



# FDOT 2004 Cross Sections

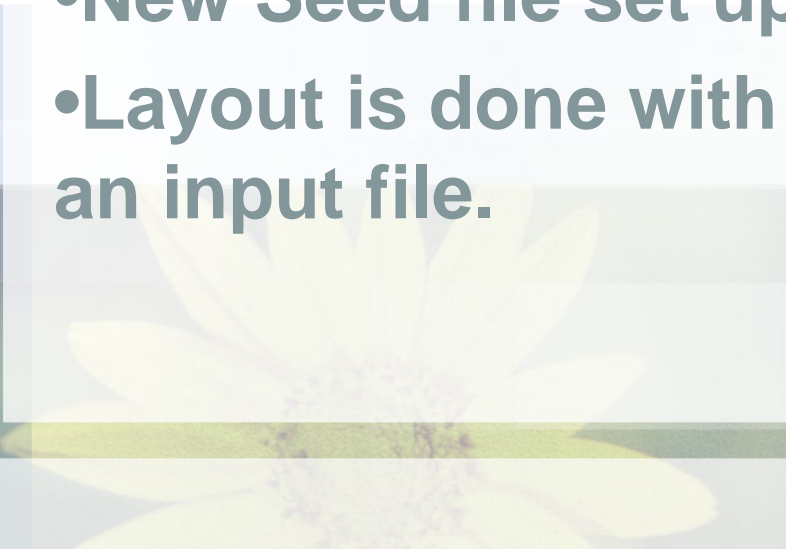
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850.245.1600

# What's New

- New criteria delivered for Typical Section Generator and Drainage for MS V8.
- Limited files are being delivered.
- You can still use input files. However you will be responsible for updating to FDOT 2004 standards.
- All plotting variables are found in one file (variables.x).
- Editable Re-definable Variables (ERV's)
- Criteria uses DDB features. Therefore.....
- Very important!!!! Use the D&C. New criteria looks for attribute tags and adhoc on the elements.

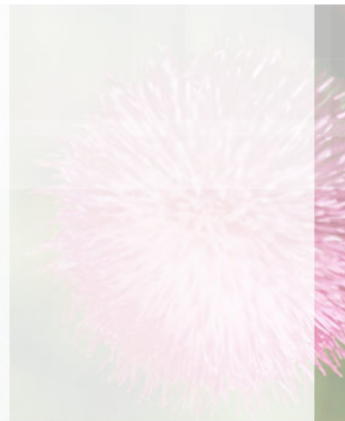
# What's New

- **Read the help documentation provided with the Typical Sections.**
- **Criteria will flag cross sections with warnings. Not enough existing ground, slope problems etc.**
- **New Seed file set up with models.**
- **Layout is done with a dialog instead of an input file.**



