING REMOVAL - TAPE

SF

<u>FROM ITEM</u>	(LF) <u>WIDTH</u>	(LF) <u>LENGTH</u>	(SF) <u>AREA</u>
TEMPORARY PAVEMENT MARKINGS - 4 IN. (REMOVABLE TAPE)	0.3333	7,145	2381
TEMPORARY PAVEMENT MARKINGS - 6 IN. (REMOVABLE TAPE)	0.5	5,100	2550
		TOTAL	4931 SF
		SAY	4932 SF

856.

SPECIAL LIGHTING UNIT (FLASHING ARROW)

UD

ASSUME 0.05 UNITS PER DAY

	24	MONTHS
	0.85	**UTILIZED DURING A PORTION OF CONSTRUCT
	21.6667	DAYS/MONTH
	442.0	DAYS
X	0.05	UNIT/DAY
TOTAL	22.10	UD

SAY	30	UD
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**REFERENCE TO SUBSECTION 850.21,
ASSUMING THAT DAILY LANE CLOSURES WILL
TAKE PLACE DURING 85% OF THE DURATION

856.12

PORTABLE CHANGEABLE MESSAGE SIGN

UD

ASSUME 2 UNITS FOR THREE-TWO WEEK PERIODS

	30	DAYS
X	2	UNITS
TOTAL	60	UD

SAY	60	UD
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859.

REFLECTORIZED DRUM

DD

ASSUME DRUMS IN USE FOR DURATION OF THE PROJECT

	24	MONTHS
	21.6667	DAYS/MONTH
	520.0008	DAYS
X	50	ASSUMED NUMBER OF DRUMS
TOTAL	26000.04	UD

SAY	26,000	DD
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*ASSUMED 22 DRUMS FOR ROADWAY WORK
*ASSUMED 13 DRUMS FOR UTILITY WORK

864.04

PAVEMENT ARROWS AND LEGENDS
REFL. WHITE (THERMOPLASTIC)

SF

FROM PAVEMENT MARKING AND SIGNING PLAN

TURN ARROW = 15.83 SF
THRU ARROW = 11.84 SF
COMBINATION THRU/TURN ARROW = 28.1 SF
ONLY LEGEND = 29.6 SF
BIKE STOP = 5.37 SF
BIKE PATH = 1.42 SF

<u>STREET</u>	<u>STA.</u>	<u>MARKING</u>	<u>(SF)</u> <u>AREA</u>
TRAPELO RD	19+75.85	LT ARROW	15.83
TRAPELO RD	20+15.26	"ONLY"	29.6
MILL ST	01+00.00	LT ARROW	15.83
MILL ST	01+00.00	LT ARROW	15.83
MILL ST	01+42.43	"ONLY"	29.6
MILL ST	01+42.43	"ONLY"	29.6
TRAPELO RD	27+49.00	"ONLY"	29.6
TRAPELO RD	27+62.75	BIKE STOP	5.37
TRAPELO RD	27+89.29	LT ARROW	15.83
TRAPELO RD	28+49.91	"ONLY"	29.6
TRAPELO RD	28+89.36	LT ARROW	15.83
TRAPELO RD	29+09.98	BIKE STOP	5.37
PLEASANT ST	01+00.00	LT ARROW	15.83
PLEASANT ST	01+15.40	RT ARROW	15.83
PLEASANT ST	01+37.68	"ONLY"	29.6
PLEASANT ST	01+54.21	"ONLY"	29.6
TRAPELO RD	34+24.18	LT ARROW	15.83
TRAPELO RD	33+84.42	"ONLY"	29.6
SHAWS DR		RT ARROW	15.83
SHAWS DR		"ONLY"	29.6
LEXINGTON ST	00+85.50	LT ARROW	15.83
LEXINGTON ST	01+25.41	"ONLY"	29.6
TRAPELO RD	35+75.78	THRU ARROW	11.84
TRAPELO RD	36+18.22	"ONLY"	29.6
TRAPELO RD	39+04.07	BIKE STOP	5.37
TRAPELO RD	42+82.21	BIKE STOP	5.37
TRAPELO RD	44+22.27	BIKE STOP	5.37
TRAPELO RD	50+00.00	BIKE STOP	5.37
TRAPELO RD	51+21.14	BIKE STOP	5.37
TRAPELO RD	54+48.74	BIKE STOP	5.37
TRAPELO RD	57+23.44	BIKE STOP	5.37
TRAPELO RD	61+27.19	BIKE STOP	5.37
TRAPELO RD	63+14.42	BIKE STOP	5.37
TRAPELO RD	65+92.60	"ONLY"	29.6
TRAPELO RD	66+32.44	LT ARROW	15.83
TRAPELO RD	66+39.95	BIKE STOP	5.37
TRAPELO RD	67+86.73	BIKE STOP	5.37
TRAPELO RD	68+93.56	LT ARROW	15.83
TRAPELO RD	69+33.03	"ONLY"	29.6
TRAPELO RD	70+26.34	"ONLY"	29.6
TRAPELO RD	70+66.18	LT ARROW	15.83
TRAPELO RD	72+19.68	LT ARROW	15.83
TRAPELO RD	72+30.97	BIKE STOP	5.37
TRAPELO RD	72+86.11	BIKE STOP	5.37
TRAPELO RD	72+59.10	"ONLY"	29.6
TRAPELO RD	78+55.96	BIKE STOP	5.37
TRAPELO RD	79+69.26	BIKE STOP	5.37
TRAPELO RD	84+92.73	BIKE STOP	5.37
TRAPELO RD	85+82.53	BIKE STOP	5.37
TRAPELO RD	86+16.34	"ONLY"	29.6
TRAPELO RD	86+54.97	LT ARROW	15.83
COMMON ST	01+21.09	LT ARROW	15.83
COMMON ST	01+59.82	"ONLY"	29.6
COMMON ST	02+23.30	LT ARROW	15.83
COMMON ST	02+59.65	"ONLY"	29.6
COMMON ST(S)	00+98.07	LT ARROW	15.83
COMMON ST(S)	01+36.67	"ONLY"	29.6
COMMON ST(S)	03+70.00	"ONLY"	29.6
COMMON ST(S)	04+08.71	LT ARROW	15.83
TRAPELO RD	88+79.86	LT ARROW	15.83
TRAPELO RD	89+19.16	"ONLY"	29.6
TRAPELO RD	89+30.27	BIKE STOP	5.37

TRAPELO RD	92+23.19	BIKE STOP	5.37
TRAPELO RD	95+00.00	BIKE STOP	5.37
TRAPELO RD	98+54.60	BIKE STOP	5.37
TRAPELO RD	102+30.00	BIKE STOP	5.37
BELMONT ST	100+18.18	"ONLY"	29.6
BELMONT ST	100+45.11	RT ARROW	15.83
BELMONT ST	101+25.68	LT ARROW	15.83
BELMONT ST	101+64.46	"ONLY"	29.6
BELMONT ST	102+23.66	LT ARROW	15.83
BELMONT ST	102+62.73	"ONLY"	29.6
BELMONT ST	104+14.78	BIKE STOP	5.37
BELMONT ST	108+89.68	BIKE STOP	5.37
BELMONT ST	112+44.70	BIKE STOP	5.37
BELMONT ST	115+98.62	BIKE STOP	5.37
BELMONT ST	118+71.11	BIKE STOP	5.37
BELMONT ST	124+70.33	BIKE STOP	5.37
BELMONT ST	124+80.02	BIKE STOP	5.37
BELMONT ST	130+46.31	BIKE STOP	5.37
BELMONT ST	136+44.98	BIKE STOP	5.37
WINDSOR AVE		LT ARROW	15.83
WINDSOR AVE		"ONLY"	29.6
GROVE ST	00+91.33	BIKE STOP	5.37
TEMPLETON PKW	00+75.0	BIKE STOP	5.37
ARLINGTON ST	01+72.05	BIKE STOP	5.37
ARLINGTON ST	01+72.06	BIKE STOP	5.37

SUBTOTAL 1330.45 SF

TRAPELO RD	19+50	BIKE PATH	1.42
TRAPELO RD	25+90	BIKE PATH	1.42
TRAPELO RD	27+70	BIKE PATH	1.42
TRAPELO RD	28+80	BIKE PATH	1.42
TRAPELO RD	39+00	BIKE PATH	1.42
TRAPELO RD	42+90	BIKE PATH	1.42
TRAPELO RD	44+20	BIKE PATH	1.42
TRAPELO RD	50+00	BIKE PATH	1.42
TRAPELO RD	51+20	BIKE PATH	1.42
TRAPELO RD	54+50	BIKE PATH	1.42
TRAPELO RD	57+20	BIKE PATH	1.42
TRAPELO RD	61+30	BIKE PATH	1.42
TRAPELO RD	63+10	BIKE PATH	1.42
TRAPELO RD	66+40	BIKE PATH	1.42
TRAPELO RD	67+90	BIKE PATH	1.42
TRAPELO RD	72+30	BIKE PATH	1.42
TRAPELO RD	72+80	BIKE PATH	1.42
TRAPELO RD	78+60	BIKE PATH	1.42
TRAPELO RD	79+70	BIKE PATH	1.42
TRAPELO RD	84+90	BIKE PATH	1.42
TRAPELO RD	85+90	BIKE PATH	1.42
TRAPELO RD	89+30	BIKE PATH	1.42
TRAPELO RD	92+20	BIKE PATH	1.42
TRAPELO RD	95+00	BIKE PATH	1.42
TRAPELO RD	98+50	BIKE PATH	1.42
BELMONT ST	102+10	BIKE PATH	1.42
BELMONT ST	104+10	BIKE PATH	1.42
BELMONT ST	108+90	BIKE PATH	1.42
BELMONT ST	112+60	BIKE PATH	1.42
BELMONT ST	116+00	BIKE PATH	1.42
BELMONT ST	118+80	BIKE PATH	1.42
BELMONT ST	124+70	BIKE PATH	1.42
BELMONT ST	125+00	BIKE PATH	1.42
BELMONT ST	130+50	BIKE PATH	1.42

SUBTOTAL 48.28 SF

TOTAL 1378.73

SAY	1380	SF
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865.1

CROSS WALKS AND STOP LINES REFL. WHITE
(THERMOPLASTIC)

SF

FROM PAVEMENT MARKING AND SIGNING PLAN

CROSSWALKS

<u>STREET</u>	<u>STATION</u>	<u>END</u>	<u>(LF)</u> <u>WIDTH</u>	<u>(LF)</u> <u>LENGTH</u>	<u>(SF)</u> <u>AREA</u>
MILL ST	2+35.00	3+10.00	10.0	89.46	447.3
MILL ST	00+00.00	1+00.00	15.0	70	525
MILL ST	00+00.00	1+00.00	10.0	44.79	223.95
TRAPELO RD	18+00.00	20+00.00	12.0	102	612
TRAPELO RD	23+00.00	25+00.00	15.0	61	457.5
AGASSIZ ST			10.0	22	110
TRAPELO RD	29+00.00	30+50.00	12.0	111.29	667.74
PLEASENT ST	0+00.00	1+00.00	10.0	22	110
MORaine			10.0	32	160
SHAWS DR			12.0	70	420
TRAPELO RD	35+00.00	36+00.00	15.0	68.3	512.25
LEXINGTON ST	00+00.00	01+00.00	12.0	55.16	330.96
LEXINGTON ST	03+00.00	04+50.00	10.0	72.32	361.6
THAYER ST			10.0	33.8	169
CHURCH ST	03+50.00	04+00.00	10.0	59	295
CHURCH ST	00+00.00	01+00.00	10.0	116	580
TRAPELO RD	35+00.00	36+00.00	10.0	46	92
WHITE ST			10.0	110.1	550.5
WAVERLY ST			12.0	51	306
TRAPELO RD	43+50.00	44+50.00	10.0	41	205
SYCAMORE ST			10.0	50.5	252.5
HAWTHORNE ST			10.0	65	325
TRAPELO RD	47+80.00	48+20.00	10.0	37.75	188.75
MAPLE ST			10.0	41.76	208.8
DAVIS ST			10.0	50.86	254.3
BEECH ST (S)			12.0	57.61	345.66
BEECH ST (N)			10.0	46.75	233.75
TRAPELO RD	55+00.00	57+00.00	15.0	173	1297.5
HULL ST			10.0	41.5	207.5
WALNUT ST			10.0	50	250
TRAPELO RD	63+00.00	64+00.00	12.0	38	228
TRAPELO RD	66+00.00	67+00.00	12.0	49.13	294.78
FLEET RD			10.0	65.75	328.75
HARRIET AVE	00+00.00	01+00.00	12.0	50	300
SLADE ST	00+00.00	01+00.00	10.0	30	150
SLADE ST	00+00.00	01+00.00	12.0	56.8	340.8
TRAPELO RD	70+00.00	72+00.00	12.0	102	612
HARDING AVE			10.0	50.14	250.7
GILBERT RD			10.0	62.3	311.5
BARNARD RD			10.0	51	255
POPLAR ST			10.0	39.41	197.05
TRAPELO RD	78+00.0	78+50.00	12.0	47.47	284.82
TRAPELO RD	83+50.00	84+00.00	12.0	52	312
WILLISTON RD			10.0	49	245
TRAPELO RD	86+50.00	87+50.00	12.0	51	102
TRAPELO RD	88+00.000	89+00.00	15.0	68.12	136.24
COMMON ST	00+00.00	01+00.00	10.0	34.8	69.6
COMMON ST	00+00.00	01+00.00	12.0	53	106
COMMON ST (S)	00+00.00	01+00.00	15.0	81.5	163
CUSHING AVE			10.0	26.72	53.44
TRAPELO RD	92+0.00	93+00.00	12.0	46	276
WILLOW ST			10.0	55.6	278
OAK AVE			10.0	59.67	298.35
TRAPELO RD	99+00.00	101+00.00	15.0	142.36	1067.7
PINE ST			10.0	58.32	291.6
BELMONT ST			12.0	61.64	369.84
OAKLEY RD			10.0	76.6	383
BELMONT ST	107+00.00	108+00.00	10.0	45	225
PAYSON RD			10.0	78	390
BELMONT ST	113+85.00	114+25.00	12.0	46.6	279.6
VAN NESS RD			10.0	63.56	317.8
COMMONWEALTH RD			10.0	48.54	242.7
STULTS RD			10.0	54.85	274.25
CARVER RD			10.0	52.52	262.6
SCHOOL ST	00+00.00	01+00.00	10.0	122	610
LEWIS RD			10.0	52.52	262.6
BELMONT ST	120+00.00	122+00.00	15.0	126.57	949.275
SCHOOL ST(N)	00+00.00	01+00.00	10.0	53.52	267.6

