Earthwork Balance Sheet

Volumes in Cubic Yards

PROJECT: HB-0003   COUNTY: Haywood   DATE: 4/9/2024   COMPILED BY: JCH

CHAIN	STATION	STATION	EXCAVATION					EMBANKMENT				BORROW	WASTE			
			TOTAL UNCLASS.	ROCK	UNDERCUT	UNSUIT. UNCLASS.	SUITABLE UNCLASS.	TOTAL	ROCK	EARTH	EMBANK. +15%	BORROW	ROCK	SUITABLE	UNSUIT.	TOTAL
	Phase 1															
-L- RT	171+40.00	190+00.00	22,610				22,610	46,856		46,856	53,884	31,274				
	190+00.00	208+00.00	10,487				10,487	12,184		12,184	14,012	3,525				
-Y1-	10+00.00	20+00.00	9,536				9,536	2		2	2			9,534		9,534
-TMP-DR1-	10+92.38	14+94.32	1,087				1,087	3		3	3			1,084		1,084
-DR1-	10+25.00	11+50.00	395				395	8		8	9			386		386
	Stage 1 Culvert Surcharge Placement										18,900	18,900				
	Stage 1 Culvert Surcharge Removal		18,900				18,900							18,900		18,900
		SUBTOTAL	63,015				63,015	59,053		59,053	86,810	53,699		29,904		29,904
	Phase 2															
-L- MEDIAN	171+40.00	190+00.00	429				429	312		312	359			70		70
	190+00.00	208+00.00	445				445	157		157	181			264		264
	Stage 2 Culvert Surcharge Placement											8,300	8,300			
	Stage 2 Culvert Surcharge Removal		8,300				8,300							8,300		8,300
		SUBTOTAL	9,174				9,174	469		469	8,840	8,300		8,634		8,634
	Phase 3															
-L- LT	171+40.00	190+00.00	7,267				7,267	2,632		2,632	3,027			4,240		4,240
	190+00.00	208+00.00	2,596				2,596	1,381		1,381	1,588			1,008		1,008
		SUBTOTAL	9,863				9,863	4,013		4,013	4,615			5,248		5,248
		TOTAL	82,052				82,052	63,535		63,535	100,265	61,999		43,786		43,786
	MATERIAL FOR SHOULDER CONSTRUCTION							5,000		5,000	5,750	5,750				
	LOSS DUE TO CLEARING & GRUBBING															
	ADDITIONAL UNDERCUT CONTINGENCY															
	WASTE IN LIEU OF BORROW											-29,904		-29,904		-29,904
	PROJECT TOTAL		82,052				82,052	68,535		68,535	106,015	37,845		13,882		13,882
	EST. 5% TO REPLACE TOP SOIL ON BORROW PIT											1,893				
	GRAND TOTAL		82,052									39,738		13,882		13,882
	SAY		87,000									42,000				

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 (CY)=   19,997

EST. DDE = 800 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, ESTIMATED 450 CUBIC YARDS OF UNDERCUT TO BE USED AT THE DISCRETION OF THE RESIDENT ENGINEER.

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Input  File: R:\Roadway\CorridorModeling\Earthwork\EW-INP\01-EW-L-RT-17140-20800.inp
Output File: 01-EW-L-RT-17140-20800.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 = HB0003_rdy_xsc_L.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
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```
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 = PaveStructure
1     63     63 fill mult factor = 1.00
1     64     64 type = line,line_string
1     65     65 lvname = Prop CMT Subgrade Earthwork
1     66     66
1     67     67 Proposed Undercut
1     68     68 common exc only
1     69     69 soil type = ShoulderBorrow
1     70     70 fill mult factor = 1.00
1     71     71 type = line,line_string
1     72     72 lvname = Prop XS Subgrade
1     73     73
1     74     74 Proposed Undercut
1     75     75 soil type = Suitable
1     76     76 fill mult factor = 1.00
1     77     77 type = line,line_string
1     78     78 lvname = WEI XS Fill-Suitable
1     79     79
1     80     80 Proposed Undercut
1     81     81 soil type = SelectMaterial
1     82     82 fill mult factor = 1.00
1     83     83 type = line,line_string
1     84     84 lvname = WEI XS Fill-SelectMaterial
1     85     85
1     86     86 excavation limits
1     87     87 lvname = Prop XS Exc Vertical Line 1
1     88     88 type = line
1     89     89
1     90     90 Write Earthwork Shapes
1     91     91 plot param
1     92     92 lvname = WEI XS Earthwork
1     93     93 Stratify Shape Color
1     94     94
1     95     95 vertical search distance = 200
1     96     96 calculate only between excavation limits
1     97     97 End Area Decimal Places = 2
1     98     98
```

```
  1    99     99 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\01-L-RT-17140-19000.txt
  1   100    100
  1   101    101 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
  1   102    102 column 1 number of decimal place = 0
  1   103    103 column 1 total length = 15
  1   104    104
  1   105    105 column 2 formula = ["SUITABLE", Fill, unadj vol]
  1   106    106 column 2 number of decimal place = 0
  1   107    107 column 2 total length = 15
  1   108    108
  1   109    109 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
  1   110    110 column 3 number of decimal place = 0
  1   111    111 column 3 total length = 15
  1   112    112
  1   113    113 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
  1   114    114 column 4 number of decimal place = 0
  1   115    115 column 4 total length = 15
  1   116    116
  1   117    117 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
  1   118    118 column 5 number of decimal place = 0
  1   119    119 column 5 total length = 15
  1   120    120
  1   121    121 column 6 formula = ["SHOULDERBORROW", Fill, end area]
  1   122    122 column 6 number of decimal place = 2
  1   123    123 column 6 total length = 15
  1   124    124
  1   125    125 Process Earthwork for Baseline = L
  1   126    126 job number = rdy
  1   127    127
  1   128    128 beg sta =   171+40.00
  1   129    129 end sta =   190+00.00
  1   130    130
  1   131    131 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\01-L-RT-19000-20800.txt
  1   132    132
  1   133    133 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
  1   134    134 column 1 number of decimal place = 0
  1   135    135 column 1 total length = 15
  1   136    136
  1   137    137 column 2 formula = ["SUITABLE", Fill, unadj vol]
  1   138    138 column 2 number of decimal place = 0
  1   139    139 column 2 total length = 15
  1   140    140
  1   141    141 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
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Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
 1    142    142 column 3 number of decimal place = 0
 1    143    143 column 3 total length = 15
 1    144    144
 1    145    145 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
 1    146    146 column 4 number of decimal place = 0
 1    147    147 column 4 total length = 15
 1    148    148
 1    149    149 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
 1    150    150 column 5 number of decimal place = 0
 1    151    151 column 5 total length = 15
 1    152    152
 1    153    153 column 6 formula = ["SHOULDERBORROW", Fill, end area]
 1    154    154 column 6 number of decimal place = 2
 1    155    155 column 6 total length = 15
 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 =  190+00.00
 1    161    161 end sta =  208+00.00
 1    162    162
 1    163    163
 1    164    164
 1    165    165
 1    166    166
 1    167    167
 1    168    168
 0      0    169 END_OF_FILE
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
171+40.00	SUITABLE					
	Common Exc	21.57	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
	PAVESTRUCTURE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.79	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	3.75	0	0	1.00	0

172+00.00 SUITABLE

Common Exc	21.64	48	48	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

PAVESTRUCTURE

Common 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	55	55	1.00	-7

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	3.70	8	8	1.00	-15

172+50.00 SUITABLE

Common Exc	19.47	38	38	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.17	1	1	1.00	22

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	28.49	49	49	1.00	-27

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	4.60	8	8	1.00	-35

173+00.00 SUITABLE

Common Exc	15.93	33	33	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.12	2	2	1.00	-4

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	27.59	52	52	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 | 5.41 | 9 | 9 | 1.00 | -65 |

173+50.00 SUITABLE

	Common Exc	15.29	29	29	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	2.60	3	3	1.00	-39

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	27.41	51	51	1.00	-90

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	-100

174+00.00 SUITABLE

	Common Exc	17.69	31	31	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.26	8	8	1.00	-77

PAVESTRUCTURE

	Common 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	49	49	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	5.49	10	10	1.00	-136

174+50.00 SUITABLE

	Common Exc	18.70	34	34	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	6.95	12	12	1.00	-114

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	25.62	48	48	1.00	-162

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	-172

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175+00.00 SUITABLE
         Common Exc      33.23      48      48    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill         0.00       6       6    1.00      -130
         PAVESTRUCTURE
         Common Exc       0.00       0       0    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill        24.58      46      46    1.00      -176
         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        10.52      15      15    1.00      -191

175+50.00 SUITABLE
         Common Exc      25.15      54      54    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill         7.33       7       7    1.00      -144
         PAVESTRUCTURE
         Common Exc       0.00       0       0    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill        29.56      50      50    1.00      -194
         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         7.85      17      17    1.00      -211

176+00.00 SUITABLE
         Common Exc      17.59      40      40    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill        63.69      66      66    1.00      -237
         PAVESTRUCTURE
         Common Exc       0.00       0       0    1.00
         Subgrade Exc     0.00       0       0    1.00
         Subsoil Exc      0.00       0       0    1.00
             Fill        35.40      60      60    1.00      -297
         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         9.13      16      16    1.00      -313

176+50.00 SUITABLE
         Common Exc      15.60      31      31    1.00
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Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	46.53	102	102	1.00	-384
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	37.03	67	67	1.00	-451
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	9.98	18	18	1.00	-469

177+00.00 SUITABLE

Common Exc	45.97	57	57	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	9.55	52	52	1.00	-464
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	36.64	68	68	1.00	-532
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	13.55	22	22	1.00	-554

177+50.00 SUITABLE

Common Exc	243.17	268	268	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.32	10	10	1.00	-296
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	37.34	69	69	1.00	-365
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	14.51	26	26	1.00	-391

178+00.00 SUITABLE

Common Exc	408.28	603	603	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

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              Fill         0.33         2         2    1.00       210
       PAVESTRUCTURE
         Common Exc       0.00         0         0    1.00
        Subgrade Exc      0.00         0         0    1.00
         Subsoil Exc      0.00         0         0    1.00
              Fill        39.87        71        71    1.00       139
       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        15.60        28        28    1.00       111

178+50.00 SUITABLE
         Common Exc      468.84       812       812    1.00
        Subgrade Exc      0.00         0         0    1.00
         Subsoil Exc      0.00         0         0    1.00
              Fill         0.37         1         1    1.00       922
       PAVESTRUCTURE
         Common Exc       0.00         0         0    1.00
        Subgrade Exc      0.00         0         0    1.00
         Subsoil Exc      0.00         0         0    1.00
              Fill        43.75        77        77    1.00       845
       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        16.84        30        30    1.00       815

179+00.00 SUITABLE
         Common Exc      437.22       839       839    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      1652
       PAVESTRUCTURE
         Common Exc       0.00         0         0    1.00
        Subgrade Exc      0.00         0         0    1.00
         Subsoil Exc      0.00         0         0    1.00
              Fill        48.12        85        85    1.00      1567
       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        16.96        31        31    1.00      1536

179+50.00 SUITABLE
         Common Exc      374.28       751       751    1.00
        Subgrade Exc      0.00         0         0    1.00
         Subsoil Exc      0.00         0         0    1.00
              Fill         2.77         4         4    1.00      2283
       PAVESTRUCTURE
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              Common Exc       0.00        0         0    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill            52.68       93        93    1.00      2190
            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            16.96       31        31    1.00      2159

180+00.00 SUITABLE
              Common Exc     294.48      619       619    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill             3.73        6         6    1.00      2772
            PAVESTRUCTURE
              Common Exc       0.00        0         0    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill            65.53      109       109    1.00      2663
            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            16.96       31        31    1.00      2632

180+50.00 SUITABLE
              Common Exc     159.74      421       421    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill             6.31        9         9    1.00      3044
            PAVESTRUCTURE
              Common Exc       0.00        0         0    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill            71.73      127       127    1.00      2917
            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            16.96       31        31    1.00      2886

181+00.00 SUITABLE
              Common Exc     273.01      401       401    1.00
              Subgrade Exc     0.00        0         0    1.00
              Subsoil Exc      0.00        0         0    1.00
              Fill             8.67       14        14    1.00      3273
            PAVESTRUCTURE
              Common Exc       0.00        0         0    1.00
              Subgrade Exc     0.00        0         0    1.00
```

```
            Subsoil Exc        0.00         0          0     1.00
            Fill              77.29       138        138     1.00       3135
        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              16.97        31         31     1.00       3104

181+50.00 SUITABLE
            Common Exc       541.77       754        754     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill              11.01        18         18     1.00       3840
        PAVESTRUCTURE
            Common Exc         0.00         0          0     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill              91.39       156        156     1.00       3684
        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              13.51        28         28     1.00       3656

182+00.00 SUITABLE
            Common Exc       931.36      1364       1364     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill              13.42        23         23     1.00       4997
        PAVESTRUCTURE
            Common Exc         0.00         0          0     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill             102.74       180        180     1.00       4817
        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              11.10        23         23     1.00       4794

182+50.00 SUITABLE
            Common Exc      1229.17      2000       2000     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill              14.50        26         26     1.00       6768
        PAVESTRUCTURE
            Common Exc         0.00         0          0     1.00
            Subgrade Exc       0.00         0          0     1.00
            Subsoil Exc        0.00         0          0     1.00
            Fill             105.16       192        192     1.00       6576
```

```
         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       11.56        21        21   1.00       6555