# New Concepts

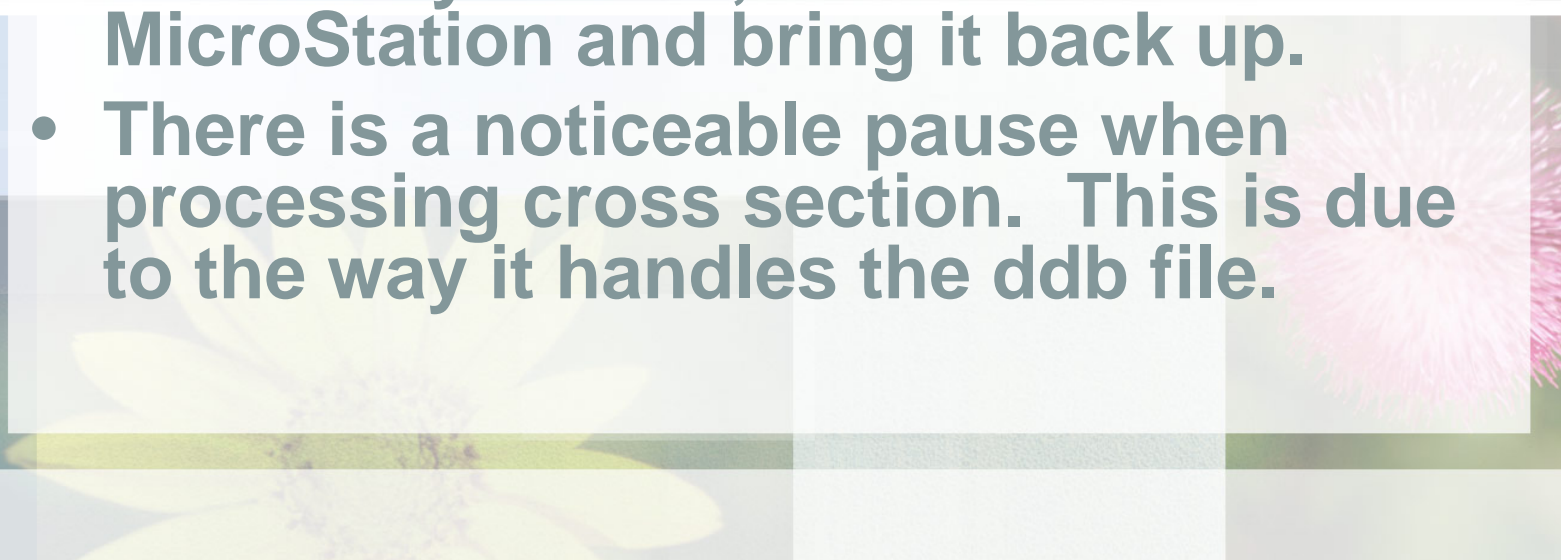
- **Median Lines**
- **Ditch Profile Lines**
- **Match Lines/Milling Limits**
- **Profile Overlay**
- **Adhocs for Criteria**
- **New Construction and Resurfacing supported in the same run**
- **Shapes**



# Warnings/Helpful Hints

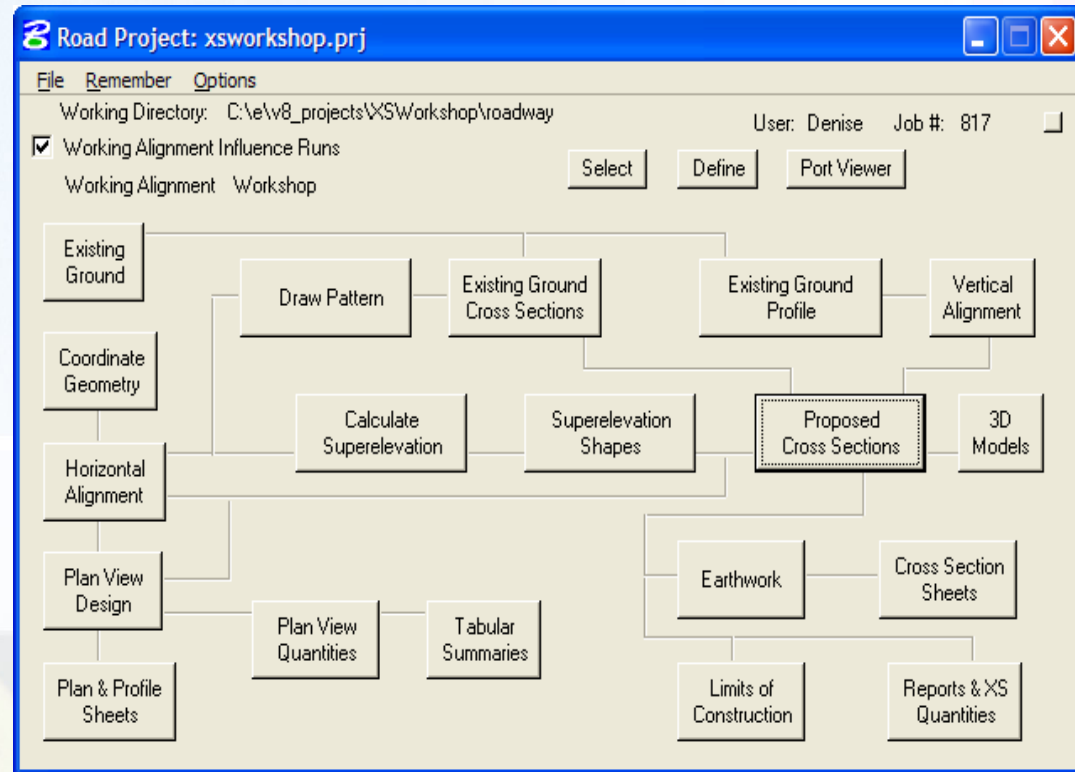


- **GEOPAK does not recognize models when searching DGN files.**
- **The first DGN file of the dgn variables specified must exist.**
- **There must always be an even number of edges of pavement.**
- **When re-running cross sections and the drawing of the sections gets noticeably slower, minimize MicroStation and bring it back up.**
- **There is a noticeable pause when processing cross section. This is due to the way it handles the ddb file.**



