

Walk-in Slide: AU 2014 Social Media Feed

1. Click on the link below, this will open your web browser

<http://aucache.autodesk.com/social/visualization.html>

2. Use “Extended Display” to project the website on screen if you plan to work on your computer. Use “Duplicate” to display same image on screen and computer.

Take the Tedium out of Your Corridors: "Auxiliary" Corridors for More Dynamic Models

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Class summary

Create background Corridors that dynamically link Baseline Profiles to primary Baselines.

Address the issue of having to create detailed Profile Targets for complex Corridors in non-typical areas.

Key learning objectives

At the end of this class, you will be able to:

- Utilize advanced Targeting to link Corridor Baselines
- Quickly incorporate design changes with “Auxiliary” Corridors
- Build detailed Corridor models without tedious Target Profile creation

Challenges with Complex Corridors

- Manual creation of Secondary Profiles with complex geometry

(Baselines or Targets)

- Multiple Corridors and Surfaces, and tying them together
- Creating dynamic Corridors that efficiently respond to design changes

Class Outline

1. Explain “Auxiliary Corridors”, and why to use them
2. Example 1: Asymmetrical Cul-de-sac
3. Example 2: Superelevated WISDOT Intersection
4. Conclusions and Questions

Auxiliary Corridors

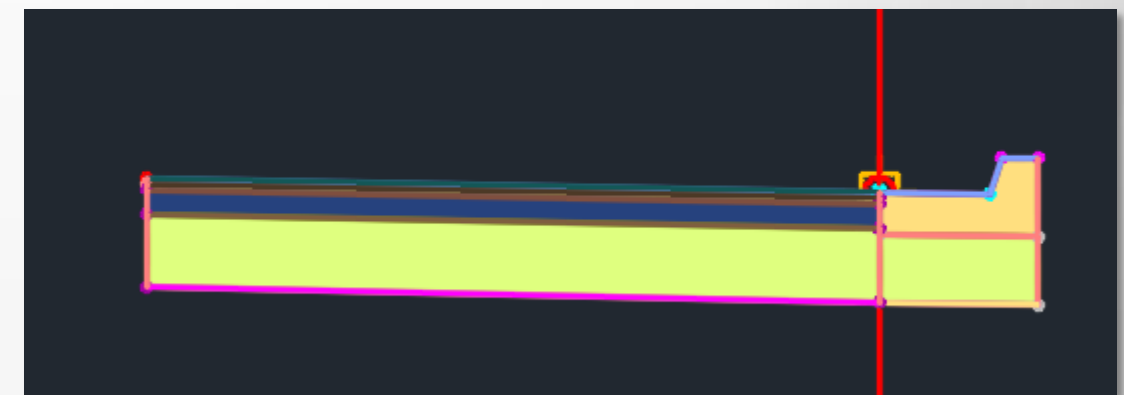
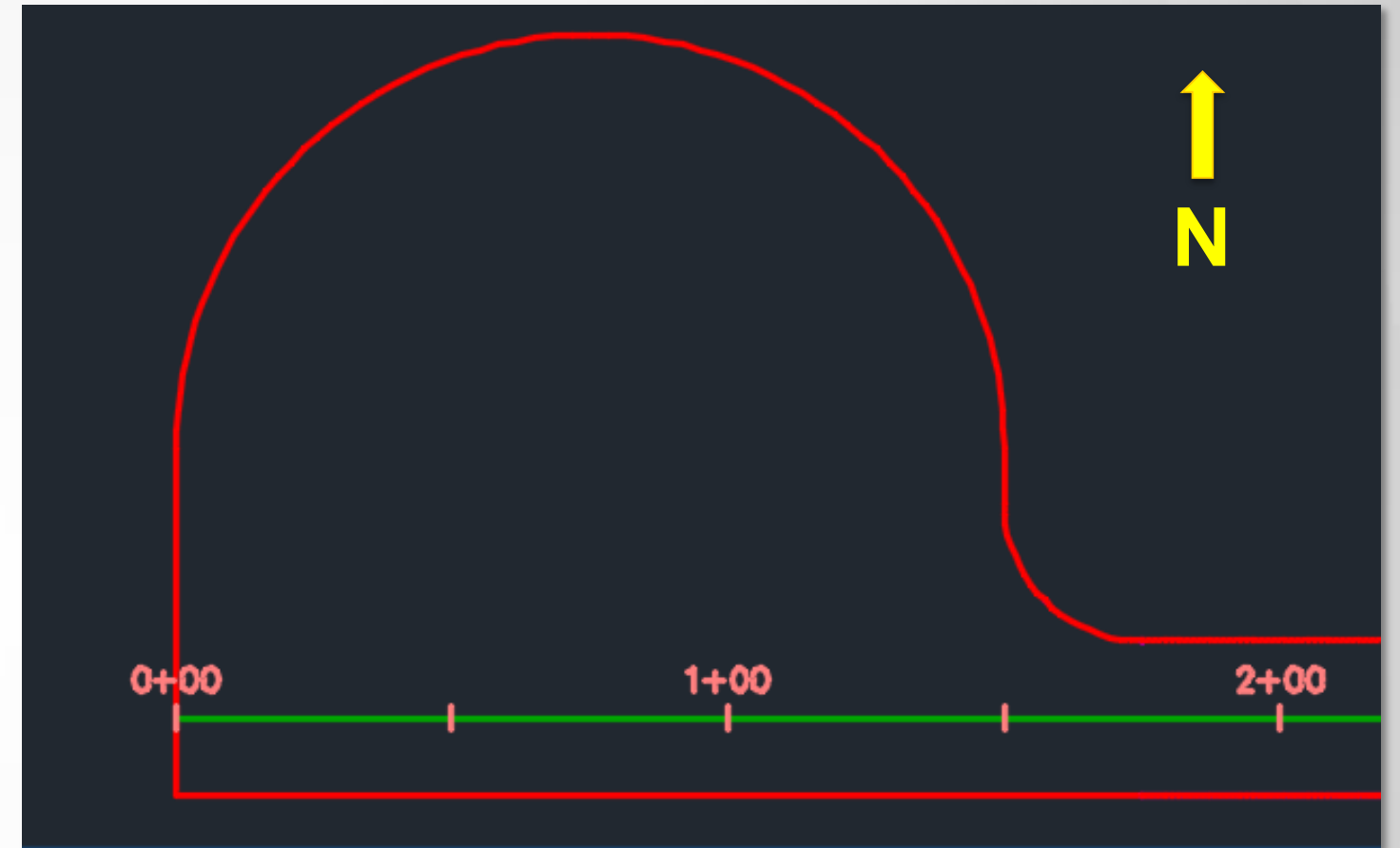
- Additional Corridor; not part of primary Corridor
- Does NOT contribute directly to the FG Corridor Surface
- Only generates vertical base data for the primary Corridor
- Base data is Surface Profiles from Auxiliary Corridor Surface
- Base data used as Baselines or Targets in primary Corridor

