I-70 Cost Estimate Build-Up Alt05_Opt02

Roadway & Structures	Units	Quantity	Unit Cost	Cost
Structures - Basic	SF			$ -
Special Structures - Complex	SF			$ -
Special Structures - Fly-Over	SF			$ -
Special Structures - Viaduct	SF			$ -
Interchange - Basic	EA			$ -
Interchange - Complex	EA			$ -
Wildlife Crossings	LS			$ -
Walls - Cut	SF	2,886	$ 75	$ 216,454
Walls - Fill	SF	379,947	$ 50	$ 18,997,331
Excavation - Rock Cut	CY	505,101	$ 50	$ 25,255,070
Embankment	CY	179,307	$ 6	$ 1,075,844
Pavement Resurfacing	Ton	286,871	$ 80	$ 22,949,656
Pavement - Full Depth	Ton	71,172	$ 70	$ 4,982,018
Base Course	CY	50,091	$ 25	$ 1,252,276
Barrier - Type 7	LF	40,806	$ 50	$ 2,040,284
Barrier - Retaining	LF	7,201	$ 125	$ 900,125
Guardrail - Type 3	LF	30,619	$ 20	$ 612,370
ITS	LF			$ -
Transportation & Operation Center	LS			$ -
Tolling, Gates, & Controls	EA			$ -
Maintenance Resources	LS			$ -
Roadway & Structures Subtotal				$ 78,281,430

Alt05_Opt01: Walls

Walls - Cut	SF	2,624
Walls - Fill	SF	345,406

Wall Naming Convention: RWS#_####RT_#

RW = Retaining Wall

S# = Segment Name (S1, S2, S3, S4, S5, S6, S7)

= Furthest West Point where RW begins rounded down to nearest 100'.

So, if Wall is at Sta 2501+72.68, use 2501

RT or LT = RW is Left or Right of I-70 Control Line

= Sequence Number as needed, typically "1" but may need additional numbers

for tiered walls for example: RWS2_2501RT_1

Wall Name	Cut Wall Area (SF)	Fill Wall Area (SF)	Length (FT)	(H) Avg. Height (FT)
RWS5_50094LT_1		5,936.33	509.20	11.66
RWS5_50124LT_1			36.22	0.00
RWS5_50125RT_1		1,151.90	100.00	11.52
RWS5_50131RT_1		6,298.30	600.00	10.50
RWS5_50151LT_1		1,043.42	99.99	10.44
RWS5_50152RT_1		1,224.96	99.99	12.25
RWS5_50160RT_1	1,613.39		250.35	6.44
RWS5_50167RT_1		11,503.00	736.97	15.61
RWS5_50177RT_1		32,431.44	2,255.49	14.38
RWS5_50219RT_1		435.70	45.17	9.65
RWS5_50227RT_1		33,816.57	2,339.70	14.45
RWS5_50251LT_1	1,010.30		97.60	10.35
RWS5_50260RT_1		279.27	33.35	8.37
RWS5_50263RT_1		9,004.17	900.06	10.00
RWS5_50281RT_1		49,349.74	4,081.36	12.09
RWS5_50327RT_1		5,597.45	500.00	11.19
RWS5_50340RT_1		4,230.43	400.00	10.58
RWS5_50354RT_1		17,077.09	1,316.95	12.97
RWS5_50386RT_1		1,441.30	200.00	7.21
RWS5_50398RT_1		32,335.69	2,433.38	13.29
RWS5_50425RT_1		29,098.38	2,205.44	13.19
RWS5_50449RT_1		3,194.57	329.92	9.68
RWS5_50461RT_1		89.66	16.03	5.59
RWS5_50464RT_1		877.65	101.78	8.62
RWS5_50469RT_1		38,188.88	2,593.45	14.73
RWS5_50513LT_1		815.78	99.99	8.16
RWS5_50517LT_1		2,606.30	206.20	12.64
RWS5_50522LT_1		2,652.39	221.36	11.98
RWS5_50523RT_1		1,042.30	99.99	10.42
RWS5_50532LT_1		12,107.96	1,181.71	10.25
RWS6_60005LT_1		2,150.62	196.16	10.96

RWS6_60092RT_1		28,110.08	2,078.66	13.52
RWS6_60156RT_1		5,945.06	608.69	9.77
RWS6_60169RT_1		4,781.64	583.57	8.19
RWS6_60193RT_1		588.01	47.49	12.38
Total:	**2,623.69**	**345,406.02**	**27,606.20**	

Verify the Average Height is reasonable!