# Getting Started

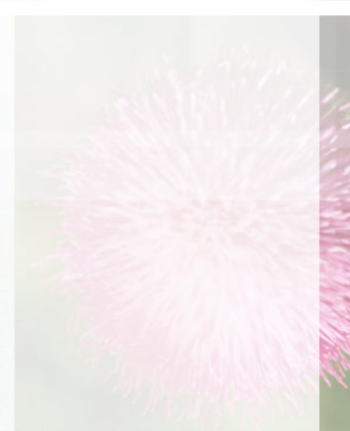
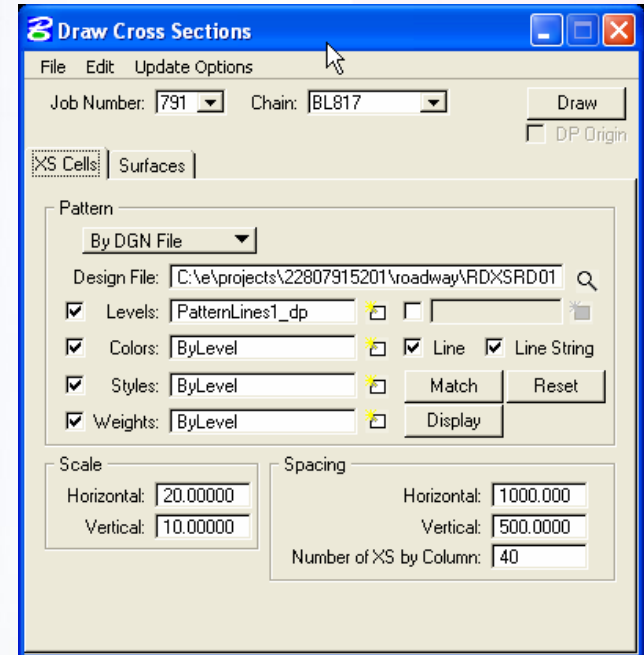
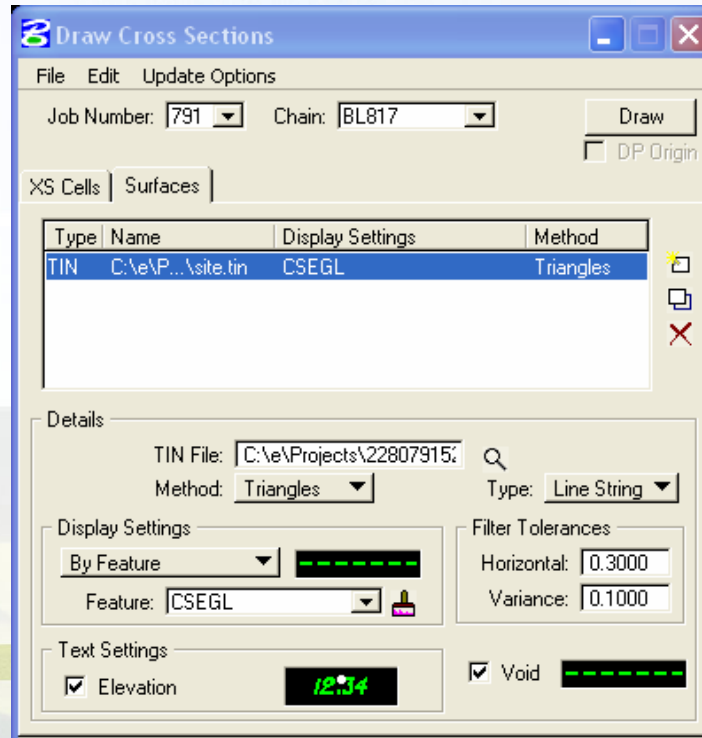
- New criteria is only available through the Project Manager.



