17. Cross Section Reports

In this exercise we will take a look at cross section reports and actually run a seeding quantity report from our cross section graphics.

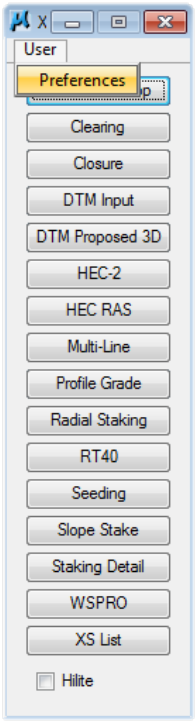
1) Open the Microstation file

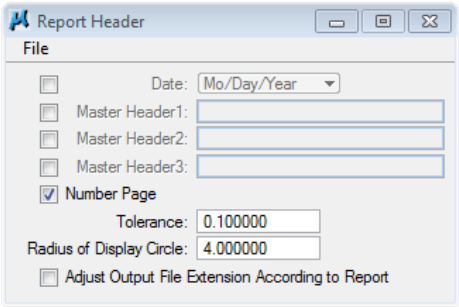
C:\Projects\Roane\SR95PoplarCr\ROSR95MainlineXSections.dgn

Access Project Manager.

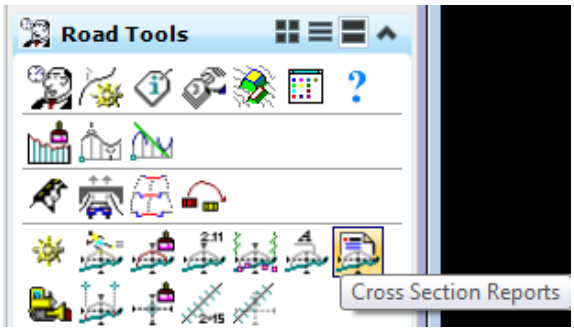
2) Select Reports and XS Quantities.

From the XS Reports dialog, select the User → Preferences option.

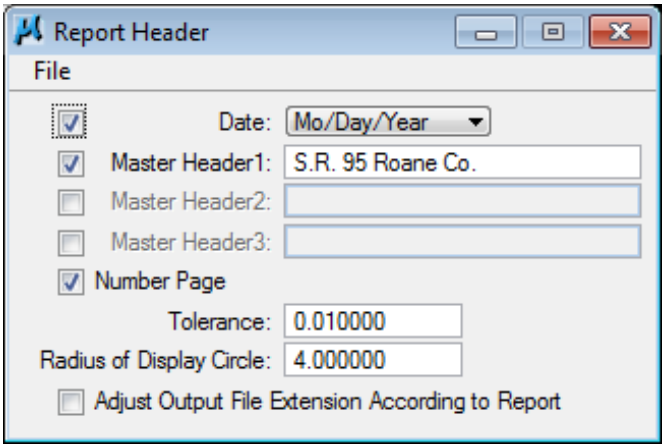




NOTE:
XS Reports can also be accessed from the MicroStation menu bar drop down location Applications → GEOPAK → Road → Cross Sections → Reports or from the cross section task group under Road Tools.



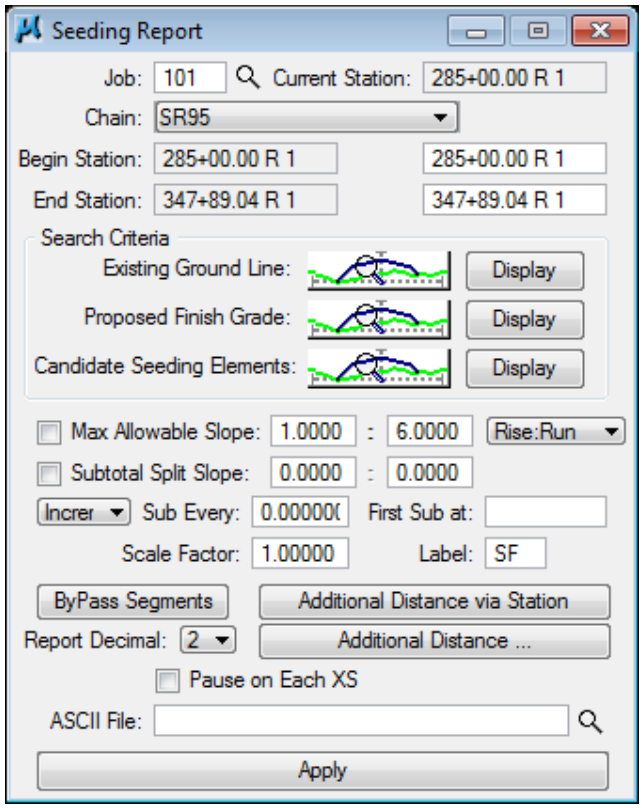
3) In the Report Header dialog turn on the Date, click on the first Header option and enter S.R. 95 Roane Co. Set the tolerance to 0.01.



