

# GEOPAK Ancillary Features



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## WELCOME

- Please turn off/silence your cell phones.
- Questions???
- ✓ Please feel free to ask questions as we go...



## Objectives

To learn how to use GEOPAK's Draw Ancillary Features tool to get utilities and other features into the cross sections (or profile) from 2D and/or 3D elements.



## Introduction

- Draw Ancillary Features is the GEOPAK tool used to draw cells, symbols, and/or text onto cross section or profile cells using MicroStation elements as the horizontal control and a variety of sources for the vertical.
- Vertical sources include tin files or existing ground lines with a depth of cover or stored profiles.



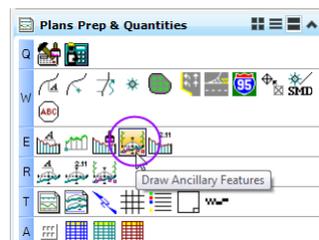
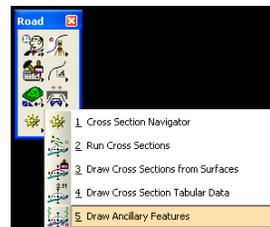
## Introduction

- Draw Ancillary Features can mark and label any design feature using level symbology to identify the feature in a MicroStation design file.
- Examples include:
  - Utilities
  - R/W
  - Baselines
  - Wetland Limits
  - Fence



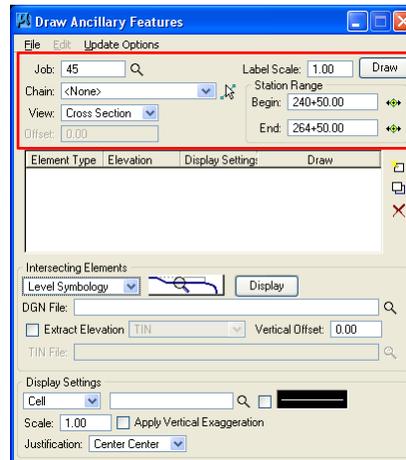
## Accessing Draw Ancillary Features

- Applications > GEOPAK > ROAD > Cross Sections > Draw Ancillary Features  
--or--
- Road  
Toolbox  
--or--
- Plans Prep & Quantities Task  
Menu under the Civil Work  
flows Task Menus



## Workflow

- Define the Project information
- The Chain can only be defined when the View is set to Cross Section.



## Workflow

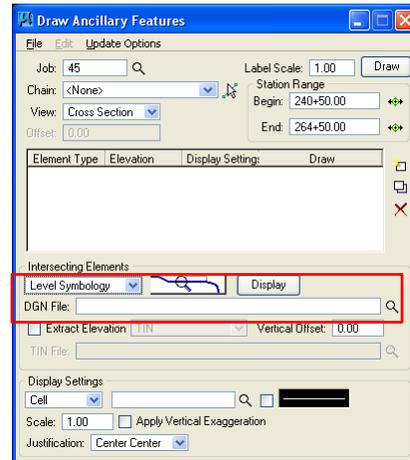
- Define the Intersecting Elements (Where does it need to draw?)
  - ✓ Horizontal
    - Chain
    - Survey Chain
    - Level Symbology
    - By Feature

Note: The options will change depending on the type chosen.



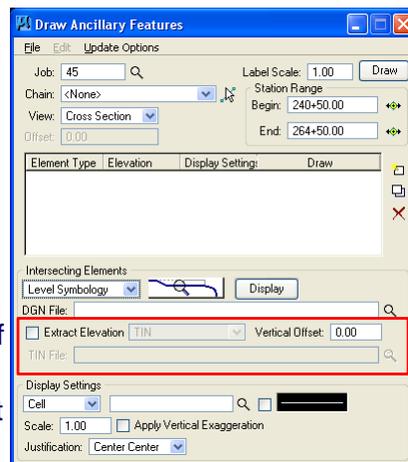
## Workflow

- When using Level Symbology, open the file to match the symbology. Do NOT use the reference file.



## Workflow

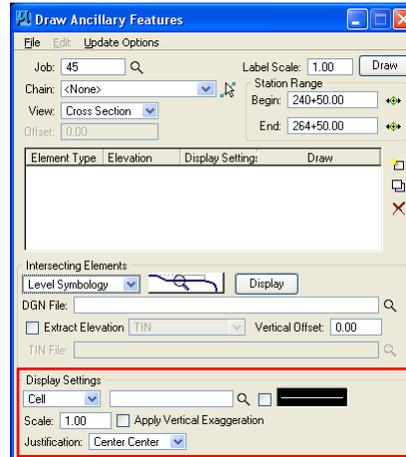
- Define the Intersecting Elements
  - ✓ Vertical
    - Profile
    - Extract Elevation
      - TIN
      - Level Symbology
      - Feature
    - Vertical Offset (Depth of Cover)
    - Does not need to be set when using Survey Chains or 3D elements.



## Workflow

- Define the Display Settings (What does it need to draw?)

- Cell
- Symbol
- Text



## Workflow

- Add the information to the List Box

- Add
- Modify
- Delete

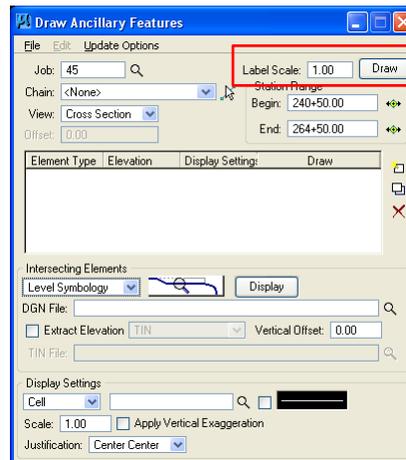
- 2 lines will be needed per Utility

1. Cell or Symbol
2. Text Label



## Workflow

- Set the Label Scale
- Click Draw
  - Make sure that the correct file and model is open. **GEOPAK does not recognize models.**



## Live Demonstration

1. Level Symbology – Depth of Cover (tin)
2. Survey
3. 3D elements
4. Level Symbology – Cross Section element
5. Intrinsic Text Options



Questions???



Thank-you for joining today's session.

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