183+00.00 SUITABLE
            Common Exc   1497.65      2525      2525   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       9054
         PAVESTRUCTURE
            Common Exc      0.00         0         0   1.00
            Subgrade Exc    0.00         0         0   1.00
            Subsoil Exc     0.00         0         0   1.00
                Fill      104.54       194       194   1.00       8860
         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       12.11        22        22   1.00       8838

183+50.00 SUITABLE
            Common Exc   1752.71      3010      3010   1.00
            Subgrade Exc    0.00         0         0   1.00
            Subsoil Exc     0.00         0         0   1.00
                Fill        8.38        21        21   1.00      11827
         PAVESTRUCTURE
            Common Exc      0.00         0         0   1.00
            Subgrade Exc    0.00         0         0   1.00
            Subsoil Exc     0.00         0         0   1.00
                Fill      104.54       194       194   1.00      11633
         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       12.11        22        22   1.00      11611

184+00.00 SUITABLE
            Common Exc   1518.37      3029      3029   1.00
            Subgrade Exc    0.00         0         0   1.00
            Subsoil Exc     0.00         0         0   1.00
                Fill        2.21        10        10   1.00      14630
         PAVESTRUCTURE
            Common Exc      0.00         0         0   1.00
            Subgrade Exc    0.00         0         0   1.00
            Subsoil Exc     0.00         0         0   1.00
                Fill      104.54       194       194   1.00      14436
         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          12.11       22       22    1.00     14414

184+50.00 SUITABLE
         Common Exc     1208.89     2525     2525    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill           9.87       11       11    1.00     16928
        PAVESTRUCTURE
         Common Exc       0.00        0        0    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill         123.94      212      212    1.00     16716
        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          12.11       22       22    1.00     16694

185+00.00 SUITABLE
         Common Exc      608.49     1683     1683    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill          43.89       50       50    1.00     18327
        PAVESTRUCTURE
         Common Exc       0.00        0        0    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill         123.94      230      230    1.00     18097
        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          12.11       22       22    1.00     18075

185+50.00 SUITABLE
         Common Exc       0.00      563      563    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill         639.99      633      633    1.00     18005
        PAVESTRUCTURE
         Common Exc       0.00        0        0    1.00
        Subgrade Exc      0.00        0        0    1.00
        Subsoil Exc       0.00        0        0    1.00
           Fill         124.06      230      230    1.00     17775
        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         12.11       22         22    1.00     17753

186+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       1336.29     1830       1830    1.00     15923
          PAVESTRUCTURE
              Common Exc    0.00        0          0    1.00
              Subgrade Exc  0.00        0          0    1.00
              Subsoil Exc   0.00        0          0    1.00
              Fill        142.03      246        246    1.00     15677
          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       18         18    1.00     15659

186+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       2133.91     3213       3213    1.00     12446
          PAVESTRUCTURE
              Common Exc    0.00        0          0    1.00
              Subgrade Exc  0.00        0          0    1.00
              Subsoil Exc   0.00        0          0    1.00
              Fill        142.87      264        264    1.00     12182
          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     12168

187+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       2657.69     4437       4437    1.00      7731
          PAVESTRUCTURE
              Common Exc    0.00        0          0    1.00
              Subgrade Exc  0.00        0          0    1.00
              Subsoil Exc   0.00        0          0    1.00
              Fill        150.08      271        271    1.00      7460
          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      7446
```

```
187+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      3310.88       5526       5526    1.00       1920
           PAVESTRUCTURE
            Common Exc       0.00          0          0    1.00
           Subgrade Exc      0.00          0          0    1.00
            Subsoil Exc      0.00          0          0    1.00
                Fill       154.31        282        282    1.00       1638
           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       1624

188+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      3465.66       6275       6275    1.00      -4651
           PAVESTRUCTURE
            Common Exc       0.00          0          0    1.00
           Subgrade Exc      0.00          0          0    1.00
            Subsoil Exc      0.00          0          0    1.00
                Fill       159.23        290        290    1.00      -4941
           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      -4955

188+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      3744.86       6676       6676    1.00     -11631
           PAVESTRUCTURE
            Common Exc       0.00          0          0    1.00
           Subgrade Exc      0.00          0          0    1.00
            Subsoil Exc      0.00          0          0    1.00
                Fill       159.23        295        295    1.00     -11926
           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     -11940

189+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        3742.11     6932     6932   1.00    -18872
        PAVESTRUCTURE
            Common Exc        0.00        0        0   1.00
           Subgrade Exc       0.00        0        0   1.00
           Subsoil Exc        0.00        0        0   1.00
               Fill         164.41      300      300   1.00    -19172
        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    -19186

189+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        3713.04     6903     6903   1.00    -26089
        PAVESTRUCTURE
            Common Exc        0.00        0        0   1.00
           Subgrade Exc       0.00        0        0   1.00
           Subsoil Exc        0.00        0        0   1.00
               Fill         139.84      282      282   1.00    -26371
        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    -26385

190+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         541.17     3939     3939   1.00    -30324
        PAVESTRUCTURE
            Common Exc        0.00        0        0   1.00
           Subgrade Exc       0.00        0        0   1.00
           Subsoil Exc        0.00        0        0   1.00
               Fill         154.25      272      272   1.00    -30596
        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        7        7   1.00    -30603
          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     22610     22610   1.00
                    Subgrade Exc       0         0   1.00
                    Subsoil Exc        0         0   1.00
                    Fill           46856     46856   1.00
          PAVESTRUCTURE
                    Common Exc         0         0   1.00
                    Subgrade Exc       0         0   1.00
                    Subsoil Exc        0         0   1.00
                    Fill            5648      5648   1.00
          SHOULDERBORROW
                    Common Exc         0         0   1.00
                    Subgrade Exc       0         0   1.00
                    Subsoil Exc        0         0   1.00
                    Fill             709       709   1.00
```

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

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.)	Mult Factor
SUITABLE					
Common Exc	22610	22610	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	46856	46856	0	0	1.00
PAVESTRUCTURE					
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	5648	5648	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             709        709              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 = 177+88.94
        SUITABLE
                        Common Exc      1181       1181       1181       1181
1.00
                        Subgrade Exc       0          0          0          0
1.00
                        Subsoil Exc        0          0          0          0
1.00
                        Fill             271        271        271        271
1.00
        UNSUITABLE
                        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
        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					
PAVESTRUCTURE					
	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	719	719	719	719
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	191	191	191	191
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					

Station = 187+62.34

SUITABLE					
	Common Exc	22610	22610	21429	21429
1.00					
	Subgrade Exc	0	0	0	0

1.00					
	Subsoil Exc	0	0	0	0
1.00					
	Fill	17680	17680	17409	17409
1.00					
UNSUITABLE					
	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					
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					

```
       PAVESTRUCTURE
                          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            4281      4281      3562      3562
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             649       649       458       458
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
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
190+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	541.17	0	0	1.00	0
	PAVESTRUCTURE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	154.25	0	0	1.00	0
190+50.00	SUITABLE					
	Common Exc	0.01	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	

```
              Subsoil Exc      0.00         0         0    1.00
                  Fill      1239.86      1649      1649    1.00       -1649
          PAVESTRUCTURE
               Common Exc      0.00         0         0    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill       167.36       298       298    1.00       -1947

191+00.00 SUITABLE
               Common Exc      1.07         1         1    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill      1166.12      2228      2228    1.00       -4174
          PAVESTRUCTURE
               Common Exc      0.00         0         0    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill       159.27       302       302    1.00       -4476
          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         7         7    1.00       -4483

191+50.00 SUITABLE
               Common Exc      0.52         1         1    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill      1002.25      2008      2008    1.00       -6490
          PAVESTRUCTURE
               Common Exc      0.00         0         0    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill       148.86       285       285    1.00       -6775
          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       -6789

192+00.00 SUITABLE
               Common Exc      0.29         1         1    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill       895.38      1757      1757    1.00       -8545
          PAVESTRUCTURE
               Common Exc      0.00         0         0    1.00
             Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc      0.00         0         0    1.00
                  Fill       143.36       271       271    1.00       -8816
```

```
              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      -8830

192+50.00 SUITABLE
                  Common Exc      0.26        1        1   1.00
                Subgrade Exc      0.00        0        0   1.00
                 Subsoil Exc      0.00        0        0   1.00
                        Fill    770.10     1542     1542   1.00     -10371
              PAVESTRUCTURE
                  Common Exc      0.00        0        0   1.00
                Subgrade Exc      0.00        0        0   1.00
                 Subsoil Exc      0.00        0        0   1.00
                        Fill    139.77      262      262   1.00     -10633
              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      7.72       14       14   1.00     -10647

193+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    505.21     1181     1181   1.00     -11828
              PAVESTRUCTURE
                  Common 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      244      244   1.00     -12072
              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      7.96       15       15   1.00     -12087

193+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    306.90      752      752   1.00     -12839
              PAVESTRUCTURE
                  Common Exc      0.00        0        0   1.00
                Subgrade Exc      0.00        0        0   1.00
                 Subsoil Exc      0.00        0        0   1.00
                        Fill    123.98      230      230   1.00     -13069
              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              8.15        15        15    1.00    -13084

194+00.00 SUITABLE
          Common Exc        1.87         2         2    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill            212.05       481       481    1.00    -13563
          PAVESTRUCTURE
          Common Exc        0.00         0         0    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill            123.98       230       230    1.00    -13793
          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        17        17    1.00    -13810

194+50.00 SUITABLE
          Common Exc        6.63         8         8    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill            131.98       319       319    1.00    -14121
          PAVESTRUCTURE
          Common Exc        0.00         0         0    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill            104.59       212       212    1.00    -14333
          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             13.55        22        22    1.00    -14355

195+00.00 SUITABLE
          Common Exc       32.15        36        36    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill             36.80       156       156    1.00    -14475
          PAVESTRUCTURE
          Common Exc        0.00         0         0    1.00
          Subgrade Exc      0.00         0         0    1.00
          Subsoil Exc       0.00         0         0    1.00
          Fill            104.59       194       194    1.00    -14669
          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	16.65	28	28	1.00	-14697

195+50.00 SUITABLE

	Common Exc	316.78	323	323	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.00	34	34	1.00	-14408

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	101.19	191	191	1.00	-14599

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	24.93	39	39	1.00	-14638

196+00.00 SUITABLE

	Common Exc	410.55	673	673	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	-13965

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	97.79	184	184	1.00	-14149

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	29.79	51	51	1.00	-14200

196+50.00 SUITABLE

	Common Exc	426.56	775	775	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	-13425

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	94.39	178	178	1.00	-13603

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	34.65	60	60	1.00	-13663

```
197+00.00 SUITABLE
         Common Exc       392.54       758       758   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill            2.65         2         2   1.00    -12907
         PAVESTRUCTURE
         Common Exc         0.00         0         0   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill           89.06       170       170   1.00    -13077
         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           39.51        69        69   1.00    -13146

197+50.00 SUITABLE
         Common Exc       298.66       640       640   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill            3.26         5         5   1.00    -12511
         PAVESTRUCTURE
         Common Exc         0.00         0         0   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill           78.65       155       155   1.00    -12666
         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           44.34        78        78   1.00    -12744

198+00.00 SUITABLE
         Common Exc       247.57       506       506   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill            3.69         6         6   1.00    -12244
         PAVESTRUCTURE
         Common Exc         0.00         0         0   1.00
         Subgrade Exc       0.00         0         0   1.00
         Subsoil Exc        0.00         0         0   1.00
            Fill           67.42       135       135   1.00    -12379
         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           49.04        86        86   1.00    -12465

198+50.00 SUITABLE
         Common Exc       206.95       421       421   1.00
```

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.76	5	5	1.00	-12049
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	56.66	115	115	1.00	-12164
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	53.62	95	95	1.00	-12259

199+00.00 SUITABLE

Common Exc	190.06	368	368	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	2.62	4	4	1.00	-11895
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	46.44	95	95	1.00	-11990
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	58.94	104	104	1.00	-12094

199+50.00 SUITABLE

Common Exc	220.47	380	380	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	-11720
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	42.05	82	82	1.00	-11802
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	60.91	111	111	1.00	-11913

200+00.00 SUITABLE

Common Exc	396.28	571	571	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	

```
              Fill           3.42          7           7    1.00     -11349
          PAVESTRUCTURE
          Common Exc         0.00          0           0    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill          38.97         75          75    1.00     -11424
          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          60.91        113         113    1.00     -11537

200+50.00 SUITABLE
          Common Exc       474.32        806         806    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill           4.10          7           7    1.00     -10738
          PAVESTRUCTURE
          Common Exc         0.00          0           0    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill          36.12         70          70    1.00     -10808
          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          60.91        113         113    1.00     -10921

201+00.00 SUITABLE
          Common Exc       585.06        981         981    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill           0.57          4           4    1.00      -9944
          PAVESTRUCTURE
          Common Exc         0.00          0           0    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill          35.14         66          66    1.00     -10010
          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          60.91        113         113    1.00     -10123

201+50.00 SUITABLE
          Common Exc       511.89       1016        1016    1.00
         Subgrade Exc        0.00          0           0    1.00
          Subsoil Exc        0.00          0           0    1.00
              Fill           0.78          1           1    1.00      -9108
          PAVESTRUCTURE
```

```
              Common Exc      0.00        0        0    1.00
              Subgrade Exc     0.00        0        0    1.00
              Subsoil Exc      0.00        0        0    1.00
              Fill            41.08       71       71    1.00      -9179
          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            38.69       92       92    1.00      -9271