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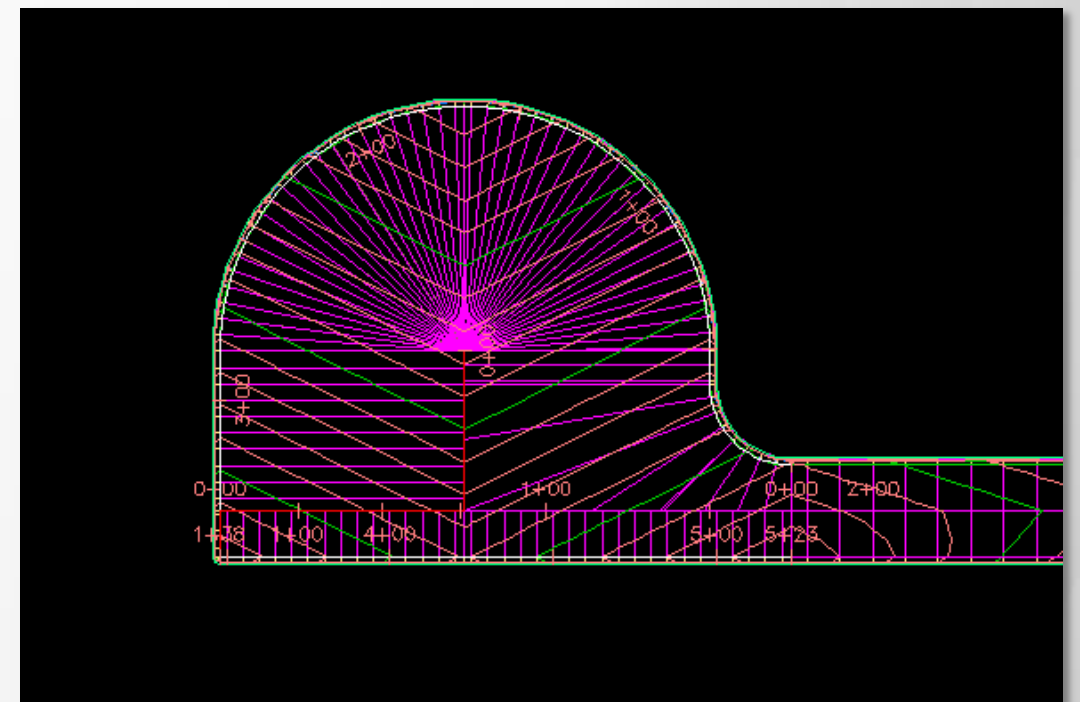
