

Clearing and Grubbing		201.0003.0000
Eng. Estimate Quantity =	138.4 AC	138.4
		Acres

Area	Units	Remarks
5,758,860	SF	Disturbed area to be Cleared and Grubbed
268,369	SF	Area to be Cleared
138.4	Acres	[Acres = SF/43560]

*Area of S1 corridor calculated using CIVIL3D
 Assume timber has been harvested by third party prior to construction

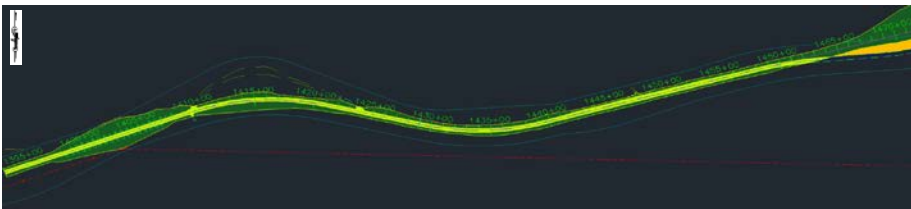
Clips below depict areas to for clearing and grubbing.

Green: the area to be cleared and grubbed.

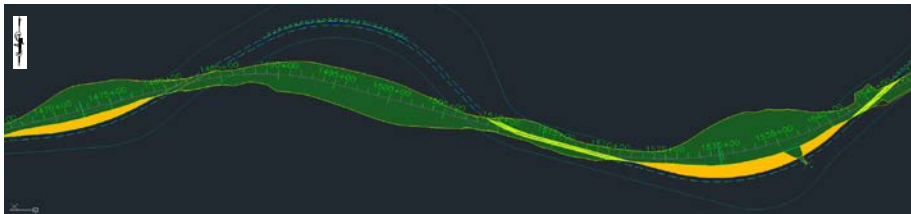
Yellow: Existing pavement

Orange: Area to be cleared only

1393+00 to 1470+00

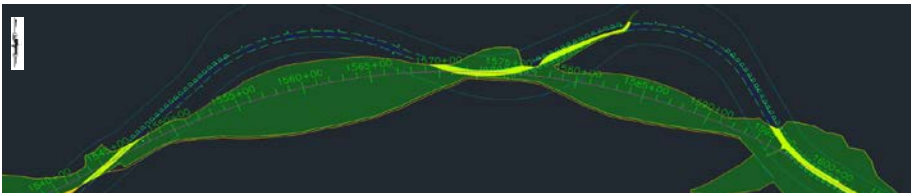


1465+00 to 1545+00



Area*	"S1" Sta to Sta	* depicted in orange above
94,209	146400	147900 Area between existing edge of pavement and new toe of slope to be cleared only
174,159	152300	154100 Area between existing edge of pavement and new toe of slope to be cleared only

1540+00 to 1605+00

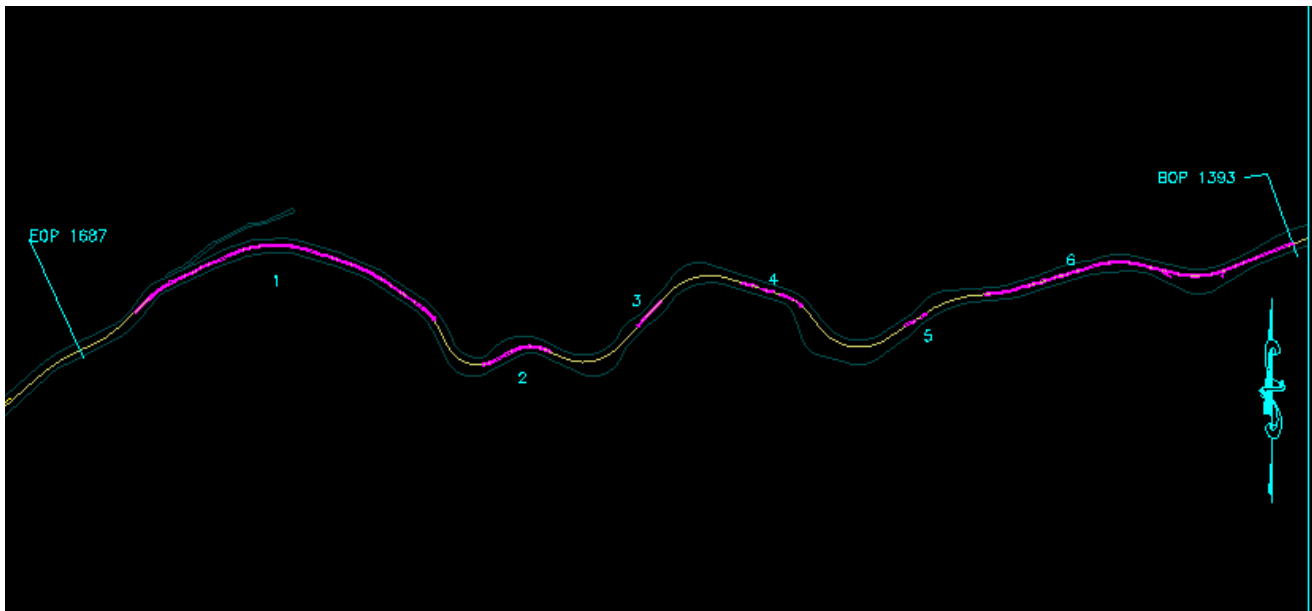


Removal of Pavement		202.0002.0000
Eng. Estimate Quantity =	90,900 SY	
	90,900	
		Square Yard

*Area calculated using autocadd (Layer "C-DEMO-ASPH_Remove") as shown in figure

Pavement Removal Area:	1)	315,645 SF
	2)	79,315 SF
	3)	31,180 SF
	4)	60,230 SF
	5)	21,715 SF
	6)	309,455 SF

Total Removal of Pavement	90,900 SY	[SY = SF/9]
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Removal of Multiple Mailbox	202.0021.0000
Eng. Estimate Quantity = 1 EACH	1
	EACH

No.	STA	Offset	Notes
1	1661+55	RT	See Photo - Sept 2020

Total 1 Each

No. 1 Mailbox Photo

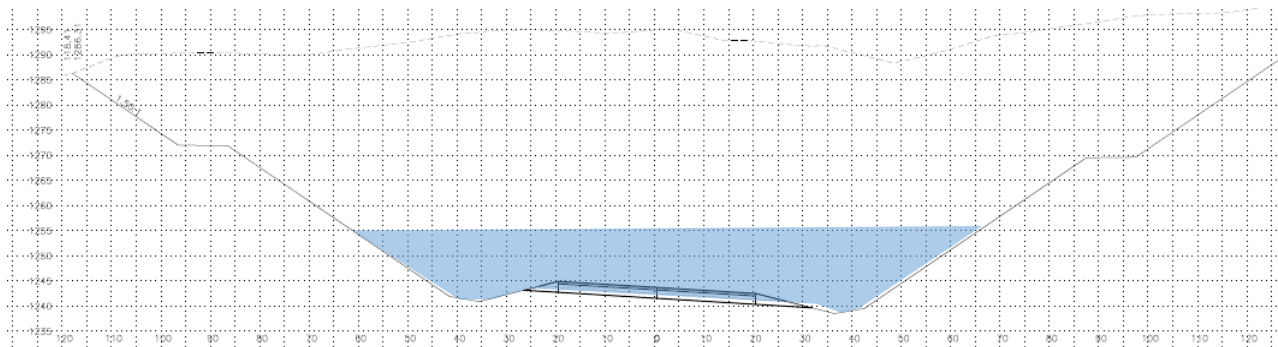


ROCK EXCAVATION		203.0002.0000
Eng. Estimate Quantity =	670,400 CY	
	670,400	
		CY

Assumptions:

Rock excavation location is based on the geophysical surveys performed in 2019 and 2021 show potential for marginally rippable to non-rippable at depths starting approximately 90 ft below grade

	Length (FT)	Average Area (SF)	Volume (CF)	
1486+00	1507+00	2100.00	2500	5,250,000
1551+00	1569+00	1800.00	5000	9,000,000
1579+00	1590+00	1100.00	3500	3,850,000
			TOTAL	18,100,000 CF
			TOTAL	670,370 CY



Unclassified Excavation			
Eng. Estimate Quantity =	2,640,000	CUBIC YARD	203.0003.0000
			2,640,000
			CUBIC YARD

Assumptions/Notes:

- Useable excavation meets Select Material Type C requirements 540.0
- 10% of Total Excavation will be unuseable
- Rock Excavation Quantity excluded from Total Unc Ex (203.0003) Quantity, but included within station breakdown
- Silt/Looms Material has a shrink of 23% after excavation & compaction in final location - Fill qty is 23% larger than Civil3D calced value
- Rock/earth has a swell of 12% - this is applied to the rock excavation qty in this summary
- * Total Embankment (CY) includes placement in Fill areas needed to meet the design project
- Embankment & excavation calculated using Civil3D software.

EXCAVATION (CY)				EMBANKMENT (CY)*	NET (CY)	
Unc Ex	Unuse Ex	Use Ex	Rock Ex	SELECT C	SHORT USEABLE	EXCESS USEABLE
3,383,888	330,343	3,053,548	750,848	2,992,430	-	61,118

Unc Ex = Total cut volum - Rock Ex = **2,633,040** Total unc ex **2,633,581**

Excavation from driveways & abandoned existing **541**

Station	A		B		C=1.23*B		D		E		F=0.9*E		G=F-C	
	Area (FILL)	Inc.Vol.	Cum.Vol.	Embankment	Area (CUT)	Inc.Vol.	Cum.Vol.	Usable Excavation	NET					
	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Cu.yd.					
1393+00	3.00	0.00	0.00	0.00	51.26	0.00	0.00	0.00	0.00					
1394+00	0.06	5.67	5.67	6.97	110.27	299.13	299.13	269.22	262.24					
1395+00	0.00	0.12	5.79	7.12	107.46	403.20	702.33	632.10	624.98					
1396+00	0.00	0.00	5.79	7.12	98.93	382.19	1084.52	976.07	968.95					
1397+00	0.00	0.00	5.79	7.12	87.97	346.10	1430.62	1287.56	1280.44					
1398+00	155.90	288.71	294.50	362.24	80.22	311.45	1742.07	1567.86	1205.63					
1399+00	549.14	1305.64	1600.14	1968.17	85.59	307.05	2049.12	1844.21	-123.96					
1400+00	892.90	2670.45	4270.59	5252.83	81.67	309.74	2358.86	2122.97	-3129.85					
1401+00	1332.06	4120.29	8390.88	10320.78	71.59	283.81	2642.67	2378.40	-7942.38					
1402+00	1560.20	5356.03	13746.91	16908.70	52.31	229.44	2872.11	2584.90	-14323.80					
1403+00	1824.46	6267.88	20014.79	24618.19	42.59	175.74	3047.85	2743.07	-21875.13					
1404+00	1641.95	6419.28	26434.07	32513.91	23.31	122.03	3169.88	2852.89	-29661.01					
1405+00	1488.17	5796.52	32230.59	39643.63	11.85	65.11	3234.99	2911.49	-36732.13					
1406+00	1154.18	4893.23	37123.82	45662.30	3.65	28.70	3263.69	2937.32	-42724.98					
1407+00	834.75	3683.19	40807.01	50192.62	3.75	13.70	3277.39	2949.65	-47242.97					
1408+00	528.63	2524.78	43331.79	53298.10	5.52	17.17	3294.56	2965.10	-50333.00					
1409+00	274.46	1487.20	44818.99	55127.36	13.89	35.94	3330.50	2997.45	-52129.91					
1410+00	2.35	522.62	45341.61	55770.18	94.84	201.64	3532.14	3178.93	-52591.25					
1411+00	0.21	4.67	45346.28	55775.92	220.15	578.46	4110.60	3699.54	-52076.38					
1412+00	7.02	13.20	45359.48	55792.16	450.07	1221.34	5331.94	4798.75	-50993.41					
1413+00	12.43	35.52	45395.00	55835.85	730.51	2141.41	7473.35	6726.02	-49109.84					
1414+00	7.95	37.23	45432.23	55881.64	922.28	3005.00	10478.35	9430.52	-46451.13					
1415+00	4.95	23.58	45455.81	55910.65	864.13	3264.38	13742.73	12368.46	-43542.19					
1416+00	0.00	9.06	45464.87	55921.79	770.05	2988.72	16731.45	15058.31	-40863.49					
1417+00	0.38	0.70	45465.57	55922.65	585.53	2468.61	19200.06	17280.05	-38642.60					
1418+00	4.32	8.63	45474.20	55933.27	347.31	1692.55	20892.61	18803.35	-37129.92					
1419+00	4.99	17.14	45491.34	55954.35	216.08	1023.92	21916.53	19724.88	-36229.47					
1420+00	4.24	17.15	45508.49	55975.44	176.19	714.16	22630.69	20367.62	-35607.82					
1421+00	44.01	90.81	45599.30	56087.14	101.08	504.77	23135.46	20821.91	-35265.23					
1422+00	130.99	324.06	45923.36	56485.73	17.11	218.87	23354.33	21018.90	-35466.84					
1423+00	240.15	687.29	46610.65	57331.10	0.00	31.68	23386.01	21047.41	-36283.69					
1424+00	189.43	795.53	47406.18	58309.60	0.00	0.00	23386.01	21047.41	-37262.19					
1425+00	369.82	1035.65	48441.83	59583.45	0.00	0.00	23386.01	21047.41	-38536.04					
1426+00	420.66	1463.84	49905.67	61383.97	0.00	0.00	23386.01	21047.41	-40336.57					
1427+00	246.20	1234.91	51140.58	62902.91	0.00	0.00	23386.01	21047.41	-41855.50					
1428+00	117.38	673.29	51813.87	63731.06	27.08	50.15	23436.16	21092.54	-42638.52					

Unclassified Excavation							203.0003.0000		
Eng. Estimate Quantity = 2,640,000 CUBIC YARD									
2,640,000									
CUBIC YARD									

1429+00	64.38	336.58	52150.45	64145.05	55.44	152.82	23588.98	21230.08	-42914.97
1430+00	42.88	197.81	52348.26	64388.36	48.24	191.99	23780.97	21402.87	-42985.49

