

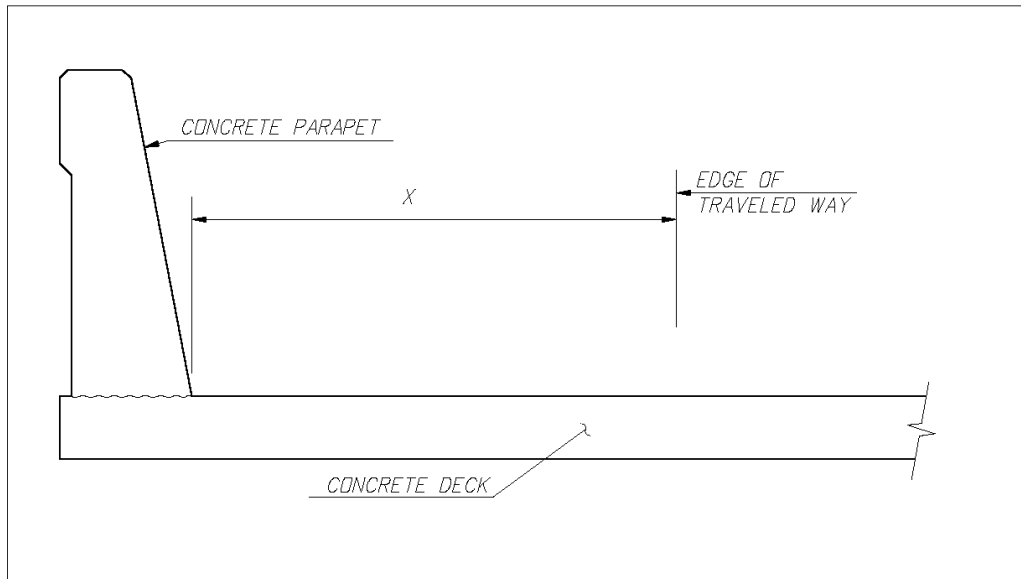
## **STRUCTURE WIDTH**

**X = shy-line offset distance from the Table in Article 2.3.3.3**

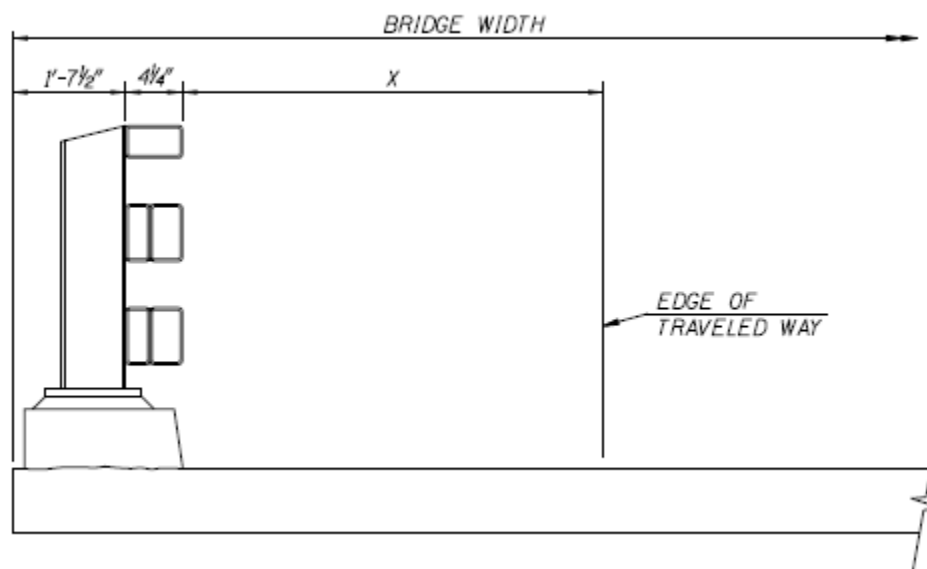
### **BRIDGES – NO SIDEWALK**

Concrete Parapet

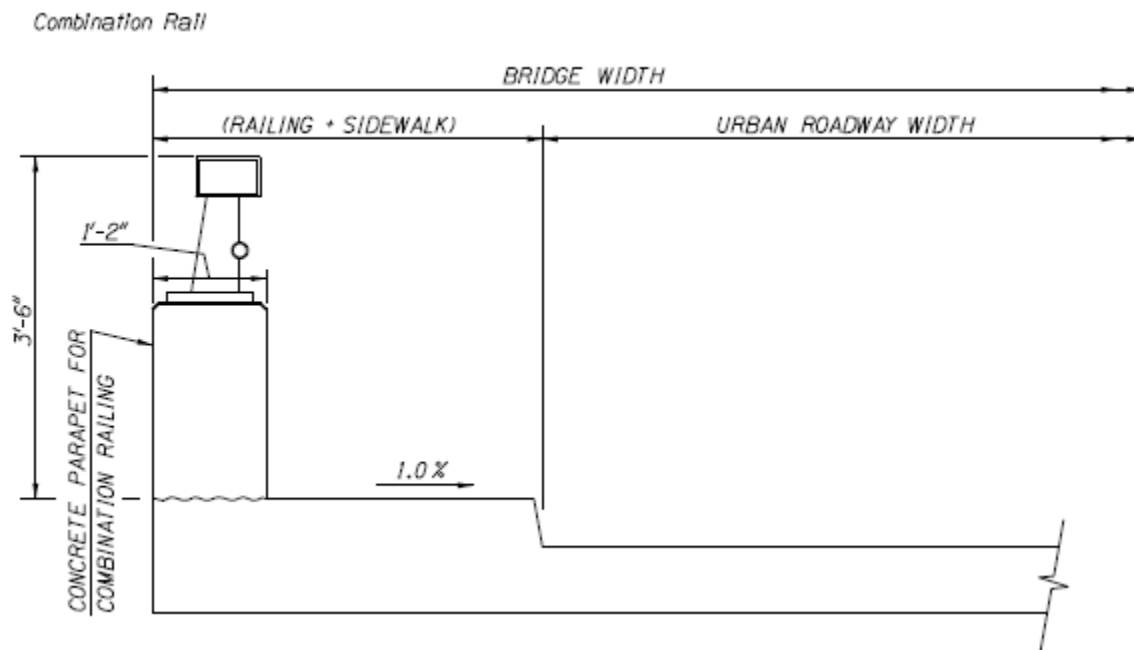
