GRADING REPORT

COMPUTED BY: Neal McClatchey
CHECKED BY: Leah Hughes
FEDERAL PROJECT NO: STP/M-268(4)
ROUTE NO. OR STREET: SR-268

SHEET **1** OF **1**
STATE NO.: 75078-3206-54
PIN: 115906.00
COUNTY: Rutherford

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	98011	129814	88210
SIDE ROADS	5124	2930	4612
TEMPORARY PAVEMENT	2763	1380	2487
TOPSOIL (EMB.)	8768		
TOPSOIL (EXC.)	20291		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)		TOTALS (C.Y.)				
EXC.	EMB.	EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
0	0	134957	134124	134957	105898	95309

BALANCE SUMMARY

SHRINK = 10 % SWELL = 15 %

EMB.		EXC.
134124	VS.	-95309

AVAILABLE	=	38815
BORROW MATERIAL	=	42697

```
Input  File: ewkprj.inp
Output File: mainline.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268MainlineXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lvname = DESIGN - PUBLIC HEARING - Shapes
 1    19    19             lc = 0,ByLevel
 1    20    20             co = 1-3,6,8,161
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = ndards\tdot.ddb
 1    29    29             lvname = SURVEY - GROUND - Top of Ground
 1    30    30             lc = 2-4,6,ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             co = 2
 1    42    42
 1    43    43     Excavation Limit
 1    44    44             type = line
 1    45    45             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    46    46             lc = 0
 1    47    47             co = 0
```

```
 1    48    48
 1    49    49     Write Earthwork Shapes
 1    50    50         plot param
 1    51    51             lv = 347
 1    52    52             lvname = DESIGN - EARTHWORK - Shapes
 1    53    53             co = 2
 1    54    54             wt = 0
 1    55    55             lc = 0
 1    56    56             Stratify Shape Color
 1    57    57
 1    58    58
 1    59    59     Add Accumulated Adjusted Volume Column
 1    60    60
 1    61    61     Add Accumulated Unadjusted Volume Column
 1    62    62
 1    63    63     End Area Decimal Places = 0
 1    64    64
 1    65    65     write column base ascii file = P:\2013 Projects\13-08-0201 -
SR-268 Thompson
Lane\Transportation\Working\Quantities\Earthwork\EARTHWORK_02-25-25.txt
 1    66    66
 1    67    67     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    68    68     column 1 number of decimal place = 0
 1    69    69     column 1 total length = 10
 1    70    70
 1    71    71     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    72    72     column 2 number of decimal place = 0
 1    73    73     column 2 total length = 10
 1    74    74
 1    75    75     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    76    76     column 3 number of decimal place = 0
 1    77    77     column 3 total length = 10
 1    78    78
 1    79    79
 1    80    80     Process Earthwork for Baseline = THOMPSON
 1    81    81         job number = 268
 1    82    82
 1    83    83         beg sta = 10+00.00 R 1
 1    84    84         end sta = 238+95.95 R 2
 0     0    85 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = THOMPSON
COMPUTING EARTHWORKS FOR JOB = 268
FORMING LIST OF XSCELLS
BEGINNING EARTHWORKS COMPUTATION
↟
            Material Name    End Areas  Unadjusted Adjusted   Mult   Mass     Accum
      Accum
Station                                 Volumes    Volumes    Factor Ordinate Unadj
Vol   Adj Vol
                             (sq. ft.)  (cu. yd.)  (cu. yd.)                  (cu.
```

```
yd.)  (cu. yd.)
---------- --------------- ---------- ---------- ---------- ------ --------
---------- ----------
REGION = 1
   10+50.00 EARTH
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        35          0          0   1.00        0
0          0
            TOPSOIL
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       32         0          0   1.00
0          0
                    Fill         0          0          0   1.00        0
0          0
                Mass ordinate for TOPSOIL = 0

   11+00.00 EARTH
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        34         64         64   1.00      -64
64         64
            TOPSOIL
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       33         60         60   1.00
60         60
                    Fill         0          0          0   1.00      -64
0          0
                Mass ordinate for TOPSOIL = 60

   11+44.97 EARTH
               Common Exc        15         12         12   1.00
12         12
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
```

```
0          0
                  Fill          6         33         33   1.00      -85
97         97
           TOPSOIL
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0         27         27   1.00
87         87
                  Fill           0          0          0   1.00      -85
0          0
               Mass ordinate for TOPSOIL = 87

   11+50.00 EARTH
               Common Exc       14          3          3   1.00
15         15
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill           6          1          1   1.00      -83
98         98
           TOPSOIL
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
87         87
                  Fill           0          0          0   1.00      -83
0          0
               Mass ordinate for TOPSOIL = 87

   11+51.50 EARTH
               Common Exc       14          1          1   1.00
16         16
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill           7          0          0   1.00      -82
98         98
           TOPSOIL
               Common Exc        0          0          0   1.00
0          0
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       1          0          0   1.00
87         87
```

```
                    Fill          0          0          0   1.00      -82
0          0
               Mass ordinate for TOPSOIL = 87

   12+00.00 EARTH
                Common Exc       16         27         27   1.00
43         43
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         11         16         16   1.00      -71
114        114
               TOPSOIL
                Common Exc        0          0          0   1.00
0          0
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       5          5          5   1.00
92         92
                    Fill          0          0          0   1.00      -71
0          0
               Mass ordinate for TOPSOIL = 92

   12+50.00 EARTH
                Common Exc      166        168        168   1.00
211        211
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         14         23         23   1.00       74
137        137
               TOPSOIL
                Common Exc        0          0          0   1.00
0          0
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       5          9          9   1.00
101        101
                    Fill          0          0          0   1.00       74
0          0
               Mass ordinate for TOPSOIL = 101

   12+61.50 EARTH
                Common Exc      160         69         69   1.00
280        280
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
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```
0          0
                  Fill         18          7          7   1.00      136
144        144
            TOPSOIL
                Common Exc      0          0          0   1.00
0          0
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     6          2          2   1.00
103        103
                  Fill          0          0          0   1.00      136
0          0
                Mass ordinate for TOPSOIL = 103

   13+00.00 EARTH
                Common Exc     159        227        227   1.00
507        507
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill         26         31         31   1.00      332
175        175
            TOPSOIL
                Common Exc      1          1          1   1.00
1          1
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     7          9          9   1.00
112        112
                  Fill          0          0          0   1.00      332
0          0
                Mass ordinate for TOPSOIL = 113

   13+16.50 EARTH
                Common Exc     158         97         97   1.00
604        604
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill         30         17         17   1.00      412
192        192
            TOPSOIL
                Common Exc      1          1          1   1.00
2          2
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     7          4          4   1.00
116        116
```

```
                    Fill          0          0          0   1.00      412
0          0
               Mass ordinate for TOPSOIL = 118

   13+24.54 EARTH
                Common Exc      156         47         47   1.00
651        651
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         31          9          9   1.00      450
201        201
             TOPSOIL
                Common Exc        1          0          0   1.00
2          2
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       8          2          2   1.00
118        118
                    Fill          0          0          0   1.00      450
0          0
               Mass ordinate for TOPSOIL = 120

   13+50.00 EARTH
                Common Exc      147        143        143   1.00
794        794
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         27         27         27   1.00      566
228        228
             TOPSOIL
                Common Exc        1          1          1   1.00
3          3
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       9          8          8   1.00
126        126
                    Fill          0          0          0   1.00      566
0          0
               Mass ordinate for TOPSOIL = 129

   13+97.87 EARTH
                Common Exc      151        264        264   1.00
1058       1058
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
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```
0          0
                  Fill         81         96         96   1.00      734
324        324
            TOPSOIL
                Common Exc      3          4          4   1.00
7          7
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     17         23         23   1.00
149        149
                  Fill          0          0          0   1.00      734
0          0
                Mass ordinate for TOPSOIL = 156

   14+00.00 EARTH
                Common Exc      152        12         12   1.00
1070       1070
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill          79         6          6   1.00      740
330        330
            TOPSOIL
                Common Exc      3          0          0   1.00
7          7
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     17         1          1   1.00
150        150
                  Fill          0          0          0   1.00      740
0          0
                Mass ordinate for TOPSOIL = 157

   14+50.00 EARTH
                Common Exc      176        304        304   1.00
1374       1374
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill          41         111        111   1.00      933
441        441
            TOPSOIL
                Common Exc      7          9          9   1.00
16         16
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     12         27         27   1.00
177        177
```

```
                    Fill          0          0          0   1.00      933
0          0
               Mass ordinate for TOPSOIL = 193

   15+00.00 EARTH
                Common Exc      202        350        350   1.00
1724       1724
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         43         78         78   1.00     1205
519        519
             TOPSOIL
                Common Exc        5         11         11   1.00
27         27
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       10         20         20   1.00
197        197
                    Fill          0          0          0   1.00     1205
0          0
               Mass ordinate for TOPSOIL = 224

   15+44.54 EARTH
                Common Exc      230        356        356   1.00
2080       2080
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         43         71         71   1.00     1490
590        590
             TOPSOIL
                Common Exc       13         15         15   1.00
42         42
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        9         16         16   1.00
213        213
                    Fill          0          0          0   1.00     1490
0          0
               Mass ordinate for TOPSOIL = 255

   15+50.00 EARTH
                Common Exc      232         47         47   1.00
2127       2127
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
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```
0          0
                  Fill         44          9          9   1.00     1528
599        599
            TOPSOIL
                Common Exc       14          3          3   1.00
45         45
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        9          2          2   1.00
215        215
                  Fill          0          0          0   1.00     1528
0          0
               Mass ordinate for TOPSOIL = 260

   16+00.00 EARTH
                Common Exc      239        436        436   1.00
2563       2563
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                  Fill         11         51         51   1.00     1913
650        650
            TOPSOIL
                Common Exc       19         31         31   1.00
76         76
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        9         17         17   1.00
232        232
                  Fill          0          0          0   1.00     1913
0          0
               Mass ordinate for TOPSOIL = 308

   16+17.87 EARTH
                Common Exc      246        161        161   1.00
2724       2724
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                  Fill          9          7          7   1.00     2067
657        657
            TOPSOIL
                Common Exc       20         13         13   1.00
89         89
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        8          6          6   1.00
238        238
```

```
                    Fill          0          0          0   1.00     2067
0          0
               Mass ordinate for TOPSOIL = 327

   16+50.00 EARTH
                Common Exc      259        300        300   1.00
3024       3024
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         48         34         34   1.00     2333
691        691
             TOPSOIL
                Common Exc       18         23         23   1.00
112        112
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       14         13         13   1.00
251        251
                    Fill          0          0          0   1.00     2333
0          0
               Mass ordinate for TOPSOIL = 363

   17+00.00 EARTH
                Common Exc      291        509        509   1.00
3533       3533
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         49         90         90   1.00     2752
781        781
             TOPSOIL
                Common Exc       19         34         34   1.00
146        146
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       14         26         26   1.00
277        277
                    Fill          0          0          0   1.00     2752
0          0
               Mass ordinate for TOPSOIL = 423

   17+50.00 EARTH
                Common Exc      247        498        498   1.00
4031       4031
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill         52         94         94   1.00     3156
875        875
           TOPSOIL
               Common Exc       17         33         33   1.00
179        179
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      15         27         27   1.00
304        304
                  Fill          0          0          0   1.00     3156
0          0
               Mass ordinate for TOPSOIL = 483

   17+85.56 EARTH
               Common Exc      232        315        315   1.00
4346       4346
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         71         81         81   1.00     3390
956        956
           TOPSOIL
               Common Exc       13         20         20   1.00
199        199
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      17         21         21   1.00
325        325
                  Fill          0          0          0   1.00     3390
0          0
               Mass ordinate for TOPSOIL = 524

   18+00.00 EARTH
               Common Exc      223        122        122   1.00
4468       4468
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         82         41         41   1.00     3471
997        997
           TOPSOIL
               Common Exc       10          6          6   1.00
205        205
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      19         10         10   1.00
335        335
```

```
                    Fill          0          0          0   1.00     3471
0          0
               Mass ordinate for TOPSOIL = 540

   18+50.00 EARTH
                Common Exc      225        415        415   1.00
4883       4883
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         57        129        129   1.00     3757
1126       1126
             TOPSOIL
                Common Exc       10         19         19   1.00
224        224
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         33         33   1.00
368        368
                    Fill          0          0          0   1.00     3757
0          0
               Mass ordinate for TOPSOIL = 592

   19+00.00 EARTH
                Common Exc      222        414        414   1.00
5297       5297
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         63        111        111   1.00     4060
1237       1237
             TOPSOIL
                Common Exc        9         18         18   1.00
242        242
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         31         31   1.00
399        399
                    Fill          0          0          0   1.00     4060
0          0
               Mass ordinate for TOPSOIL = 641

   19+50.00 EARTH
                Common Exc      234        422        422   1.00
5719       5719
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

0 0
Fill 48 103 103 1.00 4379
1340 1340
TOPSOIL
Common Exc 9 17 17 1.00
259 259
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 16 31 31 1.00
430 430
Fill 0 0 0 1.00 4379
0 0
Mass ordinate for TOPSOIL = 689

19+67.28 EARTH
Common Exc 238 151 151 1.00
5870 5870
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 0 0 0 1.00
0 0
Fill 48 31 31 1.00 4499
1371 1371
TOPSOIL
Common Exc 9 6 6 1.00
265 265
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 16 10 10 1.00
440 440
Fill 0 0 0 1.00 4499
0 0
Mass ordinate for TOPSOIL = 705

20+00.00 EARTH
Common Exc 234 286 286 1.00
6156 6156
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 0 0 0 1.00
0 0
Fill 33 49 49 1.00 4736
1420 1420
TOPSOIL
Common Exc 8 10 10 1.00
275 275
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 14 18 18 1.00
458 458

```
                    Fill          0          0          0   1.00     4736
0          0
               Mass ordinate for TOPSOIL = 733

   20+50.00 EARTH
                Common Exc      233        432        432   1.00
6588       6588
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         28         56         56   1.00     5112
1476       1476
             TOPSOIL
                Common Exc        8         15         15   1.00
290        290
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc      10         22         22   1.00
480        480
                    Fill          0          0          0   1.00     5112
0          0
               Mass ordinate for TOPSOIL = 770

   20+67.28 EARTH
                Common Exc      232        149        149   1.00
6737       6737
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         19         15         15   1.00     5246
1491       1491
             TOPSOIL
                Common Exc        9          5          5   1.00
295        295
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       8          6          6   1.00
486        486
                    Fill          0          0          0   1.00     5246
0          0
               Mass ordinate for TOPSOIL = 781

   21+00.00 EARTH
                Common Exc      235        283        283   1.00
7020       7020
              Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
```

```
0          0
                  Fill         14          20          20   1.00     5509
1511       1511
            TOPSOIL
                Common Exc      9          11          11   1.00
306        306
              Subgrade Exc      0           0           0   1.00
0          0
               Subsoil Exc      7           9           9   1.00
495        495
                  Fill          0           0           0   1.00     5509
0          0
               Mass ordinate for TOPSOIL = 801

   21+50.00 EARTH
                Common Exc    254         453         453   1.00
7473       7473
              Subgrade Exc      0           0           0   1.00
0          0
               Subsoil Exc      0           0           0   1.00
0          0
                  Fill          4          17          17   1.00     5945
1528       1528
            TOPSOIL
                Common Exc     10          18          18   1.00
324        324
              Subgrade Exc      0           0           0   1.00
0          0
               Subsoil Exc      3           9           9   1.00
504        504
                  Fill          0           0           0   1.00     5945
0          0
               Mass ordinate for TOPSOIL = 828

   22+00.00 EARTH
                Common Exc    259         475         475   1.00
7948       7948
              Subgrade Exc      0           0           0   1.00
0          0
               Subsoil Exc      0           0           0   1.00
0          0
                  Fill          2           6           6   1.00     6414
1534       1534
            TOPSOIL
                Common Exc     12          20          20   1.00
344        344
              Subgrade Exc      0           0           0   1.00
0          0
               Subsoil Exc      2           5           5   1.00
509        509
```

```
                    Fill          0          0          0   1.00     6414
0          0
               Mass ordinate for TOPSOIL = 853

   22+50.00 EARTH
                Common Exc      257        478        478   1.00
8426       8426
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         12         13         13   1.00     6879
1547       1547
               TOPSOIL
                Common Exc        9         19         19   1.00
363        363
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        7          8          8   1.00
517        517
                    Fill          0          0          0   1.00     6879
0          0
               Mass ordinate for TOPSOIL = 880

   23+00.00 EARTH
                Common Exc      268        486        486   1.00
8912       8912
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         11         21         21   1.00     7344
1568       1568
               TOPSOIL
                Common Exc       11         19         19   1.00
382        382
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        9         15         15   1.00
532        532
                    Fill          0          0          0   1.00     7344
0          0
               Mass ordinate for TOPSOIL = 914

   23+50.00 EARTH
                Common Exc      280        507        507   1.00
9419       9419
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill          1         11         11   1.00     7840
1579       1579
            TOPSOIL
                Common Exc       13         22         22   1.00
404        404
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          9          9   1.00
541        541
                  Fill          0          0          0   1.00     7840
0          0
                Mass ordinate for TOPSOIL = 945

   24+00.00 EARTH
                Common Exc      304        541        541   1.00
9960       9960
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                  Fill          0          1          1   1.00     8380
1580       1580
            TOPSOIL
                Common Exc       14         25         25   1.00
429        429
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          1          1   1.00
542        542
                  Fill          0          0          0   1.00     8380
0          0
                Mass ordinate for TOPSOIL = 971

   24+50.00 EARTH
                Common Exc      303        562        562   1.00
10522      10522
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                  Fill          1          1          1   1.00     8941
1581       1581
            TOPSOIL
                Common Exc       14         26         26   1.00
455        455
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          1          1   1.00
543        543
```

```
                    Fill          0          0          0   1.00     8941
0          0
               Mass ordinate for TOPSOIL = 998

   25+00.00 EARTH
                Common Exc      314        571        571   1.00
11093      11093
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill          1          2          2   1.00     9510
1583       1583
            TOPSOIL
                Common Exc       17         29         29   1.00
484        484
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        1          2          2   1.00
545        545
                    Fill          0          0          0   1.00     9510
0          0
               Mass ordinate for TOPSOIL = 1029

   25+50.00 EARTH
                Common Exc      316        583        583   1.00
11676      11676
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill          2          3          3   1.00    10090
1586       1586
            TOPSOIL
                Common Exc       19         33         33   1.00
517        517
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        2          3          3   1.00
548        548
                    Fill          0          0          0   1.00    10090
0          0
               Mass ordinate for TOPSOIL = 1065

   26+00.00 EARTH
                Common Exc      308        578        578   1.00
12254      12254
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill          5          6          6   1.00    10662
1592       1592
            TOPSOIL
                Common Exc       20         36         36   1.00
553        553
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       4          6          6   1.00
554        554
                  Fill          0          0          0   1.00    10662
0          0
                Mass ordinate for TOPSOIL = 1107

   26+50.00 EARTH
                Common Exc      299        562        562   1.00
12816      12816
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                  Fill         12         16         16   1.00    11208
1608       1608
            TOPSOIL
                Common Exc       21         38         38   1.00
591        591
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       6          9          9   1.00
563        563
                  Fill          0          0          0   1.00    11208
0          0
                Mass ordinate for TOPSOIL = 1154

   27+00.00 EARTH
                Common Exc      271        528        528   1.00
13344      13344
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                  Fill          8         19         19   1.00    11717
1627       1627
            TOPSOIL
                Common Exc       22         40         40   1.00
631        631
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       5         10         10   1.00
573        573
```

```
                    Fill          0          0          0   1.00    11717
0          0
               Mass ordinate for TOPSOIL = 1204

   27+50.00 EARTH
                Common Exc      257        489        489   1.00
13833      13833
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         15         21         21   1.00    12185
1648       1648
             TOPSOIL
                Common Exc       20         39         39   1.00
670        670
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        7         11         11   1.00
584        584
                    Fill          0          0          0   1.00    12185
0          0
               Mass ordinate for TOPSOIL = 1254

   28+00.00 EARTH
                Common Exc      255        474        474   1.00
14307      14307
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         24         36         36   1.00    12623
1684       1684
             TOPSOIL
                Common Exc       17         34         34   1.00
704        704
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       10         16         16   1.00
600        600
                    Fill          0          0          0   1.00    12623
0          0
               Mass ordinate for TOPSOIL = 1304

   28+18.93 EARTH
                Common Exc      253        178        178   1.00
14485      14485
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                    Fill         31         19         19   1.00    12782
1703       1703
            TOPSOIL
                Common Exc       16         12         12   1.00
716        716
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc      12          8          8   1.00
608        608
                    Fill          0          0          0   1.00    12782
0          0
                Mass ordinate for TOPSOIL = 1324

   28+50.00 EARTH
                Common Exc      236        281        281   1.00
14766      14766
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         48         45         45   1.00    13018
1748       1748
            TOPSOIL
                Common Exc       13         17         17   1.00
733        733
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc      16         16         16   1.00
624        624
                    Fill          0          0          0   1.00    13018
0          0
                Mass ordinate for TOPSOIL = 1357

   29+00.00 EARTH
                Common Exc      208        411        411   1.00
15177      15177
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill         72        111        111   1.00    13318
1859       1859
            TOPSOIL
                Common Exc       12         23         23   1.00
756        756
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc      19         32         32   1.00
656        656
```

```
                    Fill          0          0          0   1.00    13318
0          0
               Mass ordinate for TOPSOIL = 1412

   29+29.46 EARTH
                Common Exc      196        220        220   1.00
15397      15397
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         67         76         76   1.00    13462
1935       1935
             TOPSOIL
                Common Exc       12         13         13   1.00
769        769
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         20         20   1.00
676        676
                    Fill          0          0          0   1.00    13462
0          0
               Mass ordinate for TOPSOIL = 1445

   29+50.00 EARTH
                Common Exc      195        149        149   1.00
15546      15546
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         56         47         47   1.00    13564
1982       1982
             TOPSOIL
                Common Exc       12          9          9   1.00
778        778
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       16         13         13   1.00
689        689
                    Fill          0          0          0   1.00    13564
0          0
               Mass ordinate for TOPSOIL = 1467

   29+73.67 EARTH
                Common Exc      185        167        167   1.00
15713      15713
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill         62         52         52   1.00    13679
2034       2034
            TOPSOIL
                Common Exc       12         11         11   1.00
789        789
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       16         14         14   1.00
703        703
                  Fill          0          0          0   1.00    13679
0          0
               Mass ordinate for TOPSOIL = 1492

   30+00.00 EARTH
                Common Exc      165        171        171   1.00
15884      15884
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                  Fill         82         70         70   1.00    13780
2104       2104
            TOPSOIL
                Common Exc       12         12         12   1.00
801        801
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         16         16   1.00
719        719
                  Fill          0          0          0   1.00    13780
0          0
               Mass ordinate for TOPSOIL = 1520

   30+50.00 EARTH
                Common Exc      141        283        283   1.00
16167      16167
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                  Fill         70        141        141   1.00    13922
2245       2245
            TOPSOIL
                Common Exc       11         21         21   1.00
822        822
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         31         31   1.00
750        750
```

```
                    Fill          0          0          0   1.00    13922
0          0
               Mass ordinate for TOPSOIL = 1572

   31+00.00 EARTH
                Common Exc      116        238        238   1.00
16405      16405
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         37         99         99   1.00    14061
2344       2344
             TOPSOIL
                Common Exc       10         19         19   1.00
841        841
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       14         29         29   1.00
779        779
                    Fill          0          0          0   1.00    14061
0          0
               Mass ordinate for TOPSOIL = 1620

   31+50.00 EARTH
                Common Exc      105        205        205   1.00
16610      16610
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         34         66         66   1.00    14200
2410       2410
             TOPSOIL
                Common Exc       11         19         19   1.00
860        860
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       14         26         26   1.00
805        805
                    Fill          0          0          0   1.00    14200
0          0
               Mass ordinate for TOPSOIL = 1665

   32+00.00 EARTH
                Common Exc       88        179        179   1.00
16789      16789
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

0 0
Fill 30 59 59 1.00 14320
2469 2469
TOPSOIL
Common Exc 10 19 19 1.00
879 879
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 13 25 25 1.00
830 830
Fill 0 0 0 1.00 14320
0 0
Mass ordinate for TOPSOIL = 1709

32+50.00 EARTH
Common Exc 57 134 134 1.00
16923 16923
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 0 0 0 1.00
0 0
Fill 44 69 69 1.00 14385
2538 2538
TOPSOIL
Common Exc 8 17 17 1.00
896 896
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 16 27 27 1.00
857 857
Fill 0 0 0 1.00 14385
0 0
Mass ordinate for TOPSOIL = 1753

