

Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: HB-0002

COUNTY: Haywood

DATE: 3/13/2024

COMPILED BY: J. HEFNER

SHEET 1 OF 1 SHEETS

STATION	STATION	EXCAVATION				EMBANKMENT				BORROW	WASTE			
		TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH		EMBANK. +15%	ROCK	SUITABLE	UNSUIT.
PHASE 1 (DET-WBL, Y2, & Y3)														
-L- 303+00.00 LT	-L- 316+00.00 LT	16,350				16,350		15,962	15,962	18,356	2,006			
-L- 316+00.00 LT	-L- 331+50.00 LT	641				641		17,614	17,614	20,256	19,615			
-Y2- 10+26.00	-Y2- 18+00.00	127				127		322	322	370	243			
-Y3- 23+00.00	-Y3- 26+85.00	44				44		1,677	1,677	1,929	1,885			
Stage 1 Culvert Surcharge Placement								5,339	5,339	6,140	6,140			
Stage 1 Culvert Surcharge Removal		6,140				6,140							6,140	6,140
SUBTOTAL		23,302				23,302		40,914	40,914	47,051	29,889		6,140	6,140
PHASE 2 (DET-EBL)														
-L- 307+00.00	-L- 316+00.00	43				43		1,887	1,887	2,170	2,127			
-L- 316+00.00	-L- 328+00.00	208				208		3,975	3,975	4,571	4,363			
Stage 2 Culvert Surcharge Placement								5,043	5,043	5,800	5,800			
Stage 2 Culvert Surcharge Removal		5,800				5,800							5,800	5,800
SUBTOTAL		6,051				6,051		10,905	10,905	12,541	12,290		5,800	5,800
PHASE 3 (-L- RT)														
-L- 303+00.00	-L- 316+50.00	482				482		10,542	10,542	12,123	11,641			
-L- 316+50.00	-L- 331+50.00	970				970		7,859	7,859	9,038	8,068			
-Y1- 7+00.00	-Y1- 12+78.00	90				90		285	285	328	238			
Stage 3 Culvert Surcharge Placement								7,043	7,043	8,100	8,100			
Stage 3 Culvert Surcharge Removal		8,100				8,100							8,100	8,100
SUBTOTAL		9,642				9,642		25,729	25,729	29,589	28,047		8,100	8,100
PHASE 4 (-L- MEDIAN)														
-L- 306+50.00	-L- 316+00.00	218				218							218	218
-L-316+00.00	-L- 328+00.00	1,481				1,481	33	33	38				1,443	1,443
SUBTOTAL		1,699				1,699	33	33	38				1,661	1,661
PHASE 5 (-L- LT)														
-L- 307+50.00	-L- 316+00.00	1,084				1,084							1,084	1,084
-L-316+00.00	-L- 325+50.00	1,033				1,033							1,033	1,033
SUBTOTAL		2,117				2,117							2,117	2,117
TOTAL		42,811				42,811		77,581	77,581	89,219	70,226		23,818	23,818
MATERIAL FOR SHOULDER CONSTRUCTION								4,773	4,773	5,489	5,489			
WASTE IN LIEU OF BORROW											-19,947		-19,947	-19,947
PROJECT TOTAL		42,811				42,811		82,354	82,354	94,708	55,768		3,871	3,871
EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											2,788			
GRAND TOTAL		42,811				42,811		82,354	82,354	94,708	58,556		3,871	3,871
SAY						45,000					62,000			

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

PAVEMENT STRUCTURE VOLUME = 16,441 CUBIC YARDS

EST. DDE = 1,550 CUBIC YARDS

EST. SHALLOW UNDERCUT = 100 CUBIC YARDS

EST. SHALLOW UNDERCUT BY STATIONS = 0 CUBIC YARDS

TOTAL SHALLOW UNDERCUT = 100 CUBIC YARDS

CLASS IV SUBGRADE STABILIZATION = 200 TONS

PER GEOTECH RECOMMENDATION, EST. 450 CUBIC YARDS OF UNDERCUT TO BE USED IN THE DISCRETION OF THE RESIDENT ENGINEER.

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_L_Phase-1.inp

Output File: EW_L_Phase-1.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_L_phase-1.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
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1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5C
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = I19.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = B25.0C
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

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1  99  99 lvname = Prop CMT Pvmt Course 3
1  100 100
1  101 101 Proposed Undercut
1  102 102 common exc only
1  103 103 soil type = Wall
1  104 104 fill mult factor = 1.00
1  105 105 type = line,line_string
1  106 106 lvname = Prop CMT Concrete Wall
1  107 107
1  108 108 excavation limits
1  109 109 lvname = Prop XS Exc Vertical Line 1
1  110 110 type = line
1  111 111
1  112 112 Write Earthwork Shapes
1  113 113 plot param
1  114 114 lvname = WEI XS Earthwork
1  115 115 Stratify Shape Color
1  116 116
1  117 117 vertical search distance = 200
1  118 118
1  119 119 /*calculate only between excavation limits*/
1  120 120
1  121 121 End Area Decimal Places = 2
1  122 122
1  123 123 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\01-L-Phase1-30300-31600.txt
1  124 124
1  125 125 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  126 126 column 1 number of decimal place = 0
1  127 127 column 1 total length = 10
1  128 128
1  129 129 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  130 130 column 2 number of decimal place = 0
1  131 131 column 2 total length = 10
1  132 132
1  133 133 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  134 134 column 3 number of decimal place = 0
1  135 135 column 3 total length = 10
1  136 136
1  137 137 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1  138 138 column 4 number of decimal place = 0
1  139 139 column 4 total length = 10
1  140 140
1  141 141 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1  142 142 column 5 number of decimal place = 2
1  143 143 column 5 total length = 10
1  144 144

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1 145 145 column 6 formula = ["S9.5C", Fill, End Area]
1 146 146 column 6 number of decimal place = 2
1 147 147 column 6 total length = 10
1 148 148
1 149 149 column 7 formula = ["I19.0C", Fill, End Area]
1 150 150 column 7 number of decimal place = 2
1 151 151 column 7 total length = 10
1 152 152
1 153 153 column 8 formula = ["B25.0C", Fill, End Area]
1 154 154 column 8 number of decimal place = 2
1 155 155 column 8 total length = 10
1 156 156
1 157 157 Process Earthwork for Baseline = L
1 158 158 job number = rdy
1 159 159
1 160 160 beg sta = 303+00.00
1 161 161 end sta = 316+00.00
1 162 162
1 163 163
1 164 164 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\01-L-Phase1-31600-33150.txt
1 165 165
1 166 166 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 167 167 column 1 number of decimal place = 0
1 168 168 column 1 total length = 10
1 169 169
1 170 170 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 171 171 column 2 number of decimal place = 0
1 172 172 column 2 total length = 10
1 173 173
1 174 174 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 175 175 column 3 number of decimal place = 0
1 176 176 column 3 total length = 10
1 177 177
1 178 178 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1 179 179 column 4 number of decimal place = 0
1 180 180 column 4 total length = 10
1 181 181
1 182 182 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 183 183 column 5 number of decimal place = 2
1 184 184 column 5 total length = 10
1 185 185
1 186 186 column 6 formula = ["S9.5C", Fill, End Area]
1 187 187 column 6 number of decimal place = 2
1 188 188 column 6 total length = 10
1 189 189
1 190 190 column 7 formula = ["I19.0C", Fill, End Area]

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1 191 191 column 7 number of decimal place = 2
1 192 192 column 7 total length = 10
1 193 193
1 194 194 column 8 formula = ["B25.0C", Fill, End Area]
1 195 195 column 8 number of decimal place = 2
1 196 196 column 8 total length = 10
1 197 197
1 198 198 Process Earthwork for Baseline = L
1 199 199 job number = rdy
1 200 200
1 201 201 beg sta = 316+00.00
1 202 202 end sta = 331+50.00
1 203 203
1 204 204
1 205 205
1 206 206
1 207 207
1 208 208
1 209 209
1 210 210
0 0 211 END_OF_FILE

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COMPUTING EARTHWORKS FOR BASELINE = L
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION

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Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

303+00.00	SUITABLE					
	Common Exc	22.15	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.40	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.67	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.81	0	0	1.00	0
	I19.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.85	0	0	1.00	0

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.33	0	0	1.00		0
303+50.00 SUITABLE						
Common Exc	557.32	537	537	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.56	3	3	1.00		534
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.97	22	22	1.00		512
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.93	5	5	1.00		507
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.01	7	7	1.00		500
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.84	25	25	1.00		475
304+00.00 SUITABLE						
Common Exc	643.48	1112	1112	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.61	1	1	1.00		1586
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.97	26	26	1.00		1560
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.87	5	5	1.00		1555
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.94	7	7	1.00	1548
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.61	25	25	1.00	1523
304+50.00 SUITABLE						
	Common Exc	752.50	1293	1293	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.31	1	1	1.00	2815
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.01	26	26	1.00	2789
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.01	5	5	1.00	2784
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.11	7	7	1.00	2777
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.19	26	26	1.00	2751
305+00.00 SUITABLE						
	Common Exc	843.13	1477	1477	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.15	0	0	1.00	4228
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.02	26	26	1.00	4202
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.01	6	6	1.00	4196
I19.0C						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.12	8	8	1.00	4188
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.21	26	26	1.00	4162
305+50.00 SUITABLE					
Common Exc	885.19	1600	1600	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.04	0	0	1.00	5762
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.07	26	26	1.00	5736
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.88	5	5	1.00	5731
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.95	7	7	1.00	5724
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.65	26	26	1.00	5698
306+00.00 SUITABLE					
Common Exc	821.22	1580	1580	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.38	0	0	1.00	7278
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.06	26	26	1.00	7252
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	2.82	5	5	1.00	7247
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.87	7	7	1.00	7240
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.39	25	25	1.00	7215
306+50.00 SUITABLE						
	Common Exc	775.12	1478	1478	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.15	0	0	1.00	8693
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.03	26	26	1.00	8667
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.74	5	5	1.00	8662
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.76	7	7	1.00	8655
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.04	24	24	1.00	8631
307+00.00 SUITABLE						
	Common Exc	715.64	1380	1380	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.06	0	0	1.00	10011
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.00	26	26	1.00	9985
S9.5C	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.78	5	5	1.00	9980
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.81	7	7	1.00	9973
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.22	24	24	1.00	9949
307+50.00 SUITABLE					
Common Exc	701.54	1312	1312	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	11261
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.93	26	26	1.00	11235
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.23	6	6	1.00	11229
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.42	8	8	1.00	11221
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.16	26	26	1.00	11195
308+00.00 SUITABLE					
Common Exc	660.33	1261	1261	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.08	0	0	1.00	12456
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.52	25	25	1.00	12431

S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.75	6	6	1.00		12425
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.11	9	9	1.00		12416
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	17.42	30	30	1.00		12386
308+50.00 SUITABLE						
Common Exc	445.45	1024	1024	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.07	0	0	1.00		13410
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.70	24	24	1.00		13386
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.42	8	8	1.00		13378
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.99	10	10	1.00		13368
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	20.28	35	35	1.00		13333
309+00.00 SUITABLE						
Common Exc	328.76	717	717	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.30	0	0	1.00		14050
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.96	21	21	1.00	14029
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.19	9	9	1.00	14020
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.02	12	12	1.00	14008
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	23.61	41	41	1.00	13967
309+50.00 SUITABLE						
	Common Exc	298.27	581	581	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.82	1	1	1.00	14547
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.30	18	18	1.00	14529
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.18	11	11	1.00	14518
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.35	14	14	1.00	14504
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	27.92	48	48	1.00	14456
310+00.00 SUITABLE						
	Common Exc	247.10	505	505	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.26	2	2	1.00	14959
SHOULDERBORROW						

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.81	15	15	1.00	14944
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.37	13	13	1.00	14931
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.92	17	17	1.00	14914
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	33.03	56	56	1.00	14858
310+50.00 SUITABLE						
	Common Exc	130.61	350	350	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.62	12	12	1.00	15196
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.59	9	9	1.00	15187
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.64	16	16	1.00	15171
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.55	19	19	1.00	15152
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.08	40	40	1.00	15112
311+00.00 SUITABLE						
	Common Exc	11.52	132	132	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	

Fill	25.29	34	34	1.00	15210
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.99	4	4	1.00	15206
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	15189
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.33	21	21	1.00	15168
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.33	24	24	1.00	15144
311+50.00 SUITABLE					
Common Exc	0.00	11	11	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	216.46	224	224	1.00	14931
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	2	2	1.00	14929
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	14912
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.33	23	23	1.00	14889
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.51	31	31	1.00	14858
312+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	587.95	745	745	1.00	14113
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	14096
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.33	23	23	1.00	14073
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.72	32	32	1.00	14041
312+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	848.66	1330	1330	1.00	12711
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	12694
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.33	23	23	1.00	12671
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.72	29	29	1.00	12642
313+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1087.63	1793	1793	1.00	10849
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.09	17	17	1.00	10832

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.32	23	23	1.00		10809
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.71	29	29	1.00		10780
313+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	1251.91	2166	2166	1.00		8614
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.08	17	17	1.00		8597
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.30	23	23	1.00		8574
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.69	29	29	1.00		8545
314+00.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	1376.01	2433	2433	1.00		6112
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.07	17	17	1.00		6095
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.29	23	23	1.00		6072
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	15.67	29	29	1.00	6043
314+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	891.32	2099	2099	1.00	3944
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.07	17	17	1.00	3927
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	3904
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.67	29	29	1.00	3875
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.43	10	10	1.00	3865
315+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	884.37	1644	1644	1.00	2221
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	2204
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	2181
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	2152
WALL					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.19	21	21	1.00	2131
315+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1283.87	2008	2008	1.00	123
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	106
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	83
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	54
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.21	24	24	1.00	30
316+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	298.91	1466	1466	1.00	-1436
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	-1453
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	-1476
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	15.66	29	29	1.00	-1505
WALL	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.98	25	25	1.00	-1530
↑	G R A N D S U M M A R Y T O T A L S					
	Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	

SUITABLE

Common Exc	16350	16350	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	15962	15962	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	348	348	1.00

S9.5C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	297	297	1.00

I19.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	397	397	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	796	796	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	80	80	1.00

↑ S P L I T S U M M A R Y T O T A L S

Quant		XS Quant	XS Quant	Add/Sub Quant	Add/Sub
Mult	Material Name	Unadjusted Volume (cu. yd.)	Adjusted Volume (cu. yd.)	Unadjusted Volume (cu. yd.)	Adjusted Volume (cu. yd.)
Factor					

SUITABLE					
0	1.00	Common Exc	16350	16350	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	15962	15962	0
SHOULDERBORROW					
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	348	348	0
S9.5C					
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	297	297	0
I19.0C					
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	397	397	0
B25.0C					
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	796	796	0
WALL					
0	1.00	Common Exc	0	0	0

Mult	Factor	Material Name	CUMULATIVE		INCREMENTAL	
			Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)
0	1.00	Subgrade Exc	0	0	0	0
0	1.00	Subsoil Exc	0	0	0	0
0	1.00	Fill	80	80	0	0
0	1.00					
<p style="text-align: center;">B A L A N C E P O I N T S U M M A R Y</p> <hr/>						
<p>Station = 315+50.96</p>						
<p>SUITABLE</p>						
1.00		Common Exc	16350	16350	16350	16350
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	14524	14524	14524	14524
<p>UNSUITABLE</p>						
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
<p>UNSUITABLEMARGINAL</p>						
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
<p>DDE</p>						
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0