	A	B	C=1.23XB	D	E	F=.9XE	G=F-C		
Station	Area (FILL) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Embankment Cu.yd.	Area (CUT) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Usable Excavation Cu.yd.	NET Cu.yd.
1431+00	36.46	146.12	52494.38	64568.09	30.67	146.08	23927.05	21534.35	-43033.74
1432+00	39.55	140.10	52634.48	64740.41	17.16	88.45	24015.50	21613.95	-43126.46
1433+00	55.81	175.92	52810.40	64956.79	1.63	34.72	24050.22	21645.20	-43311.59
1434+00	145.91	373.76	53184.16	65416.52	0.00	3.01	24053.23	21647.91	-43768.61
1435+00	205.10	650.82	53834.98	66217.03	0.00	0.00	24053.23	21647.91	-44569.12
1436+00	205.77	761.32	54596.30	67153.45	0.00	0.00	24053.23	21647.91	-45505.54
1437+00	190.01	732.37	55328.67	68054.26	0.00	0.00	24053.23	21647.91	-46406.36
1438+00	108.68	550.84	55879.51	68731.80	1.07	1.97	24055.20	21649.68	-47082.12
1439+00	139.85	458.41	56337.92	69295.64	14.03	27.87	24083.07	21674.76	-47620.88
1440+00	162.05	556.84	56894.76	69980.55	15.52	54.63	24137.70	21723.93	-48256.62
1441+00	139.18	557.84	57452.60	70666.70	20.64	66.96	24204.66	21784.19	-48882.50
1442+00	64.76	377.66	57830.26	71131.22	40.90	113.96	24318.62	21886.76	-49244.46
1443+00	18.04	153.32	57983.58	71319.80	74.65	213.97	24532.59	22079.33	-49240.47
1444+00	6.30	45.06	58028.64	71375.23	108.19	338.58	24871.17	22384.05	-48991.17
1445+00	3.16	17.51	58046.15	71396.76	117.70	418.32	25289.49	22760.54	-48636.22
1446+00	3.59	12.50	58058.65	71412.14	126.19	451.65	25741.14	23167.03	-48245.11
1447+00	7.40	20.36	58079.01	71437.18	95.69	410.90	26152.04	23536.84	-47900.35
1448+00	25.18	60.34	58139.35	71511.40	38.06	247.69	26399.73	23759.76	-47751.64
1449+00	60.49	158.65	58298.00	71706.54	3.28	76.55	26476.28	23828.65	-47877.89
1450+00	90.85	280.26	58578.26	72051.26	0.02	6.11	26482.39	23834.15	-48217.11
1451+00	109.41	370.85	58949.11	72507.41	0.00	0.03	26482.42	23834.18	-48673.23
1452+00	92.65	374.19	59323.30	72967.66	0.68	1.25	26483.67	23835.30	-49132.36
1453+00	61.35	285.19	59608.49	73318.44	19.22	36.84	26520.51	23868.46	-49449.98
1454+00	67.19	238.04	59846.53	73611.23	36.22	102.66	26623.17	23960.85	-49650.38
1455+00	40.92	200.20	60046.73	73857.48	64.71	186.91	26810.08	24129.07	-49728.41
1456+00	8.88	92.22	60138.95	73970.91	174.11	442.27	27252.35	24527.12	-49443.79
1457+00	2.88	21.79	60160.74	73997.71	263.91	811.16	28063.51	25257.16	-48740.55
1458+00	0.00	5.34	60166.08	74004.28	356.58	1149.07	29212.58	26291.32	-47712.96
1459+00	0.00	0.00	60166.08	74004.28	446.66	1487.49	30700.07	27630.06	-46374.22
1460+00	0.00	0.00	60166.08	74004.28	444.32	1649.97	32350.04	29115.04	-44889.24
1461+00	0.00	0.00	60166.08	74004.28	481.52	1714.53	34064.57	30658.11	-43346.17
1462+00	0.00	0.00	60166.08	74004.28	487.35	1794.21	35858.78	32272.90	-41731.38
1463+00	0.00	0.00	60166.08	74004.28	429.94	1698.68	37557.46	33801.71	-40202.56
1464+00	27.51	50.94	60217.02	74066.93	255.67	1269.63	38827.09	34944.38	-39122.55
1465+00	100.42	236.90	60453.92	74358.32	122.30	699.95	39527.04	35574.34	-38783.99
1466+00	229.04	610.11	61064.03	75108.76	25.48	273.68	39800.72	35820.65	-39288.11
1467+00	684.25	1691.28	62755.31	77189.03	0.00	47.19	39847.91	35863.12	-41325.91
1468+00	1965.40	4906.75	67662.06	83224.33	0.00	0.00	39847.91	35863.12	-47361.21
1469+00	3739.62	10564.85	78226.91	96219.10	0.00	0.00	39847.91	35863.12	-60355.98
1470+00	5479.46	17072.38	95299.29	117218.13	0.00	0.00	39847.91	35863.12	-81355.01
1471+00	7187.70	23457.70	118756.99	146071.10	0.00	0.00	39847.91	35863.12	-110207.98
1472+00	7921.97	27980.86	146737.85	180487.56	0.00	0.00	39847.91	35863.12	-144624.44
1473+00	7706.31	28941.26	175679.11	216085.31	0.00	0.00	39847.91	35863.12	-180222.19
1474+00	6131.05	25624.73	201303.84	247603.72	0.00	0.00	39847.91	35863.12	-211740.60
1475+00	5838.62	22166.05	223469.89	274867.96	0.00	0.00	39847.91	35863.12	-239004.85
1476+00	5028.52	20124.33	243594.22	299620.89	0.00	0.00	39847.91	35863.12	-263757.77
1477+00	3195.95	15230.49	258824.71	318354.39	0.00	0.00	39847.91	35863.12	-282491.27

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1478+00	1963.76	9555.02	268379.73	330107.07	8.98	16.62	39864.53	35878.08	-294228.99
1479+00	1326.41	6092.92	274472.65	337601.36	27.98	68.44	39932.97	35939.67	-301661.69

Station	A		B		C=1.23XB		D		E		F=.9XE		G=F-C	
	Area (FILL)	Inc.Vol.	Cum.Vol.	Embankment	Area (CUT)	Inc.Vol.	Cum.Vol.	Usable Excavation	NET					
	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Cu.yd.	Cu.yd.				
1480+00	563.11	3499.12	277971.77	341905.28	56.02	155.56	40088.53	36079.68	-305825.60					
1481+00	217.92	1446.35	279418.12	343684.29	4.78	112.6	40201.13	36181.02	-307503.27					
1482+00	278.03	918.42	280336.54	344813.94	247.18	466.59	40667.72	36600.95	-308213.00					
1483+00	372.91	1209.30	281545.84	346301.38	635.2	1619.97	42287.69	38058.92	-308242.46					
1484+00	326.49	1312.61	282858.45	347915.89	654.56	2344.5	44632.19	40168.97	-307746.92					
1485+00	57.29	723.24	283581.69	348805.48	900.28	2830.88	47463.07	42716.76	-306088.72					
1486+00	0.00	108.00	283689.69	348938.32	1965.28	5227	52690.07	47421.06	-301517.26					
1487+00	0.00	0.00	283689.69	348938.32	3427.2	9875.69	62565.76	56309.18	-292629.13					
1488+00	0.00	0.00	283689.69	348938.32	4356.01	14351.71	76917.47	69225.72	-279712.60					
1489+00	0.00	0.00	283689.69	348938.32	5391.37	18053.65	94971.12	85474.01	-263464.31					
1490+00	0.00	0.00	283689.69	348938.32	9191.02	26920.01	121891.13	109702.02	-239236.30					
1491+00	0.00	0.00	283689.69	348938.32	14961.64	44457.08	166348.21	149713.39	-199224.93					
1492+00	0.00	0.00	283689.69	348938.32	16900.91	58722.31	225070.52	202563.47	-146374.85					
1493+00	0.00	0.00	283689.69	348938.32	17150.42	62890.11	287960.63	259164.57	-89773.75					
1494+00	0.00	0.00	283689.69	348938.32	17561.75	64053.47	352014.10	316812.69	-32125.63					
1495+00	0.00	0.00	283689.69	348938.32	19269.38	67979.61	419993.71	377994.34	29056.02					
1496+00	0.00	0.00	283689.69	348938.32	20660.32	73943.88	493937.59	444543.83	95605.51					
1497+00	0.00	0.00	283689.69	348938.32	21688.64	78424	572361.59	515125.43	166187.11					
1498+00	0.00	0.00	283689.69	348938.32	22418.49	81679.89	654041.48	588637.33	239699.01					
1499+00	0.00	0.00	283689.69	348938.32	22452.26	83093.98	737135.46	663421.91	314483.60					
1500+00	0.00	0.00	283689.69	348938.32	21237.46	80906.89	818042.35	736238.12	387299.80					
1501+00	0.00	0.00	283689.69	348938.32	19128.75	74752.24	892794.59	803515.13	454576.81					
1502+00	0.00	0.00	283689.69	348938.32	16123.98	65282.83	958077.42	862269.68	513331.36					
1503+00	0.00	0.00	283689.69	348938.32	12614.5	53219.41	1011296.83	910167.15	561228.83					
1504+00	0.00	0.00	283689.69	348938.32	9398.57	40764.94	1052061.77	946855.59	597917.27					
1505+00	0.00	0.00	283689.69	348938.32	6175	28839.94	1080901.71	972811.54	623873.22					
1506+00	0.00	0.00	283689.69	348938.32	3626.53	18150.97	1099052.68	989147.41	640209.09					
1507+00	0.00	0.00	283689.69	348938.32	2337.92	11045.27	1110097.95	999088.16	650149.84					
1508+00	45.10	83.52	283773.21	349041.05	625.7	5488.18	1115586.13	1004027.52	654986.47					
1509+00	479.16	970.85	284744.06	350235.19	350.76	1808.26	1117394.39	1005654.95	655419.76					
1510+00	1143.60	3005.10	287749.16	353931.47	0	649.57	1118043.96	1006239.56	652308.10					
1511+00	1780.32	5414.67	293163.83	360591.51	0	0	1118043.96	1006239.56	645648.05					
1512+00	2227.75	7422.36	300586.19	369721.01	0	0	1118043.96	1006239.56	636518.55					
1513+00	2218.11	8233.08	308819.27	379847.70	0	0	1118043.96	1006239.56	626391.86					
1514+00	1892.96	7613.10	316432.37	389211.82	0	0	1118043.96	1006239.56	617027.75					
1515+00	1602.37	6472.85	322905.22	397173.42	0	0	1118043.96	1006239.56	609066.14					
1516+00	1305.47	5384.90	328290.12	403796.85	0	0	1118043.96	1006239.56	602442.72					
1517+00	1112.10	4482.30	332772.42	409310.08	0	0	1118043.96	1006239.56	596929.49					
1518+00	826.29	3594.88	336367.30	413731.78	0	0	1118043.96	1006239.56	592507.79					
1519+00	626.47	2687.28	339054.58	417037.13	0	0	1118043.96	1006239.56	589202.43					
1520+00	509.43	2091.59	341146.17	419609.79	0	0	1118043.96	1006239.56	586629.77					
1521+00	531.53	1910.61	343056.78	421959.84	29.39	55	1118098.96	1006289.06	584329.22					
1522+00	514.71	1922.76	344979.54	424324.83	32.46	115.87	1118214.83	1006393.35	582068.51					
1523+00	497.59	1863.32	346842.86	426616.72	0	60.87	1118275.70	1006448.13	579831.41					
1524+00	540.71	1911.02	348753.88	428967.27	0	0	1118275.70	1006448.13	577480.86					

Unclassified Excavation						203.0003.0000		
Eng. Estimate Quantity =								
						CUBIC YARD		
						2,640,000		
						CUBIC YARD		

1525+00	813.18	2488.77	351242.65	432028.46	0	0	1118275.70	1006448.13	574419.67
1526+00	2045.95	5248.14	356490.79	438483.67	0	0	1118275.70	1006448.13	567964.46
1527+00	4364.37	11740.53	368231.32	452924.52	0	0	1118275.70	1006448.13	553523.61
1528+00	7948.02	22452.24	390683.56	480540.78	0	0	1118275.70	1006448.13	525907.35

Station	A		B		C=1.23XB		D		E		F=.9XE		G=F-C	
	Area (FILL) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Embankment Cu.yd.	Area (CUT) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Usable Excavation Cu.yd.	NET Cu.yd.					
1529+00	11814.97	35897.43	426580.99	524694.62	0.00	0.00	1118275.70	1006448.13	481753.51					
1530+00	15853.20	50071.56	476652.55	586282.64	0.00	0.00	1118275.70	1006448.13	420165.49					
1531+00	17624.86	60387.02	537039.57	660558.67	0.00	0.00	1118275.70	1006448.13	345889.46					
1532+00	18587.32	65190.24	602229.81	740742.67	0.00	0.00	1118275.70	1006448.13	265705.46					
1533+00	18959.43	67508.99	669738.80	823778.72	0.00	0.00	1118275.70	1006448.13	182669.41					
1534+00	18532.68	67453.50	737192.30	906746.53	0.00	0.00	1118275.70	1006448.13	99701.60					
1535+00	17084.96	64199.48	801391.78	985711.89	0.00	0.00	1118275.70	1006448.13	20736.24					
1536+00	15070.56	58071.60	859463.38	1057139.96	0.00	0.00	1118275.70	1006448.13	-50691.83					
1537+00	10899.45	47083.31	906546.69	1115052.43	0.00	0.00	1118275.70	1006448.13	-108604.30					
1538+00	8356.01	35030.55	941577.24	1158140.01	0.00	0.00	1118275.70	1006448.13	-151691.88					
1539+00	4528.22	23499.47	965076.71	1187044.35	0.00	0.00	1118275.70	1006448.13	-180596.22					
1540+00	1893.19	11767.40	976844.11	1201518.26	0.00	0.00	1118275.70	1006448.13	-195070.13					
1541+00	303.19	4033.78	980877.89	1206479.80	2.09	3.88	1118279.58	1006451.62	-200028.18					
1542+00	325.77	1164.74	982042.63	1207912.43	144.15	270.82	1118550.40	1006695.36	-201217.07					
1543+00	587.45	1691.14	983733.77	1209992.54	36.31	334.19	1118884.59	1006996.13	-202996.41					
1544+00	1091.31	3108.80	986842.57	1213816.36	0.00	67.24	1118951.83	1007056.65	-206759.71					
1545+00	927.14	3737.87	990580.44	1218413.94	0.00	0.00	1118951.83	1007056.65	-211357.29					
1546+00	591.48	2812.26	993392.70	1221873.02	631.72	1169.85	1120121.68	1008109.51	-213763.51					
1547+00	394.19	1825.32	995218.02	1224118.16	437.72	1980.44	1122102.12	1009891.91	-214226.26					
1548+00	656.64	1956.70	997174.72	1226524.91	305.87	1363.90	1123466.02	1011119.42	-215405.49					
1549+00	704.44	2537.05	999711.77	1229645.48	368.08	1236.64	1124702.66	1012232.39	-217413.08					
1550+00	375.05	2016.14	1001727.91	1232125.33	999.43	2510.45	1127213.11	1014491.80	-217633.53					
1551+00	0.00	701.73	1002429.64	1232988.46	2581.54	6571.44	1133784.55	1020406.10	-212582.36					
1552+00	0.00	0.00	1002429.64	1232988.46	5145.96	14181.95	1147966.50	1033169.85	-199818.61					
1553+00	0.00	0.00	1002429.64	1232988.46	8917.19	25813.68	1173780.18	1056402.16	-176586.30					
1554+00	0.00	0.00	1002429.64	1232988.46	14252.94	42494.47	1216274.65	1094647.19	-138341.27					
1555+00	0.00	0.00	1002429.64	1232988.46	20277.04	63293.33	1279567.98	1151611.18	-81377.28					
1556+00	0.00	0.00	1002429.64	1232988.46	26345.16	85450.01	1365017.99	1228516.19	-4472.27					
1557+00	0.00	0.00	1002429.64	1232988.46	32395.25	107671.54	1472689.53	1325420.58	92432.12					
1558+00	0.00	0.00	1002429.64	1232988.46	36821.43	126903.53	1599593.06	1439633.75	206645.30					
1559+00	0.00	0.00	1002429.64	1232988.46	39841.02	140530.91	1740123.97	1566111.57	333123.12					
1560+00	0.00	0.00	1002429.64	1232988.46	40674.01	147511.01	1887634.98	1698871.48	465883.02					
1561+00	0.00	0.00	1002429.64	1232988.46	40752.89	149074.80	2036709.78	1833038.80	600050.34					
1562+00	0.00	0.00	1002429.64	1232988.46	39227.84	146336.58	2183046.36	1964741.72	731753.27					
1563+00	0.00	0.00	1002429.64	1232988.46	36635.80	138764.94	2321811.30	2089630.17	856641.71					
1564+00	0.00	0.00	1002429.64	1232988.46	33055.66	127466.72	2449278.02	2204350.22	971361.76					
1565+00	0.00	0.00	1002429.64	1232988.46	28692.82	112945.15	2562223.17	2306000.85	1073012.40					
1566+00	0.00	0.00	1002429.64	1232988.46	23642.42	95746.12	2657969.29	2392172.36	1159183.90					
1567+00	0.00	0.00	1002429.64	1232988.46	17606.02	75505.50	2733474.79	2460127.31	1227138.85					
1568+00	0.00	0.00	1002429.64	1232988.46	11653.30	53605.14	2787079.93	2508371.94	1275383.48					
1569+00	0.00	0.00	1002429.64	1232988.46	6753.29	33730.62	2820810.55	2538729.50	1305741.04					
1570+00	0.00	0.00	1002429.64	1232988.46	2944.74	17766.06	2838576.61	2554718.95	1321730.49					

Unclassified Excavation							203.0003.0000		
Eng. Estimate Quantity =									
2,640,000 CUBIC YARD									
							2,640,000		
							CUBIC YARD		
1571+00	0.11	0.21	1002429.85	1232988.72	686.68	6654.49	2845231.10	2560707.99	1327719.27
1572+00	755.03	1417.99	1003847.84	1234732.84	66.71	1382.68	2846613.78	2561952.40	1327219.56
1573+00	2394.44	5929.58	1009777.42	1242026.23	16.42	153.00	2846766.78	2562090.10	1320063.88
1574+00	3228.28	10611.34	1020388.76	1255078.17	0.00	30.17	2846796.95	2562117.26	1307039.08
1575+00	2739.69	11276.73	1031665.49	1268948.55	0.00	0.00	2846796.95	2562117.26	1293168.70
1576+00	832.45	6724.44	1038389.93	1277219.61	3.63	6.66	2846803.61	2562123.25	1284903.64
1577+00	1143.31	3680.71	1042070.64	1281746.89	1.21	8.89	2846812.50	2562131.25	1280384.36

