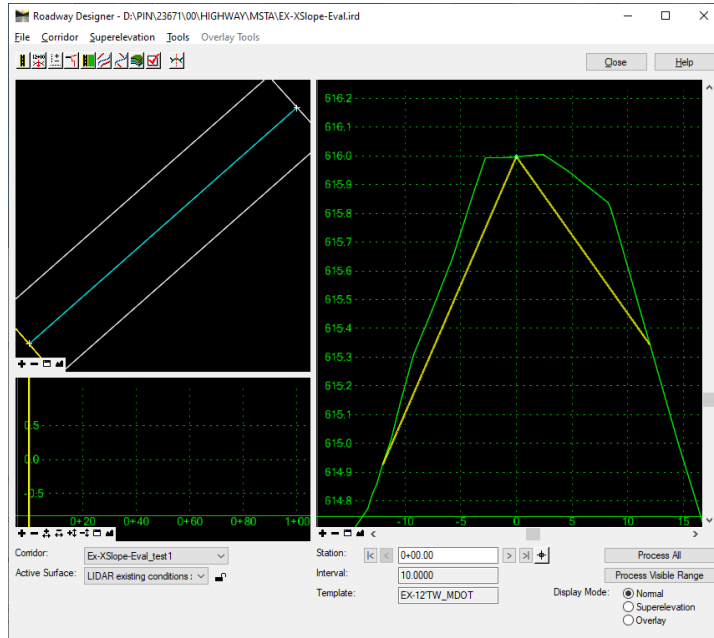


From: [Robison, William T](#)
To: [Hedstrom, Chris L](#); [Wardwell, David](#)
Subject: OOG Slope Evaluation work
Date: Friday, August 20, 2021 10:33:00 AM
Attachments: [image001.png](#)
[MDOT_CrossSectionPoints_WTR_working.xls](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)

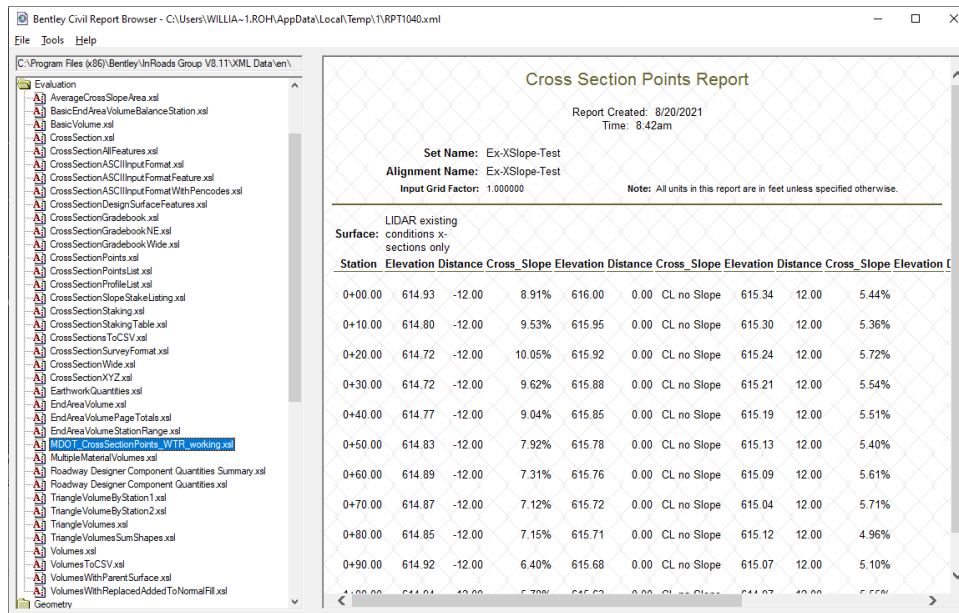
Good Morning,

I have with help, been able to create a simple template for a road with opposing 12' travelways which creates cross-section from which the existing slope of each travelway can be evaluated.



The template is attached and named "EX-12'TW_MDOT".

Once the template has been used to create a corridor and a surface and cross sections have been created. You can generate a report that provides the cross slope at corresponding cross sections.



The original report "CrossSectionPoints.xls" has been modified to do this. The modified stylesheet file is attached and named "MDOT_CrossSectionPoints_WTR_working.xls".