# Existing Ground



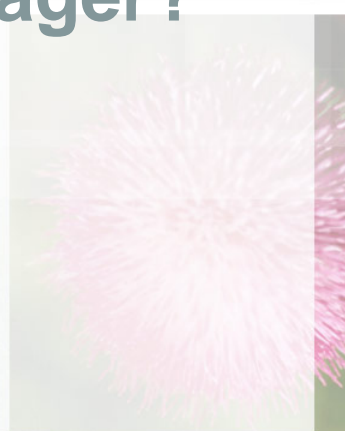
- Use the By Feature Display Setting Option
- Use Line String Option



# Proposed Cross Sections



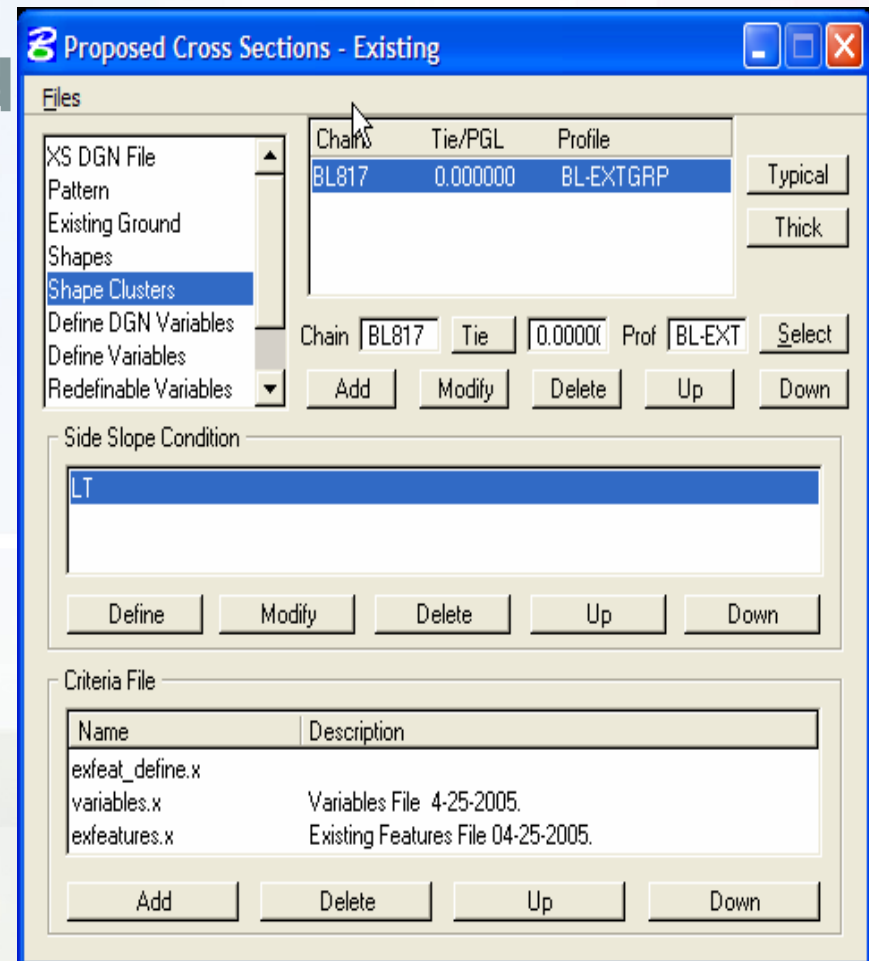
- **Additional Ground Work**
  - Check edges of pavement
  - Median Lines?
  - Special Ditch Lines?
  - Check for Attribute Tags and Adhoc Attributes
  - Elements found by D&C Manager?



# Proposed Cross Sections



- Proposed Cross Section Dialog
- Must be accessed through Project Manager



# Typical Section Generator



**Typical Sections**

*Existing Features*  
*Multiple Instances Allowed*

The diagram shows a horizontal cross-section of a road. A dashed red line represents the 'Existing Roadway'. Below it, a solid green line represents the 'Natural Ground'. The road is divided into four numbered sections: 1. Existing Sidewalk, 2. Existing Curb, 3. Existing Pavement, and 4. Existing Shoulders. Two vertical purple lines with arrows point from the labels 'Existing Roadway' and 'Natural Ground' to their respective lines in the diagram.