42" Single Slope Concrete Parapet



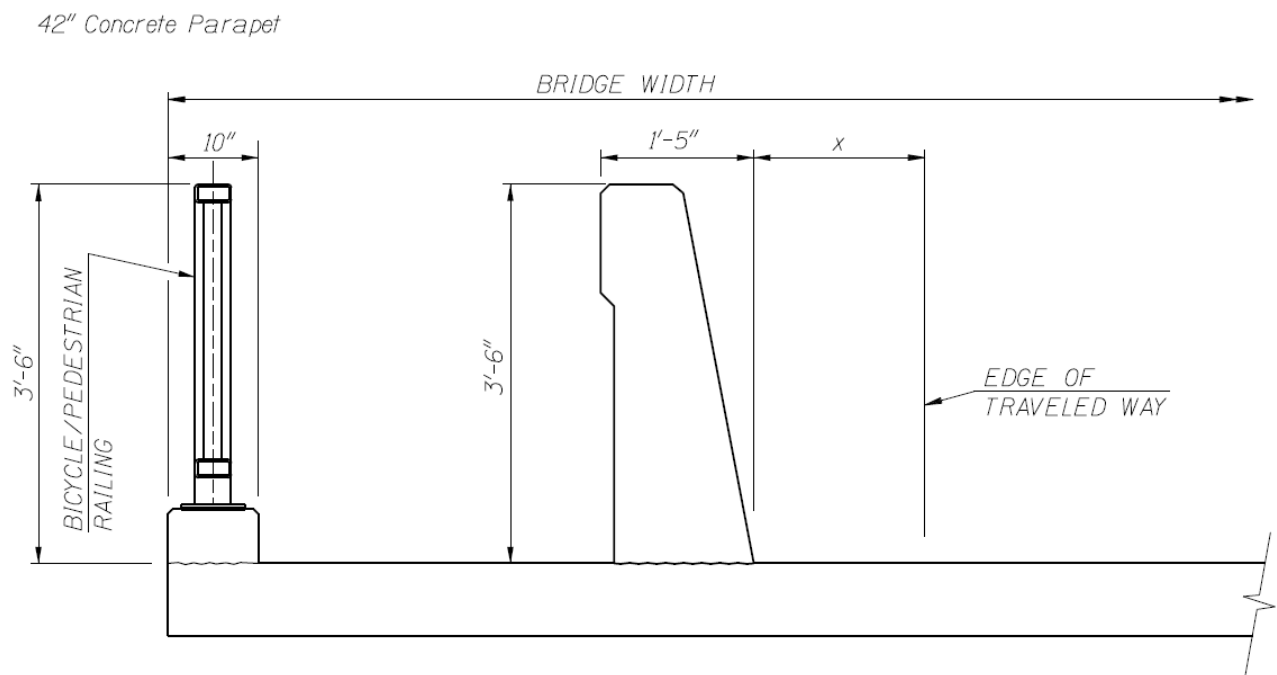
*3-Tube Curb Mount Rail*



## **BRIDGES – RAISED SIDEWALK WITH SPEEDS 45mph AND LOWER**

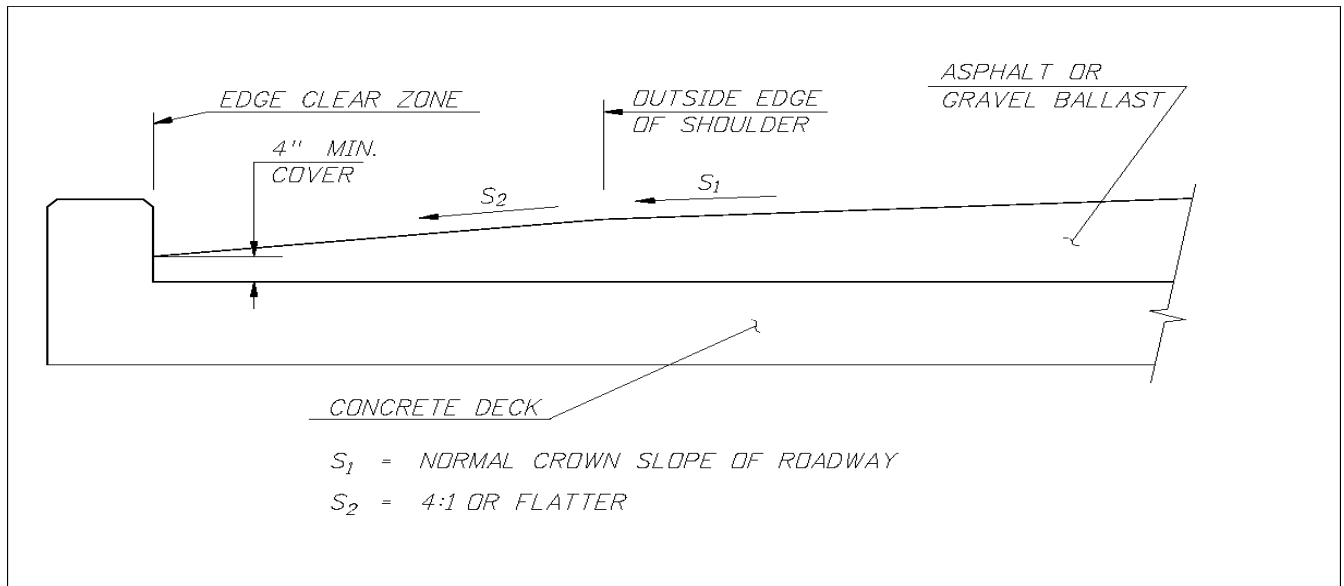


## **BRIDGES – AT-GRADE SIDEWALK FOR SPEEDS OVER 