202+00.00 SUITABLE
              Common Exc    338.13      787      787    1.00
              Subgrade Exc     0.00        0        0    1.00
              Subsoil Exc      0.00        0        0    1.00
              Fill             1.18        2        2    1.00      -8486
          PAVESTRUCTURE
              Common Exc      0.00        0        0    1.00
              Subgrade Exc     0.00        0        0    1.00
              Subsoil Exc      0.00        0        0    1.00
              Fill            38.78       74       74    1.00      -8560
          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            20.07       54       54    1.00      -8614

202+50.00 SUITABLE
              Common Exc    236.04      532      532    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      -8084
          PAVESTRUCTURE
              Common Exc      0.00        0        0    1.00
              Subgrade Exc     0.00        0        0    1.00
              Subsoil Exc      0.00        0        0    1.00
              Fill            37.56       71       71    1.00      -8155
          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            20.08       37       37    1.00      -8192

203+00.00 SUITABLE
              Common Exc     99.33      311      311    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      -7883
          PAVESTRUCTURE
              Common Exc      0.00        0        0    1.00
              Subgrade Exc     0.00        0        0    1.00
```

```
            Subsoil Exc      0.00          0         0    1.00
               Fill         34.54         67        67    1.00      -7950
         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         21.16         38        38    1.00      -7988

203+50.00 SUITABLE
            Common Exc      35.16        125       125    1.00
           Subgrade Exc      0.00          0         0    1.00
            Subsoil Exc      0.00          0         0    1.00
               Fill          1.03          2         2    1.00      -7865
         PAVESTRUCTURE
            Common Exc       0.00          0         0    1.00
           Subgrade Exc      0.00          0         0    1.00
            Subsoil Exc      0.00          0         0    1.00
               Fill         31.58         61        61    1.00      -7926
         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         16.79         35        35    1.00      -7961

204+00.00 SUITABLE
            Common Exc      32.21         62        62    1.00
           Subgrade Exc      0.00          0         0    1.00
            Subsoil Exc      0.00          0         0    1.00
               Fill          1.47          2         2    1.00      -7901
         PAVESTRUCTURE
            Common Exc       0.00          0         0    1.00
           Subgrade Exc      0.00          0         0    1.00
            Subsoil Exc      0.00          0         0    1.00
               Fill         29.63         57        57    1.00      -7958
         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         16.12         30        30    1.00      -7988

204+50.00 SUITABLE
            Common Exc      30.77         58        58    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      -7931
         PAVESTRUCTURE
            Common Exc       0.00          0         0    1.00
           Subgrade Exc      0.00          0         0    1.00
            Subsoil Exc      0.00          0         0    1.00
               Fill         25.99         52        52    1.00      -7983
```

```
          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      4.86        19        19    1.00    -8002

205+00.00 SUITABLE
              Common Exc     26.96        53        53    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    -7949
          PAVESTRUCTURE
              Common Exc      0.00         0         0    1.00
            Subgrade Exc      0.00         0         0    1.00
             Subsoil Exc      0.00         0         0    1.00
                    Fill     26.69        49        49    1.00    -7998
          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        11        11    1.00    -8009

205+50.00 SUITABLE
              Common Exc     28.85        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    -7957
          PAVESTRUCTURE
              Common Exc      0.00         0         0    1.00
            Subgrade Exc      0.00         0         0    1.00
             Subsoil Exc      0.00         0         0    1.00
                    Fill     27.99        51        51    1.00    -8008
          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        10        10    1.00    -8018

206+00.00 SUITABLE
              Common Exc     15.95        41        41    1.00
            Subgrade Exc      0.00         0         0    1.00
             Subsoil Exc      0.00         0         0    1.00
                    Fill      3.85         4         4    1.00    -7981
          PAVESTRUCTURE
              Common Exc      0.00         0         0    1.00
            Subgrade Exc      0.00         0         0    1.00
             Subsoil Exc      0.00         0         0    1.00
                    Fill     28.19        52        52    1.00    -8033
          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       6.19        9        9    1.00       -8042

206+50.00 SUITABLE
               Common Exc      30.30       43       43    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       -8003
           PAVESTRUCTURE
               Common Exc       0.00        0        0    1.00
              Subgrade Exc      0.00        0        0    1.00
              Subsoil Exc       0.00        0        0    1.00
                     Fill      27.14       51       51    1.00       -8054
           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       5.69       11       11    1.00       -8065

207+00.00 SUITABLE
               Common Exc      28.81       55       55    1.00
              Subgrade Exc      0.00        0        0    1.00
              Subsoil Exc       0.00        0        0    1.00
                     Fill       5.71        5        5    1.00       -8015
           PAVESTRUCTURE
               Common Exc       0.00        0        0    1.00
              Subgrade Exc      0.00        0        0    1.00
              Subsoil Exc       0.00        0        0    1.00
                     Fill      25.56       49       49    1.00       -8064
           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       8.29       13       13    1.00       -8077

207+50.00 SUITABLE
               Common Exc      28.01       53       53    1.00
              Subgrade Exc      0.00        0        0    1.00
              Subsoil Exc       0.00        0        0    1.00
                     Fill       0.42        6        6    1.00       -8030
           PAVESTRUCTURE
               Common Exc       0.00        0        0    1.00
              Subgrade Exc      0.00        0        0    1.00
              Subsoil Exc       0.00        0        0    1.00
                     Fill      23.82       46       46    1.00       -8076
           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          10.17          17          17   1.00    -8093

  208+00.00 SUITABLE
              Common Exc       22.90          47          47   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    -8046
           PAVESTRUCTURE
              Common Exc        0.00           0           0   1.00
              Subgrade Exc      0.00           0           0   1.00
              Subsoil Exc       0.00           0           0   1.00
                    Fill       22.17          43          43   1.00    -8089
           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        8.03          17          17   1.00    -8106
```

♠   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	10487	10487	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	12184	12184	1.00
PAVESTRUCTURE			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	4838	4838	1.00
SHOULDERBORROW			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1571	1571	1.00

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

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.)	Mult Factor
SUITABLE					

	Common Exc	10487	10487	0	
0	1.00				
	Subgrade Exc	0	0	0	
0	1.00				
	Subsoil Exc	0	0	0	
0	1.00				
	Fill	12184	12184	0	
0	1.00				
PAVESTRUCTURE					
	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	4838	4838	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	1571	1571	0	
0	1.00				

```
Input  File:
R:\Roadway\CorridorModeling\Earthwork\EW-INP\02-EW-L-MED-17140-20800.inp
Output File: 02-EW-L-MED-17140-20800.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 = HB0003_rdy_xsc_L.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 = PaveStructure
1    63    63 fill mult factor = 1.00
1    64    64 type = line,line_string
1    65    65 lvname = Prop CMT Subgrade Earthwork
1    66    66
1    67    67 Proposed Undercut
1    68    68 common exc only
1    69    69 soil type = ShoulderBorrow
1    70    70 fill mult factor = 1.00
1    71    71 type = line,line_string
1    72    72 lvname = Prop XS Subgrade
1    73    73
1    74    74 Proposed Undercut
1    75    75 soil type = Suitable
1    76    76 fill mult factor = 1.00
1    77    77 type = line,line_string
1    78    78 lvname = WEI XS Fill-Suitable
1    79    79
1    80    80 Proposed Undercut
1    81    81 soil type = SelectMaterial
1    82    82 fill mult factor = 1.00
1    83    83 type = line,line_string
1    84    84 lvname = WEI XS Fill-SelectMaterial
1    85    85
1    86    86 excavation limits
1    87    87 lvname = Prop XS Exc Vertical Line 2
1    88    88 type = line
1    89    89
1    90    90 Write Earthwork Shapes
1    91    91 plot param
1    92    92 lvname = WEI XS Earthwork
1    93    93 Stratify Shape Color
1    94    94
1    95    95 vertical search distance = 200
1    96    96 calculate only between excavation limits
1    97    97 End Area Decimal Places = 2
```

```
 1    98    98
 1    99    99 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\02-L-MED-17140-19000.txt
 1   100   100
 1   101   101 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
 1   102   102 column 1 number of decimal place = 0
 1   103   103 column 1 total length = 15
 1   104   104
 1   105   105 column 2 formula = ["SUITABLE", Fill, unadj vol]
 1   106   106 column 2 number of decimal place = 0
 1   107   107 column 2 total length = 15
 1   108   108
 1   109   109 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
 1   110   110 column 3 number of decimal place = 0
 1   111   111 column 3 total length = 15
 1   112   112
 1   113   113 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
 1   114   114 column 4 number of decimal place = 0
 1   115   115 column 4 total length = 15
 1   116   116
 1   117   117 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
 1   118   118 column 5 number of decimal place = 0
 1   119   119 column 5 total length = 15
 1   120   120
 1   121   121 column 6 formula = ["SHOULDERBORROW", Fill, end area]
 1   122   122 column 6 number of decimal place = 2
 1   123   123 column 6 total length = 15
 1   124   124
 1   125   125 Process Earthwork for Baseline = L
 1   126   126 job number = rdy
 1   127   127
 1   128   128 beg sta =  171+40.00
 1   129   129 end sta =  190+00.00
 1   130   130
 1   131   131 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\02-L-MED-19000-20800.txt
 1   132   132
 1   133   133 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
 1   134   134 column 1 number of decimal place = 0
 1   135   135 column 1 total length = 15
 1   136   136
 1   137   137 column 2 formula = ["SUITABLE", Fill, unadj vol]
 1   138   138 column 2 number of decimal place = 0
 1   139   139 column 2 total length = 15
 1   140   140
```

```
 1    141    141 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
 1    142    142 column 3 number of decimal place = 0
 1    143    143 column 3 total length = 15
 1    144    144
 1    145    145 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
 1    146    146 column 4 number of decimal place = 0
 1    147    147 column 4 total length = 15
 1    148    148
 1    149    149 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
 1    150    150 column 5 number of decimal place = 0
 1    151    151 column 5 total length = 15
 1    152    152
 1    153    153 column 6 formula = ["SHOULDERBORROW", Fill, end area]
 1    154    154 column 6 number of decimal place = 2
 1    155    155 column 6 total length = 15
 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 =   190+00.00
 1    161    161 end sta =   208+00.00
 1    162    162
 1    163    163
 1    164    164
 1    165    165
 1    166    166
 1    167    167
 1    168    168
 0      0    169 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = L
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♠
```

	Material Name	End Areas	Unadjusted Volumes	Adjusted Volumes	Mult Factor	Mass Ordinate
Station		(sq. ft.)	(cu. yd.)	(cu. yd.)		
171+40.00	SUITABLE					
	Common Exc	4.63	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
	PAVESTRUCTURE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	4.63	0	0	1.00	0

```
172+00.00 SUITABLE
              Common Exc       4.63         10          10    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
              PAVESTRUCTURE
              Common Exc       0.00          0           0    1.00
              Subgrade Exc     0.00          0           0    1.00
              Subsoil Exc      0.00          0           0    1.00
                   Fill        4.63         10          10    1.00           0

172+50.00 SUITABLE
              Common Exc       4.63          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           9
              PAVESTRUCTURE
              Common Exc       0.00          0           0    1.00
              Subgrade Exc     0.00          0           0    1.00
              Subsoil Exc      0.00          0           0    1.00
                   Fill        4.63          9           9    1.00           0

173+00.00 SUITABLE
              Common Exc       4.63          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           9
              PAVESTRUCTURE
              Common Exc       0.00          0           0    1.00
              Subgrade Exc     0.00          0           0    1.00
              Subsoil Exc      0.00          0           0    1.00
                   Fill        4.63          9           9    1.00           0

173+50.00 SUITABLE
              Common Exc       4.63          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           9
              PAVESTRUCTURE
              Common Exc       0.00          0           0    1.00
              Subgrade Exc     0.00          0           0    1.00
              Subsoil Exc      0.00          0           0    1.00
                   Fill        4.63          9           9    1.00           0

174+00.00 SUITABLE
              Common Exc       4.63          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           9
              PAVESTRUCTURE
```

```
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill             4.63         9          9    1.00          0

174+50.00 SUITABLE
            Common Exc       4.63         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          9
            PAVESTRUCTURE
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill             4.63         9          9    1.00          0

175+00.00 SUITABLE
            Common Exc       7.39        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         11
            PAVESTRUCTURE
            Common 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        10         10    1.00          1

175+50.00 SUITABLE
            Common Exc       8.95        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         16
            PAVESTRUCTURE
            Common 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        15         15    1.00          1

176+00.00 SUITABLE
            Common Exc       5.36        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         14
            PAVESTRUCTURE
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill            13.99        22         22    1.00         -8

176+50.00 SUITABLE
```

```
          Common Exc      4.94        10        10    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
          PAVESTRUCTURE
          Common Exc      0.00         0         0    1.00
          Subgrade Exc    0.00         0         0    1.00
          Subsoil Exc     0.00         0         0    1.00
              Fill       21.37        33        33    1.00         -31

177+00.00 SUITABLE
          Common Exc      5.16         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         -22
          PAVESTRUCTURE
          Common Exc      0.00         0         0    1.00
          Subgrade Exc    0.00         0         0    1.00
          Subsoil Exc     0.00         0         0    1.00
              Fill       22.22        40        40    1.00         -62

177+50.00 SUITABLE
          Common Exc      5.28        10        10    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         -52
          PAVESTRUCTURE
          Common Exc      0.00         0         0    1.00
          Subgrade Exc    0.00         0         0    1.00
          Subsoil Exc     0.00         0         0    1.00
              Fill       20.97        40        40    1.00         -92