*Existing Roadway*      *Natural Ground*

1. *Existing Sidewalk*      3. *Existing Pavement*

2. *Existing Curb*      4. *Existing Shoulders*

Cell	Description
Dvd_Rehab_CC	Divided Rec...
ExFeat	Existing Feat...
Multi_Rehab_CC	Divided Rec...
MULTI_REHAB_ME	Divided Rec...
NLRt_CC	New Const. ...
NRtRLt_CC	New Const. ...
NRtRLt_ME	New Const. ...
RRtNlt_ME	New Const. ...
UnPavt	Undivided N...

Job Number: 817

Template  
Template Designed to Work with: 1 Shape Cluster

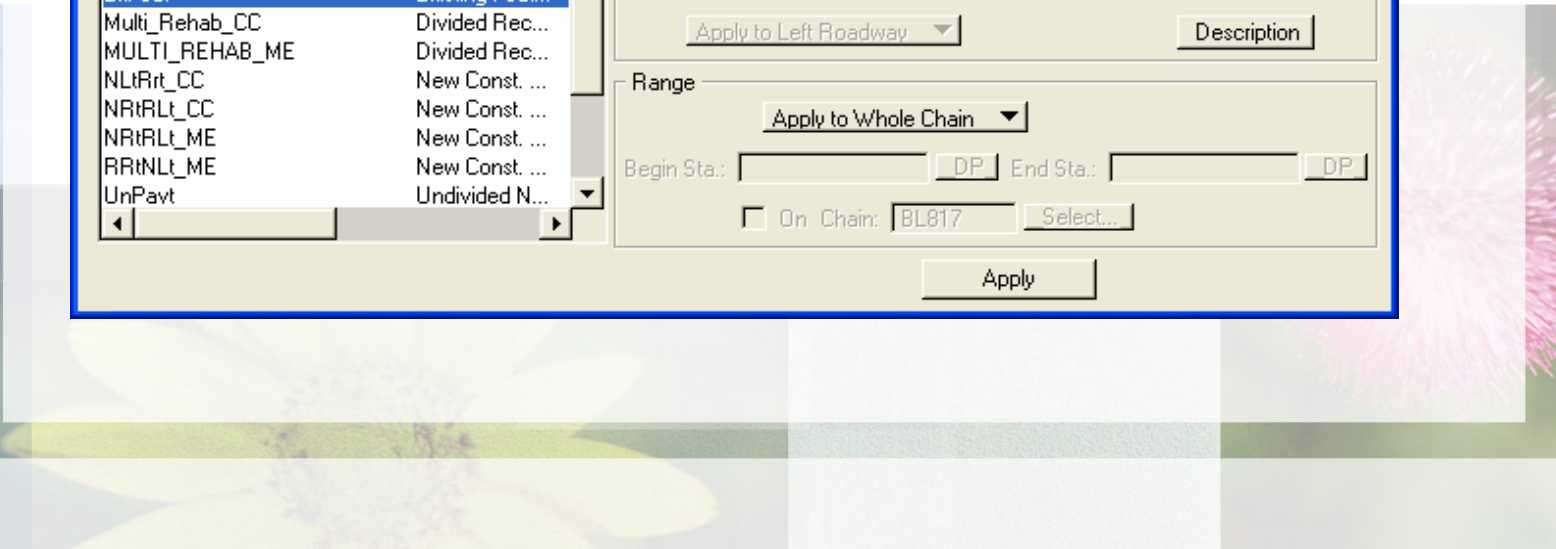
Apply to Left Roadway      Description

Range  
Apply to Whole Chain

Begin Sta.:      DP      End Sta.:      DP

On Chain: BL817      Select...

Apply



# Criteria Choices

**Answer a few questions.....**

**Existing Features**

**Divided vs. Undivided**

**New Construction vs.  
Reconstruction**

**Crown Correction vs. Match**

**Existing**

**Widening Only**

**Miscellaneous (Draw R/W,  
Reports)**

# Proposed Sections



Common questions and Errors

What if the sections won't run?