33+00.00 EARTH
Common Exc 46 95 95 1.00
17018 17018
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 0 0 0 1.00
0 0
Fill 57 94 94 1.00 14386
2632 2632
TOPSOIL
Common Exc 8 15 15 1.00
911 911
Subgrade Exc 0 0 0 1.00
0 0
Subsoil Exc 20 33 33 1.00
890 890

```
                    Fill          0          0          0   1.00    14386
0          0
               Mass ordinate for TOPSOIL = 1801

   33+50.00 EARTH
                Common Exc       36         76         76   1.00
17094      17094
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         87        133        133   1.00    14329
2765       2765
             TOPSOIL
                Common Exc        7         14         14   1.00
925        925
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       22         39         39   1.00
929        929
                    Fill          0          0          0   1.00    14329
0          0
               Mass ordinate for TOPSOIL = 1854

   34+00.00 EARTH
                Common Exc       23         55         55   1.00
17149      17149
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         64        140        140   1.00    14244
2905       2905
             TOPSOIL
                Common Exc       11         17         17   1.00
942        942
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       19         38         38   1.00
967        967
                    Fill          0          0          0   1.00    14244
0          0
               Mass ordinate for TOPSOIL = 1909

   34+50.00 EARTH
                Common Exc       20         40         40   1.00
17189      17189
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                    Fill         65        119        119   1.00    14165
3024       3024
            TOPSOIL
                Common Exc       11         20         20   1.00
962        962
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       19         35         35   1.00
1002       1002
                    Fill          0          0          0   1.00    14165
0          0
                Mass ordinate for TOPSOIL = 1964

   35+00.00 EARTH
                Common Exc       16         33         33   1.00
17222      17222
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill         60        116        116   1.00    14082
3140       3140
            TOPSOIL
                Common Exc       11         20         20   1.00
982        982
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       17         33         33   1.00
1035       1035
                    Fill          0          0          0   1.00    14082
0          0
                Mass ordinate for TOPSOIL = 2017

   35+50.00 EARTH
                Common Exc       21         34         34   1.00
17256      17256
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        183        225        225   1.00    13891
3365       3365
            TOPSOIL
                Common Exc       13         22         22   1.00
1004       1004
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       29         43         43   1.00
1078       1078
```

```
                    Fill          0          0          0   1.00    13891
0          0
               Mass ordinate for TOPSOIL = 2082

   36+00.00 EARTH
               Common Exc       23         41         41   1.00
17297      17297
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        138        297        297   1.00    13635
3662       3662
            TOPSOIL
               Common Exc       12         23         23   1.00
1027       1027
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       27         52         52   1.00
1130       1130
                    Fill          0          0          0   1.00    13635
0          0
               Mass ordinate for TOPSOIL = 2157

   36+50.00 EARTH
               Common Exc       58         75         75   1.00
17372      17372
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        156        272        272   1.00    13438
3934       3934
            TOPSOIL
               Common Exc       24         33         33   1.00
1060       1060
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       49         70         70   1.00
1200       1200
                    Fill          0          0          0   1.00    13438
0          0
               Mass ordinate for TOPSOIL = 2260

   37+00.00 EARTH
               Common Exc       53        103        103   1.00
17475      17475
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                    Fill        141        275        275   1.00    13266
4209       4209
            TOPSOIL
                Common Exc       18         39         39   1.00
1099       1099
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       30         73         73   1.00
1273       1273
                    Fill          0          0          0   1.00    13266
0          0
                Mass ordinate for TOPSOIL = 2372

   37+50.00 EARTH
                Common Exc       15         63         63   1.00
17538      17538
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill        114        236        236   1.00    13093
4445       4445
            TOPSOIL
                Common Exc        6         22         22   1.00
1121       1121
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       29         55         55   1.00
1328       1328
                    Fill          0          0          0   1.00    13093
0          0
                Mass ordinate for TOPSOIL = 2449

   38+00.00 EARTH
                Common Exc       10         23         23   1.00
17561      17561
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill        110        207        207   1.00    12909
4652       4652
            TOPSOIL
                Common Exc        4          9          9   1.00
1130       1130
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       30         55         55   1.00
1383       1383
```

```
                    Fill          0          0          0   1.00    12909
0          0
               Mass ordinate for TOPSOIL = 2513

   38+50.00 EARTH
                Common Exc       24         31         31   1.00
17592      17592
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        134        226        226   1.00    12714
4878       4878
             TOPSOIL
                Common Exc        4          7          7   1.00
1137       1137
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       31         56         56   1.00
1439       1439
                    Fill          0          0          0   1.00    12714
0          0
               Mass ordinate for TOPSOIL = 2576

   39+00.00 EARTH
                Common Exc       33         53         53   1.00
17645      17645
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        195        305        305   1.00    12462
5183       5183
             TOPSOIL
                Common Exc        2          6          6   1.00
1143       1143
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       34         60         60   1.00
1499       1499
                    Fill          0          0          0   1.00    12462
0          0
               Mass ordinate for TOPSOIL = 2642

   39+50.00 EARTH
                Common Exc       39         67         67   1.00
17712      17712
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                    Fill        209        374        374   1.00    12155
5557       5557
            TOPSOIL
                Common Exc        2          4          4   1.00
1147       1147
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       36         65         65   1.00
1564       1564
                    Fill          0          0          0   1.00    12155
0          0
                Mass ordinate for TOPSOIL = 2711

   39+74.57 EARTH
                Common Exc        47         39         39   1.00
17751      17751
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill        197        185        185   1.00    12009
5742       5742
            TOPSOIL
                Common Exc        3          2          2   1.00
1149       1149
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       34         32         32   1.00
1596       1596
                    Fill          0          0          0   1.00    12009
0          0
                Mass ordinate for TOPSOIL = 2745

   40+00.00 EARTH
                Common Exc        54         48         48   1.00
17799      17799
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       0          0          0   1.00
0          0
                    Fill        250        211        211   1.00    11846
5953       5953
            TOPSOIL
                Common Exc        2          2          2   1.00
1151       1151
               Subgrade Exc       0          0          0   1.00
0          0
                Subsoil Exc       35         32         32   1.00
1628       1628
```

```
                    Fill          0          0          0   1.00    11846
0          0
               Mass ordinate for TOPSOIL = 2779

   40+34.57 EARTH
                Common Exc       60         73         73   1.00
17872      17872
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        236        311        311   1.00    11608
6264       6264
             TOPSOIL
                Common Exc        2          3          3   1.00
1154       1154
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       31         42         42   1.00
1670       1670
                    Fill          0          0          0   1.00    11608
0          0
               Mass ordinate for TOPSOIL = 2824

   40+50.00 EARTH
                Common Exc       62         35         35   1.00
17907      17907
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        208        127        127   1.00    11516
6391       6391
             TOPSOIL
                Common Exc        3          1          1   1.00
1155       1155
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       27         17         17   1.00
1687       1687
                    Fill          0          0          0   1.00    11516
0          0
               Mass ordinate for TOPSOIL = 2842

   41+00.00 EARTH
                Common Exc       67        119        119   1.00
18026      18026
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        209        386        386   1.00    11249
6777       6777
            TOPSOIL
                Common Exc      3          6          6   1.00
1161       1161
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     27         50         50   1.00
1737       1737
                  Fill          0          0          0   1.00    11249
0          0
               Mass ordinate for TOPSOIL = 2898

   41+50.00 EARTH
                Common Exc     75        131        131   1.00
18157      18157
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        213        391        391   1.00    10989
7168       7168
            TOPSOIL
                Common Exc      3          6          6   1.00
1167       1167
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     25         48         48   1.00
1785       1785
                  Fill          0          0          0   1.00    10989
0          0
               Mass ordinate for TOPSOIL = 2952

   41+84.57 EARTH
                Common Exc     84        102        102   1.00
18259      18259
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        196        262        262   1.00    10829
7430       7430
            TOPSOIL
                Common Exc      3          4          4   1.00
1171       1171
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     24         31         31   1.00
1816       1816
```

```
                    Fill          0          0          0   1.00    10829
0          0
               Mass ordinate for TOPSOIL = 2987

   42+00.00 EARTH
               Common Exc       87         49         49   1.00
18308      18308
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        192        111        111   1.00    10767
7541       7541
            TOPSOIL
               Common Exc       3          2          2   1.00
1173       1173
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      24         14         14   1.00
1830       1830
                    Fill          0          0          0   1.00    10767
0          0
               Mass ordinate for TOPSOIL = 3003

   42+50.00 EARTH
               Common Exc       95        169        169   1.00
18477      18477
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        173        338        338   1.00    10598
7879       7879
            TOPSOIL
               Common Exc       2          5          5   1.00
1178       1178
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      23         44         44   1.00
1874       1874
                    Fill          0          0          0   1.00    10598
0          0
               Mass ordinate for TOPSOIL = 3052

   42+59.57 EARTH
               Common Exc       96         34         34   1.00
18511      18511
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
```

```
0          0
                    Fill        162          59          59   1.00    10573
7938       7938
            TOPSOIL
                Common Exc        3           1           1   1.00
1179       1179
               Subgrade Exc       0           0           0   1.00
0          0
                Subsoil Exc       22          8           8   1.00
1882       1882
                    Fill          0           0           0   1.00    10573
0          0
                Mass ordinate for TOPSOIL = 3061

   43+00.00 EARTH
                Common Exc        96         144         144   1.00
18655      18655
               Subgrade Exc       0           0           0   1.00
0          0
                Subsoil Exc       0           0           0   1.00
0          0
                    Fill        163         243         243   1.00    10474
8181       8181
            TOPSOIL
                Common Exc        3           4           4   1.00
1183       1183
               Subgrade Exc       0           0           0   1.00
0          0
                Subsoil Exc       21          32          32   1.00
1914       1914
                    Fill          0           0           0   1.00    10474
0          0
                Mass ordinate for TOPSOIL = 3097

   43+50.00 EARTH
                Common Exc        93         175         175   1.00
18830      18830
               Subgrade Exc       0           0           0   1.00
0          0
                Subsoil Exc       0           0           0   1.00
0          0
                    Fill        166         305         305   1.00    10344
8486       8486
            TOPSOIL
                Common Exc        3           6           6   1.00
1189       1189
               Subgrade Exc       0           0           0   1.00
0          0
                Subsoil Exc       20          38          38   1.00
1952       1952
```

```
                    Fill          0          0          0   1.00    10344
0          0
               Mass ordinate for TOPSOIL = 3141

   44+00.00 EARTH
                Common Exc       74        155        155   1.00
18985      18985
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill       144        287        287   1.00    10212
8773       8773
             TOPSOIL
                Common Exc        3          6          6   1.00
1195       1195
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       19         36         36   1.00
1988       1988
                    Fill          0          0          0   1.00    10212
0          0
               Mass ordinate for TOPSOIL = 3183

   44+16.90 EARTH
                Common Exc       73         46         46   1.00
19031      19031
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill       146         91         91   1.00    10167
8864       8864
             TOPSOIL
                Common Exc        3          2          2   1.00
1197       1197
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       19         12         12   1.00
2000       2000
                    Fill          0          0          0   1.00    10167
0          0
               Mass ordinate for TOPSOIL = 3197

   44+29.67 EARTH
                Common Exc       72         34         34   1.00
19065      19065
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        151         70         70   1.00    10131
8934       8934
            TOPSOIL
                Common Exc      3          1          1   1.00
1198       1198
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     20         9          9   1.00
2009       2009
                  Fill          0          0          0   1.00    10131
0          0
                Mass ordinate for TOPSOIL = 3207

   44+50.00 EARTH
                Common Exc      69         53         53   1.00
19118      19118
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill        160        117        117   1.00    10067
9051       9051
            TOPSOIL
                Common Exc      2          2          2   1.00
1200       1200
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     20         15         15   1.00
2024       2024
                  Fill          0          0          0   1.00    10067
0          0
                Mass ordinate for TOPSOIL = 3224

   45+00.00 EARTH
                Common Exc      63        122        122   1.00
19240      19240
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     0          0          0   1.00
0          0
                  Fill        153        290        290   1.00     9899
9341       9341
            TOPSOIL
                Common Exc      3          5          5   1.00
1205       1205
               Subgrade Exc     0          0          0   1.00
0          0
                Subsoil Exc     16         33         33   1.00
2057       2057
```

```
                    Fill          0          0          0   1.00     9899
0          0
               Mass ordinate for TOPSOIL = 3262

   45+50.00 EARTH
                Common Exc       74        127        127   1.00
19367      19367
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        146        277        277   1.00     9749
9618       9618
             TOPSOIL
                Common Exc        2          5          5   1.00
1210       1210
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       21         34         34   1.00
2091       2091
                    Fill          0          0          0   1.00     9749
0          0
               Mass ordinate for TOPSOIL = 3301

   46+00.00 EARTH
                Common Exc       48        113        113   1.00
19480      19480
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        169        292        292   1.00     9570
9910       9910
             TOPSOIL
                Common Exc        2          4          4   1.00
1214       1214
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       20         38         38   1.00
2129       2129
                    Fill          0          0          0   1.00     9570
0          0
               Mass ordinate for TOPSOIL = 3343

   46+31.90 EARTH
                Common Exc       38         51         51   1.00
19531      19531
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        273        261        261   1.00     9360
10171      10171
            TOPSOIL
                Common Exc      2          2          2   1.00
1216       1216
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     34         32         32   1.00
2161       2161
                  Fill          0          0          0   1.00     9360
0          0
               Mass ordinate for TOPSOIL = 3377

   46+50.00 EARTH
                Common Exc     33         24         24   1.00
19555      19555
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        285        187        187   1.00     9197
10358      10358
            TOPSOIL
                Common Exc      2          1          1   1.00
1217       1217
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     35         23         23   1.00
2184       2184
                  Fill          0          0          0   1.00     9197
0          0
               Mass ordinate for TOPSOIL = 3401

   47+00.00 EARTH
                Common Exc     18         47         47   1.00
19602      19602
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        313        554        554   1.00     8690
10912      10912
            TOPSOIL
                Common Exc      1          3          3   1.00
1220       1220
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     38         68         68   1.00
2252       2252
```

```
                    Fill          0          0          0   1.00     8690
0          0
               Mass ordinate for TOPSOIL = 3472

   47+50.00 EARTH
                Common Exc       12         28         28   1.00
19630      19630
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        360        623        623   1.00     8095
11535      11535
             TOPSOIL
                Common Exc        1          2          2   1.00
1222       1222
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       39         71         71   1.00
2323       2323
                    Fill          0          0          0   1.00     8095
0          0
               Mass ordinate for TOPSOIL = 3545

   48+00.00 EARTH
                Common Exc       10         20         20   1.00
19650      19650
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        362        669        669   1.00     7446
12204      12204
             TOPSOIL
                Common Exc        0          1          1   1.00
1223       1223
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       40         73         73   1.00
2396       2396
                    Fill          0          0          0   1.00     7446
0          0
               Mass ordinate for TOPSOIL = 3619

   48+50.00 EARTH
                Common Exc       10         19         19   1.00
19669      19669
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        474        774        774   1.00     6691
12978      12978
            TOPSOIL
                Common Exc      0          0          0   1.00
1223       1223
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     46         80         80   1.00
2476       2476
                  Fill          0          0          0   1.00     6691
0          0
               Mass ordinate for TOPSOIL = 3699

   49+00.00 EARTH
                Common Exc     13         21         21   1.00
19690      19690
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        462        867        867   1.00     5845
13845      13845
            TOPSOIL
                Common Exc      0          0          0   1.00
1223       1223
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     47         86         86   1.00
2562       2562
                  Fill          0          0          0   1.00     5845
0          0
               Mass ordinate for TOPSOIL = 3785

   49+50.00 EARTH
                Common Exc     17         28         28   1.00
19718      19718
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        469        862        862   1.00     5011
14707      14707
            TOPSOIL
                Common Exc      0          0          0   1.00
1223       1223
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     48         88         88   1.00
2650       2650
```

```
                    Fill          0          0          0   1.00     5011
0          0
               Mass ordinate for TOPSOIL = 3873

   50+00.00 EARTH
               Common Exc       22         36         36   1.00
19754      19754
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        485        883        883   1.00     4164
15590      15590
            TOPSOIL
               Common Exc       0          0          0   1.00
1223       1223
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       50         91         91   1.00
2741       2741
                    Fill          0          0          0   1.00     4164
0          0
               Mass ordinate for TOPSOIL = 3964

   50+44.12 EARTH
               Common Exc       26         39         39   1.00
19793      19793
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        494        800        800   1.00     3403
16390      16390
            TOPSOIL
               Common Exc       1          1          1   1.00
1224       1224
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       52         83         83   1.00
2824       2824
                    Fill          0          0          0   1.00     3403
0          0
               Mass ordinate for TOPSOIL = 4048

   50+50.00 EARTH
               Common Exc       26          6          6   1.00
19799      19799
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
```

```
0          0
                  Fill        494        108        108   1.00     3301
16498      16498
            TOPSOIL
                Common Exc      1          0          0   1.00
1224       1224
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     52         11         11   1.00
2835       2835
                  Fill          0          0          0   1.00     3301
0          0
               Mass ordinate for TOPSOIL = 4059

   51+00.00 EARTH
                Common Exc     28         50         50   1.00
19849      19849
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        414        841        841   1.00     2510
17339      17339
            TOPSOIL
                Common Exc      1          2          2   1.00
1226       1226
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     43         88         88   1.00
2923       2923
                  Fill          0          0          0   1.00     2510
0          0
               Mass ordinate for TOPSOIL = 4149

   51+50.00 EARTH
                Common Exc     36         59         59   1.00
19908      19908
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        419        771        771   1.00     1798
18110      18110
            TOPSOIL
                Common Exc      2          3          3   1.00
1229       1229
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     43         80         80   1.00
3003       3003
```

```
                    Fill          0          0          0   1.00     1798
0          0
               Mass ordinate for TOPSOIL = 4232

   52+00.00 EARTH
                Common Exc       45         75         75   1.00
19983      19983
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        307        672        672   1.00     1201
18782      18782
             TOPSOIL
                Common Exc        2          4          4   1.00
1233       1233
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       40         77         77   1.00
3080       3080
                    Fill          0          0          0   1.00     1201
0          0
               Mass ordinate for TOPSOIL = 4313

   52+50.00 EARTH
                Common Exc       42         81         81   1.00
20064      20064
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        336        595        595   1.00      687
19377      19377
             TOPSOIL
                Common Exc        2          4          4   1.00
1237       1237
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       41         75         75   1.00
3155       3155
                    Fill          0          0          0   1.00      687
0          0
               Mass ordinate for TOPSOIL = 4392

   52+59.12 EARTH
                Common Exc       41         14         14   1.00
20078      20078
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        350        116        116   1.00      585
19493      19493
            TOPSOIL
                Common Exc      2          1          1   1.00
1238       1238
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     41         14         14   1.00
3169       3169
                  Fill          0          0          0   1.00      585
0          0
               Mass ordinate for TOPSOIL = 4407

   53+00.00 EARTH
                Common Exc     32         55         55   1.00
20133      20133
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        450        606        606   1.00       34
20099      20099
            TOPSOIL
                Common Exc      2          3          3   1.00
1241       1241
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     43         64         64   1.00
3233       3233
                  Fill          0          0          0   1.00       34
0          0
               Mass ordinate for TOPSOIL = 4474

   53+50.00 EARTH
                Common Exc     16         44         44   1.00
20177      20177
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        478        859        859   1.00     -781
20958      20958
            TOPSOIL
                Common Exc      1          3          3   1.00
1244       1244
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     46         82         82   1.00
3315       3315
```

```
                    Fill          0          0          0   1.00     -781
0          0
               Mass ordinate for TOPSOIL = 4559

   54+00.00 EARTH
                Common Exc        6         20         20   1.00
20197      20197
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        520        924        924   1.00    -1685
21882      21882
             TOPSOIL
                Common Exc        1          2          2   1.00
1246       1246
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       51         90         90   1.00
3405       3405
                    Fill          0          0          0   1.00    -1685
0          0
               Mass ordinate for TOPSOIL = 4651

   54+50.00 EARTH
                Common Exc        1          6          6   1.00
20203      20203
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        707       1136       1136   1.00    -2815
23018      23018
             TOPSOIL
                Common Exc        0          1          1   1.00
1247       1247
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       57        100        100   1.00
3505       3505
                    Fill          0          0          0   1.00    -2815
0          0
               Mass ordinate for TOPSOIL = 4752

   59+00.00 EARTH
                Common Exc        5         50         50   1.00
20253      20253
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        366       8942       8942   1.00   -11707
31960      31960
            TOPSOIL
                Common Exc        1          8          8   1.00
1255       1255
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       39        800        800   1.00
4305       4305
                  Fill          0          0          0   1.00   -11707
0          0
                Mass ordinate for TOPSOIL = 5560

   59+50.00 EARTH
                Common Exc       10         14         14   1.00
20267      20267
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                  Fill        338        652        652   1.00   -12345
32612      32612
            TOPSOIL
                Common Exc        2          3          3   1.00
1258       1258
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         69         69   1.00
4374       4374
                  Fill          0          0          0   1.00   -12345
0          0
                Mass ordinate for TOPSOIL = 5632

   60+00.00 EARTH
                Common Exc       16         24         24   1.00
20291      20291
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                  Fill        319        608        608   1.00   -12929
33220      33220
            TOPSOIL
                Common Exc        1          3          3   1.00
1261       1261
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         67         67   1.00
4441       4441
```

```
                    Fill          0          0          0   1.00   -12929
0          0
               Mass ordinate for TOPSOIL = 5702

   60+50.00 EARTH
                Common Exc       30         43         43   1.00
20334      20334
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        321        593        593   1.00   -13479
33813      33813
             TOPSOIL
                Common Exc        2          3          3   1.00
1264       1264
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       35         66         66   1.00
4507       4507
                    Fill          0          0          0   1.00   -13479
0          0
               Mass ordinate for TOPSOIL = 5771

   61+00.00 EARTH
                Common Exc       36         61         61   1.00
20395      20395
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
0          0
                    Fill        307        581        581   1.00   -13999
34394      34394
             TOPSOIL
                Common Exc        2          4          4   1.00
1268       1268
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc       34         64         64   1.00
4571       4571
                    Fill          0          0          0   1.00   -13999
0          0
               Mass ordinate for TOPSOIL = 5839

   61+50.00 EARTH
                Common Exc       42         72         72   1.00
20467      20467
              Subgrade Exc        0          0          0   1.00
0          0
               Subsoil Exc        0          0          0   1.00
```

```
0          0
                  Fill        322        582        582   1.00   -14509
34976      34976
            TOPSOIL
                Common Exc      2          4          4   1.00
1272       1272
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     34         63         63   1.00
4634       4634
                  Fill          0          0          0   1.00   -14509
0          0
               Mass ordinate for TOPSOIL = 5906

   62+00.00 EARTH
                Common Exc     48         83         83   1.00
20550      20550
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        545        803        803   1.00   -15229
35779      35779
            TOPSOIL
                Common Exc      3          5          5   1.00
1277       1277
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     55         82         82   1.00
4716       4716
                  Fill          0          0          0   1.00   -15229
0          0
               Mass ordinate for TOPSOIL = 5993

   62+50.00 EARTH
                Common Exc     48         89         89   1.00
20639      20639
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        546       1010       1010   1.00   -16150
36789      36789
            TOPSOIL
                Common Exc      3          6          6   1.00
1283       1283
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     55        102        102   1.00
4818       4818
```

```
                    Fill          0          0          0   1.00   -16150
0          0
               Mass ordinate for TOPSOIL = 6101

   63+00.00 EARTH
               Common Exc       50         91         91   1.00
20730      20730
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        540       1006       1006   1.00   -17065
37795      37795
            TOPSOIL
               Common Exc       3          6          6   1.00
1289       1289
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      55        102        102   1.00
4920       4920
                    Fill          0          0          0   1.00   -17065
0          0
               Mass ordinate for TOPSOIL = 6209

   63+50.00 EARTH
               Common Exc       48         91         91   1.00
20821      20821
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                    Fill        580       1037       1037   1.00   -18011
38832      38832
            TOPSOIL
               Common Exc       3          6          6   1.00
1295       1295
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      57        104        104   1.00
5024       5024
                    Fill          0          0          0   1.00   -18011
0          0
               Mass ordinate for TOPSOIL = 6319

   64+00.00 EARTH
               Common Exc       43         84         84   1.00
20905      20905
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
```

```
0          0
                  Fill        443        947        947   1.00   -18874
39779      39779
            TOPSOIL
                Common Exc      3          6          6   1.00
1301       1301
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     45         94         94   1.00
5118       5118
                  Fill          0          0          0   1.00   -18874
0          0
               Mass ordinate for TOPSOIL = 6419

   64+50.00 EARTH
                Common Exc     35         72         72   1.00
20977      20977
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        463        839        839   1.00   -19641
40618      40618
            TOPSOIL
                Common Exc      2          5          5   1.00
1306       1306
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     47         85         85   1.00
5203       5203
                  Fill          0          0          0   1.00   -19641
0          0
               Mass ordinate for TOPSOIL = 6509

REGION = 2
   65+00.00 EARTH
                Common Exc     41         68         68   1.00
21045      21045
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc      0          0          0   1.00
0          0
                  Fill        462        831        831   1.00   -20404
41449      41449
            TOPSOIL
                Common Exc      5          6          6   1.00
1312       1312
              Subgrade Exc      0          0          0   1.00
0          0
               Subsoil Exc     47         84         84   1.00
```

```
5287       5287
                Fill          0          0          0   1.00   -20404
0          0
          Mass ordinate for TOPSOIL = 6599

   65+50.00 EARTH
               Common Exc       30         66         66   1.00
21111      21111
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        458        852        852   1.00   -21190
42301      42301
             TOPSOIL
               Common Exc        2          6          6   1.00
1318       1318
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       46         86         86   1.00
5373       5373
                Fill          0          0          0   1.00   -21190
0          0
          Mass ordinate for TOPSOIL = 6691

   66+00.00 EARTH
               Common Exc       22         48         48   1.00
21159      21159
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        480        869        869   1.00   -22011
43170      43170
             TOPSOIL
               Common Exc        1          3          3   1.00
1321       1321
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       47         86         86   1.00
5459       5459
                Fill          0          0          0   1.00   -22011
0          0
          Mass ordinate for TOPSOIL = 6780

   66+06.00 EARTH
               Common Exc       21          5          5   1.00
21164      21164
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        481        107        107   1.00   -22113
43277      43277
             TOPSOIL
                 Common Exc        1          0          0   1.00
1321       1321
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       47         10         10   1.00
5469       5469
                     Fill          0          0          0   1.00   -22113
0          0
                 Mass ordinate for TOPSOIL = 6790

   66+50.00 EARTH
                 Common Exc       10         25         25   1.00
21189      21189
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        570        856        856   1.00   -22944
44133      44133
             TOPSOIL
                 Common Exc        0          1          1   1.00
1322       1322
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       52         81         81   1.00
5550       5550
                     Fill          0          0          0   1.00   -22944
0          0
                 Mass ordinate for TOPSOIL = 6872

   67+00.00 EARTH
                 Common Exc        2         11         11   1.00
21200      21200
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        650       1130       1130   1.00   -24063
45263      45263
             TOPSOIL
                 Common Exc        0          0          0   1.00
1322       1322
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       54         98         98   1.00
```

```
5648       5648
                Fill          0          0          0   1.00   -24063
0          0
     Mass ordinate for TOPSOIL = 6970

   67+50.00 EARTH
               Common Exc        2          4          4   1.00
21204      21204
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        655       1208       1208   1.00   -25267
46471      46471
             TOPSOIL
               Common Exc        0          0          0   1.00
1322       1322
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       53         99         99   1.00
5747       5747
                Fill          0          0          0   1.00   -25267
0          0
     Mass ordinate for TOPSOIL = 7069

   68+00.00 EARTH
               Common Exc        6          7          7   1.00
21211      21211
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        595       1157       1157   1.00   -26417
47628      47628
             TOPSOIL
               Common Exc        0          0          0   1.00
1322       1322
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       53         98         98   1.00
5845       5845
                Fill          0          0          0   1.00   -26417
0          0
     Mass ordinate for TOPSOIL = 7167

   68+50.00 EARTH
               Common Exc       16         20         20   1.00
21231      21231
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        515       1028       1028   1.00   -27425
48656      48656
             TOPSOIL
                Common Exc        5          5          5   1.00
1327       1327
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       49         94         94   1.00
5939       5939
                     Fill          0          0          0   1.00   -27425
0          0
                Mass ordinate for TOPSOIL = 7266

   69+00.00 EARTH
                Common Exc       25         38         38   1.00
21269      21269
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        383        831        831   1.00   -28218
49487      49487
             TOPSOIL
                Common Exc        6         10         10   1.00
1337       1337
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       45         87         87   1.00
6026       6026
                     Fill          0          0          0   1.00   -28218
0          0
                Mass ordinate for TOPSOIL = 7363

   69+00.98 EARTH
                Common Exc       24          1          1   1.00
21270      21270
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        384         14         14   1.00   -28231
49501      49501
             TOPSOIL
                Common Exc        6          0          0   1.00
1337       1337
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       45          2          2   1.00
```

```
6028       6028
                Fill          0          0          0   1.00   -28231
0          0
          Mass ordinate for TOPSOIL = 7365

   69+50.00 EARTH
               Common Exc       31         50         50   1.00
21320      21320
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           357        673        673   1.00   -28854
50174      50174
             TOPSOIL
               Common Exc        2          7          7   1.00
1344       1344
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       41         78         78   1.00
6106       6106
                Fill           0          0          0   1.00   -28854
0          0
          Mass ordinate for TOPSOIL = 7450

   70+00.00 EARTH
               Common Exc       43         69         69   1.00
21389      21389
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           233        546        546   1.00   -29331
50720      50720
             TOPSOIL
               Common Exc        4          6          6   1.00
1350       1350
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       35         70         70   1.00
6176       6176
                Fill           0          0          0   1.00   -29331
0          0
          Mass ordinate for TOPSOIL = 7526

   70+50.00 EARTH
               Common Exc       91        124        124   1.00
21513      21513
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         58        269        269   1.00   -29476
50989      50989
             TOPSOIL
                 Common Exc       14         17         17   1.00
1367       1367
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         49         49   1.00
6225       6225
                     Fill          0          0          0   1.00   -29476
0          0
                 Mass ordinate for TOPSOIL = 7592

   71+00.00 EARTH
                 Common Exc      108        184        184   1.00
21697      21697
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          4         57         57   1.00   -29349
51046      51046
             TOPSOIL
                 Common Exc        5         18         18   1.00
1385       1385
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0         17         17   1.00
6242       6242
                     Fill          0          0          0   1.00   -29349
0          0
                 Mass ordinate for TOPSOIL = 7627

   71+50.00 EARTH
                 Common Exc      101        194        194   1.00
21891      21891
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         27         29         29   1.00   -29184
51075      51075
             TOPSOIL
                 Common Exc       13         17         17   1.00
1402       1402
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         14         14   1.00
```

```
6256       6256
                Fill          0          0          0   1.00   -29184
0          0
          Mass ordinate for TOPSOIL = 7658

   72+00.00 EARTH
               Common Exc      107        193        193   1.00
22084      22084
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         30         53         53   1.00   -29044
51128      51128
             TOPSOIL
               Common Exc        8         19         19   1.00
1421       1421
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         27         27   1.00
6283       6283
                Fill          0          0          0   1.00   -29044
0          0
          Mass ordinate for TOPSOIL = 7704

   72+21.00 EARTH
               Common Exc      113         86         86   1.00
22170      22170
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         30         23         23   1.00   -28981
51151      51151
             TOPSOIL
               Common Exc        7          6          6   1.00
1427       1427
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         11         11   1.00
6294       6294
                Fill          0          0          0   1.00   -28981
0          0
          Mass ordinate for TOPSOIL = 7721

   72+50.00 EARTH
               Common Exc      118        124        124   1.00
22294      22294
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         21         27         27   1.00   -28884
51178      51178
             TOPSOIL
                 Common Exc       14         11         11   1.00
1438       1438
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         12         12   1.00
6306       6306
                     Fill          0          0          0   1.00   -28884
0          0
                 Mass ordinate for TOPSOIL = 7744

   72+57.70 EARTH
                 Common Exc      119         34         34   1.00
22328      22328
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         20          6          6   1.00   -28856
51184      51184
             TOPSOIL
                 Common Exc       15          4          4   1.00
1442       1442
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9          3          3   1.00
6309       6309
                     Fill          0          0          0   1.00   -28856
0          0
                 Mass ordinate for TOPSOIL = 7751

   72+86.50 EARTH
                 Common Exc      134        135        135   1.00
22463      22463
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         16         19         19   1.00   -28740
51203      51203
             TOPSOIL
                 Common Exc       18         18         18   1.00
1460       1460
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7          9          9   1.00
```

```
6318       6318
                Fill          0          0          0   1.00   -28740
0          0
          Mass ordinate for TOPSOIL = 7778

   73+00.00 EARTH
               Common Exc      160         73         73   1.00
22536      22536
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         15          8          8   1.00   -28675
51211      51211
             TOPSOIL
               Common Exc       22         10         10   1.00
1470       1470
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          3          3   1.00
6321       6321
                Fill          0          0          0   1.00   -28675
0          0
          Mass ordinate for TOPSOIL = 7791

   73+50.00 EARTH
               Common Exc      262        391        391   1.00
22927      22927
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         20         32         32   1.00   -28316
51243      51243
             TOPSOIL
               Common Exc       26         44         44   1.00
1514       1514
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6         11         11   1.00
6332       6332
                Fill          0          0          0   1.00   -28316
0          0
          Mass ordinate for TOPSOIL = 7846

   74+00.00 EARTH
               Common Exc      272        494        494   1.00
23421      23421
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         21         38         38   1.00   -27860
51281      51281
             TOPSOIL
                 Common Exc       25         47         47   1.00
1561       1561
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6         11         11   1.00
6343       6343
                     Fill          0          0          0   1.00   -27860
0          0
                 Mass ordinate for TOPSOIL = 7904

   74+50.00 EARTH
                 Common Exc      259        492        492   1.00
23913      23913
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         24         42         42   1.00   -27410
51323      51323
             TOPSOIL
                 Common Exc       23         44         44   1.00
1605       1605
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7         12         12   1.00
6355       6355
                     Fill          0          0          0   1.00   -27410
0          0
                 Mass ordinate for TOPSOIL = 7960

   75+00.00 EARTH
                 Common Exc      224        447        447   1.00
24360      24360
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         23         44         44   1.00   -27007
51367      51367
             TOPSOIL
                 Common Exc       21         41         41   1.00
1646       1646
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7         13         13   1.00
```

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6368       6368
                Fill          0          0          0   1.00   -27007
0          0
          Mass ordinate for TOPSOIL = 8014

   75+50.00 EARTH
               Common Exc      165        360        360   1.00
24720      24720
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         15         35         35   1.00   -26682
51402      51402
             TOPSOIL
               Common Exc        7         26         26   1.00
1672       1672
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          6          6   1.00
6374       6374
                Fill          0          0          0   1.00   -26682
0          0
          Mass ordinate for TOPSOIL = 8046

   76+00.00 EARTH
               Common Exc      210        347        347   1.00
25067      25067
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         21         33         33   1.00   -26368
51435      51435
             TOPSOIL
               Common Exc       26         31         31   1.00
1703       1703
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          6          6   1.00
6380       6380
                Fill          0          0          0   1.00   -26368
0          0
          Mass ordinate for TOPSOIL = 8083

   76+43.22 EARTH
               Common Exc      114        259        259   1.00
25326      25326
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         40         49         49   1.00   -26158
51484      51484
             TOPSOIL
                 Common Exc        6         26         26   1.00
1729       1729
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         17         17   1.00
6397       6397
                     Fill          0          0          0   1.00   -26158
0          0
                 Mass ordinate for TOPSOIL = 8126

   76+50.00 EARTH
                 Common Exc       87         25         25   1.00
25351      25351
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         42         10         10   1.00   -26143
51494      51494
             TOPSOIL
                 Common Exc       33          5          5   1.00
1734       1734
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15          4          4   1.00
6401       6401
                     Fill          0          0          0   1.00   -26143
0          0
                 Mass ordinate for TOPSOIL = 8135

   77+00.00 EARTH
                 Common Exc      118        190        190   1.00
25541      25541
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         56         91         91   1.00   -26044
51585      51585
             TOPSOIL
                 Common Exc        6         36         36   1.00
1770       1770
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       17         30         30   1.00
```

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6431       6431
                  Fill          0          0          0   1.00   -26044
0          0
               Mass ordinate for TOPSOIL = 8201

   77+50.00 EARTH
               Common Exc      110        211        211   1.00
25752      25752
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         176        215        215   1.00   -26048
51800      51800
             TOPSOIL
               Common Exc        4          9          9   1.00
1779       1779
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      24         38         38   1.00
6469       6469
                  Fill          0          0          0   1.00   -26048
0          0
               Mass ordinate for TOPSOIL = 8248

   78+00.00 EARTH
               Common Exc      105        199        199   1.00
25951      25951
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         149        301        301   1.00   -26150
52101      52101
             TOPSOIL
               Common Exc        6          9          9   1.00
1788       1788
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      26         46         46   1.00
6515       6515
                  Fill          0          0          0   1.00   -26150
0          0
               Mass ordinate for TOPSOIL = 8303

   78+50.00 EARTH
               Common Exc      129        217        217   1.00
26168      26168
              Subgrade Exc       0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        102        232        232   1.00   -26165
52333      52333
             TOPSOIL
                 Common Exc       12         17         17   1.00
1805       1805
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       17         40         40   1.00
6555       6555
                     Fill          0          0          0   1.00   -26165
0          0
                 Mass ordinate for TOPSOIL = 8360

   79+00.00 EARTH
                 Common Exc      128        238        238   1.00
26406      26406
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         93        181        181   1.00   -26108
52514      52514
             TOPSOIL
                 Common Exc       11         21         21   1.00
1826       1826
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         31         31   1.00
6586       6586
                     Fill          0          0          0   1.00   -26108
0          0
                 Mass ordinate for TOPSOIL = 8412

   79+50.00 EARTH
                 Common Exc      127        236        236   1.00
26642      26642
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        105        183        183   1.00   -26055
52697      52697
             TOPSOIL
                 Common Exc       18         27         27   1.00
1853       1853
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       20         33         33   1.00
```

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6619       6619
                Fill          0          0          0   1.00   -26055
0          0
          Mass ordinate for TOPSOIL = 8472

   79+71.41 EARTH
               Common Exc      111         94         94   1.00
26736      26736
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        113         86         86   1.00   -26047
52783      52783
             TOPSOIL
               Common Exc       11         11         11   1.00
1864       1864
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         18         18   1.00
6637       6637
                Fill          0          0          0   1.00   -26047
0          0
          Mass ordinate for TOPSOIL = 8501

   80+00.00 EARTH
               Common Exc      109        116        116   1.00
26852      26852
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        125        126        126   1.00   -26057
52909      52909
             TOPSOIL
               Common Exc       11         12         12   1.00
1876       1876
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         26         26   1.00
6663       6663
                Fill          0          0          0   1.00   -26057
0          0
          Mass ordinate for TOPSOIL = 8539

   80+50.00 EARTH
               Common Exc       95        189        189   1.00
27041      27041
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        158        262        262   1.00   -26130
53171      53171
             TOPSOIL
                 Common Exc        8         18         18   1.00
1894       1894
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       32         53         53   1.00
6716       6716
                     Fill          0          0          0   1.00   -26130
0          0
                 Mass ordinate for TOPSOIL = 8610

   81+00.00 EARTH
                 Common Exc       92        173        173   1.00
27214      27214
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        166        300        300   1.00   -26257
53471      53471
             TOPSOIL
                 Common Exc        6         13         13   1.00
1907       1907
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       34         61         61   1.00
6777       6777
                     Fill          0          0          0   1.00   -26257
0          0
                 Mass ordinate for TOPSOIL = 8684

   81+27.41 EARTH
                 Common Exc       96         95         95   1.00
27309      27309
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        157        164        164   1.00   -26326
53635      53635
             TOPSOIL
                 Common Exc        8          7          7   1.00
1914       1914
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       32         34         34   1.00
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6811       6811
                  Fill          0          0          0   1.00   -26326
0          0
               Mass ordinate for TOPSOIL = 8725

   81+50.00 EARTH
               Common Exc      105         84         84   1.00
27393      27393
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        132        121        121   1.00   -26363
53756      53756
              TOPSOIL
               Common Exc       10          8          8   1.00
1922       1922
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       28         25         25   1.00
6836       6836
                  Fill          0          0          0   1.00   -26363
0          0
               Mass ordinate for TOPSOIL = 8758

   81+66.41 EARTH
               Common Exc      114         67         67   1.00
27460      27460
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        112         74         74   1.00   -26370
53830      53830
              TOPSOIL
               Common Exc       11          6          6   1.00
1928       1928
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       26         16         16   1.00
6852       6852
                  Fill          0          0          0   1.00   -26370
0          0
               Mass ordinate for TOPSOIL = 8780

   82+00.00 EARTH
               Common Exc      134        154        154   1.00
27614      27614
             Subgrade Exc        0          0          0   1.00
0          0
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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         90        126        126   1.00   -26342
53956      53956
             TOPSOIL
                 Common Exc       17         17         17   1.00
1945       1945
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       20         29         29   1.00
6881       6881
                     Fill          0          0          0   1.00   -26342
0          0
                 Mass ordinate for TOPSOIL = 8826

   82+50.00 EARTH
                 Common Exc      152        265        265   1.00
27879      27879
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         53        132        132   1.00   -26209
54088      54088
             TOPSOIL
                 Common Exc       20         34         34   1.00
1979       1979
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       13         31         31   1.00
6912       6912
                     Fill          0          0          0   1.00   -26209
0          0
                 Mass ordinate for TOPSOIL = 8891

   82+91.00 EARTH
                 Common Exc      161        238        238   1.00
28117      28117
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         49         77         77   1.00   -26048
54165      54165
             TOPSOIL
                 Common Exc       12         24         24   1.00
2003       2003
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       17         23         23   1.00
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6935       6935
                Fill          0          0          0   1.00   -26048
0          0
          Mass ordinate for TOPSOIL = 8938

   83+00.00 EARTH
               Common Exc      165         54         54   1.00
28171      28171
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         46         16         16   1.00   -26010
54181      54181
             TOPSOIL
               Common Exc       13          4          4   1.00
2007       2007
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       17          6          6   1.00
6941       6941
                Fill          0          0          0   1.00   -26010
0          0
          Mass ordinate for TOPSOIL = 8948

   83+50.00 EARTH
               Common Exc      185        324        324   1.00
28495      28495
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         25         66         66   1.00   -25752
54247      54247
             TOPSOIL
               Common Exc       19         30         30   1.00
2037       2037
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       11         26         26   1.00
6967       6967
                Fill          0          0          0   1.00   -25752
0          0
          Mass ordinate for TOPSOIL = 9004

   84+00.00 EARTH
               Common Exc      213        369        369   1.00
28864      28864
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         11         33         33   1.00   -25416
54280      54280
             TOPSOIL
                 Common Exc       12         29         29   1.00
2066       2066
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         19         19   1.00
6986       6986
                     Fill          0          0          0   1.00   -25416
0          0
                 Mass ordinate for TOPSOIL = 9052

