NOTE:

1. The gradient and width of roadway ditches and the excavation and embankment slope ratios may be adjusted by the CO to assure adequate drainage and stability.

2. See the cross sections for cut and fill slope ratios.

3. Round all earth slopes and all rippable rock slopes. For cut heights less than 0, reduce the B and F dimensions to the actual cut height.

4. Construct curve widening as shown in the table below. Apply the widening on the inside of curves throughout the superelevated sections. Transition the curve widening to coincide with the superelevation transitions.

LENGTH OF PROJECT

<table>
<thead>
<tr>
<th>Station to Station</th>
<th>Roadway (ft)</th>
<th>Bridge (ft)</th>
<th>Road Inventory Program Milepost Data (Cycle #)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>77+77 to 77+77</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTALS (ft)

TOTALS (mi)

*Road Inventory Program data shown for information only

METHOD OF SUPERELEVATION ON CURVES

See plans for locations of curves and superelevations
**Notes to the Designer**

*Updated April 2020*

**4R Typical Section Sheets**

**General Information**
- All graphics and text will be in the sheet model. Guardrail can be cut and paste from its own model to the desired model.

- Length of Project and Curve Widening tables are integrated into the sheet. Double click on the cell to edit.

- **Note 4 on the plan sheet.** Note 4 shown on the plan sheet applies to simple curves only. If you use spiral curve transitions, adjust Note 4 to include the following:

  Construct curve widening as shown in the table below. For simple curves, apply the widening on the inside of curves throughout the superelevated sections. For spiral curves, apply one half of widening to each side of centerline. Transition the curve widening to coincide with the superelevation transitions.

- **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).

- **Cut Slope Rounding.** Refer to the PDDM Subsections 9.5.1.1 and 9.5.2.3.3 for more information on clearing widths and cut slope rounding widths. For a default value, use B=5’ and F=5’.

**Applicable SCRs**
- Varies

**Typical Pay Item Used**
- Varies

**Updates**
- **April 2021**
  - Added guardrail typical sections
  - Updated for OpenRoads Designer