1.00		Fill	0	0	0	0
1.00	UNSUITABLEDDE					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	UNDERCUT					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	SHOULDERBORROW					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	348	348	348	348
1.00	SELECTMATERIAL					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	S9.5C					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	280	280	280	280
1.00	I19.0C					
		Common Exc	0	0	0	0

1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	374	374	374	374
1.00	B25.0C	Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	768	768	768	768
1.00	WALL	Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	55	55	55	55

1.00
 COMPUTING EARTHWORKS FOR BASELINE = L
 COMPUTING EARTHWORKS FOR JOB = RDY
 FORMING LIST OF XSCELLS
 BEGINNING EARTHWORKS COMPUTATION

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Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
316+00.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	298.91	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.06	0	0	1.00	0
	I19.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.28	0	0	1.00	0
	B25.0C					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	0	0	1.00	0
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.98	0	0	1.00	0
316+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1682.53	1835	1835	1.00	-1835
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	-1852
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	-1875
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	-1904
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.80	26	26	1.00	-1930
317+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1035.44	2517	2517	1.00	-4447
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.07	17	17	1.00	-4464
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	12.28	23	23	1.00	-4487
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.67	29	29	1.00	-4516
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.22	24	24	1.00	-4540
317+50.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	928.83	1819	1819	1.00	-6359
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.07	17	17	1.00	-6376
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.29	23	23	1.00	-6399
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.67	29	29	1.00	-6428
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.63	22	22	1.00	-6450
318+00.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	824.61	1624	1624	1.00	-8074
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.07	17	17	1.00	-8091
I19.0C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.29	23	23	1.00	-8114
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.68	29	29	1.00	-8143
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.12	21	21	1.00	-8164
318+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	719.48	1430	1430	1.00	-9594
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-9611
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.30	23	23	1.00	-9634
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.68	29	29	1.00	-9663
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.46	20	20	1.00	-9683
319+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	622.96	1243	1243	1.00	-10926
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-10943

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.30	23	23	1.00		-10966
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.69	29	29	1.00		-10995
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.98	19	19	1.00		-11014
319+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	533.54	1071	1071	1.00		-12085
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.08	17	17	1.00		-12102
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.31	23	23	1.00		-12125
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.70	29	29	1.00		-12154
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	8.77	17	17	1.00		-12171
320+00.00 SUITABLE						
Common Exc	0.68	1	1	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	510.02	966	966	1.00		-13136
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.09	17	17	1.00	-13153
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.29	23	23	1.00	-13176
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.11	29	29	1.00	-13205
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.77	15	15	1.00	-13220
320+50.00	SUITABLE					
	Common Exc	0.39	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	485.81	922	922	1.00	-14141
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.34	17	17	1.00	-14158
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.67	22	22	1.00	-14180
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.48	26	26	1.00	-14206
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.26	13	13	1.00	-14219
321+00.00	SUITABLE					
	Common Exc	0.67	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	431.06	849	849	1.00	-15067
S9.5C						

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.41	17	17	1.00	-15084
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.43	20	20	1.00	-15104
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.13	24	24	1.00	-15128
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.59	10	10	1.00	-15138
321+50.00	SUITABLE					
	Common Exc	0.54	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	338.16	712	712	1.00	-15849
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.13	17	17	1.00	-15866
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.52	18	18	1.00	-15884
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.74	21	21	1.00	-15905
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	4	4	1.00	-15909
322+00.00	SUITABLE					
	Common Exc	1.94	2	2	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	

	Fill	276.00	569	569	1.00	-16476
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.50	16	16	1.00	-16492
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.63	16	16	1.00	-16508
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.26	19	19	1.00	-16527
322+50.00	SUITABLE					
	Common Exc	19.54	20	20	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	223.86	463	463	1.00	-16970
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.74	3	3	1.00	-16973
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.34	15	15	1.00	-16988
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.88	16	16	1.00	-17004
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	32.85	39	39	1.00	-17043
323+00.00	SUITABLE					
	Common Exc	17.73	35	35	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	203.07	395	395	1.00	-17403
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	5	5	1.00	-17408
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.60	13	13	1.00	-17421
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.90	17	17	1.00	-17438
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.67	58	58	1.00	-17496
323+50.00 SUITABLE					
Common Exc	17.40	33	33	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	157.06	333	333	1.00	-17796
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	5	5	1.00	-17801
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.89	12	12	1.00	-17813
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.94	16	16	1.00	-17829
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	26.56	52	52	1.00	-17881
324+00.00 SUITABLE					
Common Exc	17.67	32	32	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	118.95	256	256	1.00	-18105

SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.75	5	5	1.00		-18110
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.17	10	10	1.00		-18120
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.99	14	14	1.00		-18134
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	23.46	46	46	1.00		-18180
324+50.00 SUITABLE						
Common Exc	17.24	32	32	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	76.40	181	181	1.00		-18329
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.76	5	5	1.00		-18334
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.58	9	9	1.00		-18343
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.20	12	12	1.00		-18355
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	20.90	41	41	1.00		-18396
325+00.00 SUITABLE						
Common Exc	15.78	31	31	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	63.05	129	129	1.00	-18494
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.74	5	5	1.00	-18499
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.13	8	8	1.00	-18507
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.60	11	11	1.00	-18518
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.95	37	37	1.00	-18555
325+50.00 SUITABLE					
Common Exc	15.62	29	29	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	43.83	99	99	1.00	-18625
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.17	6	6	1.00	-18631
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.60	7	7	1.00	-18638
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.89	10	10	1.00	-18648
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.64	33	33	1.00	-18681

326+00.00 SUITABLE

Common Exc	16.99	30	30	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	35.58	74	74	1.00	-18725
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.49	9	9	1.00	-18734
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.45	7	7	1.00	-18741
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.70	9	9	1.00	-18750
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.01	30	30	1.00	-18780
326+50.00 SUITABLE					
Common Exc	22.13	36	36	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.33	43	43	1.00	-18787
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.49	10	10	1.00	-18797
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.51	6	6	1.00	-18803
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.77	9	9	1.00	-18812
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.27	30	30	1.00	-18842

327+00.00 SUITABLE						
Common Exc	21.33	40	40	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.43	17	17	1.00	-18819	
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.50	10	10	1.00	-18829	
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.50	6	6	1.00	-18835	
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.76	9	9	1.00	-18844	
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	16.22	30	30	1.00	-18874	
327+50.00 SUITABLE						
Common Exc	24.69	43	43	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.94	10	10	1.00	-18841	
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.51	10	10	1.00	-18851	
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.55	7	7	1.00	-18858	
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.83	9	9	1.00	-18867	
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	16.46	30	30	1.00	-18897
328+00.00 SUITABLE					
Common Exc	19.49	41	41	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.36	4	4	1.00	-18860
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.51	10	10	1.00	-18870
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.49	7	7	1.00	-18877
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.74	9	9	1.00	-18886
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.18	30	30	1.00	-18916
328+50.00 SUITABLE					
Common Exc	20.33	37	37	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.71	6	6	1.00	-18885
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.51	10	10	1.00	-18895
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.43	6	6	1.00	-18901
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.67	9	9	1.00	-18910
B25.0C					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.94	30	30	1.00	-18940
329+00.00 SUITABLE					
Common Exc	17.74	35	35	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.47	9	9	1.00	-18914
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.51	10	10	1.00	-18924
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.33	6	6	1.00	-18930
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.54	9	9	1.00	-18939
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.51	29	29	1.00	-18968
329+50.00 SUITABLE					
Common Exc	17.73	33	33	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.32	9	9	1.00	-18944
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.50	10	10	1.00	-18954
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.36	6	6	1.00	-18960
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	4.57	8	8	1.00	-18968
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.62	29	29	1.00	-18997
330+00.00	SUITABLE					
	Common Exc	17.44	33	33	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.87	8	8	1.00	-18972
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.51	10	10	1.00	-18982
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.35	6	6	1.00	-18988
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.56	8	8	1.00	-18996
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.57	29	29	1.00	-19025
330+50.00	SUITABLE					
	Common Exc	17.41	32	32	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.82	7	7	1.00	-19000
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.51	10	10	1.00	-19010
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.35	6	6	1.00	-19016
I19.0C	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.57	8	8	1.00	-19024
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.59	29	29	1.00	-19053
331+00.00 SUITABLE					
Common Exc	16.81	32	32	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.49	8	8	1.00	-19029
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.50	10	10	1.00	-19039
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.37	6	6	1.00	-19045
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.59	8	8	1.00	-19053
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.69	29	29	1.00	-19082
331+50.00 SUITABLE					
Common Exc	16.92	31	31	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.79	6	6	1.00	-19057
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.53	10	10	1.00	-19067
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.78	6	6	1.00	-19073

I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.79	8	8	1.00	-19081
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.02	27	27	1.00	-19108

↑

G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

SUITABLE

Common Exc	641	641	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	17614	17614	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	153	153	1.00

S9.5C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	352	352	1.00

I19.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	459	459	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	980	980	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	191	191	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant		XS Quant	XS Quant	Add/Sub Quant	Add/Sub
	Material Name	Unadjusted	Adjusted	Unadjusted	Adjusted

Mult Factor		Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)

	SUITABLE				
0	1.00	Common Exc	641	641	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	17614	17614	0
	SHOULDERBORROW				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	153	153	0
	S9.5C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	352	352	0
	I19.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	459	459	0
	B25.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0

		Fill	980	980	0
0	1.00				
	WALL				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	191	191	0
0	1.00				

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_L_Phase-2.inp

Output File: EW_L_Phase-2.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_L_phase-2.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18
1 19 19 Existing Ground Line
1 20 20 soil type = Suitable
1 21 21 type = line, line_string
1 22 22 lvname = Exist XS Ground Line
1 23 23
1 24 24 existing suitable material
1 25 25 soil type = Suitable
1 26 26 fill mult factor = 1.00
1 27 27 type = line, line_string
1 28 28 lvname = WEI XS Soil-Suitable
1 29 29
1 30 30 existing suitable material
1 31 31 soil type = Unsuitable
1 32 32 fill mult factor = 1.00
1 33 33 type = line, line_string
1 34 34 lvname = WEI XS Soil-Unsuitable
1 35 35
1 36 36 existing suitable material
1 37 37 soil type = UnsuitableMarginal
1 38 38 fill mult factor = 1.00
1 39 39 type = line, line_string
1 40 40 lvname = WEI XS Soil-UnsuitableMarginal
1 41 41
1 42 42 existing suitable material
1 43 43 soil type = DDE
1 44 44 fill mult factor = 1.00
1 45 45 type = line, line_string
1 46 46 lvname = WEI XS Soil-DDE
1 47 47
1 48 48 existing suitable material
```

1 49 49 soil type = UnsuitableDDE
1 50 50 fill mult factor = 1.00
1 51 51 type = line, line_string
1 52 52 lvname = WEI XS Soil-UnsuitableDDE
1 53 53
1 54 54 existing unsuitable material
1 55 55 soil type = Undercut
1 56 56 fill mult factor = 1.00
1 57 57 type = line,line_string
1 58 58 lvname = WEI XS Soil-UnsuitableUndercut
1 59 59
1 60 60 Proposed Undercut
1 61 61 common exc only
1 62 62 soil type = ShoulderBorrow
1 63 63 fill mult factor = 1.00
1 64 64 type = line,line_string
1 65 65 lvname = Prop CMT Shoulder Borrow
1 66 66
1 67 67 Proposed Undercut
1 68 68 soil type = Suitable
1 69 69 fill mult factor = 1.00
1 70 70 type = line,line_string
1 71 71 lvname = WEI XS Fill-Suitable
1 72 72
1 73 73 Proposed Undercut
1 74 74 soil type = SelectMaterial
1 75 75 fill mult factor = 1.00
1 76 76 type = line,line_string
1 77 77 lvname = WEI XS Fill-SelectMaterial
1 78 78
1 79 79 Proposed Undercut
1 80 80 common exc only
1 81 81 soil type = S9.5C
1 82 82 fill mult factor = 1.00
1 83 83 type = line,line_string
1 84 84 lvname = Prop CMT Pvmt Course 1
1 85 85
1 86 86 Proposed Undercut
1 87 87 common exc only
1 88 88 soil type = I19.0C
1 89 89 fill mult factor = 1.00
1 90 90 type = line,line_string
1 91 91 lvname = Prop CMT Pvmt Course 2
1 92 92
1 93 93 Proposed Undercut
1 94 94 common exc only
1 95 95 soil type = B25.0C
1 96 96 fill mult factor = 1.00
1 97 97 type = line,line_string
1 98 98 lvname = Prop CMT Pvmt Course 3

```

1  99  99
1  100 100 excavation limits
1  101 101 lvname = Prop XS Exc Vertical Line 1
1  102 102 type = line
1  103 103
1  104 104 Write Earthwork Shapes
1  105 105 plot param
1  106 106 lvname = WEI XS Earthwork
1  107 107 Stratify Shape Color
1  108 108
1  109 109 vertical search distance = 200
1  110 110
1  111 111 /*calculate only between excavation limits*/
1  112 112
1  113 113 End Area Decimal Places = 2
1  114 114
1  115 115 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\02-L-Phase2-30700-31600.txt
1  116 116
1  117 117 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  118 118 column 1 number of decimal place = 0
1  119 119 column 1 total length = 10
1  120 120
1  121 121 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  122 122 column 2 number of decimal place = 0
1  123 123 column 2 total length = 10
1  124 124
1  125 125 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  126 126 column 3 number of decimal place = 0
1  127 127 column 3 total length = 10
1  128 128
1  129 129 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1  130 130 column 4 number of decimal place = 0
1  131 131 column 4 total length = 10
1  132 132
1  133 133 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1  134 134 column 5 number of decimal place = 2
1  135 135 column 5 total length = 10
1  136 136
1  137 137 column 6 formula = ["S9.5C", Fill, End Area]
1  138 138 column 6 number of decimal place = 2
1  139 139 column 6 total length = 10
1  140 140
1  141 141 column 7 formula = ["I19.0C", Fill, End Area]
1  142 142 column 7 number of decimal place = 2
1  143 143 column 7 total length = 10
1  144 144

```