178+00.00 SUITABLE
          Common Exc      5.31        10        10    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         -82
          PAVESTRUCTURE
          Common Exc      0.00         0         0    1.00
          Subgrade Exc    0.00         0         0    1.00
          Subsoil Exc     0.00         0         0    1.00
              Fill       22.29        40        40    1.00        -122

178+50.00 SUITABLE
          Common Exc      5.65        10        10    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        -112
          PAVESTRUCTURE
          Common Exc      0.00         0         0    1.00
```

```
           Subgrade Exc      0.00        0         0    1.00
           Subsoil Exc       0.00        0         0    1.00
               Fill         23.76       43        43    1.00        -155

179+00.00 SUITABLE
           Common Exc        5.80       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        -144
           PAVESTRUCTURE
           Common Exc        0.00        0         0    1.00
           Subgrade Exc      0.00        0         0    1.00
           Subsoil Exc       0.00        0         0    1.00
               Fill         25.64       46        46    1.00        -190

179+50.00 SUITABLE
           Common Exc        6.46       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        -179
           PAVESTRUCTURE
           Common Exc        0.00        0         0    1.00
           Subgrade Exc      0.00        0         0    1.00
           Subsoil Exc       0.00        0         0    1.00
               Fill         27.03       49        49    1.00        -228

180+00.00 SUITABLE
           Common Exc        5.53       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        -217
           PAVESTRUCTURE
           Common Exc        0.00        0         0    1.00
           Subgrade Exc      0.00        0         0    1.00
           Subsoil Exc       0.00        0         0    1.00
               Fill         20.61       44        44    1.00        -261

180+50.00 SUITABLE
           Common Exc        5.54       10        10    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        -251
           PAVESTRUCTURE
           Common Exc        0.00        0         0    1.00
           Subgrade Exc      0.00        0         0    1.00
           Subsoil Exc       0.00        0         0    1.00
               Fill         22.41       40        40    1.00        -291

181+00.00 SUITABLE
           Common Exc        5.60       10        10    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	-281
PAVESTRUCTURE					
Common 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	44	44	1.00	-325

181+50.00 SUITABLE

Common Exc	7.19	12	12	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	-313
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	30.59	51	51	1.00	-364

182+00.00 SUITABLE

Common Exc	13.10	19	19	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	-345
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	42.37	68	68	1.00	-413

182+50.00 SUITABLE

Common Exc	10.99	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	-391
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	44.17	80	80	1.00	-471

183+00.00 SUITABLE

Common Exc	9.69	19	19	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	1.04	1	1	1.00	-453
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	

```
          Subsoil Exc      0.00         0          0    1.00
              Fill        49.89        87         87    1.00       -540

183+50.00 SUITABLE
          Common Exc      11.66        20         20    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill         5.22         6          6    1.00       -526
         PAVESTRUCTURE
          Common Exc       0.00         0          0    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill        57.06        99         99    1.00       -625

184+00.00 SUITABLE
          Common Exc      12.80        23         23    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill         9.14        13         13    1.00       -615
         PAVESTRUCTURE
          Common Exc       0.00         0          0    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill        61.31       110        110    1.00       -725

184+50.00 SUITABLE
          Common Exc      13.32        24         24    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill         0.02         8          8    1.00       -709
         PAVESTRUCTURE
          Common Exc       0.00         0          0    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill        46.13        99         99    1.00       -808

185+00.00 SUITABLE
          Common Exc      12.94        24         24    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill         0.57         1          1    1.00       -785
         PAVESTRUCTURE
          Common Exc       0.00         0          0    1.00
         Subgrade Exc      0.00         0          0    1.00
          Subsoil Exc      0.00         0          0    1.00
              Fill        49.83        89         89    1.00       -874

185+50.00 SUITABLE
          Common Exc      10.65        22         22    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      -853
             PAVESTRUCTURE
                 Common Exc       0.00        0        0    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill        58.98      101      101    1.00      -954

186+00.00 SUITABLE
                 Common Exc       7.45       17       17    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      -937
             PAVESTRUCTURE
                 Common Exc       0.00        0        0    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill        37.75       90       90    1.00     -1027

186+50.00 SUITABLE
                 Common Exc       5.54       12       12    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill         1.22        1        1    1.00     -1016
             PAVESTRUCTURE
                 Common Exc       0.00        0        0    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill        38.95       71       71    1.00     -1087

187+00.00 SUITABLE
                 Common Exc       2.74        8        8    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill         0.65        2        2    1.00     -1081
             PAVESTRUCTURE
                 Common Exc       0.00        0        0    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill        33.10       67       67    1.00     -1148

187+50.00 SUITABLE
                 Common Exc       2.15        5        5    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
                     Fill         1.28        2        2    1.00     -1145
             PAVESTRUCTURE
                 Common Exc       0.00        0        0    1.00
                Subgrade Exc      0.00        0        0    1.00
                 Subsoil Exc      0.00        0        0    1.00
```

```
              Fill        29.31        58       58    1.00    -1203

188+00.00 SUITABLE
         Common Exc        2.06         4        4    1.00
       Subgrade Exc        0.00         0        0    1.00
        Subsoil Exc        0.00         0        0    1.00
              Fill         1.09         2        2    1.00    -1201
       PAVESTRUCTURE
         Common Exc        0.00         0        0    1.00
       Subgrade Exc        0.00         0        0    1.00
        Subsoil Exc        0.00         0        0    1.00
              Fill        24.50        50       50    1.00    -1251

188+50.00 SUITABLE
         Common Exc        0.45         2        2    1.00
       Subgrade Exc        0.00         0        0    1.00
        Subsoil Exc        0.00         0        0    1.00
              Fill         3.67         4        4    1.00    -1253
       PAVESTRUCTURE
         Common Exc        0.00         0        0    1.00
       Subgrade Exc        0.00         0        0    1.00
        Subsoil Exc        0.00         0        0    1.00
              Fill        24.50        45       45    1.00    -1298

189+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        19.79        22       22    1.00    -1320
       PAVESTRUCTURE
         Common Exc        0.00         0        0    1.00
       Subgrade Exc        0.00         0        0    1.00
        Subsoil Exc        0.00         0        0    1.00
              Fill        19.32        41       41    1.00    -1361

189+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        41.75        57       57    1.00    -1418
       PAVESTRUCTURE
         Common 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        22       22    1.00    -1440

190+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        165.11          192          192   1.00      -1632
                PAVESTRUCTURE
                  Common 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           22           22   1.00      -1654
   ⬆          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            429          429   1.00
                     Subgrade Exc             0            0   1.00
                      Subsoil Exc             0            0   1.00
                          Fill              312          312   1.00
                PAVESTRUCTURE
                      Common Exc              0            0   1.00
                     Subgrade Exc             0            0   1.00
                      Subsoil Exc             0            0   1.00
                          Fill             1771         1771   1.00
   ⬆               S P L I T    S U M M A R Y    T O T A L S
```

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.)	Mult Factor
SUITABLE					
Common Exc	429	429	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	312	312	0	0	1.00
PAVESTRUCTURE					
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	1771	1771	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 = 172+00.00
        SUITABLE
                       Common Exc          10         10          10         10
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
        UNSUITABLE
                       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
        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					
PAVESTRUCTURE					
	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	10	10	10	10
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	0	0	0	0
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					
Station = 172+50.00					
SUITABLE					
	Common Exc	19	19	9	9
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					
UNSUITABLE					
	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					
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					
PAVESTRUCTURE					
	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	19	19	9	9
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	0	0	0	0
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					

  Station = 173+00.00

SUITABLE					
	Common Exc	28	28	9	9
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					
UNSUITABLE					
	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					
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					
PAVESTRUCTURE					
	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	28	28	9	9
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	0	0	0	0
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					

Station = 173+50.00
    SUITABLE

	Common Exc	37	37	9	9
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					

    UNSUITABLE

	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					

    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					

		Col1	Col2	Col3	Col4
	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					
PAVESTRUCTURE					
	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	37	37	9	9
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	0	0	0	0
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					

Station = 174+00.00

		Col1	Col2	Col3	Col4
SUITABLE					
	Common Exc	46	46	9	9
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					
UNSUITABLE					
	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					
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					
PAVESTRUCTURE					
	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	46	46	9	9
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	0	0	0	0
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					

  Station = 174+50.00

SUITABLE					
	Common Exc	55	55	9	9
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					
UNSUITABLE					
	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					
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					
PAVESTRUCTURE					
	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	9	9
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	0	0	0	0
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					

Station = 175+55.56

SUITABLE

	Common Exc	82	82	27	27
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					

UNSUITABLE

	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					

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
        PAVESTRUCTURE
                        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         27         27
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                  0          0          0          0
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
COMPUTING EARTHWORKS FOR BASELINE = L
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
⬆
            Material Name   End Areas  Unadjusted Adjusted  Mult   Mass
Station                                Volumes    Volumes   Factor Ordinate
                           (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
  190+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            165.11          0          0  1.00         0
            PAVESTRUCTURE
               Common 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        0          0   1.00          0

190+50.00 SUITABLE
                 Common Exc       2.74        3          3   1.00
                Subgrade Exc      0.00        0          0   1.00
                Subsoil Exc       0.00        0          0   1.00
                      Fill        0.00      153        153   1.00       -150
                PAVESTRUCTURE
                 Common Exc       0.00        0          0   1.00
                Subgrade Exc      0.00        0          0   1.00
                Subsoil Exc       0.00        0          0   1.00
                      Fill       24.50       41         41   1.00       -191

191+00.00 SUITABLE
                 Common Exc       4.30        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       -184
                PAVESTRUCTURE
                 Common Exc       0.00        0          0   1.00
                Subgrade Exc      0.00        0          0   1.00
                Subsoil Exc       0.00        0          0   1.00
                      Fill       23.42       44         44   1.00       -228

191+50.00 SUITABLE
                 Common Exc       6.62       10         10   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       -218
                PAVESTRUCTURE
                 Common Exc       0.00        0          0   1.00
                Subgrade Exc      0.00        0          0   1.00
                Subsoil Exc       0.00        0          0   1.00
                      Fill       32.50       52         52   1.00       -270

192+00.00 SUITABLE
                 Common Exc       6.93       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       -257
                PAVESTRUCTURE
                 Common Exc       0.00        0          0   1.00
                Subgrade Exc      0.00        0          0   1.00
                Subsoil Exc       0.00        0          0   1.00
                      Fill       36.40       64         64   1.00       -321

192+50.00 SUITABLE
                 Common Exc       6.42       12         12   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       -309
           PAVESTRUCTURE
               Common Exc        0.00         0         0    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill       38.63        69        69    1.00       -378

193+00.00 SUITABLE
               Common Exc        7.65        13        13    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill        2.56         2         2    1.00       -367
           PAVESTRUCTURE
               Common Exc        0.00         0         0    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill       52.48        84        84    1.00       -451

193+50.00 SUITABLE
               Common Exc       12.07        18        18    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill        0.02         2         2    1.00       -435
           PAVESTRUCTURE
               Common Exc        0.00         0         0    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill       46.44        92        92    1.00       -527

194+00.00 SUITABLE
               Common Exc       11.74        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       -505
           PAVESTRUCTURE
               Common Exc        0.00         0         0    1.00
              Subgrade Exc       0.00         0         0    1.00
              Subsoil Exc        0.00         0         0    1.00
                     Fill       41.75        82        82    1.00       -587

194+50.00 SUITABLE
               Common Exc       19.31        29        29    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       -558
           PAVESTRUCTURE
               Common Exc        0.00         0         0    1.00
              Subgrade Exc       0.00         0         0    1.00
```

```
           Subsoil Exc       0.00         0         0    1.00
           Fill             58.37        93        93    1.00        -651

195+00.00 SUITABLE
           Common Exc       21.17        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        -614
        PAVESTRUCTURE
           Common Exc        0.00         0         0    1.00
           Subgrade Exc      0.00         0         0    1.00
           Subsoil Exc       0.00         0         0    1.00
           Fill             52.88       103       103    1.00        -717

195+50.00 SUITABLE
           Common Exc       19.20        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        -680
        PAVESTRUCTURE
           Common Exc        0.00         0         0    1.00
           Subgrade Exc      0.00         0         0    1.00
           Subsoil Exc       0.00         0         0    1.00
           Fill             45.04        91        91    1.00        -771

196+00.00 SUITABLE
           Common Exc       16.08        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        -738
        PAVESTRUCTURE
           Common Exc        0.00         0         0    1.00
           Subgrade Exc      0.00         0         0    1.00
           Subsoil Exc       0.00         0         0    1.00
           Fill             40.54        79        79    1.00        -817

196+50.00 SUITABLE
           Common Exc        8.47        23        23    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        -794
        PAVESTRUCTURE
           Common Exc        0.00         0         0    1.00
           Subgrade Exc      0.00         0         0    1.00
           Subsoil Exc       0.00         0         0    1.00
           Fill             31.79        67        67    1.00        -861

197+00.00 SUITABLE
           Common Exc        4.29        12        12    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       -849
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
           Subgrade Exc       0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                 Fill        26.64       54       54    1.00       -903

197+50.00 SUITABLE
            Common Exc        4.54        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       -895
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
           Subgrade Exc       0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                 Fill        26.66       49       49    1.00       -944

198+00.00 SUITABLE
            Common Exc        3.34        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       -937
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
           Subgrade Exc       0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                 Fill        14.22       38       38    1.00       -975

198+50.00 SUITABLE
            Common Exc        3.61        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       -969
         PAVESTRUCTURE
            Common 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       27       27    1.00       -996

