



1. The short radius W-beam guardrail system (SRGS) shown is a MASH TL-3 barrier system. The system is for shielding highway or road users from roadside areas where a main road and a side road intersect in close proximity to a bridge or a location that the length of need cannot be provided upstream of the hazard.
2. Use SRGS thrie beam transition with W-beam backrail as shown. Do not shorten the transition. Curb is not required beneath the thrie beam transition, but can be added.
3. The cables begin in the SRGS thrie beam transition section and end in the trailing end section.
4. If there is no rigid barrier on the highway or main road, the SRGS should be installed symmetrically without the SRGS thrie beam transition. The section along the highway or main road should be the mirror image of the side road installation.
5. The top and bottom cables shall be 3/4-inch diameter galvanized. The finished cable assembly will be installed so that the cable assembly is put in tension until all slack is removed.
6. An additional 18 foot 9-inch long W-beam (10 gauge) is attached to the back of the thrie beam. The W-beam backrail is directly connected to the posts without blockouts.
7. Install rectangular guardrail plate washers under guardrail nuts at the splice between the thrie beam guardrail and thrie beam terminal connector.
8. The clear area (measured 15 feet from the highway or main road and 30 feet from the side road) behind the SRGS shall remain unobstructed and unencumbered to allow the guardrail to function properly. Obstacles (i.e. endwalls, signs, ditches, etc.) within this area must be removed, relocated, or redesigned.
9. W-beams shall be shop bent as required. Where indicated, bolt blockout to post, but do not bolt through W-beam. Do not install curb in the curved section.
10. In the 8-foot radius curved section, the center post, the first post, the last post and every other post shall not be connected to the rail. The radius and post spacing are measured from inside of the rail, and the installation lengths of guardrail and cables are measured along traffic side.

- ACCOMPANIED BY DWGS.:
RD490B, RD490C, RD490D, RD490E
RD490F, RD490G, RD490H

OREGON STANDARD DRAWINGS
SHORT RADIUS GUARDRAIL
SYSTEM (SRGS)
OVERVIEW
SHEET 1 OF 8
2024

DATE	REVISION DESCRIPTION
05-2024	CREATED NEW DRAWING
12-2025	REVISED NOTES AND DETAILS

CALC. BOOK NO. - - - - <u>N/A</u> - - - -	SDR DATE - <u>13-JAN-2026</u>	RD490A
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Effective Date: June 1, 2026 – November 30, 2026