	A	B	C=1.23XB		D	E	F=.9XE	G=F-C	
Station	Area (FILL)	Inc.Vol.	Cum.Vol.	Embankment	Area (CUT)	Inc.Vol.	Cum.Vol.	Usable Excavation	NET
	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Sq.ft.	Cu.yd.	Cu.yd.	Cu.yd.	Cu.yd.
1578+00	459.02	2993.39	1045064.03	1285428.76	324.39	597.57	2847410.07	2562669.06	1277240.31
1579+00	18.73	895.03	1045959.06	1286529.64	1556.13	3455.19	2850865.26	2565778.73	1279249.09
1580+00	0.00	35.09	1045994.15	1286572.80	4616.42	11362.21	2862227.47	2576004.72	1289431.92
1581+00	0.00	0.00	1045994.15	1286572.80	8133.04	23472.11	2885699.58	2597129.62	1310556.82
1582+00	0.00	0.00	1045994.15	1286572.80	11765.39	36633.60	2922333.18	2630099.86	1343527.06
1583+00	0.00	0.00	1045994.15	1286572.80	14464.52	48311.81	2970644.99	2673580.49	1387007.69
1584+00	0.00	0.00	1045994.15	1286572.80	15812.63	55796.73	3026441.72	2723797.55	1437224.74
1585+00	0.00	0.00	1045994.15	1286572.80	16092.97	58834.61	3085276.33	2776748.70	1490175.89
1586+00	0.00	0.00	1045994.15	1286572.80	14918.23	57219.71	3142496.04	2828246.44	1541673.63
1587+00	0.00	0.00	1045994.15	1286572.80	12659.16	50901.15	3193397.19	2874057.47	1587484.67
1588+00	0.00	0.00	1045994.15	1286572.80	9497.40	40903.92	3234301.11	2910871.00	1624298.19
1589+00	0.00	0.00	1045994.15	1286572.80	6783.59	30062.11	3264363.22	2937926.90	1651354.09
1590+00	0.00	0.00	1045994.15	1286572.80	3812.44	19560.35	3283923.57	2955531.21	1668958.41
1591+00	0.00	0.00	1045994.15	1286572.80	1692.19	10153.77	3294077.34	2964669.61	1678096.80
1592+00	492.27	921.84	1046915.99	1287706.67	507.78	4053.78	3298131.12	2968318.01	1680611.34
1593+00	1619.91	3953.64	1050869.63	1292569.64	0.00	934.88	3299066.00	2969159.40	1676589.76
1594+00	5140.86	12626.46	1063496.09	1308100.19	0.00	0.00	3299066.00	2969159.40	1661059.21
1595+00	8641.85	25617.63	1089113.72	1339609.88	0.00	0.00	3299066.00	2969159.40	1629549.52
1596+00	15194.76	44312.24	1133425.96	1394113.93	0.00	0.00	3299066.00	2969159.40	1575045.47
1597+00	20024.50	65524.47	1198950.43	1474709.03	0.00	0.00	3299066.00	2969159.40	1494450.37
1598+00	25030.25	83782.65	1282733.08	1577761.69	0.00	0.00	3299066.00	2969159.40	1391397.71
1599+00	27660.35	97575.20	1380308.28	1697779.18	0.00	0.00	3299066.00	2969159.40	1271380.22
1600+00	27506.11	102160.11	1482468.39	1823436.12	0.00	0.00	3299066.00	2969159.40	1145723.28
1601+00	27540.24	101937.69	1584406.08	1948819.48	0.00	0.00	3299066.00	2969159.40	1020339.92
1602+00	23215.52	93992.15	1678398.23	2064429.82	0.00	0.00	3299066.00	2969159.40	904729.58
1603+00	17471.86	75346.99	1753745.22	2157106.62	0.00	0.00	3299066.00	2969159.40	812052.78
1604+00	13228.03	56851.63	1810596.85	2227034.13	0.00	0.00	3299066.00	2969159.40	742125.27
1605+00	9926.30	42878.38	1853475.23	2279774.53	0.00	0.00	3299066.00	2969159.40	689384.87
1606+00	7812.20	32849.07	1886324.30	2320178.89	0.00	0.00	3299066.00	2969159.40	648980.51
1607+00	7537.98	28426.26	1914750.56	2355143.19	0.00	0.00	3299066.00	2969159.40	614016.21
1608+00	7563.63	27965.96	1942716.52	2389541.32	0.00	0.00	3299066.00	2969159.40	579618.08
1609+00	8437.03	29630.86	1972347.38	2425987.28	0.00	0.00	3299066.00	2969159.40	543172.12
1610+00	8002.95	30933.59	2003280.97	2464035.59	0.00	0.00	3299066.00	2969159.40	505123.81
1611+00	6831.28	27795.90	2031076.87	2498224.55	0.00	0.00	3299066.00	2969159.40	470934.85
1612+00	5362.25	22654.90	2053731.77	2526090.08	0.00	0.00	3299066.00	2969159.40	443069.32
1613+00	4376.10	17960.62	2071692.39	2548181.64	0.00	0.00	3299066.00	2969159.40	420977.76
1614+00	2732.62	13103.72	2084796.11	2564299.22	0.00	0.00	3299066.00	2969159.40	404860.18
1615+00	1809.21	8381.67	2093177.78	2574608.67	0.00	0.00	3299066.00	2969159.40	394550.73
1616+00	1212.00	5574.79	2098752.57	2581465.66	0.00	0.00	3299066.00	2969159.40	387693.74
1617+00	890.94	3884.59	2102637.16	2586243.71	4.88	9.17	3299075.17	2969167.65	382923.95

Unclassified Excavation							203.0003.0000		
Eng. Estimate Quantity = 2,640,000 CUBIC YARD									
2,640,000									
CUBIC YARD									
1618+00	743.94	3018.17	2105655.33	2589956.06	5.40	19.31	3299094.48	2969185.03	379228.98
1619+00	542.63	2373.32	2108028.65	2592875.24	123.08	241.75	3299336.23	2969402.61	376527.37
1620+00	625.63	2163.44	2110192.09	2595536.27	93.73	401.49	3299737.72	2969763.95	374227.68
1621+00	1074.26	3147.95	2113340.04	2599408.25	71.64	306.23	3300043.95	2970039.56	370631.31
1622+00	829.82	3526.08	2116866.12	2603745.33	1.05	134.60	3300178.55	2970160.70	366415.37
1623+00	1140.89	3649.46	2120515.58	2608234.16	14.42	28.65	3300207.20	2970186.48	361952.32
1624+00	1286.06	4494.35	2125009.93	2613762.21	0.00	26.71	3300233.91	2970210.52	356448.31
1625+00	1153.37	4517.46	2129527.39	2619318.69	9.77	18.10	3300252.01	2970226.81	350908.12
1626+00	947.54	3890.57	2133417.96	2624104.09	110.56	222.85	3300474.86	2970427.37	346323.28

	A	B	C=1.23XB		D	E	F=.9XE	G=F-C	
Station	Area (FILL) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Embankment Cu.yd.	Area (CUT) Sq.ft.	Inc.Vol. Cu.yd.	Cum.Vol. Cu.yd.	Usable Excavation Cu.yd.	NET Cu.yd.
1627+00	860.16	3347.59	2136765.55	2628221.63	23.19	247.69	3300722.55	2970650.30	342428.67
1628+00	885.89	3185.35	2139950.90	2632139.61	56.13	149.87	3300872.42	2970785.18	338645.57
1629+00	644.36	2794.86	2142745.76	2635577.28	52.95	206.25	3301078.67	2970970.80	335393.52
1630+00	1076.25	3143.10	2145888.86	2639443.30	0.00	100.18	3301178.85	2971060.97	331617.67
1631+00	1076.49	3929.54	2149818.40	2644276.63	0.00	0.00	3301178.85	2971060.97	326784.33
1632+00	1186.76	4133.07	2153951.47	2649360.31	0.00	0.00	3301178.85	2971060.97	321700.66
1633+00	1152.77	4274.59	2158226.06	2654618.05	0.00	0.00	3301178.85	2971060.97	316442.91
1634+00	1425.96	4708.21	2162934.27	2660409.15	0.00	0.00	3301178.85	2971060.97	310651.81
1635+00	1251.04	4882.79	2167817.06	2666414.98	0.00	0.00	3301178.85	2971060.97	304645.98
1636+00	1136.68	4357.59	2172174.65	2671774.82	0.00	0.00	3301178.85	2971060.97	299286.15
1637+00	1698.69	5158.18	2177332.83	2678119.38	0.00	0.00	3301178.85	2971060.97	292941.58
1638+00	1417.66	5663.16	2182995.99	2685085.07	0.00	0.00	3301178.85	2971060.97	285975.90
1639+00	1855.26	5946.99	2188942.98	2692399.87	0.00	0.00	3301178.85	2971060.97	278661.10
1640+00	2343.05	7599.29	2196542.27	2701746.99	0.00	0.00	3301178.85	2971060.97	269313.97
1641+00	2320.60	8423.40	2204965.67	2712107.77	4.87	9.18	3301188.03	2971069.23	258961.45
1642+00	2289.11	8328.36	2213294.03	2722351.66	15.17	37.74	3301225.77	2971103.19	248751.54
1643+00	1796.62	7383.32	2220677.35	2731433.14	24.29	74.29	3301300.06	2971170.05	239736.91
1644+00	1294.85	5583.89	2226261.24	2738301.33	27.05	96.64	3301396.70	2971257.03	232955.70
1645+00	1171.40	4452.99	2230714.23	2743778.50	21.15	90.64	3301487.34	2971338.61	227560.10
1646+00	1251.93	4377.48	2235091.71	2749162.80	7.55	53.86	3301541.20	2971387.08	222224.28
1647+00	1232.76	4492.49	2239584.20	2754688.57	4.71	22.84	3301564.04	2971407.64	216719.07
1648+00	654.80	3421.99	2243006.19	2758897.61	2.46	13.26	3301577.30	2971419.57	212521.96
1649+00	778.45	2654.15	2245660.34	2762162.22	0.00	4.55	3301581.85	2971423.67	209261.45
1650+00	1019.36	3329.27	2248989.61	2766257.22	0.00	0.00	3301581.85	2971423.67	205166.44
1651+00	1159.74	4035.36	2253024.97	2771220.71	0.00	0.00	3301581.85	2971423.67	200202.95
1652+00	3780.18	9147.99	2262172.96	2782472.74	0.00	0.00	3301581.85	2971423.67	188950.92
1653+00	4462.45	15264.12	2277437.08	2801247.61	0.00	0.00	3301581.85	2971423.67	170176.06
1654+00	4588.29	16760.63	2294197.71	2821863.18	0.00	0.00	3301581.85	2971423.67	149560.48
1655+00	4309.88	16478.09	2310675.80	2842131.23	2.23	4.13	3301585.98	2971427.38	129296.15
1656+00	2070.00	11814.59	2322490.39	2856663.18	0.00	4.13	3301590.11	2971431.10	114767.92
1657+00	2570.55	8593.62	2331084.01	2867233.33	0.00	0.00	3301590.11	2971431.10	104197.77
1658+00	2694.39	9749.89	2340833.90	2879225.70	0.87	1.61	3301591.72	2971432.55	92206.85
1659+00	2088.84	8857.82	2349691.72	2890120.82	0.00	1.61	3301593.33	2971434.00	81313.18
1660+00	1070.28	5850.22	2355541.94	2897316.59	0.00	0.00	3301593.33	2971434.00	74117.41
1661+00	314.79	2525.31	2358067.25	2900422.72	4.11	7.60	3301600.93	2971440.84	71018.12
1662+00	146.29	847.79	2358915.04	2901465.50	6.22	19.09	3301620.02	2971458.02	69992.52
1663+00	89.23	435.38	2359350.42	2902001.02	10.24	30.42	3301650.44	2971485.40	69484.38
1664+00	39.56	239.50	2359589.92	2902295.60	20.07	55.94	3301706.38	2971535.74	69240.14

Unclassified Excavation							203.0003.0000					
Eng. Estimate Quantity =										2,640,000		
										CUBIC YARD		
							2,640,000					
							CUBIC YARD					
1665+00	8.27	89.51	2359679.43	2902405.70	74.20	173.46	3301879.84	2971691.86	69286.16			
1666+00	1.07	17.49	2359696.92	2902427.21	100.81	322.63	3302202.47	2971982.22	69555.01			
1667+00	22.15	43.21	2359740.13	2902480.36	37.60	255.48	3302457.95	2972212.16	69731.80			
1668+00	80.35	191.13	2359931.26	2902715.45	41.96	146.76	3302604.71	2972344.24	69628.79			
1669+00	102.42	341.34	2360272.60	2903135.30	58.24	184.97	3302789.68	2972510.71	69375.41			
1670+00	132.79	438.24	2360710.84	2903674.33	56.36	211.64	3303001.32	2972701.19	69026.85			
1671+00	122.74	473.21	2361184.05	2904256.38	53.81	204.02	3303205.34	2972884.81	68628.42			
1672+00	2.49	231.92	2361415.97	2904541.64	69.80	228.91	3303434.25	2973090.83	68549.18			

Driveways

STA	Fill Volume (CY)	Cut Volume (CY)
1447+82	70.75	1.39
1536+00	8785.31	11.94
1577+41	9893.32	15.68
1595+22	65683.70	6.19
1614+07	3383.42	14.91
1661+47	67.07	14.02
Total Fill Vol. (CY)	87883.57	Total Fill Cut (CY) 64.13

Culvert Station	Remarks	Length (FT)	Avg Depth of Bu	Excavation (CY)
1425+84	Abandon in Place	95	12	1773
1479+71	Remove	84	9	924
1490+33	Clean	104	13	--
1496+00	Clean	130	16	--
1512+00	Abandon in Place	92	9	--
1621+60	Abandon in Place	97	13	--
1626+45	Abandon in Place	91	5	--
1636+75	Abandon in Place	98	8	--
1646+35	Remove	102	13	2210
1658+67	Remove	115	16	3680
Total Culvert				8587

<-- Culvert Excavation is subsidiary to the removal of culvert

Driveways

DW1447+82

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
1+20.45	0		0	
1+28.44	58.49	8.65	0	0.00
1+30.	70.87	3.74	0	0.00
1+40.	100.56	31.75	0	0.00
1+50.	18.37	22.02	0	0.00
1+60.	3.08	3.97	0	0.00
1+70.72	0	0.61	7	1.39
Total Fill Volume (CY)		70.75	Total Cut Volume (CY)	
			1.39	

DW1536+00

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
100+20	0		0	

Unclassified Excavation					203.0003.0000
Eng. Estimate Quantity =			2,640,000	CUBIC YARD	
					2,640,000
					CUBIC YARD

100+30	31.84	5.90	0	0.00
100+40	86.99	22.01	0	0.00
100+50	240.25	60.60	0	0.00
100+60	530.43	142.72	0	0.00
100+70	914.2	267.52	0	0.00
100+80	1391.7	427.02	0	0.00
100+90	1965	621.61	0	0.00
101+00	2647.14	854.10	0	0.00
101+10	2867.56	1021.24	0	0.00
101+20	2493.39	992.77	0	0.00
101+30	2154.51	860.72	0	0.00
101+40	1856.17	742.72	0	0.00
101+50	1597.52	639.57	0	0.00
101+60	1386.49	552.59	0	0.00
101+70	1165.22	472.54	0	0.00
101+80	948.57	391.44	0	0.00
101+90	710.21	307.18	0	0.00
102+00	420.96	209.48	0	0.00
102+10	154.95	106.65	0	0.00
102+20	75.26	42.63	0	0.00
102+30	48.53	22.92	0	0.00
102+40	25.53	13.71	0	0.00
102+50	7.42	6.10	0	0.00
102+60	0.35	1.44	3.82	0.71
102+70	0.07	0.08	8.72	2.32
102+80	0.07	0.03	8.18	3.13
102+90	0.02	0.02	7.59	2.92
103+00	0	0.00	7.84	2.86
Total Fill Volume (CY)		8785.31	11.94	Total Cut Volume (CY)

DW1577+41

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
2+32	0		0	
2+50	82.68	27.56	0	0.00
2+75	568.88	301.65	0	0.00
3+00	819.16	642.61	0	0.00
3+25	889.27	790.94	0	0.00
3+50	904.5	830.45	0	0.00
3+75	857.39	815.69	0	0.00
4+00	857.19	793.79	0	0.00
STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
4+25	819.86	776.41	0	0.00
4+50	779.74	740.56	0	0.00
4+75	721.5	695.02	0	0.00
5+00	636.62	628.76	0	0.00
5+25	534.74	542.30	0	0.00
5+50	449.02	455.44	0	0.00
5+75	388.01	387.51	0	0.00
6+00	321.79	328.61	0	0.00
6+25	261.65	270.11	0	0.00
6+50	209.73	218.23	0	0.00
6+75	165.39	173.67	0	0.00

Unclassified Excavation					203.0003.0000
Eng. Estimate Quantity =		2,640,000	CUBIC YARD		
7+00	130.26	136.88	0	0.00	
7+25	97.47	105.43	0	0.00	
7+50	69.25	77.19	0	0.00	
7+75	46.58	53.63	0	0.00	
8+00	22.12	31.81	0	0.00	
8+25	8.82	14.32	0.06	0.03	
8+50	3.65	5.77	1.05	0.51	
8+75	3.78	3.44	1.37	1.12	
9+00	8.89	5.87	1.18	1.18	
9+25	15.31	11.20	0.14	0.61	
9+50	14.08	13.61	0.13	0.13	
9+75	8.32	10.37	0.67	0.37	
10+00	0.64	4.15	5.42	2.82	
10+25	0.12	0.35	10.07	7.17	
10+30	0	0.01	8.76	1.74	
Total Fill Volume (CY)		9893.32	15.68	Total Cut Volume (CY)	