   84+50.00 EARTH
                 Common Exc      229        409        409   1.00
29273      29273
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         10         19         19   1.00   -25026
54299      54299
             TOPSOIL
                 Common Exc       22         31         31   1.00
2097       2097
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         17         17   1.00
7003       7003
                     Fill          0          0          0   1.00   -25026
0          0
                 Mass ordinate for TOPSOIL = 9100

   85+00.00 EARTH
                 Common Exc      214        410        410   1.00
29683      29683
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         13         21         21   1.00   -24637
54320      54320
             TOPSOIL
                 Common Exc       19         38         38   1.00
2135       2135
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         18         18   1.00
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7021       7021
                Fill          0          0          0   1.00   -24637
0          0
          Mass ordinate for TOPSOIL = 9156

   85+50.00 EARTH
               Common Exc      210        393        393   1.00
30076      30076
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         21         31         31   1.00   -24275
54351      54351
             TOPSOIL
               Common Exc       12         29         29   1.00
2164       2164
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         22         22   1.00
7043       7043
                Fill          0          0          0   1.00   -24275
0          0
          Mass ordinate for TOPSOIL = 9207

   86+00.00 EARTH
               Common Exc      200        380        380   1.00
30456      30456
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         36         53         53   1.00   -23948
54404      54404
             TOPSOIL
               Common Exc       12         22         22   1.00
2186       2186
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       16         28         28   1.00
7071       7071
                Fill          0          0          0   1.00   -23948
0          0
          Mass ordinate for TOPSOIL = 9257

   86+50.00 EARTH
               Common Exc      193        364        364   1.00
30820      30820
             Subgrade Exc        0          0          0   1.00
0          0
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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         56         85         85   1.00   -23669
54489      54489
             TOPSOIL
                 Common Exc       12         22         22   1.00
2208       2208
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         31         31   1.00
7102       7102
                     Fill          0          0          0   1.00   -23669
0          0
                 Mass ordinate for TOPSOIL = 9310

   87+00.00 EARTH
                 Common Exc      187        352        352   1.00
31172      31172
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         62        109        109   1.00   -23426
54598      54598
             TOPSOIL
                 Common Exc       12         22         22   1.00
2230       2230
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         34         34   1.00
7136       7136
                     Fill          0          0          0   1.00   -23426
0          0
                 Mass ordinate for TOPSOIL = 9366

   87+50.00 EARTH
                 Common Exc      183        343        343   1.00
31515      31515
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         69        121        121   1.00   -23204
54719      54719
             TOPSOIL
                 Common Exc       12         22         22   1.00
2252       2252
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         34         34   1.00
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7170       7170
                  Fill          0          0          0   1.00   -23204
0          0
               Mass ordinate for TOPSOIL = 9422

   89+00.00 EARTH
               Common Exc      190       1036       1036   1.00
32551      32551
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          33        283        283   1.00   -22451
55002      55002
             TOPSOIL
               Common Exc       15         75         75   1.00
2327       2327
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       14         89         89   1.00
7259       7259
                  Fill          0          0          0   1.00   -22451
0          0
               Mass ordinate for TOPSOIL = 9586

   89+50.00 EARTH
               Common Exc      216        376        376   1.00
32927      32927
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          26         55         55   1.00   -22130
55057      55057
             TOPSOIL
               Common Exc       18         31         31   1.00
2358       2358
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       12         24         24   1.00
7283       7283
                  Fill          0          0          0   1.00   -22130
0          0
               Mass ordinate for TOPSOIL = 9641

   90+00.00 EARTH
               Common Exc      197        382        382   1.00
33309      33309
              Subgrade Exc       0          0          0   1.00
0          0
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```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          6         30         30   1.00   -21778
55087      55087
             TOPSOIL
                 Common Exc       14         30         30   1.00
2388       2388
                Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        4         15         15   1.00
7298       7298
                     Fill          0          0          0   1.00   -21778
0          0
                  Mass ordinate for TOPSOIL = 9686

   90+50.00 EARTH
                 Common Exc      190        358        358   1.00
33667      33667
                Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill         15         19         19   1.00   -21439
55106      55106
             TOPSOIL
                 Common Exc       22         33         33   1.00
2421       2421
                Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        6          9          9   1.00
7307       7307
                     Fill          0          0          0   1.00   -21439
0          0
                  Mass ordinate for TOPSOIL = 9728

   91+00.00 EARTH
                 Common Exc      173        336        336   1.00
34003      34003
                Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill         23         35         35   1.00   -21138
55141      55141
             TOPSOIL
                 Common Exc       18         37         37   1.00
2458       2458
                Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       10         15         15   1.00
```

```
7322       7322
                Fill          0          0          0   1.00   -21138
0          0
          Mass ordinate for TOPSOIL = 9780

   91+50.00 EARTH
               Common Exc      179        326        326   1.00
34329      34329
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         28         47         47   1.00   -20859
55188      55188
             TOPSOIL
               Common Exc       21         36         36   1.00
2494       2494
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         22         22   1.00
7344       7344
                Fill          0          0          0   1.00   -20859
0          0
          Mass ordinate for TOPSOIL = 9838

   92+00.00 EARTH
               Common Exc      190        342        342   1.00
34671      34671
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         14         39         39   1.00   -20556
55227      55227
             TOPSOIL
               Common Exc       26         44         44   1.00
2538       2538
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        7         19         19   1.00
7363       7363
                Fill          0          0          0   1.00   -20556
0          0
          Mass ordinate for TOPSOIL = 9901

   92+50.00 EARTH
               Common Exc      136        302        302   1.00
34973      34973
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         49         58         58   1.00   -20312
55285      55285
             TOPSOIL
                 Common Exc       37         58         58   1.00
2596       2596
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         21         21   1.00
7384       7384
                     Fill          0          0          0   1.00   -20312
0          0
                 Mass ordinate for TOPSOIL = 9980

   93+00.00 EARTH
                 Common Exc      158        272        272   1.00
35245      35245
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         64        105        105   1.00   -20145
55390      55390
             TOPSOIL
                 Common Exc       13         46         46   1.00
2642       2642
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       22         35         35   1.00
7419       7419
                     Fill          0          0          0   1.00   -20145
0          0
                 Mass ordinate for TOPSOIL = 10061

   93+50.00 EARTH
                 Common Exc      156        291        291   1.00
35536      35536
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         50        106        106   1.00   -19960
55496      55496
             TOPSOIL
                 Common Exc       16         27         27   1.00
2669       2669
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       17         36         36   1.00
```

```
7455       7455
                  Fill          0          0          0   1.00   -19960
0          0
               Mass ordinate for TOPSOIL = 10124

   94+00.00 EARTH
               Common Exc      189        319        319   1.00
35855      35855
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          47         90         90   1.00   -19731
55586      55586
             TOPSOIL
               Common Exc       20         33         33   1.00
2702       2702
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       18         32         32   1.00
7487       7487
                  Fill          0          0          0   1.00   -19731
0          0
               Mass ordinate for TOPSOIL = 10189

   94+50.00 EARTH
               Common Exc      197        357        357   1.00
36212      36212
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          57         96         96   1.00   -19470
55682      55682
             TOPSOIL
               Common Exc       22         39         39   1.00
2741       2741
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       18         33         33   1.00
7520       7520
                  Fill          0          0          0   1.00   -19470
0          0
               Mass ordinate for TOPSOIL = 10261

   95+00.00 EARTH
               Common Exc      214        381        381   1.00
36593      36593
              Subgrade Exc       0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         42         92         92   1.00   -19181
55774      55774
             TOPSOIL
                 Common Exc       22         41         41   1.00
2782       2782
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         34         34   1.00
7554       7554
                     Fill          0          0          0   1.00   -19181
0          0
                 Mass ordinate for TOPSOIL = 10336

   95+50.00 EARTH
                 Common Exc      201        384        384   1.00
36977      36977
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         37         73         73   1.00   -18870
55847      55847
             TOPSOIL
                 Common Exc       18         37         37   1.00
2819       2819
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         27         27   1.00
7581       7581
                     Fill          0          0          0   1.00   -18870
0          0
                 Mass ordinate for TOPSOIL = 10400

   96+00.00 EARTH
                 Common Exc      115        293        293   1.00
37270      37270
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        111        137        137   1.00   -18714
55984      55984
             TOPSOIL
                 Common Exc       12         28         28   1.00
2847       2847
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       28         35         35   1.00
```

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7616       7616
                Fill          0          0          0   1.00   -18714
0          0
          Mass ordinate for TOPSOIL = 10463

   96+50.00 EARTH
               Common Exc      116        214        214   1.00
37484      37484
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        119        213        213   1.00   -18713
56197      56197
             TOPSOIL
               Common Exc       11         21         21   1.00
2868       2868
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       30         54         54   1.00
7670       7670
                Fill          0          0          0   1.00   -18713
0          0
          Mass ordinate for TOPSOIL = 10538

   97+00.00 EARTH
               Common Exc      106        206        206   1.00
37690      37690
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        307        394        394   1.00   -18901
56591      56591
             TOPSOIL
               Common Exc        7         17         17   1.00
2885       2885
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       39         64         64   1.00
7734       7734
                Fill          0          0          0   1.00   -18901
0          0
          Mass ordinate for TOPSOIL = 10619

   97+50.00 EARTH
               Common Exc      108        198        198   1.00
37888      37888
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        453        704        704   1.00   -19407
57295      57295
             TOPSOIL
                 Common Exc        7         13         13   1.00
2898       2898
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       48         81         81   1.00
7815       7815
                     Fill          0          0          0   1.00   -19407
0          0
                 Mass ordinate for TOPSOIL = 10713

   98+00.00 EARTH
                 Common Exc      103        195        195   1.00
38083      38083
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        645       1017       1017   1.00   -20229
58312      58312
             TOPSOIL
                 Common Exc        7         13         13   1.00
2911       2911
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       58         98         98   1.00
7913       7913
                     Fill          0          0          0   1.00   -20229
0          0
                 Mass ordinate for TOPSOIL = 10824

   98+50.00 EARTH
                 Common Exc      101        189        189   1.00
38272      38272
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        595       1148       1148   1.00   -21188
59460      59460
             TOPSOIL
                 Common Exc        5         11         11   1.00
2922       2922
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       54        104        104   1.00
```

```
8017       8017
                  Fill          0          0          0   1.00   -21188
0          0
               Mass ordinate for TOPSOIL = 10939

   99+00.00 EARTH
               Common Exc       99        185        185   1.00
38457      38457
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         619       1124       1124   1.00   -22127
60584      60584
               TOPSOIL
               Common Exc        6         10         10   1.00
2932       2932
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      56        102        102   1.00
8119       8119
                  Fill          0          0          0   1.00   -22127
0          0
               Mass ordinate for TOPSOIL = 11051

   99+21.16 EARTH
               Common Exc       92         75         75   1.00
38532      38532
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         640        493        493   1.00   -22545
61077      61077
               TOPSOIL
               Common Exc        5          4          4   1.00
2936       2936
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      57         44         44   1.00
8163       8163
                  Fill          0          0          0   1.00   -22545
0          0
               Mass ordinate for TOPSOIL = 11099

   99+50.00 EARTH
               Common Exc       78         91         91   1.00
38623      38623
              Subgrade Exc       0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        704        718        718   1.00   -23172
61795      61795
             TOPSOIL
                 Common Exc        4          5          5   1.00
2941       2941
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       60         63         63   1.00
8226       8226
                     Fill          0          0          0   1.00   -23172
0          0
                 Mass ordinate for TOPSOIL = 11167

   99+60.16 EARTH
                 Common Exc       75         29         29   1.00
38652      38652
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        704        264        264   1.00   -23407
62059      62059
             TOPSOIL
                 Common Exc        4          2          2   1.00
2943       2943
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       61         23         23   1.00
8249       8249
                     Fill          0          0          0   1.00   -23407
0          0
                 Mass ordinate for TOPSOIL = 11192

  100+00.00 EARTH
                 Common Exc       77        112        112   1.00
38764      38764
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        466        863        863   1.00   -24158
62922      62922
             TOPSOIL
                 Common Exc        5          7          7   1.00
2950       2950
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       47         80         80   1.00
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8329       8329
                Fill          0          0          0   1.00   -24158
0          0
          Mass ordinate for TOPSOIL = 11279

  100+50.00 EARTH
               Common Exc       85        150        150   1.00
38914      38914
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         702       1082       1082   1.00   -25090
64004      64004
             TOPSOIL
               Common Exc        5          9          9   1.00
2959       2959
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       56         95         95   1.00
8424       8424
                Fill          0          0          0   1.00   -25090
0          0
          Mass ordinate for TOPSOIL = 11383

  100+84.00 EARTH
               Common Exc       83        106        106   1.00
39020      39020
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill       1162       1173       1173   1.00   -26157
65177      65177
             TOPSOIL
               Common Exc        5          6          6   1.00
2965       2965
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       23         50         50   1.00
8474       8474
                Fill          0          0          0   1.00   -26157
0          0
          Mass ordinate for TOPSOIL = 11439

  101+00.00 EARTH
               Common Exc       82         49         49   1.00
39069      39069
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill       1252        715        715   1.00   -26823
65892      65892
             TOPSOIL
                 Common Exc        5          3          3   1.00
2968       2968
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         14         14   1.00
8488       8488
                     Fill          0          0          0   1.00   -26823
0          0
                 Mass ordinate for TOPSOIL = 11456

  101+16.16 EARTH
                 Common Exc       78         48         48   1.00
39117      39117
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill       1108        706        706   1.00   -27481
66598      66598
             TOPSOIL
                 Common Exc        4          3          3   1.00
2971       2971
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       65         26         26   1.00
8514       8514
                     Fill          0          0          0   1.00   -27481
0          0
                 Mass ordinate for TOPSOIL = 11485

  101+41.17 EARTH
                 Common Exc       75         71         71   1.00
39188      39188
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        893        927        927   1.00   -28337
67525      67525
             TOPSOIL
                 Common Exc        4          4          4   1.00
2975       2975
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       61         58         58   1.00
```

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8572       8572
                Fill          0          0          0   1.00   -28337
0          0
          Mass ordinate for TOPSOIL = 11547

  101+50.00 EARTH
               Common Exc       76         25         25   1.00
39213      39213
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           791        275        275   1.00   -28587
67800      67800
             TOPSOIL
               Common Exc        4          1          1   1.00
2976       2976
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       59         20         20   1.00
8592       8592
                Fill          0          0          0   1.00   -28587
0          0
          Mass ordinate for TOPSOIL = 11568

  102+00.00 EARTH
               Common Exc       80        144        144   1.00
39357      39357
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           556       1247       1247   1.00   -29690
69047      69047
             TOPSOIL
               Common Exc        4          7          7   1.00
2983       2983
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       52        103        103   1.00
8695       8695
                Fill          0          0          0   1.00   -29690
0          0
          Mass ordinate for TOPSOIL = 11678

  102+50.00 EARTH
               Common Exc       76        144        144   1.00
39501      39501
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        454        935        935   1.00   -30481
69982      69982
             TOPSOIL
                 Common Exc        4          7          7   1.00
2990       2990
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       53         97         97   1.00
8792       8792
                     Fill          0          0          0   1.00   -30481
0          0
                 Mass ordinate for TOPSOIL = 11782

  102+88.54 EARTH
                 Common Exc       72        106        106   1.00
39607      39607
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        385        599        599   1.00   -30974
70581      70581
             TOPSOIL
                 Common Exc        4          6          6   1.00
2996       2996
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       48         72         72   1.00
8864       8864
                     Fill          0          0          0   1.00   -30974
0          0
                 Mass ordinate for TOPSOIL = 11860

  103+00.00 EARTH
                 Common Exc       72         31         31   1.00
39638      39638
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        380        162        162   1.00   -31105
70743      70743
             TOPSOIL
                 Common Exc        4          2          2   1.00
2998       2998
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       47         20         20   1.00
```

```
8884       8884
                  Fill          0          0          0   1.00   -31105
0          0
               Mass ordinate for TOPSOIL = 11882

  103+50.00 EARTH
               Common Exc       74        135        135   1.00
39773      39773
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         380        704        704   1.00   -31674
71447      71447
              TOPSOIL
               Common Exc        3          6          6   1.00
3004       3004
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       47         87         87   1.00
8971       8971
                  Fill          0          0          0   1.00   -31674
0          0
               Mass ordinate for TOPSOIL = 11975

  103+51.17 EARTH
               Common Exc       74          3          3   1.00
39776      39776
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         380         17         17   1.00   -31688
71464      71464
              TOPSOIL
               Common Exc        3          0          0   1.00
3004       3004
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       47          2          2   1.00
8973       8973
                  Fill          0          0          0   1.00   -31688
0          0
               Mass ordinate for TOPSOIL = 11977

  104+00.00 EARTH
               Common Exc       88        146        146   1.00
39922      39922
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        295        610        610   1.00   -32152
72074      72074
             TOPSOIL
                 Common Exc       10         12         12   1.00
3016       3016
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         75         75   1.00
9048       9048
                     Fill          0          0          0   1.00   -32152
0          0
                 Mass ordinate for TOPSOIL = 12064

  104+50.00 EARTH
                 Common Exc      121        194        194   1.00
40116      40116
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        174        434        434   1.00   -32392
72508      72508
             TOPSOIL
                 Common Exc       15         23         23   1.00
3039       3039
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       28         59         59   1.00
9107       9107
                     Fill          0          0          0   1.00   -32392
0          0
                 Mass ordinate for TOPSOIL = 12146

  105+00.00 EARTH
                 Common Exc      127        230        230   1.00
40346      40346
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         78        233        233   1.00   -32395
72741      72741
             TOPSOIL
                 Common Exc       23         35         35   1.00
3074       3074
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         45         45   1.00
```

```
9152       9152
                  Fill          0          0          0   1.00   -32395
0          0
               Mass ordinate for TOPSOIL = 12226

  105+50.00 EARTH
               Common Exc      113        222        222   1.00
40568      40568
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         36        106        106   1.00   -32279
72847      72847
              TOPSOIL
               Common Exc       14         34         34   1.00
3108       3108
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        1         20         20   1.00
9172       9172
                  Fill          0          0          0   1.00   -32279
0          0
               Mass ordinate for TOPSOIL = 12280

  106+00.00 EARTH
               Common Exc       99        196        196   1.00
40764      40764
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         55         84         84   1.00   -32167
72931      72931
              TOPSOIL
               Common Exc       18         30         30   1.00
3138       3138
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       18         18         18   1.00
9190       9190
                  Fill          0          0          0   1.00   -32167
0          0
               Mass ordinate for TOPSOIL = 12328

  106+38.85 EARTH
               Common Exc       93        138        138   1.00
40902      40902
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         47         73         73   1.00   -32102
73004      73004
             TOPSOIL
                 Common Exc       16         24         24   1.00
3162       3162
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       14         23         23   1.00
9213       9213
                     Fill          0          0          0   1.00   -32102
0          0
                  Mass ordinate for TOPSOIL = 12375

  106+50.00 EARTH
                 Common Exc       90         38         38   1.00
40940      40940
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill         50         20         20   1.00   -32084
73024      73024
             TOPSOIL
                 Common Exc       15          6          6   1.00
3168       3168
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       15          6          6   1.00
9219       9219
                     Fill          0          0          0   1.00   -32084
0          0
                  Mass ordinate for TOPSOIL = 12387

  107+00.00 EARTH
                 Common Exc       79        156        156   1.00
41096      41096
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill         55         97         97   1.00   -32025
73121      73121
             TOPSOIL
                 Common Exc        8         21         21   1.00
3189       3189
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       20         32         32   1.00
```

```
9251       9251
                Fill          0          0          0   1.00   -32025
0          0
     Mass ordinate for TOPSOIL = 12440

  107+01.49 EARTH
               Common Exc       79          4          4   1.00
41100      41100
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          56          3          3   1.00   -32024
73124      73124
             TOPSOIL
               Common Exc        8          0          0   1.00
3189       3189
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20          1          1   1.00
9252       9252
                Fill          0          0          0   1.00   -32024
0          0
     Mass ordinate for TOPSOIL = 12441

  107+50.00 EARTH
               Common Exc       79        142        142   1.00
41242      41242
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          58        102        102   1.00   -31984
73226      73226
             TOPSOIL
               Common Exc        6         13         13   1.00
3202       3202
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       22         38         38   1.00
9290       9290
                Fill          0          0          0   1.00   -31984
0          0
     Mass ordinate for TOPSOIL = 12492

  108+00.00 EARTH
               Common Exc       95        161        161   1.00
41403      41403
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         12         65         65   1.00   -31888
73291      73291
             TOPSOIL
                 Common Exc       18         22         22   1.00
3224       3224
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        8         28         28   1.00
9318       9318
                     Fill          0          0          0   1.00   -31888
0          0
                  Mass ordinate for TOPSOIL = 12542

  108+48.85 EARTH
                 Common Exc       68        147        147   1.00
41550      41550
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill        104        105        105   1.00   -31846
73396      73396
             TOPSOIL
                 Common Exc        8         24         24   1.00
3248       3248
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       21         26         26   1.00
9344       9344
                     Fill          0          0          0   1.00   -31846
0          0
                  Mass ordinate for TOPSOIL = 12592

  108+50.00 EARTH
                 Common Exc       68          3          3   1.00
41553      41553
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc        0          0          0   1.00
0          0
                     Fill        105          4          4   1.00   -31847
73400      73400
             TOPSOIL
                 Common Exc        8          0          0   1.00
3248       3248
               Subgrade Exc        0          0          0   1.00
0          0
                 Subsoil Exc       21          1          1   1.00
```

```
9345       9345
                Fill          0          0          0   1.00   -31847
0          0
     Mass ordinate for TOPSOIL = 12593

  109+00.00 EARTH
               Common Exc       60        119        119   1.00
41672      41672
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           102        192        192   1.00   -31920
73592      73592
             TOPSOIL
               Common Exc        5         12         12   1.00
3260       3260
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         43         43   1.00
9388       9388
                Fill          0          0          0   1.00   -31920
0          0
     Mass ordinate for TOPSOIL = 12648

  109+50.00 EARTH
               Common Exc       54        106        106   1.00
41778      41778
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           146        230        230   1.00   -32044
73822      73822
             TOPSOIL
               Common Exc        4          8          8   1.00
3268       3268
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       27         48         48   1.00
9436       9436
                Fill          0          0          0   1.00   -32044
0          0
     Mass ordinate for TOPSOIL = 12704

  110+00.00 EARTH
               Common Exc       67        112        112   1.00
41890      41890
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         81        210        210   1.00   -32142
74032      74032
             TOPSOIL
                 Common Exc       10         13         13   1.00
3281       3281
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         46         46   1.00
9482       9482
                     Fill          0          0          0   1.00   -32142
0          0
                 Mass ordinate for TOPSOIL = 12763

  110+50.00 EARTH
                 Common Exc      109        163        163   1.00
42053      42053
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         97        165        165   1.00   -32144
74197      74197
             TOPSOIL
                 Common Exc       19         27         27   1.00
3308       3308
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         41         41   1.00
9523       9523
                     Fill          0          0          0   1.00   -32144
0          0
                 Mass ordinate for TOPSOIL = 12831

  111+00.00 EARTH
                 Common Exc       83        178        178   1.00
42231      42231
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        109        191        191   1.00   -32157
74388      74388
             TOPSOIL
                 Common Exc       16         32         32   1.00
3340       3340
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       22         40         40   1.00
```

```
9563       9563
                Fill          0          0          0   1.00   -32157
0          0
          Mass ordinate for TOPSOIL = 12903

  111+50.00 EARTH
               Common Exc       64        136        136   1.00
42367      42367
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        107        200        200   1.00   -32221
74588      74588
             TOPSOIL
               Common Exc       12         26         26   1.00
3366       3366
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       24         43         43   1.00
9606       9606
                Fill          0          0          0   1.00   -32221
0          0
          Mass ordinate for TOPSOIL = 12972

  112+00.00 EARTH
               Common Exc       58        113        113   1.00
42480      42480
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        120        210        210   1.00   -32318
74798      74798
             TOPSOIL
               Common Exc        8         19         19   1.00
3385       3385
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       26         46         46   1.00
9652       9652
                Fill          0          0          0   1.00   -32318
0          0
          Mass ordinate for TOPSOIL = 13037

  112+49.65 EARTH
               Common Exc       50         99         99   1.00
42579      42579
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        137        236        236   1.00   -32455
75034      75034
             TOPSOIL
                 Common Exc        5         12         12   1.00
3397       3397
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         51         51   1.00
9703       9703
                     Fill          0          0          0   1.00   -32455
0          0
                 Mass ordinate for TOPSOIL = 13100

  112+50.00 EARTH
                 Common Exc       50          1          1   1.00
42580      42580
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        138          2          2   1.00   -32456
75036      75036
             TOPSOIL
                 Common Exc        5          0          0   1.00
3397       3397
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29          0          0   1.00
9703       9703
                     Fill          0          0          0   1.00   -32456
0          0
                 Mass ordinate for TOPSOIL = 13100

  113+00.00 EARTH
                 Common Exc       59        101        101   1.00
42681      42681
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         44        169        169   1.00   -32524
75205      75205
             TOPSOIL
                 Common Exc        9         13         13   1.00
3410       3410
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         34         34   1.00
```

```
9737       9737
                  Fill          0          0          0   1.00   -32524
0          0
               Mass ordinate for TOPSOIL = 13147

  113+50.00 EARTH
               Common Exc       58        108        108   1.00
42789      42789
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         203        229        229   1.00   -32645
75434      75434
              TOPSOIL
               Common Exc        5         13         13   1.00
3423       3423
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       36         41         41   1.00
9778       9778
                  Fill          0          0          0   1.00   -32645
0          0
               Mass ordinate for TOPSOIL = 13201

  113+95.10 EARTH
               Common Exc       58         97         97   1.00
42886      42886
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         254        382        382   1.00   -32930
75816      75816
              TOPSOIL
               Common Exc        8         11         11   1.00
3434       3434
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       36         60         60   1.00
9838       9838
                  Fill          0          0          0   1.00   -32930
0          0
               Mass ordinate for TOPSOIL = 13272

  114+00.00 EARTH
               Common Exc       58         11         11   1.00
42897      42897
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        252         46         46   1.00   -32965
75862      75862
             TOPSOIL
                 Common Exc        7          1          1   1.00
3435       3435
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36          7          7   1.00
9845       9845
                     Fill          0          0          0   1.00   -32965
0          0
                 Mass ordinate for TOPSOIL = 13280

  114+09.65 EARTH
                 Common Exc       60         21         21   1.00
42918      42918
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        257         91         91   1.00   -33035
75953      75953
             TOPSOIL
                 Common Exc        8          3          3   1.00
3438       3438
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         13         13   1.00
9858       9858
                     Fill          0          0          0   1.00   -33035
0          0
                 Mass ordinate for TOPSOIL = 13296

  114+50.00 EARTH
                 Common Exc       57         87         87   1.00
43005      43005
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        233        366        366   1.00   -33314
76319      76319
             TOPSOIL
                 Common Exc        7         11         11   1.00
3449       3449
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         54         54   1.00
```

```
9912       9912
                Fill          0          0          0   1.00   -33314
0          0
     Mass ordinate for TOPSOIL = 13361

  115+00.00 EARTH
               Common Exc       51        100        100   1.00
43105      43105
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           210        410        410   1.00   -33624
76729      76729
             TOPSOIL
               Common Exc        7         13         13   1.00
3462       3462
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       35         66         66   1.00
9978       9978
                Fill          0          0          0   1.00   -33624
0          0
     Mass ordinate for TOPSOIL = 13440

  115+50.00 EARTH
               Common Exc       51         94         94   1.00
43199      43199
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           179        360        360   1.00   -33890
77089      77089
             TOPSOIL
               Common Exc        7         13         13   1.00
3475       3475
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       34         64         64   1.00
10042      10042
                Fill          0          0          0   1.00   -33890
0          0
     Mass ordinate for TOPSOIL = 13517

  116+00.00 EARTH
               Common Exc       58        101        101   1.00
43300      43300
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        133        289        289   1.00   -34078
77378      77378
             TOPSOIL
                 Common Exc        7         13         13   1.00
3488       3488
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       30         59         59   1.00
10101      10101
                     Fill          0          0          0   1.00   -34078
0          0
                 Mass ordinate for TOPSOIL = 13589

  116+50.00 EARTH
                 Common Exc       69        118        118   1.00
43418      43418
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         72        190        190   1.00   -34150
77568      77568
             TOPSOIL
                 Common Exc       12         18         18   1.00
3506       3506
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         49         49   1.00
10150      10150
                     Fill          0          0          0   1.00   -34150
0          0
                 Mass ordinate for TOPSOIL = 13656

  117+00.00 EARTH
                 Common Exc       55        115        115   1.00
43533      43533
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         96        156        156   1.00   -34191
77724      77724
             TOPSOIL
                 Common Exc        5         16         16   1.00
3522       3522
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         48         48   1.00
```

```
10198      10198
                Fill          0          0          0   1.00   -34191
0          0
          Mass ordinate for TOPSOIL = 13720

  117+50.00 EARTH
               Common Exc       53        100        100   1.00
43633      43633
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         106        187        187   1.00   -34278
77911      77911
             TOPSOIL
               Common Exc        4          8          8   1.00
3530       3530
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       28         53         53   1.00
10251      10251
                Fill          0          0          0   1.00   -34278
0          0
          Mass ordinate for TOPSOIL = 13781

  117+86.00 EARTH
               Common Exc       53         71         71   1.00
43704      43704
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         98        136        136   1.00   -34343
78047      78047
             TOPSOIL
               Common Exc        3          5          5   1.00
3535       3535
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       26         36         36   1.00
10287      10287
                Fill          0          0          0   1.00   -34343
0          0
          Mass ordinate for TOPSOIL = 13822

  118+00.00 EARTH
               Common Exc       53         27         27   1.00
43731      43731
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         77         45         45   1.00   -34361
78092      78092
             TOPSOIL
                 Common Exc        3          2          2   1.00
3537       3537
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         13         13   1.00
10300      10300
                     Fill          0          0          0   1.00   -34361
0          0
                 Mass ordinate for TOPSOIL = 13837

  118+50.00 EARTH
                 Common Exc       62        106        106   1.00
43837      43837
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         41        109        109   1.00   -34364
78201      78201
             TOPSOIL
                 Common Exc       15         17         17   1.00
3554       3554
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       13         34         34   1.00
10334      10334
                     Fill          0          0          0   1.00   -34364
0          0
                 Mass ordinate for TOPSOIL = 13888

  119+00.00 EARTH
                 Common Exc       63        116        116   1.00
43953      43953
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         36         71         71   1.00   -34319
78272      78272
             TOPSOIL
                 Common Exc       17         30         30   1.00
3584       3584
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       13         24         24   1.00
```

```
10358      10358
                  Fill          0          0          0   1.00   -34319
0          0
               Mass ordinate for TOPSOIL = 13942

  119+50.00 EARTH
               Common Exc       52        106        106   1.00
44059      44059
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         39         69         69   1.00   -34282
78341      78341
              TOPSOIL
               Common Exc        8         23         23   1.00
3607       3607
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       19         30         30   1.00
10388      10388
                  Fill          0          0          0   1.00   -34282
0          0
               Mass ordinate for TOPSOIL = 13995

  119+50.27 EARTH
               Common Exc       52          1          1   1.00
44060      44060
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         39          0          0   1.00   -34281
78341      78341
              TOPSOIL
               Common Exc        8          0          0   1.00
3607       3607
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       19          0          0   1.00
10388      10388
                  Fill          0          0          0   1.00   -34281
0          0
               Mass ordinate for TOPSOIL = 13995

  119+64.82 EARTH
               Common Exc       55         29         29   1.00
44089      44089
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         38         21         21   1.00   -34273
78362      78362
             TOPSOIL
                 Common Exc        8          4          4   1.00
3611       3611
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         10         10   1.00
10398      10398
                     Fill          0          0          0   1.00   -34273
0          0
                 Mass ordinate for TOPSOIL = 14009

  120+00.00 EARTH
                 Common Exc       56         72         72   1.00
44161      44161
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         62         65         65   1.00   -34266
78427      78427
             TOPSOIL
                 Common Exc        6          9          9   1.00
3620       3620
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         27         27   1.00
10425      10425
                     Fill          0          0          0   1.00   -34266
0          0
                 Mass ordinate for TOPSOIL = 14045

  120+50.00 EARTH
                 Common Exc       72        119        119   1.00
44280      44280
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         36         91         91   1.00   -34238
78518      78518
             TOPSOIL
                 Common Exc       10         15         15   1.00
3635       3635
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         39         39   1.00
```

```
10464      10464
                Fill          0          0          0   1.00   -34238
0          0
          Mass ordinate for TOPSOIL = 14099

  121+00.00 EARTH
               Common Exc       90        150        150   1.00
44430      44430
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          34         65         65   1.00   -34153
78583      78583
             TOPSOIL
               Common Exc       19         27         27   1.00
3662       3662
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       15         31         31   1.00
10495      10495
                Fill          0          0          0   1.00   -34153
0          0
          Mass ordinate for TOPSOIL = 14157

  121+10.27 EARTH
               Common Exc       91         34         34   1.00
44464      44464
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          33         13         13   1.00   -34132
78596      78596
             TOPSOIL
               Common Exc       19          7          7   1.00
3669       3669
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       15          6          6   1.00
10501      10501
                Fill          0          0          0   1.00   -34132
0          0
          Mass ordinate for TOPSOIL = 14170

  121+50.00 EARTH
               Common Exc       90        133        133   1.00
44597      44597
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         36         51         51   1.00   -34050
78647      78647
             TOPSOIL
                 Common Exc       17         26         26   1.00
3695       3695
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         23         23   1.00
10524      10524
                     Fill          0          0          0   1.00   -34050
0          0
                 Mass ordinate for TOPSOIL = 14219