45mph**



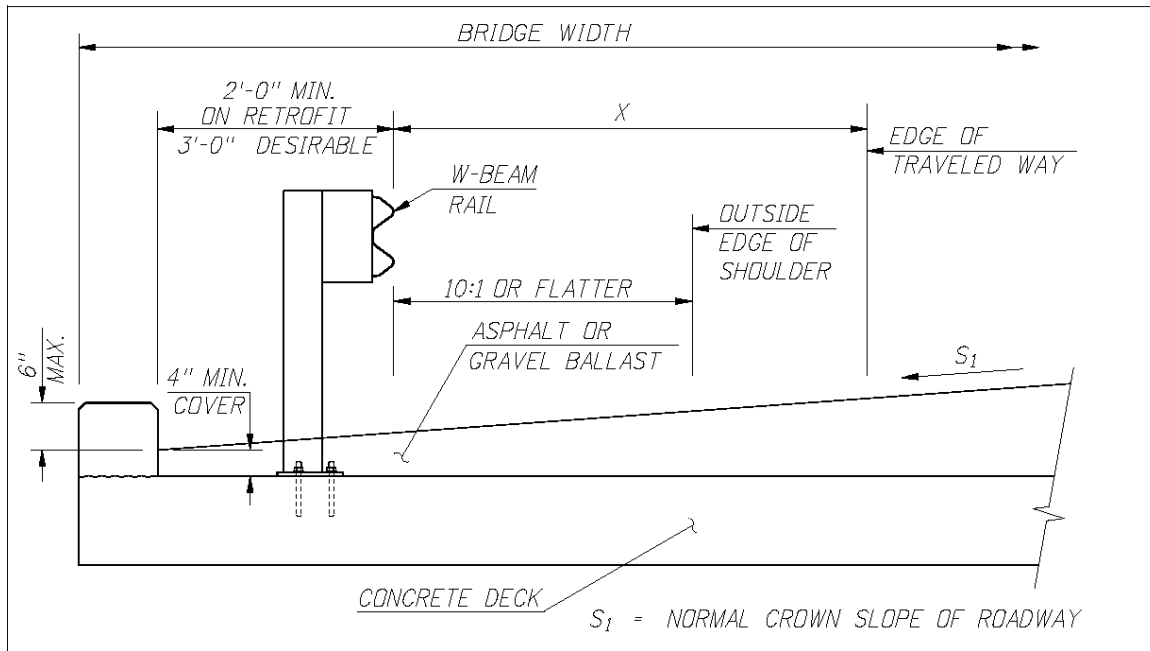
### **CULVERTS – CLEAR ZONE PROVIDED**

Clear zones for NHS routes are shown in Roadway Design Manual Appendix A.10 Figure A-2.  
Clear zones for Non-NHS routes are shown in Roadway Design Manual Appendix A.15.09