```

1 145 145 column 8 formula = ["B25.0C", Fill, End Area]
1 146 146 column 8 number of decimal place = 2
1 147 147 column 8 total length = 10
1 148 148
1 149 149 Process Earthwork for Baseline = L
1 150 150 job number = rdy
1 151 151
1 152 152 beg sta = 307+00.00
1 153 153 end sta = 316+00.00
1 154 154
1 155 155 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\02-L-Phase2-31600-32800.txt
1 156 156
1 157 157 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 158 158 column 1 number of decimal place = 0
1 159 159 column 1 total length = 10
1 160 160
1 161 161 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 162 162 column 2 number of decimal place = 0
1 163 163 column 2 total length = 10
1 164 164
1 165 165 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 166 166 column 3 number of decimal place = 0
1 167 167 column 3 total length = 10
1 168 168
1 169 169 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1 170 170 column 4 number of decimal place = 0
1 171 171 column 4 total length = 10
1 172 172
1 173 173 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 174 174 column 5 number of decimal place = 2
1 175 175 column 5 total length = 10
1 176 176
1 177 177 column 6 formula = ["S9.5C", Fill, End Area]
1 178 178 column 6 number of decimal place = 2
1 179 179 column 6 total length = 10
1 180 180
1 181 181 column 7 formula = ["I19.0C", Fill, End Area]
1 182 182 column 7 number of decimal place = 2
1 183 183 column 7 total length = 10
1 184 184
1 185 185 column 8 formula = ["B25.0C", Fill, End Area]
1 186 186 column 8 number of decimal place = 2
1 187 187 column 8 total length = 10
1 188 188
1 189 189 Process Earthwork for Baseline = L
1 190 190 job number = rdy

```

1 191 191
 1 192 192 beg sta = 316+00.00
 1 193 193 end sta = 328+00.00
 1 194 194
 1 195 195
 1 196 196
 1 197 197
 1 198 198
 1 199 199
 1 200 200
 1 201 201
 0 0 202 END_OF_FILE

COMPUTING EARTHWORKS FOR BASELINE = L
 COMPUTING EARTHWORKS FOR JOB = RDY
 FORMING LIST OF XSCELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

307+00.00	SUITABLE					
	Common Exc	0.29	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.61	0	0	1.00	0
307+50.00	SUITABLE					
	Common Exc	0.23	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.58	1	1	1.00	-1
308+00.00	SUITABLE					
	Common Exc	0.25	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-1
	S9.5C					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.58	1	1	1.00	-2
308+50.00 SUITABLE					
Common Exc	2.65	3	3	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	1
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.27	2	2	1.00	-1
309+00.00 SUITABLE					
Common Exc	3.38	6	6	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	5
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.58	3	3	1.00	2
309+50.00 SUITABLE					
Common Exc	4.85	8	8	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	10
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.00	3	3	1.00	7
310+00.00 SUITABLE					
Common Exc	4.99	9	9	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	16
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.50	4	4	1.00	12
310+50.00 SUITABLE					
Common Exc	2.37	7	7	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	19
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.11	5	5	1.00	14
311+00.00 SUITABLE					
Common Exc	0.52	3	3	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	17
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.49	9	9	1.00	8
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.68	1	1	1.00	7
311+50.00 SUITABLE					
Common Exc	1.57	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	9
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.06	13	13	1.00	-4
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.85	5	5	1.00	-9
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.03	2	2	1.00	-11
312+00.00 SUITABLE					
Common Exc	2.12	3	3	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

Fill	0.00	0	0	1.00	-8
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.99	2	2	1.00	-10
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.53	16	16	1.00	-26
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.49	12	12	1.00	-38
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.85	14	14	1.00	-52
312+50.00 SUITABLE					
Common Exc	0.16	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.17	3	3	1.00	-53
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	2	2	1.00	-55
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.39	18	18	1.00	-73
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.48	19	19	1.00	-92
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	22.74	33	33	1.00	-125
313+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.06	14	14	1.00	-139
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.09	17	17	1.00	-156
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.32	23	23	1.00	-179
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	33.40	52	52	1.00	-231
313+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	41.32	49	49	1.00	-280
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-297
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.30	23	23	1.00	-320
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.05	58	58	1.00	-378
314+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	87.33	119	119	1.00	-497
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.07	17	17	1.00	-514

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.29	23	23	1.00		-537
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.67	41	41	1.00		-578
314+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	123.97	196	196	1.00		-774
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.07	17	17	1.00		-791
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.28	23	23	1.00		-814
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.67	29	29	1.00		-843
315+00.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	150.27	254	254	1.00		-1097
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.06	17	17	1.00		-1114
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.28	23	23	1.00		-1137
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	-1166
315+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	536.35	636	636	1.00	-1802
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	-1819
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	-1842
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	-1871
316+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	129.08	616	616	1.00	-2487
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.06	17	17	1.00	-2504
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.28	23	23	1.00	-2527
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.66	29	29	1.00	-2556

↑

G R A N D S U M M A R Y T O T A L S

Material Name Unadjusted Volumes Adjusted Volumes Mult Factor

(cu. yd.) (cu. yd.)

SUITABLE

	Common Exc	43	43	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	1887	1887	1.00
SHOULDERBORROW				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	4	4	1.00
S9.5C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	194	194	1.00
I19.0C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	198	198	1.00
B25.0C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	316	316	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted	XS Quant Adjusted	Add/Sub Quant Unadjusted	Add/Sub Adjusted
Mult		Volume	Volume	Volume	Volume
Factor		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

SUITABLE					
0	1.00	Common Exc	43	43	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	1887	1887	0
SHOULDERBORROW					
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0

0	1.00	Subsoil Exc	0	0	0
		Fill	4	4	0
0	1.00				
	S9.5C	Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	194	194	0
0	1.00				
	I19.0C	Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	198	198	0
0	1.00				
	B25.0C	Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	316	316	0
0	1.00				

↑	B A L A N C E		P O I N T		S U M M A R Y	
	Material Name		Cumulative		Incremental	
Mult			Unadjusted	Adjusted	Unadjusted	Adjusted
Factor			Volumes	Volumes	Volumes	Volumes
			(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

-----			-----	-----	-----	-----
Station = 308+66.67						
SUITABLE						
1.00		Common Exc	5	5	5	5
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0

	UNSUITABLE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNSUITABLEMARGINAL					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	DDE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNSUITABLEDDE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNDERCUT					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	SHOULDERBORROW					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0

1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	SELECTMATERIAL					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	S9.5C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	5	5	5	5
	I19.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	B25.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	Station = 311+19.44					
	SUITABLE					
1.00		Common Exc	37	37	32	32
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0

	UNSUITABLE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNSUITABLEMARGINAL					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	DDE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNSUITABLEDDE					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	UNDERCUT					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	SHOULDERBORROW					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0

1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	SELECTMATERIAL					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	S9.5C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	33	33	28	28
	I19.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	3	3	3	3
	B25.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	1	1	1	1

1.00 COMPUTING EARTHWORKS FOR BASELINE = L

COMPUTING EARTHWORKS FOR JOB = RDY

FORMING LIST OF XCELLS

BEGINNING EARTHWORKS COMPUTATION

↑

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
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316+00.00 SUITABLE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	129.08	0	0	1.00	0
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.06	0	0	1.00	0
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.28	0	0	1.00	0
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.66	0	0	1.00	0
316+50.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	979.73	1027	1027	1.00	-1027
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.06	17	17	1.00	-1044
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.28	23	23	1.00	-1067
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.66	29	29	1.00	-1096
317+00.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	191.06	1084	1084	1.00	-2180
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	

	Fill	9.07	17	17	1.00	-2197
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.28	23	23	1.00	-2220
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.67	29	29	1.00	-2249
317+50.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	168.95	333	333	1.00	-2582
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.07	17	17	1.00	-2599
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.29	23	23	1.00	-2622
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.67	29	29	1.00	-2651
318+00.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	147.97	293	293	1.00	-2944
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.07	17	17	1.00	-2961
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.29	23	23	1.00	-2984
B25.0C	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.68	29	29	1.00	-3013
318+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	120.06	248	248	1.00	-3261
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-3278
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.30	23	23	1.00	-3301
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.68	29	29	1.00	-3330
319+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	92.60	197	197	1.00	-3527
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-3544
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.30	23	23	1.00	-3567
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.69	29	29	1.00	-3596
319+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	71.14	152	152	1.00	-3748
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.09	17	17	1.00	-3765
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.31	23	23	1.00	-3788
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.70	29	29	1.00	-3817
320+00.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	17.88	82	82	1.00	-3899
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.09	17	17	1.00	-3916
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.32	23	23	1.00	-3939
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	50.44	61	61	1.00	-4000
320+50.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	18.98	34	34	1.00	-4034
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.10	17	17	1.00	-4051
I19.0C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.33	23	23	1.00	-4074
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	41.70	85	85	1.00	-4159
321+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.93	33	33	1.00	-4192
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.52	17	17	1.00	-4209
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.89	23	23	1.00	-4232
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	41.44	77	77	1.00	-4309
321+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	25.79	40	40	1.00	-4349
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.11	17	17	1.00	-4366
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.35	23	23	1.00	-4389
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	32.04	68	68	1.00	-4457

322+00.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	28.82	51	51	1.00		-4508
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.12	17	17	1.00		-4525
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.36	23	23	1.00		-4548
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	27.80	55	55	1.00		-4603
322+50.00 SUITABLE						
Common Exc	7.79	7	7	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	32.60	57	57	1.00		-4653
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.13	17	17	1.00		-4670
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.37	23	23	1.00		-4693
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	24.86	49	49	1.00		-4742
323+00.00 SUITABLE						
Common Exc	8.14	15	15	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	39.23	67	67	1.00		-4794
S9.5C						
Common Exc	0.00	0	0	1.00		

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	-4811
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.23	23	23	1.00	-4834
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	20.80	42	42	1.00	-4876
323+50.00 SUITABLE					
Common Exc	6.52	14	14	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	43.21	76	76	1.00	-4938
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.40	16	16	1.00	-4954
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.33	21	21	1.00	-4975
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.06	31	31	1.00	-5006
324+00.00 SUITABLE					
Common Exc	9.25	15	15	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.77	63	63	1.00	-5054
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.46	5	5	1.00	-5059
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.63	14	14	1.00	-5073

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	8.46	17	17	1.00		-5090
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	28.24	38	38	1.00		-5128
324+50.00 SUITABLE						
Common Exc	9.84	18	18	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	20.60	42	42	1.00		-5152
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.45	10	10	1.00		-5162
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.46	11	11	1.00		-5173
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.87	14	14	1.00		-5187
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	23.07	48	48	1.00		-5235
325+00.00 SUITABLE						
Common Exc	9.91	18	18	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	25.03	42	42	1.00		-5259
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.45	10	10	1.00		-5269
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.34	9	9	1.00	-5278
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.35	11	11	1.00	-5289
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	18.11	38	38	1.00	-5327
325+50.00 SUITABLE						
	Common Exc	11.99	20	20	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.26	35	35	1.00	-5342
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.44	10	10	1.00	-5352
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.43	7	7	1.00	-5359
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.19	9	9	1.00	-5368
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.34	30	30	1.00	-5398
326+00.00 SUITABLE						
	Common Exc	12.74	23	23	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.73	16	16	1.00	-5391
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.45	10	10	1.00	-5401
S9.5C						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.57	6	6	1.00	-5407
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.98	7	7	1.00	-5414
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.42	23	23	1.00	-5437
326+50.00 SUITABLE					
Common Exc	14.64	25	25	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.01	3	3	1.00	-5415
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.44	10	10	1.00	-5425
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.92	4	4	1.00	-5429
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.06	5	5	1.00	-5434
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.44	17	17	1.00	-5451
327+00.00 SUITABLE					
Common Exc	9.15	22	22	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-5429
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	5.26	10	10	1.00	-5439
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.50	3	3	1.00	-5442
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.54	3	3	1.00	-5445
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.73	12	12	1.00	-5457
327+50.00	SUITABLE					
	Common Exc	8.39	16	16	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-5441
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.53	9	9	1.00	-5450
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.24	3	3	1.00	-5453
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.20	3	3	1.00	-5456
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.62	10	10	1.00	-5466
328+00.00	SUITABLE					
	Common Exc	8.11	15	15	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-5451
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.55	8	8	1.00	-5459
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.15	2	2	1.00	-5461
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.10	2	2	1.00	-5463
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.32	8	8	1.00	-5471

↑

G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

SUITABLE				
Common Exc	208	208	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	0	0	1.00	
Fill	3975	3975	1.00	
SHOULDERBORROW				
Common Exc	0	0	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	0	0	1.00	
Fill	82	82	1.00	
S9.5C				
Common Exc	0	0	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	0	0	1.00	
Fill	313	313	1.00	
I19.0C				
Common Exc	0	0	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	0	0	1.00	
Fill	414	414	1.00	
B25.0C				
Common Exc	0	0	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	0	0	1.00	
Fill	895	895	1.00	

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant	XS Quant	Add/Sub Quant	Add/Sub
Mult		Unadjusted	Adjusted	Unadjusted	Adjusted
Factor		Volume	Volume	Volume	Volume
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

	SUITABLE				
0	1.00	Common Exc	208	208	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	3975	3975	0
	SHOULDERBORROW				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	82	82	0
	S9.5C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	313	313	0
	I19.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	414	414	0
	B25.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0

0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	895	895	0
0	1.00				

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_L_Phase-3.inp

Output File: EW_L_Phase-3.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_L_phase-3.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5C
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = I19.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = B25.0C
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

```

1  99  99 lvname = Prop CMT Pvmt Course 3
1 100 100
1 101 101 Proposed Undercut
1 102 102 common exc only
1 103 103 soil type = ABC
1 104 104 fill mult factor = 1.00
1 105 105 type = line,line_string
1 106 106 lvname = Prop CMT Pvmt Course 4
1 107 107
1 108 108 Proposed Undercut
1 109 109 common exc only
1 110 110 soil type = Wall
1 111 111 fill mult factor = 1.00
1 112 112 type = line,line_string
1 113 113 lvname = Prop CMT Concrete Wall
1 114 114
1 115 115 excavation limits
1 116 116 lvname = Prop XS Exc Vertical Line 1
1 117 117 type = line
1 118 118
1 119 119 Write Earthwork Shapes
1 120 120 plot param
1 121 121 lvname = WEI XS Earthwork
1 122 122 Stratify Shape Color
1 123 123
1 124 124 vertical search distance = 200
1 125 125
1 126 126 /*calculate only between excavation limits*/
1 127 127
1 128 128 End Area Decimal Places = 2
1 129 129
1 130 130 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\03-L-Phase3-30300-31650.txt
1 131 131
1 132 132 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 133 133 column 1 number of decimal place = 0
1 134 134 column 1 total length = 10
1 135 135
1 136 136 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 137 137 column 2 number of decimal place = 0
1 138 138 column 2 total length = 10
1 139 139
1 140 140 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 141 141 column 3 number of decimal place = 0
1 142 142 column 3 total length = 10
1 143 143
1 144 144 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]

```

```

1 145 145 column 4 number of decimal place = 0
1 146 146 column 4 total length = 10
1 147 147
1 148 148 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 149 149 column 5 number of decimal place = 2
1 150 150 column 5 total length = 10
1 151 151
1 152 152 column 6 formula = ["S9.5C", Fill, End Area]
1 153 153 column 6 number of decimal place = 2
1 154 154 column 6 total length = 10
1 155 155
1 156 156 column 7 formula = ["I19.0C", Fill, End Area]
1 157 157 column 7 number of decimal place = 2
1 158 158 column 7 total length = 10
1 159 159
1 160 160 column 8 formula = ["B25.0C", Fill, End Area]
1 161 161 column 8 number of decimal place = 2
1 162 162 column 8 total length = 10
1 163 163
1 164 164 column 9 formula = ["ABC", Fill, End Area]
1 165 165 column 9 number of decimal place = 2
1 166 166 column 9 total length = 10
1 167 167
1 168 168 Process Earthwork for Baseline = L
1 169 169 job number = rdy
1 170 170
1 171 171 beg sta = 303+00.00
1 172 172 end sta = 316+50.00
1 173 173
1 174 174 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\03-L-Phase3-31650-33150.txt
1 175 175
1 176 176 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 177 177 column 1 number of decimal place = 0
1 178 178 column 1 total length = 10
1 179 179
1 180 180 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 181 181 column 2 number of decimal place = 0
1 182 182 column 2 total length = 10
1 183 183
1 184 184 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 185 185 column 3 number of decimal place = 0
1 186 186 column 3 total length = 10
1 187 187
1 188 188 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1 189 189 column 4 number of decimal place = 0
1 190 190 column 4 total length = 10

```