  122+00.00 EARTH
                 Common Exc       76        154        154   1.00
44751      44751
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         57         86         86   1.00   -33982
78733      78733
             TOPSOIL
                 Common Exc        8         23         23   1.00
3718       3718
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         34         34   1.00
10558      10558
                     Fill          0          0          0   1.00   -33982
0          0
                 Mass ordinate for TOPSOIL = 14276

  122+50.00 EARTH
                 Common Exc       88        152        152   1.00
44903      44903
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         23         74         74   1.00   -33904
78807      78807
             TOPSOIL
                 Common Exc       11         18         18   1.00
3736       3736
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       13         31         31   1.00
```

```
10589      10589
                Fill          0          0          0   1.00   -33904
0          0
          Mass ordinate for TOPSOIL = 14325

  123+00.00 EARTH
               Common Exc       83        158        158   1.00
45061      45061
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          30         49         49   1.00   -33795
78856      78856
             TOPSOIL
               Common Exc       13         22         22   1.00
3758       3758
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         25         25   1.00
10614      10614
                Fill          0          0          0   1.00   -33795
0          0
          Mass ordinate for TOPSOIL = 14372

  123+50.00 EARTH
               Common Exc       92        162        162   1.00
45223      45223
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          68         91         91   1.00   -33724
78947      78947
             TOPSOIL
               Common Exc       14         25         25   1.00
3783       3783
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       21         32         32   1.00
10646      10646
                Fill          0          0          0   1.00   -33724
0          0
          Mass ordinate for TOPSOIL = 14429

  124+00.00 EARTH
               Common Exc      132        207        207   1.00
45430      45430
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         30         91         91   1.00   -33608
79038      79038
             TOPSOIL
                 Common Exc        7         19         19   1.00
3802       3802
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11         30         30   1.00
10676      10676
                     Fill          0          0          0   1.00   -33608
0          0
                 Mass ordinate for TOPSOIL = 14478

  124+50.00 EARTH
                 Common Exc      115        229        229   1.00
45659      45659
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        100        120        120   1.00   -33499
79158      79158
             TOPSOIL
                 Common Exc       12         18         18   1.00
3820       3820
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         32         32   1.00
10708      10708
                     Fill          0          0          0   1.00   -33499
0          0
                 Mass ordinate for TOPSOIL = 14528

  125+00.00 EARTH
                 Common Exc      114        212        212   1.00
45871      45871
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        123        206        206   1.00   -33493
79364      79364
             TOPSOIL
                 Common Exc        8         19         19   1.00
3839       3839
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         47         47   1.00
```

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10755      10755
                Fill          0          0          0   1.00   -33493
0          0
          Mass ordinate for TOPSOIL = 14594

  125+50.00 EARTH
               Common Exc      129        225        225   1.00
46096      46096
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         95        202        202   1.00   -33470
79566      79566
             TOPSOIL
               Common Exc       11         18         18   1.00
3857       3857
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       21         44         44   1.00
10799      10799
                Fill          0          0          0   1.00   -33470
0          0
          Mass ordinate for TOPSOIL = 14656

  126+00.00 EARTH
               Common Exc      141        250        250   1.00
46346      46346
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         57        141        141   1.00   -33361
79707      79707
             TOPSOIL
               Common Exc       12         21         21   1.00
3878       3878
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       17         35         35   1.00
10834      10834
                Fill          0          0          0   1.00   -33361
0          0
          Mass ordinate for TOPSOIL = 14712

  126+50.00 EARTH
               Common Exc      153        272        272   1.00
46618      46618
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         17         69         69   1.00   -33158
79776      79776
             TOPSOIL
                 Common Exc       12         22         22   1.00
3900       3900
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       14         29         29   1.00
10863      10863
                     Fill          0          0          0   1.00   -33158
0          0
                 Mass ordinate for TOPSOIL = 14763

  127+00.00 EARTH
                 Common Exc      235        359        359   1.00
46977      46977
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1         17         17   1.00   -32816
79793      79793
             TOPSOIL
                 Common Exc       31         40         40   1.00
3940       3940
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1         14         14   1.00
10877      10877
                     Fill          0          0          0   1.00   -32816
0          0
                 Mass ordinate for TOPSOIL = 14817

  127+50.00 EARTH
                 Common Exc      188        392        392   1.00
47369      47369
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1          2          2   1.00   -32426
79795      79795
             TOPSOIL
                 Common Exc       31         57         57   1.00
3997       3997
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          2          2   1.00
```

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10879      10879
                  Fill          0          0          0   1.00   -32426
0          0
               Mass ordinate for TOPSOIL = 14876

  128+00.00 EARTH
               Common Exc      170        331        331   1.00
47700      47700
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         12         12         12   1.00   -32107
79807      79807
              TOPSOIL
               Common Exc       23         50         50   1.00
4047       4047
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          6          6   1.00
10885      10885
                  Fill          0          0          0   1.00   -32107
0          0
               Mass ordinate for TOPSOIL = 14932

  128+50.00 EARTH
               Common Exc      140        287        287   1.00
47987      47987
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         10         20         20   1.00   -31840
79827      79827
              TOPSOIL
               Common Exc       22         42         42   1.00
4089       4089
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        7         12         12   1.00
10897      10897
                  Fill          0          0          0   1.00   -31840
0          0
               Mass ordinate for TOPSOIL = 14986

  129+00.00 EARTH
               Common Exc      110        231        231   1.00
48218      48218
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         39         45         45   1.00   -31654
79872      79872
             TOPSOIL
                 Common Exc       12         31         31   1.00
4120       4120
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         20         20   1.00
10917      10917
                     Fill          0          0          0   1.00   -31654
0          0
                 Mass ordinate for TOPSOIL = 15037

  129+50.00 EARTH
                 Common Exc       89        184        184   1.00
48402      48402
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         70        101        101   1.00   -31571
79973      79973
             TOPSOIL
                 Common Exc        9         19         19   1.00
4139       4139
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         33         33   1.00
10950      10950
                     Fill          0          0          0   1.00   -31571
0          0
                 Mass ordinate for TOPSOIL = 15089

  129+95.07 EARTH
                 Common Exc       86        146        146   1.00
48548      48548
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         95        138        138   1.00   -31563
80111      80111
             TOPSOIL
                 Common Exc        6         13         13   1.00
4152       4152
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       25         38         38   1.00
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10988      10988
                Fill          0          0          0   1.00   -31563
0          0
          Mass ordinate for TOPSOIL = 15140

  130+00.00 EARTH
               Common Exc       85         16         16   1.00
48564      48564
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           100         18         18   1.00   -31565
80129      80129
             TOPSOIL
               Common Exc        5          1          1   1.00
4153       4153
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25          5          5   1.00
10993      10993
                Fill          0          0          0   1.00   -31565
0          0
          Mass ordinate for TOPSOIL = 15146

  130+50.00 EARTH
               Common Exc       72        145        145   1.00
48709      48709
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           147        229        229   1.00   -31649
80358      80358
             TOPSOIL
               Common Exc        4          8          8   1.00
4161       4161
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       29         50         50   1.00
11043      11043
                Fill          0          0          0   1.00   -31649
0          0
          Mass ordinate for TOPSOIL = 15204

  131+00.00 EARTH
               Common Exc       61        123        123   1.00
48832      48832
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        203        324        324   1.00   -31850
80682      80682
             TOPSOIL
                 Common Exc        3          6          6   1.00
4167       4167
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       33         57         57   1.00
11100      11100
                     Fill          0          0          0   1.00   -31850
0          0
                 Mass ordinate for TOPSOIL = 15267

  131+41.73 EARTH
                 Common Exc       55         90         90   1.00
48922      48922
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        254        353        353   1.00   -32113
81035      81035
             TOPSOIL
                 Common Exc        3          5          5   1.00
4172       4172
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       35         53         53   1.00
11153      11153
                     Fill          0          0          0   1.00   -32113
0          0
                 Mass ordinate for TOPSOIL = 15325

  131+50.00 EARTH
                 Common Exc       56         17         17   1.00
48939      48939
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        262         79         79   1.00   -32175
81114      81114
             TOPSOIL
                 Common Exc        3          1          1   1.00
4173       4173
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       35         11         11   1.00
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11164      11164
                Fill          0          0          0   1.00   -32175
0          0
          Mass ordinate for TOPSOIL = 15337

  132+00.00 EARTH
               Common Exc       59        106        106   1.00
49045      49045
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           297        518        518   1.00   -32587
81632      81632
             TOPSOIL
               Common Exc        2          5          5   1.00
4178       4178
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       38         68         68   1.00
11232      11232
                Fill          0          0          0   1.00   -32587
0          0
          Mass ordinate for TOPSOIL = 15410

  132+15.07 EARTH
               Common Exc       60         33         33   1.00
49078      49078
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           310        169        169   1.00   -32723
81801      81801
             TOPSOIL
               Common Exc        2          1          1   1.00
4179       4179
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       39         21         21   1.00
11253      11253
                Fill          0          0          0   1.00   -32723
0          0
          Mass ordinate for TOPSOIL = 15432

  132+50.00 EARTH
               Common Exc       59         77         77   1.00
49155      49155
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        327        412        412   1.00   -33058
82213      82213
             TOPSOIL
                 Common Exc        2          3          3   1.00
4182       4182
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       39         50         50   1.00
11303      11303
                     Fill          0          0          0   1.00   -33058
0          0
                 Mass ordinate for TOPSOIL = 15485

  133+00.00 EARTH
                 Common Exc       65        115        115   1.00
49270      49270
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        336        614        614   1.00   -33557
82827      82827
             TOPSOIL
                 Common Exc        6          7          7   1.00
4189       4189
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       39         72         72   1.00
11375      11375
                     Fill          0          0          0   1.00   -33557
0          0
                 Mass ordinate for TOPSOIL = 15564

  133+50.00 EARTH
                 Common Exc       71        126        126   1.00
49396      49396
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        331        618        618   1.00   -34049
83445      83445
             TOPSOIL
                 Common Exc        7         12         12   1.00
4201       4201
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       38         71         71   1.00
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11446      11446
                Fill          0          0          0   1.00   -34049
0          0
          Mass ordinate for TOPSOIL = 15647

  134+00.00 EARTH
               Common Exc       87        146        146   1.00
49542      49542
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           318        601        601   1.00   -34504
84046      84046
             TOPSOIL
               Common Exc        8         14         14   1.00
4215       4215
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       37         69         69   1.00
11515      11515
                Fill          0          0          0   1.00   -34504
0          0
          Mass ordinate for TOPSOIL = 15730

  134+50.00 EARTH
               Common Exc      102        175        175   1.00
49717      49717
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill           320        591        591   1.00   -34920
84637      84637
             TOPSOIL
               Common Exc       14         20         20   1.00
4235       4235
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       36         68         68   1.00
11583      11583
                Fill          0          0          0   1.00   -34920
0          0
          Mass ordinate for TOPSOIL = 15818

  135+00.00 EARTH
               Common Exc       97        184        184   1.00
49901      49901
             Subgrade Exc        0          0          0   1.00
0          0
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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        313        586        586   1.00   -35322
85223      85223
             TOPSOIL
                 Common Exc        6         19         19   1.00
4254       4254
                Subgrade Exc       0          0          0   1.00
0          0
                 Subsoil Exc       36         67         67   1.00
11650      11650
                     Fill          0          0          0   1.00   -35322
0          0
                  Mass ordinate for TOPSOIL = 15904

  135+50.00 EARTH
                 Common Exc      108        190        190   1.00
50091      50091
                Subgrade Exc       0          0          0   1.00
0          0
                 Subsoil Exc       0          0          0   1.00
0          0
                     Fill        336        601        601   1.00   -35733
85824      85824
             TOPSOIL
                 Common Exc        4          9          9   1.00
4263       4263
                Subgrade Exc       0          0          0   1.00
0          0
                 Subsoil Exc       38         69         69   1.00
11719      11719
                     Fill          0          0          0   1.00   -35733
0          0
                  Mass ordinate for TOPSOIL = 15982

  135+74.96 EARTH
                 Common Exc      117        104        104   1.00
50195      50195
                Subgrade Exc       0          0          0   1.00
0          0
                 Subsoil Exc       0          0          0   1.00
0          0
                     Fill        299        293        293   1.00   -35922
86117      86117
             TOPSOIL
                 Common Exc        5          4          4   1.00
4267       4267
                Subgrade Exc       0          0          0   1.00
0          0
                 Subsoil Exc       37         35         35   1.00
```

```
11754      11754
                Fill          0          0          0   1.00   -35922
0          0
     Mass ordinate for TOPSOIL = 16021

  136+00.00 EARTH
               Common Exc      117        109        109   1.00
50304      50304
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        272        265        265   1.00   -36078
86382      86382
             TOPSOIL
               Common Exc        6          5          5   1.00
4272       4272
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       38         35         35   1.00
11789      11789
                Fill          0          0          0   1.00   -36078
0          0
     Mass ordinate for TOPSOIL = 16061

  136+48.29 EARTH
               Common Exc      110        203        203   1.00
50507      50507
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        224        444        444   1.00   -36319
86826      86826
             TOPSOIL
               Common Exc        8         13         13   1.00
4285       4285
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       36         66         66   1.00
11855      11855
                Fill          0          0          0   1.00   -36319
0          0
     Mass ordinate for TOPSOIL = 16140

  136+50.00 EARTH
               Common Exc      109          7          7   1.00
50514      50514
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        224         14         14   1.00   -36326
86840      86840
             TOPSOIL
                 Common Exc        8          1          1   1.00
4286       4286
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36          2          2   1.00
11857      11857
                     Fill          0          0          0   1.00   -36326
0          0
                 Mass ordinate for TOPSOIL = 16143

  137+00.00 EARTH
                 Common Exc       99        193        193   1.00
50707      50707
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        230        420        420   1.00   -36553
87260      87260
             TOPSOIL
                 Common Exc        6         13         13   1.00
4299       4299
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         67         67   1.00
11924      11924
                     Fill          0          0          0   1.00   -36553
0          0
                 Mass ordinate for TOPSOIL = 16223

  137+50.00 EARTH
                 Common Exc      104        188        188   1.00
50895      50895
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        132        335        335   1.00   -36700
87595      87595
             TOPSOIL
                 Common Exc       13         18         18   1.00
4317       4317
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         60         60   1.00
```

```
11984      11984
                Fill          0          0          0   1.00   -36700
0          0
          Mass ordinate for TOPSOIL = 16301

  137+94.96 EARTH
               Common Exc      110        178        178   1.00
51073      51073
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        246        315        315   1.00   -36837
87910      87910
             TOPSOIL
               Common Exc        4         14         14   1.00
4331       4331
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       37         55         55   1.00
12039      12039
                Fill          0          0          0   1.00   -36837
0          0
          Mass ordinate for TOPSOIL = 16370

  138+00.00 EARTH
               Common Exc      115         21         21   1.00
51094      51094
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        267         48         48   1.00   -36864
87958      87958
             TOPSOIL
               Common Exc        4          1          1   1.00
4332       4332
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       38          7          7   1.00
12046      12046
                Fill          0          0          0   1.00   -36864
0          0
          Mass ordinate for TOPSOIL = 16378

  138+50.00 EARTH
               Common Exc       97        196        196   1.00
51290      51290
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        199        431        431   1.00   -37099
88389      88389
             TOPSOIL
                 Common Exc        2          6          6   1.00
4338       4338
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         60         60   1.00
12106      12106
                     Fill          0          0          0   1.00   -37099
0          0
                 Mass ordinate for TOPSOIL = 16444

  139+00.00 EARTH
                 Common Exc      112        194        194   1.00
51484      51484
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        191        361        361   1.00   -37266
88750      88750
             TOPSOIL
                 Common Exc        3          5          5   1.00
4343       4343
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       30         53         53   1.00
12159      12159
                     Fill          0          0          0   1.00   -37266
0          0
                 Mass ordinate for TOPSOIL = 16502

  139+50.00 EARTH
                 Common Exc      117        212        212   1.00
51696      51696
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        174        338        338   1.00   -37392
89088      89088
             TOPSOIL
                 Common Exc        4          6          6   1.00
4349       4349
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         55         55   1.00
```

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12214      12214
                  Fill          0          0          0   1.00   -37392
0          0
               Mass ordinate for TOPSOIL = 16563

  140+00.00 EARTH
               Common Exc      126        225        225   1.00
51921      51921
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        142        293        293   1.00   -37460
89381      89381
              TOPSOIL
               Common Exc        4          7          7   1.00
4356       4356
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       27         52         52   1.00
12266      12266
                  Fill          0          0          0   1.00   -37460
0          0
               Mass ordinate for TOPSOIL = 16622

  140+50.00 EARTH
               Common Exc      121        229        229   1.00
52150      52150
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        123        245        245   1.00   -37476
89626      89626
              TOPSOIL
               Common Exc        4          7          7   1.00
4363       4363
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       27         50         50   1.00
12316      12316
                  Fill          0          0          0   1.00   -37476
0          0
               Mass ordinate for TOPSOIL = 16679

  141+00.00 EARTH
               Common Exc      114        218        218   1.00
52368      52368
             Subgrade Exc        0          0          0   1.00
0          0
```

```
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill         89        196        196   1.00   -37454
89822      89822
            TOPSOIL
              Common Exc        4          7          7   1.00
4370       4370
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         48         48   1.00
12364      12364
                   Fill          0          0          0   1.00   -37454
0          0
               Mass ordinate for TOPSOIL = 16734

  141+50.00 EARTH
              Common Exc      118        215        215   1.00
52583      52583
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill         52        131        131   1.00   -37370
89953      89953
            TOPSOIL
              Common Exc       11         14         14   1.00
4384       4384
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       16         38         38   1.00
12402      12402
                   Fill          0          0          0   1.00   -37370
0          0
               Mass ordinate for TOPSOIL = 16786

  142+00.00 EARTH
              Common Exc      128        228        228   1.00
52811      52811
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill         51         95         95   1.00   -37237
90048      90048
            TOPSOIL
              Common Exc       11         20         20   1.00
4404       4404
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       17         31         31   1.00
```

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12433      12433
                  Fill          0          0          0   1.00   -37237
0          0
               Mass ordinate for TOPSOIL = 16837

  142+50.00 EARTH
               Common Exc      134        243        243   1.00
53054      53054
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         23         69         69   1.00   -37063
90117      90117
              TOPSOIL
               Common Exc       13         22         22   1.00
4426       4426
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       11         26         26   1.00
12459      12459
                  Fill          0          0          0   1.00   -37063
0          0
               Mass ordinate for TOPSOIL = 16885

  143+00.00 EARTH
               Common Exc      133        247        247   1.00
53301      53301
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         16         36         36   1.00   -36852
90153      90153
              TOPSOIL
               Common Exc       13         24         24   1.00
4450       4450
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       10         19         19   1.00
12478      12478
                  Fill          0          0          0   1.00   -36852
0          0
               Mass ordinate for TOPSOIL = 16928

  143+50.00 EARTH
               Common Exc      129        243        243   1.00
53544      53544
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         20         33         33   1.00   -36642
90186      90186
             TOPSOIL
                 Common Exc       12         23         23   1.00
4473       4473
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12         20         20   1.00
12498      12498
                     Fill          0          0          0   1.00   -36642
0          0
                 Mass ordinate for TOPSOIL = 16971

  144+00.00 EARTH
                 Common Exc      127        237        237   1.00
53781      53781
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         16         33         33   1.00   -36438
90219      90219
             TOPSOIL
                 Common Exc       15         25         25   1.00
4498       4498
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         20         20   1.00
12518      12518
                     Fill          0          0          0   1.00   -36438
0          0
                 Mass ordinate for TOPSOIL = 17016

  144+50.00 EARTH
                 Common Exc      117        226        226   1.00
54007      54007
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         33         45         45   1.00   -36257
90264      90264
             TOPSOIL
                 Common Exc       12         25         25   1.00
4523       4523
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         23         23   1.00
```

```
12541      12541
                  Fill          0          0          0   1.00   -36257
0          0
               Mass ordinate for TOPSOIL = 17064

  145+00.00 EARTH
               Common Exc      113        213        213   1.00
54220      54220
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          53         80         80   1.00   -36124
90344      90344
              TOPSOIL
               Common Exc       12         22         22   1.00
4545       4545
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       17         30         30   1.00
12571      12571
                  Fill          0          0          0   1.00   -36124
0          0
               Mass ordinate for TOPSOIL = 17116

  145+50.00 EARTH
               Common Exc      102        199        199   1.00
54419      54419
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill          72        116        116   1.00   -36041
90460      90460
              TOPSOIL
               Common Exc       11         21         21   1.00
4566       4566
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       20         34         34   1.00
12605      12605
                  Fill          0          0          0   1.00   -36041
0          0
               Mass ordinate for TOPSOIL = 17171

  146+00.00 EARTH
               Common Exc      103        190        190   1.00
54609      54609
              Subgrade Exc       0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         36        100        100   1.00   -35951
90560      90560
             TOPSOIL
                 Common Exc       12         21         21   1.00
4587       4587
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         33         33   1.00
12638      12638
                     Fill          0          0          0   1.00   -35951
0          0
                 Mass ordinate for TOPSOIL = 17225

  146+50.00 EARTH
                 Common Exc      115        202        202   1.00
54811      54811
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         31         62         62   1.00   -35811
90622      90622
             TOPSOIL
                 Common Exc       13         23         23   1.00
4610       4610
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       14         28         28   1.00
12666      12666
                     Fill          0          0          0   1.00   -35811
0          0
                 Mass ordinate for TOPSOIL = 17276

  147+00.00 EARTH
                 Common Exc      160        255        255   1.00
55066      55066
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         30         56         56   1.00   -35612
90678      90678
             TOPSOIL
                 Common Exc       22         32         32   1.00
4642       4642
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11         23         23   1.00
```

```
12689      12689
                  Fill          0          0          0   1.00   -35612
0          0
               Mass ordinate for TOPSOIL = 17331

  147+18.37 EARTH
               Common Exc      157        108        108   1.00
55174      55174
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         47         26         26   1.00   -35530
90704      90704
              TOPSOIL
               Common Exc       22         15         15   1.00
4657       4657
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       12          8          8   1.00
12697      12697
                  Fill          0          0          0   1.00   -35530
0          0
               Mass ordinate for TOPSOIL = 17354

  147+50.00 EARTH
               Common Exc      153        182        182   1.00
55356      55356
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         51         57         57   1.00   -35405
90761      90761
              TOPSOIL
               Common Exc       29         30         30   1.00
4687       4687
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       13         15         15   1.00
12712      12712
                  Fill          0          0          0   1.00   -35405
0          0
               Mass ordinate for TOPSOIL = 17399

  148+00.00 EARTH
               Common Exc      110        243        243   1.00
55599      55599
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         73        115        115   1.00   -35277
90876      90876
             TOPSOIL
                 Common Exc       14         40         40   1.00
4727       4727
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         34         34   1.00
12746      12746
                     Fill          0          0          0   1.00   -35277
0          0
                 Mass ordinate for TOPSOIL = 17473

  148+50.00 EARTH
                 Common Exc      102        196        196   1.00
55795      55795
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        199        252        252   1.00   -35333
91128      91128
             TOPSOIL
                 Common Exc        8         20         20   1.00
4747       4747
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       36         56         56   1.00
12802      12802
                     Fill          0          0          0   1.00   -35333
0          0
                 Mass ordinate for TOPSOIL = 17549

  148+65.04 EARTH
                 Common Exc      107         58         58   1.00
55853      55853
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        202        112        112   1.00   -35387
91240      91240
             TOPSOIL
                 Common Exc        2          3          3   1.00
4750       4750
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       30         18         18   1.00
```

```
12820      12820
                  Fill          0          0          0   1.00   -35387
0          0
               Mass ordinate for TOPSOIL = 17570

  149+00.00 EARTH
               Common Exc      112        142        142   1.00
55995      55995
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        179        247        247   1.00   -35492
91487      91487
              TOPSOIL
               Common Exc       13         10         10   1.00
4760       4760
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       34         41         41   1.00
12861      12861
                  Fill          0          0          0   1.00   -35492
0          0
               Mass ordinate for TOPSOIL = 17621

  149+38.37 EARTH
               Common Exc      119        164        164   1.00
56159      56159
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        195        266        266   1.00   -35594
91753      91753
              TOPSOIL
               Common Exc       15         20         20   1.00
4780       4780
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       34         48         48   1.00
12909      12909
                  Fill          0          0          0   1.00   -35594
0          0
               Mass ordinate for TOPSOIL = 17689

  149+50.00 EARTH
               Common Exc      121         52         52   1.00
56211      56211
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        228         91         91   1.00   -35633
91844      91844
             TOPSOIL
                 Common Exc       14          6          6   1.00
4786       4786
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       35         15         15   1.00
12924      12924
                     Fill          0          0          0   1.00   -35633
0          0
                 Mass ordinate for TOPSOIL = 17710

  150+00.00 EARTH
                 Common Exc      140        242        242   1.00
56453      56453
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        334        520        520   1.00   -35911
92364      92364
             TOPSOIL
                 Common Exc       11         23         23   1.00
4809       4809
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       33         63         63   1.00
12987      12987
                     Fill          0          0          0   1.00   -35911
0          0
                 Mass ordinate for TOPSOIL = 17796

  150+50.00 EARTH
                 Common Exc      123        244        244   1.00
56697      56697
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        538        807        807   1.00   -36474
93171      93171
             TOPSOIL
                 Common Exc        7         17         17   1.00
4826       4826
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       44         71         71   1.00
```

```
13058      13058
                Fill          0          0          0   1.00   -36474
0          0
          Mass ordinate for TOPSOIL = 17884

  151+00.00 EARTH
               Common Exc      115        220        220   1.00
56917      56917
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        800       1239       1239   1.00   -37493
94410      94410
             TOPSOIL
               Common Exc        5         11         11   1.00
4837       4837
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       56         93         93   1.00
13151      13151
                Fill          0          0          0   1.00   -37493
0          0
          Mass ordinate for TOPSOIL = 17988

  151+50.00 EARTH
               Common Exc      111        209        209   1.00
57126      57126
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        709       1397       1397   1.00   -38681
95807      95807
             TOPSOIL
               Common Exc        5          9          9   1.00
4846       4846
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       54        102        102   1.00
13253      13253
                Fill          0          0          0   1.00   -38681
0          0
          Mass ordinate for TOPSOIL = 18099

  151+74.00 EARTH
               Common Exc      108         97         97   1.00
57223      57223
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        694        624        624   1.00   -39208
96431      96431
             TOPSOIL
                 Common Exc        4          4          4   1.00
4850       4850
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       55         48         48   1.00
13301      13301
                     Fill          0          0          0   1.00   -39208
0          0
                 Mass ordinate for TOPSOIL = 18151

  152+00.00 EARTH
                 Common Exc      107        104        104   1.00
57327      57327
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        692        667        667   1.00   -39771
97098      97098
             TOPSOIL
                 Common Exc        4          4          4   1.00
4854       4854
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       56         53         53   1.00
13354      13354
                     Fill          0          0          0   1.00   -39771
0          0
                 Mass ordinate for TOPSOIL = 18208

  152+50.00 EARTH
                 Common Exc       93        185        185   1.00
57512      57512
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        700       1289       1289   1.00   -40875
98387      98387
             TOPSOIL
                 Common Exc        4          7          7   1.00
4861       4861
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       61        108        108   1.00
```

```
13462      13462
                  Fill          0          0          0   1.00   -40875
0          0
               Mass ordinate for TOPSOIL = 18323

  153+00.00 EARTH
               Common Exc       86        166        166   1.00
57678      57678
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         810       1398       1398   1.00   -42107
99785      99785
              TOPSOIL
               Common Exc        3          6          6   1.00
4867       4867
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       65        117        117   1.00
13579      13579
                  Fill          0          0          0   1.00   -42107
0          0
               Mass ordinate for TOPSOIL = 18446

  153+50.00 EARTH
               Common Exc       90        163        163   1.00
57841      57841
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         708       1406       1406   1.00   -43350
101191     101191
              TOPSOIL
               Common Exc        3          6          6   1.00
4873       4873
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       68        123        123   1.00
13702      13702
                  Fill          0          0          0   1.00   -43350
0          0
               Mass ordinate for TOPSOIL = 18575

  154+00.00 EARTH
               Common Exc       90        167        167   1.00
58008      58008
             Subgrade Exc        0          0          0   1.00
0          0
```

```
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill      670       1276       1276   1.00   -44459
102467     102467
            TOPSOIL
              Common Exc        4          6          6   1.00
4879       4879
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       68        126        126   1.00
13828      13828
                   Fill        0          0          0   1.00   -44459
0          0
               Mass ordinate for TOPSOIL = 18707

  154+50.00 EARTH
              Common Exc       85        162        162   1.00
58170      58170
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill      734       1300       1300   1.00   -45597
103767     103767
            TOPSOIL
              Common Exc        3          6          6   1.00
4885       4885
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       68        126        126   1.00
13954      13954
                   Fill        0          0          0   1.00   -45597
0          0
               Mass ordinate for TOPSOIL = 18839

  155+00.00 EARTH
              Common Exc       80        153        153   1.00
58323      58323
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill      831       1449       1449   1.00   -46893
105216     105216
            TOPSOIL
              Common Exc        3          6          6   1.00
4891       4891
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       70        128        128   1.00
```

```
14082      14082
                Fill          0          0          0   1.00   -46893
0          0
          Mass ordinate for TOPSOIL = 18973

  155+50.00 EARTH
               Common Exc       81        149        149   1.00
58472      58472
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         842       1549       1549   1.00   -48293
106765     106765
             TOPSOIL
               Common Exc        3          6          6   1.00
4897       4897
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       66        126        126   1.00
14208      14208
                Fill          0          0          0   1.00   -48293
0          0
          Mass ordinate for TOPSOIL = 19105

  156+00.00 EARTH
               Common Exc       74        144        144   1.00
58616      58616
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         631       1364       1364   1.00   -49513
108129     108129
             TOPSOIL
               Common Exc        3          6          6   1.00
4903       4903
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       54        111        111   1.00
14319      14319
                Fill          0          0          0   1.00   -49513
0          0
          Mass ordinate for TOPSOIL = 19222

  156+50.00 EARTH
               Common Exc       71        134        134   1.00
58750      58750
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        265        830        830   1.00   -50209
108959     108959
             TOPSOIL
                 Common Exc        4          6          6   1.00
4909       4909
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       42         89         89   1.00
14408      14408
                     Fill          0          0          0   1.00   -50209
0          0
                 Mass ordinate for TOPSOIL = 19317

  157+00.00 EARTH
                 Common Exc       74        134        134   1.00
58884      58884
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         95        333        333   1.00   -50408
109292     109292
             TOPSOIL
                 Common Exc        7         10         10   1.00
4919       4919
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       26         63         63   1.00
14471      14471
                     Fill          0          0          0   1.00   -50408
0          0
                 Mass ordinate for TOPSOIL = 19390

  157+50.00 EARTH
                 Common Exc       70        133        133   1.00
59017      59017
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        185        259        259   1.00   -50534
109551     109551
             TOPSOIL
                 Common Exc        4         10         10   1.00
4929       4929
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       31         53         53   1.00
```

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14524      14524
                  Fill          0          0          0   1.00   -50534
0          0
               Mass ordinate for TOPSOIL = 19453

  158+00.00 EARTH
               Common Exc       73        132        132   1.00
59149      59149
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         185        343        343   1.00   -50745
109894     109894
              TOPSOIL
               Common Exc        4          7          7   1.00
4936       4936
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       31         57         57   1.00
14581      14581
                  Fill          0          0          0   1.00   -50745
0          0
               Mass ordinate for TOPSOIL = 19517

  158+50.00 EARTH
               Common Exc       74        136        136   1.00
59285      59285
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         206        362        362   1.00   -50971
110256     110256
              TOPSOIL
               Common Exc        4          7          7   1.00
4943       4943
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       32         58         58   1.00
14639      14639
                  Fill          0          0          0   1.00   -50971
0          0
               Mass ordinate for TOPSOIL = 19582

  159+00.00 EARTH
               Common Exc       84        146        146   1.00
59431      59431
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        183        360        360   1.00   -51185
110616     110616
             TOPSOIL
                 Common Exc        5          8          8   1.00
4951       4951
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         56         56   1.00
14695      14695
                     Fill          0          0          0   1.00   -51185
0          0
                 Mass ordinate for TOPSOIL = 19646

  159+50.00 EARTH
                 Common Exc       92        163        163   1.00
59594      59594
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         79        243        243   1.00   -51265
110859     110859
             TOPSOIL
                 Common Exc        6         10         10   1.00
4961       4961
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         49         49   1.00
14744      14744
                     Fill          0          0          0   1.00   -51265
0          0
                 Mass ordinate for TOPSOIL = 19705

  160+00.00 EARTH
                 Common Exc       89        168        168   1.00
59762      59762
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        105        170        170   1.00   -51267
111029     111029
             TOPSOIL
                 Common Exc        5         10         10   1.00
4971       4971
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         44         44   1.00
```

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14788      14788
                  Fill          0          0          0   1.00   -51267
0          0
               Mass ordinate for TOPSOIL = 19759

  160+50.00 EARTH
               Common Exc       89        165        165   1.00
59927      59927
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         112        201        201   1.00   -51303
111230     111230
             TOPSOIL
               Common Exc        5          9          9   1.00
4980       4980
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         45         45   1.00
14833      14833
                  Fill          0          0          0   1.00   -51303
0          0
               Mass ordinate for TOPSOIL = 19813

  161+00.00 EARTH
               Common Exc       87        163        163   1.00
60090      60090
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         99        195        195   1.00   -51335
111425     111425
             TOPSOIL
               Common Exc        5          9          9   1.00
4989       4989
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       24         45         45   1.00
14878      14878
                  Fill          0          0          0   1.00   -51335
0          0
               Mass ordinate for TOPSOIL = 19867

  161+50.00 EARTH
               Common Exc      108        181        181   1.00
60271      60271
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        107        191        191   1.00   -51345
111616     111616
             TOPSOIL
                 Common Exc        2          6          6   1.00
4995       4995
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12         33         33   1.00
14911      14911
                     Fill          0          0          0   1.00   -51345
0          0
                 Mass ordinate for TOPSOIL = 19906