199+00.00 SUITABLE
            Common Exc        3.85        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       -989
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
           Subgrade Exc       0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
```

```
            Fill          17.05         30        30    1.00      -1019

199+50.00 SUITABLE
            Common Exc     3.38          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      -1012
         PAVESTRUCTURE
            Common Exc     0.00          0         0    1.00
            Subgrade Exc   0.00          0         0    1.00
            Subsoil Exc    0.00          0         0    1.00
            Fill          17.48         32        32    1.00      -1044

200+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      -1038
         PAVESTRUCTURE
            Common Exc     0.00          0         0    1.00
            Subgrade Exc   0.00          0         0    1.00
            Subsoil Exc    0.00          0         0    1.00
            Fill          19.50         34        34    1.00      -1072

200+50.00 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      -1066
         PAVESTRUCTURE
            Common Exc     0.00          0         0    1.00
            Subgrade Exc   0.00          0         0    1.00
            Subsoil Exc    0.00          0         0    1.00
            Fill          20.58         37        37    1.00      -1103

201+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      -1097
         PAVESTRUCTURE
            Common Exc     0.00          0         0    1.00
            Subgrade Exc   0.00          0         0    1.00
            Subsoil Exc    0.00          0         0    1.00
            Fill          20.48         38        38    1.00      -1135

201+50.00 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     -1129
       PAVESTRUCTURE
         Common Exc          0.00           0         0   1.00
       Subgrade Exc          0.00           0         0   1.00
        Subsoil Exc          0.00           0         0   1.00
              Fill           18.52          36        36   1.00     -1165

202+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     -1159
       PAVESTRUCTURE
         Common Exc          0.00           0         0   1.00
       Subgrade Exc          0.00           0         0   1.00
        Subsoil Exc          0.00           0         0   1.00
              Fill           15.04          31        31   1.00     -1190

202+50.00 SUITABLE
         Common Exc          3.66           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     -1183
       PAVESTRUCTURE
         Common 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          25        25   1.00     -1208

203+00.00 SUITABLE
         Common Exc          4.40           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     -1201
       PAVESTRUCTURE
         Common 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           20        20   1.00     -1221

203+50.00 SUITABLE
         Common Exc          4.66           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     -1213
       PAVESTRUCTURE
         Common Exc          0.00           0         0   1.00
       Subgrade Exc          0.00           0         0   1.00
        Subsoil Exc          0.00           0         0   1.00
              Fill           9.31           18        18   1.00     -1231
```

```
204+00.00 SUITABLE
              Common Exc      4.95            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       -1222
              PAVESTRUCTURE
              Common 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       -1239

204+50.00 SUITABLE
              Common Exc      9.08           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       -1226
              PAVESTRUCTURE
              Common Exc      0.00            0            0    1.00
              Subgrade Exc    0.00            0            0    1.00
              Subsoil Exc     0.00            0            0    1.00
                  Fill        7.21           15           15    1.00       -1241

205+00.00 SUITABLE
              Common Exc      4.87           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       -1228
              PAVESTRUCTURE
              Common 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           11           11    1.00       -1239

205+50.00 SUITABLE
              Common Exc      4.87            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       -1230
              PAVESTRUCTURE
              Common 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       -1239

206+00.00 SUITABLE
              Common Exc      4.87            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       -1230
```

```
          PAVESTRUCTURE
             Common 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      -1239

206+50.00 SUITABLE
             Common Exc      4.87          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      -1230
          PAVESTRUCTURE
             Common 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      -1239

207+00.00 SUITABLE
             Common Exc      4.87          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      -1230
          PAVESTRUCTURE
             Common 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      -1239

207+50.00 SUITABLE
             Common Exc      4.87          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      -1230
          PAVESTRUCTURE
             Common 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      -1239

208+00.00 SUITABLE
             Common Exc      4.87          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      -1230
          PAVESTRUCTURE
             Common Exc      0.00          0          0   1.00
             Subgrade Exc    0.00          0          0   1.00
             Subsoil Exc     0.00          0          0   1.00
                Fill         4.86          9          9   1.00      -1239
                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	445	445	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	157	157	1.00
PAVESTRUCTURE			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1527	1527	1.00

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

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.)	Mult Factor
SUITABLE					
Common Exc	445	445	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	157	157	0	0	1.00
PAVESTRUCTURE					
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	1527	1527	0	0	1.00

```
Input  File: R:\Roadway\CorridorModeling\Earthwork\EW-INP\03-EW-L-LT-17140-20800.inp
Output File: 03-EW-L-LT-17140-20800.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 = HB0003_rdy_xsc_L.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 = PaveStructure
1     63     63 fill mult factor = 1.00
1     64     64 type = line,line_string
1     65     65 lvname = Prop CMT Subgrade Earthwork
1     66     66
1     67     67 Proposed Undercut
1     68     68 common exc only
1     69     69 soil type = ShoulderBorrow
1     70     70 fill mult factor = 1.00
1     71     71 type = line,line_string
1     72     72 lvname = Prop XS Subgrade
1     73     73
1     74     74 Proposed Undercut
1     75     75 soil type = Suitable
1     76     76 fill mult factor = 1.00
1     77     77 type = line,line_string
1     78     78 lvname = WEI XS Fill-Suitable
1     79     79
1     80     80 Proposed Undercut
1     81     81 soil type = SelectMaterial
1     82     82 fill mult factor = 1.00
1     83     83 type = line,line_string
1     84     84 lvname = WEI XS Fill-SelectMaterial
1     85     85
1     86     86 excavation limits
1     87     87 lvname = Prop XS Exc Vertical Line 3
1     88     88 type = line
1     89     89
1     90     90 Write Earthwork Shapes
1     91     91 plot param
1     92     92 lvname = WEI XS Earthwork
1     93     93 Stratify Shape Color
1     94     94
1     95     95 vertical search distance = 200
1     96     96 calculate only between excavation limits
1     97     97 End Area Decimal Places = 2
1     98     98
```

```
  1    99     99 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\03-L-LT-17140-19000.txt
  1   100    100
  1   101    101 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
  1   102    102 column 1 number of decimal place = 0
  1   103    103 column 1 total length = 15
  1   104    104
  1   105    105 column 2 formula = ["SUITABLE", Fill, unadj vol]
  1   106    106 column 2 number of decimal place = 0
  1   107    107 column 2 total length = 15
  1   108    108
  1   109    109 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
  1   110    110 column 3 number of decimal place = 0
  1   111    111 column 3 total length = 15
  1   112    112
  1   113    113 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
  1   114    114 column 4 number of decimal place = 0
  1   115    115 column 4 total length = 15
  1   116    116
  1   117    117 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
  1   118    118 column 5 number of decimal place = 0
  1   119    119 column 5 total length = 15
  1   120    120
  1   121    121 column 6 formula = ["SHOULDERBORROW", Fill, end area]
  1   122    122 column 6 number of decimal place = 2
  1   123    123 column 6 total length = 15
  1   124    124
  1   125    125 Process Earthwork for Baseline = L
  1   126    126 job number = rdy
  1   127    127
  1   128    128 beg sta =  171+40.00
  1   129    129 end sta =  190+00.00
  1   130    130
  1   131    131 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\03-L-LT-19000-20800.txt
  1   132    132
  1   133    133 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
  1   134    134 column 1 number of decimal place = 0
  1   135    135 column 1 total length = 15
  1   136    136
  1   137    137 column 2 formula = ["SUITABLE", Fill, unadj vol]
  1   138    138 column 2 number of decimal place = 0
  1   139    139 column 2 total length = 15
  1   140    140
  1   141    141 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
```

Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
```
 1    142    142 column 3 number of decimal place = 0
 1    143    143 column 3 total length = 15
 1    144    144
 1    145    145 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
 1    146    146 column 4 number of decimal place = 0
 1    147    147 column 4 total length = 15
 1    148    148
 1    149    149 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
 1    150    150 column 5 number of decimal place = 0
 1    151    151 column 5 total length = 15
 1    152    152
 1    153    153 column 6 formula = ["SHOULDERBORROW", Fill, end area]
 1    154    154 column 6 number of decimal place = 2
 1    155    155 column 6 total length = 15
 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 =  190+00.00
 1    161    161 end sta =  208+00.00
 1    162    162
 1    163    163
 1    164    164
 1    165    165
 1    166    166
 1    167    167
 1    168    168
 1    169    169
 1    170    170
 0     0     171 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
171+40.00	SUITABLE					
	Common Exc	20.00	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	0
	PAVESTRUCTURE					
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.31	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    4.49        0        0    1.00        0

172+00.00 SUITABLE
                Common Exc   22.39       47       47    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       47
            PAVESTRUCTURE
                Common Exc    0.00        0        0    1.00
              Subgrade Exc    0.00        0        0    1.00
               Subsoil Exc    0.00        0        0    1.00
                      Fill   24.60       54       54    1.00       -7
            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    3.84        9        9    1.00      -16

172+50.00 SUITABLE
                Common Exc   21.37       41       41    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       25
            PAVESTRUCTURE
                Common Exc    0.00        0        0    1.00
              Subgrade Exc    0.00        0        0    1.00
               Subsoil Exc    0.00        0        0    1.00
                      Fill   24.62       46       46    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    3.42        7        7    1.00      -28

173+00.00 SUITABLE
                Common Exc   24.20       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       14
            PAVESTRUCTURE
                Common Exc    0.00        0        0    1.00
              Subgrade Exc    0.00        0        0    1.00
               Subsoil Exc    0.00        0        0    1.00
                      Fill   24.16       45       45    1.00      -31
            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	3.96	7	7	1.00	-38

173+50.00 SUITABLE

	Common Exc	23.03	44	44	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	6

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	24.12	45	45	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	3.42	7	7	1.00	-46

174+00.00 SUITABLE

	Common Exc	24.76	44	44	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

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	23.45	44	44	1.00	-46

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	4.83	8	8	1.00	-54

174+50.00 SUITABLE

	Common Exc	129.73	143	143	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	89

PAVESTRUCTURE

	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	23.48	43	43	1.00	46

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      6.62        11        11    1.00        35

175+00.00 SUITABLE
       Common Exc    278.03       378       378    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
PAVESTRUCTURE
       Common Exc      0.00         0         0    1.00
      Subgrade Exc     0.00         0         0    1.00
       Subsoil Exc     0.00         0         0    1.00
            Fill      25.46        45        45    1.00       368
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      20.71        25        25    1.00       343

175+50.00 SUITABLE
       Common Exc     49.78       304       304    1.00
      Subgrade Exc     0.00         0         0    1.00
       Subsoil Exc     0.00         0         0    1.00
            Fill       2.75         3         3    1.00       644
PAVESTRUCTURE
       Common Exc      0.00         0         0    1.00
      Subgrade Exc     0.00         0         0    1.00
       Subsoil Exc     0.00         0         0    1.00
            Fill      35.09        56        56    1.00       588
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      13.57        32        32    1.00       556

176+00.00 SUITABLE
       Common Exc     25.19        69        69    1.00
      Subgrade Exc     0.00         0         0    1.00
       Subsoil Exc     0.00         0         0    1.00
            Fill      39.70        39        39    1.00       586
PAVESTRUCTURE
       Common Exc      0.00         0         0    1.00
      Subgrade Exc     0.00         0         0    1.00
       Subsoil Exc     0.00         0         0    1.00
            Fill      37.26        67        67    1.00       519
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      10.31        22        22    1.00       497
```

```
176+50.00 SUITABLE
          Common Exc      15.94        38        38    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            24.97        60        60    1.00       475
          PAVESTRUCTURE
          Common Exc       0.00         0         0    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            40.62        72        72    1.00       403
          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             7.69        17        17    1.00       386

177+00.00 SUITABLE
          Common Exc      13.28        27        27    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            30.28        51        51    1.00       362
          PAVESTRUCTURE
          Common Exc       0.00         0         0    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            42.35        77        77    1.00       285
          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       271

177+50.00 SUITABLE
          Common Exc      12.73        24        24    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            62.09        86        86    1.00       209
          PAVESTRUCTURE
          Common Exc       0.00         0         0    1.00
          Subgrade Exc     0.00         0         0    1.00
          Subsoil Exc      0.00         0         0    1.00
          Fill            41.01        77        77    1.00       132
          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       118

178+00.00 SUITABLE
          Common Exc      13.91        25        25    1.00
```

```
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill          6.35     63     63    1.00        80
          PAVESTRUCTURE
              Common Exc        0.00      0      0    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill         41.63     77     77    1.00         3
          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          9.84     16     16    1.00       -13

178+50.00 SUITABLE
              Common Exc       13.36     25     25    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill          8.48     14     14    1.00        -2
          PAVESTRUCTURE
              Common Exc        0.00      0      0    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill         44.56     80     80    1.00       -82
          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         14.48     23     23    1.00      -105

179+00.00 SUITABLE
              Common Exc       12.97     24     24    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill         10.10     17     17    1.00       -98
          PAVESTRUCTURE
              Common Exc        0.00      0      0    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
                  Fill         43.71     82     82    1.00      -180
          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         18.91     31     31    1.00      -211

179+50.00 SUITABLE
              Common Exc       64.34     72     72    1.00
              Subgrade Exc      0.00      0      0    1.00
              Subsoil Exc       0.00      0      0    1.00
```

```
              Fill         5.67        15        15     1.00      -154
         PAVESTRUCTURE
           Common Exc      0.00         0         0     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill        40.47        78        78     1.00      -232
         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        22.49        38        38     1.00      -270

180+00.00 SUITABLE
           Common Exc    165.06       212       212     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill         6.85        12        12     1.00       -70
         PAVESTRUCTURE
           Common Exc      0.00         0         0     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill        36.13        71        71     1.00      -141
         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        26.00        45        45     1.00      -186

180+50.00 SUITABLE
           Common Exc    247.46       382       382     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill         6.26        12        12     1.00       184
         PAVESTRUCTURE
           Common Exc      0.00         0         0     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill        31.14        62        62     1.00       122
         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        29.43        51        51     1.00        71

181+00.00 SUITABLE
           Common Exc    299.85       507       507     1.00
          Subgrade Exc     0.00         0         0     1.00
           Subsoil Exc     0.00         0         0     1.00
              Fill         6.34        12        12     1.00       566
         PAVESTRUCTURE
```

```
              Common Exc       0.00      0      0    1.00
              Subgrade Exc     0.00      0      0    1.00
              Subsoil Exc      0.00      0      0    1.00
              Fill            27.05     54     54    1.00        512
          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            32.77     58     58    1.00        454

181+50.00 SUITABLE
              Common Exc     307.04    562    562    1.00
              Subgrade Exc     0.00      0      0    1.00
              Subsoil Exc      0.00      0      0    1.00
              Fill             6.21     12     12    1.00       1004
          PAVESTRUCTURE
              Common Exc       0.00      0      0    1.00
              Subgrade Exc     0.00      0      0    1.00
              Subsoil Exc      0.00      0      0    1.00
              Fill            25.94     49     49    1.00        955
          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            36.03     64     64    1.00        891

182+00.00 SUITABLE
              Common Exc     243.57    510    510    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       1390
          PAVESTRUCTURE
              Common Exc       0.00      0      0    1.00
              Subgrade Exc     0.00      0      0    1.00
              Subsoil Exc      0.00      0      0    1.00
              Fill            24.53     47     47    1.00       1343
          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            39.23     70     70    1.00       1273

182+50.00 SUITABLE
              Common Exc     124.52    341    341    1.00
              Subgrade Exc     0.00      0      0    1.00
              Subsoil Exc      0.00      0      0    1.00
              Fill             4.60     10     10    1.00       1604
          PAVESTRUCTURE
              Common Exc       0.00      0      0    1.00
              Subgrade Exc     0.00      0      0    1.00
```

```
            Subsoil Exc      0.00         0          0    1.00
            Fill            25.48        46         46    1.00    1558
        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            39.23        73         73    1.00    1485

183+00.00 SUITABLE
            Common Exc      61.48       172        172    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    1653
        PAVESTRUCTURE
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill            26.34        48         48    1.00    1605
        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            37.40        71         71    1.00    1534

183+50.00 SUITABLE
            Common Exc      72.18       124        124    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill             4.25         4          4    1.00    1654
        PAVESTRUCTURE
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill            25.43        48         48    1.00    1606
        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             4.65        39         39    1.00    1567

184+00.00 SUITABLE
            Common Exc       9.17        75         75    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill             1.73         6          6    1.00    1636
        PAVESTRUCTURE
            Common Exc       0.00         0          0    1.00
            Subgrade Exc     0.00         0          0    1.00
            Subsoil Exc      0.00         0          0    1.00
            Fill            23.56        45         45    1.00    1591
```

```
        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         4.65          9          9    1.00       1582

184+50.00 SUITABLE
           Common Exc    100.37        101        101    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       1681
        PAVESTRUCTURE
           Common Exc      0.00          0          0    1.00
          Subgrade Exc     0.00          0          0    1.00
           Subsoil Exc     0.00          0          0    1.00
              Fill        22.96         43         43    1.00       1638
        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        39.23         41         41    1.00       1597

185+00.00 SUITABLE
           Common Exc    132.98        216        216    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       1813
        PAVESTRUCTURE
           Common Exc      0.00          0          0    1.00
          Subgrade Exc     0.00          0          0    1.00
           Subsoil Exc     0.00          0          0    1.00
              Fill        21.76         41         41    1.00       1772
        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        39.23         73         73    1.00       1699

185+50.00 SUITABLE
           Common Exc    156.90        268        268    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       1967
        PAVESTRUCTURE
           Common Exc      0.00          0          0    1.00
          Subgrade Exc     0.00          0          0    1.00
           Subsoil Exc     0.00          0          0    1.00
              Fill        22.93         41         41    1.00       1926
        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	39.23	73	73	1.00	1853

186+00.00 SUITABLE

Common Exc	175.67	308	308	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	2161

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.06	44	44	1.00	2117

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	39.23	73	73	1.00	2044

186+50.00 SUITABLE

Common Exc	187.38	336	336	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	2380

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	26.55	47	47	1.00	2333

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	39.23	73	73	1.00	2260

187+00.00 SUITABLE

Common Exc	196.24	355	355	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	2615

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	31.02	53	53	1.00	2562

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	39.23	73	73	1.00	2489

187+50.00 SUITABLE

Common Exc	214.00	380	380	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	2869
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	32.42	59	59	1.00	2810
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	39.23	73	73	1.00	2737

188+00.00 SUITABLE

Common Exc	232.18	413	413	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	3150
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.56	57	57	1.00	3093
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	39.23	73	73	1.00	3020

188+50.00 SUITABLE

Common Exc	231.60	429	429	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	3449
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	33.62	58	58	1.00	3391
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	39.23	73	73	1.00	3318