```

1 191 191
1 192 192 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 193 193 column 5 number of decimal place = 2
1 194 194 column 5 total length = 10
1 195 195
1 196 196 column 6 formula = ["S9.5C", Fill, End Area]
1 197 197 column 6 number of decimal place = 2
1 198 198 column 6 total length = 10
1 199 199
1 200 200 column 7 formula = ["I19.0C", Fill, End Area]
1 201 201 column 7 number of decimal place = 2
1 202 202 column 7 total length = 10
1 203 203
1 204 204 column 8 formula = ["B25.0C", Fill, End Area]
1 205 205 column 8 number of decimal place = 2
1 206 206 column 8 total length = 10
1 207 207
1 208 208 column 9 formula = ["ABC", Fill, End Area]
1 209 209 column 9 number of decimal place = 2
1 210 210 column 9 total length = 10
1 211 211
1 212 212 Process Earthwork for Baseline = L
1 213 213 job number = rdy
1 214 214
1 215 215 beg sta = 316+50.00
1 216 216 end sta = 331+50.00
1 217 217
1 218 218
1 219 219
1 220 220
1 221 221
1 222 222
1 223 223
0 0 224 END_OF_FILE

```

COMPUTING EARTHWORKS FOR BASELINE = L

COMPUTING EARTHWORKS FOR JOB = RDY

FORMING LIST OF XSCHELLS

BEGINNING EARTHWORKS COMPUTATION

↑

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

303+00.00	SUITABLE					
	Common Exc	28.87	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.11	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	0	0	1.00	0
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.87	0	0	1.00	0
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.43	0	0	1.00	0
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.16	0	0	1.00	0
303+50.00 SUITABLE					
Common Exc	25.49	50	50	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.39	5	5	1.00	45
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.80	17	17	1.00	28
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.85	13	13	1.00	15
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.33	8	8	1.00	7
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.84	28	28	1.00	-21
304+00.00 SUITABLE					
Common Exc	22.52	44	44	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.03	9	9	1.00	14

SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.77	15	15	1.00		-1
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.84	13	13	1.00		-14
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.30	8	8	1.00		-22
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.73	27	27	1.00		-49
304+50.00 SUITABLE						
Common Exc	19.70	39	39	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.71	15	15	1.00		-25
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.93	14	14	1.00		-39
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.85	13	13	1.00		-52
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.33	8	8	1.00		-60
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.80	27	27	1.00		-87
305+00.00 SUITABLE						
Common Exc	19.64	36	36	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	11.18	19	19	1.00	-70
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	13	13	1.00	-83
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.87	13	13	1.00	-96
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.39	8	8	1.00	-104
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.98	28	28	1.00	-132
305+50.00 SUITABLE					
Common Exc	19.50	36	36	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.18	22	22	1.00	-118
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	12	12	1.00	-130
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.86	13	13	1.00	-143
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.36	8	8	1.00	-151
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.90	28	28	1.00	-179

306+00.00 SUITABLE

Common Exc	19.18	36	36	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.61	22	22	1.00	-165
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	12	12	1.00	-177
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.91	13	13	1.00	-190
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.46	8	8	1.00	-198
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.21	28	28	1.00	-226
306+50.00 SUITABLE					
Common Exc	16.64	33	33	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.64	23	23	1.00	-216
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	12	12	1.00	-228
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.69	14	14	1.00	-242
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.44	9	9	1.00	-251
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.39	31	31	1.00	-282

307+00.00 SUITABLE						
Common Exc	14.89	29	29	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.36	27	27	1.00		-280
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.36	13	13	1.00		-293
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.43	14	14	1.00		-307
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.11	10	10	1.00		-317
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	17.35	33	33	1.00		-350
307+50.00 SUITABLE						
Common Exc	14.67	27	27	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.96	28	28	1.00		-351
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.67	14	14	1.00		-365
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.39	14	14	1.00		-379
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.08	9	9	1.00		-388
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	17.22	32	32	1.00	-420
308+00.00 SUITABLE					
Common Exc	13.84	26	26	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.20	22	22	1.00	-416
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.46	14	14	1.00	-430
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.33	15	15	1.00	-445
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.94	9	9	1.00	-454
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.79	31	31	1.00	-485
308+50.00 SUITABLE					
Common Exc	12.14	24	24	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.21	20	20	1.00	-481
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.30	14	14	1.00	-495
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.17	19	19	1.00	-514
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.73	9	9	1.00	-523
B25.0C					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.12	30	30	1.00	-553
309+00.00 SUITABLE					
Common Exc	11.79	22	22	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.70	25	25	1.00	-556
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.89	13	13	1.00	-569
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.56	18	18	1.00	-587
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.03	15	15	1.00	-602
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.94	30	30	1.00	-632
309+50.00 SUITABLE					
Common Exc	10.82	21	21	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	20.58	33	33	1.00	-644
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.10	12	12	1.00	-656
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.56	16	16	1.00	-672
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	14.79	24	24	1.00	-696
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	17.50	31	31	1.00	-727
310+00.00	SUITABLE					
	Common Exc	6.64	16	16	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	37.32	54	54	1.00	-765
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.48	12	12	1.00	-777
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.56	16	16	1.00	-793
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.62	24	24	1.00	-817
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	29.34	43	43	1.00	-860
310+50.00	SUITABLE					
	Common Exc	0.02	6	6	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	43.98	75	75	1.00	-929
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.57	12	12	1.00	-941
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.56	16	16	1.00	-957
I19.0C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.62	22	22	1.00	-979
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	40.68	65	65	1.00	-1044
311+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	73.70	109	109	1.00	-1153
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	12	12	1.00	-1165
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.56	16	16	1.00	-1181
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.61	22	22	1.00	-1203
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	60.17	93	93	1.00	-1296
311+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	97.64	159	159	1.00	-1455
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.57	12	12	1.00	-1467
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.56	16	16	1.00	-1483

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.61	22	22	1.00		-1505
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	78.81	129	129	1.00		-1634
312+00.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	140.13	220	220	1.00		-1854
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.57	12	12	1.00		-1866
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.56	17	17	1.00		-1883
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.95	23	23	1.00		-1906
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	107.55	173	173	1.00		-2079
312+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	237.01	349	349	1.00		-2428
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.93	13	13	1.00		-2441
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	12.40	20	20	1.00	-2461
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.98	29	29	1.00	-2490
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	46.59	143	143	1.00	-2633
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	30.68	28	28	1.00	-2661
313+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	283.23	482	482	1.00	-3143
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.93	15	15	1.00	-3158
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.59	24	24	1.00	-3182
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	19.56	35	35	1.00	-3217
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	63.06	102	102	1.00	-3319
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	30.68	57	57	1.00	-3376

313+50.00 SUITABLE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	393.32	626	626	1.00	-4002
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.93	15	15	1.00	-4017
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.59	26	26	1.00	-4043
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	20.91	37	37	1.00	-4080
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	82.00	134	134	1.00	-4214
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	30.69	57	57	1.00	-4271
314+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	492.76	820	820	1.00	-5091
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.93	15	15	1.00	-5106
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.47	28	28	1.00	-5134
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	22.09	40	40	1.00	-5174

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	50.88	123	123	1.00		-5297
ABC						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	46.80	72	72	1.00		-5369
314+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	541.32	957	957	1.00		-6326
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	8.00	15	15	1.00		-6341
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	16.20	29	29	1.00		-6370
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	23.08	42	42	1.00		-6412
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	52.98	96	96	1.00		-6508
ABC						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	48.31	88	88	1.00		-6596
315+00.00 SUITABLE						
Common Exc	0.38	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	610.84	1067	1067	1.00		-7663
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.01	15	15	1.00	-7678
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	16.78	31	31	1.00	-7709
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	23.88	43	43	1.00	-7752
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	54.41	99	99	1.00	-7851
ABC						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	49.46	91	91	1.00	-7942
315+50.00 SUITABLE						
	Common Exc	18.23	17	17	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	927.06	1424	1424	1.00	-9349
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.01	15	15	1.00	-9364
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	17.22	31	31	1.00	-9395
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.44	45	45	1.00	-9440
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	55.39	102	102	1.00	-9542
ABC						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	50.32	92	92	1.00	-9634
316+00.00 SUITABLE					
Common Exc	1.12	18	18	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1386.66	2142	2142	1.00	-11758
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.15	19	19	1.00	-11777
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.54	32	32	1.00	-11809
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.76	46	46	1.00	-11855
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	56.07	103	103	1.00	-11958
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	50.93	94	94	1.00	-12052
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.47	10	10	1.00	-12062
316+50.00 SUITABLE					
Common Exc	1.18	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	544.70	1788	1788	1.00	-13848
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	43.14	51	51	1.00	-13899

S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	17.71	33	33	1.00	-13932
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.96	46	46	1.00	-13978
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	56.52	104	104	1.00	-14082
ABC	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	51.33	95	95	1.00	-14177
WALL	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.51	13	13	1.00	-14190

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G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

SUITABLE	Common Exc	482	482	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	10542	10542	1.00
SHOULDERBORROW	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	408	408	1.00
S9.5C	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	523	523	1.00
I19.0C	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	609	609	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1893	1893	1.00

ABC

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	674	674	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	23	23	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)
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SUITABLE

0	1.00	Common Exc	482	482	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	10542	10542	0

SHOULDERBORROW

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	408	408	0

S9.5C

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0

0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	523	523	0
	I19.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	609	609	0
	B25.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	1893	1893	0
	ABC				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	674	674	0
	WALL				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	23	23	0

COMPUTING EARTHWORKS FOR BASELINE = L

COMPUTING EARTHWORKS FOR JOB = RDY

FORMING LIST OF XSCHELLS

BEGINNING EARTHWORKS COMPUTATION

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Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
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316+50.00 SUITABLE

Common Exc	1.18	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	544.70	0	0	1.00	0
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	43.14	0	0	1.00	0
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.71	0	0	1.00	0
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.96	0	0	1.00	0
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	56.52	0	0	1.00	0
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	51.33	0	0	1.00	0
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.51	0	0	1.00	0
317+00.00 SUITABLE					
Common Exc	1.00	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	778.53	1225	1225	1.00	-1223
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.86	48	48	1.00	-1271
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.74	33	33	1.00	-1304

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	25.06	46	46	1.00		-1350
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	56.74	105	105	1.00		-1455
ABC						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	51.53	95	95	1.00		-1550
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.21	15	15	1.00		-1565
317+50.00 SUITABLE						
Common Exc	0.77	2	2	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	511.03	1194	1194	1.00		-2757
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	8.01	16	16	1.00		-2773
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	17.65	33	33	1.00		-2806
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	24.99	46	46	1.00		-2852
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	56.65	105	105	1.00		-2957
ABC						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		

	Fill	51.45	95	95	1.00	-3052
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	11	11	1.00	-3063
318+00.00 SUITABLE						
	Common Exc	0.60	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	470.91	909	909	1.00	-3971
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.01	15	15	1.00	-3986
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	17.46	33	33	1.00	-4019
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.75	46	46	1.00	-4065
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	56.21	105	105	1.00	-4170
ABC						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	51.05	95	95	1.00	-4265
318+50.00 SUITABLE						
	Common Exc	0.37	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	464.28	866	866	1.00	-5130
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.01	15	15	1.00	-5145
S9.5C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.14	32	32	1.00	-5177
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.32	45	45	1.00	-5222
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	55.46	103	103	1.00	-5325
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	50.39	94	94	1.00	-5419
319+00.00 SUITABLE					
Common Exc	7.45	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	158.36	577	577	1.00	-5989
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.16	14	14	1.00	-6003
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.71	31	31	1.00	-6034
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	23.74	45	45	1.00	-6079
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	54.32	102	102	1.00	-6181
ABC					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	49.41	92	92	1.00	-6273

319+50.00 SUITABLE						
Common Exc	16.19	22	22	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	150.46	286	286	1.00		-6537
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	19.10	24	24	1.00		-6561
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.94	26	26	1.00		-6587
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.79	36	36	1.00		-6623
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	34.12	82	82	1.00		-6705
ABC						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	31.97	75	75	1.00		-6780
320+00.00 SUITABLE						
Common Exc	0.00	15	15	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	277.44	396	396	1.00		-7161
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.95	32	32	1.00		-7193
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.94	20	20	1.00		-7213
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		

	Fill	14.79	27	27	1.00	-7240
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	104.65	128	128	1.00	-7368
ABC	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	30	30	1.00	-7398
320+50.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	257.75	496	496	1.00	-7894
SHOULDERBORROW	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.96	30	30	1.00	-7924
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.94	20	20	1.00	-7944
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.79	27	27	1.00	-7971
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	89.81	180	180	1.00	-8151
321+00.00	SUITABLE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	203.38	427	427	1.00	-8578
SHOULDERBORROW	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.96	30	30	1.00	-8608
S9.5C	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.94	20	20	1.00	-8628
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.79	27	27	1.00	-8655
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	74.36	152	152	1.00	-8807
321+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	158.31	335	335	1.00	-9142
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.96	30	30	1.00	-9172
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.94	20	20	1.00	-9192
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.79	27	27	1.00	-9219
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	60.71	125	125	1.00	-9344
322+00.00 SUITABLE					
Common Exc	2.39	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	115.13	253	253	1.00	-9595
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.46	30	30	1.00	-9625

S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.94	20	20	1.00		-9645
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.79	27	27	1.00		-9672
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	45.78	99	99	1.00		-9771
322+50.00 SUITABLE						
Common Exc	6.56	8	8	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	98.54	198	198	1.00		-9961
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.63	21	21	1.00		-9982
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.57	19	19	1.00		-10001
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.95	26	26	1.00		-10027
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	29.19	69	69	1.00		-10096
323+00.00 SUITABLE						
Common Exc	11.14	16	16	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	73.40	159	159	1.00		-10239
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.63	12	12	1.00	-10251
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.57	18	18	1.00	-10269
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	16.56	27	27	1.00	-10296
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	16.28	42	42	1.00	-10338
323+50.00 SUITABLE						
	Common Exc	18.25	27	27	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	56.64	120	120	1.00	-10431
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.63	12	12	1.00	-10443
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.94	20	20	1.00	-10463
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.44	19	19	1.00	-10482
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.24	29	29	1.00	-10511
324+00.00 SUITABLE						
	Common Exc	24.09	39	39	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	43.38	93	93	1.00	-10565
SHOULDERBORROW						

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.63	12	12	1.00	-10577
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.68	17	17	1.00	-10594
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.49	8	8	1.00	-10602
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.41	28	28	1.00	-10630
324+50.00	SUITABLE					
	Common Exc	29.12	49	49	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	34.06	72	72	1.00	-10653
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.64	12	12	1.00	-10665
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.90	12	12	1.00	-10677
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.47	8	8	1.00	-10685
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.33	28	28	1.00	-10713
325+00.00	SUITABLE					
	Common Exc	30.11	55	55	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	

Fill	22.51	52	52	1.00	-10710
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.64	12	12	1.00	-10722
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.90	11	11	1.00	-10733
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.47	8	8	1.00	-10741
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.34	28	28	1.00	-10769
325+50.00 SUITABLE					
Common Exc	31.74	57	57	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	31.78	50	50	1.00	-10762
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.65	12	12	1.00	-10774
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.89	11	11	1.00	-10785
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.44	8	8	1.00	-10793
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.25	28	28	1.00	-10821
326+00.00 SUITABLE					
Common Exc	30.21	57	57	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.52	46	46	1.00	-10810
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.64	12	12	1.00	-10822
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.89	11	11	1.00	-10833
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.43	8	8	1.00	-10841
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.19	28	28	1.00	-10869
326+50.00 SUITABLE					
Common Exc	29.08	55	55	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.52	31	31	1.00	-10845
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.64	12	12	1.00	-10857
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.90	11	11	1.00	-10868
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.46	8	8	1.00	-10876
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.29	28	28	1.00	-10904

327+00.00 SUITABLE						
Common Exc	25.20	50	50	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.64	24	24	1.00		-10878
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.66	12	12	1.00		-10890
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.88	11	11	1.00		-10901
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.40	8	8	1.00		-10909
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.11	28	28	1.00		-10937
327+50.00 SUITABLE						
Common Exc	26.39	48	48	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.79	20	20	1.00		-10909
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.63	12	12	1.00		-10921
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.88	11	11	1.00		-10932
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.39	8	8	1.00		-10940
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		

	Fill	15.09	28	28	1.00	-10968
328+00.00 SUITABLE						
	Common Exc	31.46	54	54	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.10	16	16	1.00	-10930
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.45	20	20	1.00	-10950
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.87	11	11	1.00	-10961
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.39	8	8	1.00	-10969
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.08	28	28	1.00	-10997
328+50.00 SUITABLE						
	Common Exc	58.48	83	83	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.23	6	6	1.00	-10920
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	13.92	27	27	1.00	-10947
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.61	11	11	1.00	-10958
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.70	7	7	1.00	-10965
B25.0C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.82	26	26	1.00	-10991
329+00.00 SUITABLE					
Common Exc	25.07	77	77	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.70	2	2	1.00	-10916
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.97	21	21	1.00	-10937
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.27	11	11	1.00	-10948
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.70	7	7	1.00	-10955
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.83	24	24	1.00	-10979
329+50.00 SUITABLE					
Common Exc	26.03	47	47	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.59	3	3	1.00	-10935
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.01	17	17	1.00	-10952
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.31	12	12	1.00	-10964
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.72	7	7	1.00	-10971

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.89	24	24	1.00		-10995
330+00.00 SUITABLE						
Common Exc	27.57	50	50	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.10	2	2	1.00		-10947
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.25	19	19	1.00		-10966
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.33	12	12	1.00		-10978
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.75	7	7	1.00		-10985
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.00	24	24	1.00		-11009
330+50.00 SUITABLE						
Common Exc	26.21	50	50	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.22	0	0	1.00		-10959
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.21	21	21	1.00		-10980
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.30	12	12	1.00		-10992
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.68	7	7	1.00	-10999
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.75	24	24	1.00	-11023
331+00.00 SUITABLE						
	Common Exc	26.07	48	48	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.33	1	1	1.00	-10976
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.33	21	21	1.00	-10997
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.25	12	12	1.00	-11009
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.62	7	7	1.00	-11016
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.56	23	23	1.00	-11039
331+50.00 SUITABLE						
	Common Exc	25.93	48	48	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.05	0	0	1.00	-10991
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.47	20	20	1.00	-11011
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.24	12	12	1.00	-11023
I19.0C						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.62	7	7	1.00	-11030
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.56	23	23	1.00	-11053

↑

G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

SUITABLE

Common Exc	970	970	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	7859	7859	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	591	591	1.00

S9.5C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	533	533	1.00

I19.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	592	592	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1846	1846	1.00

ABC

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	576	576	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	26	26	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)
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	SUITABLE				
0	1.00	Common Exc	970	970	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	7859	7859	0
	SHOULDERBORROW				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	591	591	0
	S9.5C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	533	533	0
	I19.0C				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	592	592	0
	B25.0C				
0	1.00	Common Exc	0	0	0

		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	1846	1846	0
0	1.00				
	ABC				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	576	576	0
0	1.00				
	WALL				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	26	26	0
0	1.00				

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_L_Phase-4.inp

Output File: EW_L_Phase-4.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_L_phase-4.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5C
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = I19.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = B25.0C
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