  161+80.03 EARTH
                 Common Exc       95        113        113   1.00
60384      60384
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        213        178        178   1.00   -51410
111794     111794
             TOPSOIL
                 Common Exc        3          3          3   1.00
4998       4998
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       34         26         26   1.00
14937      14937
                     Fill          0          0          0   1.00   -51410
0          0
                 Mass ordinate for TOPSOIL = 19935

  162+00.00 EARTH
                 Common Exc       85         67         67   1.00
60451      60451
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        259        175        175   1.00   -51518
111969     111969
             TOPSOIL
                 Common Exc        5          3          3   1.00
5001       5001
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       40         27         27   1.00
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14964      14964
                  Fill          0          0          0   1.00   -51518
0          0
               Mass ordinate for TOPSOIL = 19965

  162+50.00 EARTH
               Common Exc       79        152        152   1.00
60603      60603
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         217        441        441   1.00   -51807
112410     112410
              TOPSOIL
               Common Exc       10         14         14   1.00
5015       5015
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       40         74         74   1.00
15038      15038
                  Fill          0          0          0   1.00   -51807
0          0
               Mass ordinate for TOPSOIL = 20053

  162+53.36 EARTH
               Common Exc       79         10         10   1.00
60613      60613
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         216         27         27   1.00   -51824
112437     112437
              TOPSOIL
               Common Exc       10          1          1   1.00
5016       5016
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       40          5          5   1.00
15043      15043
                  Fill          0          0          0   1.00   -51824
0          0
               Mass ordinate for TOPSOIL = 20059

  163+00.00 EARTH
               Common Exc       79        136        136   1.00
60749      60749
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        263        414        414   1.00   -52102
112851     112851
             TOPSOIL
                 Common Exc        6         14         14   1.00
5030       5030
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       42         71         71   1.00
15114      15114
                     Fill          0          0          0   1.00   -52102
0          0
                 Mass ordinate for TOPSOIL = 20144

  163+50.00 EARTH
                 Common Exc       81        148        148   1.00
60897      60897
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        260        484        484   1.00   -52438
113335     113335
             TOPSOIL
                 Common Exc        5         10         10   1.00
5040       5040
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       42         78         78   1.00
15192      15192
                     Fill          0          0          0   1.00   -52438
0          0
                 Mass ordinate for TOPSOIL = 20232

  164+00.00 EARTH
                 Common Exc       88        156        156   1.00
61053      61053
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        242        465        465   1.00   -52747
113800     113800
             TOPSOIL
                 Common Exc        6         10         10   1.00
5050       5050
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       42         78         78   1.00
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```
15270      15270
                  Fill          0          0          0   1.00   -52747
0          0
               Mass ordinate for TOPSOIL = 20320

  164+00.03 EARTH
               Common Exc       88          0          0   1.00
61053      61053
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         242          0          0   1.00   -52747
113800     113800
             TOPSOIL
               Common Exc        6          0          0   1.00
5050       5050
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       42          0          0   1.00
15270      15270
                  Fill          0          0          0   1.00   -52747
0          0
               Mass ordinate for TOPSOIL = 20320

  164+50.00 EARTH
               Common Exc      131        203        203   1.00
61256      61256
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         103        319        319   1.00   -52863
114119     114119
             TOPSOIL
               Common Exc       17         21         21   1.00
5071       5071
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       23         60         60   1.00
15330      15330
                  Fill          0          0          0   1.00   -52863
0          0
               Mass ordinate for TOPSOIL = 20401

  165+00.00 EARTH
               Common Exc      114        227        227   1.00
61483      61483
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        125        211        211   1.00   -52847
114330     114330
             TOPSOIL
                 Common Exc        9         24         24   1.00
5095       5095
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         46         46   1.00
15376      15376
                     Fill          0          0          0   1.00   -52847
0          0
                 Mass ordinate for TOPSOIL = 20471

  165+50.00 EARTH
                 Common Exc      103        201        201   1.00
61684      61684
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        154        258        258   1.00   -52904
114588     114588
             TOPSOIL
                 Common Exc        1          9          9   1.00
5104       5104
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       35         57         57   1.00
15433      15433
                     Fill          0          0          0   1.00   -52904
0          0
                 Mass ordinate for TOPSOIL = 20537

  166+00.00 EARTH
                 Common Exc      111        198        198   1.00
61882      61882
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        107        242        242   1.00   -52948
114830     114830
             TOPSOIL
                 Common Exc        4          5          5   1.00
5109       5109
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       26         56         56   1.00
```

```
15489      15489
                  Fill          0          0          0   1.00   -52948
0          0
               Mass ordinate for TOPSOIL = 20598

  166+33.00 EARTH
               Common Exc      141        154        154   1.00
62036      62036
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         62        103        103   1.00   -52897
114933     114933
             TOPSOIL
               Common Exc       18         13         13   1.00
5122       5122
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         28         28   1.00
15517      15517
                  Fill          0          0          0   1.00   -52897
0          0
               Mass ordinate for TOPSOIL = 20639

  166+50.00 EARTH
               Common Exc      171         98         98   1.00
62134      62134
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         60         38         38   1.00   -52837
114971     114971
             TOPSOIL
               Common Exc       28         14         14   1.00
5136       5136
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         13         13   1.00
15530      15530
                  Fill          0          0          0   1.00   -52837
0          0
               Mass ordinate for TOPSOIL = 20666

  167+00.00 EARTH
               Common Exc      139        287        287   1.00
62421      62421
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         94        143        143   1.00   -52693
115114     115114
             TOPSOIL
                 Common Exc        9         34         34   1.00
5170       5170
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         35         35   1.00
15565      15565
                     Fill          0          0          0   1.00   -52693
0          0
                 Mass ordinate for TOPSOIL = 20735

  167+50.00 EARTH
                 Common Exc      150        268        268   1.00
62689      62689
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         66        148        148   1.00   -52573
115262     115262
             TOPSOIL
                 Common Exc       15         22         22   1.00
5192       5192
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11         27         27   1.00
15592      15592
                     Fill          0          0          0   1.00   -52573
0          0
                 Mass ordinate for TOPSOIL = 20784

  168+00.00 EARTH
                 Common Exc      167        294        294   1.00
62983      62983
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         44        102        102   1.00   -52381
115364     115364
             TOPSOIL
                 Common Exc       16         29         29   1.00
5221       5221
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         19         19   1.00
```

```
15611      15611
                  Fill          0          0          0   1.00   -52381
0          0
               Mass ordinate for TOPSOIL = 20832

  168+50.00 EARTH
               Common Exc      178        319        319   1.00
63302      63302
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         21         60         60   1.00   -52122
115424     115424
             TOPSOIL
               Common Exc       14         28         28   1.00
5249       5249
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        7         16         16   1.00
15627      15627
                  Fill          0          0          0   1.00   -52122
0          0
               Mass ordinate for TOPSOIL = 20876

  169+00.00 EARTH
               Common Exc      191        342        342   1.00
63644      63644
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill          9         28         28   1.00   -51808
115452     115452
             TOPSOIL
               Common Exc       14         26         26   1.00
5275       5275
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        5         11         11   1.00
15638      15638
                  Fill          0          0          0   1.00   -51808
0          0
               Mass ordinate for TOPSOIL = 20913

  169+50.00 EARTH
               Common Exc      176        340        340   1.00
63984      63984
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         20         27         27   1.00   -51495
115479     115479
             TOPSOIL
                 Common Exc       17         29         29   1.00
5304       5304
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         13         13   1.00
15651      15651
                     Fill          0          0          0   1.00   -51495
0          0
                 Mass ordinate for TOPSOIL = 20955

  170+00.00 EARTH
                 Common Exc      160        311        311   1.00
64295      64295
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         55         69         69   1.00   -51253
115548     115548
             TOPSOIL
                 Common Exc       11         26         26   1.00
5330       5330
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11         19         19   1.00
15670      15670
                     Fill          0          0          0   1.00   -51253
0          0
                 Mass ordinate for TOPSOIL = 21000

  170+50.00 EARTH
                 Common Exc      125        264        264   1.00
64559      64559
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         69        115        115   1.00   -51104
115663     115663
             TOPSOIL
                 Common Exc       11         20         20   1.00
5350       5350
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       22         31         31   1.00
```

```
15701      15701
                  Fill          0          0          0   1.00   -51104
0          0
               Mass ordinate for TOPSOIL = 21051

  171+00.00 EARTH
               Common Exc      130        236        236   1.00
64795      64795
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         61        120        120   1.00   -50988
115783     115783
             TOPSOIL
               Common Exc       10         19         19   1.00
5369       5369
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         39         39   1.00
15740      15740
                  Fill          0          0          0   1.00   -50988
0          0
               Mass ordinate for TOPSOIL = 21109

  171+50.00 EARTH
               Common Exc      148        257        257   1.00
65052      65052
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         20         75         75   1.00   -50806
115858     115858
             TOPSOIL
               Common Exc       11         19         19   1.00
5388       5388
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       12         30         30   1.00
15770      15770
                  Fill          0          0          0   1.00   -50806
0          0
               Mass ordinate for TOPSOIL = 21158

  172+00.00 EARTH
               Common Exc      158        283        283   1.00
65335      65335
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         15         32         32   1.00   -50555
115890     115890
             TOPSOIL
                 Common Exc       18         27         27   1.00
5415       5415
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7         18         18   1.00
15788      15788
                     Fill          0          0          0   1.00   -50555
0          0
                 Mass ordinate for TOPSOIL = 21203

  172+50.00 EARTH
                 Common Exc      147        282        282   1.00
65617      65617
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         22         34         34   1.00   -50307
115924     115924
             TOPSOIL
                 Common Exc       19         34         34   1.00
5449       5449
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         15         15   1.00
15803      15803
                     Fill          0          0          0   1.00   -50307
0          0
                 Mass ordinate for TOPSOIL = 21252

  173+00.00 EARTH
                 Common Exc      137        263        263   1.00
65880      65880
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         24         43         43   1.00   -50087
115967     115967
             TOPSOIL
                 Common Exc       19         35         35   1.00
5484       5484
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         17         17   1.00
```

```
15820      15820
                Fill          0          0          0   1.00   -50087
0          0
          Mass ordinate for TOPSOIL = 21304

  173+50.00 EARTH
               Common Exc      146        262        262   1.00
66142      66142
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         31         51         51   1.00   -49876
116018     116018
             TOPSOIL
               Common Exc       14         31         31   1.00
5515       5515
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       13         20         20   1.00
15840      15840
                Fill          0          0          0   1.00   -49876
0          0
          Mass ordinate for TOPSOIL = 21355

  174+00.00 EARTH
               Common Exc      115        242        242   1.00
66384      66384
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         40         66         66   1.00   -49700
116084     116084
             TOPSOIL
               Common Exc       12         24         24   1.00
5539       5539
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       16         27         27   1.00
15867      15867
                Fill          0          0          0   1.00   -49700
0          0
          Mass ordinate for TOPSOIL = 21406

  174+50.00 EARTH
               Common Exc      106        205        205   1.00
66589      66589
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         57         90         90   1.00   -49585
116174     116174
             TOPSOIL
                 Common Exc       12         22         22   1.00
5561       5561
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         32         32   1.00
15899      15899
                     Fill          0          0          0   1.00   -49585
0          0
                 Mass ordinate for TOPSOIL = 21460

  175+00.00 EARTH
                 Common Exc      105        195        195   1.00
66784      66784
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         74        121        121   1.00   -49511
116295     116295
             TOPSOIL
                 Common Exc       12         22         22   1.00
5583       5583
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         37         37   1.00
15936      15936
                     Fill          0          0          0   1.00   -49511
0          0
                 Mass ordinate for TOPSOIL = 21519

  175+50.00 EARTH
                 Common Exc       97        187        187   1.00
66971      66971
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         93        155        155   1.00   -49479
116450     116450
             TOPSOIL
                 Common Exc        8         19         19   1.00
5602       5602
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         42         42   1.00
```

```
15978      15978
                  Fill          0          0          0   1.00   -49479
0          0
               Mass ordinate for TOPSOIL = 21580

  176+00.00 EARTH
               Common Exc       97        180        180   1.00
67151      67151
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         104        182        182   1.00   -49481
116632     116632
              TOPSOIL
               Common Exc        5         12         12   1.00
5614       5614
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       27         47         47   1.00
16025      16025
                  Fill          0          0          0   1.00   -49481
0          0
               Mass ordinate for TOPSOIL = 21639

  176+50.00 EARTH
               Common Exc      107        189        189   1.00
67340      67340
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         128        215        215   1.00   -49507
116847     116847
              TOPSOIL
               Common Exc        4          8          8   1.00
5622       5622
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       28         51         51   1.00
16076      16076
                  Fill          0          0          0   1.00   -49507
0          0
               Mass ordinate for TOPSOIL = 21698

  177+00.00 EARTH
               Common Exc      105        196        196   1.00
67536      67536
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        143        251        251   1.00   -49562
117098     117098
             TOPSOIL
                 Common Exc        3          6          6   1.00
5628       5628
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         53         53   1.00
16129      16129
                     Fill          0          0          0   1.00   -49562
0          0
                 Mass ordinate for TOPSOIL = 21757

  177+50.00 EARTH
                 Common Exc      104        194        194   1.00
67730      67730
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         89        215        215   1.00   -49583
117313     117313
             TOPSOIL
                 Common Exc        3          6          6   1.00
5634       5634
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         49         49   1.00
16178      16178
                     Fill          0          0          0   1.00   -49583
0          0
                 Mass ordinate for TOPSOIL = 21812

  178+00.00 EARTH
                 Common Exc      130        217        217   1.00
67947      67947
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         18         99         99   1.00   -49465
117412     117412
             TOPSOIL
                 Common Exc       11         13         13   1.00
5647       5647
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12         33         33   1.00
```

```
16211      16211
                Fill          0          0          0   1.00   -49465
0          0
          Mass ordinate for TOPSOIL = 21858

  178+50.00 EARTH
               Common Exc      110        222        222   1.00
68169      68169
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         90        100        100   1.00   -49343
117512     117512
             TOPSOIL
               Common Exc        9         19         19   1.00
5666       5666
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         30         30   1.00
16241      16241
                Fill          0          0          0   1.00   -49343
0          0
          Mass ordinate for TOPSOIL = 21907

  179+00.00 EARTH
               Common Exc      115        208        208   1.00
68377      68377
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         87        164        164   1.00   -49299
117676     117676
             TOPSOIL
               Common Exc        7         15         15   1.00
5681       5681
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       21         38         38   1.00
16279      16279
                Fill          0          0          0   1.00   -49299
0          0
          Mass ordinate for TOPSOIL = 21960

  179+36.00 EARTH
               Common Exc      112        151        151   1.00
68528      68528
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        101        125        125   1.00   -49273
117801     117801
             TOPSOIL
                 Common Exc        5          8          8   1.00
5689       5689
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         29         29   1.00
16308      16308
                     Fill          0          0          0   1.00   -49273
0          0
                 Mass ordinate for TOPSOIL = 21997

  179+50.00 EARTH
                 Common Exc      115         59         59   1.00
68587      68587
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        107         54         54   1.00   -49268
117855     117855
             TOPSOIL
                 Common Exc        5          3          3   1.00
5692       5692
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         12         12   1.00
16320      16320
                     Fill          0          0          0   1.00   -49268
0          0
                 Mass ordinate for TOPSOIL = 22012

  180+00.00 EARTH
                 Common Exc      125        222        222   1.00
68809      68809
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        137        226        226   1.00   -49272
118081     118081
             TOPSOIL
                 Common Exc        4          8          8   1.00
5700       5700
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         47         47   1.00
```

```
16367      16367
                  Fill          0          0          0   1.00   -49272
0          0
               Mass ordinate for TOPSOIL = 22067

  180+50.00 EARTH
               Common Exc      125        231        231   1.00
69040      69040
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        140        256        256   1.00   -49297
118337     118337
              TOPSOIL
               Common Exc        5          8          8   1.00
5708       5708
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       28         51         51   1.00
16418      16418
                  Fill          0          0          0   1.00   -49297
0          0
               Mass ordinate for TOPSOIL = 22126

  181+00.00 EARTH
               Common Exc      140        245        245   1.00
69285      69285
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill        121        242        242   1.00   -49294
118579     118579
              TOPSOIL
               Common Exc       13         17         17   1.00
5725       5725
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       21         45         45   1.00
16463      16463
                  Fill          0          0          0   1.00   -49294
0          0
               Mass ordinate for TOPSOIL = 22188

  181+50.00 EARTH
               Common Exc      144        263        263   1.00
69548      69548
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        110        214        214   1.00   -49245
118793     118793
             TOPSOIL
                 Common Exc        5         17         17   1.00
5742       5742
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         39         39   1.00
16502      16502
                     Fill          0          0          0   1.00   -49245
0          0
                 Mass ordinate for TOPSOIL = 22244

  182+00.00 EARTH
                 Common Exc      143        266        266   1.00
69814      69814
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         98        193        193   1.00   -49172
118986     118986
             TOPSOIL
                 Common Exc        2          6          6   1.00
5748       5748
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       25         43         43   1.00
16545      16545
                     Fill          0          0          0   1.00   -49172
0          0
                 Mass ordinate for TOPSOIL = 22293

  182+50.00 EARTH
                 Common Exc      152        273        273   1.00
70087      70087
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        114        196        196   1.00   -49095
119182     119182
             TOPSOIL
                 Common Exc        3          5          5   1.00
5753       5753
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         48         48   1.00
```

```
16593      16593
                Fill          0          0          0   1.00   -49095
0          0
          Mass ordinate for TOPSOIL = 22346

  183+00.00 EARTH
               Common Exc      160        289        289   1.00
70376      70376
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         83        182        182   1.00   -48988
119364     119364
             TOPSOIL
               Common Exc       12         14         14   1.00
5767       5767
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         44         44   1.00
16637      16637
                Fill          0          0          0   1.00   -48988
0          0
          Mass ordinate for TOPSOIL = 22404

  183+50.00 EARTH
               Common Exc      146        283        283   1.00
70659      70659
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        105        174        174   1.00   -48879
119538     119538
             TOPSOIL
               Common Exc        9         19         19   1.00
5786       5786
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       27         44         44   1.00
16681      16681
                Fill          0          0          0   1.00   -48879
0          0
          Mass ordinate for TOPSOIL = 22467

  184+00.00 EARTH
               Common Exc      123        249        249   1.00
70908      70908
             Subgrade Exc        0          0          0   1.00
0          0
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```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          2         99         99   1.00   -48729
119637     119637
             TOPSOIL
                 Common Exc        2         10         10   1.00
5796       5796
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0         25         25   1.00
16706      16706
                     Fill          0          0          0   1.00   -48729
0          0
                 Mass ordinate for TOPSOIL = 22502

  184+50.00 EARTH
                 Common Exc      148        251        251   1.00
71159      71159
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         23         23         23   1.00   -48501
119660     119660
             TOPSOIL
                 Common Exc        2          4          4   1.00
5800       5800
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11         10         10   1.00
16716      16716
                     Fill          0          0          0   1.00   -48501
0          0
                 Mass ordinate for TOPSOIL = 22516

  185+00.00 EARTH
                 Common Exc      154        280        280   1.00
71439      71439
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         74         90         90   1.00   -48311
119750     119750
             TOPSOIL
                 Common Exc       19         19         19   1.00
5819       5819
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         28         28   1.00
```

```
16744      16744
                Fill          0          0          0   1.00   -48311
0          0
     Mass ordinate for TOPSOIL = 22563

  185+50.00 EARTH
               Common Exc      127        260        260   1.00
71699      71699
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         98        159        159   1.00   -48210
119909     119909
             TOPSOIL
               Common Exc       11         28         28   1.00
5847       5847
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         41         41   1.00
16785      16785
                Fill          0          0          0   1.00   -48210
0          0
     Mass ordinate for TOPSOIL = 22632

  186+00.00 EARTH
               Common Exc      107        217        217   1.00
71916      71916
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         83        168        168   1.00   -48161
120077     120077
             TOPSOIL
               Common Exc        8         18         18   1.00
5865       5865
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       24         45         45   1.00
16830      16830
                Fill          0          0          0   1.00   -48161
0          0
     Mass ordinate for TOPSOIL = 22695

  186+05.98 EARTH
               Common Exc      107         24         24   1.00
71940      71940
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         80         18         18   1.00   -48155
120095     120095
             TOPSOIL
                 Common Exc        8          2          2   1.00
5867       5867
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24          5          5   1.00
16835      16835
                     Fill          0          0          0   1.00   -48155
0          0
                 Mass ordinate for TOPSOIL = 22702

  186+50.00 EARTH
                 Common Exc      101        170        170   1.00
72110      72110
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         79        130        130   1.00   -48115
120225     120225
             TOPSOIL
                 Common Exc        7         12         12   1.00
5879       5879
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       25         40         40   1.00
16875      16875
                     Fill          0          0          0   1.00   -48115
0          0
                 Mass ordinate for TOPSOIL = 22754

  186+87.04 EARTH
                 Common Exc       99        137        137   1.00
72247      72247
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         81        110        110   1.00   -48088
120335     120335
             TOPSOIL
                 Common Exc        8         10         10   1.00
5889       5889
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         34         34   1.00
```

```
16909      16909
                Fill          0          0          0   1.00   -48088
0          0
          Mass ordinate for TOPSOIL = 22798

  187+00.00 EARTH
               Common Exc       98         47         47   1.00
72294      72294
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          86         40         40   1.00   -48081
120375     120375
             TOPSOIL
               Common Exc        8          4          4   1.00
5893       5893
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       25         12         12   1.00
16921      16921
                Fill          0          0          0   1.00   -48081
0          0
          Mass ordinate for TOPSOIL = 22814

  187+50.00 EARTH
               Common Exc      104        187        187   1.00
72481      72481
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          89        162        162   1.00   -48056
120537     120537
             TOPSOIL
               Common Exc       13         19         19   1.00
5912       5912
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       21         43         43   1.00
16964      16964
                Fill          0          0          0   1.00   -48056
0          0
          Mass ordinate for TOPSOIL = 22876

  188+00.00 EARTH
               Common Exc       99        188        188   1.00
72669      72669
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        103        178        178   1.00   -48046
120715     120715
             TOPSOIL
                 Common Exc        8         19         19   1.00
5931       5931
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       26         44         44   1.00
17008      17008
                     Fill          0          0          0   1.00   -48046
0          0
                 Mass ordinate for TOPSOIL = 22939

  188+50.00 EARTH
                 Common Exc      109        193        193   1.00
72862      72862
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         57        148        148   1.00   -48001
120863     120863
             TOPSOIL
                 Common Exc       13         19         19   1.00
5950       5950
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         41         41   1.00
17049      17049
                     Fill          0          0          0   1.00   -48001
0          0
                 Mass ordinate for TOPSOIL = 22999

  189+00.00 EARTH
                 Common Exc      113        206        206   1.00
73068      73068
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         57        106        106   1.00   -47901
120969     120969
             TOPSOIL
                 Common Exc       13         24         24   1.00
5974       5974
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         33         33   1.00
```

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17082      17082
                  Fill          0          0          0   1.00   -47901
0          0
               Mass ordinate for TOPSOIL = 23056

  189+50.00 EARTH
               Common Exc      116        212        212   1.00
73280      73280
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         78        125        125   1.00   -47814
121094     121094
              TOPSOIL
               Common Exc       14         25         25   1.00
5999       5999
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         35         35   1.00
17117      17117
                  Fill          0          0          0   1.00   -47814
0          0
               Mass ordinate for TOPSOIL = 23116

  190+00.00 EARTH
               Common Exc      130        228        228   1.00
73508      73508
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         56        124        124   1.00   -47710
121218     121218
              TOPSOIL
               Common Exc        1         14         14   1.00
6013       6013
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       12         30         30   1.00
17147      17147
                  Fill          0          0          0   1.00   -47710
0          0
               Mass ordinate for TOPSOIL = 23160

  190+04.00 EARTH
               Common Exc      130         19         19   1.00
73527      73527
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         56          8          8   1.00   -47699
121226     121226
             TOPSOIL
                 Common Exc        1          0          0   1.00
6013       6013
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12          2          2   1.00
17149      17149
                     Fill          0          0          0   1.00   -47699
0          0
                 Mass ordinate for TOPSOIL = 23162

  190+50.00 EARTH
                 Common Exc      153        241        241   1.00
73768      73768
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         96        129        129   1.00   -47587
121355     121355
             TOPSOIL
                 Common Exc       16         14         14   1.00
6027       6027
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         28         28   1.00
17177      17177
                     Fill          0          0          0   1.00   -47587
0          0
                 Mass ordinate for TOPSOIL = 23204

  191+00.00 EARTH
                 Common Exc      184        312        312   1.00
74080      74080
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         59        144        144   1.00   -47419
121499     121499
             TOPSOIL
                 Common Exc       22         35         35   1.00
6062       6062
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         33         33   1.00
```

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17210      17210
                  Fill          0          0          0   1.00   -47419
0          0
               Mass ordinate for TOPSOIL = 23272

  191+50.00 EARTH
               Common Exc      161        319        319   1.00
74399      74399
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         76        125        125   1.00   -47225
121624     121624
              TOPSOIL
               Common Exc       19         38         38   1.00
6100       6100
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         32         32   1.00
17242      17242
                  Fill          0          0          0   1.00   -47225
0          0
               Mass ordinate for TOPSOIL = 23342

  192+00.00 EARTH
               Common Exc      141        280        280   1.00
74679      74679
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         97        160        160   1.00   -47105
121784     121784
              TOPSOIL
               Common Exc        9         26         26   1.00
6126       6126
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       22         39         39   1.00
17281      17281
                  Fill          0          0          0   1.00   -47105
0          0
               Mass ordinate for TOPSOIL = 23407

  192+50.00 EARTH
               Common Exc      155        274        274   1.00
74953      74953
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        100        182        182   1.00   -47013
121966     121966
             TOPSOIL
                 Common Exc       10         18         18   1.00
6144       6144
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         40         40   1.00
17321      17321
                     Fill          0          0          0   1.00   -47013
0          0
                 Mass ordinate for TOPSOIL = 23465

  193+00.00 EARTH
                 Common Exc      193        322        322   1.00
75275      75275
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         13        105        105   1.00   -46796
122071     122071
             TOPSOIL
                 Common Exc        4         13         13   1.00
6157       6157
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         28         28   1.00
17349      17349
                     Fill          0          0          0   1.00   -46796
0          0
                 Mass ordinate for TOPSOIL = 23506

  193+50.00 EARTH
                 Common Exc      177        343        343   1.00
75618      75618
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1         13         13   1.00   -46466
122084     122084
             TOPSOIL
                 Common Exc        0          4          4   1.00
6161       6161
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          8          8   1.00
```

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17357      17357
                  Fill          0          0          0   1.00   -46466
0          0
               Mass ordinate for TOPSOIL = 23518

  194+00.00 EARTH
               Common Exc      157        309        309   1.00
75927      75927
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         35         33         33   1.00   -46190
122117     122117
              TOPSOIL
               Common Exc       13         12         12   1.00
6173       6173
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       11         10         10   1.00
17367      17367
                  Fill          0          0          0   1.00   -46190
0          0
               Mass ordinate for TOPSOIL = 23540

  194+50.00 EARTH
               Common Exc      146        281        281   1.00
76208      76208
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         38         68         68   1.00   -45977
122185     122185
              TOPSOIL
               Common Exc       10         21         21   1.00
6194       6194
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         23         23   1.00
17390      17390
                  Fill          0          0          0   1.00   -45977
0          0
               Mass ordinate for TOPSOIL = 23584

  195+00.00 EARTH
               Common Exc      133        258        258   1.00
76466      76466
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         56         87         87   1.00   -45806
122272     122272
             TOPSOIL
                 Common Exc        7         16         16   1.00
6210       6210
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         30         30   1.00
17420      17420
                     Fill          0          0          0   1.00   -45806
0          0
                 Mass ordinate for TOPSOIL = 23630

  195+50.00 EARTH
                 Common Exc      143        256        256   1.00
76722      76722
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         59        106        106   1.00   -45656
122378     122378
             TOPSOIL
                 Common Exc       10         16         16   1.00
6226       6226
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         31         31   1.00
17451      17451
                     Fill          0          0          0   1.00   -45656
0          0
                 Mass ordinate for TOPSOIL = 23677

  196+00.00 EARTH
                 Common Exc      134        256        256   1.00
76978      76978
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         63        113        113   1.00   -45513
122491     122491
             TOPSOIL
                 Common Exc       11         19         19   1.00
6245       6245
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       19         32         32   1.00
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17483      17483
                Fill          0          0          0   1.00   -45513
0          0
          Mass ordinate for TOPSOIL = 23728

  196+50.00 EARTH
               Common Exc      128        243        243   1.00
77221      77221
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         74        127        127   1.00   -45397
122618     122618
             TOPSOIL
               Common Exc       11         20         20   1.00
6265       6265
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       20         36         36   1.00
17519      17519
                Fill          0          0          0   1.00   -45397
0          0
          Mass ordinate for TOPSOIL = 23784

  197+00.00 EARTH
               Common Exc      114        224        224   1.00
77445      77445
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill        102        163        163   1.00   -45336
122781     122781
             TOPSOIL
               Common Exc        5         15         15   1.00
6280       6280
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       24         41         41   1.00
17560      17560
                Fill          0          0          0   1.00   -45336
0          0
          Mass ordinate for TOPSOIL = 23840

  197+50.00 EARTH
               Common Exc      115        212        212   1.00
77657      77657
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         99        186        186   1.00   -45310
122967     122967
             TOPSOIL
                 Common Exc        6         10         10   1.00
6290       6290
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         44         44   1.00
17604      17604
                     Fill          0          0          0   1.00   -45310
0          0
                 Mass ordinate for TOPSOIL = 23894

  198+00.00 EARTH
                 Common Exc      119        217        217   1.00
77874      77874
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        118        201        201   1.00   -45294
123168     123168
             TOPSOIL
                 Common Exc        6         11         11   1.00
6301       6301
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         44         44   1.00
17648      17648
                     Fill          0          0          0   1.00   -45294
0          0
                 Mass ordinate for TOPSOIL = 23949

  198+50.00 EARTH
                 Common Exc      130        231        231   1.00
78105      78105
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        124        224        224   1.00   -45287
123392     123392
             TOPSOIL
                 Common Exc        7         12         12   1.00
6313       6313
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         44         44   1.00
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17692      17692
                  Fill          0          0          0   1.00   -45287
0          0
               Mass ordinate for TOPSOIL = 24005

  199+00.00 EARTH
               Common Exc      134        244        244   1.00
78349      78349
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         127        232        232   1.00   -45275
123624     123624
              TOPSOIL
               Common Exc        7         13         13   1.00
6326       6326
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      24         44         44   1.00
17736      17736
                  Fill          0          0          0   1.00   -45275
0          0
               Mass ordinate for TOPSOIL = 24062

  199+50.00 EARTH
               Common Exc      127        242        242   1.00
78591      78591
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         107        217        217   1.00   -45250
123841     123841
              TOPSOIL
               Common Exc        7         13         13   1.00
6339       6339
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      25         45         45   1.00
17781      17781
                  Fill          0          0          0   1.00   -45250
0          0
               Mass ordinate for TOPSOIL = 24120

  200+00.00 EARTH
               Common Exc      126        234        234   1.00
78825      78825
              Subgrade Exc       0          0          0   1.00
0          0
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```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         90        182        182   1.00   -45198
124023     124023
             TOPSOIL
                 Common Exc        8         14         14   1.00
6353       6353
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         43         43   1.00
17824      17824
                     Fill          0          0          0   1.00   -45198
0          0
                 Mass ordinate for TOPSOIL = 24177

  200+50.00 EARTH
                 Common Exc      138        244        244   1.00
79069      79069
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         51        131        131   1.00   -45085
124154     124154
             TOPSOIL
                 Common Exc       10         17         17   1.00
6370       6370
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         36         36   1.00
17860      17860
                     Fill          0          0          0   1.00   -45085
0          0
                 Mass ordinate for TOPSOIL = 24230

  201+00.00 EARTH
                 Common Exc      161        277        277   1.00
79346      79346
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         10         56         56   1.00   -44864
124210     124210
             TOPSOIL
                 Common Exc       11         19         19   1.00
6389       6389
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         24         24   1.00
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17884      17884
                  Fill          0          0          0   1.00   -44864
0          0
               Mass ordinate for TOPSOIL = 24273

  201+50.00 EARTH
               Common Exc      132        271        271   1.00
79617      79617
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         31         38         38   1.00   -44631
124248     124248
              TOPSOIL
               Common Exc        9         19         19   1.00
6408       6408
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       16         22         22   1.00
17906      17906
                  Fill          0          0          0   1.00   -44631
0          0
               Mass ordinate for TOPSOIL = 24314

  202+00.00 EARTH
               Common Exc      137        249        249   1.00
79866      79866
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         24         51         51   1.00   -44433
124299     124299
              TOPSOIL
               Common Exc        9         17         17   1.00
6425       6425
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         28         28   1.00
17934      17934
                  Fill          0          0          0   1.00   -44433
0          0
               Mass ordinate for TOPSOIL = 24359

  202+39.42 EARTH
               Common Exc      141        203        203   1.00
80069      80069
             Subgrade Exc        0          0          0   1.00
0          0
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```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         16         29         29   1.00   -44259
124328     124328
             TOPSOIL
                 Common Exc       14         17         17   1.00
6442       6442
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         18         18   1.00
17952      17952
                     Fill          0          0          0   1.00   -44259
0          0
                 Mass ordinate for TOPSOIL = 24394

  202+50.00 EARTH
                 Common Exc      144         56         56   1.00
80125      80125
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         18          7          7   1.00   -44210
124335     124335
             TOPSOIL
                 Common Exc       14          5          5   1.00
6447       6447
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10          4          4   1.00
17956      17956
                     Fill          0          0          0   1.00   -44210
0          0
                 Mass ordinate for TOPSOIL = 24403

  203+00.00 EARTH
                 Common Exc      172        293        293   1.00
80418      80418
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         21         36         36   1.00   -43953
124371     124371
             TOPSOIL
                 Common Exc       16         28         28   1.00
6475       6475
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         18         18   1.00
```

```
17974      17974
                Fill          0          0          0   1.00   -43953
0          0
          Mass ordinate for TOPSOIL = 24449

  203+50.00 EARTH
               Common Exc      201        345        345   1.00
80763      80763
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         17         35         35   1.00   -43643
124406     124406
             TOPSOIL
               Common Exc       18         31         31   1.00
6506       6506
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        9         17         17   1.00
17991      17991
                Fill          0          0          0   1.00   -43643
0          0
          Mass ordinate for TOPSOIL = 24497

  204+00.00 EARTH
               Common Exc      191        363        363   1.00
81126      81126
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         15         30         30   1.00   -43310
124436     124436
             TOPSOIL
               Common Exc       16         31         31   1.00
6537       6537
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        9         17         17   1.00
18008      18008
                Fill          0          0          0   1.00   -43310
0          0
          Mass ordinate for TOPSOIL = 24545

  204+50.00 EARTH
               Common Exc      170        334        334   1.00
81460      81460
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         20         32         32   1.00   -43008
124468     124468
             TOPSOIL
                 Common Exc       14         28         28   1.00
6565       6565
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9         17         17   1.00
18025      18025
                     Fill          0          0          0   1.00   -43008
0          0
                 Mass ordinate for TOPSOIL = 24590

  205+00.00 EARTH
                 Common Exc      170        315        315   1.00
81775      81775
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         26         43         43   1.00   -42736
124511     124511
             TOPSOIL
                 Common Exc       15         27         27   1.00
6592       6592
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         18         18   1.00
18043      18043
                     Fill          0          0          0   1.00   -42736
0          0
                 Mass ordinate for TOPSOIL = 24635

  205+50.00 EARTH
                 Common Exc      160        306        306   1.00
82081      82081
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         22         44         44   1.00   -42474
124555     124555
             TOPSOIL
                 Common Exc       14         27         27   1.00
6619       6619
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         19         19   1.00
```