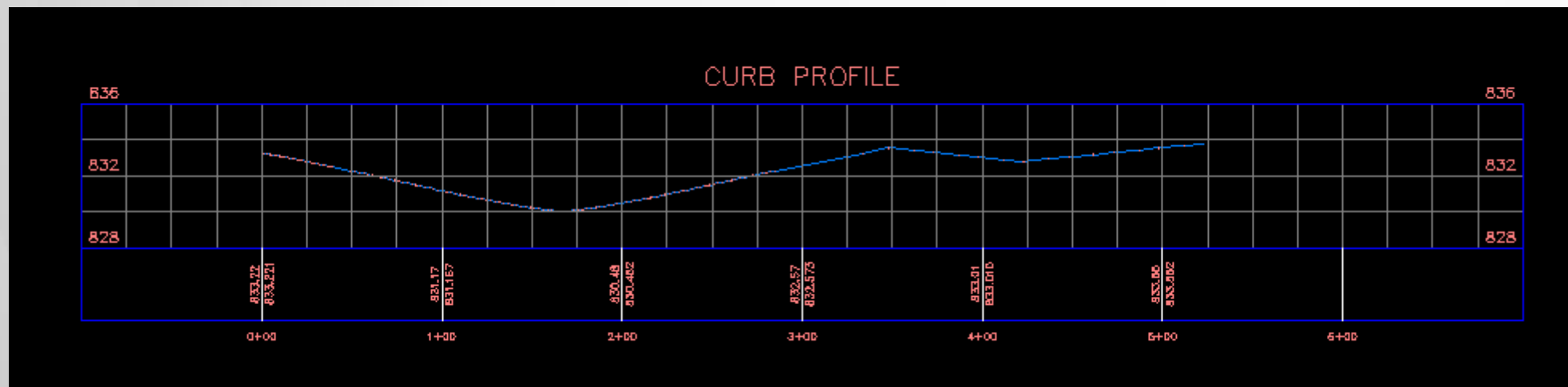
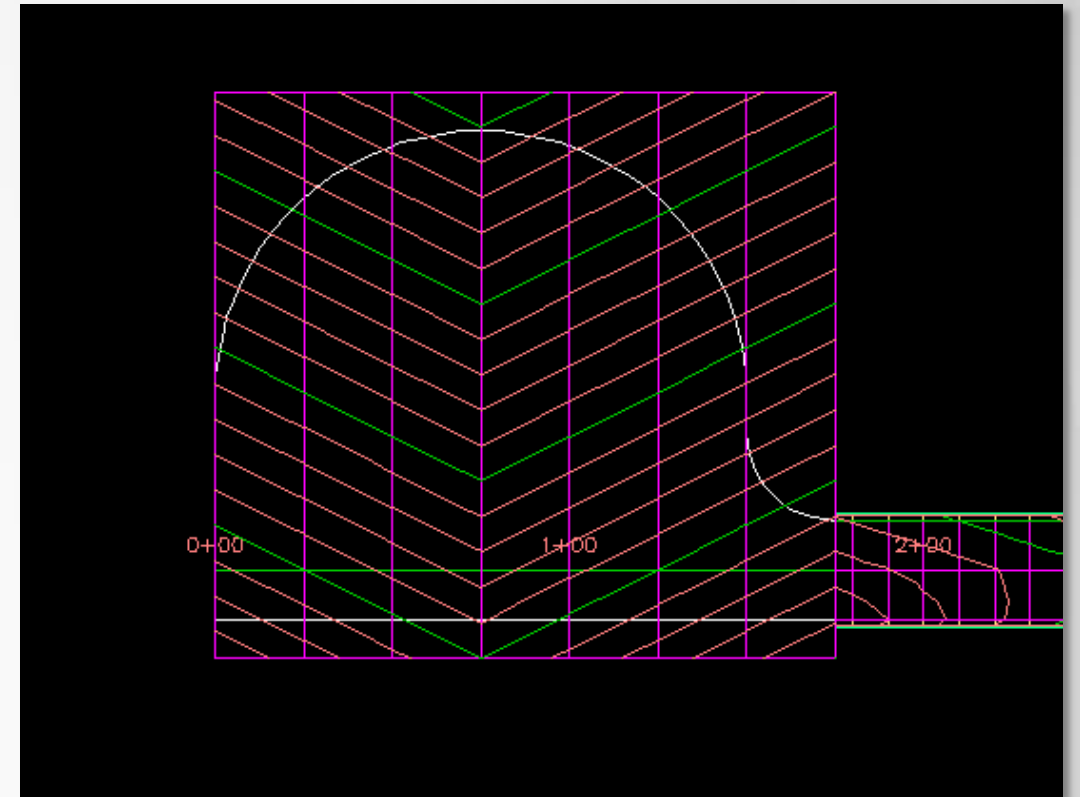
Example 1: Asymmetrical Cul-de-sac

