Notes to the Designer

Updated April 2023

3R Typical Section Sheets - Minor Horizontal/Vertical Alignment Adjustments

General Information

- All graphics and text will be in the design model. Only use the sheet model for printing and adding applicable guardrail as a reference; Reference guardrail using the appropriate saved view from the design model to the appropriate sheet model.
- Length of Project table is integrated into the design model. Double click on the cell to edit.
- **3R Horizontal/Vertical Alignment Adjustments Template Drawings.** Refer to the 3R+ Matrix to ensure this is the appropriate template to use for your application. Use these template drawings for spot locations where Horizontal and Vertical Alignment adjustments are proposed along with re-use of the existing pavement.
- Road Inventory Program Milepost data. The NPS uses the Road Inventory Program (RIP) as part of their asset management program. Include the RIP milepost data in the 'Length of Project' table for NPS projects only. To find this information, use VisiData (see the VisiData Route_GPS Workspace to see mileposts and GPS longitude and latitude) or ask Planning and Programming. Delete the last column in the 'Length of Project' table for all non-NPS projects (e.g. USFS, USFWS, IRR, etc.).
- **Safety Edge.** Use the safety edge on all projects with asphalt surfacing with the following exceptions: roadways w/curb and gutter, bridges and other structures, parking areas, projects less than 1000 ft long, such as bridge approaches, pavement preservation projects.

Applicable SCRs

SCR's used can vary based on the project and pay items used. Ensure that SCR's provided are consistent with the pay items provided in the contract. Coordinate with the Pavements Engineer to select and edit the appropriate SCR for the project. Include in Section 152 what information is being provided to the Contractor. Recommend using 304 SCR if the project requires regrading the subgrade. Refer to the designer's notes in each SCR for common items needing input and editing.

Typical Pay Items Used

- The pay items used for 3R projects in Sections 152, 302, 304, 401, 402, 403 can vary per project. Refer to the CFLHD Engineer's Estimate Manual for recommended pay items. Coordinate with the Pavements Engineer to determine the most appropriate pay items for the structural section. Use Section 304 pay item when pulverizing and re-using the existing pavement. Evaluate the need to include a separate 302 pay item for imported aggregate as well based on volumes required to construct proposed typical section.
- Subexcavation may be included. Roadway excavation or embankment will be included.