```
189+00.00 SUITABLE
          Common Exc      0.00        214        214   1.00
          Subgrade Exc    0.00          0          0   1.00
          Subsoil Exc     0.00          0          0   1.00
          Fill          221.70        205        205   1.00      3327
          PAVESTRUCTURE
          Common Exc      0.00          0          0   1.00
          Subgrade Exc    0.00          0          0   1.00
          Subsoil Exc     0.00          0          0   1.00
          Fill           51.46         79         79   1.00      3248
          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           37.71         71         71   1.00      3177

189+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          587.86        750        750   1.00      2427
          PAVESTRUCTURE
          Common Exc      0.00          0          0   1.00
          Subgrade Exc    0.00          0          0   1.00
          Subsoil Exc     0.00          0          0   1.00
          Fill           90.93        132        132   1.00      2295
          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           37.11         69         69   1.00      2226

190+00.00 SUITABLE
          Common Exc     16.61         15         15   1.00
          Subgrade Exc    0.00          0          0   1.00
          Subsoil Exc     0.00          0          0   1.00
          Fill          755.76       1244       1244   1.00       997
          PAVESTRUCTURE
          Common Exc      0.00          0          0   1.00
          Subgrade Exc    0.00          0          0   1.00
          Subsoil Exc     0.00          0          0   1.00
          Fill           75.96        155        155   1.00       842
          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           39.98         71         71   1.00       771
    ↟      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	7267	7267	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	2632	2632	1.00
PAVESTRUCTURE			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	2267	2267	1.00
SHOULDERBORROW			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1597	1597	1.00

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

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.)	Mult Factor
SUITABLE					
Common Exc	7267	7267	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	2632	2632	0	0	1.00
PAVESTRUCTURE					
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	2267	2267	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	1597	1597	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 = 174+30.34

SUITABLE

		Cumulative Unadjusted	Cumulative Adjusted	Incremental Unadjusted	Incremental Adjusted
	Common Exc	305	305	305	305
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					

UNSUITABLE

	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					

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	PAVESTRUCTURE				
	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	260	260	260	260
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	45	45	45	45
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					

Station = 177+95.04
SUITABLE

	Common Exc	1224	1224	919	919

1.00					
	Subgrade Exc	0	0	0	0
1.00					
	Subsoil Exc	0	0	0	0
1.00					
	Fill	296	296	296	296
1.00	UNSUITABLE				
	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	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	PAVESTRUCTURE				
	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	740	740	480	480
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	187	187	142	142
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					

Station = 180+36.19

	SUITABLE				
	Common Exc	1835	1835	611	611
1.00					
	Subgrade Exc	0	0	0	0
1.00					
	Subsoil Exc	0	0	0	0
1.00					
	Fill	369	369	73	73
1.00	UNSUITABLE				
	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	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						
	PAVESTRUCTURE					
		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	1104	1104	364	364
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          363         363          176          176
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
COMPUTING EARTHWORKS FOR BASELINE = L
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
♠
              Material Name    End Areas  Unadjusted Adjusted  Mult   Mass
Station                                   Volumes    Volumes   Factor Ordinate
                               (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
  190+00.00 SUITABLE
                  Common Exc     16.61           0          0  1.00
                Subgrade Exc      0.00           0          0  1.00
                 Subsoil Exc      0.00           0          0  1.00
                        Fill    755.76           0          0  1.00        0
              PAVESTRUCTURE
                  Common Exc      0.00           0          0  1.00
                Subgrade Exc      0.00           0          0  1.00
                 Subsoil Exc      0.00           0          0  1.00
                        Fill     75.96           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     39.98           0          0  1.00        0

  190+50.00 SUITABLE
                  Common Exc    184.69         186        186  1.00
                Subgrade Exc      0.00           0          0  1.00
                 Subsoil Exc      0.00           0          0  1.00
                        Fill      0.00         700        700  1.00     -514
              PAVESTRUCTURE
                  Common Exc      0.00           0          0  1.00
                Subgrade Exc      0.00           0          0  1.00
                 Subsoil Exc      0.00           0          0  1.00
                        Fill     51.46         118        118  1.00     -632
              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	38.36	73	73	1.00	-705

191+00.00 SUITABLE

Common Exc	108.15	271	271	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	-434

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.18	75	75	1.00	-509

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	34.66	68	68	1.00	-577

191+50.00 SUITABLE

Common Exc	100.00	193	193	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	-384

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	29.27	54	54	1.00	-438

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	31.40	61	61	1.00	-499

192+00.00 SUITABLE

Common Exc	80.97	168	168	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	-331

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	30.84	56	56	1.00	-387

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	28.51	55	55	1.00	-442

```
192+50.00 SUITABLE
            Common Exc      63.73       134       134    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
            PAVESTRUCTURE
            Common Exc       0.00         0         0    1.00
            Subgrade Exc     0.00         0         0    1.00
            Subsoil Exc      0.00         0         0    1.00
                Fill        34.84        61        61    1.00        -369
            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        25.92        50        50    1.00        -419

193+00.00 SUITABLE
            Common Exc      96.30       148       148    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        -271
            PAVESTRUCTURE
            Common Exc       0.00         0         0    1.00
            Subgrade Exc     0.00         0         0    1.00
            Subsoil Exc      0.00         0         0    1.00
                Fill        39.30        69        69    1.00        -340
            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        23.60        46        46    1.00        -386

193+50.00 SUITABLE
            Common Exc      39.70       126       126    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        -260
            PAVESTRUCTURE
            Common Exc       0.00         0         0    1.00
            Subgrade Exc     0.00         0         0    1.00
            Subsoil Exc      0.00         0         0    1.00
                Fill        40.43        74        74    1.00        -334
            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        21.94        42        42    1.00        -376

194+00.00 SUITABLE
            Common Exc       4.31        41        41    1.00
```

	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	12.52	12	12	1.00	-347
PAVESTRUCTURE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	39.53	74	74	1.00	-421
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	4.08	24	24	1.00	-445

194+50.00 SUITABLE
	Common Exc	9.22	13	13	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.04	12	12	1.00	-444
PAVESTRUCTURE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	39.74	73	73	1.00	-517
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	21.94	24	24	1.00	-541

195+00.00 SUITABLE
	Common Exc	8.89	17	17	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	-524
PAVESTRUCTURE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	39.12	73	73	1.00	-597
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	20.46	39	39	1.00	-636