Alt05_Opt01: Pavement

Pavement Resurfacing	Ton	286,871
Pavement - Full Depth	Ton	71,172
Base Course	CY	50,091

Assumptions:

HMA Overlay:	3.5	inches
HMA Full Depth:	7.5	inches
Base Course:	8	inches

Name	Begin Station	End Station	Pavement Area (SF)	Length (LF)	Total "Edge" Length (LF)	Total "Edge" Length (LF)	Pavement Volume (CY)		Base Course (CY)
					Taper	Vertical	Overlay	Full Depth	
Full Depth Pavement Shape									
S5 I-70 Westbound	50050+11.00	50116+61.00	98,910	6,650	6,650	6,650		2,367	3,017
S5 I-70 Westbound	50103+18.00	50126+12.00	8,228	2,294	2,294	2,294		217	401
S5 I-70 Westbound	50116+53.00	50118+38.00	841	185	185	185		22	37
S5 I-70 Westbound	50119+18.00	50149+54.00	23,279	3,036	3,036	3,036		574	837
S5 I-70 Westbound	50127+00.00	50149+97.00	17,747	2,297	2,297	2,297		437	637
S5 I-70 Westbound	50151+15.00	50175+68.00	28,511	2,453	2,453	2,453		688	916
S5 I-70 Westbound	50151+58.00	50175+25.00	11,044	2,367	2,367	2,367		283	477
S5 I-70 Westbound	50176+86.00	50190+29.00	6,970	1,343	1,343	1,343		177	288
S5 I-70 Westbound	50177+29.00	50181+68.00	3,821	439	439	439		94	132
S5 I-70 Westbound	50191+27.00	50191+81.00	127	54	54	54		4	8
S5 I-70 Westbound	50191+03.00	50207+65.00	8,167	1,662	1,662	1,662		208	345
S5 I-70 Westbound	50196+86.00	50204+48.00	5,039	762	762	762		125	190
S5 I-70 Westbound	50206+62.00	50212+31.00	6,351	569	569	569		154	206
S5 I-70 Westbound	50208+66.00	50212+33.00	1,580	367	367	367		41	71
S5 I-70 Westbound	50213+53.00	50218+42.00	5,672	489	489	489		137	182
S5 I-70 Westbound	50213+53.00	50216+67.00	1,725	314	314	314		44	70
S5 I-70 Westbound	50220+52.00	50269+96.00	50,881	4,944	4,944	4,944		1,235	1,684

S5 I-70 Westbound	50228+51.00	50240+19.00	4,824	1,168	1,168	1,168		125	220
S5 I-70 Westbound	50240+19.00	50373+94.00	101,479	13,375	13,375	13,375		2,504	3,662
S5 I-70 Westbound	50271+84.00	50365+46.00	74,759	9,362	9,362	9,362		1,839	2,655
S5 I-70 Westbound	50373+48.00	50376+76.00	2,555	328	328	328		63	91
S5 I-70 Westbound	50375+39.00	50392+32.00	16,863	1,693	1,693	1,693		410	563
S5 I-70 Westbound	50377+48.00	50378+29.00	176	81	81	81		5	11
S5 I-70 Westbound	50380+83.00	50393+11.00	6,734	1,228	1,228	1,228		170	272
S5 I-70 Westbound	50394+87.00	50396+85.00	1,010	198	198	198		26	42
S5 I-70 Westbound	50395+29.00	50458+73.00	66,229	6,344	6,344	6,344		1,607	2,184
S5 I-70 Westbound	50397+04.00	50397+83.00	825	79	79	79		20	27
S5 I-70 Westbound	50402+34.00	50437+55.00	23,143	3,521	3,521	3,521		576	876
S5 I-70 Westbound	50448+84.00	50453+76.00	1,922	492	492	492		50	90
S5 I-70 Westbound	50453+94.00	50458+48.00	3,278	454	454	454		81	120
S5 I-70 Westbound	50460+48.00	50515+11.00	36,121	5,463	5,463	5,463		899	1,364
S5 I-70 Westbound	50461+48.00	50473+54.00	7,324	1,206	1,206	1,206		183	285
S5 I-70 Westbound	50474+21.00	50476+01.00	1,109	180	180	180		28	43
S5 I-70 Westbound	50478+16.00	50493+86.00	8,615	1,570	1,570	1,570		218	348
S5 I-70 Westbound	50495+33.00	50506+26.00	11,019	1,093	1,093	1,093		268	367
S5 I-70 Westbound	50505+67.00	50515+76.00	10,088	1,009	1,009	1,009		245	336
S5 I-70 Westbound	50517+42.00	50521+65.00	1,674	423	423	423		44	78
S5 I-70 Westbound	50517+96.00	50521+65.00	4,357	369	369	369		105	139
S5 I-70 Westbound	50522+89.00	50548+26.57	17,848	2,538	2,538	2,538		443	660
S5 I-70 Westbound	50522+87.00	50548+26.57	24,288	2,540	2,540	2,540		592	819
S5 I-70 Managed Lanes	+00.00	+00.00	0	0		0		0	0
S6 I-70 Eastbound	60000+00.00	60028+09.00	52,060	2,809	2,809	2,809		1,238	1,528
S6 I-70 Eastbound	60016+75.00	60027+31.00	3,036	1,056	1,056	1,056		83	166
S6 I-70 Eastbound	60028+05.00	60031+23.00	741	318	318	318		21	46
S6 I-70 Eastbound	60028+93.00	60035+49.00	8,522	656	656	656		205	267
S6 I-70 Eastbound	60035+97.00	60041+34.00	8,776	537	537	537		209	263
S6 I-70 Eastbound	60041+34.00	60044+60.00	1,093	326	326	326		29	55
S6 I-70 Eastbound	60052+74.00	60054+64.00	577	190	190	190		16	31
S6 I-70 Eastbound	60067+52.00	60081+31.00	9,844	1,379	1,379	1,379		244	362
S6 I-70 Eastbound	60073+35.00	60074+81.00	325	146	146	146		9	21
S6 I-70 Eastbound	60080+03.00	60081+31.00	555	128	128	128		14	25