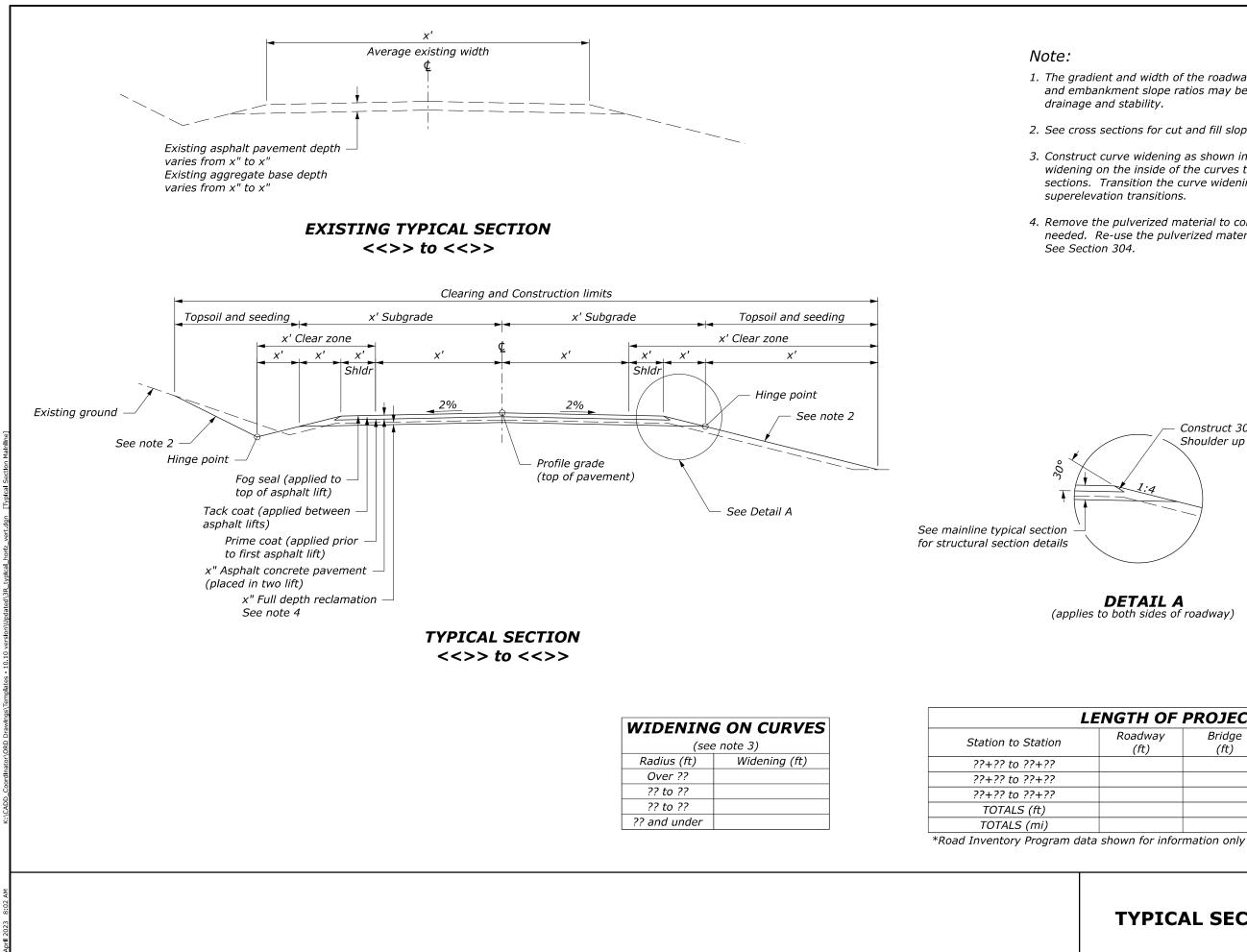
Other Recommendations for 3R Widening

- Cross sections are typically provided.
- Staking Reports are typically provided. Provide subgrade template and blue top reports.
- Plan/Profile sheets typically provided.

Updates

- April 2021

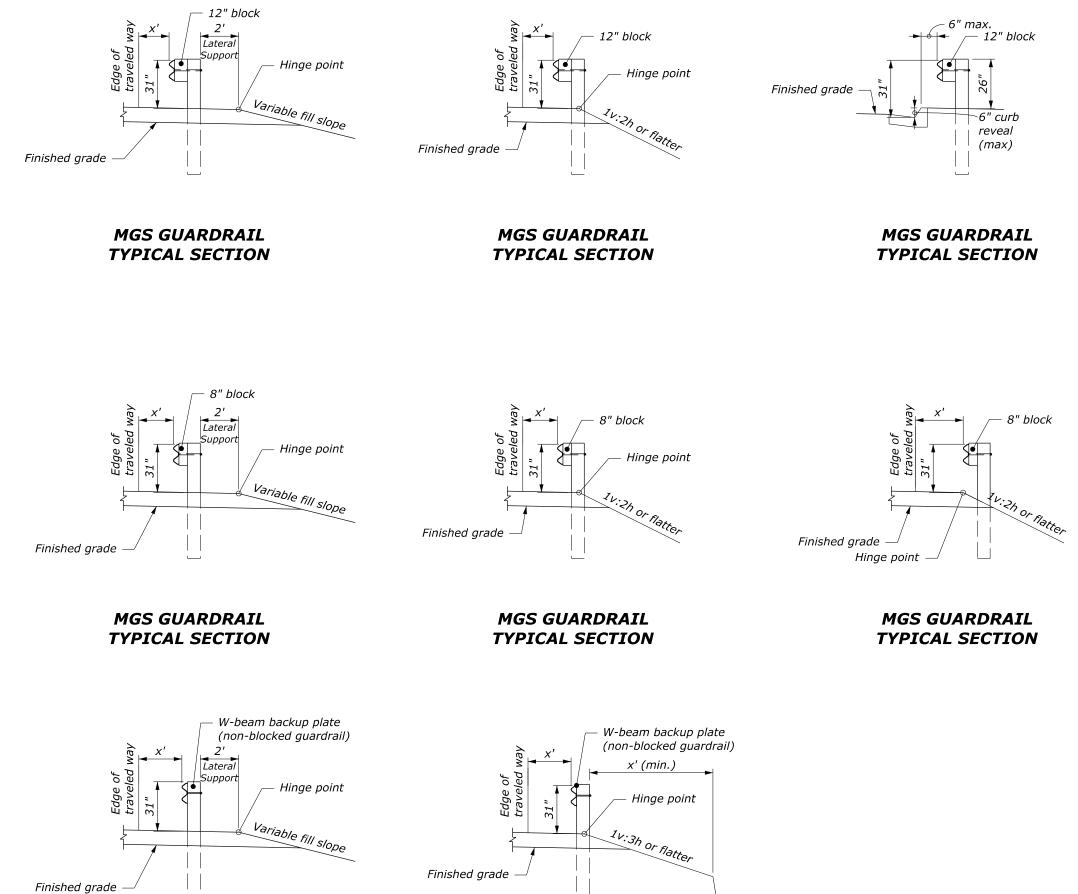
- Template sheet created
- October 2022
- References to 308 pay item and SCR removed
- April 2023
- Updated safety edge detail; updated border; updated to international seed file



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TYPICAL SECTION MAINLINE



MGS GUARDRAIL TYPICAL SECTION

MGS GUARDRAIL **TYPICAL SECTION**