Basic outline of the process to get to the report:

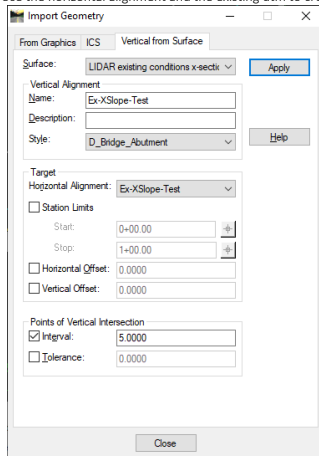
Perquisites:

- Existing Ground dtm
- Existing road centerline horizontal alignment
- Template "EX-12'TW_MDOT"
- Cross Section Report "MDOT_CrossSectionPoints_WTR_working.xls"

*save the attached report "MDOT_CrossSectionPoints_WTR_working.xls" here: C:\Program Files (x86)\Bentley\InRoads Group V8.11\XML Data\en\Evaluation

Outline of Procedure:

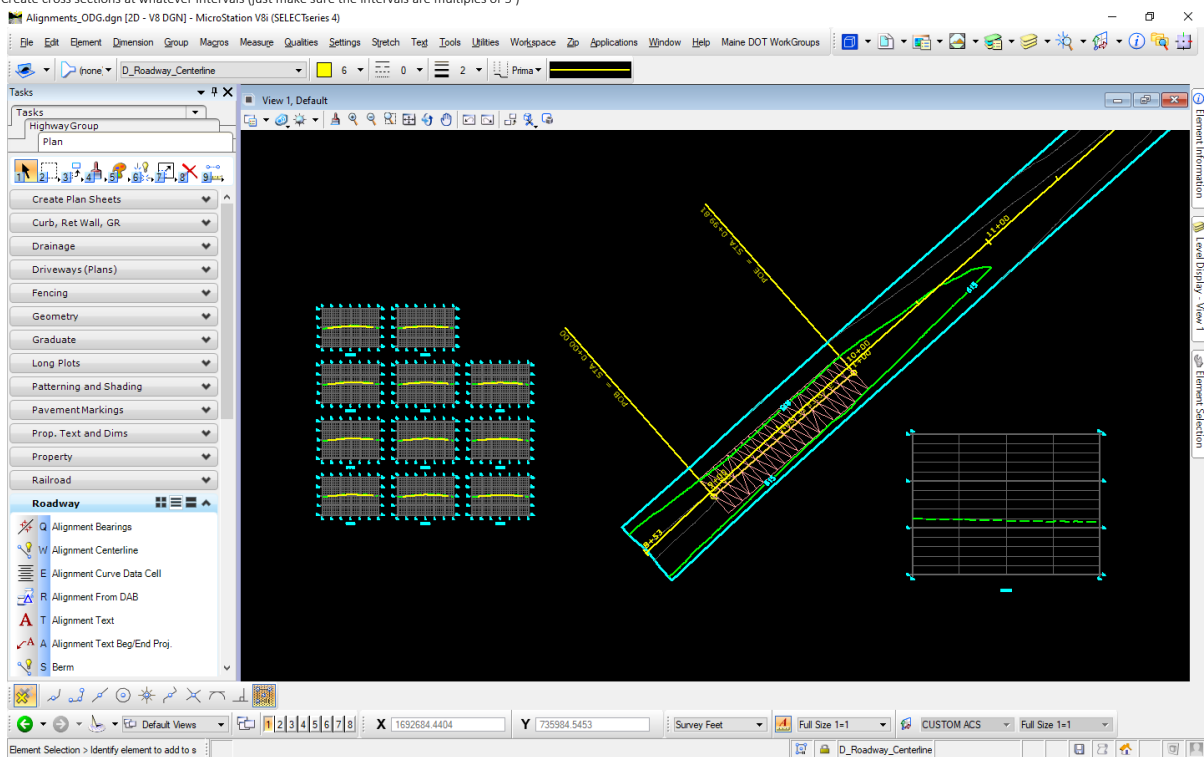
1. The existing ground and existing road centerline alignment need to be created
2. Use the horizontal alignment and the existing dtm to create the existing vertical alignment of the road by Importing Geometry > Vertical from Surface:



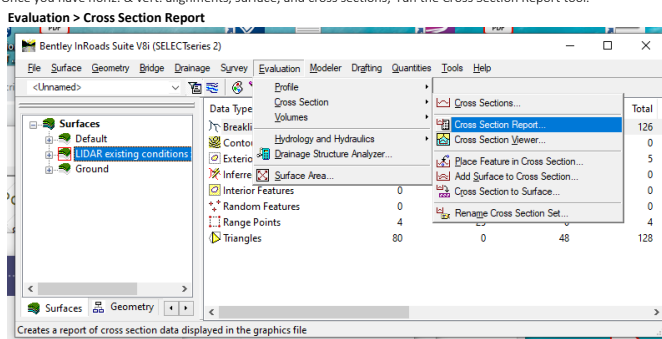
(Make sure the "Points of Vertical Intersection" is of a smaller denominator distance than the eventual cross sections.)

Now the existing road has both a horiz. and vert. alignment.

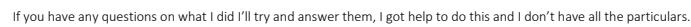
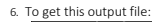
3. Go through the steps of creating a corridor, template drops (while using the template provided), and create a surface.
4. Create cross sections at whatever intervals (just make sure the intervals are multiples of 5')



5. Once you have horiz. & vert. alignments, surface, and cross sections, run the Cross Section Report tool.



Select the surface you created, Click apply and choose the MDOT_CrossSectionPoints_WTR_working.xsl" report



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