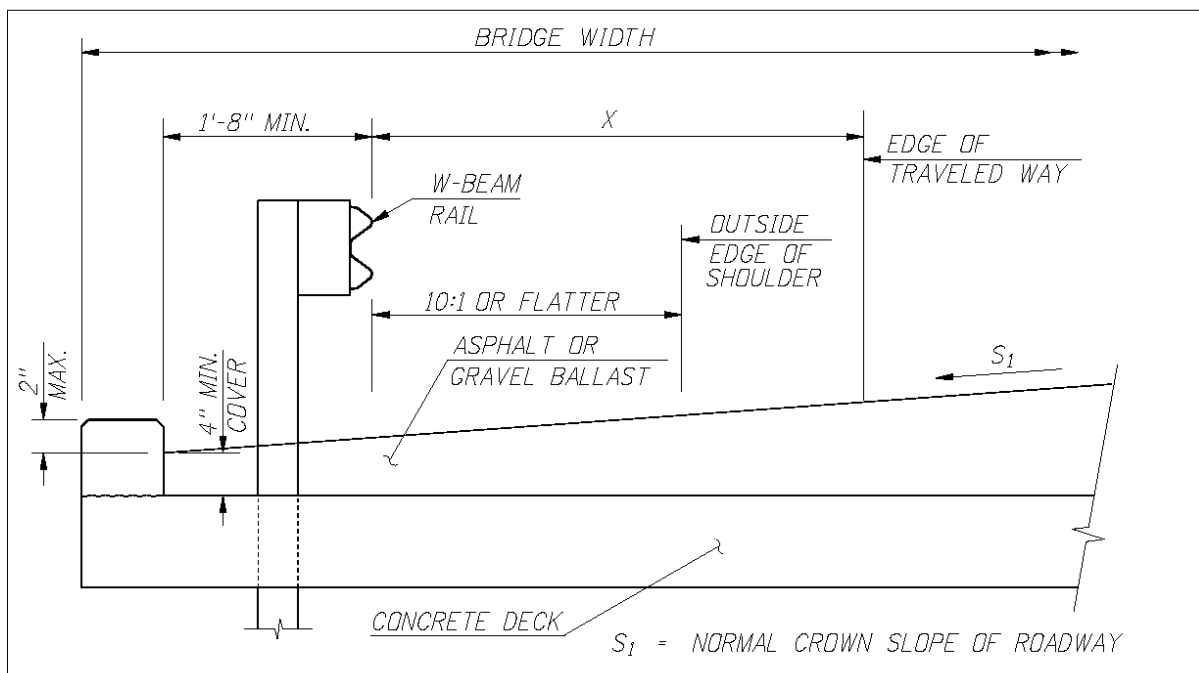


## CULVERTS – CLEAR ZONE NOT PROVIDED

Metal Rail with posts attached to the culvert

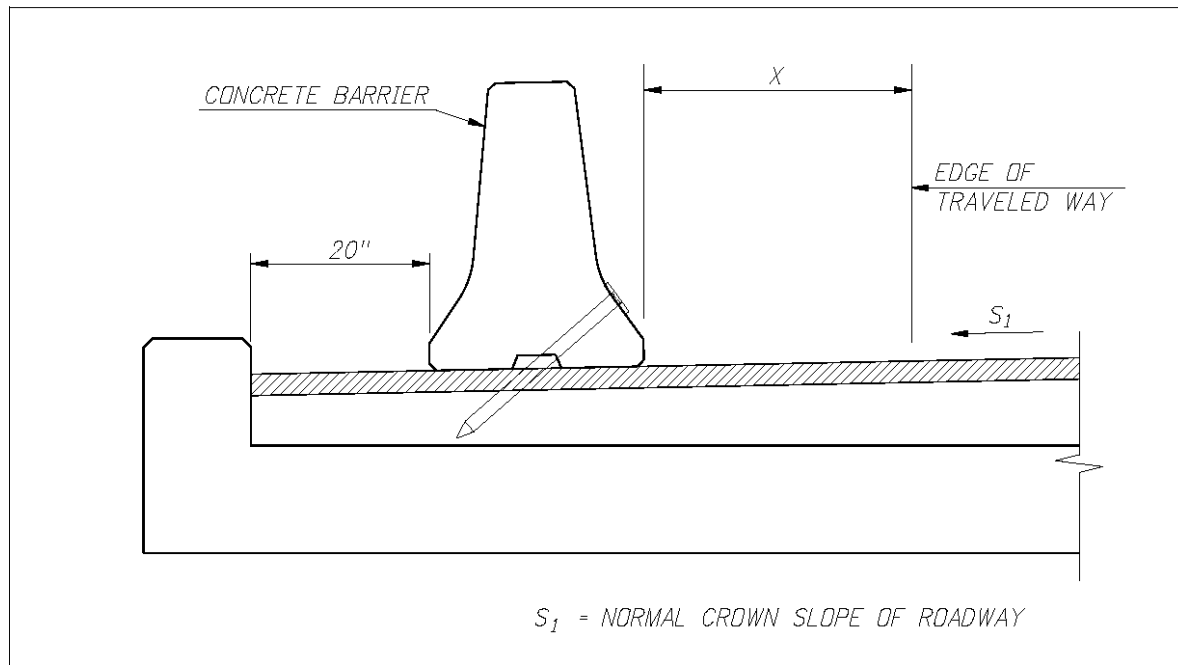


Metal Rail with no posts attached to the culvert