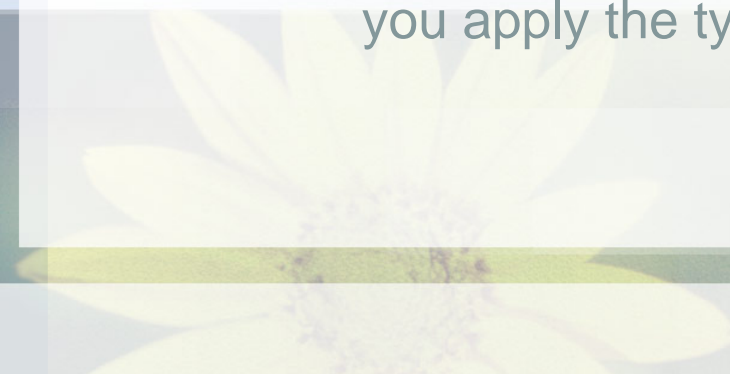
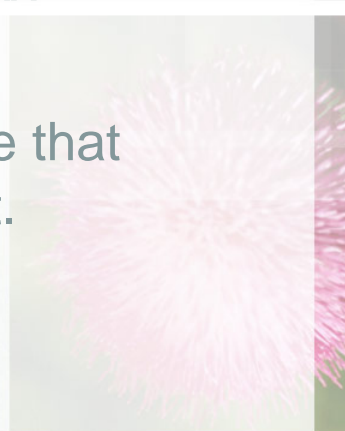
check shapes, edges of pavement #'s

It's not drawing what it's supposed to.

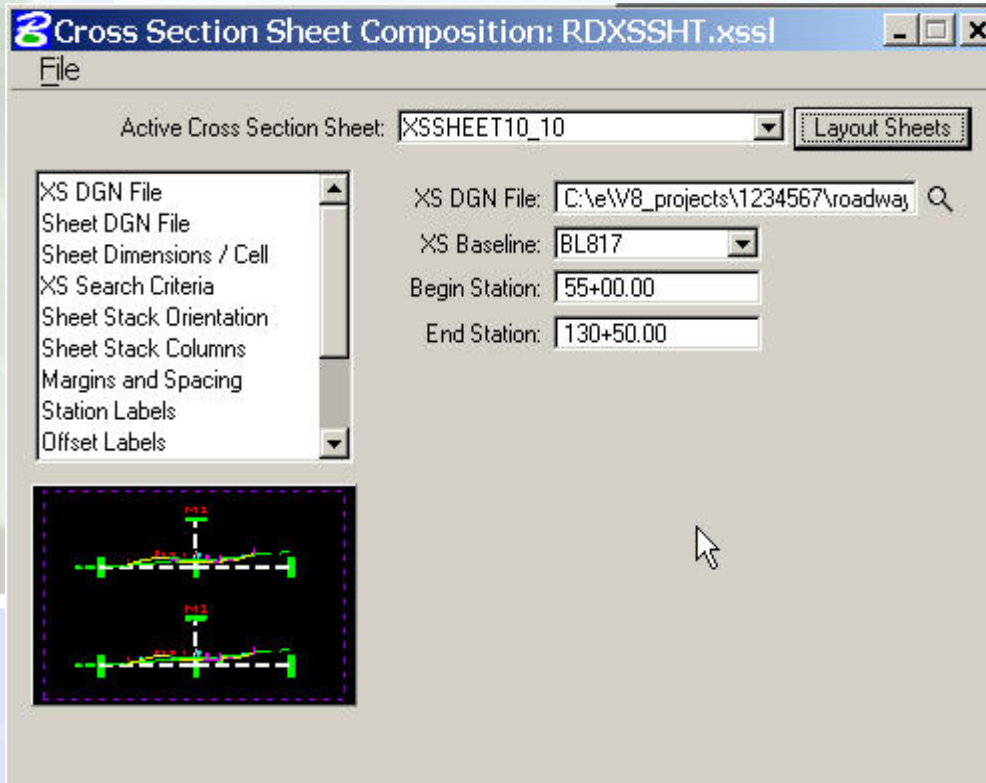
Check design elements

I'm getting an error message that the “\_s\_xxxx” variable is not defined.