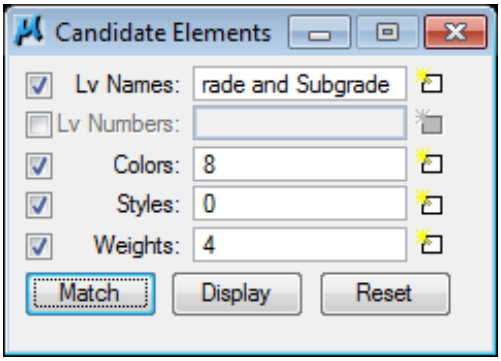
Close the dialog when complete.

4) From the XS Reports dialog, select the Seeding report

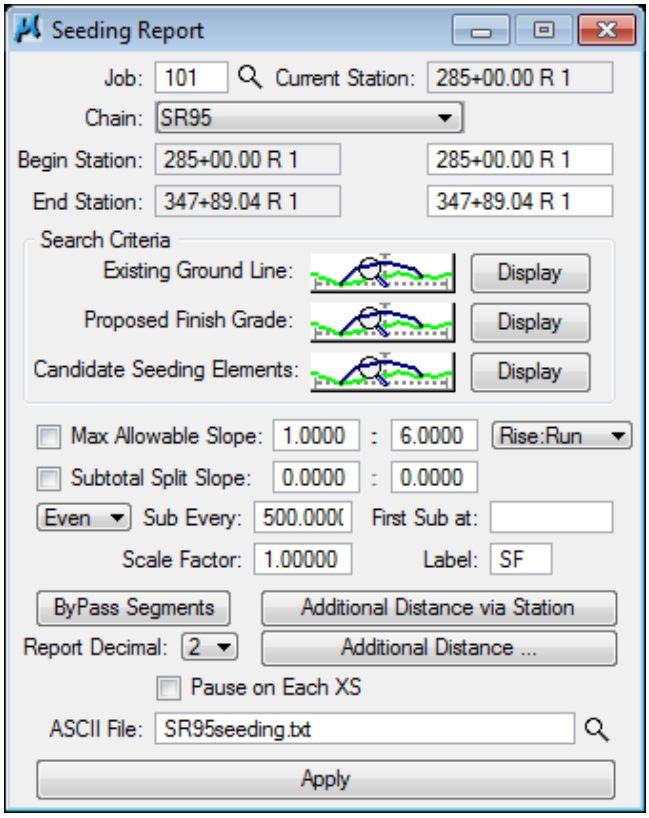
5) In the Seeding dialog, set the Chain to SR95. The station fields are filled in when the chain is selected.



Click on the Candidate Seeding Elements button and fill in as shown. Use the Match button and data point on a side slope element in your proposed cross sections. The level name is DESIGN - TYPICAL - Finished Grade and Subgrade.



Additional control settings are available at the bottom of the dialog. Change the subtotal option to Even at 500 and keyin the report name SR95seeding.txt at the bottom.