S6 I-70 Eastbound	60088+24.00	60090+27.00	706	203	203	203		19	35
S6 I-70 Eastbound	60088+25.00	60112+53.00	31,250	2,428	2,428	2,428		751	981
S6 I-70 Eastbound	60090+69.00	60092+20.00	351	151	151	151		10	22
S6 I-70 Eastbound	60114+82.00	60119+99.00	4,313	517	517	517		106	151
S6 I-70 Eastbound	60119+87.00	60120+00.00	66	13	13	13		2	3
S6 I-70 Eastbound	60129+38.00	60129+65.00	55	27	27	27		2	4
S6 I-70 Eastbound	60133+41.00	60134+06.00	190	65	65	65		5	10
S6 I-70 Eastbound	60144+11.00	60181+67.00	45,495	3,756	3,756	3,756		1,097	1,448
S6 I-70 Eastbound	60157+37.00	60171+65.50	7,135	1,429	1,429	1,429		182	300
S6 I-70 Eastbound	60174+01.00	60175+17.00	256	116	116	116		7	16
S6 I-70 Eastbound	60177+95.00	60193+71.00	22,393	1,576	1,576	1,576		537	689
S6 I-70 Eastbound	60186+44.00	60193+58.00	4,664	714	714	714		116	177
S6 I-70 Eastbound	60197+47.00	60199+06.00	540	159	159	159		14	27
S6 I-70 Eastbound	60198+13.00	60201+91.00	3,059	378	378	378		75	108
S6 I-70 Eastbound	60201+69.00	60317+02.00	201,253	11,533	11,533	11,533		4,792	5,966
S6 I-70 Eastbound	60209+29.00	60211+02.00	514	173	173	173		14	28
S6 I-70 Eastbound	60264+80.00	60268+00.00	881	320	320	320		24	49
S6 I-70 Eastbound	60317+25.00	60321+29.00	2,661	404	404	404		66	101
S6 I-70 Eastbound	60319+81.00	60322+54.00	713	273	273	273		20	41
S6 I-70 Westbound	60000+00.00	60016+87.00	10,118	1,687	1,687	1,687		254	396
S6 I-70 Westbound	60000+00.00	60020+78.00	28,310	2,078	2,078	2,078		679	879
S6 I-70 Westbound	60021+01.00	60022+70.00	2,436	169	169	169		58	75
S6 I-70 Westbound	60023+42.00	60026+47.00	4,477	305	305	305		107	137
S6 I-70 Westbound	60027+24.00	60030+01.00	3,603	277	277	277		87	113
S6 I-70 Westbound	60029+91.00	60037+03.00	4,642	712	712	712		116	176
S6 I-70 Westbound	60030+88.00	60041+46.00	2,901	1,058	1,058	1,058		79	163
S6 I-70 Westbound	60044+54.00	60054+55.00	5,178	1,001	1,001	1,001		131	214
S6 I-70 Westbound	60056+47.00	60059+52.00	1,986	305	305	305		50	75
S6 I-70 Westbound	60059+28.00	60080+84.00	30,292	2,156	2,156	2,156		726	934
S6 I-70 Westbound	60088+24.00	60088+90.00	171	66	66	66		5	10
S6 I-70 Westbound	60088+24.00	60094+78.00	8,628	654	654	654		207	270
S6 I-70 Westbound	60093+06.00	60113+19.50	33,645	2,014	2,014	2,014		802	1,005
S6 I-70 Westbound	60113+04.00	60114+21.00	594	117	117	117		15	25
S6 I-70 Westbound	60115+43.00	60126+37.00	7,784	1,094	1,094	1,094		193	287