Reapply typical. If divided make sure that you apply the typical from left to right.



# Cross Section Sheets

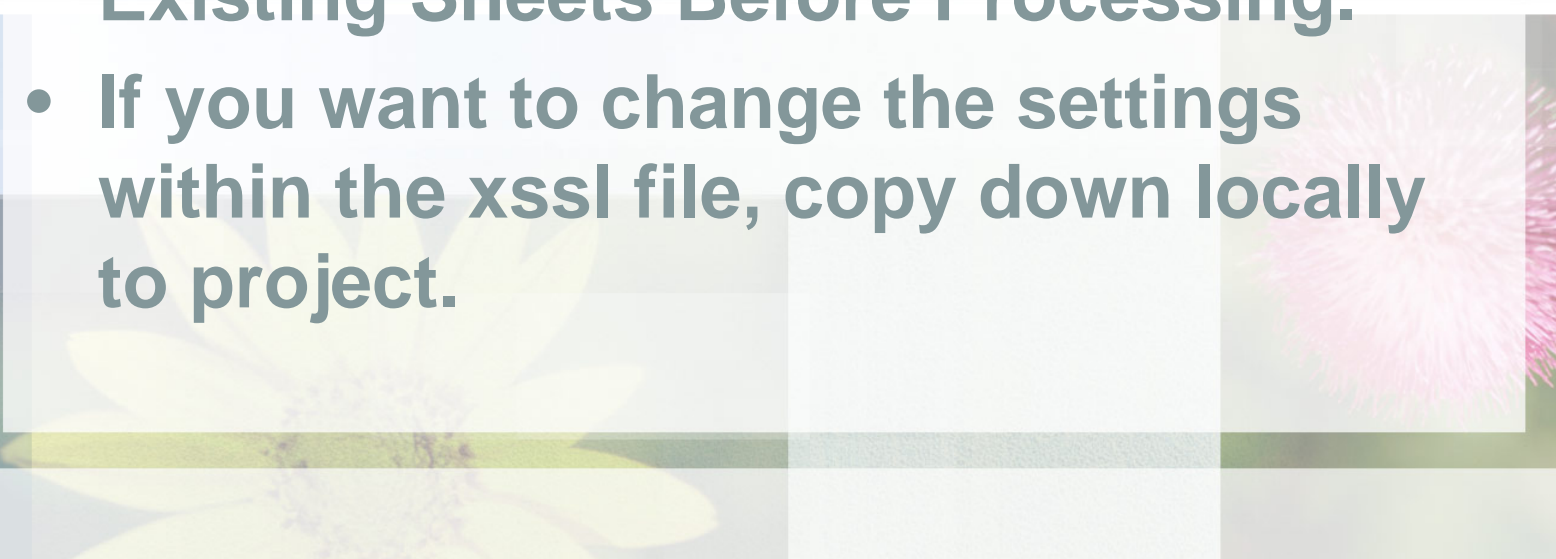


- No longer use layout input files to create sheets.
- Cross Sections are now referenced to the sheets.
- Important – The scale of the sheet needs to be the scale used to cut the existing ground.
- Multiple sheet scales have been delivered in the rdxssht.xssl library.