- Model industrial entrance
- Sheet drain to north
- Curb Assembly Follows Bulb
- How to create Profile for Cul-de-sac bulb?



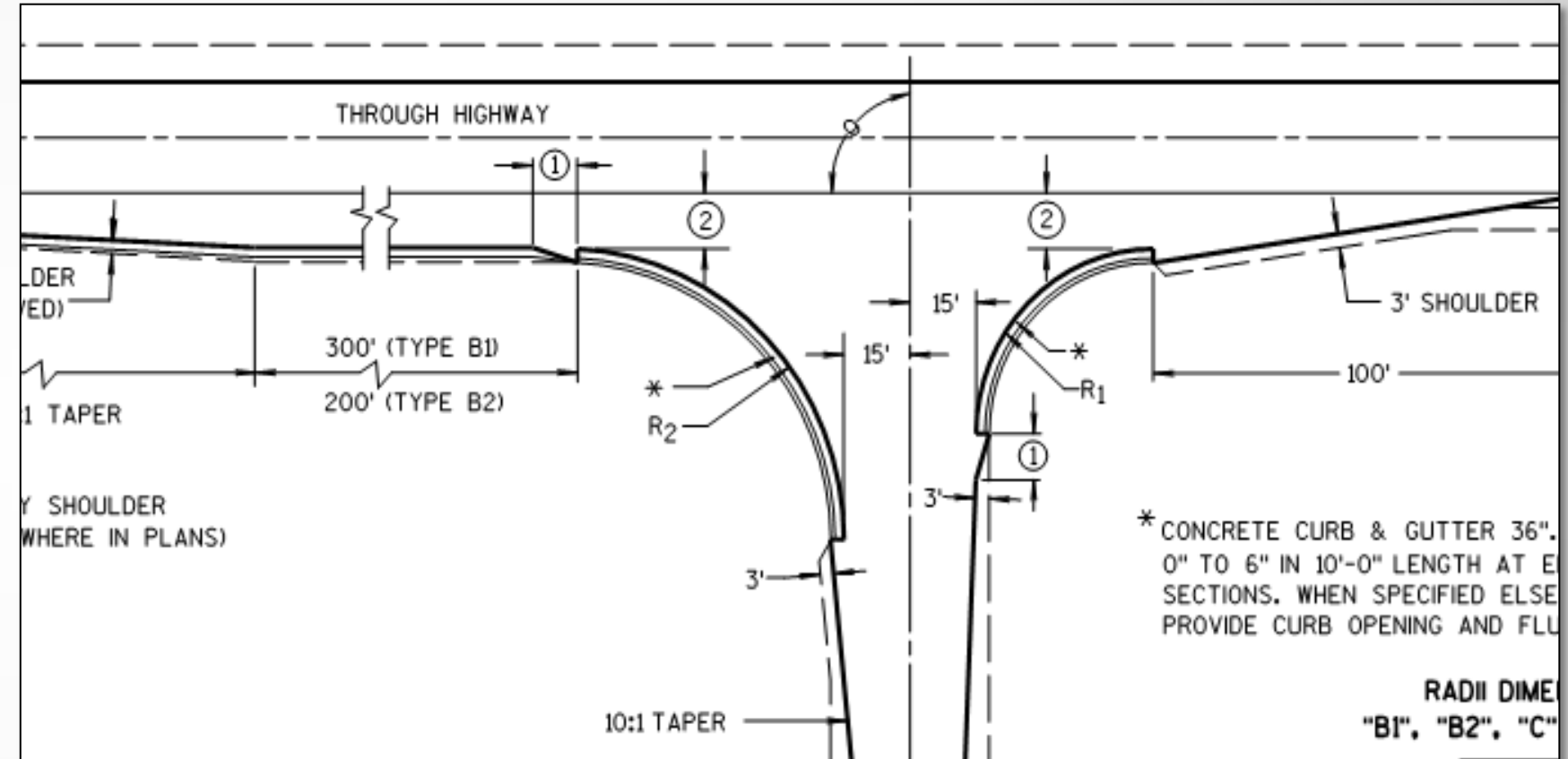
Example 1: Asymmetrical Cul-de-sac

- Create Auxiliary corridor based on original profile
 - Create surface profile from auxiliary surface
 - Add horizontal and vertical baselines and targets to main corridor model
- to main corridor model