S6 I-70 Westbound	60115+96.00	60117+96.00	1,403	200	200	200		35	52
S6 I-70 Westbound	60117+99.00	60118+97.00	252	98	98	98		7	15
S6 I-70 Westbound	60119+81.00	60121+18.00	587	137	137	137		15	26
S6 I-70 Westbound	60121+80.00	60122+30.00	494	50	50	50		12	17
S6 I-70 Westbound	60127+41.00	60128+89.00	973	148	148	148		24	37
S6 I-70 Westbound	60131+75.00	60177+01.00	54,836	4,526	4,526	4,526		1,322	1,745
S6 I-70 Westbound	60132+84.00	60133+49.00	351	65	65	65		9	14
S6 I-70 Westbound	60157+84.00	60165+16.00	2,982	732	732	732		78	137
S6 I-70 Westbound	60176+63.00	60193+54.00	8,679	1,691	1,691	1,691		220	360
S6 I-70 Westbound	60182+15.00	60191+26.00	5,282	911	911	911		133	209
S6 I-70 Westbound	60189+01.00	60193+45.00	4,115	444	444	444		100	140
S6 I-70 Westbound	60194+23.00	60194+57.00	159	34	34	34		4	7
S6 I-70 Westbound	60198+73.00	60209+34.00	12,578	1,061	1,061	1,061		303	402
S6 I-70 Westbound	60199+09.00	60201+04.00	1,055	195	195	195		27	43
S6 I-70 Westbound	60206+97.00	60207+75.00	217	78	78	78		6	12
S6 I-70 Westbound	60210+94.00	60265+04.00	41,099	5,410	5,410	5,410		1,014	1,482
S6 I-70 Westbound	60214+00.00	60227+23.00	6,328	1,323	1,323	1,323		162	271
S6 I-70 Westbound	60227+41.00	60282+17.00	30,327	5,476	5,476	5,476		765	1,222
S6 I-70 Westbound	60267+74.50	60318+53.00	38,024	5,079	5,079	5,079		939	1,378
S6 I-70 Westbound	60320+01.00	60320+30.00	254	29	29	29		6	9
S6 I-70 Westbound	60320+47.00	60325+67.00	1,608	520	520	520		43	85
			0						
			0						
Overlay Pavement Shape									
S6 I-70 Eastbound	60000+00.00	60027+65.00	100,210				1,083		
	60028+40.00	60054+60.00	121,216				1,309		
	60056+52.00	60081+31.00	117,181				1,266		
	60088+25.00	60112+90.00	97,035				1,048		
	60115+15.00	60126+36.00	60,787				657		
	60127+42.00	60129+27.00	9,152				99		
	60132+34.00	60196+35.00	282,669				3,054		
	60197+81.00	60255+10.00	265,245				2,865		
	60255+10.00	60325+67.62	343,692				3,713		
S6 I-70 Westbound	60000+00.00	60026+91.00	106,206				1,147		

	60027+68.00	60054+51.00	134,592				1,454		
	60056+43.00	60080+84.00	93,622				1,011		
	60088+24.00	60113+68.00	89,919				971		
	60115+69.00	60126+37.00	53,871				582		
	60127+40.00	60128+35.00	4,437				48		
	60131+55.00	60194+57.00	282,880				3,056		
	60198+93.00	60256+96.00	241,537				2,609		
	60256+96.00	60325+67.62	306,760				3,314		
Totals:							144,884	35,945	50,091
							80.1%	19.9%	

Note: Verify pavement shapes extend to back of barrier or back of wall as applicable. Do not include bridges. Do not include tunnels.

Note: "Edge" Length is used to account for additional pavement volume that extends beyond the edge of the shoulder in a standard section, based on the CDOT Typical Section for Divided Bituminous Pavement. If there is nothing that would confine the edge of pavement, show the length in the Taper column. If the edge of pavement would be vertical (straight), such as adjacent to a wall or other pavement (such as the managed lane next to GP lanes), show length in the Vertical column.

Note: Assume overlay in areas we are within 1.5' of existing ground, under the premise the profile can be adjusted in a future detailed design to get closer to an overlay section. Only apply if the overall length of the overlay is at least 1300'.

Alt05_Opt01: Guardrail and Barrier

Barrier - Type 7	LF	48,007
Barrier - Retaining	LF	0
Guardrail - Type 3	LF	30,619

Verify guardrail and barrier is shown correctly in *.dgn file, with only one line representing each run.
Select all linework by level as appropriate for each type.
Measure length, input above.

Segment	Barrier - Type 7	Barrier - Retaining	Guardrail - Type 3
S1			
S2			
S3			
S4			
S5	34,602.44		21,103.88
S6	13,404.25		9,514.63
S7			
Total:	**48,006.69**	**0.00**	**30,618.51**

Alt05_Opt01: Earthwork

Excavation - Rock Cut	CY	186,394	186394
Embankment	CY	145,248	145248

Segment S5 End Area Volume Reports from InRoads:

Alt05_Opt01: Earthwork

Excavation - Rock Cut	CY	318,707
Embankment	CY	34,059

Segment S6 End Area Volume Reports from InRoads:

The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

Basic Volume Report

Report Created: 5/6/2014
Time: 6:53pm

ross Section Set Name: I-70_EB_alg_2
Alignment Name: I-70_EB_alg
Note: All units in this report are in feet, square feet and cubic yards unless specified otherwise.