DW1595+22

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)	
1+20	0		0		
1+25	12.51	1.16	0	0.00	
1+50	220.85	108.04	0	0.00	
1+75	916.74	526.66	0	0.00	
2+00	1990.64	1346.01	0	0.00	
2+25	3499.07	2541.53	0	0.00	
2+50	5170.04	4013.48	0	0.00	
2+75	6137.65	5235.04	0	0.00	
3+00	6030.28	5633.30	0	0.00	
3+25	5761.07	5458.96	0	0.00	
3+50	5424.71	5178.60	0	0.00	
3+75	5052.56	4850.59	0	0.00	
4+00	4607.52	4472.26	0	0.00	
4+25	4134.02	4047.01	0	0.00	
4+50	3717.61	3635.01	0	0.00	
4+75	3364.28	3278.65	0	0.00	
5+00	2991.54	2942.51	0	0.00	
5+25	2644.11	2609.10	0	0.00	
5+50	2299.84	2288.87	0	0.00	
5+75	1937.01	1961.50	0	0.00	
6+00	1565.5	1621.53	0	0.00	
6+25	1233	1295.60	0	0.00	
6+50	978.61	1023.89	0	0.00	
6+75	649.07	753.56	0	0.00	
STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)	
7+00	330.7	453.60	0	0.00	
7+25	150.69	222.87	0	0.00	
7+50	60.21	97.64	0	0.00	
7+75	48.85	50.49	2.44	1.13	
8+00	21.03	32.35	4.48	3.20	
8+10	0	3.89	5.54	1.86	
Total Fill Volume (CY)		65683.70	6.19	Total Cut Volume (CY)	

Unclassified Excavation			
Eng. Estimate Quantity =	2,640,000	CUBIC YARD	203.0003.0000
			2,640,000
			CUBIC YARD

DW1614+07

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
1+25	0		0	
1+41	18.91	5.74	0	0.00
1+50	55.16	11.81	0	0.00
1+75	483.15	249.22	0	0.00
2+00	882.45	632.22	0	0.00
2+25	720.13	741.94	0	0.00
2+50	521.3	574.74	0	0.00
2+75	372.13	413.63	0	0.00
3+00	257.26	291.38	0	0.00
3+25	159.11	192.76	0	0.00
3+50	100.03	119.97	0	0.00
3+75	76.08	81.53	0	0.00
4+00	28.19	48.27	0	0.00
4+25	7.73	16.63	7.41	3.43
4+50	0	3.58	10.13	8.12
4+60	0	0.00	8	3.36
Total Fill Volume (CY)		3383.42		14.91
			Total Cut Volume (CY)	

DW1661+47

STA	Fill Area (SF)	Fill Volume (CY)	Cut Area (SF)	Cut Volume (CY)
6+29	0		0	
6+35	1.31	0.15	0	0.00
6+40	49.46	4.66	0	0.00
6+50	118.38	31.08	0	0.00
6+60	20.81	25.78	0	0.00
6+70	4.05	4.60	0.11	0.02
6+80	0.11	0.77	6.35	1.20
6+90	0	0.02	12.62	3.51
7+00	0	0.00	12.47	4.65
7+10	0	0.00	12.61	4.64
Total Fill Volume (CY)		67.07		14.02
			Total Cut Volume (CY)	

Existing Embankment Excavation

Trench STA	Cut Volume (CY)
1509+00	17.13
1547+00	207.98
1594+00	251.27

476.37 Total Cut Volume (CY)

*See breakdown on existing embankment excavation trenches below

Trench 1509+00

STA	Cut Area (SF)	Cut Volume (CY)
+70	0	
+80	1.99	0.37
+90	3.45	1.01
1+00	1.38	0.89
1+10	0	0.26

Unclassified Excavation			203.0003.0000
Eng. Estimate Quantity =	2,640,000	CUBIC YARD	
			2,640,000
			CUBIC YARD

1+20	13.81	2.56
1+30	11.66	4.72
1+40	8.32	3.70
1+50	4.17	2.31
1+60	0.15	0.80
1+70	0.51	0.12
1+80	0.6	0.21
1+90	0.2	0.15
2+00	0	0.04
Total Cut Volume (CY)		17.13

Trench 1547+00

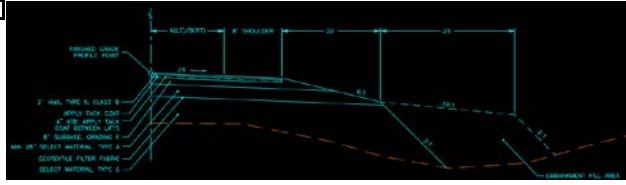
STA	Cut Area (SF)	Cut Volume (CY)
2+70	0	
2+80	0.3	0.06
2+90	0.29	0.11
3+00	0.34	0.12
3+10	1	0.25
3+20	1.46	0.46
3+30	1.85	0.61
3+40	2.13	0.74
3+50	2.09	0.78
3+60	3.89	1.11
3+70	7.98	2.20
3+80	11.25	3.56
3+90	12.86	4.46
4+00	15.05	5.17
4+10	16.47	5.84
4+20	16.45	6.10
4+30	17.28	6.25
4+40	22.21	7.31
4+50	22.77	8.33
4+60	25.75	8.99
4+70	25.15	9.43
4+80	29.14	10.05
4+90	34.32	11.75
5+00	35.32	12.90
5+10	35.79	13.17
5+20	35.14	13.14
5+30	38.91	13.71
5+40	36.37	13.94
5+50	29.09	12.12
5+60	23.32	9.71
5+70	20	8.02
5+80	16.28	6.72
5+90	14.18	5.64
6+00	7.02	3.93
6+10	0.1	1.32
6+20	0	0.02
Total Cut Volume (CY)		207.98

Trench 1594+00

STA	Cut Area (SF)	Cut Volume (CY)
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Unclassified Excavation			203.0003.0000	
Eng. Estimate Quantity =		2,640,000		CUBIC YARD
		2,640,000		CUBIC YARD
1+40	0			
1+50	11.16	2.07		
1+60	28.68	7.38		
1+70	31.12	11.07		
1+80	28.2	10.99		
1+90	23.72	9.61		
2+00	18.18	7.76		
2+10	13.39	5.85		
2+20	10.18	4.36		
2+30	4.2	2.66		
2+40	0.96	0.96		
2+50	1.5	0.46		
2+60	0.86	0.44		
2+70	0	0.16		
2+80	0	0.00		
2+90	0.02	0.00		
3+00	0.52	0.10		
3+10	14.42	2.77		
3+20	133.06	27.31		
3+30	5.98	25.75		
3+40	23.57	5.47		
3+50	33.27	10.53		
3+60	67.8	18.72		
3+70	83.87	28.09		
3+80	66.98	27.94		
3+90	54.07	22.42		
4+00	11.5	12.14		
4+10	11.21	4.21		
4+20	0	2.08		
Total Cut Volume (CY)		251.27		

Embankment Fill Area 1510+00



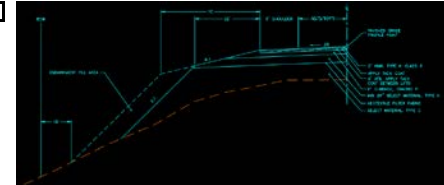
RT Slope Flattened to 10:1 after 22' of 6:1 from shoulder				Typical Barnroof			
Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)	Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)
151000	1263.86	3343.84	3343.84	151000	1246.59	3306.6	3306.6
151100	1993.54	6032.22	9376.06	151100	1976.27	5968.25	9274.85
151200	2442.32	8214.56	17590.62	151200	2425.05	8150.6	17425.45
151300	2433.67	9029.63	26620.25	151300	2416.4	8965.66	26391.11
151400	2109.48	8413.26	35033.51	151400	2092.21	8349.29	34740.4
151500	1809.27	7256.95	42290.46	151500	1792	7192.98	41933.38
151600	1500.71	6129.59	48420.05	151600	1483.44	6065.62	47999
151700	1302.95	5194.32	53614.37	151700	1285.68	5130.36	53129.36
151800	1023.27	4310.01	57924.38	151800	1006	4246.04	57375.4
151900	820.58	3408.75	61333.13	151900	803.31	3344.79	60720.19
152000	723.35	2845.09	64178.22	152000	706.08	2781.13	63501.32
152100	731.88	2676.25	66854.47	152100	720	2622.38	66123.7
152200	725.45	2682.48	69536.95	152200	712.2	2636.14	68759.84
152300	714.49	2653.96	72190.91	152300	697.98	2598.94	71358.78
152400	756.32	2710.68	74901.59	152400	739.05	2648.14	74006.92
152500	1030.96	3289.82	78191.41	152500	1013.69	3225.86	77232.78
152600	2343.46	6202.55	84393.96	152600	2249.84	5994.58	83227.36

RT Slope Flattened to 10:1 after 22' of 6:1 from shoulder				Typical Barnroof			
Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)	Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)
152700	4799.5	13103.34	97497.3	152700	4574.08	12501.74	95729.1
152800	8548.28	24383.05	121880.35	152800	8183.08	23265.89	118994.99
152900	12554.72	38401.69	160282.04	152900	12049.02	36750.14	155745.13
153000	16679.86	53013.55	213295.59	153000	16056.36	50867.48	206612.61
153100	18226.95	63132.53	276428.12	153100	17587.47	60729.71	267342.32
153200	19054.18	67343.85	343771.97	153200	18410.69	64902.6	332244.92
153300	19313.02	69254.81	413026.78	153300	18669.89	66806.52	399051.44
153400	19168.4	69485.88	482512.66	153400	18494.15	66978.39	466029.83
153500	17740.85	66728.23	549240.89	153500	17103.1	64231.08	530260.91
153600	15937.99	60978.39	610219.28	153600	15277.89	58511	588771.91
153700	11675.81	50165.78	660385.06	153700	11147.29	47908.12	636680.03
153800	9010.47	37705.99	698091.05	153800	8588.7	35902.77	672582.8
153900	4974.41	25555.14	723646.19	153900	4733.86	24301.29	696884.09
154000	2172.97	13118.39	736764.58	154000	2096.45	12520.31	709404.4
154100	650.24	5199.73	741964.31	154100	490.16	4754.19	714158.59
154200	606.82	2327.88	744292.19	154200	451.18	1743.24	715901.83
154300	1088.61	3139.68	747431.87	154300	900.69	2503.46	718405.29
154400	1600.9	4980.57	752412.44	154400	1466.04	4382.82	722788.11
154500	1355.57	5474.94	757887.38	154500	1336.56	5189.99	727978.1
154600	691.58	3791.03	761678.41	154600	682.52	3739.02	731717.12
154700	457.29	2127.55	763805.96	154700	448.66	2094.77	733811.89
154800	731.72	2212.48	766018.44	154800	723.09	2180.28	735992.17
154900	766.57	2790.91	768809.35	154900	757.94	2758.69	738750.86
155000	385.52	2150.21	770959.56	155000	376.88	2117.99	740868.85
155100	0	720.86	771680.42	155100	0	704.75	741573.6

Additional Material placed from 1508+00 to 1551+00, by flattening right slope

30,100 CY

Embankment Fill Area 1612+00



LT Slope Extend 6:1 from shoulder prior to 2:1 to daylight				Typical Barnroof				
Station	6:1 from shoulder (°C)	Area (SF)	Volume (CY)	Cum. Vol. (CY)	Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)
161200	50	7474.08	28620.73	94506	161200	6562.2	26985.97	92871.6
161300	50	6661.72	25962.24	120469	161300	5566.22	22358.67	115230
161400	50	4857.27	21143.18	141612	161400	3916.8	17480.67	132711
161500	100	5646.2	19201.06	160813	161500	2924.94	12622.47	145333
161600	100	3857.06	17317.97	178131	161600	2213.56	9478.76	154812
161700	100	3592.67	13592.41	191723	161700	1916	7625.8	162438
161800	100	4413.21	14549.1	206272	161800	1929.73	7095.01	169533
161900	100	4381.58	15924.64	222197	161900	1719.1	6726.08	176259
162000	100	4300.52	16077.96	238275	162000	1969.09	6829.97	183099
162100	75	4933.75	17100.51	255375	162100	2598.83	8459.11	191548
LT Slope Extend 6:1 from shoulder prior to 2:1 to daylight				Typical Barnroof				
Station	6:1 from shoulder (°C)	Area (SF)	Volume (CY)	Cum. Vol. (CY)	Station	Area (SF)	Volume (CY)	Cum. Vol. (CY)
162200	75	4194.32	16903.84	272279	162200	2197.3	8881.74	200430
162300	75	4778.19	16615.76	288895	162300	2548.39	8788.32	209218
162400	75	5223.53	18521.69	307417	162400	2670.06	9663.78	218882
162500	75	4461.12	17934.53	325351	162500	2362.73	9319.97	228202
162600	75	4150.11	15946.72	341298	162600	2035.01	8143.96	236346
162700	75	3939.14	14980.09	356278	162700	1899.19	7285.56	243631
162800	75	3923.24	14142.94	370421	162800	1857.48	6866.73	250498
162900	75	3062.27	12584.79	383006	162900	1384.71	5936.05	256434
163000	75	3900.39	12551.92	395558	163000	1828.84	5886.82	262321
163100	75	3581.86	113484	409042	163100	1740.96	6532.85	268954
163200	75	3716.46	13162.54	422204	163200	1866.04	6602.26	275456
163300	75	3374.88	12796.27	435000	163300	1665.93	6467.59	281924
163400	75	3786.96	12922.88	447923	163400	1964.13	6642.38	288566
163500	75	3545.78	13212.4	461136	163500	1710.14	6715.14	295281
163600	75	3303.87	12336.18	473472	163600	1445.49	5771.97	301053
163700	50	3313.62	11923.71	485396	163700	2065.87	6401.66	307455
163800	50	2824.26	11080.98	496477	163800	1759.93	6965.33	314420

163900	50	3378.8	11204.53	507681		163900	2205.56	7219.69	321640
164000	42	4136.57	13524.55	521206		164000	2595.61	8709.75	330350
164100	30	3390.37	13521.01	534727		164100	2554.1	9314.2	339664
164200	42	2942.03	11407.45	546134		164200	2387.64	8934.22	348598
164300	50	3433.85	11464.3	557598		164300	1993.49	7924.43	356523
164400	50	2813.79	11188.72	568787		164400	1487.11	6293.25	362816
164500	50	2632.03	9750.96	578538		164500	1343.32	5117.17	367933
164600	50	2787.94	9701.46	588240		164600	1409.12	4978.79	372912
164700	50	2574.69	9609.62	597849		164700	1382.99	5055.05	377967
164800	50	1749.42	7771.75	605621		164800	774.02	3917.01	381884
164900	50	1780.82	6537.47	612158		164900	866.16	3037.37	384921
165000	50	2117.75	7219.56	619378		165000	1105.17	3650.6	388572
165100	50	2332.48	8241.15	627619		165100	1244.6	4351.42	392923
165200	50	5474.25	14456.91	642076		165200	4648.28	10912.73	403836
Additional Material placed from 1612+00 to 1652+00, by extending 6:1 on left slope								238,200	CY

On-Site Disposal Area

Begin Sta	End Sta	Fill Area #	Volume (CY)	Remarks
1527+00	1535+00	1	201,077	Placement along old/existing Parks Hwy
1555+00	1563+00	2	212,510	Placement along existing Parks Hwy
1584+00	1590+00	3	133,700	Placement along existing Parks Hwy

Total 547,287

Fill embankment 1 + Fill embankment 2 + On-Site Disposal Areas

Total Excess placement	815,587	CY
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Borrow, Type A		203.0006.0000
Eng. Estimate Quantity =	187,800 Tons	187,800
		Tons

Total Volume 84,141.74 CY
 Estimating Factor 1.94 Ton/CY
 Total Weight 163,234.98 Ton [Total Weight = (Volume) * (Estimating Factor)]
w/ 15% Contingency 187,800 Ton [= (Total Weight) * 1.15]

contingency to account of transitions between min 28" depth to 12" depth

Mainline [Volume=((1394+00)-(1393+00))*average(54.52, 60.52))/27]

