A. USE THE CURRENT AASHTO ROADSIDE DESIGN GUIDE TO ESTABLISH CLEAR ZONE AND LENGTH

1. APPROPRIATE SYSTEMS: FLEAT 350, MANUFACTURED BY ROAD SYSTEMS, INC. AND SRT - HBA MANUFACTURED
   BY TRINITY INDUSTRIES REFER TO GUIDELINES FOR CRASH CUSHIONS AND BARRIER END TREATMENTS
   FOR SPECIFIC SYSTEM DETAILS.

2. SYSTEM OFFSET
   A. INSTALL EITHER SYSTEM WITH A 4 FT OFFSET WHEN USED WITH A TANGENT BARRIER SYSTEM.
   B. use guardrail transition, BA 4 SERIES STD DWGS, WHEN ATTACHING THE SYSTEM TO CONCRETE
   FOUNDATION TUBE.

3. POST OPTIONS: REFER TO GUIDELINES FOR CRASH CUSHIONS AND BARRIER END TREATMENTS FOR
   APPROVED POST OPTIONS.

4. USE 12 1/2 FT RAIL SECTIONS (3 EACH SECTIONS), SLOTTED ACCORDING TO MANUFACTURER'S REQUIREMENTS.

5. COMPLETE SLOPE PREPARATION BEFORE INSTALLING SYSTEM. MEET SLOPE REQUIREMENTS IN
   RECOVERY AREA AS DETAILED IN APPLICABLE DD STD DWG. THE ADDITIONAL INFORMATION LISTED
   BELOW IS THE MINIMUM ACCEPTABLE SLOPE REQUIREMENTS FOR THE APPROACH AREA OF THE END
   TREATMENT AND THE RECOVERY AREA.

   a. USE 10:1 OR FLATTER FORESLOPES IN APPROACH AREAS WHEN SYSTEM IS PLACED WITHIN 12 FT OF
      THE EDGE OF SHOULDER.
   b. USE OF A FORESLOPE STEEPER THAN 10:1 AND FLATTER OR EQUAL TO 6:1 PERMITTED FOR APPROACH
      FORESLOPE HINGE POINT.
   c. USE 4:1 OR FLATTER BACKSLOPE IN APPROACH AREA TO CLEAR TREATMENT.
   d. MATCH ROADWAY

6. CLEAR RECOVERY AND APPROACH AREAS OF ANY FIXED OBJECTS OR HAZARDS.
   a. DO NOT PLACE SIGNS, POSTS, OR OTHER HAZARDS IN APPROACH AREA.
   b. USE BREAKAWAY SIGNS OR POSTS WHEN PLACED IN RECOVERY AREA, AND MAINTAIN A MINIMUM 10 FT
      CLEARANCE TO THE EDGE AND REAR OF SYSTEM. IDENTIFY POTENTIAL HAZARDS IN RECOVERY AREA.
   c. INSTALL REQUIRED MARKINGS ACCORDING TO STO DWG CC 1.

7. CONSTRUCT PLATFORM AS REQUIRED EVEN IF THE PLATFORM EXTENDS BEYOND THE CLEAR ZONE.

8. USE GUARDRAIL TRANSITION, BA 4 SERIES STD DWGS. WHEN ATTACHING THE SYSTEM TO CONCRETE
   BARRIER OR BRIDGE PARAPET.

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10. USE THE CURRENT AASHTO ROADSIDE DESIGN GUIDE TO ESTABLISH CLEAR ZONE AND LENGTH
    OF NEED (LON) REQUIREMENTS.

11. 2 FT MINIMUM BARRIER OFFSET IS OPTIONAL WHEN ROADWAY DESIGN REQUIRES A 12 FT OR WIDER
    EFFECTIVE SHOULDER.