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60000+00.02	299.5	0	105.2	0	0
60001+00.00	404.7	1303.6	73.9	331.6	972
60002+00.00	185.8	1093.5	72.9	271.9	1793.6
60003+00.00	205.8	725.1	18.8	169.9	2348.9
60004+00.00	7.4	394.8	519.1	996.1	1747.6
60005+00.00	18.8	48.5	49.6	1053.2	742.9
60006+00.00	88.1	197.9	139.7	350.5	590.3
60007+00.00	46.1	248.5	139	516.1	322.7
60007+59.78		75.2		397.9	0
60008+00.00	21.8	125.7	220.4	665.6	-217.2
60009+00.00	21.4	80	245.2	862.2	-999.3
60010+00.00	245.1	493.5	25.1	500.5	-1006.3
60010+77.85		1043.1		36.8	0
60011+00.00	478.4	1339.9	0.4	47.2	286.3
60012+00.00	374	1578.5	9.2	17.8	1847.1
60013+00.00	257.1	1168.7	6.4	28.9	2986.9
60014+00.00	203.2	852.5	3.3	17.9	3821.5
60015+00.00	299.2	930.5	4.8	15	4736.9
60016+00.00	316.6	1140.5	4.9	18	5859.4
60017+00.00	205.4	966.7	21.7	49.3	6776.8

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60018+00.00	58.6	488.8	65.7	161.8	7103.9
60019+00.00	15.6	137.3	87	282.6	6958.6
60020+00.00	31.6	87.4	52.3	257.8	6788.2
60021+00.00	30.1	114.3	19.2	132.4	6770
60022+00.00	37.7	125.4	0	35.6	6859.8
60023+00.00	23.2	112.7	0	0	6972.5
60024+00.00	30.9	100.1	0	0	7072.7
60025+00.00	0	57.2	0	0	7129.8
60026+00.00	66.4	123	0	0	7252.8
60027+00.00	45.6	207.4	0	0	7460.2
60028+00.00	46.3	170.1	0	0	7630.4
60029+00.00	84.5	242.2	0	0	7872.6
60030+00.00	69.7	285.6	2.4	4.5	8153.7
60031+00.00	21.5	168.9	4	11.9	8310.7
60032+00.00	19.1	75.2	2.5	12	8373.9
60033+00.00	14.3	61.9	4.3	12.5	8423.2
60034+00.00	16.6	57.3	3.3	14.1	8466.5
60035+00.00	30.4	87	2.8	11.4	8542
60036+00.00	26.5	105.3	42.2	83.4	8564
60037+00.00	11.8	71	11.8	100	8535
60038+00.00	5.9	32.8	8.6	37.9	8529.9
60039+00.00	70.9	142.1	0	16	8656
60040+00.00	49.4	222.8	0	0	8878.8
60041+00.00	38.4	162.7	0	0	9041.5
60042+00.00	0	71.2	0	0	9112.7
60043+00.00	0	0	0	0	9112.7
60044+00.00	0	0	0	0	9112.7
60045+00.00	0	0	0	0	9112.7
60046+00.00	0	0	0	0	9112.7
60047+00.00	0	0	0	0	9112.7
60048+00.00	0	0	0	0	9112.7
60049+00.00	0	0	0	0	9112.7
60050+00.00	0	0	0	0	9112.7
60051+00.00	0	0	0	0	9112.7
60052+00.00	0	0	0	0	9112.7
60053+00.00	11.5	21.3	0	0	9133.9
60053+99.90	6.6	33.4	16.6	30.7	9136.6
60057+00.10	10.8	0	0	0	9136.6
60058+00.00	58	127.3	0	0	9263.9
60059+00.00	0	107.3	0	0	9371.3
60060+00.00	14.1	26.2	0.6	1	9396.4
60061+00.00	14.3	52.6	2.4	5.5	9443.5
60062+00.00	19.8	63.1	0.2	4.9	9501.7

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60063+00.00	18.4	70.8	0.8	2	9570.5
60064+00.00	19.9	71.1	0.5	2.4	9639.2
60065+00.00	17.4	69.1	1	2.7	9705.5
60066+00.00	17.4	64.5	0.7	3.1	9766.8
60067+00.00	15.8	61.6	2.1	5.1	9823.3
60068+00.00	44.4	111.6	1.3	6.3	9928.5
60069+00.00	42.4	160.8	14.5	29.3	10060
60070+00.00	34.1	141.7	1.2	29.1	10172.6
60071+00.00	35.3	128.5	1.6	5.2	10296
60072+00.00	30.8	122.3	2.9	8.3	10410
60073+00.00	24.9	103.1	13.8	30.9	10482.2
60074+00.00	15.5	74.8	112.5	233.9	10323.1
60075+00.00	18.2	62.4	84.7	365.2	10020.3
60076+00.00	17	65.2	60.7	269.1	9816.4
60077+00.00	20	68.5	33.1	173.6	9711.3
60078+00.00	62.5	152.7	7.6	75.3	9788.6
60079+00.00	961.5	1896.1	0.2	14.5	11670.2
60080+00.00	1947.7	5387.3	0.9	2.2	17055.3
60080+86.00	271.2	3533.7	0	1.5	20587.5
60088+24.00	79.7	0	0	0	20587.5
60089+00.00	2248.1	3276.2	251.4	353.8	23509.9
60090+00.00	6582.5	16353	2.7	470.5	39392.4
60091+00.00	4496.3	20516.3	1.1	7.1	59901.6
60092+00.00	2011.7	12051.8	31	59.5	71894
60093+00.00	585.7	4809.9	62.2	172.7	76531.2
60094+00.00	32.8	1145.4	77.4	258.6	77418.1
60095+00.00	32.7	121.3	122.3	369.8	77169.6
60096+00.00	13.1	84.8	113.9	437.3	76817.2
60097+00.00	5.2	34	145	479.4	76371.8
60098+00.00	7	22.6	128.8	507.1	75887.3
60099+00.00	15.3	41.3	58	346	75582.6
60100+00.00	11.5	49.6	43.1	187.2	75445.1
60101+00.00	10.8	41.2	41.2	156.1	75330.2
60102+00.00	13.1	44.3	41.8	153.8	75220.7
60103+00.00	13.5	49.3	38.3	148.4	75121.6
60104+00.00	11.1	45.6	43.8	152.1	75015.1
60105+00.00	10.7	40.5	40	155.2	74900.4
60106+00.00	14.1	46.1	20.9	112.8	74833.6
60107+00.00	14.5	53	20.9	77.5	74809.2
60108+00.00	13.1	51.1	28.4	91.4	74768.9
60109+00.00	14.5	51.2	25.7	100.3	74719.8
60110+00.00	13.9	52.6	15	75.4	74696.9
60111+00.00	11.8	47.5	13.7	53.2	74691.2