NEWTON ST			10.0	26.7	133.5
LANGDON AVE			10.0	26.68	133.4
WORCESTER ST			10.0	26	130
BELMONT ST	125+50.00	126+50.00	15.0	62.1	465.75
HILLSIDE RD			10.0	23.59	117.95
SPRINGFIELD ST			10.0	26.18	130.9
WESTLUND RD			10.0	37.17	185.85
FALMOUTH ST			10.0	28.76	143.8
BELMONT ST	129+00.00	129+50.00	12.0	54	324
PARK RD			10.0	45.5	227.5
WOODLEIGH RD			10.0	46.25	231.25
BELMONT ST	131+00.00	132+00.00	15.0	60	450
BELMONT ST	134+00.00	135+00.00	12.0	64	384
BELMONT ST	136+00.00	137+00.00	15.0	73	547.5
GROVE ST	00+00.00	01+00.00	15.0	74	555
TEMPLETON PKW	00+00.00	01+00.00	10.0	27.23	136.15
ARLINGTON ST	00+00.00	01+00.00	12.0	66.42	398.52
MARION RD			10.0	32.11	160.55
MARLBORO ST			10.0	34	170
OXFORD AVE			10.0	27.2	136
BELMONT ST	140+50.00	141+50.00	12.0	47.5	285
PRENTISS ST			10.0	34.53	172.65
EXETER ST			10.0	42.46	212.3
KEENAN ST			10.0	61.62	308.1
ERICSSON ST			10.0	37.72	188.6
BRIMMER ST			10.0	38.26	191.3
BELMONT ST	146+00.00	147+00.00	15.0	61.63	462.225
				10757.14	29468.0

STOP LINES

STREET	STATION		(LF)	(LF)	(SF)
	START	END	WIDTH	LENGTH	AREA
MILL ST	00+00.00	1+00.00	1.0	61.29	61.29
TRAPELO RD	18+00.00	20+00.00	1.0	52	52
TRAPELO RD	23+00.00	25+00.00	1.0	62.3	62.3
TRAPELO RD	29+00.00	30+50.00	1.0	70.5	70.5
PLEASENT ST	0+00.00	1+00.00	1.0	22	22
MORAIN			1.0	12	12
SHAWS DR			1.0	24.2	24.2
TRAPELO RD	33+00.00	36+00.00	1.0	115.25	115.25
LEXINGTON ST	00+00.00	01+00.00	1.0	28.61	28.61
LEXINGTON ST	03+00.00	04+50.00	1.0	36.5	36.5
THAYER ST			1.0	17.5	17.5
CHURCH ST	03+50.00	04+00.00	1.0	36	36
CHURCH ST	00+00.00	01+00.00	1.0	28.2	28.2
TRAPELO RD	35+00.00	36+00.00	1.0	48.66	48.66
WHITE ST			1.0	28	28
WAVERLY ST			1.0	18.76	18.76
SYCAMORE ST			1.0	14.5	14.5
HAWTHORNE ST			1.0	22.2	22.2
MAPLE ST			1.0	15.54	15.54
BEECH ST (S)			1.0	13	13
BEECH ST (N)			1.0	13.75	13.75
TRAPELO RD	55+00.00	57+00.00	1.0	51	51
HULL ST			1.0	14.5	14.5
WALNUT ST			1.0	13.5	13.5
TRAPELO RD	63+00.00	64+00.00	1.0	19	19
TRAPELO RD	65+25.00	65+50.00	1.0	24	24
FLEET RD			1.0	25.74	25.74
HARRIET AVE	00+00.00	01+00.00	1.0	21.73	21.73
SLADE ST	00+00.00	01+00.00	1.0	13.5	13.5
TRAPELO RD	70+00.00	72+00.00	1.0	64.66	64.66
HARDING AVE			1.0	14.5	14.5
GILBERT RD			1.0	16	16
BARNARD RD			1.0	13.36	13.36
POPLAR ST			1.0	12.92	12.92
WILLISTON RD			1.0	17.23	17.23
TRAPELO RD	86+50.00	89+00.00	1.0	73.8	73.8
COMMON ST	00+00.00	01+00.00	1.0	26.5	26.5
COMMON ST (S)	00+00.00	01+00.00	1.0	28.28	28.28
WILLOW ST			1.0	13.68	13.68
OAK AVE			1.0	19.88	19.88
TRAPELO RD	99+00.00	101+00.00	1.0	77.1	77.1
PINE ST			1.0	20.91	20.91
BELMONT ST			1.0	26.39	26.39
OAKLEY RD			1.0	22.31	22.31
BELMONT ST	107+00.00	108+00.00	1.0	45	45
PAYSON RD			1.0	28.19	28.19
VAN NESS RD			1.0	15.92	15.92

COMMONWEALTH RD			1.0	14.31	14.31
STULTS RD			1.0	17.36	17.36
CARVER RD			1.0	17	17
SCHOOL ST	00+00.00	01+00.00	1.0	41.52	41.52
LEWIS RD			1.0	15.94	15.94
BELMONT ST	120+00.00	122+00.00	1.0	57	57
SCHOOL ST(N)	00+00.00	01+00.00	1.0	20.11	20.11
NEWTON ST			1.0	13.59	13.59
LANGDON AVE			1.0	12.83	12.83
WORCESTER ST			1.0	13.4	13.4
HILLSIDE RD			1.0	11.89	11.89
SPRINGFIELD ST			1.0	13.18	13.18
WESTLUND RD			1.0	12.94	12.94
FALMOUTH ST			1.0	12.78	12.78
PARK RD			1.0	17.2	17.2
WOODLEIGH RD			1.0	14	14
BELMONT ST	134+00.00	137+00.00	1.0	57.89	57.89
GROVE ST	00+00.00	01+00.00	1.0	29.68	29.68
ARLINGTON ST	00+00.00	01+00.00	1.0	29.32	29.32
MARLBORO ST			1.0	16.87	16.87
OXFORD AVE			1.0	14	14
PRENTISS ST			1.0	15.76	15.76
EXETER ST			1.0	13	13
KEENAN ST			1.0	18.17	18.17
ERICSSON ST			1.0	12	12
BRIMMER ST			1.0	12.67	12.67
				1984.77	1984.77

TOTAL 31452.7 SF

SAY	31500	SF
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LENGTH 12750 FT

866.04

4 INCH REFLECTORIZED WHITE LINE
(THERMOPLASTIC)

LF

FROM PAVEMENT MARKING AND SIGNING PLAN

Single White Edge Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	79.43
SUBTOTAL			79.4 LF

Single White Lane Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	96
TRAPELO RD	15+40.00	44+00.00	1,112
TRAPELO RD	44+00.00	78+00.00	242
TRAPELO RD	78+00.00	144+00.00	745
TRAPELO RD	114+00.00	00+00.00	401
PLEASANT STREET			57
SHAWS DRIVE			77
LEXINGTON STREET			320
COMMON STREET			1,140
SCHOOL STREET			0
SUBTOTAL			2730.0 LF

Broken White Lane Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	30
TRAPELO RD	15+40.00	44+00.00	410
TRAPELO RD	44+00.00	78+00.00	0
TRAPELO RD	78+00.00	114+00.00	80
TRAPELO RD	00+00.00	00+00.00	370
LEXINGTON STREET			30
COMMON STREET			50
GROVE STREET			0
ARLINGTON STREET			0
SUBTOTAL			970.0 LF

Dash White Lane Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	0
TRAPELO RD	15+40.00	44+00.00	184
TRAPELO RD	44+00.00	78+00.00	192
TRAPELO RD	78+00.00	114+00.00	312
TRAPELO RD	00+00.00	00+00.00	162
COMMON STREET			16
SUBTOTAL			866.0 LF

Parking Stalls

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>	
	<u>START</u>	<u>END</u>	<u>LENGTH</u>	
MILL ST	00+00.00	04+60.00	0	
TRAPELO RD	15+40.00	44+00.00	704	64(8' lines) 32(2' Lines) 32(4' Lines)
TRAPELO RD	44+00.00	78+00.00	1,844	170(8' lines) 98(2' Lines) 72(4' Lines)
TRAPELO RD	78+00.00	114+00.00	2,164	207(8' lines) 78(2' Lines) 88(4' Lines)
TRAPELO RD	00+00.00	00+00.00	1,410	130(8' lines) 75(2' Lines) 55(4' Lines)
LEXINGTON STREET			188	17(8' lines) 8(2' Lines) 9(4' Lines)
CHURCH STREET			184	16(8' lines) 4(2' Lines) 12(4' Lines)
HARRIET AVENUE			64	
COMMON STREET			420	37(8' lines) 12(2' Lines) 25(4' Lines)
SUBTOTAL			6978.0 LF	
TOTAL			11623.4 LF	

BSC GROUP, INC.
15 ELKINS STREET
BOSTON, MA 02127

TRAPELO ROAD AND BELMONT STREET
BELMONT/WATERTWON, MA

CALCULATED BY JGI ,DJS,KDL,CLB
CHECKED BY PJB
3/1/12

SAY	11650	LF
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866.06

6 INCH REFLECTORIZED WHITE LINE
(THERMOPLASTIC)

FT

FROM PAVEMENT MARKING AND SIGNING PLAN

SWEL, SWLL DWLL, BWLL, PARKING

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	911.57
TRAPELO RD	15+40.00	44+00.00	8,296
TRAPELO RD	44+00.00	87+00.00	9,016
TRAPELO RD	87+00.00	100+00.00	4,955
BELMONT ST	100+00.00	147+00.00	9,662

TOTAL 32,841.19 FT

SAY	32850	FT
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866.08

8 INCH REFLECTORIZED WHITE LINE
(THERMOPLASTIC)

LF

FROM PM & S PLAN - SWCHL

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
TRAPELO	20+00.00		140.0
PLEASANT			30.0
THAYER			90.0

TOTAL 260.0 LF

SAY	260	LF
-----	-----	----

867.04

4 INCH REFLECTORIZED YELLOW LINE
(THERMOPLASTIC)

LF

FROM PAVEMENT MARKING AND SIGNING PLAN

Double Yellow Lane Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	610
TRAPELO RD	15+40.00	44+00.00	4,590
TRAPELO RD	44+00.00	78+00.00	3,240
TRAPELO RD	78+00.00	114+00.00	3,075
TRAPELO RD	114+00.00	148+00.00	4,065

SUBTOTAL 15580.0 LF

Single Yellow Edge Line

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
MILL ST	00+00.00	04+60.00	0
TRAPELO RD	15+40.00	44+00.00	0
TRAPELO RD	44+00.00	78+00.00	1,570
TRAPELO RD	78+00.00	114+00.00	3,135
TRAPELO RD	114+00.00	148+00.00	0
PLEASANT STREET			158
SHAWS DRIVE			154
LEXINGTON STREET			520
CHRUCH STREET			625
WHITE STREET			175
WAVERLY STREET			155
BEECH STREET			367
FLEET ROAD			283
SLADE ROAD			140
HARRIET DRIVE			75
COMMON STREET			1,610
PINE STREET			80
BELMONT STREET			400
PAYSON ROAD			85
SCHOOL STREET			560
WINDSOR AVENUE			175
GROVE STREET			0
ARLINGTON STREET			0

SUBTOTAL 10267.0 LF

TOTAL 25847.0 LF

SAY	25850	LF
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867.08

8 INCH REFLECTORIZED YELLOW LINE
(THERMOPLASTIC)

LF

FROM PM & S PLAN - SYCHL

<u>STREET</u>	<u>STATION</u>		<u>(LF)</u>
	<u>START</u>	<u>END</u>	<u>LENGTH</u>
PLEASANT	01+00.00		40.0
TRAPELO	30+00.00		10.0

TOTAL 50.0 LF

SAY	50	LF
-----	----	----

867.12

12 INCH REFLECTORIZED YELLOW LINE
(THERMOPLASTIC)

LF

FROM PM & S PLAN - YTL

TRAPELO	32+00.00	40.0
TRAPELO	36+00.00	75.0
TRAPELO	59+00.00	45.0
TRAPELO	82+00.00	15.0
COMMON	03+00.00	40.0
TRAPELO	99+00.00	35.0
ARLINGTON	03+00.00	0.0

TOTAL 250.0 LF

SAY	250	LF
-----	-----	----

874.

STREET NAME SIGN

EA

FROM SIGN SUMMARY SHEET (POST INCLUDED IN ITEM)

<u>DESIGNATION</u>	<u>QTY.</u>
D3-1	1
D3-2	0
D3-3	0
D3-4	1
D3-5	0
D3-6	1
D3-7	1
D3-8	0
D3-9	2
D3-10	2
D3-11	1
D3-12	1
D3-13	1
D3-14	1
D3-15	1
D3-16	1
D3-17	0
D3-18	1
D3-19	1
D3-20	1
D3-21	1
D3-22	0
D3-23	1
D3-24	1
D3-25	1
D3-26	1
D3-27	1
D3-28	1
D3-29	1
D3-30	0
D3-31	11
D3-32	1
D3-33	0
D3-34	1
D3-35	1
D3-36	0
D3-37	1
D3-38	1
D3-39	1
D3-40	1
D3-41	1
D3-42	1
D3-43	1
D3-44	1
D3-45	1
D3-46	1
D3-47	1
D3-48	1
D3-49	1
D3-50	1
D3-51	1
D3-52	1
D3-53	1
D3-54	1
D3-55	1
D3-56	1
D3-57	1
D3-58	1
D3-59	1
D3-60	1
D3-61	1
D3-62	1
D3-63	1
D3-64	1
D3-65	1

BSC GROUP, INC.
15 ELKINS STREET
BOSTON, MA 02127

TRAPELO ROAD AND BELMONT STREET
BELMONT/WATERTWON, MA

CALCULATED BY JGI ,DJS,KDL,CLB
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3/1/12

TOTAL 68 EA

SAY	68	EA
-----	----	----

874.11

STREET SIGN WITHOUT POST

EA

FROM SIGN SUMMARY SHEET

<u>DESIGNATION</u>	<u>QTY.</u>
D3-1A	4
D3-3A	1
D3-5A	2
D3-7A	2
D3-17A	2
D3-22A	1
D3-29A	1
D3-33A	1
D3-44A	2
D3-1B	8
D3-3B	1
D3-33B	4
D3-7C	1
D3-33C	1

TOTAL 31 EA

SAY	31	EA
-----	----	----

874.2

TRAFFIC SIGN REMOVED AND RESET

EA

FROM PAVEMENT MARKING AND SIGNING PLAN

<u>DESIGNATION</u>	<u>QTY.</u>
SHEET 1	4
SHEET 2	2
SHEET 3	7
SHEET 4	5
SHEET 5	4
SHEET 6	6
SHEET 7	3
SHEET 8	7

TOTAL 38 EA

SAY	38	EA
-----	----	----

874.4

TRAFFIC SIGN REMOVED AND STACKED

EA

FROM PAVEMENT MARKING AND SIGNING PLAN

<u>DESIGNATION</u>	<u>QTY.</u>
SHEET 1	46
SHEET 2	57
SHEET 3	77
SHEET 4	53
SHEET 5	59
SHEET 6	26
SHEET 7	31
SHEET 8	47

TOTAL 396 EA

SAY	400	EA
-----	-----	----

874.7

MISCELLANEOUS SIGNS
REMOVED AND STACK

EA

FROM PAVEMENT MARKING AND SIGNING PLAN

<u>DESIGNATION</u>	<u>QTY.</u>
SHEET 1	0
SHEET 2	1
SHEET 3	3
SHEET 4	2
SHEET 5	8
SHEET 6	3
SHEET 7	1
SHEET 8	2

TOTAL 20 EA

SAY	20	EA
-----	----	----

874.8

MISCELLANEOUS SIGNS
REMOVED AND RESET

EA

FROM PAVEMENT MARKING AND SIGNING PLAN

<u>DESIGNATION</u>	<u>QTY.</u>
SHEET 1	6
SHEET 2	4
SHEET 3	0
SHEET 4	2
SHEET 5	2
SHEET 6	2
SHEET 7	1
SHEET 8	1

TOTAL 18 EA

SAY	18	EA
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901.3

**4000 PSI, 1.5 IN., 565 CEMENT CONCRETE
 FOR POST FOUNDATION**

CY

FOR PLACEMENT OF FENCE POSTS

	(LF)	
<u>LENGTH OF FENCES</u>	<u>LENGTH</u>	
42 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE PST OPT.)	60	
48 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE PST OPT.)	40	
72 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE PST OPT.)	70	
CHAIN LINK FENCE REMOVED AND RESET	325	
METAL FENCE REMOVED AND RESET	64	
LENGTH OF FENCE		
	559	LF
ASSUME 1 POST EVERY 8 FEET:	0.125	POSTS / FOOT
NUMBER OF POSTS:	70	EA
POST ITEMS		
	EA	
42 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST	4	
48 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST	4	
72 INCH CHAIN LINK FENCE CORNER OR INTERMEDIATE BRACE POST	4	
NUMBER OF POST		
	12	EA
TOTAL NUMBER OF POSTS		
	82	EA
ASSUME EACH POST FOUNDATION IS 3 FT DEEP AND 1 FT IN DIAMETER		
VOLUME OF EACH POST FOUNDATION:	2.3562	CF / FOUNDATION
TOTAL VOLUME:		
	192.91	CF
CONVERSION FACTOR	27.00	CF/CY
TOTAL		
	7.14	CY
SAY 8 CY		

903.