```

1  99  99 lvname = Prop CMT Pvmt Course 3
1  100 100
1  101 101 Proposed Undercut
1  102 102 common exc only
1  103 103 soil type = ABC
1  104 104 fill mult factor = 1.00
1  105 105 type = line,line_string
1  106 106 lvname = Prop CMT Pvmt Course 4
1  107 107
1  108 108 Proposed Undercut
1  109 109 common exc only
1  110 110 soil type = Wall
1  111 111 fill mult factor = 1.00
1  112 112 type = line,line_string
1  113 113 lvname = Prop CMT Concrete Wall
1  114 114
1  115 115 excavation limits
1  116 116 lvname = Prop XS Exc Vertical Line 1
1  117 117 type = line
1  118 118
1  119 119 Write Earthwork Shapes
1  120 120 plot param
1  121 121 lvname = WEI XS Earthwork
1  122 122 Stratify Shape Color
1  123 123
1  124 124 vertical search distance = 200
1  125 125
1  126 126 /*calculate only between excavation limits*/
1  127 127
1  128 128 End Area Decimal Places = 2
1  129 129
1  130 130 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\01-L-Phase4-30300-31600.txt
1  131 131
1  132 132 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  133 133 column 1 number of decimal place = 0
1  134 134 column 1 total length = 10
1  135 135
1  136 136 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  137 137 column 2 number of decimal place = 0
1  138 138 column 2 total length = 10
1  139 139
1  140 140 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  141 141 column 3 number of decimal place = 0
1  142 142 column 3 total length = 10
1  143 143
1  144 144 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]

```



```

1 145 145 column 4 number of decimal place = 0
1 146 146 column 4 total length = 10
1 147 147
1 148 148 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 149 149 column 5 number of decimal place = 2
1 150 150 column 5 total length = 10
1 151 151
1 152 152 column 6 formula = ["S9.5C", Fill, End Area]
1 153 153 column 6 number of decimal place = 2
1 154 154 column 6 total length = 10
1 155 155
1 156 156 column 7 formula = ["I19.0C", Fill, End Area]
1 157 157 column 7 number of decimal place = 2
1 158 158 column 7 total length = 10
1 159 159
1 160 160 column 8 formula = ["B25.0C", Fill, End Area]
1 161 161 column 8 number of decimal place = 2
1 162 162 column 8 total length = 10
1 163 163
1 164 164 column 9 formula = ["ABC", Fill, End Area]
1 165 165 column 9 number of decimal place = 2
1 166 166 column 9 total length = 10
1 167 167
1 168 168 Process Earthwork for Baseline = L
1 169 169 job number = rdy
1 170 170
1 171 171 beg sta = 303+00.00
1 172 172 end sta = 316+00.00
1 173 173
1 174 174 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\04-L-Phase4-31600-33150.txt
1 175 175
1 176 176 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 177 177 column 1 number of decimal place = 0
1 178 178 column 1 total length = 10
1 179 179
1 180 180 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 181 181 column 2 number of decimal place = 0
1 182 182 column 2 total length = 10
1 183 183
1 184 184 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 185 185 column 3 number of decimal place = 0
1 186 186 column 3 total length = 10
1 187 187
1 188 188 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1 189 189 column 4 number of decimal place = 0
1 190 190 column 4 total length = 10

```

```

1 191 191
1 192 192 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 193 193 column 5 number of decimal place = 2
1 194 194 column 5 total length = 10
1 195 195
1 196 196 column 6 formula = ["S9.5C", Fill, End Area]
1 197 197 column 6 number of decimal place = 2
1 198 198 column 6 total length = 10
1 199 199
1 200 200 column 7 formula = ["I19.0C", Fill, End Area]
1 201 201 column 7 number of decimal place = 2
1 202 202 column 7 total length = 10
1 203 203
1 204 204 column 8 formula = ["B25.0C", Fill, End Area]
1 205 205 column 8 number of decimal place = 2
1 206 206 column 8 total length = 10
1 207 207
1 208 208 column 9 formula = ["ABC", Fill, End Area]
1 209 209 column 9 number of decimal place = 2
1 210 210 column 9 total length = 10
1 211 211
1 212 212 Process Earthwork for Baseline = L
1 213 213 job number = rdy
1 214 214
1 215 215 beg sta = 316+00.00
1 216 216 end sta = 331+50.00
1 217 217
1 218 218
1 219 219
1 220 220
1 221 221
1 222 222
1 223 223
0 0 224 END_OF_FILE

```

COMPUTING EARTHWORKS FOR BASELINE = L

COMPUTING EARTHWORKS FOR JOB = RDY

FORMING LIST OF XSCELLS

BEGINNING EARTHWORKS COMPUTATION

↑

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
306+50.00	SUITABLE					
	Common Exc	3.81	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.17	0	0	1.00	0
307+00.00 SUITABLE					
Common Exc	3.81	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	7
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.70	9	9	1.00	-2
307+50.00 SUITABLE					
Common Exc	3.81	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	5
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.03	10	10	1.00	-5
308+00.00 SUITABLE					
Common Exc	3.87	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	2
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.47	12	12	1.00	-10
308+50.00 SUITABLE					
Common Exc	3.39	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-3
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.18	14	14	1.00	-17
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	

Subsoil Exc	0.00	0	0	1.00	
Fill	5.36	5	5	1.00	-22
309+00.00 SUITABLE					
Common Exc	4.67	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.01	0	0	1.00	-15
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.12	17	17	1.00	-32
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.65	11	11	1.00	-43
309+50.00 SUITABLE					
Common Exc	7.37	11	11	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-32
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.06	20	20	1.00	-52
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.53	11	11	1.00	-63
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.97	6	6	1.00	-69
310+00.00 SUITABLE					
Common Exc	9.05	15	15	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-54
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.14	21	21	1.00	-75

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.00	15	15	1.00		-90
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.72	16	16	1.00		-106
310+50.00 SUITABLE						
Common Exc	10.08	18	18	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-88
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.21	20	20	1.00		-108
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.33	24	24	1.00		-132
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	14.70	24	24	1.00		-156
311+00.00 SUITABLE						
Common Exc	9.40	18	18	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-138
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.37	19	19	1.00		-157
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	15.03	28	28	1.00		-185
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	24.09	36	36	1.00	-221
311+50.00 SUITABLE					
Common Exc	0.01	9	9	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-212
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.46	20	20	1.00	-232
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.32	31	31	1.00	-263
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	27.23	48	48	1.00	-311
312+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-311
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.58	20	20	1.00	-331
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.20	33	33	1.00	-364
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	23.52	47	47	1.00	-411
312+50.00 S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.91	16	16	1.00	-427

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.21	24	24	1.00		-451
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	16.40	37	37	1.00		-488
313+00.00 S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.99	12	12	1.00		-500
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.98	16	16	1.00		-516
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	16.27	30	30	1.00		-546
313+50.00 S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.64	10	10	1.00		-556
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.19	13	13	1.00		-569
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	12.73	27	27	1.00		-596
314+00.00 SUITABLE						
Common Exc	9.91	9	9	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-587
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.82	6	6	1.00	-593
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.52	11	11	1.00	-604
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.06	13	13	1.00	-617
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.26	18	18	1.00	-635
314+50.00 SUITABLE					
Common Exc	16.34	24	24	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-611
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.22	10	10	1.00	-621
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.93	13	13	1.00	-634
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.99	13	13	1.00	-647
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.36	7	7	1.00	-654
315+00.00 SUITABLE					
Common Exc	12.58	27	27	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-627

SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.50	11	11	1.00		-638
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.10	13	13	1.00		-651
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.53	8	8	1.00		-659
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	1	1	1.00		-660
315+50.00 SUITABLE						
Common Exc	12.84	24	24	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-636
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.57	14	14	1.00		-650
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.96	12	12	1.00		-662
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	2	2	1.00		-664
316+00.00 SUITABLE						
Common Exc	17.49	28	28	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-636
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	4.00	11	11	1.00	-647
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.27	9	9	1.00	-656

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G R A N D S U M M A R Y T O T A L S

Material Name Unadjusted Adjusted Mult
 Volumes Volumes Factor
 (cu. yd.) (cu. yd.)

SUITABLE					
Common Exc		218	218	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		0	0	1.00	
SHOULDERBORROW					
Common Exc		0	0	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		52	52	1.00	
S9.5C					
Common Exc		0	0	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		278	278	1.00	
I19.0C					
Common Exc		0	0	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		247	247	1.00	
B25.0C					
Common Exc		0	0	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		297	297	1.00	

↑

S P L I T S U M M A R Y T O T A L S

		XS Quant	XS Quant	Add/Sub Quant	Add/Sub
Quant	Material Name	Unadjusted	Adjusted	Unadjusted	Adjusted
Mult		Volume	Volume	Volume	Volume
Factor		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

 SUITABLE

0	1.00	Common Exc	218	218	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	0	0	0
		SHOULDERBORROW			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	52	52	0
		S9.5C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	278	278	0
		I19.0C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	247	247	0
		B25.0C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	297	297	0

COMPUTING EARTHWORKS FOR BASELINE = L
 COMPUTING EARTHWORKS FOR JOB = RDY
 FORMING LIST OF XCELLS
 BEGINNING EARTHWORKS COMPUTATION

↑
 Material Name End Areas Unadjusted Adjusted Mult Mass

Station		Volumes (sq. ft.)	Volumes (cu. yd.)	Volumes (cu. yd.)	Factor	Ordinate
316+00.00	SUITABLE					
	Common Exc	17.49	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.00	0	0	1.00	0
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.27	0	0	1.00	0
316+50.00	SUITABLE					
	Common Exc	18.19	33	33	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	33
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.49	7	7	1.00	26
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.15	6	6	1.00	20
317+00.00	SUITABLE					
	Common Exc	15.61	31	31	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	51
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.66	7	7	1.00	44
	S9.5C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.22	7	7	1.00	37

317+50.00 SUITABLE						
Common Exc	12.90	26	26	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		63
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.82	7	7	1.00		56
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.05	10	10	1.00		46
318+00.00 SUITABLE						
Common Exc	10.11	21	21	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		67
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.72	7	7	1.00		60
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.42	15	15	1.00		45
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.99	1	1	1.00		44
318+50.00 SUITABLE						
Common Exc	4.31	13	13	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		57
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.27	7	7	1.00		50
S9.5C						
Common Exc	0.00	0	0	1.00		

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.88	18	18	1.00	32
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.12	7	7	1.00	25
319+00.00 SUITABLE					
Common Exc	1.27	5	5	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	30
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.36	6	6	1.00	24
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.33	18	18	1.00	6
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.44	17	17	1.00	-11
319+50.00 SUITABLE					
Common Exc	0.00	1	1	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.20	5	5	1.00	-15
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.36	7	7	1.00	-22
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.81	16	16	1.00	-38
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.62	24	24	1.00	-62

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	8.48	8	8	1.00		-70
320+00.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.88	9	9	1.00		-79
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.37	11	11	1.00		-90
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.81	14	14	1.00		-104
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.69	25	25	1.00		-129
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.03	12	12	1.00		-141
320+50.00 SUITABLE						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.87	9	9	1.00		-150
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.81	9	9	1.00		-159
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	7.81	14	14	1.00		-173
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.17	23	23	1.00	-196
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	4	4	1.00	-200
321+00.00 SUITABLE						
	Common Exc	6.46	6	6	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	5	5	1.00	-199
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.46	10	10	1.00	-209
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	14.20	20	20	1.00	-229
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.65	13	13	1.00	-242
321+50.00 SUITABLE						
	Common Exc	12.58	18	18	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-224
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.92	16	16	1.00	-240
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.74	18	18	1.00	-258
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.70	4	4	1.00	-262
B25.0C						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.70	7	7	1.00	-269
322+00.00 SUITABLE					
Common Exc	18.66	29	29	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.12	2	2	1.00	-242
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.80	15	15	1.00	-257
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.38	10	10	1.00	-267
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.95	5	5	1.00	-272
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.79	20	20	1.00	-292
322+50.00 SUITABLE					
Common Exc	60.88	74	74	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	2	2	1.00	-220
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	27.32	31	31	1.00	-251
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.19	13	13	1.00	-264
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	12.45	15	15	1.00	-279
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	31.96	42	42	1.00	-321
323+00.00	SUITABLE					
	Common Exc	78.34	129	129	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-192
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	32.10	55	55	1.00	-247
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.19	17	17	1.00	-264
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.45	23	23	1.00	-287
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.47	52	52	1.00	-339
323+50.00	SUITABLE					
	Common Exc	76.12	143	143	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-196
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	22.23	50	50	1.00	-246
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.19	18	18	1.00	-264
I19.0C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.73	27	27	1.00	-291
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.60	34	34	1.00	-325
324+00.00 SUITABLE					
Common Exc	86.36	150	150	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-175
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	22.53	41	41	1.00	-216
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.19	18	18	1.00	-234
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.14	29	29	1.00	-263
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.62	24	24	1.00	-287
324+50.00 SUITABLE					
Common Exc	87.70	161	161	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-126
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	22.70	42	42	1.00	-168
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.68	17	17	1.00	-185

I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.56	22	22	1.00		-207
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.43	23	23	1.00		-230
325+00.00 SUITABLE						
Common Exc	80.07	155	155	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-75
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	22.70	42	42	1.00		-117
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.18	17	17	1.00		-134
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.55	12	12	1.00		-146
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.61	21	21	1.00		-167
325+50.00 SUITABLE						
Common Exc	63.03	132	132	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-35
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	11.67	32	32	1.00		-67
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	5.55	14	14	1.00	-81
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.05	6	6	1.00	-87
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.49	21	21	1.00	-108
326+00.00 SUITABLE					
Common Exc	45.29	100	100	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-8
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.31	22	22	1.00	-30
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.99	6	6	1.00	-36
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.03	6	6	1.00	-42
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.42	21	21	1.00	-63
326+50.00 SUITABLE					
Common Exc	37.91	77	77	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	14
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.56	24	24	1.00	-10
S9.5C					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.97	2	2	1.00	-12
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.97	6	6	1.00	-18
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.22	21	21	1.00	-39
327+00.00 SUITABLE					
Common Exc	32.33	65	65	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.41	0	0	1.00	26
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.73	22	22	1.00	4
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.94	2	2	1.00	2
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.82	5	5	1.00	-3
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	13.07	22	22	1.00	-25
327+50.00 SUITABLE					
Common Exc	31.97	60	60	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.23	1	1	1.00	34
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	13.53	22	22	1.00	12
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.92	2	2	1.00	10
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.87	5	5	1.00	5
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.91	22	22	1.00	-17
328+00.00	SUITABLE					
	Common Exc	24.02	52	52	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	35
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.54	22	22	1.00	13
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	1	1	1.00	12
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.16	5	5	1.00	7
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.78	17	17	1.00	-10

↑

G R A N D	S U M M A R Y	T O T A L S
Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)

SUITABLE

Common Exc	1481	1481	1.00
Subgrade Exc	0	0	1.00

	Subsoil Exc	0	0	1.00
	Fill	33	33	1.00
SHOULDERBORROW				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	514	514	1.00
S9.5C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	293	293	1.00
I19.0C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	280	280	1.00
B25.0C				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	371	371	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Adjusted Volume (cu. yd.)
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	SUITABLE				
0	1.00	Common Exc	1481	1481	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	33	33	0
	SHOULDERBORROW				
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0

0	1.00	Fill	514	514	0
		S9.5C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	293	293	0
		I19.0C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	280	280	0
		B25.0C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	371	371	0

		B A L A N C E P O I N T S U M M A R Y			
		Material Name	Cumulative		Incremental
			Unadjusted	Adjusted	Unadjusted
			Volumes	Volumes	Volumes
			(cu. yd.)	(cu. yd.)	(cu. yd.)
			-----	-----	-----

Station = 318+84.72					
SUITABLE					
1.00		Common Exc	127	127	127
1.00		Subgrade Exc	0	0	0
1.00		Subsoil Exc	0	0	0
1.00		Fill	0	0	0
1.00		UNSUITABLE			
		Common Exc	0	0	0

1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	UNSUITABLEMARGINAL					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	DDE					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	UNSUITABLEDDE					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	UNDERCUT					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
1.00	SHOULDERBORROW					
		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00						

1.00		Fill	39	39	39	39
	SELECTMATERIAL					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	S9.5C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	69	69	69	69
	I19.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	20	20	20	20
	B25.0C					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	ABC					
1.00		Common Exc	0	0	0	0
1.00		Subgrade Exc	0	0	0	0
1.00		Subsoil Exc	0	0	0	0
1.00		Fill	0	0	0	0
	WALL					
1.00		Common Exc	0	0	0	0

1.00	Subgrade Exc	0	0	0	0
1.00	Subsoil Exc	0	0	0	0
1.00	Fill	0	0	0	0

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_L_Phase-5.inp

Output File: EW_L_Phase-5.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_L_phase-5.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5C
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = I19.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = B25.0C
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