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18062      18062
                Fill          0          0          0   1.00   -42474
0          0
     Mass ordinate for TOPSOIL = 24681

  206+00.00 EARTH
               Common Exc      134        272        272   1.00
82353      82353
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         20         39         39   1.00   -42241
124594     124594
             TOPSOIL
               Common Exc       12         24         24   1.00
6643       6643
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       10         19         19   1.00
18081      18081
                Fill          0          0          0   1.00   -42241
0          0
     Mass ordinate for TOPSOIL = 24724

  206+50.00 EARTH
               Common Exc      129        244        244   1.00
82597      82597
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         23         40         40   1.00   -42037
124634     124634
             TOPSOIL
               Common Exc       10         20         20   1.00
6663       6663
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       11         19         19   1.00
18100      18100
                Fill          0          0          0   1.00   -42037
0          0
     Mass ordinate for TOPSOIL = 24763

  207+00.00 EARTH
               Common Exc      122        232        232   1.00
82829      82829
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         31         50         50   1.00   -41855
124684     124684
             TOPSOIL
                 Common Exc        5         14         14   1.00
6677       6677
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       14         23         23   1.00
18123      18123
                     Fill          0          0          0   1.00   -41855
0          0
                 Mass ordinate for TOPSOIL = 24800

  207+50.00 EARTH
                 Common Exc      122        226        226   1.00
83055      83055
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         58         82         82   1.00   -41711
124766     124766
             TOPSOIL
                 Common Exc        4          8          8   1.00
6685       6685
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       18         30         30   1.00
18153      18153
                     Fill          0          0          0   1.00   -41711
0          0
                 Mass ordinate for TOPSOIL = 24838

  208+00.00 EARTH
                 Common Exc      122        226        226   1.00
83281      83281
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         51        101        101   1.00   -41586
124867     124867
             TOPSOIL
                 Common Exc        4          7          7   1.00
6692       6692
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         31         31   1.00
```

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18184      18184
                Fill          0          0          0   1.00   -41586
0          0
          Mass ordinate for TOPSOIL = 24876

  208+50.00 EARTH
               Common Exc      119        223        223   1.00
83504      83504
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         36         81         81   1.00   -41444
124948     124948
             TOPSOIL
               Common Exc        4          7          7   1.00
6699       6699
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       15         29         29   1.00
18213      18213
                Fill          0          0          0   1.00   -41444
0          0
          Mass ordinate for TOPSOIL = 24912

  209+00.00 EARTH
               Common Exc      121        222        222   1.00
83726      83726
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         27         58         58   1.00   -41280
125006     125006
             TOPSOIL
               Common Exc        2          6          6   1.00
6705       6705
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         27         27   1.00
18240      18240
                Fill          0          0          0   1.00   -41280
0          0
          Mass ordinate for TOPSOIL = 24945

  209+50.00 EARTH
               Common Exc      141        243        243   1.00
83969      83969
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         43         65         65   1.00   -41102
125071     125071
             TOPSOIL
                 Common Exc        5          6          6   1.00
6711       6711
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       17         29         29   1.00
18269      18269
                     Fill          0          0          0   1.00   -41102
0          0
                 Mass ordinate for TOPSOIL = 24980

  210+00.00 EARTH
                 Common Exc      132        253        253   1.00
84222      84222
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        159        187        187   1.00   -41036
125258     125258
             TOPSOIL
                 Common Exc        3          7          7   1.00
6718       6718
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       29         43         43   1.00
18312      18312
                     Fill          0          0          0   1.00   -41036
0          0
                 Mass ordinate for TOPSOIL = 25030

  210+50.00 EARTH
                 Common Exc      131        244        244   1.00
84466      84466
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        260        388        388   1.00   -41180
125646     125646
             TOPSOIL
                 Common Exc        4          6          6   1.00
6724       6724
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       34         58         58   1.00
```

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18370      18370
                  Fill          0          0          0   1.00   -41180
0          0
               Mass ordinate for TOPSOIL = 25094

  211+00.00 EARTH
               Common Exc      135        246        246   1.00
84712      84712
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         260        481        481   1.00   -41415
126127     126127
              TOPSOIL
               Common Exc        2          6          6   1.00
6730       6730
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      34         63         63   1.00
18433      18433
                  Fill          0          0          0   1.00   -41415
0          0
               Mass ordinate for TOPSOIL = 25163

  211+50.00 EARTH
               Common Exc      130        245        245   1.00
84957      84957
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                  Fill         253        475        475   1.00   -41645
126602     126602
              TOPSOIL
               Common Exc        2          4          4   1.00
6734       6734
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc      35         64         64   1.00
18497      18497
                  Fill          0          0          0   1.00   -41645
0          0
               Mass ordinate for TOPSOIL = 25231

  212+00.00 EARTH
               Common Exc      115        227        227   1.00
85184      85184
              Subgrade Exc       0          0          0   1.00
0          0
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```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        220        438        438   1.00   -41856
127040     127040
             TOPSOIL
                 Common Exc        2          4          4   1.00
6738       6738
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       33         63         63   1.00
18560      18560
                     Fill          0          0          0   1.00   -41856
0          0
                 Mass ordinate for TOPSOIL = 25298

  212+50.00 EARTH
                 Common Exc       99        198        198   1.00
85382      85382
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        149        342        342   1.00   -42000
127382     127382
             TOPSOIL
                 Common Exc        2          4          4   1.00
6742       6742
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       27         56         56   1.00
18616      18616
                     Fill          0          0          0   1.00   -42000
0          0
                 Mass ordinate for TOPSOIL = 25358

  213+00.00 EARTH
                 Common Exc      100        184        184   1.00
85566      85566
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill        101        231        231   1.00   -42047
127613     127613
             TOPSOIL
                 Common Exc        1          3          3   1.00
6745       6745
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       23         46         46   1.00
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18662      18662
                Fill          0          0          0   1.00   -42047
0          0
          Mass ordinate for TOPSOIL = 25407

  213+50.00 EARTH
               Common Exc      110        194        194   1.00
85760      85760
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         70        158        158   1.00   -42011
127771     127771
             TOPSOIL
               Common Exc        4          5          5   1.00
6750       6750
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       17         37         37   1.00
18699      18699
                Fill          0          0          0   1.00   -42011
0          0
          Mass ordinate for TOPSOIL = 25449

  214+00.00 EARTH
               Common Exc      119        212        212   1.00
85972      85972
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         46        107        107   1.00   -41906
127878     127878
             TOPSOIL
               Common Exc        5          8          8   1.00
6758       6758
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         29         29   1.00
18728      18728
                Fill          0          0          0   1.00   -41906
0          0
          Mass ordinate for TOPSOIL = 25486

  214+50.00 EARTH
               Common Exc      118        219        219   1.00
86191      86191
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         51         90         90   1.00   -41777
127968     127968
             TOPSOIL
                 Common Exc        4          8          8   1.00
6766       6766
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15         27         27   1.00
18755      18755
                     Fill          0          0          0   1.00   -41777
0          0
                 Mass ordinate for TOPSOIL = 25521

  214+54.09 EARTH
                 Common Exc      117         18         18   1.00
86209      86209
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         50          8          8   1.00   -41767
127976     127976
             TOPSOIL
                 Common Exc        5          1          1   1.00
6767       6767
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       15          2          2   1.00
18757      18757
                     Fill          0          0          0   1.00   -41767
0          0
                 Mass ordinate for TOPSOIL = 25524

  215+00.00 EARTH
                 Common Exc      110        193        193   1.00
86402      86402
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         55         89         89   1.00   -41663
128065     128065
             TOPSOIL
                 Common Exc        4          8          8   1.00
6775       6775
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         26         26   1.00
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18783      18783
                  Fill          0          0          0   1.00   -41663
0          0
               Mass ordinate for TOPSOIL = 25558

  215+50.00 EARTH
               Common Exc      114        207        207   1.00
86609      86609
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         51         98         98   1.00   -41554
128163     128163
              TOPSOIL
               Common Exc        4          7          7   1.00
6782       6782
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       16         30         30   1.00
18813      18813
                  Fill          0          0          0   1.00   -41554
0          0
               Mass ordinate for TOPSOIL = 25595

  216+00.00 EARTH
               Common Exc      126        222        222   1.00
86831      86831
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         39         83         83   1.00   -41415
128246     128246
              TOPSOIL
               Common Exc        5          8          8   1.00
6790       6790
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       14         28         28   1.00
18841      18841
                  Fill          0          0          0   1.00   -41415
0          0
               Mass ordinate for TOPSOIL = 25631

  216+50.00 EARTH
               Common Exc      134        241        241   1.00
87072      87072
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         19         54         54   1.00   -41228
128300     128300
             TOPSOIL
                 Common Exc        8         12         12   1.00
6802       6802
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12         24         24   1.00
18865      18865
                     Fill          0          0          0   1.00   -41228
0          0
                 Mass ordinate for TOPSOIL = 25667

  217+00.00 EARTH
                 Common Exc      132        246        246   1.00
87318      87318
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         28         44         44   1.00   -41026
128344     128344
             TOPSOIL
                 Common Exc        4         11         11   1.00
6813       6813
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         26         26   1.00
18891      18891
                     Fill          0          0          0   1.00   -41026
0          0
                 Mass ordinate for TOPSOIL = 25704

  217+50.00 EARTH
                 Common Exc      128        241        241   1.00
87559      87559
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         81        101        101   1.00   -40886
128445     128445
             TOPSOIL
                 Common Exc        3          6          6   1.00
6819       6819
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       21         34         34   1.00
```

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18925      18925
                  Fill          0          0          0   1.00   -40886
0          0
               Mass ordinate for TOPSOIL = 25744

  218+00.00 EARTH
               Common Exc      127        236        236   1.00
87795      87795
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         97        165        165   1.00   -40815
128610     128610
              TOPSOIL
               Common Exc        4          6          6   1.00
6825       6825
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       24         42         42   1.00
18967      18967
                  Fill          0          0          0   1.00   -40815
0          0
               Mass ordinate for TOPSOIL = 25792

  218+25.00 EARTH
               Common Exc      124        116        116   1.00
87911      87911
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         96         89         89   1.00   -40788
128699     128699
              TOPSOIL
               Common Exc        5          4          4   1.00
6829       6829
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       23         22         22   1.00
18989      18989
                  Fill          0          0          0   1.00   -40788
0          0
               Mass ordinate for TOPSOIL = 25818

  218+50.00 EARTH
               Common Exc      125        115        115   1.00
88026      88026
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         98         90         90   1.00   -40763
128789     128789
             TOPSOIL
                 Common Exc        7          6          6   1.00
6835       6835
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       24         22         22   1.00
19011      19011
                     Fill          0          0          0   1.00   -40763
0          0
                 Mass ordinate for TOPSOIL = 25846

  220+00.00 EARTH
                 Common Exc      120        681        681   1.00
88707      88707
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         33        364        364   1.00   -40446
129153     129153
             TOPSOIL
                 Common Exc       12         53         53   1.00
6888       6888
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       14        106        106   1.00
19117      19117
                     Fill          0          0          0   1.00   -40446
0          0
                 Mass ordinate for TOPSOIL = 26005

  221+00.00 EARTH
                 Common Exc      127        457        457   1.00
89164      89164
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         14         87         87   1.00   -40076
129240     129240
             TOPSOIL
                 Common Exc       16         52         52   1.00
6940       6940
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         41         41   1.00
```

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19158      19158
                Fill          0          0          0   1.00   -40076
0          0
          Mass ordinate for TOPSOIL = 26098

  221+50.00 EARTH
               Common Exc      140        247        247   1.00
89411      89411
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          4         17         17   1.00   -39846
129257     129257
             TOPSOIL
               Common Exc       21         34         34   1.00
6974       6974
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3         10         10   1.00
19168      19168
                Fill          0          0          0   1.00   -39846
0          0
          Mass ordinate for TOPSOIL = 26142

  222+00.00 EARTH
               Common Exc      144        263        263   1.00
89674      89674
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          5          8          8   1.00   -39591
129265     129265
             TOPSOIL
               Common Exc       21         39         39   1.00
7013       7013
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3          6          6   1.00
19174      19174
                Fill          0          0          0   1.00   -39591
0          0
          Mass ordinate for TOPSOIL = 26187

  222+50.00 EARTH
               Common Exc      170        291        291   1.00
89965      89965
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          2          6          6   1.00   -39306
129271     129271
             TOPSOIL
                 Common Exc       24         42         42   1.00
7055       7055
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        2          5          5   1.00
19179      19179
                     Fill          0          0          0   1.00   -39306
0          0
                 Mass ordinate for TOPSOIL = 26234

  223+00.00 EARTH
                 Common Exc      145        292        292   1.00
90257      90257
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          9         10         10   1.00   -39024
129281     129281
             TOPSOIL
                 Common Exc        7         29         29   1.00
7084       7084
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7          8          8   1.00
19187      19187
                     Fill          0          0          0   1.00   -39024
0          0
                 Mass ordinate for TOPSOIL = 26271

  223+50.00 EARTH
                 Common Exc      142        266        266   1.00
90523      90523
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         14         21         21   1.00   -38779
129302     129302
             TOPSOIL
                 Common Exc       10         16         16   1.00
7100       7100
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10         16         16   1.00
```

```
19203      19203
                  Fill          0          0          0   1.00   -38779
0          0
               Mass ordinate for TOPSOIL = 26303

  224+00.00 EARTH
               Common Exc      118        241        241   1.00
90764      90764
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         39         49         49   1.00   -38587
129351     129351
              TOPSOIL
               Common Exc        6         15         15   1.00
7115       7115
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       15         23         23   1.00
19226      19226
                  Fill          0          0          0   1.00   -38587
0          0
               Mass ordinate for TOPSOIL = 26341

  224+50.00 EARTH
               Common Exc      140        239        239   1.00
91003      91003
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill         42         75         75   1.00   -38423
129426     129426
              TOPSOIL
               Common Exc        9         14         14   1.00
7129       7129
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       17         30         30   1.00
19256      19256
                  Fill          0          0          0   1.00   -38423
0          0
               Mass ordinate for TOPSOIL = 26385

  225+00.00 EARTH
               Common Exc      143        262        262   1.00
91265      91265
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         27         64         64   1.00   -38225
129490     129490
             TOPSOIL
                 Common Exc        9         17         17   1.00
7146       7146
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       16         31         31   1.00
19287      19287
                     Fill          0          0          0   1.00   -38225
0          0
                 Mass ordinate for TOPSOIL = 26433

  225+50.00 EARTH
                 Common Exc      151        272        272   1.00
91537      91537
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          5         30         30   1.00   -37983
129520     129520
             TOPSOIL
                 Common Exc       18         25         25   1.00
7171       7171
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        5         19         19   1.00
19306      19306
                     Fill          0          0          0   1.00   -37983
0          0
                 Mass ordinate for TOPSOIL = 26477

  226+00.00 EARTH
                 Common Exc      164        292        292   1.00
91829      91829
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          6         10         10   1.00   -37701
129530     129530
             TOPSOIL
                 Common Exc        9         25         25   1.00
7196       7196
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        5          9          9   1.00
```

```
19315      19315
                  Fill          0          0          0   1.00   -37701
0          0
               Mass ordinate for TOPSOIL = 26511

  226+50.00 EARTH
               Common Exc      166        306        306   1.00
92135      92135
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill          3          8          8   1.00   -37403
129538     129538
              TOPSOIL
               Common Exc       16         23         23   1.00
7219       7219
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3          7          7   1.00
19322      19322
                  Fill          0          0          0   1.00   -37403
0          0
               Mass ordinate for TOPSOIL = 26541

  227+00.00 EARTH
               Common Exc      127        271        271   1.00
92406      92406
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                  Fill          2          5          5   1.00   -37137
129543     129543
              TOPSOIL
               Common Exc       17         31         31   1.00
7250       7250
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        2          5          5   1.00
19327      19327
                  Fill          0          0          0   1.00   -37137
0          0
               Mass ordinate for TOPSOIL = 26577

  227+50.00 EARTH
               Common Exc      126        234        234   1.00
92640      92640
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         10         11         11   1.00   -36914
129554     129554
             TOPSOIL
                 Common Exc       14         29         29   1.00
7279       7279
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6          7          7   1.00
19334      19334
                     Fill          0          0          0   1.00   -36914
0          0
                 Mass ordinate for TOPSOIL = 26613

  228+00.00 EARTH
                 Common Exc      130        237        237   1.00
92877      92877
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         14         22         22   1.00   -36699
129576     129576
             TOPSOIL
                 Common Exc       14         26         26   1.00
7305       7305
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         13         13   1.00
19347      19347
                     Fill          0          0          0   1.00   -36699
0          0
                 Mass ordinate for TOPSOIL = 26652

  228+50.00 EARTH
                 Common Exc      126        237        237   1.00
93114      93114
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         13         25         25   1.00   -36487
129601     129601
             TOPSOIL
                 Common Exc       14         26         26   1.00
7331       7331
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         15         15   1.00
```

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19362      19362
                Fill          0          0          0   1.00   -36487
0          0
          Mass ordinate for TOPSOIL = 26693

  228+69.15 EARTH
               Common Exc      123         88         88   1.00
93202      93202
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          7          7          7   1.00   -36406
129608     129608
             TOPSOIL
               Common Exc       14         10         10   1.00
7341       7341
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          5          5   1.00
19367      19367
                Fill          0          0          0   1.00   -36406
0          0
          Mass ordinate for TOPSOIL = 26708

  229+00.00 EARTH
               Common Exc      125        142        142   1.00
93344      93344
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          9          9          9   1.00   -36273
129617     129617
             TOPSOIL
               Common Exc       17         18         18   1.00
7359       7359
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          7          7   1.00
19374      19374
                Fill          0          0          0   1.00   -36273
0          0
          Mass ordinate for TOPSOIL = 26733

  229+50.00 EARTH
               Common Exc      125        231        231   1.00
93575      93575
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         13         20         20   1.00   -36062
129637     129637
             TOPSOIL
                 Common Exc       16         31         31   1.00
7390       7390
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        8         13         13   1.00
19387      19387
                     Fill          0          0          0   1.00   -36062
0          0
                 Mass ordinate for TOPSOIL = 26777

  230+00.00 EARTH
                 Common Exc      131        237        237   1.00
93812      93812
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          9         20         20   1.00   -35845
129657     129657
             TOPSOIL
                 Common Exc       19         32         32   1.00
7422       7422
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6         13         13   1.00
19400      19400
                     Fill          0          0          0   1.00   -35845
0          0
                 Mass ordinate for TOPSOIL = 26822

  230+50.00 EARTH
                 Common Exc      141        252        252   1.00
94064      94064
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          4         12         12   1.00   -35605
129669     129669
             TOPSOIL
                 Common Exc       21         37         37   1.00
7459       7459
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        4          9          9   1.00
```

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19409      19409
                Fill          0          0          0   1.00   -35605
0          0
          Mass ordinate for TOPSOIL = 26868

  231+00.00 EARTH
               Common Exc      137        257        257   1.00
94321      94321
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          3          6          6   1.00   -35354
129675     129675
             TOPSOIL
               Common Exc       21         39         39   1.00
7498       7498
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3          6          6   1.00
19415      19415
                Fill          0          0          0   1.00   -35354
0          0
          Mass ordinate for TOPSOIL = 26913

  231+50.00 EARTH
               Common Exc      163        278        278   1.00
94599      94599
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          3          6          6   1.00   -35082
129681     129681
             TOPSOIL
               Common Exc       18         36         36   1.00
7534       7534
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        2          5          5   1.00
19420      19420
                Fill          0          0          0   1.00   -35082
0          0
          Mass ordinate for TOPSOIL = 26954

  232+00.00 EARTH
               Common Exc      187        324        324   1.00
94923      94923
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1          4          4   1.00   -34762
129685     129685
             TOPSOIL
                 Common Exc       28         43         43   1.00
7577       7577
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          3          3   1.00
19423      19423
                     Fill          0          0          0   1.00   -34762
0          0
                 Mass ordinate for TOPSOIL = 27000

  232+50.00 EARTH
                 Common Exc      161        322        322   1.00
95245      95245
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1          2          2   1.00   -34442
129687     129687
             TOPSOIL
                 Common Exc       27         51         51   1.00
7628       7628
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          2          2   1.00
19425      19425
                     Fill          0          0          0   1.00   -34442
0          0
                 Mass ordinate for TOPSOIL = 27053

  232+88.23 EARTH
                 Common Exc      174        237        237   1.00
95482      95482
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          1          1          1   1.00   -34206
129688     129688
             TOPSOIL
                 Common Exc       29         40         40   1.00
7668       7668
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        1          1          1   1.00
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19426      19426
                Fill          0          0          0   1.00   -34206
0          0
          Mass ordinate for TOPSOIL = 27094

  233+00.00 EARTH
               Common Exc      157         72         72   1.00
95554      95554
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          3          1          1   1.00   -34135
129689     129689
             TOPSOIL
               Common Exc       24         12         12   1.00
7680       7680
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3          1          1   1.00
19427      19427
                Fill          0          0          0   1.00   -34135
0          0
          Mass ordinate for TOPSOIL = 27107

  233+50.00 EARTH
               Common Exc      199        330        330   1.00
95884      95884
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          2          5          5   1.00   -33810
129694     129694
             TOPSOIL
               Common Exc       27         47         47   1.00
7727       7727
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        2          5          5   1.00
19432      19432
                Fill          0          0          0   1.00   -33810
0          0
          Mass ordinate for TOPSOIL = 27159

  234+00.00 EARTH
               Common Exc      140        314        314   1.00
96198      96198
             Subgrade Exc        0          0          0   1.00
0          0
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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          4          6          6   1.00   -33502
129700     129700
             TOPSOIL
                 Common Exc       23         46         46   1.00
7773       7773
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        4          6          6   1.00
19438      19438
                     Fill          0          0          0   1.00   -33502
0          0
                 Mass ordinate for TOPSOIL = 27211

  234+50.00 EARTH
                 Common Exc      160        278        278   1.00
96476      96476
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          5          8          8   1.00   -33232
129708     129708
             TOPSOIL
                 Common Exc       20         40         40   1.00
7813       7813
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        4          7          7   1.00
19445      19445
                     Fill          0          0          0   1.00   -33232
0          0
                 Mass ordinate for TOPSOIL = 27258

  235+00.00 EARTH
                 Common Exc      171        306        306   1.00
96782      96782
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          3          7          7   1.00   -32933
129715     129715
             TOPSOIL
                 Common Exc       21         38         38   1.00
7851       7851
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        3          6          6   1.00
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```
19451      19451
                Fill          0          0          0   1.00   -32933
0          0
          Mass ordinate for TOPSOIL = 27302

  235+10.00 EARTH
               Common Exc      169         63         63   1.00
96845      96845
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          2          1          1   1.00   -32871
129716     129716
             TOPSOIL
               Common Exc       20          8          8   1.00
7859       7859
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        2          1          1   1.00
19452      19452
                Fill          0          0          0   1.00   -32871
0          0
          Mass ordinate for TOPSOIL = 27311

  235+20.00 EARTH
               Common Exc      164         62         62   1.00
96907      96907
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          3          1          1   1.00   -32810
129717     129717
             TOPSOIL
               Common Exc       19          7          7   1.00
7866       7866
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        3          1          1   1.00
19453      19453
                Fill          0          0          0   1.00   -32810
0          0
          Mass ordinate for TOPSOIL = 27319

  235+30.00 EARTH
               Common Exc      159         60         60   1.00
96967      96967
             Subgrade Exc        0          0          0   1.00
0          0
```

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                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          8          2          2   1.00   -32752
129719     129719
             TOPSOIL
                 Common Exc       13          6          6   1.00
7872       7872
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7          2          2   1.00
19455      19455
                     Fill          0          0          0   1.00   -32752
0          0
                 Mass ordinate for TOPSOIL = 27327

  235+40.00 EARTH
                 Common Exc      155         58         58   1.00
97025      97025
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         15          4          4   1.00   -32698
129723     129723
             TOPSOIL
                 Common Exc       12          5          5   1.00
7877       7877
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       10          3          3   1.00
19458      19458
                     Fill          0          0          0   1.00   -32698
0          0
                 Mass ordinate for TOPSOIL = 27335

  235+50.00 EARTH
                 Common Exc      150         56         56   1.00
97081      97081
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         23          7          7   1.00   -32649
129730     129730
             TOPSOIL
                 Common Exc        9          4          4   1.00
7881       7881
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       13          4          4   1.00
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19462      19462
                Fill          0          0          0   1.00   -32649
0          0
          Mass ordinate for TOPSOIL = 27343

  235+60.00 EARTH
               Common Exc      145         55         55   1.00
97136      97136
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         14          7          7   1.00   -32601
129737     129737
             TOPSOIL
               Common Exc       10          4          4   1.00
7885       7885
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       10          4          4   1.00
19466      19466
                Fill          0          0          0   1.00   -32601
0          0
          Mass ordinate for TOPSOIL = 27351

  235+70.00 EARTH
               Common Exc      139         53         53   1.00
97189      97189
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         24          7          7   1.00   -32555
129744     129744
             TOPSOIL
               Common Exc       10          4          4   1.00
7889       7889
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc       13          4          4   1.00
19470      19470
                Fill          0          0          0   1.00   -32555
0          0
          Mass ordinate for TOPSOIL = 27359

  235+80.00 EARTH
               Common Exc      134         51         51   1.00
97240      97240
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         19          8          8   1.00   -32512
129752     129752
             TOPSOIL
                 Common Exc        9          4          4   1.00
7893       7893
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       12          5          5   1.00
19475      19475
                     Fill          0          0          0   1.00   -32512
0          0
                 Mass ordinate for TOPSOIL = 27368

  235+90.00 EARTH
                 Common Exc      130         49         49   1.00
97289      97289
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         18          7          7   1.00   -32470
129759     129759
             TOPSOIL
                 Common Exc        8          3          3   1.00
7896       7896
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc       11          4          4   1.00
19479      19479
                     Fill          0          0          0   1.00   -32470
0          0
                 Mass ordinate for TOPSOIL = 27375

  236+00.00 EARTH
                 Common Exc      127         48         48   1.00
97337      97337
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         15          6          6   1.00   -32428
129765     129765
             TOPSOIL
                 Common Exc        9          3          3   1.00
7899       7899
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        9          4          4   1.00
```

```
19483      19483
                Fill          0          0          0   1.00   -32428
0          0
          Mass ordinate for TOPSOIL = 27382

  236+10.00 EARTH
               Common Exc      127         47         47   1.00
97384      97384
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         13          5          5   1.00   -32386
129770     129770
             TOPSOIL
               Common Exc        9          3          3   1.00
7902       7902
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        9          3          3   1.00
19486      19486
                Fill          0          0          0   1.00   -32386
0          0
          Mass ordinate for TOPSOIL = 27388

  236+20.00 EARTH
               Common Exc      129         47         47   1.00
97431      97431
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         10          4          4   1.00   -32343
129774     129774
             TOPSOIL
               Common Exc       10          4          4   1.00
7906       7906
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        7          3          3   1.00
19489      19489
                Fill          0          0          0   1.00   -32343
0          0
          Mass ordinate for TOPSOIL = 27395

  236+30.00 EARTH
               Common Exc      132         48         48   1.00
97479      97479
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          9          4          4   1.00   -32299
129778     129778
             TOPSOIL
                 Common Exc       11          4          4   1.00
7910       7910
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6          2          2   1.00
19491      19491
                     Fill          0          0          0   1.00   -32299
0          0
                 Mass ordinate for TOPSOIL = 27401

  236+40.00 EARTH
                 Common Exc      136         50         50   1.00
97529      97529
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          8          3          3   1.00   -32252
129781     129781
             TOPSOIL
                 Common Exc       12          4          4   1.00
7914       7914
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6          2          2   1.00
19493      19493
                     Fill          0          0          0   1.00   -32252
0          0
                 Mass ordinate for TOPSOIL = 27407

  236+50.00 EARTH
                 Common Exc      139         51         51   1.00
97580      97580
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          8          3          3   1.00   -32204
129784     129784
             TOPSOIL
                 Common Exc       11          4          4   1.00
7918       7918
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        6          2          2   1.00
```

```
19495      19495
                Fill          0          0          0   1.00   -32204
0          0
          Mass ordinate for TOPSOIL = 27413

  236+60.00 EARTH
               Common Exc      145         53         53   1.00
97633      97633
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          9          3          3   1.00   -32154
129787     129787
             TOPSOIL
               Common Exc       11          4          4   1.00
7922       7922
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        6          2          2   1.00
19497      19497
                Fill          0          0          0   1.00   -32154
0          0
          Mass ordinate for TOPSOIL = 27419

  236+70.00 EARTH
               Common Exc      149         54         54   1.00
97687      97687
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill          9          3          3   1.00   -32103
129790     129790
             TOPSOIL
               Common Exc       12          4          4   1.00
7926       7926
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        5          2          2   1.00
19499      19499
                Fill          0          0          0   1.00   -32103
0          0
          Mass ordinate for TOPSOIL = 27425

  236+80.00 EARTH
               Common Exc      140         54         54   1.00
97741      97741
             Subgrade Exc        0          0          0   1.00
0          0
```

```
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          9          3          3   1.00   -32052
129793     129793
             TOPSOIL
                 Common Exc       10          4          4   1.00
7930       7930
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        5          2          2   1.00
19501      19501
                     Fill          0          0          0   1.00   -32052
0          0
                 Mass ordinate for TOPSOIL = 27431

  236+81.82 EARTH
                 Common Exc      138          9          9   1.00
97750      97750
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill          9          1          1   1.00   -32044
129794     129794
             TOPSOIL
                 Common Exc       10          1          1   1.00
7931       7931
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        5          0          0   1.00
19501      19501
                     Fill          0          0          0   1.00   -32044
0          0
                 Mass ordinate for TOPSOIL = 27432

  236+90.00 EARTH
                 Common Exc      132         41         41   1.00
97791      97791
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        0          0          0   1.00
0          0
                     Fill         16          4          4   1.00   -32007
129798     129798
             TOPSOIL
                 Common Exc        8          3          3   1.00
7934       7934
               Subgrade Exc        0          0          0   1.00
0          0
                Subsoil Exc        7          2          2   1.00
```

```
19503      19503
                Fill          0          0          0   1.00   -32007
0          0
          Mass ordinate for TOPSOIL = 27437

  237+00.00 EARTH
               Common Exc      139         50         50   1.00
97841      97841
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         24          7          7   1.00   -31964
129805     129805
             TOPSOIL
               Common Exc        7          3          3   1.00
7937       7937
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        8          3          3   1.00
19506      19506
                Fill          0          0          0   1.00   -31964
0          0
          Mass ordinate for TOPSOIL = 27443

  237+10.00 EARTH
               Common Exc      147         53         53   1.00
97894      97894
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        0          0          0   1.00
0          0
                Fill         12          7          7   1.00   -31918
129812     129812
             TOPSOIL
               Common Exc        6          2          2   1.00
7939       7939
             Subgrade Exc        0          0          0   1.00
0          0
              Subsoil Exc        7          3          3   1.00
19509      19509
                Fill          0          0          0   1.00   -31918
0          0
          Mass ordinate for TOPSOIL = 27448

  237+20.00 EARTH
               Common Exc      165         58         58   1.00
97952      97952
             Subgrade Exc        0          0          0   1.00
0          0
```

```
              Subsoil Exc        0          0          0   1.00
0          0
                   Fill          1          2          2   1.00   -31862
129814     129814
            TOPSOIL
               Common Exc        8          3          3   1.00
7942       7942
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          1          1   1.00
19510      19510
                   Fill          0          0          0   1.00   -31862
0          0
                Mass ordinate for TOPSOIL = 27452

  237+30.00 EARTH
               Common Exc      155         59         59   1.00
98011      98011
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
0          0
                   Fill          0          0          0   1.00   -31803
129814     129814
            TOPSOIL
               Common Exc       58         12         12   1.00
7954       7954
              Subgrade Exc       0          0          0   1.00
0          0
               Subsoil Exc       0          0          0   1.00
19510      19510
                   Fill          0          0          0   1.00   -31803
0          0
                Mass ordinate for TOPSOIL = 27464
↟                 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.)
        --------------------------- ---------- ---------- ------
        EARTH
                          Common Exc      98011      98011   1.00
                        Subgrade Exc          0          0   1.00
                         Subsoil Exc          0          0   1.00
                            Fill         129814     129814   1.00
        TOPSOIL
                          Common Exc       7954       7954   1.00
                        Subgrade Exc          0          0   1.00
                         Subsoil Exc      19510      19510   1.00
                            Fill             0          0   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
EARTH						
	Common Exc	98011	98011	0		0 1.00
	Subgrade Exc	0	0	0		0 1.00
	Subsoil Exc	0	0	0		0 1.00
	Fill	129814	129814	0		0 1.00
TOPSOIL						
	Common Exc	7954	7954	0		0 1.00
	Subgrade Exc	0	0	0		0 1.00
	Subsoil Exc	19510	19510	0		0 1.00
	Fill	0	0	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 Unadjusted Volumes (cu. yd.)	Cumulative Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Incremental Adjusted Volumes (cu. yd.)	Mult Factor
Station = 12+24.48, Region 1						
EARTH						
	Common Exc	125	125	125	125	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	125	125	125	125	1.00
TOPSOIL						
	Common Exc	0	0	0	0	

1.00

Subgrade	Exc	0	0	0	0

1.00

Subsoil	Exc	96	96	96	96

1.00

Fill		0	0	0	0

1.00

Station = 53+02.09, Region 1

EARTH

Common	Exc	20135	20135	20010	20010

1.00

Subgrade	Exc	0	0	0	0

1.00

Subsoil	Exc	0	0	0	0

1.00

Fill		20135	20135	20010	20010

1.00

TOPSOIL

Common	Exc	1241	1241	1241	1241

1.00

Subgrade	Exc	0	0	0	0

1.00

Subsoil	Exc	3236	3236	3140	3140

1.00

Fill		0	0	0	0

1.00