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60112+00.00	18.7	56.5	97	205.1	74542.6
60112+49.90	30.2	45.2	213.6	287.1	74300.8
60115+00.10	31.9	0	1.1	0	74300.8
60116+00.00	70.1	188.6	0	2	74487.4
60117+00.00	17.8	162.6	113.7	210.6	74439.5
60118+00.00	39.1	105.4	0.9	212.4	74332.5
60119+00.00	12.6	95.8	0	1.8	74426.6
60120+00.00	62.2	138.6	9.3	17.2	74548
60121+00.00	78.9	261.3	0	17.1	74792.2
60122+00.00	40.2	220.5	0.7	1.3	75011.3
60123+00.00	8.3	89.7	0	1.3	75099.7
60124+00.00	3.7	22.2	0	0	75121.9
60125+00.00	3.7	13.8	0	0	75135.7
60125+99.90	0	6.9	0	0	75142.6
60128+00.10	4.3	0	0	0	75142.6
60128+99.90	4.3	15.8	0	0	75158.5
60134+00.10	1.1	0	2.7	0	75158.5
60135+00.00	0	2	0	5.1	75155.4
60136+00.00	0	0	0	0	75155.4
60137+00.00	0	0	0	0	75155.4
60138+00.00	2.5	4.7	85.5	158.3	75001.8
60139+00.00	2.9	10.2	0	158.3	74853.6
60140+00.00	2.6	10.3	14.5	26.9	74837
60141+00.00	0	4.8	0	26.9	74814.9
60142+00.00	0	0	0	0	74814.9
60143+00.00	0	0	0	0	74814.9
60144+00.00	3.8	7.1	16.8	31.2	74790.8
60145+00.00	5.1	16.6	11.4	52.3	74755.1
60146+00.00	4	16.9	50.2	114.2	74657.8
60147+00.00	4.6	15.9	50.7	186.9	74486.9
60148+00.00	3.5	15	64	212.3	74289.6
60149+00.00	8.8	22.8	47.9	207.1	74105.2
60150+00.00	8.9	32.9	5.6	99	74039.1
60151+00.00	11.7	38.2	4.9	19.4	74057.9
60152+00.00	18.3	55.5	1.4	11.8	74101.7
60153+00.00	19.1	69.2	1.2	4.9	74166
60154+00.00	16.8	66.5	1.3	4.7	74227.8
60155+00.00	8.7	47.3	61.1	115.5	74159.5
60156+00.00	11.4	37.2	29.1	167	74029.7
60157+00.00	15.4	49.6	33.8	116.5	73962.8
60158+00.00	435.7	835.4	79.1	209	74589.2
60159+00.00	1334.6	3278.4	52.4	243.5	77624.1
60160+00.00	583.3	3551.7	44.5	179.4	80996.5