```

1  99  99 lvname = Prop CMT Pvmt Course 3
1  100 100
1  101 101 Proposed Undercut
1  102 102 common exc only
1  103 103 soil type = ABC
1  104 104 fill mult factor = 1.00
1  105 105 type = line,line_string
1  106 106 lvname = Prop CMT Pvmt Course 4
1  107 107
1  108 108 Proposed Undercut
1  109 109 common exc only
1  110 110 soil type = Wall
1  111 111 fill mult factor = 1.00
1  112 112 type = line,line_string
1  113 113 lvname = Prop CMT Concrete Wall
1  114 114
1  115 115 excavation limits
1  116 116 lvname = Prop XS Exc Vertical Line 1
1  117 117 type = line
1  118 118
1  119 119 Write Earthwork Shapes
1  120 120 plot param
1  121 121 lvname = WEI XS Earthwork
1  122 122 Stratify Shape Color
1  123 123
1  124 124 vertical search distance = 200
1  125 125
1  126 126 /*calculate only between excavation limits*/
1  127 127
1  128 128 End Area Decimal Places = 2
1  129 129
1  130 130 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\05-L-Phase5-30300-31600.txt
1  131 131
1  132 132 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  133 133 column 1 number of decimal place = 0
1  134 134 column 1 total length = 10
1  135 135
1  136 136 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  137 137 column 2 number of decimal place = 0
1  138 138 column 2 total length = 10
1  139 139
1  140 140 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  141 141 column 3 number of decimal place = 0
1  142 142 column 3 total length = 10
1  143 143
1  144 144 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]

```

```

1 145 145 column 4 number of decimal place = 0
1 146 146 column 4 total length = 10
1 147 147
1 148 148 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 149 149 column 5 number of decimal place = 2
1 150 150 column 5 total length = 10
1 151 151
1 152 152 column 6 formula = ["S9.5C", Fill, End Area]
1 153 153 column 6 number of decimal place = 2
1 154 154 column 6 total length = 10
1 155 155
1 156 156 column 7 formula = ["I19.0C", Fill, End Area]
1 157 157 column 7 number of decimal place = 2
1 158 158 column 7 total length = 10
1 159 159
1 160 160 column 8 formula = ["B25.0C", Fill, End Area]
1 161 161 column 8 number of decimal place = 2
1 162 162 column 8 total length = 10
1 163 163
1 164 164 column 9 formula = ["ABC", Fill, End Area]
1 165 165 column 9 number of decimal place = 2
1 166 166 column 9 total length = 10
1 167 167
1 168 168 Process Earthwork for Baseline = L
1 169 169 job number = rdy
1 170 170
1 171 171 beg sta = 303+00.00
1 172 172 end sta = 316+00.00
1 173 173
1 174 174 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\05-L-Phase5-31600-33150.txt
1 175 175
1 176 176 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1 177 177 column 1 number of decimal place = 0
1 178 178 column 1 total length = 10
1 179 179
1 180 180 column 2 formula = ["SUITABLE", Fill, unadj vol]
1 181 181 column 2 number of decimal place = 0
1 182 182 column 2 total length = 10
1 183 183
1 184 184 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1 185 185 column 3 number of decimal place = 0
1 186 186 column 3 total length = 10
1 187 187
1 188 188 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1 189 189 column 4 number of decimal place = 0
1 190 190 column 4 total length = 10

```



```

1 191 191
1 192 192 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1 193 193 column 5 number of decimal place = 2
1 194 194 column 5 total length = 10
1 195 195
1 196 196 column 6 formula = ["S9.5C", Fill, End Area]
1 197 197 column 6 number of decimal place = 2
1 198 198 column 6 total length = 10
1 199 199
1 200 200 column 7 formula = ["I19.0C", Fill, End Area]
1 201 201 column 7 number of decimal place = 2
1 202 202 column 7 total length = 10
1 203 203
1 204 204 column 8 formula = ["B25.0C", Fill, End Area]
1 205 205 column 8 number of decimal place = 2
1 206 206 column 8 total length = 10
1 207 207
1 208 208 column 9 formula = ["ABC", Fill, End Area]
1 209 209 column 9 number of decimal place = 2
1 210 210 column 9 total length = 10
1 211 211
1 212 212 Process Earthwork for Baseline = L
1 213 213 job number = rdy
1 214 214
1 215 215 beg sta = 316+00.00
1 216 216 end sta = 331+50.00
1 217 217
1 218 218
1 219 219
1 220 220
1 221 221
1 222 222
1 223 223
1 224 224
0 0 225 END_OF_FILE

```

COMPUTING EARTHWORKS FOR BASELINE = L

COMPUTING EARTHWORKS FOR JOB = RDY

FORMING LIST OF XSCELLS

BEGINNING EARTHWORKS COMPUTATION

↑

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
307+50.00	SUITABLE					
	Common Exc	9.49	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	SHOULDERBORROW					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.55	0	0	1.00	0
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.01	0	0	1.00	0
308+00.00 SUITABLE					
Common Exc	13.12	21	21	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	21
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.90	20	20	1.00	1
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.30	7	7	1.00	-6
308+50.00 SUITABLE					
Common Exc	16.23	27	27	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	21
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.72	29	29	1.00	-8
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.36	8	8	1.00	-16
309+00.00 SUITABLE					
Common Exc	23.72	37	37	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	21
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	

Subsoil Exc	0.00	0	0	1.00	
Fill	25.65	41	41	1.00	-20
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	7	7	1.00	-27
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.70	3	3	1.00	-30
309+50.00 SUITABLE					
Common Exc	31.03	51	51	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	21
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	34.77	56	56	1.00	-35
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	5	5	1.00	-40
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.49	8	8	1.00	-48
310+00.00 SUITABLE					
Common Exc	40.92	67	67	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	19
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	48.92	77	77	1.00	-58
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	5	5	1.00	-63
I19.0C					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.67	8	8	1.00	-71
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.93	5	5	1.00	-76
310+50.00 SUITABLE					
Common Exc	24.77	61	61	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-15
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	34.73	77	77	1.00	-92
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.75	5	5	1.00	-97
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.92	12	12	1.00	-109
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	5	5	1.00	-114
311+00.00 SUITABLE					
Common Exc	38.70	59	59	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-55
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.45	46	46	1.00	-101
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	3.07	5	5	1.00	-106
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.12	15	15	1.00	-121
311+50.00	SUITABLE					
	Common Exc	28.07	62	62	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-59
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	26.71	39	39	1.00	-98
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.97	5	5	1.00	-103
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.99	10	10	1.00	-113
312+00.00	SUITABLE					
	Common Exc	33.56	57	57	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-56
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	27.12	50	50	1.00	-106
S9.5C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.85	4	4	1.00	-110
I19.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.73	6	6	1.00	-116
B25.0C	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.15	3	3	1.00	-119
312+50.00 SUITABLE					
Common Exc	37.32	66	66	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-53
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	28.31	51	51	1.00	-104
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.69	4	4	1.00	-108
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.07	8	8	1.00	-116
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.49	4	4	1.00	-120
313+00.00 SUITABLE					
Common Exc	40.46	72	72	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-48
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	31.49	55	55	1.00	-103
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.45	5	5	1.00	-108
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.14	10	10	1.00	-118

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	1	1	1.00		-119
313+50.00 SUITABLE						
Common Exc	47.08	81	81	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-38
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	38.81	65	65	1.00		-103
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	2.87	5	5	1.00		-108
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	5.16	10	10	1.00		-118
314+00.00 SUITABLE						
Common Exc	37.43	78	78	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-40
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	31.46	65	65	1.00		-105
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	3	3	1.00		-108
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	5	5	1.00		-113
314+50.00 SUITABLE						
Common Exc	53.35	84	84	1.00		

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-29
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.81	52	52	1.00	-81
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.35	9	9	1.00	-90
315+00.00 SUITABLE					
Common Exc	46.41	92	92	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	2
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	28.48	49	49	1.00	-47
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.31	22	22	1.00	-69
315+50.00 SUITABLE					
Common Exc	44.21	84	84	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	15
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	36.11	60	60	1.00	-45
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.24	27	27	1.00	-72
316+00.00 SUITABLE					
Common Exc	47.64	85	85	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

Fill	0.00	0	0	1.00	13
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	49.64	79	79	1.00	-66
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.24	21	21	1.00	-87

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G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
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SUITABLE

Common Exc	1084	1084	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	0	0	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	911	911	1.00

S9.5C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	68	68	1.00

I19.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	95	95	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	18	18	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	79	79	1.00

↑

S P L I T S U M M A R Y T O T A L S

XS Quant XS Quant Add/Sub Quant Add/Sub

Quant

Mult	Material Name	Unadjusted	Adjusted	Unadjusted	Adjusted
Factor		Volume	Volume	Volume	Volume
		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

SUITABLE					
	Common Exc	1084	1084		0
0	1.00				
	Subgrade Exc	0	0		0
0	1.00				
	Subsoil Exc	0	0		0
0	1.00				
	Fill	0	0		0
0	1.00				
SHOULDERBORROW					
	Common Exc	0	0		0
0	1.00				
	Subgrade Exc	0	0		0
0	1.00				
	Subsoil Exc	0	0		0
0	1.00				
	Fill	911	911		0
0	1.00				
S9.5C					
	Common Exc	0	0		0
0	1.00				
	Subgrade Exc	0	0		0
0	1.00				
	Subsoil Exc	0	0		0
0	1.00				
	Fill	68	68		0
0	1.00				
I19.0C					
	Common Exc	0	0		0
0	1.00				
	Subgrade Exc	0	0		0
0	1.00				
	Subsoil Exc	0	0		0
0	1.00				
	Fill	95	95		0
0	1.00				
B25.0C					
	Common Exc	0	0		0
0	1.00				
	Subgrade Exc	0	0		0
0	1.00				
	Subsoil Exc	0	0		0

0	1.00				
		Fill	18	18	0
0	1.00				
		WALL			
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	79	79	0

0 1.00
 COMPUTING EARTHWORKS FOR BASELINE = L
 COMPUTING EARTHWORKS FOR JOB = RDY
 FORMING LIST OF XSCELLS
 BEGINNING EARTHWORKS COMPUTATION

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
316+00.00	SUITABLE					
	Common Exc	47.64	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	49.64	0	0	1.00	0
	WALL					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.24	0	0	1.00	0
316+50.00	SUITABLE					
	Common Exc	38.65	80	80	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	80
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	49.46	92	92	1.00	-12
	WALL					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	

Subsoil Exc	0.00	0	0	1.00	
Fill	13.69	19	19	1.00	-31
317+00.00 SUITABLE					
Common Exc	38.59	72	72	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	41
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	57.30	99	99	1.00	-58
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.12	24	24	1.00	-82
317+50.00 SUITABLE					
Common Exc	38.87	72	72	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-10
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	63.46	112	112	1.00	-122
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.54	22	22	1.00	-144
318+00.00 SUITABLE					
Common Exc	39.55	73	73	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-71
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	69.91	123	123	1.00	-194
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.04	21	21	1.00	-215

318+50.00 SUITABLE						
Common Exc	39.35	73	73	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-142
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	72.07	131	131	1.00		-273
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.38	20	20	1.00		-293
319+00.00 SUITABLE						
Common Exc	39.68	73	73	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-220
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	78.78	140	140	1.00		-360
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.90	19	19	1.00		-379
319+50.00 SUITABLE						
Common Exc	36.78	71	71	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-308
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	80.44	147	147	1.00		-455
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.25	3	3	1.00		-458
I19.0C						
Common Exc	0.00	0	0	1.00		

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.91	4	4	1.00	-462
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.33	2	2	1.00	-464
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.70	17	17	1.00	-481
320+00.00 SUITABLE					
Common Exc	36.81	68	68	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-413
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	78.28	147	147	1.00	-560
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.25	6	6	1.00	-566
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.90	7	7	1.00	-573
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.45	8	8	1.00	-581
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.72	15	15	1.00	-596
320+50.00 SUITABLE					
Common Exc	37.15	68	68	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-528

SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	76.98	144	144	1.00		-672
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.25	6	6	1.00		-678
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.89	7	7	1.00		-685
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.97	16	16	1.00		-701
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.22	13	13	1.00		-714
321+00.00 SUITABLE						
Common Exc	22.59	55	55	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.01	0	0	1.00		-659
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	45.73	114	114	1.00		-773
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.25	6	6	1.00		-779
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.33	8	8	1.00		-787
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		

	Fill	25.30	34	34	1.00	-821
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.56	10	10	1.00	-831
321+50.00 SUITABLE						
	Common Exc	19.29	39	39	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-792
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	37.93	77	77	1.00	-869
S9.5C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.62	6	6	1.00	-875
I19.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.83	8	8	1.00	-883
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.46	46	46	1.00	-929
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	4	4	1.00	-933
322+00.00 SUITABLE						
	Common Exc	16.22	33	33	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	0	0	1.00	-900
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	30.85	64	64	1.00	-964
S9.5C						
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.25	6	6	1.00	-970
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.33	8	8	1.00	-978
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	19.40	41	41	1.00	-1019
322+50.00 SUITABLE					
Common Exc	30.36	43	43	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-976
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	36.38	62	62	1.00	-1038
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.25	6	6	1.00	-1044
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.33	8	8	1.00	-1052
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.75	33	33	1.00	-1085
323+00.00 SUITABLE					
Common Exc	24.95	51	51	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-1034
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.84	61	61	1.00	-1095

S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.25	6	6	1.00		-1101
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.33	8	8	1.00		-1109
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	13.30	27	27	1.00		-1136
323+50.00 SUITABLE						
Common Exc	20.09	42	42	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-1094
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	23.64	50	50	1.00		-1144
S9.5C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.25	6	6	1.00		-1150
I19.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.33	8	8	1.00		-1158
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	9.93	22	22	1.00		-1180
324+00.00 SUITABLE						
Common Exc	15.28	33	33	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.00	0	0	1.00		-1147
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	19.20	40	40	1.00	-1187
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.25	6	6	1.00	-1193
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.33	8	8	1.00	-1201
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.82	17	17	1.00	-1218
324+50.00 SUITABLE					
Common Exc	10.97	24	24	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-1194
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.10	32	32	1.00	-1226
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.28	6	6	1.00	-1232
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.37	8	8	1.00	-1240
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.08	15	15	1.00	-1255
325+00.00 SUITABLE					
Common Exc	7.98	18	18	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-1237
SHOULDERBORROW					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.74	23	23	1.00	-1260
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.25	6	6	1.00	-1266
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.46	8	8	1.00	-1274
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	7	7	1.00	-1281
325+50.00 SUITABLE					
Common Exc	8.69	15	15	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	0	0	1.00	-1266
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.26	16	16	1.00	-1282
S9.5C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.89	6	6	1.00	-1288
I19.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	4	4	1.00	-1292

↑

G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor
---------------	------------------------------------	----------------------------------	----------------

SUITABLE

Common Exc	1003	1003	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	0	0	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1674	1674	1.00

S9.5C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	75	75	1.00

I19.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	94	94	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	268	268	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	184	184	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted	XS Quant Adjusted	Add/Sub Quant Unadjusted	Add/Sub Adjusted
Mult		Volume	Volume	Volume	Volume
Factor		(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

SUITABLE

0	1.00	Common Exc	1003	1003	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	0	0	0

SHOULDERBORROW

0	1.00	Common Exc	0	0	0
		Subgrade Exc	0	0	0

0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	1674	1674	0
0	1.00				
	S9.5C				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	75	75	0
0	1.00				
	I19.0C				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	94	94	0
0	1.00				
	B25.0C				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	268	268	0
0	1.00				
	WALL				
		Common Exc	0	0	0
0	1.00				
		Subgrade Exc	0	0	0
0	1.00				
		Subsoil Exc	0	0	0
0	1.00				
		Fill	184	184	0
0	1.00				

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_Y1.inp

Output File: EW_Y1.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_Y1.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5B
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = B25.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = Wall
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string