195+50.00 SUITABLE
	Common Exc	8.17	16	16	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	

```
              Fill          0.21          0          0   1.00     -620
       PAVESTRUCTURE
          Common Exc        0.00          0          0   1.00
         Subgrade Exc       0.00          0          0   1.00
          Subsoil Exc       0.00          0          0   1.00
              Fill         38.86         72         72   1.00     -692
       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         19.60         37         37   1.00     -729

196+00.00 SUITABLE
          Common Exc        8.78         16         16   1.00
         Subgrade Exc       0.00          0          0   1.00
          Subsoil Exc       0.00          0          0   1.00
              Fill          0.29          0          0   1.00     -713
       PAVESTRUCTURE
          Common Exc        0.00          0          0   1.00
         Subgrade Exc       0.00          0          0   1.00
          Subsoil Exc       0.00          0          0   1.00
              Fill         39.17         72         72   1.00     -785
       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         18.65         35         35   1.00     -820

196+50.00 SUITABLE
          Common Exc        7.01         15         15   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     -806
       PAVESTRUCTURE
          Common Exc        0.00          0          0   1.00
         Subgrade Exc       0.00          0          0   1.00
          Subsoil Exc       0.00          0          0   1.00
              Fill         37.70         71         71   1.00     -877
       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         17.05         33         33   1.00     -910

197+00.00 SUITABLE
          Common Exc        5.91         12         12   1.00
         Subgrade Exc       0.00          0          0   1.00
          Subsoil Exc       0.00          0          0   1.00
              Fill          0.69          1          1   1.00     -899
       PAVESTRUCTURE
```

```
              Common Exc       0.00          0          0     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill            37.86         70         70     1.00      -969
          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            15.11         30         30     1.00      -999

197+50.00 SUITABLE
              Common Exc       5.65         11         11     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill             0.79          1          1     1.00      -989
          PAVESTRUCTURE
              Common Exc       0.00          0          0     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill            37.46         70         70     1.00     -1059
          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            13.63         27         27     1.00     -1086

198+00.00 SUITABLE
              Common Exc       6.01         11         11     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill             4.61          5          5     1.00     -1080
          PAVESTRUCTURE
              Common Exc       0.00          0          0     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill            51.47         82         82     1.00     -1162
          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            12.02         24         24     1.00     -1186

198+50.00 SUITABLE
              Common Exc       4.91         10         10     1.00
              Subgrade Exc     0.00          0          0     1.00
              Subsoil Exc      0.00          0          0     1.00
              Fill            10.40         14         14     1.00     -1190
          PAVESTRUCTURE
              Common Exc       0.00          0          0     1.00
              Subgrade Exc     0.00          0          0     1.00
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              Subsoil Exc       0.00         0         0    1.00
                  Fill         54.54        98        98    1.00     -1288
          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         10.30        21        21    1.00     -1309

199+00.00 SUITABLE
              Common Exc        4.09         8         8    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         14.41        23        23    1.00     -1324
          PAVESTRUCTURE
              Common Exc        0.00         0         0    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         59.15       105       105    1.00     -1429
          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          8.46        17        17    1.00     -1446

199+50.00 SUITABLE
              Common Exc        3.77         7         7    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         19.75        32        32    1.00     -1471
          PAVESTRUCTURE
              Common Exc        0.00         0         0    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         63.62       114       114    1.00     -1585
          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          7.69        15        15    1.00     -1600

200+00.00 SUITABLE
              Common Exc        3.52         7         7    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         30.64        47        47    1.00     -1640
          PAVESTRUCTURE
              Common Exc        0.00         0         0    1.00
              Subgrade Exc      0.00         0         0    1.00
              Subsoil Exc       0.00         0         0    1.00
                  Fill         68.35       122       122    1.00     -1762
```

```
         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         7.69       14        14   1.00      -1776

200+50.00 SUITABLE
            Common Exc      3.31        6         6   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        39.72       65        65   1.00      -1835
         PAVESTRUCTURE
            Common Exc      0.00        0         0   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        68.51      127       127   1.00      -1962
         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         7.69       14        14   1.00      -1976

201+00.00 SUITABLE
            Common Exc     28.52       29        29   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        37.52       72        72   1.00      -2019
         PAVESTRUCTURE
            Common Exc      0.00        0         0   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        66.38      125       125   1.00      -2144
         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         7.69       14        14   1.00      -2158

201+50.00 SUITABLE
            Common Exc     41.89       65        65   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        27.41       60        60   1.00      -2153
         PAVESTRUCTURE
            Common Exc      0.00        0         0   1.00
           Subgrade Exc     0.00        0         0   1.00
            Subsoil Exc     0.00        0         0   1.00
               Fill        61.46      118       118   1.00      -2271
         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        7.96       14       14    1.00      -2285

202+00.00 SUITABLE
            Common Exc       52.87       88       88    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill       13.88       38       38    1.00      -2235
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill       55.20      108      108    1.00      -2343
         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        8.34       15       15    1.00      -2358

202+50.00 SUITABLE
            Common Exc      138.00      177      177    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill        6.74       19       19    1.00      -2200
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill       48.75       96       96    1.00      -2296
         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       10.57       18       18    1.00      -2314

203+00.00 SUITABLE
            Common Exc      113.90      233      233    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill       26.04       30       30    1.00      -2111
         PAVESTRUCTURE
            Common Exc        0.00        0        0    1.00
            Subgrade Exc      0.00        0        0    1.00
            Subsoil Exc       0.00        0        0    1.00
                  Fill       47.42       89       89    1.00      -2200
         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	10.79	20	20	1.00	-2220

203+50.00 SUITABLE

Common Exc	21.83	126	126	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	35.24	57	57	1.00	-2151

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	44.58	85	85	1.00	-2236

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	7.56	17	17	1.00	-2253

204+00.00 SUITABLE

Common Exc	30.17	48	48	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	4.89	37	37	1.00	-2242

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	38.50	77	77	1.00	-2319

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	9.12	15	15	1.00	-2334

204+50.00 SUITABLE

Common Exc	39.64	65	65	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	-2274

PAVESTRUCTURE

Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	31.16	65	65	1.00	-2339

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	10.37	18	18	1.00	-2357

```
205+00.00 SUITABLE
        Common Exc      25.28       60        60     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        46.35       43        43     1.00    -2340
        PAVESTRUCTURE
        Common Exc       0.00        0         0     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        26.34       53        53     1.00    -2393
        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         6.53       16        16     1.00    -2409

205+50.00 SUITABLE
        Common Exc      24.14       46        46     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        19.54       61        61     1.00    -2424
        PAVESTRUCTURE
        Common Exc       0.00        0         0     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        27.13       50        50     1.00    -2474
        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    -2486

206+00.00 SUITABLE
        Common Exc      22.04       43        43     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        15.02       32        32     1.00    -2475
        PAVESTRUCTURE
        Common Exc       0.00        0         0     1.00
        Subgrade Exc     0.00        0         0     1.00
         Subsoil Exc     0.00        0         0     1.00
            Fill        27.37       50        50     1.00    -2525
        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    -2537

206+50.00 SUITABLE
        Common Exc      26.13       45        45     1.00
```

Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.22	14	14	1.00	-2506
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	26.98	50	50	1.00	-2556
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	-2568

207+00.00 SUITABLE

Common Exc	25.11	47	47	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	-2521
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	26.32	49	49	1.00	-2570
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	6.21	12	12	1.00	-2582

207+50.00 SUITABLE

Common Exc	32.34	53	53	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	-2529
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	24.61	47	47	1.00	-2576
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	6.11	11	11	1.00	-2587

208+00.00 SUITABLE

Common Exc	27.41	55	55	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	-2532
PAVESTRUCTURE						
	Common Exc	0.00	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	22.82	44	44	1.00	-2576
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	5.08	10	10	1.00	-2586

⬆   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	2596	2596	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1381	1381	1.00
PAVESTRUCTURE			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	2836	2836	1.00
SHOULDERBORROW			
Common Exc	0	0	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	965	965	1.00

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

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.)	Mult Factor
SUITABLE					
Common Exc	2596	2596	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00

		1381	1381	0
0 1.00				
PAVESTRUCTURE				
	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	2836	2836	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	965	965	0
0 1.00				

```
Input  File: R:\Roadway\CorridorModeling\Earthwork\EW-INP\04-EW-Y1.inp
Output File: 04-EW-Y1.log
 1     1      1
 1     2      2
 1     3      3 Earthwork
 1     4      4
 1     5      5 tolerance = 0.005
 1     6      6
 1     7      7 xs dgn = HB0003_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
 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 = PaveStructure
1    63    63 fill mult factor = 1.00
1    64    64 type = line,line_string
1    65    65 lvname = Prop CMT Subgrade Earthwork
1    66    66 lvname = Exist CMT Pavement
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 excavation limits
1    81    81 lvname = Prop XS Exc Vertical Line 1
1    82    82 type = line
1    83    83
1    84    84 Write Earthwork Shapes
1    85    85 plot param
1    86    86 lvname = WEI XS Earthwork
1    87    87 Stratify Shape Color
1    88    88
1    89    89 vertical search distance = 200
1    90    90 /*calculate only between excavation limits*/
1    91    91 End Area Decimal Places = 2
1    92    92
1    93    93 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\04-Y1.txt
1    94    94
1    95    95 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
```

```
1    96     96 column 1 number of decimal place = 0
1    97     97 column 1 total length = 15
1    98     98
1    99     99 column 2 formula = ["SUITABLE", Fill, unadj vol]
1   100    100 column 2 number of decimal place = 0
1   101    101 column 2 total length = 15
1   102    102
1   103    103 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
1   104    104 column 3 number of decimal place = 0
1   105    105 column 3 total length = 15
1   106    106
1   107    107 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
1   108    108 column 4 number of decimal place = 0
1   109    109 column 4 total length = 15
1   110    110
1   111    111 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
1   112    112 column 5 number of decimal place = 0
1   113    113 column 5 total length = 15
1   114    114
1   115    115 Process Earthwork for Baseline = Y1
1   116    116 job number = rdy
1   117    117
1   118    118 beg sta =  10+00.00
1   119    119 end sta =  20+00.00
1   120    120
1   121    121
1   122    122
1   123    123
1   124    124
1   125    125
1   126    126
1   127    127
0     0    128 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = Y1
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
10+00.00	SUITABLE					
	Common Exc	12.24	0	0	1.00	
	Subgrade Exc	0.00	0	0	1.00	
	Subsoil Exc	0.00	0	0	1.00	
	Fill	0.47	0	0	1.00	0
	PAVESTRUCTURE					
	Common Exc	0.00	0	0	1.00	

```
            Subgrade Exc     0.00        0        0   1.00
            Subsoil Exc      0.00        0        0   1.00
                   Fill     12.14        0        0   1.00           0

10+50.00 SUITABLE
             Common Exc     18.88       29       29   1.00
            Subgrade Exc     0.00        0        0   1.00
            Subsoil Exc      0.00        0        0   1.00
                   Fill      0.72        1        1   1.00          28
        PAVESTRUCTURE
             Common Exc      0.00        0        0   1.00
            Subgrade Exc     0.00        0        0   1.00
            Subsoil Exc      0.00        0        0   1.00
                   Fill     13.81       24       24   1.00           4

11+00.00 SUITABLE
             Common Exc     64.56       77       77   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          80
        PAVESTRUCTURE
             Common Exc      0.00        0        0   1.00
            Subgrade Exc     0.00        0        0   1.00
            Subsoil Exc      0.00        0        0   1.00
                   Fill     13.81       26       26   1.00          54

11+50.00 SUITABLE
             Common Exc    131.57      182      182   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         236
        PAVESTRUCTURE
             Common 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         210

12+00.00 SUITABLE
             Common Exc    312.47      411      411   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         621
        PAVESTRUCTURE
             Common 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       29       29   1.00         592

12+50.00 SUITABLE
             Common Exc    462.60      718      718   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        1310
           PAVESTRUCTURE
               Common Exc       0.00        0        0   1.00
              Subgrade Exc      0.00        0        0   1.00
              Subsoil Exc       0.00        0        0   1.00
                    Fill       18.45       34       34   1.00        1276

12+68.00 SUITABLE
               Common Exc     221.23      228      228   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        1504
           PAVESTRUCTURE
               Common Exc       0.00        0        0   1.00
              Subgrade Exc      0.00        0        0   1.00
              Subsoil Exc       0.00        0        0   1.00
                    Fill       46.39       22       22   1.00        1482

13+00.00 SUITABLE
               Common Exc     242.04      275      275   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        1757
           PAVESTRUCTURE
               Common Exc       0.00        0        0   1.00
              Subgrade Exc      0.00        0        0   1.00
              Subsoil Exc       0.00        0        0   1.00
                    Fill       48.11       56       56   1.00        1701

13+50.00 SUITABLE
               Common Exc     275.62      479      479   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        2180
           PAVESTRUCTURE
               Common Exc       0.00        0        0   1.00
              Subgrade Exc      0.00        0        0   1.00
              Subsoil Exc       0.00        0        0   1.00
                    Fill       50.22       91       91   1.00        2089

14+00.00 SUITABLE
               Common Exc     317.93      550      550   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        2639
           PAVESTRUCTURE
               Common Exc       0.00        0        0   1.00
              Subgrade Exc      0.00        0        0   1.00
```

```
              Subsoil Exc       0.00         0         0   1.00
              Fill             53.78        96        96   1.00        2543

14+42.00 SUITABLE
              Common Exc      347.61       518       518   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        3061
              PAVESTRUCTURE
              Common Exc        0.00         0         0   1.00
              Subgrade Exc      0.00         0         0   1.00
              Subsoil Exc       0.00         0         0   1.00
              Fill             53.25        83        83   1.00        2978

14+50.00 SUITABLE
              Common Exc      439.15       117       117   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        3095
              PAVESTRUCTURE
              Common Exc        0.00         0         0   1.00
              Subgrade Exc      0.00         0         0   1.00
              Subsoil Exc       0.00         0         0   1.00
              Fill             18.45        11        11   1.00        3084

15+00.00 SUITABLE
              Common Exc      580.94       945       945   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        4029
              PAVESTRUCTURE
              Common Exc        0.00         0         0   1.00
              Subgrade Exc      0.00         0         0   1.00
              Subsoil Exc       0.00         0         0   1.00
              Fill             18.63        34        34   1.00        3995

15+50.00 SUITABLE
              Common Exc      584.34      1079      1079   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        5074
              PAVESTRUCTURE
              Common Exc        0.00         0         0   1.00
              Subgrade Exc      0.00         0         0   1.00
              Subsoil Exc       0.00         0         0   1.00
              Fill             16.13        32        32   1.00        5042

16+00.00 SUITABLE
              Common Exc      545.61      1046      1046   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       6088
        PAVESTRUCTURE
        Common Exc       0.00        0        0   1.00
        Subgrade Exc     0.00        0        0   1.00
        Subsoil Exc      0.00        0        0   1.00
            Fill        16.26       30       30   1.00       6058

16+50.00 SUITABLE
        Common Exc     416.66      891      891   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       6949
        PAVESTRUCTURE
        Common Exc       0.00        0        0   1.00
        Subgrade Exc     0.00        0        0   1.00
        Subsoil Exc      0.00        0        0   1.00
            Fill        20.98       34       34   1.00       6915

17+00.00 SUITABLE
        Common Exc     347.06      707      707   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       7622
        PAVESTRUCTURE
        Common Exc       0.00        0        0   1.00
        Subgrade Exc     0.00        0        0   1.00
        Subsoil Exc      0.00        0        0   1.00
            Fill        20.96       39       39   1.00       7583

17+50.00 SUITABLE
        Common Exc     233.87      538      538   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       8121
        PAVESTRUCTURE
        Common Exc       0.00        0        0   1.00
        Subgrade Exc     0.00        0        0   1.00
        Subsoil Exc      0.00        0        0   1.00
            Fill        13.83       32       32   1.00       8089

18+00.00 SUITABLE
        Common Exc     135.08      342      342   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       8431
        PAVESTRUCTURE
        Common Exc       0.00        0        0   1.00
        Subgrade Exc     0.00        0        0   1.00
        Subsoil Exc      0.00        0        0   1.00
```

```
                      Fill       13.83         26          26    1.00      8405


18+50.00 SUITABLE
            Common Exc    77.62        197         197    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      8602
        PAVESTRUCTURE
            Common Exc     0.00          0           0    1.00
           Subgrade Exc    0.00          0           0    1.00
           Subsoil Exc     0.00          0           0    1.00
                   Fill   13.82         26          26    1.00      8576


19+00.00 SUITABLE
            Common Exc    44.02        113         113    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      8689
        PAVESTRUCTURE
            Common 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      8663


19+50.00 SUITABLE
            Common Exc    20.55         60          60    1.00
           Subgrade Exc    0.00          0           0    1.00
           Subsoil Exc     0.00          0           0    1.00
                   Fill    0.03          0           0    1.00      8723
        PAVESTRUCTURE
            Common 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         26          26    1.00      8697


20+00.00 SUITABLE
            Common Exc    15.86         34          34    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      8731
        PAVESTRUCTURE
            Common Exc     0.00          0           0    1.00
           Subgrade Exc    0.00          0           0    1.00
           Subsoil Exc     0.00          0           0    1.00
                   Fill   14.22         26          26    1.00      8705
          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      9536      9536   1.00
                          Subgrade Exc        0         0   1.00
                           Subsoil Exc        0         0   1.00
                               Fill          2         2   1.00
          PAVESTRUCTURE
                           Common Exc         0         0   1.00
                          Subgrade Exc        0         0   1.00
                           Subsoil Exc        0         0   1.00
                               Fill        829       829   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
                           Common Exc      9536      9536            0
0   1.00
                          Subgrade Exc        0         0            0
0   1.00
                           Subsoil Exc        0         0            0
0   1.00
                               Fill          2         2            0
0   1.00
          PAVESTRUCTURE
                           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        829       829            0
0   1.00
```

```
Input  File: R:\Roadway\CorridorModeling\Earthwork\EW-INP\05-EW-DR1.inp
Output File: 05-EW-DR1.log
  1      1       1
  1      2       2
  1      3       3 Earthwork
  1      4       4
  1      5       5 tolerance = 0.005
  1      6       6
  1      7       7 xs dgn = HB0003_rdy_xsc_DR1.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 = PaveStructure
1      63      63 fill mult factor = 1.00
1      64      64 type = line,line_string
1      65      65 lvname = Prop CMT Subgrade Earthwork
1      66      66 lvname = Exist CMT Pavement
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 excavation limits
1      81      81 lvname = Prop XS Exc Vertical Line 1
1      82      82 type = line
1      83      83
1      84      84 Write Earthwork Shapes
1      85      85 plot param
1      86      86 lvname = WEI XS Earthwork
1      87      87 Stratify Shape Color
1      88      88
1      89      89 vertical search distance = 200
1      90      90 /*calculate only between excavation limits*/
1      91      91 End Area Decimal Places = 2
1      92      92
1      93      93 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\05-DR1.txt
1      94      94
1      95      95 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
```

```
   1    96     96 column 1 number of decimal place = 0
   1    97     97 column 1 total length = 15
   1    98     98
   1    99     99 column 2 formula = ["SUITABLE", Fill, unadj vol]
   1   100    100 column 2 number of decimal place = 0
   1   101    101 column 2 total length = 15
   1   102    102
   1   103    103 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
   1   104    104 column 3 number of decimal place = 0
   1   105    105 column 3 total length = 15
   1   106    106
   1   107    107 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
   1   108    108 column 4 number of decimal place = 0
   1   109    109 column 4 total length = 15
   1   110    110
   1   111    111 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
   1   112    112 column 5 number of decimal place = 0
   1   113    113 column 5 total length = 15
   1   114    114
   1   115    115 Process Earthwork for Baseline = DR1
   1   116    116 job number = rdy
   1   117    117
   1   118    118 beg sta =  10+25.00
   1   119    119 end sta =  11+50.00
   1   120    120
   1   121    121
   1   122    122
   1   123    123
   1   124    124
   1   125    125
   1   126    126
   1   127    127
   0     0    128 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = DR1
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
⬆
              Material Name   End Areas Unadjusted Adjusted   Mult   Mass
Station                                 Volumes    Volumes    Factor Ordinate
                              (sq. ft.) (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
   10+25.00 SUITABLE
                 Common Exc    406.52         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
             PAVESTRUCTURE
                 Common Exc      0.00         0          0   1.00
```

```
          Subgrade Exc      0.00        0        0   1.00
          Subsoil Exc       0.00        0        0   1.00
              Fill         34.63        0        0   1.00        0

10+50.00 SUITABLE
          Common Exc      144.33      255      255   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      255
          PAVESTRUCTURE
          Common Exc        0.00        0        0   1.00
          Subgrade Exc      0.00        0        0   1.00
          Subsoil Exc       0.00        0        0   1.00
              Fill         18.45       25       25   1.00      230

10+75.00 SUITABLE
          Common Exc       52.19       91       91   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      321
          PAVESTRUCTURE
          Common 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       15       15   1.00      306

11+00.00 SUITABLE
          Common Exc       15.53       31       31   1.00
          Subgrade Exc      0.00        0        0   1.00
          Subsoil Exc       0.00        0        0   1.00
              Fill          2.44        1        1   1.00      336
          PAVESTRUCTURE
          Common 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       13       13   1.00      323

11+25.00 SUITABLE
          Common Exc        4.77        9        9   1.00
          Subgrade Exc      0.00        0        0   1.00
          Subsoil Exc       0.00        0        0   1.00
              Fill          5.47        4        4   1.00      328
          PAVESTRUCTURE
          Common 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       13       13   1.00      315

11+50.00 SUITABLE
          Common Exc       13.88        9        9   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         321
       PAVESTRUCTURE
          Common 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           13           13   1.00         308
```