Baseline Station	Station Quantities				Mass Ordinate
	Cut		Fill		
	Area	Volume	Area	Volume	
60161+00.00	358.6	1744.2	56.2	186.5	82554.2
60162+00.00	17.5	696.4	63.2	221.3	83029.3
60163+00.00	12.3	55.2	84.1	272.8	82811.8
60164+00.00	16	52.5	67.2	280.1	82584.1
60165+00.00	19.8	66.3	85.2	282.3	82368.2
60166+00.00	3.8	43.7	82.9	311.4	82100.5
60167+00.00	3.8	14.1	73.6	289.9	81824.7
60168+00.00	3.3	13.2	67.3	261	81576.8
60169+00.00	3.8	13.2	59.8	235.3	81354.7
60170+00.00	3.8	14.1	52.5	207.9	81160.8
60171+00.00	2.7	12	158.6	391.1	80781.7
60172+00.00	4.6	13.4	75.1	432.9	80362.3
60173+00.00	4.2	16.2	105.4	334.4	80044.1
60174+00.00	64.9	128	79.8	343.1	79829
60175+00.00	43.5	200.9	53.6	247	79782.9
60176+00.00	7.2	93.9	48.4	188.9	79687.9
60177+00.00	72.6	147.8	173.7	411.4	79424.4
60178+00.00	71.5	266.9	166.6	630.2	79061.2
60179+00.00	156.3	421.8	148.5	583.4	78899.6
60180+00.00	174.6	612.8	50.1	367.7	79144.6
60181+00.00	251.4	788.9	6.6	105	79828.5
60182+00.00	409.3	1223.5	100.8	199	80853
60183+00.00	2690.9	5741	0	186.8	86407.2
60184+00.00	3702.2	11839.1	1.6	2.9	98243.4
60185+00.00	6078	18111.5	0	3	116351.9
60186+00.00	6830.7	23904.9	0	0	140256.8
60187+00.00	4806.9	21551.1	9.1	16.8	161791.1
60188+00.00	2765.3	14022.5	62	131.6	175682
60189+00.00	4544.7	13537	2	118.5	189100.5
60190+00.00	6219.1	19933	0.2	4	209029.5
60191+00.00	6697.4	23919.4	0.3	0.8	232948.1
60192+00.00	2182.4	16444	107.4	199.3	249192.9
60193+00.00	3746.2	10979	25.8	246.6	259925.2
60193+49.90	65.1	3521.9	88.4	105.5	263341.6
60197+60.10	20.8	0	0	0	263341.6
60198+00.00	10.8	23.4	0	0	263365
60199+00.00	11.3	40.9	0	0	263405.9
60200+00.00	10.7	40.8	1.8	3.4	263443.3
60201+00.00	7.4	33.6	161.1	301.8	263175.1
60202+00.00	19	48.9	3.8	305.4	262918.6
60203+00.00	14.3	61.7	11.8	28.9	262951.4
60204+00.00	15.1	54.4	21.6	61.8	262944.1
60205+00.00	21	66.9	18.7	74.6	262936.4

Baseline Station	Station Quantities				
	Cut		Fill		Mass Ordinate
	Area	Volume	Area	Volume	
60206+00.00	18.1	72.5	8.9	51.2	262957.7
60207+00.00	20.7	71.9	9	33.1	262996.5
60208+00.00	10.4	57.6	6.4	28.5	263025.6
60209+00.00	8.9	35.8	16.1	41.8	263019.6
60210+00.00	7	29.4	29.4	84.4	262964.6
60211+00.00	8.3	28.3	20	91.6	262901.3
60212+00.00	219.3	421.5	3.8	44.1	263278.7
60213+00.00	691.2	1686.2	0	7	264957.9
60214+00.00	728.4	2629	4.1	7.6	267579.3
60215+00.00	767.9	2770.9	0	7.6	270342.6
60216+00.00	168	1733.2	0	0	272075.8
60217+00.00	30.8	368.3	9.1	16.9	272427.1
60218+00.00	100.9	243.9	29	70.5	272600.5
60219+00.00	22.3	228.1	6.4	65.5	272763.1
60220+00.00	17.1	73	162.2	312.3	272523.8
60221+00.00	15	59.6	43.3	380.6	272202.8
60222+00.00	16	57.5	34.7	144.4	272115.9
60223+00.00	21	68.6	18.8	99.1	272085.4
60224+00.00	26.2	87.4	15.5	63.5	272109.2
60225+00.00	25.9	96.4	9.7	46.6	272159
60226+00.00	73.5	183.9	20.6	56.2	272286.7
60227+00.00	747.9	1521.1	14.4	65	273742.8
60228+00.00	342.6	2019.4	7.5	40.6	275721.6
60229+00.00	40.1	708.8	3.4	20.1	276410.2
60230+00.00	36.8	142.4	2	9.9	276542.8
60231+00.00	268.6	565.4	11.6	25	277083.2
60232+00.00	49.8	589.6	9.4	38.9	277633.9
60233+00.00	16.8	123.2	18	50.8	277706.3
60234+00.00	18.9	66.1	17.9	66.5	277705.9
60235+00.00	15.6	64	1011.6	1906.3	275863.5
60236+00.00	13.5	53.8	256.9	2349	273568.3
60237+00.00	29.2	79	20.2	513.2	273134.2
60238+00.00	25	100.4	14.9	65.1	273169.5
60239+00.00	51	140.8	21.2	67	273243.3
60240+00.00	75.2	233.8	6.8	52	273425
60241+00.00	84.3	295.3	8.6	28.7	273691.7
60242+00.00	75.3	295.4	9.4	33.4	273953.7
60243+00.00	30.7	196.2	9.2	34.5	274115.4
60244+00.00	20.5	94.7	10.5	36.6	274173.6
60245+00.00	24.1	82.6	15	47.3	274208.9
60246+00.00	19.4	80.5	14.9	55.5	274233.9
60247+00.00	17	67.2	23.4	71	274230.2
60248+00.00	18.5	65.7	19.7	79.7	274216.2

