METAL BEAM GUARD RAILING WITH STEEL POSTS
AND NOTCHED WOOD OR NOTCHED RECYCLED PLASTIC BLOCKS

SECTION THRU RAIL ELEMENT

RAIL ELEMENT SPLICE DETAIL

1. Lap rail elements in direction of traffic.

2. To connect overlapped end of the rail elements with 1/2" x 2½" button head oval shoulder splice bolts inserted into the 3⁄8" x 1" slots and bolted together with 1/2" Ø recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.

3. The ends of the rail elements are to be overlapped in the direction of traffic (see details).

4. Connect the overlapped end of the rail elements with 3⁄8" x 2½" button head oval shoulder splice bolts inserted into the 3⁄8" x 1" slots and bolted together with 3⁄8" Ø recessed hex nuts. Recess of hex nut points toward rail element. A total of 4 of the above described splice bolts and nuts are to be used.

5. For details of wood post installations, see Standard Plan A77H1.

6. For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77G1.

7. Guard railing post spacing to be 6'-3" center to center, except as otherwise noted.

8. For guard railing typical layouts, see the A77E, A77F and A77G Series of Standard Plans.

9. To connect railings to bridge system and treatment, transition the top of railing height at a ratio of 120:1 to terminal system, and treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.

10. For additional details of guard railing connection to bridge railings, see Standard Plans A77J1, A77J2 and A77K1.

11. For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77B1.

12. For details of wood post installations, see Standard Plan A77H1.

13. For details of steel posts and notched wood blocks used to construct guard railing, see Standard Plan A77G1.

14. Slotted hole for bolted connection of rail element to block see Section Thru Rail Element.

15. Slotted holes for splice bolts to overlap ends of rail element, see Section Thru Rail Element.

16. Install posts in soil.