3000 PSI, 1.5 IN., 470 CEMENT CONCRETE

CY

FOR PLACEMENT OF THRUST BLOCKS AND MISC. APPLICATIONS

A) ASSUME 0.5 CY FOR EACH HYDRANT REMOVED AND RESET

FROM ITEM 376.2:	8	EA
	<u>0.5</u>	CY / EA
	4	CY / EA
	<u>4</u>	CY

SAY	5	CY
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APPENDIX

SURFACE AREAS
AND
EARTHWORKS CALCS

PROJECT INFORMATION

LENGTH OF PROJECT	12990	LF
CONSTRUCTION PERIOD	24	MO
ON-SITE DURATION	30	MO

SIDEWALK AREAS

(CURB TO BACK OF SIDEWALK)

STREET	STATION		SIDE	CEM CONC SW (SF)	SCORED CEM CONC SW (SF)	COLORED SCORED CEM CONC SW (SF)	CEM CONC SW AT DRIVE (SF)	SCORED CEM CONC SW AT DRIVE (SF)	CEM CONC WCR (SF)	4" LOAM (SF)	3" PINE BARK MULCH (SF)	18" LOAM & 4" PINE BARK MULCH (SF)	TREE PIT WITH SEED (SF)	TREE PIT WITH MULCH (SF)	PBARK MULCH (SF)	GRASS SEED (SF)
	START	END														
MILL ST	00+00.00	02+54.95	Rt.	1,403	0	0	0	0	87	0	0	0	0	0	0	0
MILL ST	02+73.08	03+69.61	Rt.	0	0	0	0	0	134	0	0	0	0	0	0	0
MILL ST	01+00.00	01+75.24	Lt.	296	0	0	0	0	0	0	0	0	0	0	0	0
TRAPELO RD	16+66.08	18+74.17	Lt.	592	0	0	0	0	287	1,987	0	0	0	0	0	1,987
TRAPELO RD	16+86.63	25+31.61	Rt.	4,404	0	0	418	0	620	2,065	0	0	0	0	0	2,065
TRAPELO RD	19+25.02	28+54.50	Lt.	3,853	0	0	194	0	375	1,621	0	0	0	0	0	1,621
TRAPELO RD	25+50.20	33+37.50	Rt.	2,630	0	0	1,764	0	584	165	0	0	202	0	0	367
TRAPELO RD	28+91.79	29+43.22	Lt.	894	0	0	101	0	304	0	0	0	0	0	0	0
TRAPELO RD	29+96.47	34+55.63	Lt.	217	2,691	0	0	0	462	0	0	0	0	0	0	0
TRAPELO RD	33+49.00	34+77.27	Rt.	195	0	0	0	0	487	1,964	0	0	107	0	0	2,071
TRAPELO RD	35+16.19	37+89.40	Rt.	47	1,375	0	0	0	440	0	0	0	0	0	0	0
CHURCH ST	00+42.67	03+96.30	Lt.	0	1,772	1,192	150	135	201	0	150	0	0	266	416	0
CHURCH ST	01+03.25	03+91.00	Rt.	239	859	0	0	0	581	348	0	0	0	0	0	348
LEXINGTON ST	03+89.76	04+44.00	Lt.	215	0	13	0	0	180	0	0	0	0	0	0	0
LEXINGTON ST	03+22.20	04+56.35	Rt.	378	0	0	0	0	732	0	0	0	0	0	0	0
TRAPELO RD	35+03.79	40+89.89	Lt.	0	2,297	564	0	225	558	0	0	0	0	0	0	0
TRAPELO RD	38+55.02	41+50.00	Rt.	160	2,012	496	0	0	409	0	0	0	0	68	68	0
TRAPELO RD	41+17.57	43+33.04	Lt.	2,116	0	0	0	0	237	1,871	0	0	395	0	0	2,266
TRAPELO RD	43+50.98	48+38.55	Lt.	3,288	0	0	697	0	543	1,678	0	0	1,414	0	0	3,092
TRAPELO RD	41+92.27	46+00.35	Rt.	1,534	363	170	816	0	415	390	0	0	882	426	426	1,272
TRAPELO RD	46+03.97	50+43.27	Rt.	2,316	0	0	1,155	0	722	812	0	0	1,341	0	0	2,153
TRAPELO RD	50+68.98	55+34.38	Rt.	325	2,890	1,245	178	0	535	93	0	0	308	426	426	401
TRAPELO RD	48+70.70	53+19.10	Lt.	2,343	0	0	1,563	0	318	427	0	0	1,222	0	0	1,649
TRAPELO RD	53+45.48	56+11.74	Lt.	461	2,455	678	0	0	409	0	0	0	0	325	325	0
TRAPELO RD	56+32.55	66+74.69	Lt.	3,742	1,059	145	4,063	0	690	350	0	0	1,661	121	121	2,011
TRAPELO RD	55+73.92	58+26.56	Rt.	0	1,720	336	139	595	505	0	0	0	0	55	55	0
TRAPELO RD	58+59.60	60+54.50	Rt.	632	0	0	601	0	432	38	0	0	350	0	0	388
TRAPELO RD	60+87.65	71+26.04	Rt.	3,310	3,644	670	1,861	308	910	284	0	0	218	542	542	502
TRAPELO RD	61+66.26	68+27.84	Cntr.	0	0	0	0	0	80	0	210	0	1,566	0	210	1,566
TRAPELO RD	72+95.75	73+23.47	Cntr.	0	0	0	0	0	0	0	205	0	0	0	205	0
TRAPELO RD	67+26.70	70+55.94	Lt.	2,090	0	0	567	0	237	238	0	0	390	0	0	628
TRAPELO RD	70+72.16	70+98.97	Lt. Isl	63	0	0	0	0	216	0	0	0	170	0	0	170
TRAPELO RD	70+62.78	73+77.48	Lt.	1,316	0	0	375	0	432	674	0	0	226	0	0	900
TRAPELO RD	74+07.12	86+46.90	Lt.	3,894	2,100	347	2,276	83	609	2,466	210	0	1,891	0	210	4,357
HARRIET AVE	00+45.19	01+78.72	Rt.	1,008	0	0	0	0	313	37	0	0	365	0	0	402
HARRIET AVE	00+49.04	01+51.44	Lt.	590	0	0	237	0	25	0	0	0	0	0	0	0
TRAPELO RD	71+66.42	73+37.63	Rt.	1,135	0	0	131	0	468	196	0	0	90	0	0	286
TRAPELO RD	73+60.96	75+48.67	Rt.	760	0	0	238	0	352	465	0	0	255	0	0	720
TRAPELO RD	75+77.87	77+70.45	Rt.	985	0	0	134	0	403	943	0	0	174	0	0	1,117
TRAPELO RD	77+94.01	84+16.17	Rt.	3,672	0	0	1,108	0	610	907	0	0	1,424	0	0	2,331
TRAPELO RD	83+29.48	83+68.93	Cntr.	0	0	0	0	0	0	0	0	0	300	0	0	300
TRAPELO RD	84+43.73	87+79.07	Rt.	122	1,710	212	113	299	403	0	0	244	0	0	244	0
TRAPELO RD	86+61.52	87+01.38	Lt.	0	0	0	0	0	299	0	0	280	0	149	429	0
COMMON ST N	01+51.22	05+56.35	Lt.	217	1,812	539	0	0	453	115	0	0	0	211	211	115
COMMON ST N	00+66.67	05+15.28	Rt.	205	3,099	655	0	0	418	90	0	116	0	665	781	90
COMMON ST S	00+43.95	04+05.96	Rt.	891	1,237	490	215	86	426	0	88	0	0	164	252	0
COMMON ST S	00+64.00	03+36.66	Lt.	722	113	77	803	150	0	0	143	0	67	49	192	67
TRAPELO RD	87+37.93	87+77.10	Lt.	0	757	96	0	0	175	0	0	674	0	0	674	0
TRAPELO RD	88+04.14	92+89.51	Lt.	1,254	1,900	424	311	0	412	652	0	0	324	354	354	976
TRAPELO RD	93+13.69	96+57.40	Lt.	1,324	0	0	705	0	338	470	0	0	300	0	0	770
TRAPELO RD	96+98.08	100+21.36	Lt.	1,557	0	0	421	0	470	267	0	0	301	0	0	568
TRAPELO RD	88+36.51	100+15.32	Rt.	4,607	2,068	82	1,771	188	728	564	289	0	770	270	559	1,334
TRAPELO RD	89+93.40	90+17.35	Cntr.	0	0	0	0	0	0	0	0	210	0	0	210	0
TRAPELO RD	92+01.01	92+30.37	Cntr.	0	0	0	0	0	0	0	0	221	0	0	221	0
TRAPELO RD	94+79.58	95+32.29	Cntr.	0	0	0	0	0	0	0	0	0	408	0	0	408
BELMONT ST	100+60.29	102+59.02	Rt.	1,435	0	0	0	0	415	0	0	0	0	0	0	0
BELMONT ST	102+87.40	115+45.38	Rt.	7,766	0	0	120	0	523	1,001	0	0	130	0	0	1,131
BELMONT ST	100+61.27	104+67.41	Lt.	1,729	0	0	457	0	404	285	0	0	589	0	0	874
BELMONT ST	104+96.78	113+05.52	Lt.	3,459	0	0	932	0	429	883	0	0	1,215	0	0	2,098

BSC GROUP, INC.
 15 ELKINS STREET
 BOSTON, MA 02127

TRAPELO ROAD AND BELMONT STREET
 BELMONT/WATERTOWN, MA

CALCULATED BY JGI,DJS,KDL,CLB
 CHECKED BY PJB
 3/1/12

BELMONT ST	105+48.26	112+75.64	Cntr.	0	0	0	0	0	103	5,087	0	0	1,791	0	0	6,878
BELMONT ST	113+45.73	115+16.49	Lt.	869	0	0	124	0	472	285	0	0	276	0	0	561
BELMONT ST	115+46.35	117+09.62	Lt.	801	0	0	73	0	291	293	0	0	249	0	0	542
BELMONT ST	117+36.83	119+18.78	Lt.	754	0	0	135	0	353	274	0	0	429	0	0	703
BELMONT ST	119+44.36	121+41.45	Lt.	796	708	194	0	0	713	214	0	0	0	0	0	214
BELMONT ST	115+72.25	117+78.88	Rt.	1,089	0	0	230	0	311	494	0	0	362	0	0	856
BELMONT ST	118+06.25	118+43.96	Rt.	647	0	0	0	0	346	103	0	0	32	0	0	135
BELMONT ST	119+13.09	120+29.18	Rt.	0	470	0	0	0	295	0	0	0	0	0	0	0
BELMONT ST	120+65.25	121+76.99	Rt.	984	0	0	423	0	383	235	0	0	327	0	0	562
BELMONT ST	122+10.11	124+09.49	Rt.	669	0	0	326	0	450	247	0	0	0	76	76	247
BELMONT ST	124+34.99	126+21.79	Rt.	596	0	0	444	0	511	169	0	0	0	93	93	169
BELMONT ST	126+44.23	128+40.34	Rt.	939	0	0	153	0	370	293	0	0	0	94	94	293
BELMONT ST	128+68.44	130+66.90	Rt.	845	0	0	252	0	500	470	0	0	0	91	91	470
BELMONT ST	130+93.89	135+44.00	Rt.	3,255	0	169	534	0	667	781	0	0	423	0	0	1,204
BELMONT ST	121+67.40	123+54.63	Lt.	595	1,214	316	0	0	470	0	0	0	113	0	0	113
BELMONT ST	123+81.24	125+55.42	Lt.	412	429	0	0	0	337	0	0	0	0	101	101	0
BELMONT ST	125+81.53	127+48.90	Lt.	311	820	278	0	0	361	0	0	0	0	197	197	0
BELMONT ST	127+74.44	128+64.66	Lt.	479	0	0	0	0	400	0	0	0	315	0	0	315
BELMONT ST	128+87.86	130+80.77	Lt.	819	0	0	296	0	433	545	0	0	116	0	0	661
BELMONT ST	131+14.85	134+61.73	Lt.	896	1,179	282	291	0	359	734	0	0	143	120	120	877
BELMONT ST	135+17.64	135+63.11	Lt.	113	526	78	0	0	285	0	50	0	0	0	50	0
BELMONT ST	135+67.15	136+13.87	Rt.	1,019	0	0	157	0	204	201	0	0	606	0	0	807
BELMONT ST	136+43.33	141+72.73	Rt.	467	2,547	654	859	320	451	183	0	0	166	373	373	349
BELMONT ST	142+04.65	144+23.25	Rt.	1,013	0	0	437	0	341	245	0	0	340	0	0	585
BELMONT ST	144+51.14	146+49.04	Rt.	1,261	0	0	229	0	481	250	0	0	167	0	0	417
BELMONT ST	146+74.88	147+30.15	Rt.	322	0	0	0	0	123	92	0	0	0	0	0	92
BELMONT ST	135+89.79	138+20.30	Lt.	1,069	0	0	456	0	364	85	0	0	113	0	0	198
BELMONT ST	138+54.34	140+66.77	Lt.	126	1,262	409	0	0	306	0	0	0	0	54	54	0
BELMONT ST	140+93.56	143+10.27	Lt.	185	1,258	436	0	0	367	0	0	0	0	57	57	0
BELMONT ST	143+37.67	146+03.00	Lt.	533	650	189	489	0	395	92	0	0	207	97	97	299
BELMONT ST	146+27.00	146+91.48	Lt.	216	0	0	0	0	383	0	0	0	131	0	0	131