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60249+00.00	20.5	72.3	19.4	72.3	274216.1
60250+00.00	19.7	74.3	13.6	61.1	274229.4
60251+00.00	33.6	98.6	2.9	30.6	274297.3
60252+00.00	34.6	126.3	1.4	7.9	274415.7
60253+00.00	32.3	123.9	4.3	10.5	274529.1
60254+00.00	45.6	144.2	15.3	36.2	274637.1
60255+00.00	32.4	144.4	9.5	46	274735.6
60256+00.00	30.8	116.9	13	41.8	274810.8
60257+00.00	25.6	104.4	13.2	48.6	274866.5
60258+00.00	25.4	94.4	5.2	34.1	274926.7
60259+00.00	23.9	91.2	4.1	17.3	275000.6
60260+00.00	50.1	137	5.4	17.7	275120
60261+00.00	62.7	209	12.7	33.5	275295.5
60262+00.00	64.3	235.2	17.6	56	275474.7
60263+00.00	26.8	168.7	7.3	46.1	275597.3
60264+00.00	25.2	96.2	2.7	18.5	275675
60265+00.00	27.7	97.9	0.8	6.5	275766.4
60266+00.00	22.5	92.9	1.7	4.7	275854.6
60267+00.00	27.1	91.8	1.4	5.8	275940.7
60268+00.00	22.2	91.4	9.3	19.8	276012.2
60269+00.00	21.5	81	14.2	43.5	276049.8
60270+00.00	17.9	73.1	15.1	54.3	276068.6
60271+00.00	23.9	77.5	9.6	45.7	276100.4
60272+00.00	21.2	83.6	15.6	46.7	276137.3
60273+00.00	28	91.1	2.6	33.7	276194.7
60274+00.00	38.2	122.5	0	4.8	276312.4
60275+00.00	34.9	135.4	3	5.6	276442.2
60276+00.00	36.1	131.5	6	16.8	276556.9
60277+00.00	34.3	130.2	0.5	12.1	276675.1
60278+00.00	23	106	3.1	6.6	276774.4
60279+00.00	29.2	96.5	2.3	9.9	276861
60280+00.00	28.3	106.5	10.7	24	276943.5
60281+00.00	26.2	101	24.4	64.9	276979.7
60282+00.00	36	115.2	13.2	69.5	277025.4
60283+00.00	61.2	180.1	6.8	37	277168.5
60284+00.00	39.2	186.1	9.7	30.5	277324
60285+00.00	55.5	175.4	1.1	20	277479.4
60286+00.00	205	482.4	15.7	31.1	277930.7
60287+00.00	12.2	402.3	6.1	40.3	278292.7
60288+00.00	17.4	54.9	0	11.4	278336.2
60289+00.00	13.3	56.8	3.2	5.9	278387.1
60290+00.00	11.5	45.9	2.4	10.3	278422.7
60291+00.00	15	49.2	5.3	14.3	278457.6

Baseline Station	Station Quantities Cut Area	Cut Volume	Fill Area	Fill Volume	Mass Ordinate
60292+00.00	19.7	64.3	2.9	15.2	278506.7
60293+00.00	15.3	64.9	3.1	11.1	278560.5
60294+00.00	19	63.6	0.5	6.6	278617.6
60295+00.00	16.7	66.2	1.6	3.8	278680
60296+00.00	18	64.2	0.3	3.5	278740.7
60297+00.00	22.9	75.7	0	0.6	278815.8
60298+00.00	22.8	84.6	0	0	278900.5
60299+00.00	23.4	85.5	0	0	278986
60300+00.00	10.6	63	9	16.7	279032.4
60301+00.00	265.8	511.8	4.8	25.6	279518.5
60302+00.00	191.8	847.4	0.8	10.4	280355.5
60303+00.00	181.5	691.3	1.4	4	281042.8
60304+00.00	79.2	482.8	6	13.8	281511.8
60305+00.00	118	365.2	4.2	18.8	281858.1
60306+00.00	451.9	1055.4	2.4	12.1	282901.3
60307+00.00	15.4	865.4	2.2	8.4	283758.4
60308+00.00	17.7	61.4	1.5	6.7	283813
60309+00.00	18.7	67.4	1.9	6.3	283874.1
60310+00.00	15.3	63	2	7.3	283929.8
60311+00.00	16	58	1.7	6.7	283981.1
60312+00.00	19.2	65.2	17.2	35	284011.3
60313+00.00	21.1	74.5	0	31.9	284053.9
60314+00.00	13.1	63.2	0	0	284117.1
60315+00.00	9.3	41.4	0.2	0.3	284158.2
60316+00.00	10.1	35.9	1.4	2.9	284191.2
60317+00.00	9.3	36	0.4	3.4	284223.7
60318+00.00	12.7	40.7	0	0.8	284263.6
60319+00.00	11.4	44.6	1.8	3.3	284304.9
60320+00.00	33.9	83.9	4.2	11	284377.8
60321+00.00	13.8	88.3	0	7.7	284458.4
60322+00.00	10.6	45.2	0	0	284503.6
60323+00.00	13.3	44.3	0	0	284547.8
60324+00.00	11.6	46	0	0	284593.8
60325+00.00	11	41.9	7.2	13.3	284622.5
60325+67.03	22.7	41.9	6	16.4	284648

Grand Totals: Cut **318707.4** Fill **34059.3**