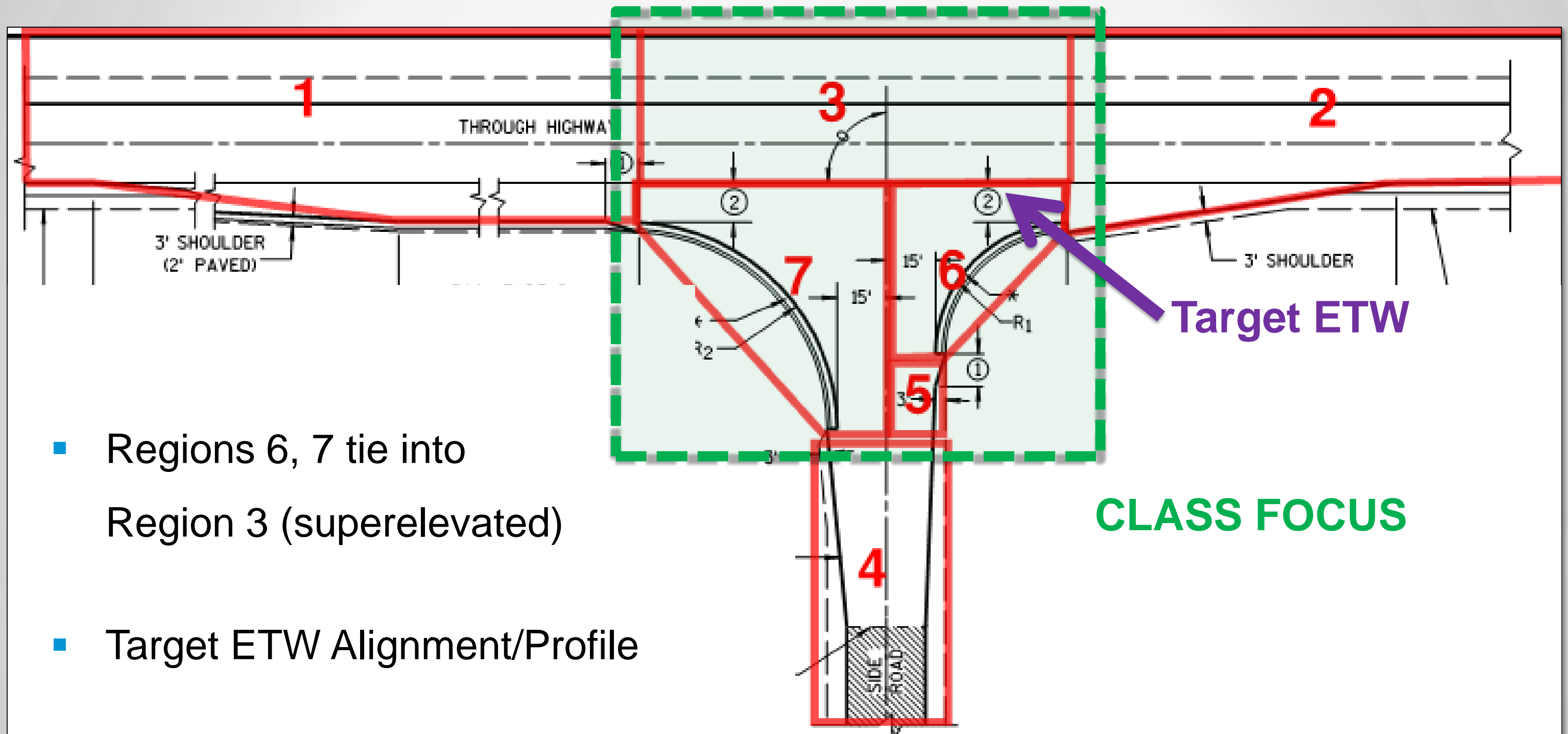
Example 2: Superelevated Intersection

- Superelevated through-road
- All one Corridor
- Alignments & Profiles used for all Targets; in separate DWG
- How to tie-in side road to through-road ETW?



WISDOT "T" Intersection

Example 2: Superelevated Intersection



- Regions 6, 7 tie into Region 3 (superelevated)
- Target ETW Alignment/Profile

Conclusions and Questions

- Auxiliary Corridors make models:
 - More dynamic: link Target Objects & Baselines to Primary Baselines
 - Easier to create: eliminate manual creation of complex Profile
- Advantageous when:
 - Vertical design is difficult to manually define, but easy to relate to centerline
 - OR when non-parallel horizontal geometry exists
- Questions???

CTC's Booth

- Come check out CTC's booth in the Exhibit Hall: **#206**
 - CIM Tools
 - Civil 3D add-ins
 - Civil 3D Corridor Content Pack
 - Revit Express Tools
 - Revit add-ins
 - Revit Content Packs



CTC
Software Developers

Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2015 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time