# Cross Section Sheet Composition Tool

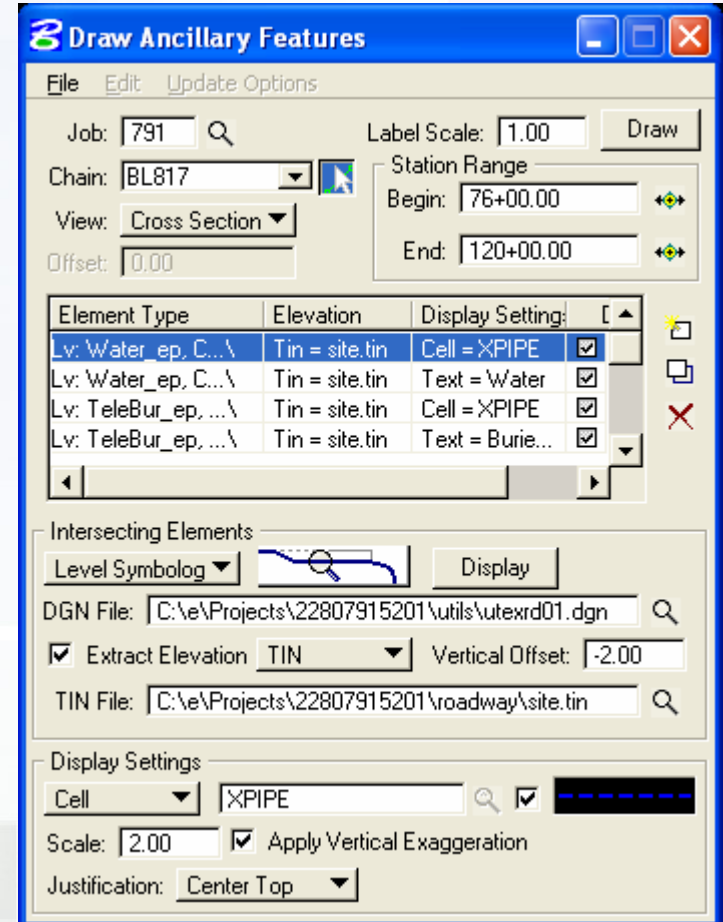


- **Caution: Project Manager does not save the changes made to the settings set up in the xssl file. It will save the xs dgn file, sheet dgn file, earthwork quantity file and the toggle to Detach Existing Sheets Before Processing.**
- **If you want to change the settings within the xssl file, copy down locally to project.**



# Ancillary Features

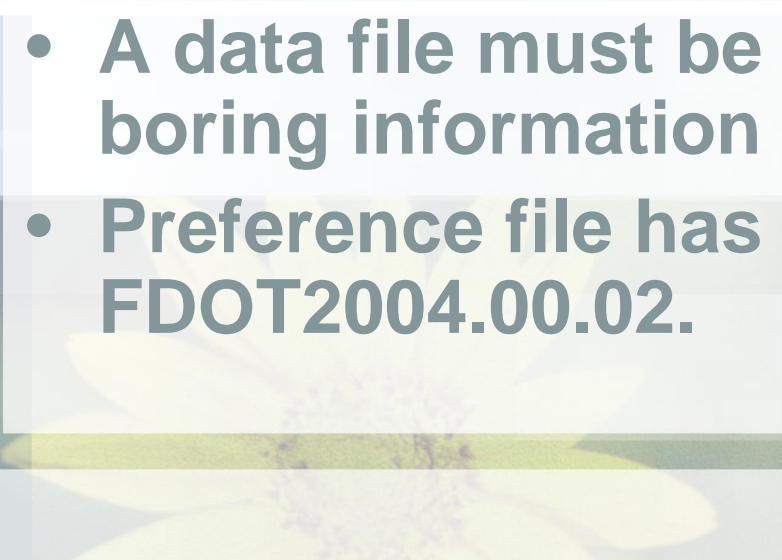
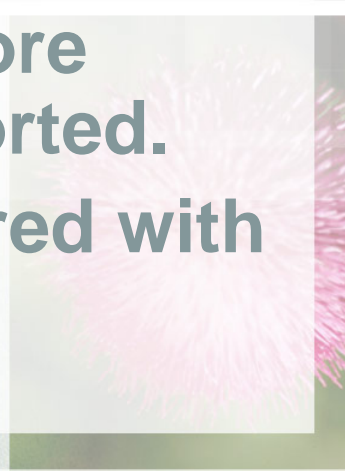
- Used in place of the old ancillary input files.
- There are 2 templates provided with MR2 for utilities.
  - Fdot2004\_e.afd (existing utilities)
  - Fdot2004\_p.afd (proposed utilities)



# GeoTechnical



- **Must use GeoTechnical tools for soil borings (Borehole Navigator)**
- **Uses csv files to import soil boring information into the program.**
- **It can also import from old input files. (Tip... If station offset info comes in but not the material info, check the input file and make sure it reads soils type.)**
- **A data file must be created before boring information can be imported.**
- **Preference file has been delivered with FDOT2004.00.02.**





Questions????