98,471 48,996 11,436 30,522 2,389 33,620 35,718 1,345 1,745 25,361 5,444 8,534 61,079

BACK OF SIDEWALK AREAS

STREET	STATION		SIDE	DRIVEWAY - HMA(SF)	DRIVEWAY - CONC (SF)	WALK - BRICK (SF)	WALK - CONC (SF)	WALK - HMA (SF)	4" LOAM AND SEED		CEMENT CONCRETE SAWCUT	ASPHALT PAVEMENT SAWCUT	LIMIT OF WORK ASPHALT PAVEMENT SAWCUT
	START	END							4" MULCH	4" MULCH			
MILL ST	00+00.00	02+54.95	Rt.	0	0	0	0	0	1,548	0			
MILL ST	02+73.08	03+69.61	Rt.	0	0	0	0	0	287	0		8	52
MILL ST	01+78.45	03+97.36	Lt.	0	0	0	0	0	0	0			
TRAPELO RD	16+66.08	18+74.17	Lt.	0	0	0	0	0	783	0			
TRAPELO RD	16+86.63	25+31.61	Rt.	135	0	35	18	362	322	176	18	117	19
TRAPELO RD	19+25.02	28+54.50	Lt.	0	0	0	0	0	3,722	0	12		
TRAPELO RD	25+50.20	33+37.50	Rt.	429	0	0	46	12	717	269	55	227	23
TRAPELO RD	28+91.79	29+43.22	Lt.	0	0	0	0	0	0	0			
TRAPELO RD	29+96.47	34+55.63	Lt.	790	307	0	0	0	584	0	63	122	96
TRAPELO RD	33+49.00	34+77.27	Rt.	0	322	0	10	0	17	0	65		
TRAPELO RD	35+16.19	37+89.40	Rt.	0	275	0	0	0	475	0	20	12	140
CHURCH ST	00+42.67	03+96.30	Lt.	63	0	130	113	0	85	0	66	25	
CHURCH ST	01+03.25	03+91.00	Rt.	0	0	0	0	0	1,717	0	7		
LEXINGTON ST	03+89.76	04+44.00	Lt.	145	0	0	10	6	58	0	9		
LEXINGTON ST	03+22.20	04+56.35	Rt.	0	0	0	0	0	0	0	56	73	65
TRAPELO RD	35+03.79	40+89.89	Lt.	490	0	0	0	0	37	53	9	134	28
TRAPELO RD	38+55.02	41+50.00	Rt.	0	0	0	0	0	0	0	10		45
TRAPELO RD	41+17.57	43+33.04	Lt.	25	0	0	20	32	438	0	4	41	25
TRAPELO RD	43+50.98	48+38.55	Lt.	121	0	0	0	14	394	0	53	53	32
TRAPELO RD	41+92.27	46+00.35	Rt.	198	0	0	31	0	165	179	20	103	24
TRAPELO RD	46+03.97	50+43.27	Rt.	227	0	0	35	10	249	85	40	96	27
TRAPELO RD	50+68.98	55+34.38	Rt.	0	0	0	0	0	65	0	16	3	26
TRAPELO RD	48+70.70	53+19.10	Lt.	433	0	0	20	0	135	0	23	210	27
TRAPELO RD	53+45.48	56+11.74	Lt.	0	0	0	0	0	0	0	10		27
TRAPELO RD	56+32.55	66+74.69	Lt.	660	0	0	115	0	697	189	66	399	23
TRAPELO RD	55+73.92	58+26.56	Rt.	169	102	0	0	0	0	0	133		26
TRAPELO RD	58+59.60	60+54.50	Rt.	171	0	0	0	0	133	54	17	65	26
TRAPELO RD	60+87.65	71+26.04	Rt.	1,165	0	0	191	0	390	392	35	301	
TRAPELO RD	61+66.26	68+27.84	Cntr.	0	0	0	0	0	0	0			
TRAPELO RD	72+95.75	73+23.47	Cntr.	0	0	0	0	0	0	0			
TRAPELO RD	67+26.70	70+55.94	Lt.	1,310	0	0	0	0	0	0	6	204	
TRAPELO RD	70+72.16	70+98.97	Lt. Isl	0	0	0	0	0	0	0			
TRAPELO RD	70+62.78	73+77.48	Lt.	50	0	0	0	0	0	0	39	30	52
TRAPELO RD	74+07.12	86+46.90	Lt.	264	105	0	20	0	539	0	124	124	
HARRIET AVE	00+45.19	01+78.72	Rt.	0	0	0	0	0	79	0	18		53
HARRIET AVE	00+49.04	01+51.44	Lt.	0	272	0	0	0	950	0		55	
TRAPELO RD	71+66.42	73+37.63	Rt.	33	0	0	0	0	128	0	12	68	25
TRAPELO RD	73+60.96	75+48.67	Rt.	47	0	0	0	0	92	143	17	23	25
TRAPELO RD	75+77.87	77+70.45	Rt.	20	0	0	0	0	16	341	28	18	25
TRAPELO RD	77+94.01	84+16.17	Rt.	124	37	0	45	0	830	197	51	81	25
TRAPELO RD	83+29.48	83+68.93	Cntr.	0	0	0	0	0	0	0			
TRAPELO RD	84+43.73	87+79.07	Rt.	205	0	0	120	85	737	0	7	65	
TRAPELO RD	86+61.52	87+01.38	Lt.	0	0	0	0	0	0	0			
COMMON ST N	01+51.22	05+56.35	Lt.	0	0	0	0	0	0	0	20		68
COMMON ST N	00+66.67	05+15.28	Rt.	0	0	0	0	0	0	0	13		30

BSC GROUP, INC.
 15 ELKINS STREET
 BOSTON, MA 02127

TRAPELO ROAD AND BELMONT STREET
 BELMONT/WATERTOWN, MA

CALCULATED BY JGI,DJS,KDL,CLB
 CHECKED BY PJB
 3/1/12

COMMON ST S	00+43.95	04+05.96	Rt.	431	148	0	0	0	52	0	6	121	104
COMMON ST S	00+64.00	03+36.66	Lt.	618	0	0	0	0	0	0	17	116	
TRAPELO RD	87+37.93	87+77.10	Lt.	0	0	0	0	0	0	0	10		27
TRAPELO RD	88+04.14	92+89.51	Lt.	59	0	0	32	20	215	162	30	55	26
TRAPELO RD	93+13.69	96+57.40	Lt.	455	0	0	32	0	542	144	30	81	24
TRAPELO RD	96+98.08	100+21.36	Lt.	76	0	0	17	0	578	9	21	23	33
TRAPELO RD	88+36.51	100+15.32	Rt.	844	0	0	481	8	916	622	58	276	42
TRAPELO RD	89+93.40	90+17.35	Cntr.	0	0	0	0	0	0	0			
TRAPELO RD	92+01.01	92+30.37	Cntr.	0	0	0	0	0	0	0			
TRAPELO RD	94+79.58	95+32.29	Cntr.	0	0	0	0	0	0	0			
BELMONT ST	100+60.29	102+59.02	Rt.	0	0	0	0	0	0	0	7	22	33
BELMONT ST	102+87.40	115+45.38	Rt.	40	0	0	31	0	224	0	21	10	26
BELMONT ST	100+61.27	104+67.41	Lt.	103	0	0	16	0	675	0	35	4	33
BELMONT ST	104+96.78	113+05.52	Lt.	37	38	0	37	0	1,525	182	148	23	35
BELMONT ST	105+48.26	112+75.64	Cntr.	0	0	0	0	0	0	0			
BELMONT ST	113+45.73	115+16.49	Lt.	0	36	0	0	0	103	0	21		26
BELMONT ST	115+46.35	117+09.62	Lt.	20	0	0	0	0	424	0	12	9	26
BELMONT ST	117+36.83	119+18.78	Lt.	25	0	0	12	0	340	0	22	13	25
BELMONT ST	119+44.36	121+41.45	Lt.	0	0	0	0	0	0	0	8		26
BELMONT ST	115+72.25	117+78.88	Rt.	17	15	0	44	0	525	0	43	8	30
BELMONT ST	118+06.25	118+43.96	Rt.	0	0	0	84	0	810	0	15		
BELMONT ST	119+13.09	120+29.18	Rt.	0	0	0	0	0	1,173	0			
BELMONT ST	120+65.25	121+76.99	Rt.	177	24	0	26	0	266	126	25	45	65
BELMONT ST	122+10.11	124+09.49	Rt.	115	48	0	16	0	36	206	22	41	25
BELMONT ST	124+34.99	126+21.79	Rt.	87	0	0	46	0	204	0	22	43	25
BELMONT ST	126+44.23	128+40.34	Rt.	235	0	0	45	0	169	0	24	38	24
BELMONT ST	128+68.44	130+66.90	Rt.	75	60	0	0	0	422	0	33	19	24
BELMONT ST	130+93.89	135+44.00	Rt.	241	0	0	0	0	329	0	34	70	
BELMONT ST	121+67.40	123+54.63	Lt.	0	0	0	0	0	0	0	4		27
BELMONT ST	123+81.24	125+55.42	Lt.	614	0	0	0	0	0	0	10	122	26
BELMONT ST	125+81.53	127+48.90	Lt.	0	0	0	0	0	0	0	8		26
BELMONT ST	127+74.44	128+64.66	Lt.	0	0	0	138	0	112	0	14		26
BELMONT ST	128+87.86	130+80.77	Lt.	418	0	0	134	0	265	145	25	56	34
BELMONT ST	131+14.85	134+61.73	Lt.	113	0	0	10	0	294	0	43	55	43
BELMONT ST	135+17.64	135+63.11	Lt.	0	0	0	0	0	0	0	11	8	26
BELMONT ST	135+67.15	136+13.87	Rt.	0	0	0	0	0	314	0	6	43	68
BELMONT ST	136+43.33	141+72.73	Rt.	0	496	0	0	0	0	0	40	237	
BELMONT ST	142+04.65	144+23.25	Rt.	321	0	0	22	0	84	0	12	82	52
BELMONT ST	144+51.14	146+49.04	Rt.	93	0	93	38	0	282	0	28	23	24
BELMONT ST	146+74.88	147+30.15	Rt.	0	0	0	0	0	0	0	13		68
BELMONT ST	135+89.79	138+20.30	Lt.	264	0	0	11	14	310	0	37	64	34
BELMONT ST	138+54.34	140+66.77	Lt.	143	0	0	0	0	0	0	12	36	60
BELMONT ST	140+93.56	143+10.27	Lt.	38	0	0	15	0	86	0	21	7	26
BELMONT ST	143+37.67	146+03.00	Lt.	153	0	0	0	0	14	0	49	33	25
BELMONT ST	146+27.00	146+91.48	Lt.	0	0	0	0	0	0	0	10		
				13,086	2,285	258	2,081	563	27,678	3,674	2,148	4,440	2,278

PAVEMENT AREAS

Areas Calculated within AutoCAD design file

STREET	STATION		MICRO MILLING 2.25-3.5IN (SF)	MICRO MILLING 2.25IN (SF)	MICRO MILLING 2.25-1.75IN (SF)	MICRO MILLING 1.75IN (SF)	MICRO MILLING 0.5-1.75IN (SF)	MICRO MILLING 1.0IN (SF)	MICRO MILLING 0.5IN (SF)	WEDGE CUT 0-1IN (SF)	COLORED SCORED CEM CONC PAVEMENT (SF)	FULL DEPTH CONSTRUCTION (SF)	FULL DEPTH CONSTRUCTION < 4FT (SF)	STANDARD PAVEMENT OVERLAY (SF)	VARIABLE DEPTH OVERLAY (SF)	FULL DEPTH CONSTRUCTION < 4FT AREA 1 (CF)	FULL DEPTH CONSTRUCTION < 4FT AREA 2 (CF)	FULL DEPTH CONSTRUCTION < 4FT TOTAL (CF)
	START	END																
MILL ST	00+00.00	00+00.00																
TRAPELO RD	16+66.08	21+50.00		20,531	790	930												
TRAPELO RD	21+50.00	27+50.00		36,720						870								
TRAPELO RD	27+50.00	33+50.00		29,634														
TRAPELO RD	33+50.00	39+50.00	1,684	29,948														
TRAPELO RD	39+50.00	45+00.00		32,144						1,029								
TRAPELO RD	45+00.00	50+00.00		26,809						2,689		1,499						
TRAPELO RD	50+00.00	55+50.00		31,746						8,942								
TRAPELO RD	55+50.00	61+25.00		33,494						3,778								
TRAPELO RD	61+25.00	67+25.00		34,729						6,525	1,897	370						
TRAPELO RD	67+25.00	73+25.00		35,033						5,189	284	100						
TRAPELO RD	73+25.00	79+00.00		31,270						2,203	319	1,254						
TRAPELO RD	79+00.00	85+00.00		34,728						6,062	634	0						1,117
TRAPELO RD	85+00.00	90+50.00		32,010						4,044	235	759						4,566
TRAPELO RD	90+50.00	96+00.00		31,351						4,068	3,080	6,599						
TRAPELO RD	96+00.00	102+00.00		35,176						3,894	320	2,434						
BELMONT ST	102+00.00	107+50.00		33,027						3,433	234	5,143						
BELMONT ST	107+50.00	112+50.00		28,890						1,199	802	7,362						
BELMONT ST	112+50.00	118+00.00		30,161						1,588		4,152	73					15.49
BELMONT ST	118+00.00	123+50.00		30,148						1,279		955	0					91.66
BELMONT ST	123+50.00	129+00.00		34,154						3,109		0	0					72.14
BELMONT ST	129+00.00	134+00.00		29,161						3,883		0	180					41.27
BELMONT ST	134+00.00	139+50.00		32,438						3,403		0	13					125.61
BELMONT ST	139+50.00	145+25.00		33,271						4,067		0	0					93.78
BELMONT ST	145+25.00	147+15.00		10,372	680					387								
AGASSIZ ST																		
PLEASANT ST																		
MORAINES ST																		
LEXINGTON ST																		
CHRUCH ST																		
SHAW'S DRIVE																		
THAYER ST																		
WHITE ST N																		
WHITE ST S																		
WAVERLEY ST																		
SYCAMORE ST																		
HAWTHORNE ST																		
MAPLE ST																		
DAVIS ST																		
BEECH ST N																		
BEECH ST S																		
HULL ST																		
WALNUT ST																		
FLETT RD																		
SLADE ST																		
BARTLETT AVE																		
HARRIET AVE																		
HARDING AVE																		
GILBERT RD																		
BARNARD RD																		
POPLAR ST																		
WILLISTON RD																		
COMMON ST N																		
COMMON ST S																		
CUSHING AVE																		
WILLOW ST																		
OAK AVE																		
PINE ST																		
BELMONT ST																		
OAKLEY RD																		
PAYSON RD																		
VAN NESS RD																		
COMMONWEALTH RD																		
STULTS RD																		
CARVER RD																		
LEWIS RD																		
SCHOOL ST N																		
SCHOOL ST S																		
WINDSOR AVE																		
NEWTON ST																		
LANGDON AVE																		
WORCESTER ST																		
HILLSIDE RD																		
SPRINGFIELD ST																		
FALMOUTH ST																		
WESTLUND RD																		
WOODLEIGH RD																		
PARK RD																		
GROVE ST																		
MARION RD																		