```

1  99  99  lvname = Prop CMT Concrete Wall
1  100 100 lvname = Prop CMT Concrete Structures
1  101 101
1  102 102 excavation limits
1  103 103 lvname = Prop XS Exc Vertical Line 1
1  104 104 type = line
1  105 105
1  106 106 Write Earthwork Shapes
1  107 107 plot param
1  108 108 lvname = WEI XS Earthwork
1  109 109 Stratify Shape Color
1  110 110
1  111 111 vertical search distance = 200
1  112 112
1  113 113 /*calculate only between excavation limits*/
1  114 114
1  115 115 End Area Decimal Places = 2
1  116 116
1  117 117 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\06-Y1.txt
1  118 118
1  119 119 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  120 120 column 1 number of decimal place = 0
1  121 121 column 1 total length = 10
1  122 122
1  123 123 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  124 124 column 2 number of decimal place = 0
1  125 125 column 2 total length = 10
1  126 126
1  127 127 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  128 128 column 3 number of decimal place = 0
1  129 129 column 3 total length = 10
1  130 130
1  131 131 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1  132 132 column 4 number of decimal place = 0
1  133 133 column 4 total length = 10
1  134 134
1  135 135 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1  136 136 column 5 number of decimal place = 2
1  137 137 column 5 total length = 10
1  138 138
1  139 139 column 6 formula = ["S9.5B", Fill, End Area]
1  140 140 column 6 number of decimal place = 2
1  141 141 column 6 total length = 10
1  142 142
1  143 143 column 7 formula = ["B25.0C", Fill, End Area]
1  144 144 column 7 number of decimal place = 2

```

```

1  145  145 column 7 total length = 10
1  146  146
1  147  147 Process Earthwork for Baseline = Y1
1  148  148 job number = rdy
1  149  149
1  150  150 beg sta = 7+00.00
1  151  151 end sta = 12+78.00
1  152  152
1  153  153
1  154  154
1  155  155
1  156  156
1  157  157
1  158  158
1  159  159
1  160  160
0    0   161 END_OF_FILE

```

```

COMPUTING EARTHWORKS FOR BASELINE = Y1
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCCELLS
BEGINNING EARTHWORKS COMPUTATION

```

↑

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

7+00.00	SUITABLE					
	Common Exc	4.92	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.82	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.12	0	0	1.00	0
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.57	0	0	1.00	0
7+50.00	SUITABLE					
	Common Exc	0.95	5	5	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.13	5	5	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	

	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.20	0	0	1.00	0
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.99	11	11	1.00	-11
8+00.00	SUITABLE					
	Common Exc	24.58	24	24	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.60	15	15	1.00	-2
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.75	1	1	1.00	-3
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.79	15	15	1.00	-18
	B25.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	15.03	14	14	1.00	-32
8+43.00	SUITABLE					
	Common Exc	0.32	20	20	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	22.36	27	27	1.00	-39
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	1	1	1.00	-40
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.10	17	17	1.00	-57
	B25.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.48	31	31	1.00	-88
	WALL					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.64	9	9	1.00	-97
8+50.00 SUITABLE					
Common Exc	0.13	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	23.32	6	6	1.00	-103
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.10	3	3	1.00	-106
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.22	6	6	1.00	-112
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.64	3	3	1.00	-115
9+00.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	33.63	53	53	1.00	-168
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.10	22	22	1.00	-190
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	28.90	49	49	1.00	-239
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.64	22	22	1.00	-261
9+50.00 SUITABLE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	

	Subsoil Exc	0.00	0	0	1.00	
	Fill	25.49	55	55	1.00	-316
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.10	22	22	1.00	-338
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	23.79	49	49	1.00	-387
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.64	22	22	1.00	-409
10+00.00 SUITABLE						
	Common Exc	0.99	1	1	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	16.78	39	39	1.00	-447
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.10	22	22	1.00	-469
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	18.74	39	39	1.00	-508
WALL						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.64	22	22	1.00	-530
10+42.68 SUITABLE						
	Common Exc	3.01	3	3	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.55	18	18	1.00	-545
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.33	0	0	1.00	-545
S9.5B						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.66	20	20	1.00	-565
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.87	27	27	1.00	-592
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	9	9	1.00	-601
10+50.00 SUITABLE					
Common Exc	0.99	1	1	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.43	2	2	1.00	-602
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.63	0	0	1.00	-602
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.05	3	3	1.00	-605
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.89	3	3	1.00	-608
11+00.00 SUITABLE					
Common Exc	3.19	4	4	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.39	22	22	1.00	-626
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.63	1	1	1.00	-627
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	18.95	29	29	1.00	-656
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.23	20	20	1.00	-676
11+50.00 SUITABLE						
	Common Exc	6.40	9	9	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.28	19	19	1.00	-686
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.62	1	1	1.00	-687
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.67	27	27	1.00	-714
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.03	16	16	1.00	-730
12+00.00 SUITABLE						
	Common Exc	3.43	9	9	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.54	13	13	1.00	-734
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.61	1	1	1.00	-735
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.67	18	18	1.00	-753
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.55	9	9	1.00	-762

12+50.00 SUITABLE

Common Exc	7.50	10	10	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.75	10	10	1.00	-762
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.60	1	1	1.00	-763
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.66	14	14	1.00	-777
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.26	6	6	1.00	-783
12+78.00 SUITABLE					
Common Exc	0.00	4	4	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.40	1	1	1.00	-780
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.24	0	0	1.00	-780
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.05	7	7	1.00	-787
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.82	3	3	1.00	-790

↑

G R A N D	S U M M A R Y	T O T A L S	
Material Name	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor

SUITABLE

Common Exc	90	90	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	285	285	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	6	6	1.00

S9.5B

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	230	230	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	272	272	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	87	87	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)
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SUITABLE

0	1.00	Common Exc	90	90	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	285	285	0

SHOULDERBORROW

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	6	6	0

		S9.5B			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	230	230	0
		B25.0C			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	272	272	0
		WALL			
0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	87	87	0

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_Y2.inp

Output File: EW_Y2.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_Y2.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5B
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = B25.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = Wall
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

```

1  99  99  lvname = Prop CMT Concrete Wall
1  100 100 lvname = Prop CMT Concrete Structures
1  101 101
1  102 102 excavation limits
1  103 103 lvname = Prop XS Exc Vertical Line 1
1  104 104 type = line
1  105 105
1  106 106 Write Earthwork Shapes
1  107 107 plot param
1  108 108 lvname = WEI XS Earthwork
1  109 109 Stratify Shape Color
1  110 110
1  111 111 vertical search distance = 200
1  112 112
1  113 113 /*calculate only between excavation limits*/
1  114 114
1  115 115 End Area Decimal Places = 2
1  116 116
1  117 117 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\07-Y2.txt
1  118 118
1  119 119 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  120 120 column 1 number of decimal place = 0
1  121 121 column 1 total length = 10
1  122 122
1  123 123 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  124 124 column 2 number of decimal place = 0
1  125 125 column 2 total length = 10
1  126 126
1  127 127 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  128 128 column 3 number of decimal place = 0
1  129 129 column 3 total length = 10
1  130 130
1  131 131 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1  132 132 column 4 number of decimal place = 0
1  133 133 column 4 total length = 10
1  134 134
1  135 135 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1  136 136 column 5 number of decimal place = 2
1  137 137 column 5 total length = 10
1  138 138
1  139 139 column 6 formula = ["S9.5B", Fill, End Area]
1  140 140 column 6 number of decimal place = 2
1  141 141 column 6 total length = 10
1  142 142
1  143 143 column 7 formula = ["B25.0C", Fill, End Area]
1  144 144 column 7 number of decimal place = 2

```

```

1 145 145 column 7 total length = 10
1 146 146
1 147 147
1 148 148 Process Earthwork for Baseline = Y2
1 149 149 job number = rdy
1 150 150
1 151 151 beg sta = 10+26.00
1 152 152 end sta = 18+00.00
1 153 153
1 154 154
1 155 155
1 156 156
1 157 157
1 158 158
1 159 159
1 160 160
1 161 161
0 0 162 END_OF_FILE

```