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1393+00	0		1424+00	0	0.00
1394+00	0	0.00	1425+00	0	0.00
1395+00	0	0.00	1426+00	0	0.00
1396+00	0	0.00	1427+00	0	0.00
1397+00	0	0.00	1428+00	0	0.00
1398+00	0	0.00	1429+00	0	0.00
1399+00	0	0.00	1430+00	0	0.00
1400+00	0	0.00	1431+00	0	0.00
1401+00	0	0.00	1432+00	0	0.00
1402+00	0	0.00	1433+00	0	0.00
1403+00	0	0.00	1434+00	0	0.00
1404+00	0	0.00	1435+00	0	0.00
1405+00	0	0.00	1436+00	0	0.00
1406+00	0	0.00	1437+00	0	0.00
1407+00	0	0.00	1438+00	0	0.00
1408+00	0	0.00	1439+00	0	0.00
1409+00	0	0.00	1440+00	0	0.00
1410+00	0	0.00	1441+00	0	0.00
1411+00	0	0.00	1442+00	0	0.00
1412+00	0	0.00	1443+00	0	0.00
1413+00	0	0.00	1444+00	0	0.00
1414+00	0	0.00	1445+00	0	0.00
1415+00	0	0.00	1446+00	0	0.00
1416+00	0	0.00	1447+00	0	0.00
1417+00	0	0.00	1448+00	0	0.00
1418+00	0	0.00	1449+00	0	0.00
1419+00	0	0.00	1450+00	0	0.00
1420+00	0	0.00	1451+00	0	0.00
1421+00	0	0.00	1452+00	0	0.00
1422+00	0	0.00	1453+00	0	0.00
1423+00	0	0.00	1454+00	0	0.00

Borrow, Type A	203.0006.0000
Eng. Estimate Quantity = 187,800 Tons	187,800
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1455+00	0	0.00	1493+00	54.18	200.67
1456+00	0	0.00	1494+00	54.18	200.67
1457+00	0	0.00	1495+00	53.6	199.59
1458+00	0	0.00	1496+00	53.94	199.15
1459+00	0	0.00	1497+00	54.52	200.85
1460+00	0	0.00	1498+00	54.52	201.93
1461+00	0	0.00	1499+00	54.52	201.93
1462+00	0	0.00	1500+00	54.52	201.93
1463+00	0	0.00	1501+00	54.52	201.93
1464+00	0	0.00	1502+00	54.52	201.93
1465+00	58.65	108.61	1503+00	54.52	201.93
1466+00	58.65	217.22	1504+00	54.52	201.93
1467+00	58.65	217.22	1505+00	54.52	201.93
1468+00	160.87	406.52	1506+00	54.52	201.93
1469+00	160.87	595.81	1507+00	54.52	201.93
1470+00	160.87	595.81	1508+00	58.65	209.57
1471+00	160.87	595.81	1509+00	58.65	217.22
1472+00	160.87	595.81	1510+00	58.65	217.22
1473+00	160.87	595.81	1511+00	160.87	406.52
1474+00	160.87	595.81	1512+00	160.87	595.81
1475+00	160.87	595.81	1513+00	160.87	595.81
1476+00	160.87	595.81	1514+00	160.87	595.81
1477+00	160.87	595.81	1515+00	161.51	597.00
1478+00	58.65	406.52	1516+00	161.56	598.28
1479+00	58.65	217.22	1517+00	161.02	597.37
1480+00	58.65	217.22	1518+00	161.02	596.37
1481+00	58.04	216.09	1519+00	161.02	596.37
1482+00	56.18	211.52	1520+00	161.02	596.37
1483+00	56.1	207.93	1521+00	150	575.96
1484+00	56.16	207.89	1522+00	150	555.56
1485+00	56.16	208.00	1523+00	150	555.56
1486+00	54.18	204.33	1524+00	161.02	575.96
1487+00	54.18	200.67	1525+00	161.02	596.37
1488+00	54.18	200.67	1526+00	161.02	596.37
1489+00	54.18	200.67	1527+00	161.02	596.37
1490+00	54.18	200.67	1528+00	161.02	596.37
1491+00	54.18	200.67	1529+00	161.02	596.37
1492+00	54.18	200.67	1530+00	161.02	596.37

Borrow, Type A	203.0006.0000
Eng. Estimate Quantity = 187,800 Tons	187,800
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1531+00	161.02	596.37	1569+00	65.75	243.52
1532+00	161.02	596.37	1570+00	65.75	243.52
1533+00	161.02	596.37	1571+00	65.75	243.52
1534+00	161.02	596.37	1572+00	68.03	247.74
1535+00	161.02	596.37	1573+00	68.03	251.96
1536+00	161.02	596.37	1574+00	73.4	261.91
1537+00	161.02	596.37	1575+00	73.4	271.85
1538+00	161.02	596.37	1576+00	68.03	261.91
1539+00	161.02	596.37	1577+00	68.03	251.96
1540+00	161.02	596.37	1578+00	68.03	251.96
1541+00	161.27	596.83	1579+00	68.03	251.96
1542+00	161.73	598.15	1580+00	65.75	247.74
1543+00	207.47	683.70	1581+00	65.75	243.52
1544+00	277.37	897.85	1582+00	65.75	243.52
1545+00	230.77	941.00	1583+00	65.75	243.52
1546+00	57.38	533.61	1584+00	65.75	243.52
1547+00	56.07	210.09	1585+00	65.75	243.52
1548+00	57.46	210.24	1586+00	65.75	243.52
1549+00	58.89	215.46	1587+00	65.75	243.52
1550+00	60.32	220.76	1588+00	65.75	243.52
1551+00	59.46	221.81	1589+00	65.75	243.52
1552+00	60.89	222.87	1590+00	65.75	243.52
1553+00	62.32	228.17	1591+00	65.75	243.52
1554+00	63.75	233.46	1592+00	179.72	454.57
1555+00	65.18	238.76	1593+00	189.39	683.54
1556+00	65.75	242.46	1594+00	189.39	701.44
1557+00	65.75	243.52	1595+00	189.39	701.44
1558+00	65.75	243.52	1596+00	189.39	701.44
1559+00	65.75	243.52	1597+00	189.39	701.44
1560+00	65.75	243.52	1598+00	189.56	701.76
1561+00	65.75	243.52	1599+00	189.43	701.83
1562+00	65.75	243.52	1600+00	193.82	709.72
1563+00	65.75	243.52	1601+00	198.81	727.09
1564+00	65.75	243.52	1602+00	203.81	745.59
1565+00	65.75	243.52	1603+00	205.8	758.54
1566+00	65.75	243.52	1604+00	205.8	762.22
1567+00	65.75	243.52	1605+00	203.81	758.54
1568+00	65.75	243.52	1606+00	198.81	745.59

Borrow, Type A	203.0006.0000
Eng. Estimate Quantity = 187,800 Tons	187,800
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1607+00	193.82	727.09	1645+00	36.05	133.52
1608+00	189.66	710.15	1646+00	36.05	133.52
1609+00	189.32	701.81	1647+00	36.05	133.52
1610+00	189.27	701.09	1648+00	34.45	130.56
1611+00	189.27	701.00	1649+00	32.35	123.70
1612+00	189.27	701.00	1650+00	32.35	119.81
1613+00	189.27	701.00	1651+00	32.35	119.81
1614+00	189.27	701.00	1652+00	74.44	197.76
1615+00	189.27	701.00	1653+00	74.44	275.70
1616+00	189.27	701.00	1654+00	74.44	275.70
1617+00	178.31	680.70	1655+00	74.44	275.70
1618+00	178.31	660.41	1656+00	32.35	197.76
1619+00	178.31	660.41	1657+00	32.35	119.81
1620+00	179.05	661.78	1658+00	32.35	119.81
1621+00	178.75	662.59	1659+00	32.35	119.81
1622+00	178.65	661.85	1660+00	34.63	124.04
1623+00	178.65	661.67	1661+00	36.05	130.89
1624+00	178.65	661.67	1662+00	36.05	133.52
1625+00	178.65	661.67	1663+00	36.05	133.52
1626+00	178.99	662.30	1664+00	37.47	136.15
1627+00	178.42	661.87	1665+00	32.42	129.43
1628+00	177.87	659.80	1666+00	33.85	122.72
1629+00	177.87	658.78	1667+00	0	62.69
1630+00	188.9	679.20	1668+00	0	0.00
1631+00	188.9	699.63	1669+00	0	0.00
1632+00	188.9	699.63	1670+00	0	0.00
1633+00	188.9	699.63	1671+00	0	0.00
1634+00	188.9	699.63	1672+00	0	0.00
1635+00	188.9	699.63			
1636+00	188.9	699.63			
1637+00	188.9	699.63			
1638+00	188.9	699.63			
1639+00	188.9	699.63			
1640+00	188.9	699.63			
1641+00	36.05	416.57			
1642+00	36.05	133.52			
1643+00	36.05	133.52			
1644+00	36.05	133.52			
Total Volume (CY)				84,142	

Removal of Culvert Pipe	202.0017.0000
Eng. Estimate Quantity = 4 EACH	4
	EACH

Station	Offset	Length	Unit	Comment
1479+61	78.7' RT	83	LF	Remove 24" cross culvert, Trench embankment
1490+33	409.3' LT	103	LF	Remove 24" cross culvert, Trench embankment
1496+00	594.3' LT	128	LF	Remove 24" cross culvert, Trench Embankment
1661+44	47.6' RT	54	LF	Remove 12" approach culvert

Total	368	
Round Up	368	LF
	4	Number of Culverts

Abandon Pipe in Place	202.2015.0000
Eng. Estimate Quantity = 7 EACH	7
	EACH

Station	Offset	Length	Unit	Comment
1425+85	34.6' RT	95	LF	Abandon in Place - 24" cross culvert
1512+00	30.9' RT	91	LF	Abandon in Place - 24" cross culvert
1621+63	36.7' RT	95	LF	Abandon in Place - 24" cross culvert
1626+45	37.0' RT	90	LF	Abandon in Place - 24" cross culvert
1636+00	66.9' RT	126	LF	Abandon in Place - 24" cross culvert
1646+34	51.5' RT	100	LF	Abandon in Place - 24" cross culvert
1658+66	60.3' RT	113	LF	Abandon in Place - 24" cross culvert
	Total	7	EACH	

Rumble Strips	
Eng. Estimate Quantity =	55,037 Linear Feet
	406.0001.0000
	All Req'd
	Lump Sum

Length of Hwy

Begin Sta	End Sta	Length (FT)
1393+00	1672+00	27,900

Length of Hwy *2 55800 FT *For both sides of highway

Rumble strip gaps at approaches

Location	Offset	Begin STA	End STA	Length (FT)
DW1409+59	RT	1409+31.8	1409+86.8	55.0
DW1447+82	LT	1447+39.6	1448+17.2	77.6
DW1536+00	RT	1535+62.6	1536+37.4	74.8
Snow Plow Turnaround	LT	1542+80.	1543+30.	50.0
Snow Plow Turnaround	LT	1544+80.	1545+30.	50.0
DW1577+41	LT	1577+04.6	1577+80.4	75.8
DW1595+22	RT	1594+84.2	1595+59.	74.8
DW1614+07	RT	1613+61.5	1614+33.9	72.4
Turnout	LT	1651+00.	1651+75.	75.0
Turnout	LT	1655+05.	1655+80.	75.0
DW1661+47	RT	1661+01.5	1661+84.	82.5
Total Gap Length (FT)				762.9

[(Length of Hwy * 2) - (Total Gap Length)] 55037.1 FT

CSP 12 INCH		603.0001.0012
Eng. Estimate Quantity =	62 LF	62
		Linear Foot

<u>STA</u>	<u>Length (FT)</u>	<u>Remarks</u>
1661+39	62	Approach Culvert

CSP 36 INCH	603.0001.0036
Eng. Estimate Quantity = 1571 LF	1571
	Linear Foot

<u>STA</u>	<u>Length (FT)</u>	<u>Remarks</u>
1429+00	105	Cross Culvert
1479+42	170	Cross Culvert
1529+77	232	Cross Culvert
1535+94	159	Approach Culvert
1595+62	251	Approach Culvert
1613+83	103	Approach Culvert
1619+00	103	Cross Culvert
1626+00	107	Cross Culvert
1636+00	126	Cross Culvert
1646+34	103	Cross Culvert
1660+00	112	Cross Culvert
Total	1571	FT

Riprap, Class I	611.0001.0001
Eng. Estimate Quantity = 320 CY	320.0
	CY

Culvert Riprap Aprons:

Culvert "S1" STA Riprap Length (FT)			
1429+00	17		
1472+42	195		
1529+77	222		
1619+00	36		
1626+00	79		
1636+00	76		
1648+00	78		
1660+00	81		
Total Length	784	FT	
Width	10	FT	
Depth	1	FT	
Total Volume	290.3704	CY	[Total Length*Width*Depth/27]
w/ 10% Contingency	320	CY	[Total Volume*1.1]

Culvert Marker Post		613.0002.0000
Eng. Estimate Quantity =	10 EA	10
		Each

Location:	Type	
1425+86	Cross Culvert	1
1472+42	Cross Culvert	1
1529+77	Cross Culvert	1
1535+94	Approach Culvert	0
1595+62	Approach Culvert	0
1613+83	Approach Culvert	0
1619+00	Cross Culvert	1
1626+00	Cross Culvert	1
1636+00	Cross Culvert	1
1646+34	Cross Culvert	1
1660+00	Cross Culvert	1
1661+39	Approach Culvert	2

Total 10 Each

Per Standard Specification Section 613-3.01

Install culvert marker posts at the following locations:

1. The approach side of storm drain outfalls 30 inches and smaller
2. Field inlets that are not in paved parking lots
3. End sections to all cross culverts

Standard Sign	615.0001.0000
Eng. Estimate Quantity = 173.50 SF	
173.50	
	Square Foot

Location #	STA	ASDS Code	Legend	Size (Inches)	Area (SF)
1	1392+55	D10-203	MILE 325	14x36	3.5
		D14-100	ADOPT A HIGHWAY	30X24	5
			RRC	30X12	2.5
2	1447+33	D10-203	MILE 324	14x36	3.5
3	1499+00	D17-2	PASSING LANE 2 MILES	42X42	12.25
4	1499+70	D10-203	MILE 323	14x36	3.5
5	1542+00	W16-102	WATCH FOR ICE	30X30	6.25
6	1543+80	R8-3	NO PARKING	36X36	9
		SPECIAL	SNOW PLOW TURN AROUND	30X24	5
7	1544+30	R8-3	NO PARKING	36X36	9
		SPECIAL	SNOW PLOW TURN AROUND	30X24	5
8	1546+00	D10-203	MILE 322	14x36	3.5
9	1547+55	D2-3	Nenana 17 Clear 43 Anchorage 322	78x42	22.75
10	1550+41	W7-1	(HILL) SYMBOL	30X30	6.25
11	1567+40	W4-2R	(RIGHT LANE ENDS) SYMBOL	36X36	9
12	1572+40	W9-1	RIGHT LANE ENDS	36X36	9
13	1593+20	D10-203	MILE 321	14x36	3.5
14	1602+40	R4-5	TRUCKS USE RIGHT LANE	24x30	5
15	1604+60	R4-16	KEEP RIGHT EXCEPT TO PASS	24x30	5
16	1628+80	D17-2	TRUCK LANE 1/2 MILE	42X42	12.25
17	1644+33	D10-203	MILE 320	14x36	3.5
18	1646+00	W9-1	RIGHT LANE ENDS	36X36	9
19	1651+00	W4-2R	(RIGHT LANE ENDS) SYMBOL	36X36	9
20	1661+66	D3-1	Dineege Ave (2 SIDES)	60X12	5
		R1-1	STOP	30x30	6.25

Total (SF) 173.50

Salvage and Dispose Sign	615.0007.0000
Eng. Estimate Quantity = 66 EA	
66 Each	

Location #	"S1" STA	Offset	Direction	ASDS Code	Legend
1	1392+54	LT	W/E	D10-203	MILE 325
			W	D14-100	ADOPT A HIGHWAY RRC
2	1438+07	LT	W	D9-102	(VIEWING AREA) SYMBOL
				D9-308	1500 FT
3	1447+28	LT	W	W4-2	(LANE ENDS) SYMBOL
4	1447+33	LT	W/E	D10-203	MILE 324
5	1448+82	LT	W	W9-1	RIGHT LANE ENDS
6	1456+05	LT	W	R4-5	TRUCKS USE RIGHT LANE
7	1461+07	LT	W	R4-6	TRUCK LANE 500 FEET
8	1499+70	623' LT	NW/SE	D10-203	MILE 323
9	1545+72	LT	SW/NE	D10-203	MILE 322
10	1547+55	LT	NE	D2-3	Nenana 17 Clear 43 Anchorage 322
11	1549+24	91' LT	NE	W16-102	WATCH FOR ICE
12	1551+07	161' LT	NE	W7-1	(HILL) SYMBOL
				W7-2bP	TRUCKS USE LOWER GEAR (PLAQUE)
13	1553+27	248' LT	NE	W1-2	(RIGHT CURVE) SYMBOL
				W13-1P	55 MPH (PLAQUE)
14	1553+36	324' LT	SW	W4-2	(LANE ENDS) SYMBOL
15	1554+79	386' LT	SW	W9-1	RIGHT LANE ENDS
16	1556+84	457' LT	SW/NE	W1-8L	(CHEVRON ALIGNMENT) SYMBOL
				W1-8R	(CHEVRON ALIGNMENT) SYMBOL
17	1558+42	478' LT	W/E	W1-8L	(CHEVRON ALIGNMENT) SYMBOL
				W1-8R	(CHEVRON ALIGNMENT) SYMBOL
18	1560+04	482' LT	W/E	W1-8L	(CHEVRON ALIGNMENT) SYMBOL
				W1-8R	(CHEVRON ALIGNMENT) SYMBOL
19	1561+61	465' LT	W/E	W1-8L	(CHEVRON ALIGNMENT) SYMBOL
				W1-8R	(CHEVRON ALIGNMENT) SYMBOL
20	1563+37	423' LT	W/E	W1-8L	(CHEVRON ALIGNMENT) SYMBOL
				W1-8R	(CHEVRON ALIGNMENT) SYMBOL
21	1566+81	175' LT	SE	W8-5	(SLIPPERY WHEN WET) SYMBOL
				W13-1P	45 MPH (PLAQUE)
22	1567+24	239' LT	NW	W1-2	(LEFT CURVE) SYMBOL
				W13-1P	55 MPH (PLAQUE)