STREET	STATION		MICRO MILLING 2.25-3.5IN (SF)	MICRO MILLING 2.25IN (SF)	MICRO MILLING 2.25- 1.75IN (SF)	MICRO MILLING 1.75IN (SF)	MICRO MILLING 0.5-1.75IN (SF)	MICRO MILLING 1.0IN (SF)	MICRO MILLING 0.5IN (SF)	WEDGE CUT 0-1IN (SF)	COLORED SCORED CEM CONC PAVEMENT (SF)	FULL DEPTH CONSTRUCTION (SF)	FULL DEPTH CONSTRUCTION < 4FT (SF)	STANDARD PAVEMENT OVERLAY (SF)	VARIABLE DEPTH OVERLAY (SF)	FULL DEPTH CONSTRUCTION < 4FT AREA 1 (CF)	FULL DEPTH CONSTRUCTION < 4FT AREA 2 (CF)	FULL DEPTH CONSTRUCTION < 4FT TOTAL (CF)
	START	END																
TEMPLETON PARKWAY																		
ARLINGTON ST								2,611	4,684			335	0	3,490	0	19.56		
MARLBORO ST									1,104				60	2,925				
OXFORD AVE						13,285								1,107				
PRENTISS ST							1,650							13,294				
EXETER ST									805					1,389				
KEENAN ST									1,495					829				
ERICSSON ST							703							1,594				
BRIMMER ST							1,130							706				
			1,684	736,945	1,470	53,425	33,314	56,197	86,866	74,720	8,357	70,319	326	837,389	46,515			61.40
	SF	SY																
MICRO MILLING (SF)	1,044,621	116069																
COLORED SCORED CEM CONC PAVEMENT (SF)	8,357	929																
FULL DEPTH CONSTRUCTION (SF)	70,319	7813																
FULL DEPTH CONSTRUCTION < 4FT (SF)	326	36																
FULL DEPTH CONSTRUCTION < 4FT (SF)	1,725	192																
Main Road OVERLAY (SF)	635,703	70634																
Side Road OVERLAY (SF)	201,686	22410																
VARIABLE DEPTH OVERLAY (SF)	46,515	5168																

CURB LENGTHS - EXISTING

VA = CONCRETE CURB TYPE VA
VB = GRANITE CURB TYPE VB

STREET	STATION		SIDE	STRAIGHT VA4			CURVED VA4			CURB CORNER VA4			CURB INLET STRAIGHT VA4		
	START	END		R&R	R,R&R	R&S	R&R	R,R&R	R&S	R&R	R,R&R	R&S	R&R	R,R&R	R&S
MILL ST	00+00.00	02+54.95	Rt.	218.0		28.0							1.0		
MILL ST	02+73.08	03+69.61	Rt.												
MILL ST	01+78.45	03+97.36	Lt.	0.0									2.0		
TRAPELO RD	16+66.08	18+74.17	Lt.	71.0			182.0						3.0		
TRAPELO RD	16+86.63	25+31.61	Rt.	730.0						7.0			1.0	1.0	
TRAPELO RD	19+25.02	28+54.50	Lt.	515.0	66.0				18.0	2.0			1.0		
TRAPELO RD	19+84.70	20+89.30	Cntr.		200.0				14.0						
TRAPELO RD	23+59.20	25+16.60	Cntr.		274.0	6.0			31.0						
TRAPELO RD	25+50.20	33+37.50	Rt.	503.0						16.0			2.0		
TRAPELO RD	28+91.79	29+43.22	Lt.		133.0			15.0							
TRAPELO RD	29+96.47	34+55.63	Lt.	277.0		86.0				4.0			2.0	1.0	
TRAPELO RD	33+49.00	34+77.27	Rt.	204.0			13.0		23.0	4.0			2.0	1.0	
TRAPELO RD	35+16.19	37+89.40	Rt.	158.0					80.0					2.0	
CHURCH ST	00+42.67	03+96.30	Lt.		320.0						2.0			1.0	
CHURCH ST	01+03.25	03+91.00	Rt.	655.0			9.0		197.0				2.0	1.0	
LEXINGTON ST	03+89.76	04+44.00	Lt.	28.0					24.0	1.0					
LEXINGTON ST	03+22.20	04+56.35	Rt.	78.0					32.0	1.0				1.0	
TRAPELO RD	35+03.79	40+89.89	Lt.	6.0	164.5				42.0		3.0	1.0		4.0	
TRAPELO RD	38+55.02	41+50.00	Rt.		270.0				70.0					1.0	
TRAPELO RD	41+17.57	43+33.04	Lt.	104.0	104.0				32.0		4.0		1.0		
TRAPELO RD	43+50.98	48+38.55	Lt.	395.0					17.0	6.0				1.0	
TRAPELO RD	41+92.27	46+00.35	Rt.	189.0	124.0				72.0					1.0	
TRAPELO RD	46+03.97	50+43.27	Rt.	297.0	15.0				20.0	5.0				2.0	
TRAPELO RD	50+68.98	55+34.38	Rt.	63.0	276.0				48.0	1.0	1.0				
TRAPELO RD	48+70.70	53+19.10	Lt.	235.0					35.0	7.0				2.0	
TRAPELO RD	53+45.48	56+11.74	Lt.		15.0				42.0						
TRAPELO RD	56+32.55	66+74.69	Lt.	478.0	90.0				105.0	18.0			2.0		
TRAPELO RD	55+73.92	58+26.56	Rt.		132.0				33.0		1.0	1.0		1.0	
TRAPELO RD	58+59.60	60+54.50	Rt.	108.0	20.0				20.0	3.0					
TRAPELO RD	60+87.65	71+26.04	Rt.	625.0	20.0				108.0	14.0			1.0		
TRAPELO RD	61+66.26	68+27.84	Cntr.												
TRAPELO RD	72+95.75	73+23.47	Cntr.												
TRAPELO RD	67+26.70	70+55.94	Lt.	214.0					19.0	6.0				1.0	
TRAPELO RD	70+72.16	70+98.97	Lt. Islnd												
TRAPELO RD	70+62.78	73+77.48	Lt.	175.0	5.0		50.0	23.0		5.0				2.0	
TRAPELO RD	74+07.12	86+46.90	Lt.	667.0	220.0			16.0	155.0	21.0			2.0	2.0	
HARRIET AVE	00+45.19	01+78.72	Rt.	19.0					55.0					1.0	
HARRIET AVE	00+49.04	01+51.44	Lt.	114.0					26.0						
TRAPELO RD	71+66.42	73+37.63	Rt.	78.0					46.0	2.0			2.0		
TRAPELO RD	73+60.96	75+48.67	Rt.	113.0	18.0				60.0	4.0					
TRAPELO RD	75+77.87	77+70.45	Rt.	128.0	20.0				65.0	2.0			1.0		
TRAPELO RD	77+94.01	84+16.17	Rt.	441.0	21.0				90.0	15.0			2.0		
TRAPELO RD	83+29.48	83+68.93	Cntr.												
TRAPELO RD	84+43.73	87+79.07	Rt.		82.0				38.0	3.0					
TRAPELO RD	86+61.52	87+01.38	Lt.						45.0						
COMMON ST N	01+51.22	05+56.35	Lt.		275.0				78.0				1.0	1.0	
COMMON ST N	00+66.67	05+15.28	Rt.	66.0	390.0					2.0			1.0	1.0	
COMMON ST S	00+43.95	04+05.96	Rt.	79.0	155.0				107.0	5.0				1.0	
COMMON ST S	00+64.00	03+36.66	Lt.	119.0					9.0					1.0	
TRAPELO RD	87+37.93	87+77.10	Lt.	20.0					34.0				1.0		
TRAPELO RD	88+04.14	92+89.51	Lt.	273.0	45.0				80.0	2.0			2.0	2.0	
TRAPELO RD	93+13.69	96+57.40	Lt.	76.0				58.0	33.0	1.0			1.0		
TRAPELO RD	96+98.08	100+21.36	Lt.	211.0					73.0	3.0					
TRAPELO RD	88+36.51	100+15.32	Rt.	596.0	71.0			38.0	89.0	14.0			2.0		
TRAPELO RD	89+93.40	90+17.35	Cntr.												
TRAPELO RD	92+01.01	92+30.37	Cntr.												
TRAPELO RD	94+79.58	95+32.29	Cntr.												
BELMONT ST	100+60.29	102+59.02	Rt.	131.0					73.0				1.0	1.0	
BELMONT ST	102+87.40	115+45.38	Rt.	470.0				9.0	58.0				1.0	1.0	
BELMONT ST	100+61.27	104+67.41	Lt.	217.0				19.0	93.0	8.0			1.0	1.0	
BELMONT ST	104+96.78	113+05.52	Lt.	605.0				22.0	96.0	9.0			1.0	1.0	
BELMONT ST	105+48.26	112+75.64	Cntr.												
BELMONT ST	113+45.73	115+16.49	Lt.	73.0					88.0	1.0					
BELMONT ST	115+46.35	117+09.62	Lt.	60.0					29.0	1.0			1.0		
BELMONT ST	117+36.83	119+18.78	Lt.	110.0					92.0						

STREET	STATION		SIDE	STRAIGHT VA4			CURVED VA4			CURB CORNER VA4			CURB INLET STRAIGHT VA4		
	START	END		R&R	R,R&R	R&S	R&R	R,R&R	R&S	R&R	R,R&R	R&S	R&R	R,R&R	R&S
BELMONT ST	119+44.36	121+41.45	Lt.	106.0	48.0			56.0	69.0	1.0				1.0	
BELMONT ST	115+72.25	117+78.88	Rt.	175.0					33.0					2.0	
BELMONT ST	118+06.25	118+43.96	Rt.	127.0	18.0				85.0				1.0	1.0	
BELMONT ST	119+13.09	120+29.18	Rt.	358.0					79.0					2.0	
BELMONT ST	120+65.25	121+76.99	Rt.	195.0						7.0					
BELMONT ST	122+10.11	124+09.49	Rt.	42.0						1.0			2.0		
BELMONT ST	124+34.99	126+21.79	Rt.											1.0	
BELMONT ST	126+44.23	128+40.34	Rt.						46.0				1.0	1.0	
BELMONT ST	128+68.44	130+66.90	Rt.			7.0			80.0				1.0	2.0	
BELMONT ST	130+93.89	135+44.00	Rt.			11.0			126.0					3.0	
BELMONT ST	121+67.40	123+54.63	Lt.											1.0	
BELMONT ST	123+81.24	125+55.42	Lt.		81.0				3.0		3.0				
BELMONT ST	125+81.53	127+48.90	Lt.		179.0				10.0					1.0	
BELMONT ST	127+74.44	128+64.66	Lt.	80.0						1.0					
BELMONT ST	128+87.86	130+80.77	Lt.	121.0									1.0		
BELMONT ST	131+14.85	134+61.73	Lt.	157.5	123.0				51.0	4.0					
BELMONT ST	135+17.64	135+63.11	Lt.	77.0					60.0						
BELMONT ST	135+67.15	136+13.87	Rt.	47.0	63.0			22.0		4.0				1.0	
BELMONT ST	136+43.33	141+72.73	Rt.	319.0					68.0	10.0			3.0	1.0	
BELMONT ST	142+04.65	144+23.25	Rt.	15.0	19.0				78.0	1.0	1.0	1.0	1.0	2.0	
BELMONT ST	144+51.14	146+49.04	Rt.						75.0					2.0	
BELMONT ST	146+74.88	147+30.15	Rt.	32.0					43.0						
BELMONT ST	135+89.79	138+20.30	Lt.	142.0					37.0						
BELMONT ST	138+54.34	140+66.77	Lt.		205.0	16.0									
BELMONT ST	140+93.56	143+10.27	Lt.		191.0				7.0						
BELMONT ST	143+37.67	146+03.00	Lt.	81.0	106.0										
BELMONT ST	146+27.00	146+91.48	Lt.	63.0											

SUBTOTAL VA:	13129.5	4558.5	154.0	369.0	163.0	3635.0	231.0	15.0	3.0	50.0	57.0	0.0
85% REUSABLE	11160.1	3874.7	130.9	313.7	138.6	3089.8	196.4	12.8	2.6	42.5	48.5	0.0
5% R&S	656.475	227.925	7.7	18.45	8.15	181.75	11.55	0.75	0.15	2.5	2.85	0
10% R&D	1312.95	455.85	15.4	36.9	16.3	363.5	23.1	1.5	0.3	5	5.7	0

