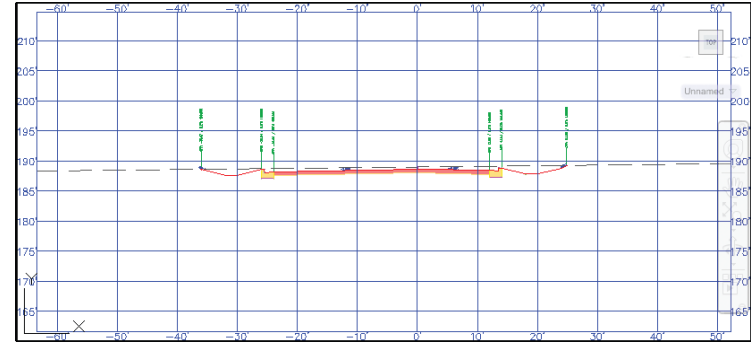


Chapter 10

- Creating Cross Sections of the Design
 - Topics
 - Using the Section Editor
 - Creating Sample Lines
 - Creating Section Views
 - Sampling More Sources

Using the Section Editor

- The Section Editor gives you a “live” slice of the corridor at any given location.
- It has its own ribbon tab to serve up its many functions.

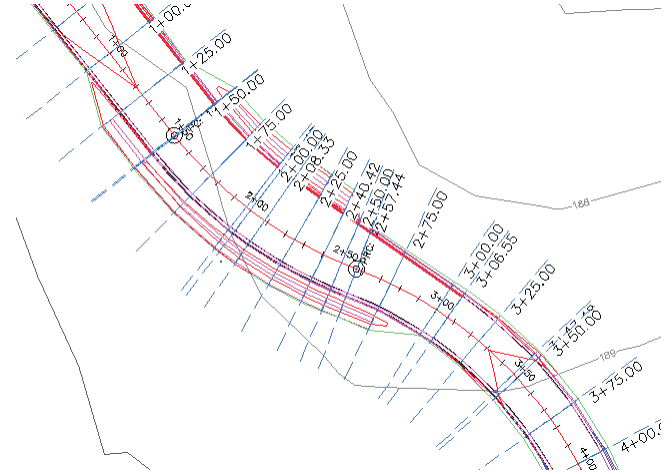


- It is for viewing and *editing* your corridor.
- Edits made with the Section Editor are considered *overrides*.

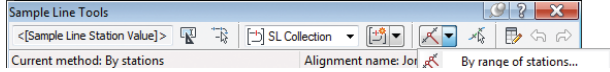


Understanding Sample Lines

- A sample line is the path along which a section is “cut.”
- There are usually many of them.
- They are typically drawn perpendicular to the alignment.
- They are associated to the alignment.
- They are placed within *sample line groups*.
- Sample line groups are placed beneath alignments in the object hierarchy.



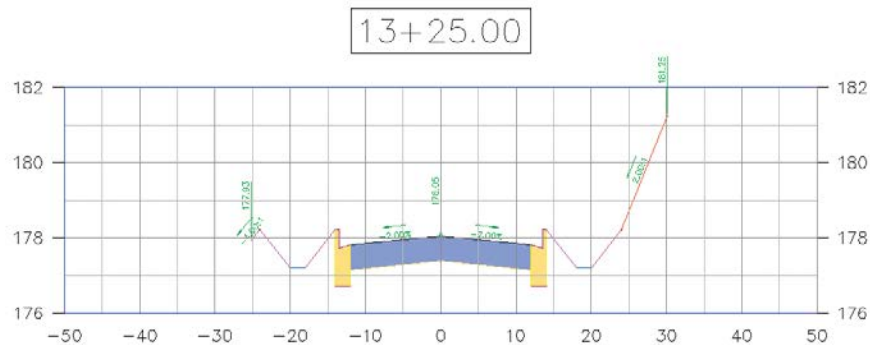
Creating Sample Lines

- After launching the Sample Lines command, you are prompted to select an alignment.
- You can sample surfaces, corridors, corridor surfaces, and pipe networks.
- Sample line creation tools are provided in a toolbar.
- There are multiple ways to place sample lines:
 - By Range of Stations
 - At a Station
 - From Corridor Stations
 - Pick Points On Screen
 - Select Existing Polylines



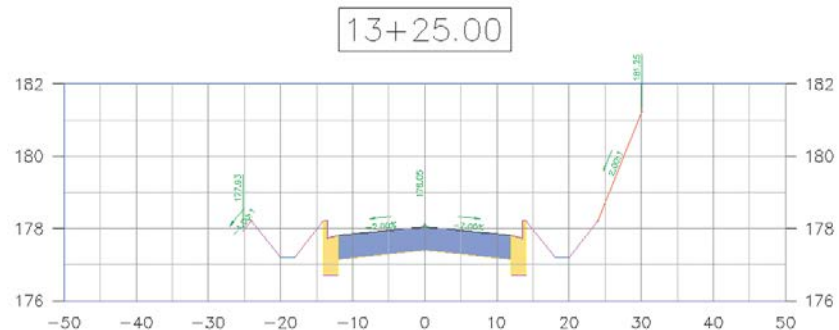
Understanding Section Views

- Section views are just like profile views but for sections.
- They have grid lines, annotation, and bands.
- They can be created individually or many at once.
- They are placed within section view groups.



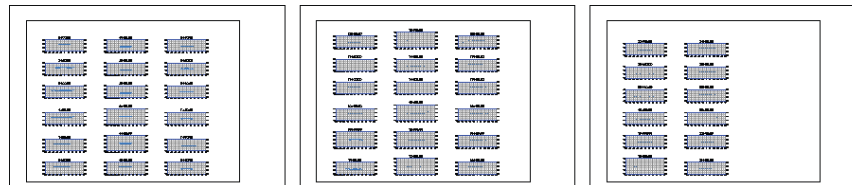
Individual Section Views

- At times, especially when designing, you will want to create individual section views at specific locations.
- Civil 3D provides a command for this purpose.
- When creating individual section views, you do not need to address the arrangement of the views.



Multiple Section Views

- Road design projects often require section sheets.
- Section sheets are a common/traditional method for constructing roads.
- Section views are typically provided at even intervals and at key locations.
- When creating multiple section views, you must address the arrangement within sheets.



Sampling More Sources

- So far you've only seen a sample line slice through a corridor.
- Surfaces, corridor surfaces, and pipe networks can also be sampled.
- In fact, more sources can be added after the sample lines are created.
- Civil 3D has tools to make it easy to add more sources and update all the section views.