Salvage and Dispose Sign	615.0007.0000
Eng. Estimate Quantity = 66 EA	
66	
	Each

Location #	"S1" STA	Offset	Direction	ASDS Code	Legend
23	1568+89	63' LT	SE	W1-2	(LEFT CURVE) SYMBOL
				W13-1P	45 MPH (PLAQUE)
24	1570+94	RT	E/W	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
25	1572+73	RT	E/W	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
26	1574+76	RT	E/W	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
27	1577+08	150' LT	SW	W1-2	(RIGHT CURVE) SYMBOL
				W13-1P	50 MPH (PLAQUE)
28	1580+38	327' LT	NE	W1-2	(RIGHT CURVE) SYMBOL
				W13-1P	45 MPH (PLAQUE)
29	1582+01	536' LT	W/E	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
30	1584+13	623' LT	W/E	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
31	1585+91	648' LT	W/E	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
32	1589+50	558' LT	NW/SE	W1-8R	(CHEVRON ALIGNMENT) SYMBOL
				W1-8L	(CHEVRON ALIGNMENT) SYMBOL
33	1592+20	375' LT	NW/SE	W1-2	(LEFT CURVE) SYMBOL
				W13-1P	45 MPH (PLAQUE)
34	1593+20	295' LT	NW/SE	D10-203	MILE 321
35	1594+45	119' LT	SE	W1-2	(LEFT CURVE) SYMBOL
				W13-1P	50 MPH (PLAQUE)
36	1596+45	LT	NW	R4-3	SLOWER TRAFFIC KEEP RIGHT
37	1596+66	75' LT	NW	R4-5	TRUCKS USE RIGHT LANE
38	1600+82	LT	NW	W1-2	(RIGHT CURVE) SYMBOL
				W13-1P	50 MPH (PLAQUE)
39	1601+50	LT	NW	R4-6	TRUCK LANE 500 FEET
40	1603+36	LT	NW	W16-102	WATCH FOR ICE
41	1644+33	LT	W/E	D10-203	MILE 320
42	1661+18	RT	NE/SW	D3-1	DINEEGEE AVE

Total 66 Each

Salvage and Dispose Sign		615.0007.0000
Eng. Estimate Quantity =	66 EA	66
		Each

Seeding		618.0002.0000
Eng. Estimate Quantity =	14,100 LBS	14,100
		Pounds

<u>SF from Clearing and Grubbing</u>			
Civil3D area	7,486,518	SF	
25% CONTINGENCY	9,358,147	SF	
Total	9,358,147	SF	
	9,358	MSF	[MSF = SF/1000]
Estimating Factor	2	LBS/MSF	
Total	14,037	LBS	
Rounded Total	14,100	LBS	

Contingency is to seed onsite disposal areas

Driveway	639.0001.0000
Eng. Estimate Quantity = 7 EA	7
	Each

<u>Approximate Station</u>	<u>Offset</u>	
1409+59	RT	
1447+82	LT	
1536+00	RT	
1577+41	LT	
1595+22	RT	
1614+07	RT	
1661+39	RT	
Total	7	Each

Embedment Material	204.2004.0000
Eng. Estimate Quantity = 78,700 TON	78,700
	TON

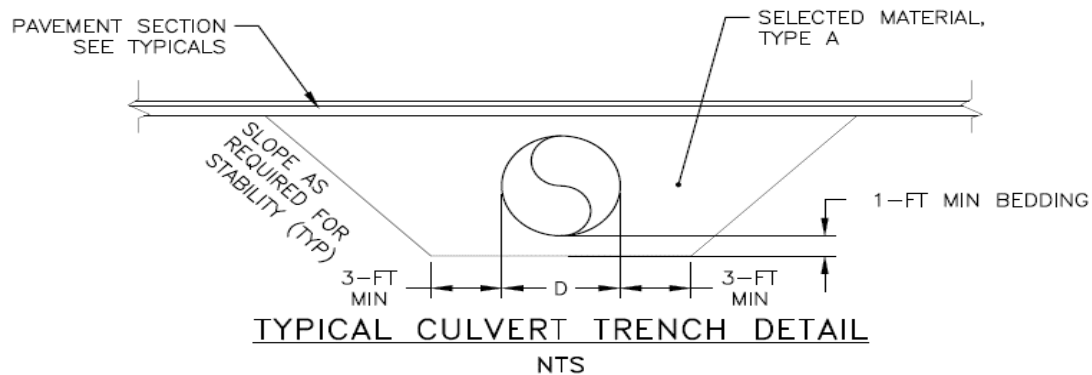
$$\text{Volume} = ((2 \cdot H^2 + (6 + D) \cdot H) \cdot L) - (\pi \cdot (D/2)^2 \cdot L) / 27$$

Culvert STA	Length (LF)	Diameter (FT)	Avg Depth (FT)	Volume (CY)
1429+00	105	3	5	341.96
1472+42	170	3	15	3638.83
1529+77	232	3	26	13567.11
1535+94	159	3	18	4728.37
1595+62	251	3	23	11694.10
1613+83	103	3	10	1079.33
1619+00	103	3	4	232.44
1626+00	107	3	4	241.47
1636+00	126	3	6	555.01
1648+00	103	3	5	335.44
1660+00	112	3	5	364.75
1661+39	62	1	3	87.75

Total Volume	36,866.58	CY	
Estimating Factor	1.94	Ton/CY	
Total Weight	71,521.16	Ton	[Total Weight = (Volume) * (Estimating Factor)]
w/ 10% Contingency	78,700	Ton	[= (Total Weight) * 1.1]

*Embedment material is Selected Material, Type A

*Assume trench according to "Typical Culvert Trench Detail" on Plans Sheet E3 with 2: 1 side slopes

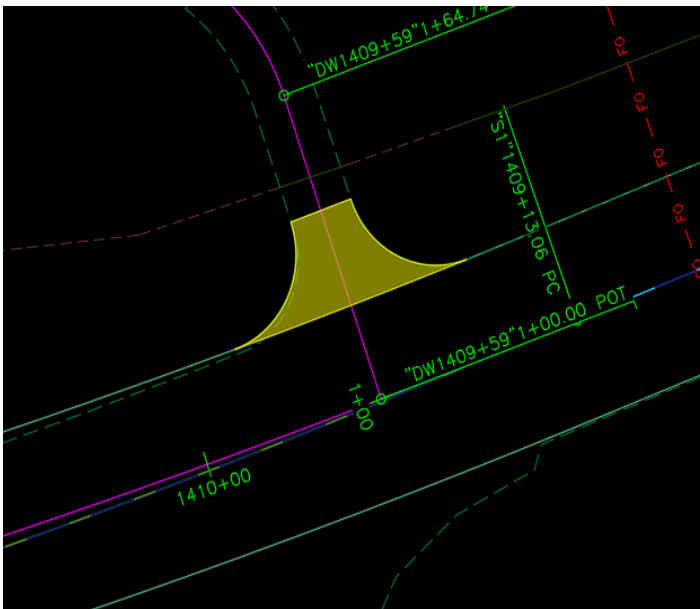


Aggregate Base Course, Grading D-1		301.0001.00D1
Eng. Estimate Quantity =	160 Tons	
	160	
		Tons

Approaches			[Volume=Area*(Thickness/12)/27]
STA	Area (SF)	Thickness (inch)	Volume (CY)
1409+59	459	4	5.67
1447+82	876	4	10.81
1536+00	855	4	10.56
1577+41	958	4	11.83
1595+22	814	4	10.05
1614+07	831	4	10.26
1661+47	1173	4	14.48

Total Volume (CY) 73.65

*Approach areas calculated from autocad, example below



Total Volume	73.65	CY	
Estimating Factor	1.94	TON/CY	
Total Weight	142.89	TON	[Total Weight = (Total Volume) * (Estimating Factor)]
w/ 10% Contingency	160	TON	[= (Total Weight) * 1.1]

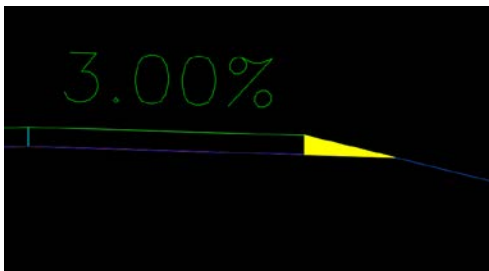
Aggregate Surface Course, Grading E-1	301.0003.00E1
Eng. Estimate Quantity = 1,410 Tons	
1,410	
Tons	

Approach Sta	Transition (FT)	Width (FT)	Area (SF)	Depth (FT)	Volume (CY)
1409+59	0	14	0	0.5	0.00
1447+82	18	14	252	0.5	4.67
1536+00	251	16	4016	0.5	74.37
1577+41	764	16	12224	0.5	226.37
1595+22	660	14	9240	0.5	171.11
1614+07	295	14	4130	0.5	76.48
1661+47	48	24	1152	0.5	21.33
Total (CY)					574.33

Shoulder Triangles

Area 0.57 SF *From CAD
 Area * 2 1.14 SF [For both sides]

Approach Sta	Transition (FT)	Area (SF)	Volume (CY)
1409+59	0	1.14	0.00
1447+82	18	1.14	0.76
1536+00	251	1.14	10.60
1577+41	764	1.14	32.26
1595+22	660	1.14	27.87
1614+07	295	1.14	12.46
1661+47	48	1.14	2.03
Total (CY)			85.96



Total Volume	660.30	CY	
Estimating Factor	1.94	TON/CY	
Total Weight	1280.98	TON	[Total Weight = (Total Volume) * (Estimating Factor)]
w/ 10% Contingency	1410	TON	[= (Total Weight) * 1.1]

Subbase, Grading F	304.0001.000F
Eng. Estimate Quantity = 85,500 Tons	85,500
	Tons

Total Volume	40049.11	CY	
Estimating Factor	1.94	TON/CY	
Total Weight	77695.28	TON	[Total Weight = (Total Volume) * (Estimating Factor)]
w/ 10% Contingency	85500	TON	[= (Total Weight) * 1.10]

Mainline			[Volume=((1394+00)-(1393+00))*average(32.75, 35.21))/27]		
STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1393+00	35.21		1424+00	36.13	130.22
1394+00	32.75	125.85	1425+00	36.13	133.81
1395+00	32.75	121.30	1426+00	36.13	133.81
1396+00	32.75	121.30	1427+00	36.13	133.81
1397+00	33.58	122.83	1428+00	35.49	132.63
1398+00	34.4	125.89	1429+00	35.43	131.33
1399+00	34.4	127.41	1430+00	36.24	132.72
1400+00	34.4	127.41	1431+00	36.24	134.22
1401+00	34.4	127.41	1432+00	36.24	134.22
1402+00	34.4	127.41	1433+00	36.24	134.22
1403+00	34.4	127.41	1434+00	36.24	134.22
1404+00	34.4	127.41	1435+00	36.24	134.22
1405+00	36.13	130.61	1436+00	36.24	134.22
1406+00	36.13	133.81	1437+00	36.24	134.22
1407+00	36.13	133.81	1438+00	36.24	134.22
1408+00	35.49	132.63	1439+00	36.24	134.22
1409+00	35.43	131.33	1440+00	35.36	132.59
1410+00	32.61	126.00	1441+00	35.57	131.35
1411+00	32.61	120.78	1442+00	36.13	132.78
1412+00	32.61	120.78	1443+00	32.75	127.56
1413+00	32.61	120.78	1444+00	32.75	121.30
1414+00	32.61	120.78	1445+00	32.75	121.30
1415+00	32.61	120.78	1446+00	32.75	121.30
1416+00	32.61	120.78	1447+00	32.75	121.30
1417+00	32.61	120.78	1448+00	32.75	121.30
1418+00	32.61	120.78	1449+00	34.44	124.43
1419+00	33.42	122.28	1450+00	34.44	127.56
1420+00	33.42	123.78	1451+00	34.44	127.56
1421+00	33.4	123.74	1452+00	34.44	127.56
1422+00	33.43	123.76	1453+00	34.44	127.56
1423+00	34.19	125.22	1454+00	34.44	127.56

Subbase, Grading F	304.0001.000F
Eng. Estimate Quantity = 85,500 Tons	85,500
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1455+00	34.44	127.56	1493+00	32.61	120.78
1456+00	32.75	124.43	1494+00	32.61	120.78
1457+00	32.75	121.30	1495+00	32.37	120.33
1458+00	32.75	121.30	1496+00	32.51	120.15
1459+00	32.75	121.30	1497+00	32.75	120.85
1460+00	32.75	121.30	1498+00	32.75	121.30
1461+00	32.75	121.30	1499+00	32.75	121.30
1462+00	32.75	121.30	1500+00	32.75	121.30
1463+00	32.75	121.30	1501+00	32.75	121.30
1464+00	34.44	124.43	1502+00	32.75	121.30
1465+00	34.44	127.56	1503+00	32.75	121.30
1466+00	34.44	127.56	1504+00	32.75	121.30
1467+00	34.44	127.56	1505+00	32.75	121.30
1468+00	36.13	130.69	1506+00	32.75	121.30
1469+00	36.13	133.81	1507+00	32.75	121.30
1470+00	36.13	133.81	1508+00	34.44	124.43
1471+00	36.13	133.81	1509+00	34.44	127.56
1472+00	36.13	133.81	1510+00	34.44	127.56
1473+00	36.13	133.81	1511+00	36.13	130.69
1474+00	36.13	133.81	1512+00	36.13	133.81
1475+00	36.13	133.81	1513+00	36.13	133.81
1476+00	36.13	133.81	1514+00	36.13	133.81
1477+00	36.13	133.81	1515+00	35.49	132.63
1478+00	34.44	130.69	1516+00	35.44	131.35
1479+00	34.44	127.56	1517+00	35.98	132.26
1480+00	34.44	127.56	1518+00	35.98	133.26
1481+00	34.19	127.09	1519+00	35.98	133.26
1482+00	33.43	125.22	1520+00	35.98	133.26
1483+00	33.4	123.76	1521+00	35.13	131.69
1484+00	33.42	123.74	1522+00	35.13	130.11
1485+00	33.42	123.78	1523+00	35.13	130.11
1486+00	32.61	122.28	1524+00	35.98	131.69
1487+00	32.61	120.78	1525+00	35.98	133.26
1488+00	32.61	120.78	1526+00	35.98	133.26
1489+00	32.61	120.78	1527+00	35.98	133.26
1490+00	32.61	120.78	1528+00	35.98	133.26
1491+00	32.61	120.78	1529+00	35.98	133.26
1492+00	32.61	120.78	1530+00	35.98	133.26