CURB LENGTHS - PROPOSED

VA = CONCRETE CURB TYPE VA-4
VB = GRANITE CURB TYPE VB

STREET	STATION		SIDE	(NEW) LENGTH (LF) VB		LENGTH (LF) FROM RESET		LENGTH (LF) FROM RELOCATED & RESET		LENGTH (LF) VB WHEELCHAIR TRANS. CURB		6.5' GRANITE TRANSITION STONE (EA) STR.	GRANITE CURB INLET			CURB CORNER (EA)		
	START	END		STR.	CURV.	STR.	CURV.	STR.	CURV.	STR.	CURV.		RESET (EA)	RELOCATED & RESET (EA)	NEW (EA)	RESET	RELOCATE	NEW
													STR.	STR.	STR.	STR.	STR.	STR.
MILL ST	00+00.00	02+54.95	Rt.		28.0	190.0				6.5	14.0		1.0					
MILL ST	02+73.08	03+69.61	Rt.	50.0	6.5					16.0	24.0		1.0	2.0				
MILL ST	01+78.45	03+97.36	Lt.			0.0				0.0			0.0					
TRAPELO RD	16+66.08	18+74.17	Lt.			40.0	155.0			26.0	30.0		2.0					
TRAPELO RD	16+86.63	25+31.61	Rt.		37.6	647.0				52.0	8.0			2.0	1.0	6.0		
TRAPELO RD	19+25.02	28+54.50	Lt.	469.0	91.4	453.0				16.0			1.0		1.0			4.0
TRAPELO RD	25+50.20	33+37.50	Rt.			380.0				74.0	19.0		1.0	3.0		12.0		12.0
TRAPELO RD	28+91.79	29+43.22	Lt.	115.0	76.1													
TRAPELO RD	29+96.47	34+55.63	Lt.	6.5	24.0	302.0				20.5	50.0		1.0	1.0				
TRAPELO RD	33+49.00	34+77.27	Rt.	6.0		192.0	16.0			47.5	10.0		2.0			2.0		1.0
TRAPELO RD	35+16.19	37+89.40	Rt.		47.0	141.0	2.0				21.5			1.0				
CHURCH ST	00+42.67	03+96.30	Lt.	288.0						9.0	3.0				2.0			2.0
CHURCH ST	01+03.25	03+91.00	Rt.	5.0	29.0	650.0	27.0			41.0	88.0		4.0			1.0		
LEXINGTON ST	03+89.76	04+44.00	Lt.		9.0	15.0				6.8	12.0			1.0				
LEXINGTON ST	03+22.20	04+56.35	Rt.			37.0				54.0	16.0					1.0		
TRAPELO RD	35+03.79	40+89.89	Lt.	173.0	22.0					48.0	35.0				3.0			6.0
TRAPELO RD	38+55.02	41+50.00	Rt.	192.0	51.0					2.0	46.0				3.0			
TRAPELO RD	41+17.57	43+33.04	Lt.	4.0	65.0	185.0					28.0	1.0	1.0			2.0		
TRAPELO RD	43+50.98	48+38.55	Lt.	36.0	140.8	338.0	43.0			64.0	15.0				2.0	6.0		1.0
TRAPELO RD	41+92.27	46+00.35	Rt.	2.0	72.1	258.0				11.0	38.0		1.0		1.0		7.0	
TRAPELO RD	46+03.97	50+43.27	Rt.	79.0	83.4	167.0				55.0	14.0				1.0	2.0		4.0
TRAPELO RD	50+68.98	55+34.38	Rt.	360.0	15.0	49.0				13.5	45.0			1.0	1.0	1.0		1.0
TRAPELO RD	48+70.70	53+19.10	Lt.		42.0	246.0					33.0		1.0	1.0		7.0	2.0	2.0
TRAPELO RD	53+45.48	56+11.74	Lt.	229.0	30.0					9.0	35.0					2.0		1.0
TRAPELO RD	56+32.55	66+74.69	Lt.	173.5	78.0	418.0				9.5	62.5		2.0			15.0	4.0	3.0
TRAPELO RD	55+73.92	58+26.56	Rt.	115.0	17.0	7.0				9.8	42.0							5.0
TRAPELO RD	58+59.60	60+54.50	Rt.		5.0	82.0				30.0	24.0			1.0		2.0		2.0
TRAPELO RD	60+87.65	71+26.04	Rt.	54.5	51.0	570.0				51.5	63.0		1.0	1.0	1.0	6.0	4.0	2.0
TRAPELO RD	61+66.26	68+27.84	Cntr.	410.0	113.0													
TRAPELO RD	72+95.75	73+23.47	Cntr.	47.0	22.0													
TRAPELO RD	67+26.70	70+55.94	Lt.		34.3	201.0	51.0			19.0	14.0			1.0		2.0	2.0	1.0
TRAPELO RD	70+72.16	70+98.97	Lt. Island	13.0	10.0					22.5	18.0					2.0		
TRAPELO RD	70+62.78	73+77.48	Lt.	5.0	50.6	194.0	29.0			25.0	20.5		1.0		1.0	5.0	1.0	1.0
TRAPELO RD	74+07.12	86+46.90	Lt.	203.0	62.9	697.0	17.0			26.5	45.5		1.0	3.0		20.0	7.0	4.0
HARRIET AVE	00+45.19	01+78.72	Rt.	28.5	34.6	76.0				26.0	21.5			2.0				1.0
HARRIET AVE	00+49.04	01+51.44	Lt.		3.1	73.0				4.5	2.0						2.0	
TRAPELO RD	71+66.42	73+37.63	Rt.		19.0	84.0				22.0	35.0	1.0	1.0		1.0	2.0		
TRAPELO RD	73+60.96	75+48.67	Rt.	2.0	35.0	102.0				37.0	2.0			1.0		4.0		
TRAPELO RD	75+77.87	77+70.45	Rt.	16.0	38.0	122.0				34.0	2.0		1.0			2.0		
TRAPELO RD	77+94.01	84+16.17	Rt.	44.0	45.1	381.0				17.0	48.0	1.0		1.0	2.0	14.0		
TRAPELO RD	83+29.48	83+68.93	Cntr.	64.0	24.0													
TRAPELO RD	84+43.73	87+79.07	Rt.	66.0	64.0	112.0				6.5	36.5			1.0	1.0		1.0	2.0
TRAPELO RD	86+61.52	87+01.38	Lt.	96.0	32.9													
COMMON ST N	01+51.22	05+56.35	Lt.	275.0	15.0		17.0			6.0	44.0		1.0					
COMMON ST N	00+66.67	05+15.28	Rt.	350.0	8.0	24.0				7.0	33.0				1.0			2.0
COMMON ST S	00+43.95	04+05.96	Rt.	158.0	40.0	78.0				5.5	43.0	2.0				2.0		3.0
COMMON ST S	00+64.00	03+36.66	Lt.	4.0	4.0	122.0							1.0			8.0	2.0	1.0
TRAPELO RD	87+37.93	87+77.10	Lt.	3.5	50.3	32.0				18.0	7.5				1.0			
TRAPELO RD	88+04.14	92+89.51	Lt.	171.0	99.6	236.0				49.0	6.5		1.0	1.0	1.0	2.0	2.0	
TRAPELO RD	93+13.69	96+57.40	Lt.		25.5	72.0	30.0	123.0			34.5			1.0		3.0	5.0	
TRAPELO RD	96+98.08	100+21.36	Lt.		11.0	232.0				9.0	51.0			1.0		2.0		1.0
TRAPELO RD	88+36.51	100+15.32	Rt.	128.0	88.4	593.0				60.0	33.0	50.0	1.0	1.0		11.0	15.0	2.0
TRAPELO RD	89+83.40	90+17.35	Cntr.		25.0					40.0								
TRAPELO RD	92+01.01	92+30.37	Cntr.		25.0					42.0								
TRAPELO RD	94+79.58	95+32.29	Cntr.		25.0					90.0								
BELMONT ST	100+60.29	102+59.02	Rt.		11.0	145.0				9.0	18.0			1.0				
BELMONT ST	102+87.40	115+45.38	Rt.	44.0	230.0	381.0	1.0	652.0		25.0	37.0	1.0		3.0	2.0		2.0	
BELMONT ST	100+61.27	104+67.41	Lt.	2.8	20.0	260.0	20.0				43.0		1.0		2.0		5.0	1.0
BELMONT ST	104+96.78	113+05.52	Lt.		89.3	560.0	25.0			3.0	35.0			3.0		8.0	6.0	
BELMONT ST	105+48.26	112+75.64	Cntr.		85.6			1360.0										
BELMONT ST	113+45.73	115+16.49	Lt.	14.0	77.3	52.0				16.0	35.0	1.0		1.0	1.0		2.0	
BELMONT ST	115+46.35	117+09.62	Lt.	6.5	28.1	113.0	11.0			5.5	33.0	1.0	1.0		1.0			
BELMONT ST	117+36.83	119+18.78	Lt.		21.0	33.0	10.0	79.0		5.5	35.5			2.0	1.0		2.0	1.0
BELMONT ST	119+44.36	121+41.45	Lt.	59.0	32.0	82.0	27.0			26.5	37.0		1.0	1.0			1.0	
BELMONT ST	115+72.25	117+78.88	Rt.	12.0	25.5	130.0				6.5	26.0	2.0	1.0				4.0	
BELMONT ST	118+06.25	118+43.96	Rt.	27.0	44.6	117.0					36.0	1.0	2.0		1.0			
BELMONT ST	119+13.09	120+29.18	Rt.		5.0	399.0				37.0	11.0		1.0					
BELMONT ST	120+65.25	121+78.99	Rt.	16.0		135.0				40.5	4.5	1.0		2.0		5.0	1.0	1.0
BELMONT ST	122+10.11	124+09.49	Rt.	109.0						44.0	14.0	1.0						6.0
BELMONT ST	124+34.99	126+21.79	Rt.	77.0	10.0					34.0	27.0	2.0			1.0			4.0
BELMONT ST	126+44.23	128+40.34	Rt.	133.0	17.0					22.0	21.0	2.0			1.0			2.0
BELMONT ST	128+68.44	130+66.90	Rt.	71.0	42.0					31.5	25.0	2.0			2.0			4.0
BELMONT ST	130+93.89	135+44.00	Rt.	258.0	69.0			72.0		45.5	34.0	2.0	1.0		3.0			5.0
BELMONT ST	121+67.40	123+54.63	Lt.	140.0	25.5			58.0		20.0	40.0				2.0		1.0	
BELMONT ST	123+81.24	125+55.42	Lt.	92.0						26.0	14.0	1.0			2.0			6.0
BELMONT ST	125+81.53	127+48.90	Lt.	138.0						34.0	14.0	2.0			3.0			
BELMONT ST	127+74.44	128+64.66	Lt.	9.0		55.0				27.0	19.0	2.0			2.0			
BELMONT ST	128+87.86	130+80.77	Lt.	9.0	24.5	98.0				36.0	21.5	1.0					2.0	1.0
BELMONT ST	131+14.85	134+61.73	Lt.	141.0	48.0	113.0				18.0	26.0	2.0			1.0	2.0	2.0	4.0
BELMONT ST	135+17.64	135+63.11	Lt.	15.5	22.5	62.0				84.5	20.0						1.0	
BELMONT ST	135+67.15	136+13.87	Rt.		18.0	47.0		72.0		15.0	19.0	1.0				3.0		1.0
BELMONT ST	136+43.33	141+72.73	Rt.	18.0	51.5	314.0				10.0	11.5		3.0	2.0	1.0	11.0	2.0	1.0
BELMONT ST	142+04.65	144+23.25	Rt.	17.0	35.0	34.0		71.0		5.0	31.5	1.0	1.0		1.0	2.0	2.0	1.0
BELMONT ST	144+51.14	146+49.04	Rt.	31.0	36.0			89.0		10.5	38.0	1.0				3.0		

STREET	STATION			(NEW) LENGTH (LF) VB		LENGTH (LF) FROM RESET		LENGTH (LF) FROM RELOCATED & RESET		LENGTH (LF) VB WHEELCHAIR TRANS. CURB		6.5' GRANITE TRANSITION STONE (EA)	GRANITE CURB INLET			CURB CORNER (EA)		
	START	END	SIDE	STR.	CURV.	STR.	CURV.	STR.	CURV.	STR.	CURV.	STR.	RESET (EA)	RELOCATED & RESET (EA)	NEW (EA)	RESET	RELOCATE	NEW
													STR.	STR.	STR.	STR.	STR.	STR.
	SUBTOTAL VB:			6335.3	3146.6					1725.1	2191.5	41.0						104.0
	Existing Curb					11160.1	313.65	3874.725	138.55					42.5	48.45			
	Total Curb that can be used					1001.9	0.0	1066.7	138.6					-0.5	0.4			
	TAKE AWAY CURB NEEDED FOR RESET							1001.9							-0.5			
	TOTAL CURB LEFT FOR RELOCATION							64.8							-0.1			
	TOTAL LENGTH OF CURB FOR SEALER:																	
				CURB	28849.4													
				TRANSITION STONE	266.5													
				CURB INLET	864.3													
				CURB CORNER	1186.92													
				TOTAL	31167.1													

EARTHWORKS

Street	Station	Distance (LF)	Cut			Fill			Rock			Special Borrow		
			End Area (SF)	Avg. End Area (SF)	Vol. (CF)	End Area (SF)	Avg. End Area (SF)	Vol. (CF)	End Area (SF)	Avg. End Area (SF)	Vol. (CF)	End Area (SF)	Avg. End Area (SF)	Vol. (CF)
MILL STREET	2+50	0	0.00	-	-	0.00	-	-	0.00	-	-	0.00	-	-
MILL STREET	2+00	50	2.54	2.54	127.00	2.98	2.98	149.00	0.00	0.00	0.00	0.00	0.00	0.00
MILL STREET	1+50	50	4.00	3.27	163.50	1.68	2.33	116.50	0.00	0.00	0.00	0.00	0.00	0.00
MILL STREET	1+00	50	12.68	8.34	417.00	1.65	1.67	83.25	0.00	0.00	0.00	0.00	0.00	0.00
MILL STREET	0+50	50	19.68	16.18	809.00	0.00	0.83	41.25	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	19+50	50	0.00	9.84	492.00	1.20	0.60	30.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	20+00	50	31.55	15.78	788.75	1.00	1.10	55.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	20+50	50	28.52	30.04	1501.75	0.00	0.50	25.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	21+00	50	14.99	21.76	1087.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	21+50	50	65.95	40.47	2023.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	22+00	50	82.24	74.10	3704.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TRAPELO RD	22+50	50	99.19	90.72	4535.75	0.00	0.00	0.00	51.28	25.64	1282.00	14.43	7.22	360.75
TRAPELO RD	23+00	50	59.37	79.28	3964.00	0.00	0.00	0.00	86.34	68.81	3440.50	13.63	14.03	701.50
TRAPELO RD	23+50	50	14.20	36.79	1839.25	0.00	0.00	0.00	159.28	122.81	6140.50	13.83	13.73	686.50

Total Cut for Roadway (CF):	21454.00	Total Fill for Roadway (CF):	500.00	Total Rock for Roadway (CF):	10863.00	Total Special Borrow for Roadway (CF):	1748.75
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TOTAL	20954.0	CF
TOTAL	776.1	CY