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	395	395	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	8	8	1.00
PAVESTRUCTURE			
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

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.)	Quant Mult Factor
SUITABLE					
Common Exc	395	395	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	8	8	0	0	1.00
PAVESTRUCTURE					
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

```
Input  File: R:\Roadway\CorridorModeling\Earthwork\EW-INP\06-EW-TMP-DR1.inp
Output File: 06-EW-TMP-DR1.log
 1     1        1
 1     2        2
 1     3        3 Earthwork
 1     4        4
 1     5        5 tolerance = 0.005
 1     6        6
 1     7        7 xs dgn = HB0003_rdy_xsc_TMP-DR1.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 = PaveStructure
1    63    63 fill mult factor = 1.00
1    64    64 type = line,line_string
1    65    65 lvname = Prop CMT Subgrade Earthwork
1    66    66 lvname = Exist CMT Pavement
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 excavation limits
1    81    81 lvname = Prop XS Exc Vertical Line 1
1    82    82 type = line
1    83    83
1    84    84 Write Earthwork Shapes
1    85    85 plot param
1    86    86 lvname = WEI XS Earthwork
1    87    87 Stratify Shape Color
1    88    88
1    89    89 vertical search distance = 200
1    90    90 /*calculate only between excavation limits*/
1    91    91 End Area Decimal Places = 2
1    92    92
1    93    93 write column base ascii file =
R:\Roadway\CorridorModeling\Earthwork\EW-TXT\06-TMP-DR1.txt
1    94    94
1    95    95 column 1 formula = ["SUITABLE", Common Exc, unadj vol] +
["UNSUITABLE", Common Exc, unadj vol] + ["UNSUITABLEMARGINAL", Common Exc, unadj
vol]
```

```
 1    96     96 column 1 number of decimal place = 0
 1    97     97 column 1 total length = 15
 1    98     98
 1    99     99 column 2 formula = ["SUITABLE", Fill, unadj vol]
 1   100    100 column 2 number of decimal place = 0
 1   101    101 column 2 total length = 15
 1   102    102
 1   103    103 column 3 formula = ["UNDERCUT", Common Exc, unadj vol] + ["UNDERCUT",
Subgrade Exc, unadj vol] + ["UNDERCUT", Subsoil Exc, unadj vol]
 1   104    104 column 3 number of decimal place = 0
 1   105    105 column 3 total length = 15
 1   106    106
 1   107    107 column 4 formula = ["PAVESTRUCTURE", Fill, unadj vol]
 1   108    108 column 4 number of decimal place = 0
 1   109    109 column 4 total length = 15
 1   110    110
 1   111    111 column 5 formula = ["SELECTMATERIAL", Fill, unadj vol]
 1   112    112 column 5 number of decimal place = 0
 1   113    113 column 5 total length = 15
 1   114    114
 1   115    115 Process Earthwork for Baseline = TMP-DR1
 1   116    116 job number = rdy
 1   117    117
 1   118    118 beg sta =  10+92.38
 1   119    119 end sta =  14+94.32
 1   120    120
 1   121    121
 1   122    122
 1   123    123
 1   124    124
 1   125    125
 1   126    126
 1   127    127
 0     0    128 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = TMP-DR1
COMPUTING EARTHWORKS FOR JOB = RDY
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
⬆
            Material Name   End Areas  Unadjusted Adjusted   Mult   Mass
Station                                Volumes    Volumes    Factor Ordinate
                           (sq. ft.)  (cu. yd.)  (cu. yd.)
----------- ---------------- ---------- ---------- ---------- ------ --------
   10+92.38 SUITABLE
                Common Exc     15.48          0          0   1.00
               Subgrade Exc     0.00          0          0   1.00
                Subsoil Exc     0.00          0          0   1.00
                       Fill     0.03          0          0   1.00          0
            PAVESTRUCTURE
                Common Exc      0.00          0          0   1.00
```

```
              Subgrade Exc       0.00         0          0    1.00
              Subsoil Exc        0.00         0          0    1.00
                     Fill       15.91         0          0    1.00           0

11+00.00 SUITABLE
               Common Exc        6.61         3          3    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           3
              PAVESTRUCTURE
               Common Exc        0.00         0          0    1.00
              Subgrade Exc       0.00         0          0    1.00
              Subsoil Exc        0.00         0          0    1.00
                     Fill       16.11         5          5    1.00          -2

11+50.00 SUITABLE
               Common Exc       12.87        18         18    1.00
              Subgrade Exc       0.00         0          0    1.00
              Subsoil Exc        0.00         0          0    1.00
                     Fill        0.21         1          1    1.00          15
              PAVESTRUCTURE
               Common 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        28         28    1.00         -13

12+00.00 SUITABLE
               Common Exc       14.68        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          13
              PAVESTRUCTURE
               Common Exc        0.00         0          0    1.00
              Subgrade Exc       0.00         0          0    1.00
              Subsoil Exc        0.00         0          0    1.00
                     Fill       12.01        24         24    1.00         -11

12+50.00 SUITABLE
               Common Exc        4.56        18         18    1.00
              Subgrade Exc       0.00         0          0    1.00
              Subsoil Exc        0.00         0          0    1.00
                     Fill        1.11         1          1    1.00           6
              PAVESTRUCTURE
               Common 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         -17

13+00.00 SUITABLE
               Common Exc       22.76        25         25    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	7
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	14.57	25	25	1.00	-18

13+50.00 SUITABLE

Common Exc	121.67	134	134	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	116
PAVESTRUCTURE					
Common 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	28	28	1.00	88

14+00.00 SUITABLE

Common Exc	330.00	418	418	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	506
PAVESTRUCTURE					
Common 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	476

14+43.97 SUITABLE

Common Exc	116.69	364	364	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	840
PAVESTRUCTURE					
Common 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	26	26	1.00	814

14+80.00 SUITABLE

Common Exc	3.42	80	80	1.00	
Subgrade Exc	0.00	0	0	1.00	
Subsoil Exc	0.00	0	0	1.00	
Fill	0.10	0	0	1.00	894
PAVESTRUCTURE					
Common Exc	0.00	0	0	1.00	
Subgrade Exc	0.00	0	0	1.00	

```
             Subsoil Exc        0.00          0          0   1.00
                   Fill        2.68         12         12   1.00        882

   14+94.32 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        0.00          0          0   1.00        883
             PAVESTRUCTURE
               Common 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        882
 ↟          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      1087       1087   1.00
                   Subgrade Exc         0          0   1.00
                    Subsoil Exc         0          0   1.00
                         Fill          3          3   1.00
             PAVESTRUCTURE
                     Common Exc         0          0   1.00
                   Subgrade Exc         0          0   1.00
                    Subsoil Exc         0          0   1.00
                         Fill        202        202   1.00
 ↟                  S P L I T    S U M M A R Y    T O T A L S
```

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.)	Mult Factor
SUITABLE					
Common Exc	1087	1087	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	3	3	0	0	1.00
PAVESTRUCTURE					

```
                              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               202         202              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 = 13+08.49
        SUITABLE
                              Common Exc         113         113        113         113
1.00
                              Subgrade Exc         0           0          0           0
1.00
                              Subsoil Exc          0           0          0           0
1.00
                              Fill                 3           3          3           3
1.00
        UNSUITABLE
                              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
        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					
PAVESTRUCTURE					
	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	110	110	110	110
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					