Subbase, Grading F	304.0001.000F
Eng. Estimate Quantity = 85,500 Tons	85,500
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1531+00	35.98	133.26	1569+00	40.47	149.89
1532+00	35.98	133.26	1570+00	40.47	149.89
1533+00	35.98	133.26	1571+00	40.47	149.89
1534+00	35.98	133.26	1572+00	41.41	151.63
1535+00	35.98	133.26	1573+00	41.41	153.37
1536+00	35.98	133.26	1574+00	43.61	157.44
1537+00	35.98	133.26	1575+00	43.61	161.52
1538+00	35.98	133.26	1576+00	41.41	157.44
1539+00	35.98	133.26	1577+00	41.41	153.37
1540+00	35.98	133.26	1578+00	41.41	153.37
1541+00	35.73	132.80	1579+00	41.41	153.37
1542+00	35.27	131.48	1580+00	40.47	151.63
1543+00	49.53	157.04	1581+00	40.47	149.89
1544+00	69.63	220.67	1582+00	40.47	149.89
1545+00	56.23	233.07	1583+00	40.47	149.89
1546+00	33.92	166.94	1584+00	40.47	149.89
1547+00	33.39	124.65	1585+00	40.47	149.89
1548+00	34.33	125.41	1586+00	40.47	149.89
1549+00	35.28	128.91	1587+00	40.47	149.89
1550+00	36.24	132.44	1588+00	40.47	149.89
1551+00	36.26	134.26	1589+00	40.47	149.89
1552+00	37.22	136.07	1590+00	40.47	149.89
1553+00	38.18	139.63	1591+00	40.47	149.89
1554+00	39.14	143.19	1592+00	41.41	151.63
1555+00	40.09	146.72	1593+00	43.61	157.44
1556+00	40.47	149.19	1594+00	43.61	161.52
1557+00	40.47	149.89	1595+00	43.61	161.52
1558+00	40.47	149.89	1596+00	43.61	161.52
1559+00	40.47	149.89	1597+00	43.61	161.52
1560+00	40.47	149.89	1598+00	43.44	161.20
1561+00	40.47	149.89	1599+00	43.57	161.13
1562+00	40.47	149.89	1600+00	45.61	165.15
1563+00	40.47	149.89	1601+00	47.04	171.57
1564+00	40.47	149.89	1602+00	48.48	176.89
1565+00	40.47	149.89	1603+00	49.05	180.61
1566+00	40.47	149.89	1604+00	49.05	181.67
1567+00	40.47	149.89	1605+00	48.48	180.61
1568+00	40.47	149.89	1606+00	47.04	176.89

Subbase, Grading F	304.0001.000F
Eng. Estimate Quantity = 85,500 Tons	85,500
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1607+00	45.61	171.57	1645+00	43.26	160.22
1608+00	43.34	164.72	1646+00	43.26	160.22
1609+00	43.68	161.15	1647+00	43.26	160.22
1610+00	43.73	161.87	1648+00	42.71	159.20
1611+00	43.73	161.96	1649+00	43.38	159.43
1612+00	43.73	161.96	1650+00	44.17	162.13
1613+00	43.73	161.96	1651+00	44.17	163.59
1614+00	43.73	161.96	1652+00	74.43	219.63
1615+00	43.73	161.96	1653+00	74.43	275.67
1616+00	43.73	161.96	1654+00	74.43	275.67
1617+00	42.82	160.28	1655+00	74.43	275.67
1618+00	42.82	158.59	1656+00	44.17	219.63
1619+00	42.82	158.59	1657+00	44.17	163.59
1620+00	42.08	157.22	1658+00	44.17	163.59
1621+00	42.38	156.41	1659+00	43.34	162.06
1622+00	42.48	157.15	1660+00	43.69	161.17
1623+00	42.48	157.33	1661+00	44.1	162.57
1624+00	42.48	157.33	1662+00	43.26	161.78
1625+00	42.48	157.33	1663+00	44.1	161.78
1626+00	42.14	156.70	1664+00	44.1	163.33
1627+00	42.71	157.13	1665+00	40.6	156.85
1628+00	43.26	159.20	1666+00	40.6	150.37
1629+00	43.26	160.22	1667+00	44.1	156.85
1630+00	44.1	161.78	1668+00	44.1	163.33
1631+00	44.1	163.33	1669+00	44.1	163.33
1632+00	44.1	163.33	1670+00	43.64	162.48
1633+00	44.1	163.33	1671+00	43.38	161.15
1634+00	44.1	163.33	1672+00	40.29	154.94
1635+00	44.1	163.33			
1636+00	44.1	163.33			
1637+00	44.1	163.33			
1638+00	44.1	163.33			
1639+00	44.1	163.33			
1640+00	44.1	163.33			
1641+00	43.26	161.78			
1642+00	43.26	160.22			
1643+00	43.26	160.22			
1644+00	43.26	160.22			
			Total Volume (CY)		40049.11

Asphalt Treated Base (ATB)	306.0001.0000
Eng. Estimate Quantity = 34,900 Tons	34,900
	Tons

Total Volume	15827.37	CY	
Estimating Factor	2.00	TON/CY	
Total Weight	31654.74	TON	[Total Weight = (Total Volume) * (Estimating Factor)]
w/ 10% Contingency	34900	TON	[= (Total Weight) * 1.1]

Mainline			[Volume=((1394+00)-(1393+00))*average(13.2, 13.2))/27]		
STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1393+00	13.2		1424+00	13.2	48.89
1394+00	13.2	48.89	1425+00	13.2	48.89
1395+00	13.2	48.89	1426+00	13.2	48.89
1396+00	13.2	48.89	1427+00	13.2	48.89
1397+00	13.2	48.89	1428+00	13.2	48.89
1398+00	13.2	48.89	1429+00	13.2	48.89
1399+00	13.2	48.89	1430+00	13.2	48.89
1400+00	13.2	48.89	1431+00	13.2	48.89
1401+00	13.2	48.89	1432+00	13.2	48.89
1402+00	13.2	48.89	1433+00	13.2	48.89
1403+00	13.2	48.89	1434+00	13.2	48.89
1404+00	13.2	48.89	1435+00	13.2	48.89
1405+00	13.2	48.89	1436+00	13.2	48.89
1406+00	13.2	48.89	1437+00	13.2	48.89
1407+00	13.2	48.89	1438+00	13.2	48.89
1408+00	13.2	48.89	1439+00	13.2	48.89
1409+00	13.2	48.89	1440+00	13.2	48.89
1410+00	13.2	48.89	1441+00	13.2	48.89
1411+00	13.2	48.89	1442+00	13.2	48.89
1412+00	13.2	48.89	1443+00	13.2	48.89
1413+00	13.2	48.89	1444+00	13.2	48.89
1414+00	13.2	48.89	1445+00	13.2	48.89
1415+00	13.2	48.89	1446+00	13.2	48.89
1416+00	13.2	48.89	1447+00	13.2	48.89
1417+00	13.2	48.89	1448+00	13.2	48.89
1418+00	13.2	48.89	1449+00	13.2	48.89
1419+00	13.2	48.89	1450+00	13.2	48.89
1420+00	13.2	48.89	1451+00	13.2	48.89
1421+00	13.2	48.89	1452+00	13.2	48.89
1422+00	13.2	48.89	1453+00	13.2	48.89
1423+00	13.2	48.89	1454+00	13.2	48.89

Asphalt Treated Base (ATB)	306.0001.0000
Eng. Estimate Quantity = 34,900 Tons	34,900
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1455+00	13.2	48.89	1493+00	13.2	48.89
1456+00	13.2	48.89	1494+00	13.2	48.89
1457+00	13.2	48.89	1495+00	13.2	48.89
1458+00	13.2	48.89	1496+00	13.2	48.89
1459+00	13.2	48.89	1497+00	13.2	48.89
1460+00	13.2	48.89	1498+00	13.2	48.89
1461+00	13.2	48.89	1499+00	13.2	48.89
1462+00	13.2	48.89	1500+00	13.2	48.89
1463+00	13.2	48.89	1501+00	13.2	48.89
1464+00	13.2	48.89	1502+00	13.2	48.89
1465+00	13.2	48.89	1503+00	13.2	48.89
1466+00	13.2	48.89	1504+00	13.2	48.89
1467+00	13.2	48.89	1505+00	13.2	48.89
1468+00	13.2	48.89	1506+00	13.2	48.89
1469+00	13.2	48.89	1507+00	13.2	48.89
1470+00	13.2	48.89	1508+00	13.2	48.89
1471+00	13.2	48.89	1509+00	13.2	48.89
1472+00	13.2	48.89	1510+00	13.2	48.89
1473+00	13.2	48.89	1511+00	13.2	48.89
1474+00	13.2	48.89	1512+00	13.2	48.89
1475+00	13.2	48.89	1513+00	13.2	48.89
1476+00	13.2	48.89	1514+00	13.2	48.89
1477+00	13.2	48.89	1515+00	13.2	48.89
1478+00	13.2	48.89	1516+00	13.2	48.89
1479+00	13.2	48.89	1517+00	13.2	48.89
1480+00	13.2	48.89	1518+00	13.2	48.89
1481+00	13.2	48.89	1519+00	13.2	48.89
1482+00	13.2	48.89	1520+00	13.2	48.89
1483+00	13.2	48.89	1521+00	13.2	48.89
1484+00	13.2	48.89	1522+00	13.2	48.89
1485+00	13.2	48.89	1523+00	13.2	48.89
1486+00	13.2	48.89	1524+00	13.2	48.89
1487+00	13.2	48.89	1525+00	13.2	48.89
1488+00	13.2	48.89	1526+00	13.2	48.89
1489+00	13.2	48.89	1527+00	13.2	48.89
1490+00	13.2	48.89	1528+00	13.2	48.89
1491+00	13.2	48.89	1529+00	13.2	48.89
1492+00	13.2	48.89	1530+00	13.2	48.89

Asphalt Treated Base (ATB)	306.0001.0000
Eng. Estimate Quantity = 34,900 Tons	34,900
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1531+00	13.2	48.89	1569+00	17.16	63.56
1532+00	13.2	48.89	1570+00	17.16	63.56
1533+00	13.2	48.89	1571+00	17.16	63.56
1534+00	13.2	48.89	1572+00	17.16	63.56
1535+00	13.2	48.89	1573+00	17.16	63.56
1536+00	13.2	48.89	1574+00	17.16	63.56
1537+00	13.2	48.89	1575+00	17.16	63.56
1538+00	13.2	48.89	1576+00	17.16	63.56
1539+00	13.2	48.89	1577+00	17.16	63.56
1540+00	13.2	48.89	1578+00	17.16	63.56
1541+00	13.2	48.89	1579+00	17.16	63.56
1542+00	13.2	48.89	1580+00	17.16	63.56
1543+00	19.8	61.11	1581+00	17.16	63.56
1544+00	29.7	91.67	1582+00	17.16	63.56
1545+00	23.1	97.78	1583+00	17.16	63.56
1546+00	13.2	67.22	1584+00	17.16	63.56
1547+00	13.2	48.89	1585+00	17.16	63.56
1548+00	13.67	49.76	1586+00	17.16	63.56
1549+00	14.14	51.50	1587+00	17.16	63.56
1550+00	14.61	53.24	1588+00	17.16	63.56
1551+00	15.09	55.00	1589+00	17.16	63.56
1552+00	15.56	56.76	1590+00	17.16	63.56
1553+00	16.03	58.50	1591+00	17.16	63.56
1554+00	16.5	60.24	1592+00	17.16	63.56
1555+00	16.97	61.98	1593+00	17.16	63.56
1556+00	17.16	63.20	1594+00	17.16	63.56
1557+00	17.16	63.56	1595+00	17.16	63.56
1558+00	17.16	63.56	1596+00	17.16	63.56
1559+00	17.16	63.56	1597+00	17.16	63.56
1560+00	17.16	63.56	1598+00	17.16	63.56
1561+00	17.16	63.56	1599+00	17.16	63.56
1562+00	17.16	63.56	1600+00	17.87	64.87
1563+00	17.16	63.56	1601+00	18.57	67.48
1564+00	17.16	63.56	1602+00	19.28	70.09
1565+00	17.16	63.56	1603+00	19.56	71.93
1566+00	17.16	63.56	1604+00	19.56	72.44
1567+00	17.16	63.56	1605+00	19.28	71.93
1568+00	17.16	63.56	1606+00	18.57	70.09

Asphalt Treated Base (ATB)	306.0001.0000
Eng. Estimate Quantity = 34,900 Tons	34,900
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1607+00	17.87	67.48	1645+00	17.16	63.56
1608+00	17.16	64.87	1646+00	17.16	63.56
1609+00	17.16	63.56	1647+00	17.16	63.56
1610+00	17.16	63.56	1648+00	17.16	63.56
1611+00	17.16	63.56	1649+00	17.16	63.56
1612+00	17.16	63.56	1650+00	17.16	63.56
1613+00	17.16	63.56	1651+00	17.16	63.56
1614+00	17.16	63.56	1652+00	33.66	94.11
1615+00	17.16	63.56	1653+00	33.66	124.67
1616+00	17.16	63.56	1654+00	33.66	124.67
1617+00	17.16	63.56	1655+00	33.66	124.67
1618+00	17.16	63.56	1656+00	17.16	94.11
1619+00	17.16	63.56	1657+00	17.16	63.56
1620+00	17.16	63.56	1658+00	17.16	63.56
1621+00	17.16	63.56	1659+00	17.16	63.56
1622+00	17.16	63.56	1660+00	17.16	63.56
1623+00	17.16	63.56	1661+00	17.16	63.56
1624+00	17.16	63.56	1662+00	17.16	63.56
1625+00	17.16	63.56	1663+00	17.16	63.56
1626+00	17.16	63.56	1664+00	17.16	63.56
1627+00	17.16	63.56	1665+00	17.16	63.56
1628+00	17.16	63.56	1666+00	17.16	63.56
1629+00	17.16	63.56	1667+00	17.16	63.56
1630+00	17.16	63.56	1668+00	17.16	63.56
1631+00	17.16	63.56	1669+00	17.16	63.56
1632+00	17.16	63.56	1670+00	17.16	63.56
1633+00	17.16	63.56	1671+00	17.16	63.56
1634+00	17.16	63.56	1672+00	17.16	63.56
1635+00	17.16	63.56			
1636+00	17.16	63.56			
1637+00	17.16	63.56			
1638+00	17.16	63.56			
1639+00	17.16	63.56			
1640+00	17.16	63.56			
1641+00	17.16	63.56			
1642+00	17.16	63.56			
1643+00	17.16	63.56			
1644+00	17.16	63.56			
			Total Volume (CY)		15827.37

Asphalt Binder, Type PG 52-28		306.0002.5228
Eng. Estimate Quantity =	1,730 Tons	1,730
		Tons

	Weight	Units
306.00001.0000 - ATB	34,900	Tons
Estimating Factor (% of ATB)	4.50%	
Base Bid Subtotal:	1,571	Tons
10% Contingency:	1,730	Tons

HMA, Type II, Class B	401.0001.002B
Eng. Estimate Quantity = 18,390 Tons	18,390
	Tons

Total Volume	8191.05	CY	
Estimating Factor	2.04	TON/CY	
Total Weight	16709.73	TON	[Total Weight = (Total Volume) * (Estimating Factor)]
w/ 10% Contingency	18390	TON	[= (Total Weight) * 1.1]

Mainline			[Volume=((1394+00)-(1393+00))*average(6.8, 6.8)]/27]		
STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1393+00	6.8		1424+00	6.8	25.19
1394+00	6.8	25.19	1425+00	6.8	25.19
1395+00	6.8	25.19	1426+00	6.8	25.19
1396+00	6.8	25.19	1427+00	6.8	25.19
1397+00	6.8	25.19	1428+00	6.8	25.19
1398+00	6.8	25.19	1429+00	6.8	25.19
1399+00	6.8	25.19	1430+00	6.8	25.19
1400+00	6.8	25.19	1431+00	6.8	25.19
1401+00	6.8	25.19	1432+00	6.8	25.19
1402+00	6.8	25.19	1433+00	6.8	25.19
1403+00	6.8	25.19	1434+00	6.8	25.19
1404+00	6.8	25.19	1435+00	6.8	25.19
1405+00	6.8	25.19	1436+00	6.8	25.19
1406+00	6.8	25.19	1437+00	6.8	25.19
1407+00	6.8	25.19	1438+00	6.8	25.19
1408+00	6.8	25.19	1439+00	6.8	25.19
1409+00	6.8	25.19	1440+00	6.8	25.19
1410+00	6.8	25.19	1441+00	6.8	25.19
1411+00	6.8	25.19	1442+00	6.8	25.19
1412+00	6.8	25.19	1443+00	6.8	25.19
1413+00	6.8	25.19	1444+00	6.8	25.19
1414+00	6.8	25.19	1445+00	6.8	25.19
1415+00	6.8	25.19	1446+00	6.8	25.19
1416+00	6.8	25.19	1447+00	6.8	25.19
1417+00	6.8	25.19	1448+00	6.8	25.19
1418+00	6.8	25.19	1449+00	6.8	25.19
1419+00	6.8	25.19	1450+00	6.8	25.19
1420+00	6.8	25.19	1451+00	6.8	25.19
1421+00	6.8	25.19	1452+00	6.8	25.19
1422+00	6.8	25.19	1453+00	6.8	25.19
1423+00	6.8	25.19	1454+00	6.8	25.19