```
Input  File: ewkprj.inp
Output File: royal.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268RoyalXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0,ByLevel
 1    19    19             wt = 4,ByLevel
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58
 1    59    59     End Area Decimal Places = 1
 1    60    60
 1    61    61     write column base ascii file =  ROYALEARTHWORK.TXT
 1    62    62
 1    63    63     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    64    64     column 1 number of decimal place = 0
 1    65    65     column 1 total length = 10
 1    66    66
 1    67    67     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    68    68     column 2 number of decimal place = 0
 1    69    69     column 2 total length = 10
 1    70    70
 1    71    71     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    72    72     column 3 number of decimal place = 0
 1    73    73     column 3 total length = 10
 1    74    74
 1    75    75
 1    76    76     Process Earthwork for Baseline = ROYAL
 1    77    77         job number = 268
 1    78    78
 1    79    79         beg sta = 10+00.00 R 1
 1    80    80         end sta = 12+25.00 R 1
 0     0    81 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = ROYAL
COMPUTING EARTHWORKS FOR JOB = 268
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+50.00	EARTH					
	Common Exc	219.1	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	41.4	0	0	1.00	0
	TOPSOIL					
	Common Exc	27.1	0	0	1.00	

	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	10.3	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
10+75.00	EARTH					
	Common Exc	132.0	163	163	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.0	20	20	1.00	143
	TOPSOIL					
	Common Exc	13.8	19	19	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.0	5	5	1.00	
	Fill	0.0	0	0	1.00	143
	Mass ordinate for TOPSOIL = 24					
11+00.00	EARTH					
	Common Exc	106.3	110	110	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	2.4	2	2	1.00	251
	TOPSOIL					
	Common Exc	6.2	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.4	2	2	1.00	
	Fill	0.0	0	0	1.00	251
	Mass ordinate for TOPSOIL = 35					
11+25.00	EARTH					
	Common Exc	125.7	107	107	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.0	2	2	1.00	356
	TOPSOIL					
	Common Exc	9.3	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.0	2	2	1.00	
	Fill	0.0	0	0	1.00	356
	Mass ordinate for TOPSOIL = 44					
11+50.00	EARTH					
	Common Exc	88.1	99	99	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	5.9	3	3	1.00	452
	TOPSOIL					
	Common Exc	4.2	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	4.3	2	2	1.00	

Fill 0.0 0 0 1.00 452

Mass ordinate for TOPSOIL = 52

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
EARTH				
	Common Exc	479	479	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	27	27	1.00
TOPSOIL				
	Common Exc	41	41	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	11	11	1.00
	Fill	0	0	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
EARTH						
	Common Exc	479	479	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	27	27	0	0	1.00
TOPSOIL						
	Common Exc	41	41	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	11	11	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Haynes.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268HaynesXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = HaynesEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = HAYNES
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 20+00.00 R 1
 1    81    81         end sta = 24+75.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = HAYNES
COMPUTING EARTHWORKS FOR JOB = 268
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
20+50.00	EARTH					
	Common Exc	252.5	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.4	0	0	1.00	0
	TOPSOIL					

```
            Common Exc      28.1          0          0   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.4          0          0   1.00
                Fill         0.0          0          0   1.00         0
             Mass ordinate for TOPSOIL = 0

20+75.00 EARTH
            Common Exc     202.5        211        211   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.0          0          0   1.00
                Fill         0.7          1          1   1.00       210
        TOPSOIL
            Common Exc      28.5         26         26   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.7          1          1   1.00
                Fill         0.0          0          0   1.00       210
             Mass ordinate for TOPSOIL = 27

21+00.00 EARTH
            Common Exc     140.4        159        159   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.0          0          0   1.00
                Fill         1.0          1          1   1.00       368
        TOPSOIL
            Common Exc      15.2         20         20   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       1.0          1          1   1.00
                Fill         0.0          0          0   1.00       368
             Mass ordinate for TOPSOIL = 48

21+25.00 EARTH
            Common Exc     125.2        123        123   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.0          0          0   1.00
                Fill         1.1          1          1   1.00       490
        TOPSOIL
            Common Exc      13.5         13         13   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       1.1          1          1   1.00
                Fill         0.0          0          0   1.00       490
             Mass ordinate for TOPSOIL = 62

21+50.00 EARTH
            Common Exc     123.5        115        115   1.00
          Subgrade Exc       0.0          0          0   1.00
           Subsoil Exc       0.0          0          0   1.00
                Fill         0.8          1          1   1.00       604
        TOPSOIL
            Common Exc      13.3         12         12   1.00
          Subgrade Exc       0.0          0          0   1.00
```

```
            Subsoil Exc       0.8          1          1   1.00
                 Fill         0.0          0          0   1.00      604
             Mass ordinate for TOPSOIL = 75

21+75.00 EARTH
             Common Exc     111.7        109        109   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.0          0          0   1.00
                 Fill         0.9          1          1   1.00      712
         TOPSOIL
             Common Exc      11.5         11         11   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.9          1          1   1.00
                 Fill         0.0          0          0   1.00      712
             Mass ordinate for TOPSOIL = 87

22+00.00 EARTH
             Common Exc     104.3        100        100   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.0          0          0   1.00
                 Fill         0.8          1          1   1.00      811
         TOPSOIL
             Common Exc      10.6         10         10   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.8          1          1   1.00
                 Fill         0.0          0          0   1.00      811
             Mass ordinate for TOPSOIL = 98

22+25.00 EARTH
             Common Exc      92.8         91         91   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.0          0          0   1.00
                 Fill         0.9          1          1   1.00      901
         TOPSOIL
             Common Exc       9.7          9          9   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.9          1          1   1.00
                 Fill         0.0          0          0   1.00      901
             Mass ordinate for TOPSOIL = 108

22+50.00 EARTH
             Common Exc      91.7         85         85   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.0          0          0   1.00
                 Fill         0.9          1          1   1.00      985
         TOPSOIL
             Common Exc      10.7          9          9   1.00
           Subgrade Exc       0.0          0          0   1.00
            Subsoil Exc       0.9          1          1   1.00
                 Fill         0.0          0          0   1.00      985
```

	Mass ordinate for TOPSOIL = 118					
22+75.00	EARTH					
	Common Exc	80.0	79	79	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	1063
	TOPSOIL					
	Common Exc	9.0	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	1063
	Mass ordinate for TOPSOIL = 128					
23+00.00	EARTH					
	Common Exc	83.1	76	76	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.6	1	1	1.00	1138
	TOPSOIL					
	Common Exc	9.6	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.6	1	1	1.00	
	Fill	0.0	0	0	1.00	1138
	Mass ordinate for TOPSOIL = 138					
23+25.00	EARTH					
	Common Exc	77.5	74	74	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	1211
	TOPSOIL					
	Common Exc	8.1	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	1211
	Mass ordinate for TOPSOIL = 147					
23+50.00	EARTH					
	Common Exc	68.9	68	68	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	1278
	TOPSOIL					
	Common Exc	6.5	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	1278
	Mass ordinate for TOPSOIL = 155					

```
   23+75.00 EARTH
               Common Exc      64.8         62         62   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          0          0   1.00
                   Fill         0.5          1          1   1.00     1339
            TOPSOIL
               Common Exc       5.1          5          5   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.5          1          1   1.00
                   Fill         0.0          0          0   1.00     1339
              Mass ordinate for TOPSOIL = 161

   24+00.00 EARTH
               Common Exc      59.1         57         57   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          0          0   1.00
                   Fill         0.3          0          0   1.00     1396
            TOPSOIL
               Common Exc       3.5          4          4   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.2          0          0   1.00
                   Fill         0.0          0          0   1.00     1396
              Mass ordinate for TOPSOIL = 165
↟                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.)
        --------------------------- ---------- ---------- ------
        EARTH
                           Common Exc       1409       1409   1.00
                         Subgrade Exc          0          0   1.00
                          Subsoil Exc          0          0   1.00
                             Fill             13         13   1.00
        TOPSOIL
                           Common Exc        152        152   1.00
                         Subgrade Exc          0          0   1.00
                          Subsoil Exc         13         13   1.00
                             Fill              0          0   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.)

        --------------------------- ---------- ---------- -------------
------------- ------
```

EARTH							
	Common	Exc	1409	1409	0	0	1.00
	Subgrade	Exc	0	0	0	0	1.00
	Subsoil	Exc	0	0	0	0	1.00
	Fill		13	13	0	0	1.00
TOPSOIL							
	Common	Exc	152	152	0	0	1.00
	Subgrade	Exc	0	0	0	0	1.00
	Subsoil	Exc	13	13	0	0	1.00
	Fill		0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Riverbend.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268RiverbendXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = RiverbendEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = RIVERBEND
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 27+75.00 R 1
 1    81    81         end sta = 30+00.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = RIVERBEND
COMPUTING EARTHWORKS FOR JOB = 268
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
28+75.00	EARTH					
	Common Exc	8.2	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	35.3	0	0	1.00	0
	TOPSOIL					

```
              Common Exc       2.4          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      11.8          0          0   1.00
                  Fill         0.0          0          0   1.00         0
               Mass ordinate for TOPSOIL = 0

29+00.00 EARTH
              Common Exc      15.6         11         11   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill        23.4         27         27   1.00       -16
          TOPSOIL
              Common Exc       8.3          5          5   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      11.7         11         11   1.00
                  Fill         0.0          0          0   1.00       -16
               Mass ordinate for TOPSOIL = 16

29+25.00 EARTH
              Common Exc      50.5         31         31   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill        51.9         35         35   1.00       -20
          TOPSOIL
              Common Exc      14.1         10         10   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      17.2         13         13   1.00
                  Fill         0.0          0          0   1.00       -20
               Mass ordinate for TOPSOIL = 39

29+50.00 EARTH
              Common Exc     129.5         83         83   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.6         24         24   1.00        39
          TOPSOIL
              Common Exc      38.9         25         25   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.6          8          8   1.00
                  Fill         0.0          0          0   1.00        39
               Mass ordinate for TOPSOIL = 72
```

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
EARTH			
Common Exc	125	125	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00

```
                          Fill             86         86   1.00
       TOPSOIL
                    Common Exc             40         40   1.00
                  Subgrade Exc              0          0   1.00
                   Subsoil Exc             32         32   1.00
                      Fill                  0          0   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.)

       --------------------------- ---------- ---------- -------------
------------ ------
       EARTH
                    Common Exc        125        125             0
 0   1.00
                  Subgrade Exc          0          0             0
 0   1.00
                   Subsoil Exc          0          0             0
 0   1.00
                      Fill             86         86             0
 0   1.00
       TOPSOIL
                    Common Exc         40         40             0
 0   1.00
                  Subgrade Exc          0          0             0
 0   1.00
                   Subsoil Exc         32         32             0
 0   1.00
                      Fill              0          0             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 = 29+33.47
       EARTH
                    Common Exc         70         70         70         70
1.00
                  Subgrade Exc          0          0          0          0
```

1.00						
		Subsoil	Exc	0	0	0	0
1.00						
		Fill		70	70	70	70
1.00						
	TOPSOIL						
		Common	Exc	23	23	23	23
1.00						
		Subgrade	Exc	0	0	0	0
1.00						
		Subsoil	Exc	27	27	27	27
1.00						
		Fill		0	0	0	0
1.00						

```
Input  File: ewkprj.inp
Output File: Hampton.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268HamptonXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = HamptonEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = HAMPTON
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 38+50.00 R 1
 1    81    81         end sta = 39+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = HAMPTON
COMPUTING EARTHWORKS FOR JOB = 268
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
39+00.00	EARTH					
	Common Exc	42.9	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	0
	TOPSOIL					

```
              Common Exc       3.8          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        0
               Mass ordinate for TOPSOIL = 0

   39+25.00 EARTH
              Common Exc      61.8         48         48   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.8          0          0   1.00       48
          TOPSOIL
              Common Exc       8.1          6          6   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.8          0          0   1.00
                  Fill         0.0          0          0   1.00       48
               Mass ordinate for TOPSOIL = 6

   39+50.00 EARTH
              Common Exc     154.2        100        100   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.4          1          1   1.00      147
          TOPSOIL
              Common Exc      19.4         13         13   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.4          1          1   1.00
                  Fill         0.0          0          0   1.00      147
               Mass ordinate for TOPSOIL = 20
↟                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.)
     ---------------------------- ---------- ---------- ------
     EARTH
                        Common Exc        148        148   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          0          0   1.00
                          Fill              1          1   1.00
     TOPSOIL
                        Common Exc         19         19   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          1          1   1.00
                          Fill              0          0   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 (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Factor
EARTH						
	Common Exc	148	148	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	1	1	0	0	1.00
TOPSOIL						
	Common Exc	19	19	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	1	1	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Blanton.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268BlantonXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = BlantonEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = BLANTON
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 47+50.00 R 1
 1    81    81         end sta = 49+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = BLANTON
COMPUTING EARTHWORKS FOR JOB = 268
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
48+25.00	EARTH					
	Common Exc	51.5	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	10.3	0	0	1.00	0
	TOPSOIL					

	Common Exc	3.1	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	6.1	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
48+50.00	EARTH					
	Common Exc	47.7	46	46	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	11.3	10	10	1.00	36
	TOPSOIL					
	Common Exc	3.1	3	3	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	6.2	6	6	1.00	
	Fill	0.0	0	0	1.00	36
	Mass ordinate for TOPSOIL = 9					
48+75.00	EARTH					
	Common Exc	42.3	42	42	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	9.4	10	10	1.00	68
	TOPSOIL					
	Common Exc	3.1	3	3	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	5.1	5	5	1.00	
	Fill	0.0	0	0	1.00	68
	Mass ordinate for TOPSOIL = 17					
49+00.00	EARTH					
	Common Exc	45.7	41	41	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.5	5	5	1.00	104
	TOPSOIL					
	Common Exc	3.2	3	3	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.1	3	3	1.00	
	Fill	0.0	0	0	1.00	104
	Mass ordinate for TOPSOIL = 23					
49+25.00	EARTH					
	Common Exc	58.2	48	48	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.8	2	2	1.00	150
	TOPSOIL					
	Common Exc	6.8	5	5	1.00	
	Subgrade Exc	0.0	0	0	1.00	

```
              Subsoil Exc       1.7          1          1   1.00
                   Fill         0.0          0          0   1.00      150
               Mass ordinate for TOPSOIL = 29

   49+50.00 EARTH
               Common Exc      81.3         65         65   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          0          0   1.00
                   Fill        42.7         21         21   1.00      194
           TOPSOIL
               Common Exc      20.9         13         13   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc      12.6          7          7   1.00
                   Fill         0.0          0          0   1.00      194
               Mass ordinate for TOPSOIL = 49
↟                 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.)
        --------------------------- ---------- ---------- ------
        EARTH
                          Common Exc        242        242   1.00
                        Subgrade Exc          0          0   1.00
                         Subsoil Exc          0          0   1.00
                            Fill             48         48   1.00
        TOPSOIL
                          Common Exc         27         27   1.00
                        Subgrade Exc          0          0   1.00
                         Subsoil Exc         22         22   1.00
                            Fill              0          0   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.)

        --------------------------- ---------- ---------- -------------
------------- ------
        EARTH
                          Common Exc        242        242             0
 0   1.00
                        Subgrade Exc          0          0             0
 0   1.00
                         Subsoil Exc          0          0             0
 0   1.00
                            Fill             48         48             0
```

0 1.00
TOPSOIL
Common Exc 27 27 0
0 1.00
Subgrade Exc 0 0 0
0 1.00
Subsoil Exc 22 22 0
0 1.00
Fill 0 0 0
0 1.00

```
Input  File: ewkprj.inp
Output File: wiltshire.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268WiltshireXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = WiltshireEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = WILLSHIRE
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 60+50.00 R 1
 1    81    81         end sta = 62+75.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WILLSHIRE
COMPUTING EARTHWORKS FOR JOB = 268
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
60+50.00	EARTH					
	Common Exc	205.4	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	2.8	0	0	1.00	0
	TOPSOIL					

	Common Exc	25.5	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.3	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
60+75.00	EARTH					
	Common Exc	185.2	181	181	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	2	2	1.00	179
	TOPSOIL					
	Common Exc	18.7	20	20	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	179
	Mass ordinate for TOPSOIL = 21					
61+00.00	EARTH					
	Common Exc	159.7	160	160	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	338
	TOPSOIL					
	Common Exc	9.9	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	338
	Mass ordinate for TOPSOIL = 35					
61+25.00	EARTH					
	Common Exc	154.3	145	145	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	482
	TOPSOIL					
	Common Exc	10.5	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	482
	Mass ordinate for TOPSOIL = 45					
61+50.00	EARTH					
	Common Exc	131.9	133	133	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	1	1	1.00	614
	TOPSOIL					
	Common Exc	8.1	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	

		Subsoil Exc	0.7	1	1	1.00	
		Fill	0.0	0	0	1.00	614
		Mass ordinate for TOPSOIL = 55					
61+75.00	EARTH						
		Common Exc	103.9	109	109	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	0.0	0	0	1.00	
		Fill	1.0	1	1	1.00	722
	TOPSOIL						
		Common Exc	7.6	7	7	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	1.0	1	1	1.00	
		Fill	0.0	0	0	1.00	722
		Mass ordinate for TOPSOIL = 63					
62+00.00	EARTH						
		Common Exc	78.7	85	85	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	0.0	0	0	1.00	
		Fill	0.9	1	1	1.00	806
	TOPSOIL						
		Common Exc	5.4	6	6	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	0.9	1	1	1.00	
		Fill	0.0	0	0	1.00	806
		Mass ordinate for TOPSOIL = 70					
62+25.00	EARTH						
		Common Exc	61.7	65	65	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	0.0	0	0	1.00	
		Fill	0.7	1	1	1.00	870
	TOPSOIL						
		Common Exc	3.3	4	4	1.00	
		Subgrade Exc	0.0	0	0	1.00	
		Subsoil Exc	0.7	1	1	1.00	
		Fill	0.0	0	0	1.00	870
		Mass ordinate for TOPSOIL = 75					

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
EARTH			
Common Exc	878	878	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	8	8	1.00
TOPSOIL			

Common Exc	68	68	1.00	
Subgrade Exc	0	0	1.00	
Subsoil Exc	7	7	1.00	
Fill	0	0	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
EARTH					
Common Exc	878	878	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
TOPSOIL					
Common Exc	68	68	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	7	7	0	0	1.00
Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Somer.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268SomersetXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = SomerEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = SOMERSET
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 70+50.00 R 1
 1    81    81         end sta = 71+75.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SOMERSET
COMPUTING EARTHWORKS FOR JOB = 268
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
70+50.00	EARTH					
	Common Exc	119.2	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	14.1	0	0	1.00	0
	TOPSOIL					

```
              Common Exc      18.7          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       8.8          0          0   1.00
                  Fill         0.0          0          0   1.00        0
               Mass ordinate for TOPSOIL = 0

70+75.00 EARTH
              Common Exc      86.8         95         95   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill        14.6         13         13   1.00       82
          TOPSOIL
              Common Exc       8.0         12         12   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       7.8          8          8   1.00
                  Fill         0.0          0          0   1.00       82
               Mass ordinate for TOPSOIL = 20

71+00.00 EARTH
              Common Exc      63.1         69         69   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.7          7          7   1.00      144
          TOPSOIL
              Common Exc       3.6          5          5   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.6          4          4   1.00
                  Fill         0.0          0          0   1.00      144
               Mass ordinate for TOPSOIL = 29
↟                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.)
     ---------------------------- ---------- ---------- ------
     EARTH
                       Common Exc        164        164   1.00
                     Subgrade Exc          0          0   1.00
                      Subsoil Exc          0          0   1.00
                         Fill             20         20   1.00
     TOPSOIL
                       Common Exc         17         17   1.00
                     Subgrade Exc          0          0   1.00
                      Subsoil Exc         12         12   1.00
                         Fill              0          0   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 (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Factor
EARTH						
	Common Exc	164	164	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	20	20	0	0	1.00
TOPSOIL						
	Common Exc	17	17	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	12	12	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Breckenridge.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268BreckenridgeXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6-8,18
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = BreckenridgeEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = BRECKENRIDGE
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 80+50.00 R 1
 1    81    81         end sta = 84+00.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = BRECKENRIDGE
COMPUTING EARTHWORKS FOR JOB = 268
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
80+50.00	EARTH					
	Common Exc	8.3	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	96.1	0	0	1.00	0
	TOPSOIL					

	Common Exc	6.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	27.1	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
80+75.00	EARTH					
	Common Exc	27.9	17	17	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	117.0	99	99	1.00	-82
	TOPSOIL					
	Common Exc	13.7	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	35.9	29	29	1.00	
	Fill	0.0	0	0	1.00	-82
	Mass ordinate for TOPSOIL = 38					
81+00.00	EARTH					
	Common Exc	4.5	15	15	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	51.8	78	78	1.00	-145
	TOPSOIL					
	Common Exc	8.8	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	19.5	26	26	1.00	
	Fill	0.0	0	0	1.00	-145
	Mass ordinate for TOPSOIL = 74					
81+25.00	EARTH					
	Common Exc	15.6	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	106.3	73	73	1.00	-209
	TOPSOIL					
	Common Exc	8.3	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	22.1	19	19	1.00	
	Fill	0.0	0	0	1.00	-209
	Mass ordinate for TOPSOIL = 101					
81+50.00	EARTH					
	Common Exc	45.6	28	28	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	52.7	74	74	1.00	-255
	TOPSOIL					
	Common Exc	13.3	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	

	Subsoil Exc	14.7	17	17	1.00	
	Fill	0.0	0	0	1.00	-255
	Mass ordinate for TOPSOIL = 128					
81+75.00	EARTH					
	Common Exc	42.4	41	41	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	46.1	46	46	1.00	-260
	TOPSOIL					
	Common Exc	13.8	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	14.7	14	14	1.00	
	Fill	0.0	0	0	1.00	-260
	Mass ordinate for TOPSOIL = 155					
82+00.00	EARTH					
	Common Exc	56.1	46	46	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	31.4	36	36	1.00	-250
	TOPSOIL					
	Common Exc	14.2	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	11.0	12	12	1.00	
	Fill	0.0	0	0	1.00	-250
	Mass ordinate for TOPSOIL = 180					
82+25.00	EARTH					
	Common Exc	54.7	51	51	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	24.9	26	26	1.00	-225
	TOPSOIL					
	Common Exc	13.5	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.4	11	11	1.00	
	Fill	0.0	0	0	1.00	-225
	Mass ordinate for TOPSOIL = 204					
82+50.00	EARTH					
	Common Exc	81.4	63	63	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.4	12	12	1.00	-174
	TOPSOIL					
	Common Exc	13.6	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.4	6	6	1.00	
	Fill	0.0	0	0	1.00	-174

	Mass ordinate for TOPSOIL = 223					
82+75.00	EARTH					
	Common Exc	55.0	63	63	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.4	0	0	1.00	-111
	TOPSOIL					
	Common Exc	9.8	11	11	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.4	0	0	1.00	
	Fill	0.0	0	0	1.00	-111
	Mass ordinate for TOPSOIL = 234					
83+00.00	EARTH					
	Common Exc	52.0	50	50	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	7.0	3	3	1.00	-64
	TOPSOIL					
	Common Exc	8.9	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.6	1	1	1.00	
	Fill	0.0	0	0	1.00	-64
	Mass ordinate for TOPSOIL = 244					
83+25.00	EARTH					
	Common Exc	37.6	41	41	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	6.4	6	6	1.00	-29
	TOPSOIL					
	Common Exc	5.8	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	4.2	3	3	1.00	
	Fill	0.0	0	0	1.00	-29
	Mass ordinate for TOPSOIL = 254					

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
EARTH			
Common Exc	424	424	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	453	453	1.00
TOPSOIL			
Common Exc	116	116	1.00
Subgrade Exc	0	0	1.00

Subsoil Exc	138	138	1.00	
Fill	0	0	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
EARTH					
Common Exc	424	424	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	0	0	0	0	1.00
Fill	453	453	0	0	1.00
TOPSOIL					
Common Exc	116	116	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	138	138	0	0	1.00
Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: SulpherSprings.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268SulphurSpringsXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = SulpherSpringsEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = SULPHUR-SPRGS
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 103+25.00 R 1
 1    81    81         end sta = 110+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SULPHUR-SPRGS
COMPUTING EARTHWORKS FOR JOB = 268
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
104+00.00	EARTH					
	Common Exc	64.1	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	2.9	0	0	1.00	0
	TOPSOIL					

	Common Exc	4.5	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.9	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
104+25.00	EARTH					
	Common Exc	64.6	60	60	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	10.0	6	6	1.00	54
	TOPSOIL					
	Common Exc	5.2	4	4	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	7.1	4	4	1.00	
	Fill	0.0	0	0	1.00	54
	Mass ordinate for TOPSOIL = 8					
104+50.00	EARTH					
	Common Exc	65.6	60	60	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	45.3	26	26	1.00	88
	TOPSOIL					
	Common Exc	14.8	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	15.6	11	11	1.00	
	Fill	0.0	0	0	1.00	88
	Mass ordinate for TOPSOIL = 28					
105+50.00	EARTH					
	Common Exc	54.8	223	223	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	135.6	335	335	1.00	-24
	TOPSOIL					
	Common Exc	9.0	44	44	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	25.9	77	77	1.00	
	Fill	0.0	0	0	1.00	-24
	Mass ordinate for TOPSOIL = 149					
105+75.00	EARTH					
	Common Exc	56.0	51	51	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	83.9	102	102	1.00	-75
	TOPSOIL					
	Common Exc	4.5	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	

	Subsoil Exc	16.3	20	20	1.00	
	Fill	0.0	0	0	1.00	-75
	Mass ordinate for TOPSOIL = 175					
106+00.00	EARTH					
	Common Exc	70.0	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	84.4	78	78	1.00	-95
	TOPSOIL					
	Common Exc	10.2	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	19.7	17	17	1.00	
	Fill	0.0	0	0	1.00	-95
	Mass ordinate for TOPSOIL = 199					
106+25.00	EARTH					
	Common Exc	63.6	62	62	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	75.5	74	74	1.00	-107
	TOPSOIL					
	Common Exc	7.6	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	18.7	18	18	1.00	
	Fill	0.0	0	0	1.00	-107
	Mass ordinate for TOPSOIL = 225					
106+50.00	EARTH					
	Common Exc	62.5	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	73.2	69	69	1.00	-118
	TOPSOIL					
	Common Exc	5.2	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	18.5	17	17	1.00	
	Fill	0.0	0	0	1.00	-118
	Mass ordinate for TOPSOIL = 248					
106+75.00	EARTH					
	Common Exc	62.7	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	64.1	64	64	1.00	-124
	TOPSOIL					
	Common Exc	4.7	5	5	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	16.3	16	16	1.00	
	Fill	0.0	0	0	1.00	-124

	Mass ordinate for TOPSOIL = 269					
107+00.00	EARTH					
	Common Exc	63.4	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	49.5	53	53	1.00	-119
	TOPSOIL					
	Common Exc	6.1	5	5	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	14.2	14	14	1.00	
	Fill	0.0	0	0	1.00	-119
	Mass ordinate for TOPSOIL = 288					
107+25.00	EARTH					
	Common Exc	61.2	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	31.0	37	37	1.00	-98
	TOPSOIL					
	Common Exc	7.7	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	11.9	12	12	1.00	
	Fill	0.0	0	0	1.00	-98
	Mass ordinate for TOPSOIL = 306					
107+50.00	EARTH					
	Common Exc	63.1	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	18.0	23	23	1.00	-63
	TOPSOIL					
	Common Exc	11.6	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	9.1	10	10	1.00	
	Fill	0.0	0	0	1.00	-63
	Mass ordinate for TOPSOIL = 325					
107+75.00	EARTH					
	Common Exc	62.7	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	26.9	21	21	1.00	-26
	TOPSOIL					
	Common Exc	9.0	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	11.9	10	10	1.00	
	Fill	0.0	0	0	1.00	-26
	Mass ordinate for TOPSOIL = 345					

108+00.00	EARTH					
	Common Exc	59.2	56	56	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	28.5	26	26	1.00	4
	TOPSOIL					
	Common Exc	9.2	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.2	11	11	1.00	
	Fill	0.0	0	0	1.00	4
	Mass ordinate for TOPSOIL = 364					
108+25.00	EARTH					
	Common Exc	54.3	53	53	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	29.7	27	27	1.00	30
	TOPSOIL					
	Common Exc	9.3	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.1	11	11	1.00	
	Fill	0.0	0	0	1.00	30
	Mass ordinate for TOPSOIL = 384					
108+50.00	EARTH					
	Common Exc	52.5	49	49	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	31.0	28	28	1.00	51
	TOPSOIL					
	Common Exc	9.5	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.3	11	11	1.00	
	Fill	0.0	0	0	1.00	51
	Mass ordinate for TOPSOIL = 404					
108+75.00	EARTH					
	Common Exc	50.8	48	48	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	36.5	31	31	1.00	68
	TOPSOIL					
	Common Exc	9.1	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	13.3	12	12	1.00	
	Fill	0.0	0	0	1.00	68
	Mass ordinate for TOPSOIL = 425					
109+00.00	EARTH					
	Common Exc	49.9	47	47	1.00	

	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	30.9	31	31	1.00	84
	TOPSOIL					
	Common Exc	10.3	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.6	12	12	1.00	
	Fill	0.0	0	0	1.00	84
	Mass ordinate for TOPSOIL = 446					
109+25.00	EARTH					
	Common Exc	38.4	41	41	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	38.1	32	32	1.00	93
	TOPSOIL					
	Common Exc	9.1	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	14.5	13	13	1.00	
	Fill	0.0	0	0	1.00	93
	Mass ordinate for TOPSOIL = 468					
109+50.00	EARTH					
	Common Exc	32.4	33	33	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	66.4	48	48	1.00	78
	TOPSOIL					
	Common Exc	8.2	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	18.1	15	15	1.00	
	Fill	0.0	0	0	1.00	78
	Mass ordinate for TOPSOIL = 491					
109+75.00	EARTH					
	Common Exc	34.4	31	31	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	72.7	64	64	1.00	45
	TOPSOIL					
	Common Exc	7.5	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	18.5	17	17	1.00	
	Fill	0.0	0	0	1.00	45
	Mass ordinate for TOPSOIL = 515					

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

EARTH				
	Common Exc	1220	1220	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	1175	1175	1.00
TOPSOIL				
	Common Exc	187	187	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	328	328	1.00
	Fill	0	0	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
EARTH						
	Common Exc	1220	1220	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	1175	1175	0	0	1.00
TOPSOIL						
	Common Exc	187	187	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	328	328	0	0	1.00
	Fill	0	0	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 Unadjusted Volumes (cu. yd.)	Cumulative Adjusted Volumes (cu. yd.)	Incremental Unadjusted Volumes (cu. yd.)	Incremental Adjusted Volumes (cu. yd.)	Mult Factor

Station = 105+28.57

EARTH

Common	Exc	295	295	295	295
1.00					
Subgrade	Exc	0	0	0	0
1.00					
Subsoil	Exc	0	0	0	0
1.00					
Fill		295	295	295	295
1.00					

TOPSOIL

Common	Exc	48	48	48	48
1.00					
Subgrade	Exc	0	0	0	0
1.00					
Subsoil	Exc	76	76	76	76
1.00					
Fill		0	0	0	0
1.00					

Station = 107+96.67

EARTH

Common	Exc	911	911	616	616
1.00					
Subgrade	Exc	0	0	0	0
1.00					
Subsoil	Exc	0	0	0	0
1.00					
Fill		911	911	616	616
1.00					

TOPSOIL

Common	Exc	126	126	78	78
1.00					
Subgrade	Exc	0	0	0	0
1.00					
Subsoil	Exc	236	236	160	160
1.00					
Fill		0	0	0	0
1.00					

```
Input  File: ewkprj.inp
Output File: EastPrimm.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268E_PrimmLaneXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6-8,18
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = EastPrimmEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = EAST-PRIMM
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 108+00.00 R 1
 1    81    81         end sta = 109+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = EAST-PRIMM
COMPUTING EARTHWORKS FOR JOB = 268
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
108+50.00	EARTH					
	Common Exc	45.1	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	0	0	1.00	0
	TOPSOIL					

	Common Exc	13.8	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.7	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
108+75.00	EARTH					
	Common Exc	58.7	48	48	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.9	1	1	1.00	47
	TOPSOIL					
	Common Exc	15.7	14	14	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.9	1	1	1.00	
	Fill	0.0	0	0	1.00	47
	Mass ordinate for TOPSOIL = 15					
109+00.00	EARTH					
	Common Exc	55.3	53	53	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	99
	TOPSOIL					
	Common Exc	14.8	14	14	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	99
	Mass ordinate for TOPSOIL = 30					
109+25.00	EARTH					
	Common Exc	55.5	51	51	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	5.4	3	3	1.00	147
	TOPSOIL					
	Common Exc	15.0	14	14	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	4.0	2	2	1.00	
	Fill	0.0	0	0	1.00	147
	Mass ordinate for TOPSOIL = 46					
109+50.00	EARTH					
	Common Exc	27.9	39	39	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	6.5	6	6	1.00	180
	TOPSOIL					
	Common Exc	10.9	12	12	1.00	
	Subgrade Exc	0.0	0	0	1.00	

Subsoil Exc	3.4	3	3	1.00	
Fill	0.0	0	0	1.00	180

Mass ordinate for TOPSOIL = 61

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
EARTH				
	Common Exc	191	191	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	11	11	1.00
TOPSOIL				
	Common Exc	54	54	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	7	7	1.00
	Fill	0	0	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
EARTH						
	Common Exc	191	191	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	11	11	0	0	1.00
TOPSOIL						
	Common Exc	54	54	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	7	7	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Satinwood.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268SatinwoodXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = ByLevel
 1    30    30             wt = ByLevel
 1    31    31             co = ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = SatinwoodEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = SATINWOOD
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 118+75.00 R 1
 1    81    81         end sta = 119+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SATINWOOD
COMPUTING EARTHWORKS FOR JOB = 268
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
119+25.00	EARTH					
	Common Exc	80.3	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	5.3	0	0	1.00	0
	TOPSOIL					

```
              Common Exc      14.5          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       4.4          0          0   1.00
                  Fill         0.0          0          0   1.00        0
               Mass ordinate for TOPSOIL = 0

  119+50.00 EARTH
              Common Exc     102.7         85         85   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill        42.1         22         22   1.00       63
           TOPSOIL
              Common Exc       9.7         11         11   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      12.4          8          8   1.00
                  Fill         0.0          0          0   1.00       63
               Mass ordinate for TOPSOIL = 19
↟                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.)
       --------------------------- ---------- ---------- ------
       EARTH
                         Common Exc         85         85   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill             22         22   1.00
       TOPSOIL
                         Common Exc         11         11   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          8          8   1.00
                           Fill             0          0   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.)