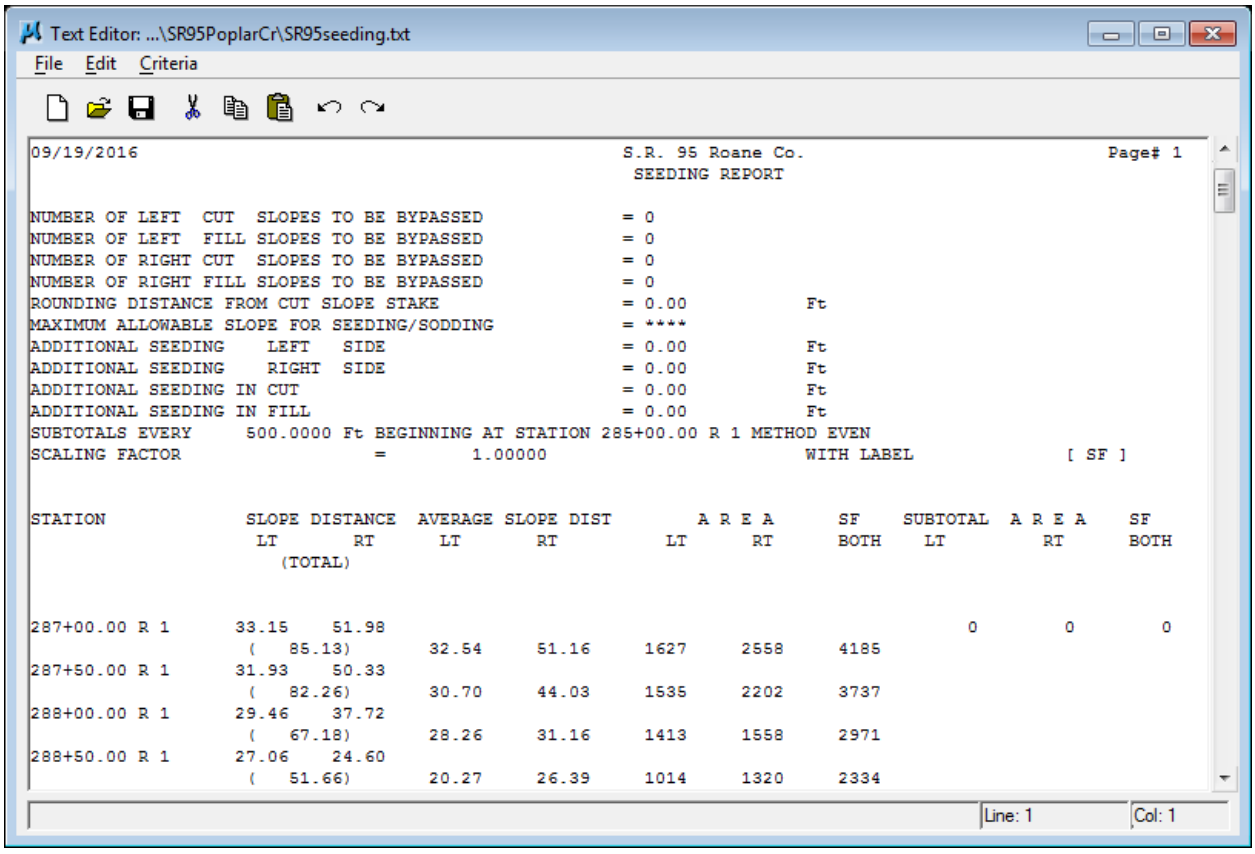


Click on the Apply button when complete.

6) After processing is complete, dismiss the dialog.

7) Using the GEOPAK Text Editor, review the report SR95seeding.txt.

This report yields the square foot area of all grass slopes which can be used in calculation of any quantities related to slopes including seeding, sod, water, etc.




```
09/19/2016                                          S.R. 95 Roane Co.                          Page# 1
                                                     SEEDING REPORT

NUMBER OF LEFT  CUT  SLOPES TO BE BYPASSED            = 0
NUMBER OF LEFT  FILL SLOPES TO BE BYPASSED            = 0
NUMBER OF RIGHT CUT  SLOPES TO BE BYPASSED            = 0
NUMBER OF RIGHT FILL SLOPES TO BE BYPASSED            = 0
ROUNDING DISTANCE FROM CUT SLOPE STAKE                = 0.00          Ft
MAXIMUM ALLOWABLE SLOPE FOR SEEDING/SODDING           = ****
ADDITIONAL SEEDING    LEFT   SIDE                     = 0.00          Ft
ADDITIONAL SEEDING    RIGHT  SIDE                     = 0.00          Ft
ADDITIONAL SEEDING IN CUT                             = 0.00          Ft
ADDITIONAL SEEDING IN FILL                            = 0.00          Ft
SUBTOTALS EVERY     500.0000 Ft BEGINNING AT STATION 285+00.00 R 1 METHOD EVEN
SCALING FACTOR                  =       1.00000                     WITH LABEL             [ SF ]


STATION             SLOPE DISTANCE  AVERAGE SLOPE DIST       A R E A      SF    SUBTOTAL  A R E A    SF
                     LT       RT      LT       RT          LT      RT      BOTH    LT         RT      BOTH
                        (TOTAL)


287+00.00 R 1      33.15    51.98                                                    0        0        0
                    (   85.13)       32.54     51.16     1627     2558     4185
287+50.00 R 1      31.93    50.33
                    (   82.26)       30.70     44.03     1535     2202     3737
288+00.00 R 1      29.46    37.72
                    (   67.18)       28.26     31.16     1413     1558     2971
288+50.00 R 1      27.06    24.60
                    (   51.66)       20.27     26.39     1014     1320     2334
```


8) Exit the XS Reports dialog.