```

COMPUTING EARTHWORKS FOR BASELINE = Y2
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCHELLS
BEGINNING EARTHWORKS COMPUTATION

```

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Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

10+26.00	SUITABLE					
	Common Exc	13.12	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	37.70	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.36	0	0	1.00	0
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.09	0	0	1.00	0
	B25.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	19.90	0	0	1.00	0
	WALL					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	

Subsoil Exc	0.00	0	0	1.00	
Fill	6.10	0	0	1.00	0
10+50.00 SUITABLE					
Common Exc	37.04	22	22	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.74	20	20	1.00	2
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	0	0	1.00	2
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.53	7	7	1.00	-5
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	10.40	13	13	1.00	-18
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.94	4	4	1.00	-22
11+00.00 SUITABLE					
Common Exc	20.40	53	53	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.92	15	15	1.00	16
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	15
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.81	13	13	1.00	2
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.53	16	16	1.00	-14
WALL					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.56	7	7	1.00	-21
11+50.00 SUITABLE					
Common Exc	0.49	19	19	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.30	16	16	1.00	-18
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	-19
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.07	16	16	1.00	-35
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.36	8	8	1.00	-43
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.56	7	7	1.00	-50
12+00.00 SUITABLE					
Common Exc	1.47	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.99	10	10	1.00	-58
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	-59
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.14	17	17	1.00	-76
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	1.66	4	4	1.00	-80
WALL	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.56	7	7	1.00	-87
12+50.00	SUITABLE					
	Common Exc	1.00	2	2	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.47	3	3	1.00	-88
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.35	1	1	1.00	-89
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.08	18	18	1.00	-107
	B25.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.58	3	3	1.00	-110
	WALL					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	3.56	7	7	1.00	-117
13+00.00	SUITABLE					
	Common Exc	1.68	2	2	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.34	2	2	1.00	-117
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.35	1	1	1.00	-118
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.72	18	18	1.00	-136
	B25.0C					
	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.83	3	3	1.00	-139
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.56	7	7	1.00	-146
13+50.00 SUITABLE					
Common Exc	0.86	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.59	3	3	1.00	-147
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	-148
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.08	17	17	1.00	-165
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.88	3	3	1.00	-168
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.56	7	7	1.00	-175
14+00.00 SUITABLE					
Common Exc	1.69	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.80	5	5	1.00	-178
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	-179
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.10	17	17	1.00	-196

B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	4.46	6	6	1.00		-202
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.56	7	7	1.00		-209
14+50.00 SUITABLE						
Common Exc	1.38	3	3	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.73	9	9	1.00		-215
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.35	1	1	1.00		-216
S9.5B						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	6.53	14	14	1.00		-230
B25.0C						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	10.88	14	14	1.00		-244
WALL						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	3.57	7	7	1.00		-251
15+00.00 SUITABLE						
Common Exc	0.98	2	2	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	38.24	42	42	1.00		-291
SHOULDERBORROW						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		
Subsoil Exc	0.00	0	0	1.00		
Fill	0.35	1	1	1.00		-292
S9.5B						
Common Exc	0.00	0	0	1.00		
Subgrade Exc	0.00	0	0	1.00		

Subsoil Exc	0.00	0	0	1.00	
Fill	6.53	12	12	1.00	-304
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.10	24	24	1.00	-328
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.59	7	7	1.00	-335
15+50.00 SUITABLE					
Common Exc	0.37	1	1	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.60	50	50	1.00	-384
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.35	1	1	1.00	-385
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.53	12	12	1.00	-397
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	18.10	31	31	1.00	-428
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	3.59	7	7	1.00	-435
16+00.00 SUITABLE					
Common Exc	0.17	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	26.00	39	39	1.00	-474
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.67	2	2	1.00	-476
S9.5B					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.95	12	12	1.00	-488
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.94	33	33	1.00	-521
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.71	5	5	1.00	-526
16+50.00 SUITABLE					
Common Exc	0.44	1	1	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.95	47	47	1.00	-572
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.67	3	3	1.00	-575
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.95	11	11	1.00	-586
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.62	32	32	1.00	-618
WALL					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.71	3	3	1.00	-621
17+00.00 SUITABLE					
Common Exc	1.32	2	2	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	16.43	38	38	1.00	-657
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	1.67	3	3	1.00	-660
S9.5B	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.95	11	11	1.00	-671
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	11.04	26	26	1.00	-697
WALL	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	1.71	3	3	1.00	-700
17+50.00	SUITABLE					
	Common Exc	3.87	5	5	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.18	19	19	1.00	-714
SHOULDERBORROW	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.71	2	2	1.00	-716
S9.5B	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	8.95	14	14	1.00	-730
B25.0C	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.05	12	12	1.00	-742
WALL	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	2	2	1.00	-744
18+00.00	SUITABLE					
	Common Exc	5.79	9	9	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.37	4	4	1.00	-739
SHOULDERBORROW	Common Exc	0.00	0	0	1.00	

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.11	1	1	1.00	-740
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	5.57	13	13	1.00	-753
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.00	2	2	1.00	-755

↑

G R A N D S U M M A R Y T O T A L S

Material Name	Unadjusted	Adjusted	Mult
	Volumes	Volumes	Factor
	(cu. yd.)	(cu. yd.)	

SUITABLE

Common Exc	127	127	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	322	322	1.00

SHOULDERBORROW

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	21	21	1.00

S9.5B

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	222	222	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	230	230	1.00

WALL

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	87	87	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	XS Quant	XS Quant	Add/Sub Quant	Add/Sub
Mult	Unadjusted	Adjusted	Unadjusted	Adjusted
	Volume	Volume	Volume	Volume

Factor			(cu. yd.)	(cu. yd.)	(cu. yd.)	(cu. yd.)

SUITABLE						
		Common Exc	127	127		0
0	1.00					
		Subgrade Exc	0	0		0
0	1.00					
		Subsoil Exc	0	0		0
0	1.00					
		Fill	322	322		0
0	1.00					
SHOULDERBORROW						
		Common Exc	0	0		0
0	1.00					
		Subgrade Exc	0	0		0
0	1.00					
		Subsoil Exc	0	0		0
0	1.00					
		Fill	21	21		0
0	1.00					
S9.5B						
		Common Exc	0	0		0
0	1.00					
		Subgrade Exc	0	0		0
0	1.00					
		Subsoil Exc	0	0		0
0	1.00					
		Fill	222	222		0
0	1.00					
B25.0C						
		Common Exc	0	0		0
0	1.00					
		Subgrade Exc	0	0		0
0	1.00					
		Subsoil Exc	0	0		0
0	1.00					
		Fill	230	230		0
0	1.00					
WALL						
		Common Exc	0	0		0
0	1.00					
		Subgrade Exc	0	0		0
0	1.00					
		Subsoil Exc	0	0		0
0	1.00					
		Fill	87	87		0
0	1.00					

Input File: R:\Roadway\CorridorModeling\Earthwork\Input Files\EW_Y3.inp

Output File: EW_Y3.log

```
1 1 1
1 2 2
1 3 3 Earthwork
1 4 4
1 5 5 tolerance = 0.004
1 6 6
1 7 7 xs dgn = HB0002_rdy_xsc_Y3.dgn
1 8 8
1 9 9 Proposed Finish Grade
1 10 10 soil type = Suitable
1 11 11 fill mult factor = 1.000000
1 12 12 type = line, line_string
1 13 13 lvname = Prop CMT Conc Surface
1 14 14 lvname = Prop CMT Pvmt Surface*
1 15 15 lvname = Prop CMT Slope Grass
1 16 16 lvname = Prop CMT Shear Line
1 17 17 lvname = Scratch_Level_8
1 18 18 lvname = Prop CMT Concrete Wall Surface
1 19 19
1 20 20 Existing Ground Line
1 21 21 soil type = Suitable
1 22 22 type = line, line_string
1 23 23 lvname = Exist XS Ground Line
1 24 24
1 25 25 existing suitable material
1 26 26 soil type = Suitable
1 27 27 fill mult factor = 1.00
1 28 28 type = line, line_string
1 29 29 lvname = WEI XS Soil-Suitable
1 30 30
1 31 31 existing suitable material
1 32 32 soil type = Unsuitable
1 33 33 fill mult factor = 1.00
1 34 34 type = line, line_string
1 35 35 lvname = WEI XS Soil-Unsuitable
1 36 36
1 37 37 existing suitable material
1 38 38 soil type = UnsuitableMarginal
1 39 39 fill mult factor = 1.00
1 40 40 type = line, line_string
1 41 41 lvname = WEI XS Soil-UnsuitableMarginal
1 42 42
1 43 43 existing suitable material
1 44 44 soil type = DDE
1 45 45 fill mult factor = 1.00
1 46 46 type = line, line_string
1 47 47 lvname = WEI XS Soil-DDE
1 48 48
```

1 49 49 existing suitable material
1 50 50 soil type = UnsuitableDDE
1 51 51 fill mult factor = 1.00
1 52 52 type = line, line_string
1 53 53 lvname = WEI XS Soil-UnsuitableDDE
1 54 54
1 55 55 existing unsuitable material
1 56 56 soil type = Undercut
1 57 57 fill mult factor = 1.00
1 58 58 type = line,line_string
1 59 59 lvname = WEI XS Soil-UnsuitableUndercut
1 60 60
1 61 61 Proposed Undercut
1 62 62 common exc only
1 63 63 soil type = ShoulderBorrow
1 64 64 fill mult factor = 1.00
1 65 65 type = line,line_string
1 66 66 lvname = Prop CMT Shoulder Borrow
1 67 67
1 68 68 Proposed Undercut
1 69 69 soil type = Suitable
1 70 70 fill mult factor = 1.00
1 71 71 type = line,line_string
1 72 72 lvname = WEI XS Fill-Suitable
1 73 73
1 74 74 Proposed Undercut
1 75 75 soil type = SelectMaterial
1 76 76 fill mult factor = 1.00
1 77 77 type = line,line_string
1 78 78 lvname = WEI XS Fill-SelectMaterial
1 79 79
1 80 80 Proposed Undercut
1 81 81 common exc only
1 82 82 soil type = S9.5B
1 83 83 fill mult factor = 1.00
1 84 84 type = line,line_string
1 85 85 lvname = Prop CMT Pvmnt Course 1
1 86 86
1 87 87 Proposed Undercut
1 88 88 common exc only
1 89 89 soil type = B25.0C
1 90 90 fill mult factor = 1.00
1 91 91 type = line,line_string
1 92 92 lvname = Prop CMT Pvmnt Course 2
1 93 93
1 94 94 Proposed Undercut
1 95 95 common exc only
1 96 96 soil type = Wall
1 97 97 fill mult factor = 1.00
1 98 98 type = line,line_string

```

1  99  99  lvname = Prop CMT Concrete Wall
1  100 100 lvname = Prop CMT Concrete Structures
1  101 101
1  102 102 excavation limits
1  103 103 lvname = Prop XS Exc Vertical Line 1
1  104 104 type = line
1  105 105
1  106 106 Write Earthwork Shapes
1  107 107 plot param
1  108 108 lvname = WEI XS Earthwork
1  109 109 Stratify Shape Color
1  110 110
1  111 111 vertical search distance = 200
1  112 112
1  113 113 /*calculate only between excavation limits*/
1  114 114
1  115 115 End Area Decimal Places = 2
1  116 116
1  117 117 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\08-Y3.txt
1  118 118
1  119 119 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
1  120 120 column 1 number of decimal place = 0
1  121 121 column 1 total length = 10
1  122 122
1  123 123 column 2 formula = ["SUITABLE", Fill, unadj vol]
1  124 124 column 2 number of decimal place = 0
1  125 125 column 2 total length = 10
1  126 126
1  127 127 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1  128 128 column 3 number of decimal place = 0
1  129 129 column 3 total length = 10
1  130 130
1  131 131 column 4 formula = ["SELECTMATERIAL", Fill, unadj vol]
1  132 132 column 4 number of decimal place = 0
1  133 133 column 4 total length = 10
1  134 134
1  135 135 column 5 formula = ["SHOULDERBORROW", Fill, end area]
1  136 136 column 5 number of decimal place = 2
1  137 137 column 5 total length = 10
1  138 138
1  139 139 column 6 formula = ["S9.5B", Fill, End Area]
1  140 140 column 6 number of decimal place = 2
1  141 141 column 6 total length = 10
1  142 142
1  143 143 column 7 formula = ["B25.0C", Fill, End Area]
1  144 144 column 7 number of decimal place = 2

```

```

1 145 145 column 7 total length = 10
1 146 146
1 147 147 Process Earthwork for Baseline = Y3
1 148 148 job number = rdy
1 149 149
1 150 150 beg sta = 23+00.00
1 151 151 end sta = 26+85.00
1 152 152
1 153 153
1 154 154
1 155 155
1 156 156
1 157 157
1 158 158
1 159 159
1 160 160
0 0 161 END_OF_FILE

```

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COMPUTING EARTHWORKS FOR BASELINE = Y3
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION

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Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate

23+00.00	SUITABLE					
	Common Exc	9.71	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.52	0	0	1.00	0
	SHOULDERBORROW					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.61	0	0	1.00	0
	S9.5B					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	5.29	0	0	1.00	0
	B25.0C					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.48	0	0	1.00	0
23+50.00	SUITABLE					
	Common Exc	2.84	12	12	1.00	
	Subgrade Exc	0.00	0	0	1.00	

Subsoil Exc	0.00	0	0	1.00	
Fill	32.96	31	31	1.00	-19
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.60	1	1	1.00	-20
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.72	12	12	1.00	-32
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.89	3	3	1.00	-35
24+00.00 SUITABLE					
Common Exc	7.14	9	9	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	68.66	94	94	1.00	-120
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.61	1	1	1.00	-121
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.79	14	14	1.00	-135
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	6.88	9	9	1.00	-144
24+50.00 SUITABLE					
Common Exc	5.81	12	12	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	66.96	126	126	1.00	-258
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.63	1	1	1.00	-259
S9.5B					

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.07	15	15	1.00	-274
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.96	17	17	1.00	-291
25+00.00 SUITABLE					
Common Exc	2.08	7	7	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	83.39	139	139	1.00	-423
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.63	1	1	1.00	-424
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.07	14	14	1.00	-438
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	15.72	26	26	1.00	-464
25+25.00 SUITABLE					
Common Exc	0.00	1	1	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	126.39	97	97	1.00	-560
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.63	1	1	1.00	-561
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	7.06	7	7	1.00	-568
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

	Fill	9.61	12	12	1.00	-580
25+50.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	155.35	130	130	1.00	-710
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.63	1	1	1.00	-711
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.07	7	7	1.00	-718
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	9.62	9	9	1.00	-727
26+00.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	320.97	441	441	1.00	-1168
SHOULDERBORROW						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.61	1	1	1.00	-1169
S9.5B						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	7.73	14	14	1.00	-1183
B25.0C						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	10.50	19	19	1.00	-1202
26+50.00 SUITABLE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	203.73	486	486	1.00	-1688
SHOULDERBORROW						

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.60	1	1	1.00	-1689
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	8.39	15	15	1.00	-1704
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	11.39	20	20	1.00	-1724
26+85.00 SUITABLE					
Common Exc	5.11	3	3	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.57	133	133	1.00	-1854
SHOULDERBORROW					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.60	1	1	1.00	-1855
S9.5B					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	12.91	14	14	1.00	-1869
B25.0C					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	17.40	19	19	1.00	-1888

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G R A N D S U M M A R Y T O T A L S					
Material Name		Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	

SUITABLE					
Common Exc		44	44	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		1677	1677	1.00	
SHOULDERBORROW					
Common Exc		0	0	1.00	
Subgrade Exc		0	0	1.00	
Subsoil Exc		0	0	1.00	
Fill		9	9	1.00	

S9.5B

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	112	112	1.00

B25.0C

Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	134	134	1.00

↑

S P L I T S U M M A R Y T O T A L S

Quant	Material Name	XS Quant Unadjusted Volume (cu. yd.)	XS Quant Adjusted Volume (cu. yd.)	Add/Sub Quant Unadjusted Volume (cu. yd.)	Add/Sub Quant Adjusted Volume (cu. yd.)
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SUITABLE

0	1.00	Common Exc	44	44	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	1677	1677	0

SHOULDERBORROW

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	9	9	0

S9.5B

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	112	112	0

B25.0C

0	1.00	Common Exc	0	0	0
0	1.00	Subgrade Exc	0	0	0
0	1.00	Subsoil Exc	0	0	0
0	1.00	Fill	134	134	0