MASTER PLANT LIST

<u>TYPE</u>	<u>ITEM #</u>	<u>SYMBOL TO ITEM NAME</u>	<u>UNITS</u>
PR	ITEM 773.238	PINE - RED 8-9 FEET HEIGHT	EACH
PS	ITEM 773.436	PINE - WHITE 5-6 FEET HEIGHT	EACH
FP	ITEM 775.004	ASH - GREEN 2-2.5 INCH CALIPER	EACH
FG	ITEM 775.018	BEECH - RIVERS PURPLE 2-2.5 INCH CALIPER	EACH
UA	ITEM 775.028	ELM-AMERICAN-'VALLEY FORGE' 2-2.5 INCH CALIPER	EACH
CF	ITEM 775.054	HORNBEAM FASTIGIATE 2-2.5 INCH CALIPER	EACH
SJ	ITEM 775.061	PAGODA TREE 'REGENT' 2-2.5 INCH CALIPER	EACH
TC	ITEM 775.148	LINDEN - LITTLE LEAF - 'GREENSPIRE' 2-2.5 INCH CALIPER	EACH
GT	ITEM 775.437	LOCUST - HONEY - 'SKYLINE' 2-2.5 INCH CALIPER	EACH
AC	ITEM 776.042	MAPLE - HEDGE 1.5-2 INCH CALIPER	EACH
AA	ITEM 776.523	MAPLE - RED 'ARMSTRONG' 2-2.5 INCH CALIPER	EACH
AR	ITEM 776.543	MAPLE - RED 'OCTOBER GLORY' 2-2.5 INCH CALIPER	EACH
QR	ITEM 777.036	OAK - NORTHERN RED 2-2.5 INCH CALIPER	EACH
QP	ITEM 777.142	OAK - PIN GREEN PILLAR 2-2.5 INCH CALIPER	EACH
QF	ITEM 777.164	OAK - PYRAMIDAL ENGLISH 2-2.5 INCH CALIPER	EACH
QC	ITEM 777.241	OAK - SCARLET 2-2.5 INCH CALIPER	EACH
QA	ITEM 777.331	OAK - WHITE 2-2.5 INCH CALIPER	EACH
PA	ITEM 777.542	PLANETREE - LONDON 2-2.5 INCH CALIPER	EACH
MA	ITEM 778.412	CRABAPPLE - 'ADIRONDACK' 1.5-2 INCH CALIPER	EACH
GB	ITEM 781.152	GINKGO - BILOBA 2-2.5 INCH CALIPER	EACH
GF	ITEM 781.155	GINKGO - BILOBA 'FASTIGIATA' 2-2.5 INCH CALIPER	EACH
SR	ITEM 781.578	LILAC TREE - JAPANESE 1.5-2 INCH CALIPER	EACH
SA	ITEM 782.252	MOUNTAIN ASH - KOREAN - PYRAMIDAL 1.5-2 INCH CALIPER	EACH
PC	ITEM 782.423	PEAR - CALLERY - 'CHANTICLEER' 2-2.5 INCH CALIPER	EACH
IG	ITEM 785.643	INKBERRY - DENSA 2-3 FEET HEIGHT	EACH
JS	ITEM 786.461	JUNIPER - SARGENT'S 15-18 INCH SPREAD	EACH
JG	ITEM 786.471	JUNIPER - 'SEA GREEN' 18-24 INCH HEIGHT	EACH
TB	ITEM 787.262	YEW - SPREADING ENGLISH 15-18 INCH SPREAD	EACH
TH	ITEM 787.245	YEW - HICKS 30-36 INCH	EACH
FO	ITEM 791.251	FORSYTHIA - 'ARNOLD DWARF' 15-24 INCH	EACH
LI	ITEM 793.331	PRIVET - REGAL 18-24 INCH	EACH
AU	ITEM 796.011	BEAR BERRY 2 GALLON	EACH
PH	ITEM 796.423	DWARF FOUNTAIN GRASS - 'HAMELN' 1 GALLON	EACH

<u>STREET</u>	<u>STATION</u>	<u>SIDE</u>	<u>TYPE</u>	<u>QTY.</u>
<u>STREET</u>	<u>STA#00</u>	<u>STA+#OFFSE</u>	<u>SYM</u>	<u>QTY.</u>
GROVE ST.	0	+	58 RT	AA 1
LEXINGTON	1	+	28 RT	AA 1
TRAPELO RD.	40	+	26 RT	AA 1
TRAPELO RD.	40	+	72 RT	AA 1
TRAPELO RD.	42	+	35 RT	AA 1
TRAPELO RD.	42	+	56 RT	AA 1
TRAPELO RD.	42	+	77 RT	AA 1
TRAPELO RD.	43	+	24 RT	AA 1
TRAPELO RD.	122	+	64 LT	AA 1
TRAPELO RD.	123	+	0 LT	AA 1
TRAPELO RD.	123	+	38 RT	AA 1
TRAPELO RD.	123	+	77 RT	AA 1
TRAPELO RD.	124	+	72 RT	AA 1
TRAPELO RD.	126	+	40 LT	AA 1
TRAPELO RD.	126	+	69 LT	AA 1
TRAPELO RD.	127	+	71 RT	AA 1
TOTAL				16 EA
TRAPELO RD.	65	+	96	AC 1
TRAPELO RD.	66	+	6	AC 1
TRAPELO RD.	67	+	93 LT	AC 1
TRAPELO RD.	68	+	8 LT	AC 1
TOTAL				4 EA
SCHOOL ST.	0	+	90 LT	AR 1
SCHOOL ST.	1	+	45 LT	AR 1
SCHOOL ST.	1	+	LT	AR 1
SCHOOL ST.	1	+	80 LT	AR 1
TEMPLETON PKW.	0	+	76 LT	AR 1
TEMPLETON PKW.	1	+	4 LT	AR 1
TEMPLETON PKW.	1	+	12 RT	AR 1
TEMPLETON PKW.	1	+	32 LT	AR 1
TEMPLETON PKW.	1	+	51 RT	AR 1
TRAPELO RD.	116	+	50 RT	AR 1
TRAPELO RD.	116	+	58 LT	AR 1
TRAPELO RD.	117	+	74 RT	AR 1
TRAPELO RD.	117	+	80 LT	AR 1
TRAPELO RD.	118	+	7 RT	AR 1
TRAPELO RD.	118	+	30 RT	AR 1
TRAPELO RD.	118	+	61 RT	AR 1
TRAPELO RD.	118	+	85 LT	AR 1
TRAPELO RD.	125	+	1 RT	AR 1
TRAPELO RD.	126	+	62 RT	AR 1
TRAPELO RD.	127	+	13 LT	AR 1
TRAPELO RD.	128	+	3 LT	AR 1

STREET	STATION		SIDE	TYPE	QTY.	
	STA#00	STA+#0FFSE'				
TRAPELO RD.	128	+	94	RT	AR	1
TRAPELO RD.	129	+	16	LT	AR	1
TRAPELO RD.	129	+	93	RT	AR	1
TRAPELO RD.	130	+	33	RT	AR	1
TRAPELO RD.	130	+	52	LT	AR	1
TRAPELO RD.	131	+	11	RT	AR	1
TRAPELO RD.	133	+	5	LT	AR	1
TRAPELO RD.	133	+	48	LT	AR	1
TRAPELO RD.	134	+	10	LT	AR	1
TRAPELO RD.	136	+	86	RT	AR	1
TRAPELO RD.	137	+	52	RT	AR	1
				TOTAL	32	EA
TRAPELO RD.	88	+	17	9, LT	AU	9
				TOTAL	9	EA
TRAPELO RD.	91	+	91	RT	CF	1
TRAPELO RD.	92	+	9	RT	CF	1
TRAPELO RD.	92	+	86	LT	CF	1
TRAPELO RD.	93	+	99	LT	CF	1
TRAPELO RD.	94	+	32	LT	CF	1
TRAPELO RD.	96	+	73	RT	CF	1
TRAPELO RD.	98	+	34	RT	CF	1
TRAPELO RD.	104	+	24	LT	CF	1
TRAPELO RD.	109	+	3	LT	CF	1
TRAPELO RD.	111	+	39	LT	CF	1
TRAPELO RD.	133	+		RT	CF	1
TRAPELO RD.	134	+		RT	CF	1
TRAPELO RD.	134	+		RT	CF	1
				TOTAL	13	EA
TRAPELO RD.	101	+	14	RT	FG	1
				TOTAL	1	EA
ARLINGTON ST.	1	+	53	1, RT	FO	1
				TOTAL	1	EA
BARTLET AVE.	0	+	57	LT	FP	1
BARTLET AVE.	0	+	83	RT	FP	1
BARTLET AVE.	0	+	87	LT	FP	1
BARTLET AVE.	1	+	10	RT	FP	1
				TOTAL	4	EA
TRAPELO RD.	61	+	69	RT	GB	1
TRAPELO RD.	61	+	99	LT	GB	1
TRAPELO RD.	62	+	91	LT	GB	1
TRAPELO RD.	63	+	50	MED	GB	1
TRAPELO RD.	63	+	57	RT	GB	1
TRAPELO RD.	64	+	14	RT	GB	1
TRAPELO RD.	64	+	55	RT	GB	1
TRAPELO RD.	64	+	92	RT	GB	1
TRAPELO RD.	65	+	18	RT	GB	1
TRAPELO RD.	66	+	26	LT	GB	1
TRAPELO RD.	67	+	34	LT	GB	1
TRAPELO RD.	67	+	60	MED	GB	1
TRAPELO RD.	67	+	65	LT	GB	1
TRAPELO RD.	67	+	86	MED	GB	1
TRAPELO RD.	68	+	14	MED	GB	1
TRAPELO RD.	68	+	94		GB	1
TRAPELO RD.	69	+	50		GB	1
TRAPELO RD.	69	+	77		GB	1
TRAPELO RD.	70	+	11		GB	1
TRAPELO RD.	70	+	49		GB	1
TRAPELO RD.	70	+	79		GB	1
TRAPELO RD.	72	+	30	LT	GB	1
TRAPELO RD.	72	+	85	LT	GB	1
TRAPELO RD.	72	+	97	MED	GB	1
TRAPELO RD.	73	+	32	LT	GB	1
TRAPELO RD.					GB	1
				TOTAL	26	EA
TRAPELO RD.	62	+	19	RT	GF	1
TRAPELO RD.	62	+	53	RT	GF	1
TRAPELO RD.	61	+	94	RT	GF	1
TRAPELO RD.	72	+	97	RT	GF	1
				TOTAL	4	EA
CHURCH ST.	0	+	94	LT	GT	1
CHURCH ST.	1	+	69	RT	GT	1
CHURCH ST.	1	+	95	RT	GT	1
CHURCH ST.	2	+	21	RT	GT	1
CHURCH ST.	2	+	45	LT	GT	1
CHURCH ST.	22	+	47	RT	GT	1
N. COMMON ST.	0	+	99	MED	GT	1
N. COMMON ST.	1	+	17	RT	GT	1

STREET	STATION	SIDE	TYPE	QTY.
STREET	STA#00	STA+#+OFFSE	SYM	QTY.
N. COMMON ST.	1	+	54 RT	GT 1
N. COMMON ST.	1	+	79 LT	GT 1
N. COMMON ST.	2	+	6 LT	GT 1
N. COMMON ST.	3	+	26 RT	GT 1
N. COMMON ST.	3	+	53 RT	GT 1
N. COMMON ST.	3	+	80 RT	GT 1
S. COMMON ST.	1	+	12 LT	GT 1
S. COMMON ST.	1	+	92 LT	GT 1
S. COMMON ST.	1	+	94 RT	GT 1
S. COMMON ST.	2	+	24 RT	GT 1
S. COMMON ST.	2	+	30 LT	GT 1
S. COMMON ST.	2	+	59 LT	GT 1
S. COMMON ST.	3	+	23 LT	GT 1
S. COMMON ST.	3	+	50 RT	GT 1
TRAPELO RD.	3	+	0 RT	GT 1
TRAPELO RD.	88	+	18 LT	GT 1
TOTAL				24 EA
TRAPELO RD.	62	+	0 RT-12	IG 12
TRAPELO RD.	62	+	50 RT-4	IG 4
TRAPELO RD.	87	+	60 9,LT	IG 9
TRAPELO RD.	66	+	65 4,LT	IG 3
TRAPELO RD.	99	+	91 13,RT	IG 13
TOTAL				41 EA
TRAPELO RD.	86	+	80 8, MED	JG 8
TOTAL				8 EA
TRAPELO RD.	87	+	24 6,RT	JS 6
TRAPELO RD.	87	+	60 2,LT	JS 2
TOTAL				8 EA
ARLINGTON ST.	2	+	80 RT	LI 4
TOTAL				4 EA
TRAPELO RD.	42	+	84 LT	MA 1
TRAPELO RD.	43	+	1 LT	MA 1
TRAPELO RD.	89	+	15 RT	MA 1
TRAPELO RD.	89	+	26 RT	MA 1
TRAPELO RD.	113	+	0 LT	MA 1
TOTAL				5 EA
CHURCH ST.	1	+	21 RT	PA 1
CHURCH ST.	1	+	59 RT	PA 1
CHURCH ST.	1	+	94 RT	PA 1
CHURCH ST.	2	+	31 RT	PA 1
CHURCH ST.	2	+	67 RT	PA 1
CHURCH ST.	3	+	2 RT	PA 1
TRAPELO RD.	31	+	92 LT	PA 1
TRAPELO RD.	32	+	17 RT	PA 1
TRAPELO RD.	33	+	13	PA 1
TRAPELO RD.	33	+	27 RT	PA 1
TRAPELO RD.	33	+	57 RT	PA 1
TOTAL				11 EA
N. COMMON ST.	2	+	4 RT	PC 1
N. COMMON ST.	2	+	39 LT	PC 1
N. COMMON ST.	2	+	53 RT	PC 1
N. COMMON ST.	2	+	65 RT	PC 1
N. COMMON ST.	2	+	84 LT	PC 1
N. COMMON ST.	3	+	25 LT	PC 1
S. COMMON ST.	0	+	74 RT	PC 1
S. COMMON ST.	1	+	12 RT	PC 1
TRAPELO RD.	2	+	16 RT	PC 1
TRAPELO RD.	84	+	96 LT	PC 1
TRAPELO RD.	85	+	25 LT	PC 1
TRAPELO RD.	85	+	57 LT	PC 1
TRAPELO RD.	85	+	88 LT	PC 1
TRAPELO RD.	90	+	47 RT	PC 1
TOTAL				14 EA
TRAPELO RD.	88	+	17 14,LT	PH 14
TRAPELO RD.	87	+	24 20,RT	PH 20
TRAPELO RD.	87	+	60 12,LT	PH 12
TRAPELO RD.	87	+	60 16,LT	PH 16
TOTAL				62 EA
TRAPELO RD.	19	+	67 LT	PS 1
TRAPELO RD.	20	+	4 LT	PS 1
TOTAL				2 EA
TRAPELO RD.	23	+	29 LT	PR 1
TRAPELO RD.	22	+	35 LT	PR 1
TRAPELO RD.	21	+	42 LT	PR 1
TRAPELO RD.	21	+	57 LT	PR 1