       --------------------------- ---------- ---------- -------------
------------- ------
       EARTH
                         Common Exc         85         85             0
 0   1.00
                       Subgrade Exc          0          0             0
 0   1.00
                        Subsoil Exc          0          0             0
```

0 1.00

Fill	22	22	0

0 1.00

TOPSOIL

Common Exc	11	11	0

0 1.00

Subgrade Exc	0	0	0

0 1.00

Subsoil Exc	8	8	0

0 1.00

Fill	0	0	0

0 1.00

```
Input  File: ewkprj.inp
Output File: Pennington.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268PenningtonXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lvname = DESIGN - TYPICAL - Text
 1    19    19             lc = 0
 1    20    20             wt = 2,4
 1    21    21             co = 1-2,6,8
 1    22    22
 1    23    23     Existing Ground Line
 1    24    24         soil type = EARTH
 1    25    25         roadway exc mult factor = 1.000000
 1    26    26         subsoil exc mult factor = 1.000000
 1    27    27         fill mult factor = 1.000000
 1    28    28             type = line, line_string
 1    29    29             lvname = SURVEY - GROUND - Top of Ground
 1    30    30             lc = ByLevel
 1    31    31             wt = ByLevel
 1    32    32             co = ByLevel
 1    33    33
 1    34    34     Existing Unsuitable Material
 1    35    35         soil type = TOPSOIL
 1    36    36         roadway exc mult factor = 1.000000
 1    37    37         subsoil exc mult factor = 1.000000
 1    38    38         fill mult factor = 1.000000
 1    39    39             type = line, line_string
 1    40    40             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    41    41             lc = 2
 1    42    42             wt = 2
 1    43    43             co = 2
 1    44    44
 1    45    45     Excavation Limit
 1    46    46             type = line
 1    47    47             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
```

```
 1    48    48             lc = 0
 1    49    49             wt = 0
 1    50    50             co = 0
 1    51    51
 1    52    52     Write Earthwork Shapes
 1    53    53         plot param
 1    54    54             lv = 347
 1    55    55             lvname = DESIGN - EARTHWORK - Shapes
 1    56    56             co = ByLevel
 1    57    57             wt = ByLevel
 1    58    58             lc = ByLevel
 1    59    59             Stratify Shape Color
 1    60    60
 1    61    61     End Area Decimal Places = 1
 1    62    62
 1    63    63     write column base ascii file = PenningtonEarthwork.txt
 1    64    64
 1    65    65     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    66    66     column 1 number of decimal place = 0
 1    67    67     column 1 total length = 10
 1    68    68
 1    69    69     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    70    70     column 2 number of decimal place = 0
 1    71    71     column 2 total length = 10
 1    72    72
 1    73    73     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    74    74     column 3 number of decimal place = 0
 1    75    75     column 3 total length = 10
 1    76    76
 1    77    77
 1    78    78     Process Earthwork for Baseline = PENNINGTON
 1    79    79         job number = 268
 1    80    80
 1    81    81         beg sta = 127+75.00 R 1
 1    82    82         end sta = 129+50.00 R 1
 0     0    83 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = PENNINGTON
COMPUTING EARTHWORKS FOR JOB = 268
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
128+25.00	EARTH					
	Common Exc	83.7	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.9	0	0	1.00	0

	TOPSOIL					
	Common Exc	9.4	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.9	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
128+50.00	EARTH					
	Common Exc	92.2	81	81	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	1	1	1.00	80
	TOPSOIL					
	Common Exc	12.8	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	1	1	1.00	
	Fill	0.0	0	0	1.00	80
	Mass ordinate for TOPSOIL = 11					
128+75.00	EARTH					
	Common Exc	101.9	90	90	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.8	1	1	1.00	169
	TOPSOIL					
	Common Exc	13.7	12	12	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.8	1	1	1.00	
	Fill	0.0	0	0	1.00	169
	Mass ordinate for TOPSOIL = 24					
129+00.00	EARTH					
	Common Exc	111.0	99	99	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	2.2	2	2	1.00	266
	TOPSOIL					
	Common Exc	14.6	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.2	2	2	1.00	
	Fill	0.0	0	0	1.00	266
	Mass ordinate for TOPSOIL = 39					
129+25.00	EARTH					
	Common Exc	132.1	113	113	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.9	2	2	1.00	377
	TOPSOIL					
	Common Exc	18.6	15	15	1.00	

```
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       1.9          2          2   1.00
                   Fill         0.0          0          0   1.00      377
               Mass ordinate for TOPSOIL = 56

  129+50.00 EARTH
                Common Exc     240.3        172        172   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          0          0   1.00
                   Fill         0.4          1          1   1.00      548
           TOPSOIL
                Common Exc      25.1         20         20   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.4          1          1   1.00
                   Fill         0.0          0          0   1.00      548
               Mass ordinate for TOPSOIL = 77
↟                 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.)
       --------------------------- ---------- ---------- ------
       EARTH
                         Common Exc        555        555   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          0          0   1.00
                          Fill              7          7   1.00
       TOPSOIL
                         Common Exc         70         70   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          7          7   1.00
                          Fill              0          0   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.)

       --------------------------- ---------- ---------- -------------
-------------- ------
       EARTH
                         Common Exc        555        555             0
 0   1.00
                      Subgrade Exc          0          0             0
 0   1.00
                       Subsoil Exc          0          0             0
 0   1.00
```

			Fill	7	7	0	
0	1.00						
	TOPSOIL						
			Common Exc	70	70	0	
0	1.00						
			Subgrade Exc	0	0	0	
0	1.00						
			Subsoil Exc	7	7	0	
0	1.00						
			Fill	0	0	0	
0	1.00						

```
Input  File: ewkprj.inp
Output File: Leanna.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268LeannaXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 2,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = LeannaEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = LEANNA
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 140+50.00 R 1
 1    81    81         end sta = 144+75.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = LEANNA
COMPUTING EARTHWORKS FOR JOB = 268
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
140+50.00	EARTH					
	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	190.5	0	0	1.00	0
	TOPSOIL					

	Common Exc	0.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	38.0	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
140+75.00	EARTH					
	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	196.8	179	179	1.00	-179
	TOPSOIL					
	Common Exc	0.2	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	28.7	31	31	1.00	
	Fill	0.0	0	0	1.00	-179
	Mass ordinate for TOPSOIL = 31					
141+00.00	EARTH					
	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	195.1	181	181	1.00	-360
	TOPSOIL					
	Common Exc	0.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	26.6	26	26	1.00	
	Fill	0.0	0	0	1.00	-360
	Mass ordinate for TOPSOIL = 57					
141+25.00	EARTH					
	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	181.4	174	174	1.00	-534
	TOPSOIL					
	Common Exc	0.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	26.4	25	25	1.00	
	Fill	0.0	0	0	1.00	-534
	Mass ordinate for TOPSOIL = 82					
141+50.00	EARTH					
	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	151.4	154	154	1.00	-688
	TOPSOIL					
	Common Exc	0.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	

	Subsoil Exc	25.4	24	24	1.00	
	Fill	0.0	0	0	1.00	-688
	Mass ordinate for TOPSOIL = 106					
141+75.00	EARTH					
	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	109.0	121	121	1.00	-809
	TOPSOIL					
	Common Exc	0.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	23.7	23	23	1.00	
	Fill	0.0	0	0	1.00	-809
	Mass ordinate for TOPSOIL = 129					
142+00.00	EARTH					
	Common Exc	4.9	2	2	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	69.3	83	83	1.00	-890
	TOPSOIL					
	Common Exc	1.3	1	1	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	20.6	21	21	1.00	
	Fill	0.0	0	0	1.00	-890
	Mass ordinate for TOPSOIL = 151					
142+25.00	EARTH					
	Common Exc	24.1	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	30.1	46	46	1.00	-923
	TOPSOIL					
	Common Exc	6.2	3	3	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	12.9	16	16	1.00	
	Fill	0.0	0	0	1.00	-923
	Mass ordinate for TOPSOIL = 170					
142+50.00	EARTH					
	Common Exc	29.6	25	25	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	25.1	26	26	1.00	-924
	TOPSOIL					
	Common Exc	8.5	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	9.9	11	11	1.00	
	Fill	0.0	0	0	1.00	-924

	Mass ordinate for TOPSOIL = 188					
142+75.00	EARTH					
	Common Exc	37.5	31	31	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	19.3	21	21	1.00	-914
	TOPSOIL					
	Common Exc	9.7	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	7.9	8	8	1.00	
	Fill	0.0	0	0	1.00	-914
	Mass ordinate for TOPSOIL = 204					
143+00.00	EARTH					
	Common Exc	43.0	37	37	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	13.4	15	15	1.00	-892
	TOPSOIL					
	Common Exc	10.1	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	6.8	7	7	1.00	
	Fill	0.0	0	0	1.00	-892
	Mass ordinate for TOPSOIL = 220					
143+25.00	EARTH					
	Common Exc	54.4	45	45	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	9.1	10	10	1.00	-857
	TOPSOIL					
	Common Exc	10.0	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	6.7	6	6	1.00	
	Fill	0.0	0	0	1.00	-857
	Mass ordinate for TOPSOIL = 235					
143+50.00	EARTH					
	Common Exc	60.3	53	53	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	5	5	1.00	-809
	TOPSOIL					
	Common Exc	18.1	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.7	3	3	1.00	
	Fill	0.0	0	0	1.00	-809
	Mass ordinate for TOPSOIL = 251					

143+75.00	EARTH					
	Common Exc	64.5	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	1	1	1.00	-752
	TOPSOIL					
	Common Exc	17.0	16	16	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.7	1	1	1.00	
	Fill	0.0	0	0	1.00	-752
	Mass ordinate for TOPSOIL = 268					
144+00.00	EARTH					
	Common Exc	57.8	57	57	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	1	1	1.00	-696
	TOPSOIL					
	Common Exc	15.2	15	15	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.7	1	1	1.00	
	Fill	0.0	0	0	1.00	-696
	Mass ordinate for TOPSOIL = 284					
144+25.00	EARTH					
	Common Exc	51.3	51	51	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.7	1	1	1.00	-646
	TOPSOIL					
	Common Exc	13.0	13	13	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.7	1	1	1.00	
	Fill	0.0	0	0	1.00	-646
	Mass ordinate for TOPSOIL = 298					

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
EARTH			
Common Exc	372	372	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00
Fill	1018	1018	1.00
TOPSOIL			
Common Exc	94	94	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	204	204	1.00
Fill	0	0	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
EARTH						
	Common Exc	372	372	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	1018	1018	0	0	1.00
TOPSOIL						
	Common Exc	94	94	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	204	204	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Windsorgreen.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268WindsorGreenXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 2,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = WindsorgreenEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = WINDSOR-GREEN
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 148+50.00 R 1
 1    81    81         end sta = 149+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WINDSOR-GREEN
COMPUTING EARTHWORKS FOR JOB = 268
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
149+25.00	EARTH					
	Common Exc	54.7	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	30.4	0	0	1.00	0
	TOPSOIL					

```
              Common Exc       2.9          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      15.3          0          0   1.00
                  Fill         0.0          0          0   1.00        0
              Mass ordinate for TOPSOIL = 0

  149+50.00 EARTH
              Common Exc      67.6         57         57   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill        92.1         57         57   1.00        0
          TOPSOIL
              Common Exc       8.8          5          5   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc      22.9         18         18   1.00
                  Fill         0.0          0          0   1.00        0
              Mass ordinate for TOPSOIL = 23
↟               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.)
      --------------------------- ---------- ---------- ------
      EARTH
                        Common Exc         57         57   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          0          0   1.00
                          Fill             57         57   1.00
      TOPSOIL
                        Common Exc          5          5   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc         18         18   1.00
                          Fill              0          0   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.)

      --------------------------- ---------- ---------- -------------
------------- ------
      EARTH
                        Common Exc         57         57             0
 0   1.00
                      Subgrade Exc          0          0             0
 0   1.00
                       Subsoil Exc          0          0             0
```

```
 0   1.00
                            Fill             57         57             0
 0   1.00
       TOPSOIL
                          Common Exc          5          5             0
 0   1.00
                        Subgrade Exc          0          0             0
 0   1.00
                         Subsoil Exc         18         18             0
 0   1.00
                            Fill             0          0             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 Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Factor
Station = -00000000+01.#J						
EARTH						
	Common Exc	57	57	57	57	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	57	57	57	57	1.00
TOPSOIL						
	Common Exc	5	5	5	5	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	18	18	18	18	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: JohnRich.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268JohnRichardsXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,161
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = JohnRichEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = JOHN-RICHARDS
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 220+00.00 R 1
 1    81    81         end sta = 221+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = JOHN-RICHARDS
COMPUTING EARTHWORKS FOR JOB = 268
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
220+50.00	EARTH					
	Common Exc	85.3	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	0	0	1.00	0
	TOPSOIL					

```
              Common Exc      10.8          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.8          0          0   1.00
                  Fill         0.0          0          0   1.00        0
               Mass ordinate for TOPSOIL = 0

220+75.00 EARTH
              Common Exc      74.8         74         74   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         1.1          1          1   1.00       73
          TOPSOIL
              Common Exc      10.6         10         10   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       1.1          1          1   1.00
                  Fill         0.0          0          0   1.00       73
               Mass ordinate for TOPSOIL = 11

220+85.00 EARTH
              Common Exc      68.0         26         26   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         1.1          0          0   1.00       99
          TOPSOIL
              Common Exc       9.9          4          4   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       1.1          0          0   1.00
                  Fill         0.0          0          0   1.00       99
               Mass ordinate for TOPSOIL = 15
↟                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.)
      --------------------------- ---------- ---------- ------
      EARTH
                        Common Exc        100        100   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          0          0   1.00
                          Fill              1          1   1.00
      TOPSOIL
                        Common Exc         14         14   1.00
                      Subgrade Exc          0          0   1.00
                       Subsoil Exc          1          1   1.00
                          Fill              0          0   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 (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Factor
EARTH						
	Common Exc	100	100	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	1	1	0	0	1.00
TOPSOIL						
	Common Exc	14	14	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	1	1	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Winterfell.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268WinterfellXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = WinterfellEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = WINTERFELL
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 230+00.00 R 1
 1    81    81         end sta = 231+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = WINTERFELL
COMPUTING EARTHWORKS FOR JOB = 268
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
230+50.00	EARTH					
	Common Exc	72.9	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.5	0	0	1.00	0
	TOPSOIL					

```
              Common Exc       3.4          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.5          0          0   1.00
                  Fill         0.0          0          0   1.00        0
              Mass ordinate for TOPSOIL = 0

  230+64.00 EARTH
              Common Exc      66.9         36         36   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.3          0          0   1.00       36
          TOPSOIL
              Common Exc       3.0          2          2   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.3          0          0   1.00
                  Fill         0.0          0          0   1.00       36
              Mass ordinate for TOPSOIL = 2
↟               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.)
       --------------------------- ---------- ---------- ------
       EARTH
                         Common Exc         36         36   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill              0          0   1.00
       TOPSOIL
                         Common Exc          2          2   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill              0          0   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.)

       --------------------------- ---------- ---------- -------------
------------- ------
       EARTH
                         Common Exc         36         36             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					
	TOPSOIL					
		Common	Exc	2	2	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					

```
Input  File: ewkprj.inp
Output File: Northboro.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268NorthboroCourtXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = NorthboroEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = NORTHBORO-CT
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 160+50.00 R 1
 1    81    81         end sta = 161+25.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = NORTHBORO-CT
COMPUTING EARTHWORKS FOR JOB = 268
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
160+50.00	EARTH					
	Common Exc	55.0	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	5.5	0	0	1.00	0
	TOPSOIL					

Common Exc	14.3	0	0	1.00	
Subgrade Exc	0.0	0	0	1.00	
Subsoil Exc	4.5	0	0	1.00	
Fill	0.0	0	0	1.00	0

Mass ordinate for TOPSOIL = 0

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
EARTH				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	0	0	1.00
TOPSOIL				
	Common Exc	0	0	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	0	0	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
EARTH						
	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
TOPSOIL						
	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

```
Input  File: ewkprj.inp
Output File: Siegal.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268SiegelRoadXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = SiegalEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = SIEGEL
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 167+25.00 R 1
 1    81    81         end sta = 169+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = SIEGEL
COMPUTING EARTHWORKS FOR JOB = 268
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
167+37.67	EARTH					
	Common Exc	55.9	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	8.4	0	0	1.00	0
	TOPSOIL					

	Common Exc	6.8	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	7.0	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
167+50.00	EARTH					
	Common Exc	54.3	25	25	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	8.2	4	4	1.00	21
	TOPSOIL					
	Common Exc	5.8	3	3	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	7.0	3	3	1.00	
	Fill	0.0	0	0	1.00	21
	Mass ordinate for TOPSOIL = 6					
167+75.00	EARTH					
	Common Exc	59.3	53	53	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	13.7	10	10	1.00	64
	TOPSOIL					
	Common Exc	7.2	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	9.1	7	7	1.00	
	Fill	0.0	0	0	1.00	64
	Mass ordinate for TOPSOIL = 19					
168+00.00	EARTH					
	Common Exc	65.3	58	58	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	14.2	13	13	1.00	109
	TOPSOIL					
	Common Exc	9.1	8	8	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	9.0	8	8	1.00	
	Fill	0.0	0	0	1.00	109
	Mass ordinate for TOPSOIL = 35					
168+25.00	EARTH					
	Common Exc	70.1	63	63	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	14.5	13	13	1.00	159
	TOPSOIL					
	Common Exc	10.8	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	

	Subsoil Exc	8.5	8	8	1.00	
	Fill	0.0	0	0	1.00	159
	Mass ordinate for TOPSOIL = 52					
168+50.00	EARTH					
	Common Exc	71.5	66	66	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	20.0	16	16	1.00	209
	TOPSOIL					
	Common Exc	11.7	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	9.3	8	8	1.00	
	Fill	0.0	0	0	1.00	209
	Mass ordinate for TOPSOIL = 70					
168+75.00	EARTH					
	Common Exc	74.3	68	68	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	16.1	17	17	1.00	260
	TOPSOIL					
	Common Exc	12.0	11	11	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	8.7	8	8	1.00	
	Fill	0.0	0	0	1.00	260
	Mass ordinate for TOPSOIL = 89					
169+00.00	EARTH					
	Common Exc	76.5	70	70	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	11.5	13	13	1.00	317
	TOPSOIL					
	Common Exc	12.2	11	11	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	6.9	7	7	1.00	
	Fill	0.0	0	0	1.00	317
	Mass ordinate for TOPSOIL = 107					
169+25.00	EARTH					
	Common Exc	84.8	75	75	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	30.0	19	19	1.00	373
	TOPSOIL					
	Common Exc	14.1	12	12	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	14.4	10	10	1.00	
	Fill	0.0	0	0	1.00	373

```
               Mass ordinate for TOPSOIL = 129

  169+50.00 EARTH
               Common Exc     169.8        118        118   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          0          0   1.00
                   Fill         0.0         14         14   1.00      477
           TOPSOIL
               Common Exc       7.1         10         10   1.00
             Subgrade Exc       0.0          0          0   1.00
              Subsoil Exc       0.0          7          7   1.00
                   Fill         0.0          0          0   1.00      477
               Mass ordinate for TOPSOIL = 146
↟                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.)
       ---------------------------- ---------- ---------- ------
       EARTH
                         Common Exc        596        596   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill            119        119   1.00
       TOPSOIL
                         Common Exc         80         80   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc         66         66   1.00
                           Fill             0          0   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.)

       ---------------------------- ---------- ---------- -------------
------------- ------
       EARTH
                         Common Exc        596        596             0
 0   1.00
                       Subgrade Exc          0          0             0
 0   1.00
                        Subsoil Exc          0          0             0
 0   1.00
                           Fill            119        119             0
 0   1.00
       TOPSOIL
```

		Common	Exc	80	80	0
0	1.00					
		Subgrade	Exc	0	0	0
0	1.00					
		Subsoil	Exc	66	66	0
0	1.00					
		Fill		0	0	0
0	1.00					

```
Input  File: ewkprj.inp
Output File: Magruder.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268MagruderXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = MagruderEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = MAGRUDER
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 210+00.00 R 1
 1    81    81         end sta = 212+00.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = MAGRUDER
COMPUTING EARTHWORKS FOR JOB = 268
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
210+50.00	EARTH					
	Common Exc	91.7	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	4.5	0	0	1.00	0
	TOPSOIL					

```
              Common Exc      11.3          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       3.3          0          0   1.00
                  Fill         0.0          0          0   1.00         0
               Mass ordinate for TOPSOIL = 0

  210+75.00 EARTH
              Common Exc      69.2         74         74   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         4.8          4          4   1.00        70
           TOPSOIL
              Common Exc       7.0          8          8   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       3.8          3          3   1.00
                  Fill         0.0          0          0   1.00        70
               Mass ordinate for TOPSOIL = 11

  210+90.00 EARTH
              Common Exc      61.6         36         36   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         5.2          3          3   1.00       103
           TOPSOIL
              Common Exc       6.5          4          4   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       4.0          2          2   1.00
                  Fill         0.0          0          0   1.00       103
               Mass ordinate for TOPSOIL = 17
↟                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.)
       --------------------------- ---------- ---------- ------
       EARTH
                         Common Exc        110        110   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill              7          7   1.00
       TOPSOIL
                         Common Exc         12         12   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          5          5   1.00
                           Fill              0          0   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 (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Factor
EARTH						
	Common Exc	110	110	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	7	7	0	0	1.00
TOPSOIL						
	Common Exc	12	12	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	5	5	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: Caroline.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268CarolineXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = CarolineEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = CAROLINE
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 215+00.00 R 1
 1    81    81         end sta = 216+75.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = CAROLINE
COMPUTING EARTHWORKS FOR JOB = 268
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
215+50.00	EARTH					
	Common Exc	157.6	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.8	0	0	1.00	0
	TOPSOIL					

	Common Exc	15.7	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.8	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
215+75.00	EARTH					
	Common Exc	114.6	126	126	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.5	1	1	1.00	125
	TOPSOIL					
	Common Exc	11.2	12	12	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.5	1	1	1.00	
	Fill	0.0	0	0	1.00	125
	Mass ordinate for TOPSOIL = 13					
216+00.00	EARTH					
	Common Exc	83.6	92	92	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.1	1	1	1.00	216
	TOPSOIL					
	Common Exc	9.1	9	9	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.1	1	1	1.00	
	Fill	0.0	0	0	1.00	216
	Mass ordinate for TOPSOIL = 23					
216+17.50	EARTH					
	Common Exc	74.6	51	51	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	1.9	1	1	1.00	266
	TOPSOIL					
	Common Exc	8.1	6	6	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	1.9	1	1	1.00	
	Fill	0.0	0	0	1.00	266
	Mass ordinate for TOPSOIL = 30					

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
EARTH			
Common Exc	269	269	1.00
Subgrade Exc	0	0	1.00
Subsoil Exc	0	0	1.00

	Fill	3	3	1.00
TOPSOIL				
	Common Exc	27	27	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	3	3	1.00
	Fill	0	0	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
EARTH					
Common Exc	269	269	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
TOPSOIL					
Common Exc	27	27	0	0	1.00
Subgrade Exc	0	0	0	0	1.00
Subsoil Exc	3	3	0	0	1.00
Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: RegencyLt.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268RegencyParkLeftXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = RegencyLtEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = REGENCY-PARKL
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 180+50.00 R 1
 1    81    81         end sta = 181+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = REGENCY-PARKL
COMPUTING EARTHWORKS FOR JOB = 268
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
180+50.00	EARTH					
	Common Exc	71.1	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	0.9	0	0	1.00	0
	TOPSOIL					

```
              Common Exc      10.3          0          0   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.9          0          0   1.00
                  Fill         0.0          0          0   1.00         0
               Mass ordinate for TOPSOIL = 0

  180+75.00 EARTH
              Common Exc      59.6         61         61   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.3          1          1   1.00        60
           TOPSOIL
              Common Exc       3.1          6          6   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.3          1          1   1.00
                  Fill         0.0          0          0   1.00        60
               Mass ordinate for TOPSOIL = 7

  181+00.00 EARTH
              Common Exc      53.0         52         52   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.0          0          0   1.00
                  Fill         0.7          0          0   1.00       112
           TOPSOIL
              Common Exc       2.7          3          3   1.00
            Subgrade Exc       0.0          0          0   1.00
             Subsoil Exc       0.7          0          0   1.00
                  Fill         0.0          0          0   1.00       112
               Mass ordinate for TOPSOIL = 10
↟                 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.)
       --------------------------- ---------- ---------- ------
       EARTH
                         Common Exc        113        113   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          0          0   1.00
                           Fill              1          1   1.00
       TOPSOIL
                         Common Exc          9          9   1.00
                       Subgrade Exc          0          0   1.00
                        Subsoil Exc          1          1   1.00
                           Fill              0          0   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 (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Volume (cu. yd.)	Factor
EARTH						
	Common Exc	113	113	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	1	1	0	0	1.00
TOPSOIL						
	Common Exc	9	9	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	1	1	0	0	1.00
	Fill	0	0	0	0	1.00

```
Input  File: ewkprj.inp
Output File: RegencyRt.log
 1     1     1
 1     2     2
 1     3     3 Earthwork
 1     4     4
 1     5     5 tolerance = 0.010000
 1     6     6
 1     7     7 vertical search distance = 500.000000
 1     8     8
 1     9     9 xs dgn = P:\2013 Projects\13-08-0201 - SR-268 Thompson
Lane\Transportation\RFSR268RegencyParkRightXS.dgn
 1    10    10
 1    11    11     Proposed Finish Grade
 1    12    12         soil type = EARTH
 1    13    13         roadway exc mult factor = 1.000000
 1    14    14         subsoil exc mult factor = 1.000000
 1    15    15         fill mult factor = 1.000000
 1    16    16             type = line, line_string
 1    17    17             lvname = DESIGN - TYPICAL - Finished Grade and Subgrade
 1    18    18             lc = 0
 1    19    19             wt = 4
 1    20    20             co = 1-2,6,8,11
 1    21    21
 1    22    22     Existing Ground Line
 1    23    23         soil type = EARTH
 1    24    24         roadway exc mult factor = 1.000000
 1    25    25         subsoil exc mult factor = 1.000000
 1    26    26         fill mult factor = 1.000000
 1    27    27             type = line, line_string
 1    28    28             lvname = SURVEY - GROUND - Top of Ground
 1    29    29             lc = 3,ByLevel
 1    30    30             wt = 2,ByLevel
 1    31    31             co = 0,ByLevel
 1    32    32
 1    33    33     Existing Unsuitable Material
 1    34    34         soil type = TOPSOIL
 1    35    35         roadway exc mult factor = 1.000000
 1    36    36         subsoil exc mult factor = 1.000000
 1    37    37         fill mult factor = 1.000000
 1    38    38             type = line, line_string
 1    39    39             lvname = SURVEY - GROUND - Bottom of Topsoil Layer
 1    40    40             lc = 2
 1    41    41             wt = 2
 1    42    42             co = 2
 1    43    43
 1    44    44     Excavation Limit
 1    45    45             type = line
 1    46    46             lvname = DESIGN - EARTHWORK - Excavation Limit Lines
 1    47    47             lc = 0
```

```
 1    48    48             wt = 0
 1    49    49             co = 0
 1    50    50
 1    51    51     Write Earthwork Shapes
 1    52    52         plot param
 1    53    53             lv = 347
 1    54    54             lvname = DESIGN - EARTHWORK - Shapes
 1    55    55             co = ByLevel
 1    56    56             wt = ByLevel
 1    57    57             lc = ByLevel
 1    58    58             Stratify Shape Color
 1    59    59
 1    60    60     End Area Decimal Places = 1
 1    61    61
 1    62    62     write column base ascii file = RegencyRtEarthwork.txt
 1    63    63
 1    64    64     column 1 formula = abs( ["EARTH", Common Exc, End Area] )
 1    65    65     column 1 number of decimal place = 0
 1    66    66     column 1 total length = 10
 1    67    67
 1    68    68     column 2 formula = abs( ["EARTH", Fill, End Area] )
 1    69    69     column 2 number of decimal place = 0
 1    70    70     column 2 total length = 10
 1    71    71
 1    72    72     column 3 formula = abs( ["TOPSOIL", Subsoil Exc, End Area] )
 1    73    73     column 3 number of decimal place = 0
 1    74    74     column 3 total length = 10
 1    75    75
 1    76    76
 1    77    77     Process Earthwork for Baseline = REGENCY-PARKR
 1    78    78         job number = 268
 1    79    79
 1    80    80         beg sta = 187+75.00 R 1
 1    81    81         end sta = 189+50.00 R 1
 0     0    82 END_OF_FILE
COMPUTING EARTHWORKS FOR BASELINE = REGENCY-PARKR
COMPUTING EARTHWORKS FOR JOB = 268
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
188+50.00	EARTH					
	Common Exc	74.2	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	3.1	0	0	1.00	0
	TOPSOIL					

	Common Exc	7.6	0	0	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	3.1	0	0	1.00	
	Fill	0.0	0	0	1.00	0
	Mass ordinate for TOPSOIL = 0					
188+75.00	EARTH					
	Common Exc	73.8	69	69	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	2.9	3	3	1.00	66
	TOPSOIL					
	Common Exc	7.9	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.9	3	3	1.00	
	Fill	0.0	0	0	1.00	66
	Mass ordinate for TOPSOIL = 10					
189+00.00	EARTH					
	Common Exc	73.7	68	68	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	3.2	3	3	1.00	131
	TOPSOIL					
	Common Exc	8.0	7	7	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	3.2	3	3	1.00	
	Fill	0.0	0	0	1.00	131
	Mass ordinate for TOPSOIL = 20					
189+25.00	EARTH					
	Common Exc	80.6	71	71	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	199
	TOPSOIL					
	Common Exc	12.6	10	10	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	2.7	3	3	1.00	
	Fill	0.0	0	0	1.00	199
	Mass ordinate for TOPSOIL = 33					
189+50.00	EARTH					
	Common Exc	143.4	104	104	1.00	
	Subgrade Exc	0.0	0	0	1.00	
	Subsoil Exc	0.0	0	0	1.00	
	Fill	11.5	7	7	1.00	296
	TOPSOIL					
	Common Exc	18.9	15	15	1.00	
	Subgrade Exc	0.0	0	0	1.00	

Subsoil Exc	7.7	5	5	1.00	
Fill	0.0	0	0	1.00	296

Mass ordinate for TOPSOIL = 53

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
EARTH				
	Common Exc	312	312	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	0	0	1.00
	Fill	16	16	1.00
TOPSOIL				
	Common Exc	39	39	1.00
	Subgrade Exc	0	0	1.00
	Subsoil Exc	14	14	1.00
	Fill	0	0	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
EARTH						
	Common Exc	312	312	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	0	0	0	0	1.00
	Fill	16	16	0	0	1.00
TOPSOIL						
	Common Exc	39	39	0	0	1.00
	Subgrade Exc	0	0	0	0	1.00
	Subsoil Exc	14	14	0	0	1.00
	Fill	0	0	0	0	1.00