STRENGTHENED MIDWEST GUARDRAIL SYSTEM SECTIONS

FOR FIXED OBJECT

Use strengthened MSG sections with layout Type 16H where minimum clearance between the face of the MSG and fixed object(s) is less than 4'-0", but not less than 3'-0". See Note 4.

NOTES:

1. Line posts, blocks and hardware to be used are shown on Revised Standard Plan RSP A77R6, RSP A77L1, RSP A77L2, RSP A77M1, RSP A77N1 and RSP A77N2. For instructions on use, see Notes 4, 7, 11 and 12.

2. MSG post spacing to be 6'-3" center to center, except as otherwise noted. See Note 4.

3. Except as noted, line posts are 6" x 8" x 6'-0" wood post with 6" x 8" x 1'-2" wood blocks. As an option, MSG posts may be 6" x 8" x 6'-0" HDG steel post, 6'-0" in length, with 6" x 8" x 1'-2" HDG steel blocks. Notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 1'-2" wood blocks where applicable and then specified. See Notes 4, 7, 11 and 12.

4. 4'-0" minimum clearance is required between the face of the MSG and fixed object(s) in the 6'-3" center to center spacing. See Note 4, 7 and 11.

5. 31" flared terminal system and treatments are used where site conditions will not accommodate a 31" flared end treatment.

6. The type of 31" terminal system to be used will be shown on the Project Plans.

7. As site conditions dictate, construct additional MSG to shield fixed object(s) and a crashworthy 31" end treatment is required for both directions of traffic.

8. Layout Types 150 through 16L, shown on the ATR Series of Standard Plans, typically used where MSG is recommended to shield roadside fixed object(s) and a crashworthy 31" end treatment is required for both directions of traffic. See Notes 4, 7, 11 and 12.

9. Where placement of dike is required with MSG, see Revised Standard Plan RSP A77N4 for dike positioning details.

10. As noted, 15 steel posts, 8'-0" in length, with 8" x 8" x 1'-2" notched wood block or notched recycled plastic block may be used in place of the 10" x 10" x 8'-0" wood post with 8" x 8" x 1'-2" wood block shown in the detail "Strengthened Midwest Guardrail System Sections for Fixed Object(s)," where the clearance between the face of the MSG and fixed object is less than 4'-0", but not less than 3'-0". See Note 4.

11. Use this offset for 8" block. For 12" block use minimum 4'-0" offset, as shown in the detail "Strengthened Midwest Guardrail System Sections for Fixed Object(s)."