STREET	STATION		SIDE	TYPE	QTY.	
	STA#00	STA+##0FFSE'				
TRAPELO RD.	23	+	63	LT	PR	1
TRAPELO RD.	22	+	66	LT	PR	1
TRAPELO RD.	22	+	0	LT	PR	1
TRAPELO RD.	22	+	97	LT	PR	1
				TOTAL		8 EA
MILL ST.	0	+	90	RT	QA	1
MILL ST.	1	+	18	RT	QA	1
MILL ST.	1	+	43	RT	QA	1
MILL ST.	1	+	68	RT	QA	1
TRAPELO RD.	19	+	34	LT	QA	1
				TOTAL		5 EA
TRAPELO RD.	75	+	3	RT	QC	1
TRAPELO RD.	76	+	42	LT	QC	1
TRAPELO RD.	76	+	76	RT	QC	1
TRAPELO RD.	77	+	12	LT	QC	1
TRAPELO RD.	77	+	88	LT	QC	1
TRAPELO RD.	78	+	48	LT	QC	1
TRAPELO RD.	78	+	85	RT	QC	1
TRAPELO RD.	78	+	91	LT	QC	1
TRAPELO RD.	79	+	14	RT	QC	1
TRAPELO RD.	79	+	55	LT	QC	1
TRAPELO RD.	79	+	75	RT	QC	1
TRAPELO RD.	80	+	10	LT	QC	1
TRAPELO RD.	80	+	12	RT	QC	1
TRAPELO RD.	80	+	41	RT	QC	1
TRAPELO RD.	80	+	68	LT	QC	1
TRAPELO RD.	81	+	43	LT	QC	1
TRAPELO RD.	81	+	66	RT	QC	1
TRAPELO RD.	81	+	83	LT	QC	1
TRAPELO RD.	82	+	29	LT	QC	1
TRAPELO RD.	82	+	94	LT	QC	1
TRAPELO RD.	83	+	35	MED	QC	1
TRAPELO RD.	83	+	62	MED	QC	1
TRAPELO RD.	84	+	29	LT	QC	1
TRAPELO RD.	137	+	93	LT	QC	1
TRAPELO RD.	142	+	61	LT	QC	1
TRAPELO RD.	142	+	91	RT	QC	1
TRAPELO RD.	143	+	85	RT	QC	1
TRAPELO RD.	144	+	62	RT	QC	1
TRAPELO RD.	145	+	9	RT	QC	1
TRAPELO RD.	145	+	17	LT	QC	1
TRAPELO RD.	145	+	77	LT	QC	1
TRAPELO RD.	146	+	28	RT	QC	1
				TOTAL		32 EA
TRAPELO RD.	46	+	7	LT	QF	1
TRAPELO RD.	57	+	7	LT	QF	1
TRAPELO RD.	55	+	8	LT	QF	1
TRAPELO RD.	60	+	11	LT	QF	1
TRAPELO RD.	54	+	15	LT	QF	1
TRAPELO RD.	60	+	24	RT	QF	1
TRAPELO RD.	51	+	33	LT	QF	1
TRAPELO RD.	46	+	40	LT	QF	1
TRAPELO RD.	47	+	40	LT	QF	1
TRAPELO RD.	54	+	46	LT	QF	1
TRAPELO RD.	55	+	46	LT	QF	1
TRAPELO RD.	45	+	48	LT	QF	1
TRAPELO RD.	60	+	48	LT	QF	1
TRAPELO RD.	54	+	52	RT	QF	1
TRAPELO RD.	59	+	56	RT	QF	1
TRAPELO RD.	53	+	61	RT	QF	1
TRAPELO RD.	46	+	67	LT	QF	1
TRAPELO RD.	54	+	70	RT	QF	1
TRAPELO RD.	54	+	77	LT	QF	1
TRAPELO RD.	53	+	84	LT	QF	1
TRAPELO RD.	53	+	84	RT	QF	1
TRAPELO RD.	56	+	86	LT	QF	1
				TOTAL		22 EA
TRAPELO RD.	75	+	27	LT	QP	1
TRAPELO RD.	82	+	7	RT	QP	1
TRAPELO RD.	82	+	51	RT	QP	1
TRAPELO RD.	82	+	83	RT	QP	1
TRAPELO RD.	137	+	87	RT	QP	1
TRAPELO RD.	138	+	51	RT	QP	1
TRAPELO RD.	138	+	78	RT	QP	1
TRAPELO RD.	139	+	13	RT	QP	1
TRAPELO RD.	139	+	44	RT	QP	1
TRAPELO RD.	141	+	68	RT	QP	1
TRAPELO RD.	143	+	67	LT	QP	1
TRAPELO RD.	143	+	93	LT	QP	1
TRAPELO RD.	144	+	18	LT	QP	1
TRAPELO RD.	145	+	59	RT	QP	1

STREET	STATION		SIDE	TYPE	SYM	QTY.	EA
	STA#00	STA+#0FFSE					
TRAPELO RD.	21	+	24	LT	QR	1	
TRAPELO RD.	22	+	19	LT	QR	1	
TRAPELO RD.	22	+	51	LT	QR	1	
TRAPELO RD.	22	+	81	LT	QR	1	
TRAPELO RD.	23	+	13	LT	QR	1	
TRAPELO RD.	23	+	45	LT	QR	1	
TRAPELO RD.	99	+	65	RT	QR	1	
TRAPELO RD.	99	+	86	RT	QR	1	
				TOTAL		8	EA
CHURCH ST.	3	+	6	LT	SA	1	
CHURCH ST.	3	+	38	LT	SA	1	
CHURCH ST.	3	+	68	LT	SA	1	
LEXINGTON ST.	0	+	79	RT	SA	1	
				TOTAL		4	EA
LEXINGTON ST.	0	+	57	MED	SJ	1	
LEXINGTON ST.	0	+	75	MED	SJ	1	
TRAPELO RD.	34	+	26	MED	SJ	1	
				TOTAL		3	EA
TRAPELO RD.	133	+	17	RT	CC	1	
TRAPELO RD.	134	+	27	RT	CC	1	
TRAPELO RD.	134	+	87	RT	CC	1	
				TOTAL		3	EA
TRAPELO RD.	140	+	32	RT	SR	1	
TRAPELO RD.	125	+	41	LT	SR	1	
TRAPELO RD.	140	+	49	RT	SR	1	
TRAPELO RD.	139	+	51	LT	SR	1	
TRAPELO RD.	124	+	98	LT	SR	1	
				TOTAL		5	EA
TRAPELO RD.	88	+	17	4,LT	TB	4	
TRAPELO RD.	86	+	60	9,LT	TB	9	
				TOTAL		13	EA
TRAPELO RD.	84	+	22	RT	TC	1	
TRAPELO RD.	84	+	60	RT	TC	1	
TRAPELO RD.	84	+	89	RT	TC	1	
TRAPELO RD.	84	+	94	RT	TC	1	
TRAPELO RD.	90	+	76	RT	TC	1	
TRAPELO RD.	91	+	3	RT	TC	1	
TRAPELO RD.	91	+	28	RT	TC	1	
TRAPELO RD.	91	+	78	LT	TC	1	
TRAPELO RD.	92	+	26	LT	TC	1	
TRAPELO RD.	92	+	29	RT	TC	1	
TRAPELO RD.	92	+	54	LT	TC	1	
TRAPELO RD.	92	+	54	RT	TC	1	
TRAPELO RD.	93	+	18	LT	TC	1	
TRAPELO RD.	93	+	43	LT	TC	1	
TRAPELO RD.	93	+	84	RT	TC	1	
TRAPELO RD.	94	+	39	RT	TC	1	
TRAPELO RD.	94	+	60	LT	TC	1	
TRAPELO RD.	94	+	85	RT	TC	1	
TRAPELO RD.	94	+	90	MED	TC	1	
TRAPELO RD.	95	+	22	MED	TC	1	
TRAPELO RD.	97	+	1		TC	1	
TRAPELO RD.	97	+	25		TC	1	
TRAPELO RD.	97	+	26	RT	TC	1	
TRAPELO RD.	98	+	39		TC	1	
TRAPELO RD.	99	+	34		TC	1	
				TOTAL		25	EA
TRAPELO RD.	122	+	21	8,RT	TH	8	
				TOTAL		8	EA
PLEASEANT ST.	0	+	23	LT	UA	1	
PLEASEANT ST.	0	+	49	LT	UA	1	
PLEASEANT ST.	0	+	75	LT	UA	1	
TRAPELO RD.	18	+	17	MED	UA	1	
TRAPELO RD.	18	+	56	RT	UA	1	
TRAPELO RD.	19	+	1		UA	1	
TRAPELO RD.	19	+	90	RT	UA	1	
TRAPELO RD.	20	+	17	RT	UA	1	
TRAPELO RD.	20	+	44	RT	UA	1	
TRAPELO RD.	20	+	71	RT	UA	1	
TRAPELO RD.	23	+	19		UA	1	
TRAPELO RD.	24	+	25	RT	UA	1	
TRAPELO RD.	24	+	53	RT	UA	1	
TRAPELO RD.	24	+	79	RT	UA	1	
TRAPELO RD.	25	+	70	RT	UA	1	
TRAPELO RD.	26	+	3	RT	UA	1	

STREET	STATION		SIDE	TYPE	QTY.	
	STA#00	STA+#0FFSE'				SYM
TRAPELO RD.	26	+	36	RT	UA	1
TRAPELO RD.	26	+	75	RT	UA	1
TRAPELO RD.	27	+	22	RT	UA	1
TRAPELO RD.	28	+	36	RT	UA	1
TRAPELO RD.	28	+	84	RT	UA	1
TRAPELO RD.	41	+	58	LT	UA	1
TRAPELO RD.	42	+	11	LT	UA	1
TRAPELO RD.	42	+	63	LT	UA	1
TRAPELO RD.	43	+	9	LT	UA	1
TRAPELO RD.	43	+	28	LT	UA	1
TRAPELO RD.	43	+	70	LT	UA	1
TRAPELO RD.	44	+	9	LT	UA	1
TRAPELO RD.	44	+	24	RT	UA	1
TRAPELO RD.	44	+	57	RT	UA	1
TRAPELO RD.	44	+	87	RT	UA	1
TRAPELO RD.	44	+	89	LT	UA	1
TRAPELO RD.	45	+	43	RT	UA	1
TRAPELO RD.	45	+	69	RT	UA	1
TRAPELO RD.	46	+	51	RT	UA	1
TRAPELO RD.	46	+	92	RT	UA	1
TRAPELO RD.	47	+	14	LT	UA	1
TRAPELO RD.	47	+	93	LT	UA	1
TRAPELO RD.	48	+	13	RT	UA	1
TRAPELO RD.	48	+	24	LT	UA	1
TRAPELO RD.	48	+	42	RT	UA	1
TRAPELO RD.	48	+	85	RT	UA	1
TRAPELO RD.	49	+	16	RT	UA	1
TRAPELO RD.	49	+	49	RT	UA	1
TRAPELO RD.	49	+	50	LT	UA	1
TRAPELO RD.	49	+	79	RT	UA	1
TRAPELO RD.	49	+	81	LT	UA	1
TRAPELO RD.	50	+	10	RT	UA	1
TRAPELO RD.	50	+	17	LT	UA	1
TRAPELO RD.	50	+	64	LT	UA	1
TRAPELO RD.	51	+	0	RT	UA	1
TRAPELO RD.	51	+	6	LT	UA	1
TRAPELO RD.	51	+	37	RT	UA	1
TRAPELO RD.	51	+	98	LT	UA	1
TRAPELO RD.	52	+	4	RT	UA	1
TRAPELO RD.	52	+	49	LT	UA	1
TRAPELO RD.	52	+	63	RT	UA	1
TRAPELO RD.	53	+	2	RT	UA	1
TRAPELO RD.	53	+	35	RT	UA	1
TRAPELO RD.	56	+	96	RT	UA	1
TRAPELO RD.	57	+	30	RT	UA	1
TRAPELO RD.	57	+	85	LT	UA	1
TRAPELO RD.	58	+	11	LT	UA	1
TRAPELO RD.	58	+	51	LT	UA	1
TRAPELO RD.	58	+	79	LT	UA	1
TRAPELO RD.	59	+	1	RT	UA	1
TRAPELO RD.	59	+	18	LT	UA	1
TRAPELO RD.	59	+	53	LT	UA	1
TRAPELO RD.	100	+	73	RT	UA	1
TRAPELO RD.	100	+	94	RT	UA	1
TRAPELO RD.	101	+	16	RT	UA	1
TRAPELO RD.	101	+	43	LT	UA	1
TRAPELO RD.	101	+	48	RT	UA	1
TRAPELO RD.	101	+	93	RT	UA	1
TRAPELO RD.	101	+	94	LT	UA	1
TRAPELO RD.	102	+	20	RT	UA	1
TRAPELO RD.	102	+	47	RT	UA	1
TRAPELO RD.	103	+	4	LT	UA	1
TRAPELO RD.	103	+	4	RT	UA	1
TRAPELO RD.	103	+	60	LT	UA	1
TRAPELO RD.	103	+	90	LT	UA	1
TRAPELO RD.	105	+	2	LT	UA	1
TRAPELO RD.	105	+	10	LT	UA	1
TRAPELO RD.	105	+	55	MED	UA	1
TRAPELO RD.	105	+	64	MED	UA	1
TRAPELO RD.	105	+	95	MED	UA	1
TRAPELO RD.	106	+	24	MED	UA	1
TRAPELO RD.	106	+	33	LT	UA	1
TRAPELO RD.	106	+	85	MED	UA	1
TRAPELO RD.	107	+	3	LT	UA	1
TRAPELO RD.	107	+	43	MED	UA	1
TRAPELO RD.	107	+	49	LT	UA	1
TRAPELO RD.	107	+	92	MED	UA	1
TRAPELO RD.	108	+	16	LT	UA	1
TRAPELO RD.	108	+	17	MED	UA	1
TRAPELO RD.	108	+	42	MED	UA	1
TRAPELO RD.	108	+	59	LT	UA	1
TRAPELO RD.	108	+	67	MED	UA	1
TRAPELO RD.	108	+	92	MED	UA	1
TRAPELO RD.	109	+	18	MED	UA	1
TRAPELO RD.	109	+	42	MED	UA	1

<u>STREET</u>	<u>STATION</u>		<u>SIDE</u>	<u>TYPE</u>	<u>QTY.</u>	
<u>STREET</u>	<u>STA#00</u>	<u>STA+#0FFSE</u>	<u>SYM</u>	<u>SYM</u>	<u>QTY.</u>	
TRAPELO RD.	109	+	59	LT	UA	1
TRAPELO RD.	109	+	67	MED	UA	1
TRAPELO RD.	109	+	83	LT	UA	1
TRAPELO RD.	109	+	93	MED	UA	1
TRAPELO RD.	110	+	17	MED	UA	1
TRAPELO RD.	110	+	42	MED	UA	1
TRAPELO RD.	110	+	54	LT	UA	1
TRAPELO RD.	110	+	67	MED	UA	1
TRAPELO RD.	110	+	74	LT	UA	1
TRAPELO RD.	111	+	17	MED	UA	1
TRAPELO RD.	111	+	42	MED	UA	1
TRAPELO RD.	111	+	66	MED	UA	1
TRAPELO RD.	111	+	78	LT	UA	1
TRAPELO RD.	112	+	16	MED	UA	1
TRAPELO RD.	112	+	18	LT	UA	1
TRAPELO RD.	112	+	40	MED	UA	1
TRAPELO RD.	113	+	68	LT	UA	1
TRAPELO RD.	114	+	31	LT	UA	1
TOTAL					119	EA