HMA, Type II, Class B	401.0001.002B
Eng. Estimate Quantity = 18,390 Tons	18,390
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1455+00	6.8	25.19	1493+00	6.8	25.19
1456+00	6.8	25.19	1494+00	6.8	25.19
1457+00	6.8	25.19	1495+00	6.8	25.19
1458+00	6.8	25.19	1496+00	6.8	25.19
1459+00	6.8	25.19	1497+00	6.8	25.19
1460+00	6.8	25.19	1498+00	6.8	25.19
1461+00	6.8	25.19	1499+00	6.8	25.19
1462+00	6.8	25.19	1500+00	6.8	25.19
1463+00	6.8	25.19	1501+00	6.8	25.19
1464+00	6.8	25.19	1502+00	6.8	25.19
1465+00	6.8	25.19	1503+00	6.8	25.19
1466+00	6.8	25.19	1504+00	6.8	25.19
1467+00	6.8	25.19	1505+00	6.8	25.19
1468+00	6.8	25.19	1506+00	6.8	25.19
1469+00	6.8	25.19	1507+00	6.8	25.19
1470+00	6.8	25.19	1508+00	6.8	25.19
1471+00	6.8	25.19	1509+00	6.8	25.19
1472+00	6.8	25.19	1510+00	6.8	25.19
1473+00	6.8	25.19	1511+00	6.8	25.19
1474+00	6.8	25.19	1512+00	6.8	25.19
1475+00	6.8	25.19	1513+00	6.8	25.19
1476+00	6.8	25.19	1514+00	6.8	25.19
1477+00	6.8	25.19	1515+00	6.8	25.19
1478+00	6.8	25.19	1516+00	6.8	25.19
1479+00	6.8	25.19	1517+00	6.8	25.19
1480+00	6.8	25.19	1518+00	6.8	25.19
1481+00	6.8	25.19	1519+00	6.8	25.19
1482+00	6.8	25.19	1520+00	6.8	25.19
1483+00	6.8	25.19	1521+00	6.8	25.19
1484+00	6.8	25.19	1522+00	6.8	25.19
1485+00	6.8	25.19	1523+00	6.8	25.19
1486+00	6.8	25.19	1524+00	6.8	25.19
1487+00	6.8	25.19	1525+00	6.8	25.19
1488+00	6.8	25.19	1526+00	6.8	25.19
1489+00	6.8	25.19	1527+00	6.8	25.19
1490+00	6.8	25.19	1528+00	6.8	25.19
1491+00	6.8	25.19	1529+00	6.8	25.19
1492+00	6.8	25.19	1530+00	6.8	25.19

HMA, Type II, Class B	401.0001.002B
Eng. Estimate Quantity = 18,390 Tons	18,390
	Tons

STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1531+00	6.8	25.19	1569+00	8.84	32.74
1532+00	6.8	25.19	1570+00	8.84	32.74
1533+00	6.8	25.19	1571+00	8.84	32.74
1534+00	6.8	25.19	1572+00	8.84	32.74
1535+00	6.8	25.19	1573+00	8.84	32.74
1536+00	6.8	25.19	1574+00	8.84	32.74
1537+00	6.8	25.19	1575+00	8.84	32.74
1538+00	6.8	25.19	1576+00	8.84	32.74
1539+00	6.8	25.19	1577+00	8.84	32.74
1540+00	6.8	25.19	1578+00	8.84	32.74
1541+00	6.8	25.19	1579+00	8.84	32.74
1542+00	6.8	25.19	1580+00	8.84	32.74
1543+00	10.2	31.48	1581+00	8.84	32.74
1544+00	15.3	47.22	1582+00	8.84	32.74
1545+00	11.9	50.37	1583+00	8.84	32.74
1546+00	6.8	34.63	1584+00	8.84	32.74
1547+00	6.8	25.19	1585+00	8.84	32.74
1548+00	7.04	25.63	1586+00	8.84	32.74
1549+00	7.29	26.54	1587+00	8.84	32.74
1550+00	7.53	27.44	1588+00	8.84	32.74
1551+00	7.77	28.33	1589+00	8.84	32.74
1552+00	8.01	29.22	1590+00	8.84	32.74
1553+00	8.26	30.13	1591+00	8.84	32.74
1554+00	8.5	31.04	1592+00	8.84	32.74
1555+00	8.74	31.93	1593+00	8.84	32.74
1556+00	8.84	32.56	1594+00	8.84	32.74
1557+00	8.84	32.74	1595+00	8.84	32.74
1558+00	8.84	32.74	1596+00	8.84	32.74
1559+00	8.84	32.74	1597+00	8.84	32.74
1560+00	8.84	32.74	1598+00	8.84	32.74
1561+00	8.84	32.74	1599+00	8.84	32.74
1562+00	8.84	32.74	1600+00	9.2	33.41
1563+00	8.84	32.74	1601+00	9.57	34.76
1564+00	8.84	32.74	1602+00	9.93	36.11
1565+00	8.84	32.74	1603+00	10.08	37.06
1566+00	8.84	32.74	1604+00	10.08	37.33
1567+00	8.84	32.74	1605+00	9.93	37.06
1568+00	8.84	32.74	1606+00	9.57	36.11

HMA, Type II, Class B	401.0001.002B
Eng. Estimate Quantity = 18,390 Tons	18,390
	Tons

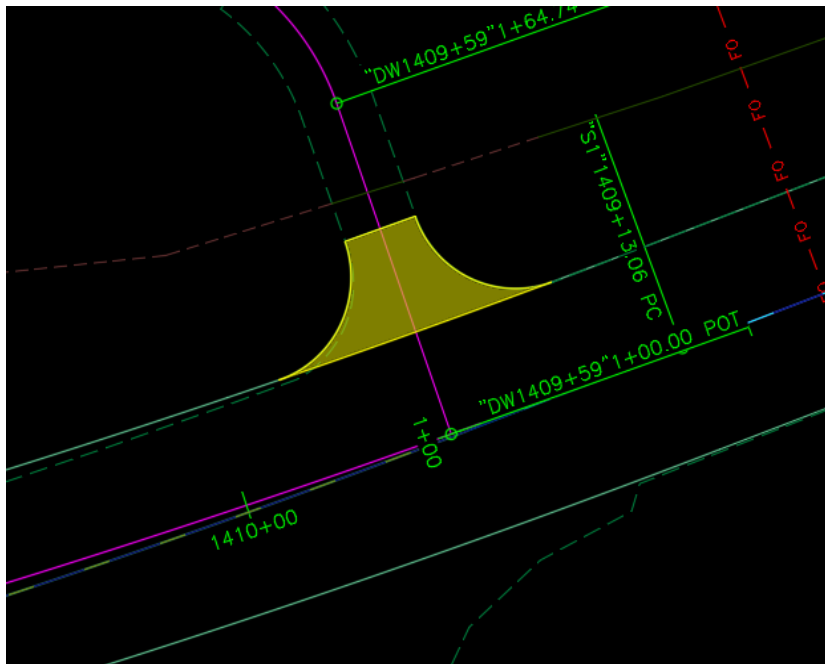
STA	Area (SF)	Volume (CY)	STA	Area (SF)	Volume (CY)
1607+00	9.2	34.76	1645+00	8.84	32.74
1608+00	8.84	33.41	1646+00	8.84	32.74
1609+00	8.84	32.74	1647+00	8.84	32.74
1610+00	8.84	32.74	1648+00	8.84	32.74
1611+00	8.84	32.74	1649+00	8.84	32.74
1612+00	8.84	32.74	1650+00	8.84	32.74
1613+00	8.84	32.74	1651+00	8.84	32.74
1614+00	8.84	32.74	1652+00	17.34	48.48
1615+00	8.84	32.74	1653+00	17.34	64.22
1616+00	8.84	32.74	1654+00	17.34	64.22
1617+00	8.84	32.74	1655+00	17.34	64.22
1618+00	8.84	32.74	1656+00	8.84	48.48
1619+00	8.84	32.74	1657+00	8.84	32.74
1620+00	8.84	32.74	1658+00	8.84	32.74
1621+00	8.84	32.74	1659+00	8.84	32.74
1622+00	8.84	32.74	1660+00	8.84	32.74
1623+00	8.84	32.74	1661+00	8.84	32.74
1624+00	8.84	32.74	1662+00	8.84	32.74
1625+00	8.84	32.74	1663+00	8.84	32.74
1626+00	8.84	32.74	1664+00	8.84	32.74
1627+00	8.84	32.74	1665+00	8.84	32.74
1628+00	8.84	32.74	1666+00	8.84	32.74
1629+00	8.84	32.74	1667+00	8.84	32.74
1630+00	8.84	32.74	1668+00	8.84	32.74
1631+00	8.84	32.74	1669+00	8.84	32.74
1632+00	8.84	32.74	1670+00	8.84	32.74
1633+00	8.84	32.74	1671+00	8.84	32.74
1634+00	8.84	32.74	1672+00	8.84	32.74
1635+00	8.84	32.74			
1636+00	8.84	32.74			
1637+00	8.84	32.74			
1638+00	8.84	32.74			
1639+00	8.84	32.74			
1640+00	8.84	32.74			
1641+00	8.84	32.74			
1642+00	8.84	32.74			
1643+00	8.84	32.74			
1644+00	8.84	32.74			
			Total Volume (CY)		8153.48

HMA, Type II, Class B		401.0001.002B
Eng. Estimate Quantity =	18,390 Tons	
	18,390	
		Tons

Approaches			[Volume=Area*Thickness/27]
STA	Area (SF)	Thickness (FT)	Volume (CY)
1409+59	459	0.17	2.89
1447+82	876	0.17	5.52
1536+00	855	0.17	5.38
1577+41	958	0.17	6.03
1595+22	814	0.17	5.13
1614+07	831	0.17	5.23
1661+47	1173	0.17	7.39

Total Volume (CY) 37.56

*Approach areas calculated from autocad, example below



Asphalt Binder, Grade PG 52-40	401.0004.5240
Eng. Estimate Quantity = 1,120 Tons	1,120
	Tons

	Weight	Units
401.0001.002B - HMA:	18,390	Tons
Estimating Factor (% of HMA)	5.50%	
Base Bid Subtotal:	1,011	Tons
10% Contingency:	1,120	Tons

STE-1 Asphalt for Tack Coat	402.0001.STE1
Eng. Estimate Quantity = 110 Tons	
110	
	Tons

	AREA (SY)	TACK COAT (TONS)	REMARKS
2" HMA	143,376	34.41	
4" ATB	143,376	68.82	2 LIFTS

BASE BID SUBTOTAL:	103	TON
7% CONTINGENCY:	7	TON
BASE BID TOTAL:	110	TON

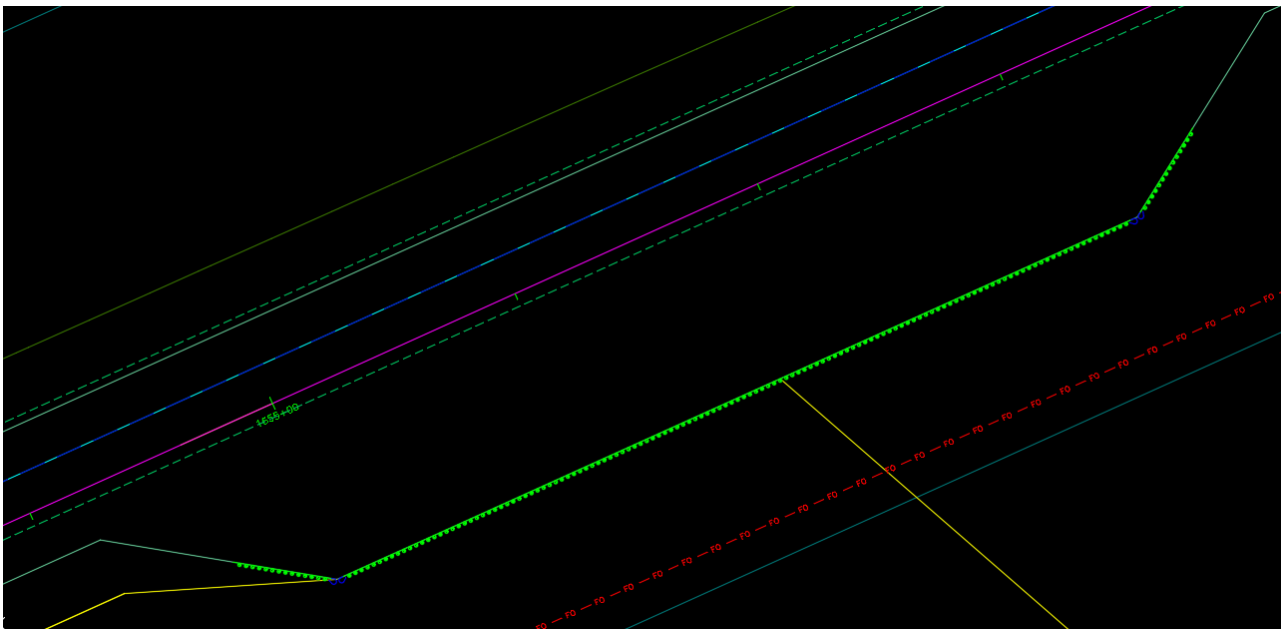
*Area calculated from Cad

W-Beam Guardrail	606.0001.0000
Eng. Estimate Quantity = 400 LF	400
	Linear Foot

Begin STA	End STA	Offset	Length (LF)
1651+42	1651+73	LT	37.5
1651+78	1655+03	LT	325
1655+07	1655+38	LT	37.5

Total Length (LF) 400.0

*Lengths from CAD



Removing and Disposing of Guardrail	606.0006.0000
Eng. Estimate Quantity = 8,004.2 LF	8,004.2
	Linear Foot

Begin Sta.	End Sta.	Offset Distance	Offset Side	Length (ft)
1398+26.8	1407+42.4	21'	RT	915.7
1398+84.5	1408+25.2	19'	LT	940.8
1488+66.7	1499+51.0	356.4' to 650.0'	LT	1292.8
1546+01.4	1555+89.0	55.4' to 419.8'	LT	1099.0
1572+90.9	1582+04.8	13.9' to 531.4'	LT	1110.0
1575+07.2	1579+96.9	11.4' to 305.1	RT to LT	597.9
1588+66.4	1600+98.8	588.5' to 26.2'	LT	1447.5
1596+49.8	1602+45.5	25'	RT to LT	600.5
Total				8004.2 ft

Geotextile, Separation, Class 3	630.0001.0003
Eng. Estimate Quantity = 109,930 SY	109,930
	Square Yards

Geotext at areas where Select A is min of 2.5ft

Begin Sta	End Sta	Areas from CAD (SF)
1465+00	1485+00	138,044
1508+00	1549+00	386,278
1591+50	1640+50	464,978
	Total	989,300 SF
	Total	109922.2 SY

Geotextile, Erosion Control, Class 1	631.0002.0001
Eng. Estimate Quantity = 2,139 SY	2,139
	Square Yards

Geotextile under Riprap

Riprap Sta	Length	Perimeter	Area (SF)	
1429+00	21.1	24	506.4	
1472+42	197.3	24	4735.2	
1529+77	223.9	24	5373.6	
1619+00	37.8	24	907.2	
1626+00	80.9	24	1941.6	
1636+00	78.3	24	1879.2	
1648+00	80.0	24	1920	
1660+00	82.7	24	1984.8	
		Total	19248	SF
		Total	2139	SY

Painted Traffic Markings	670.0001.0000
Eng. Estimate Quantity = 99,590 Linear Feet	ALL REQUIRED
	LS - Lump Sum

Description	Length (ft)
4" Solid White	55,070
4" White Skip	8,740
8" Solid White	480
4" Double Yellow	18,100
4" Solid Yellow	7,400
4" Yellow skip	9,800
Total	99,590

Yellow Centerline

Begin Sta	End Sta	Length (ft)	Type
1393+00	1401+00	800	Single skip
1401+00	1412+00	1,100	Solid and skip
1412+00	1448+00	3,600	Double solid
1448+00	1460+00	1,200	Solid and skip
1460+00	1476+00	1,600	Single skip
1476+00	1488+00	1,200	Solid and skip
1488+00	1560+00	7,200	Double solid
1560+00	1599+00	3,900	Solid and skip
1599+00	1672+00	7,300	Double solid

Single skip Solid and skip Double solid

Total (LF)	2,400	7,400	18,100
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4" Solid White Line

Begin Sta	End Sta	Length (ft)	Remarks
1393+00	1672+00	27,900	RT
1393+00	1542+80	14,980	LT to first pullout
1545+30	1651+00	10,570	LT to second pullout
1655+80	1672+00	1,620	LT to third pullout

Total (LF)	55,070
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Painted Traffic Markings	670.0001.0000
Eng. Estimate Quantity = 99,590 Linear Feet	ALL REQUIRED
	LS - Lump Sum

4" White Skip

Begin Sta	End Sta	Length (ft)	Remarks
1604+60	1654+00	4,940	RT
1564+40	1602+40	3,800	LT

Total (LF) 8,740

8" Solid White Line

Begin Sta	End Sta	Length (ft)
1543+30	1544+80	150
1651+75	1655+05	330

Total (LF) 480

Lane Drop Arrows

Station	Number	Type
1555+50	1	ARROW
1560+00	1	ARROW
1564+50	1	ARROW
1653+95	1	ARROW
1658+45	1	ARROW
1662+95	1	ARROW

TOTAL 6

Total Line Length 99,590 LF