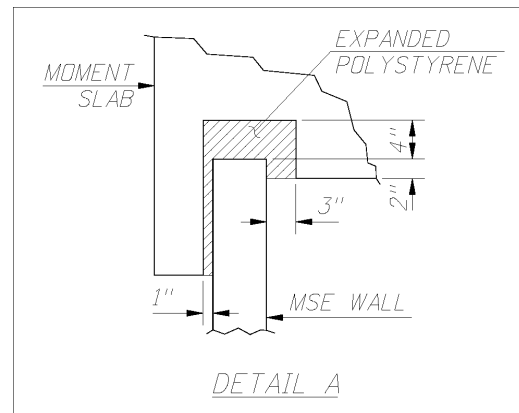
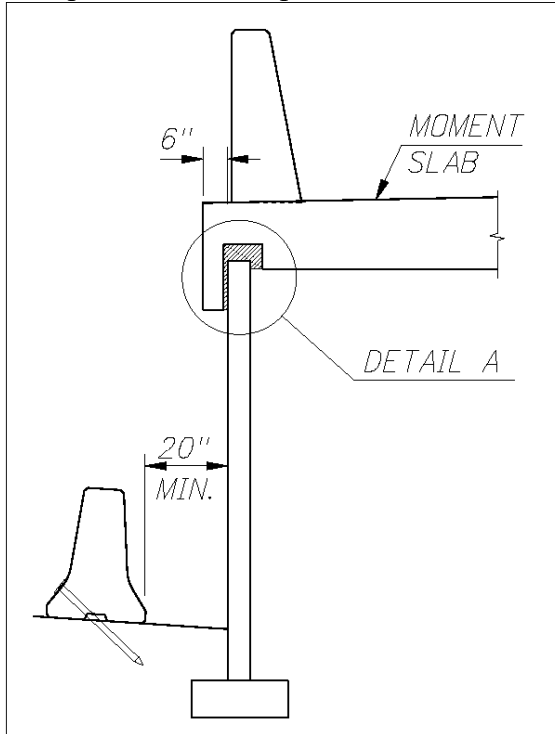
## CULVERTS – CLEAR ZONE NOT PROVIDED

42" Single Slope Concrete Parapet  
Staked Concrete Shoulder Barrier – Standard Drawing 612-18

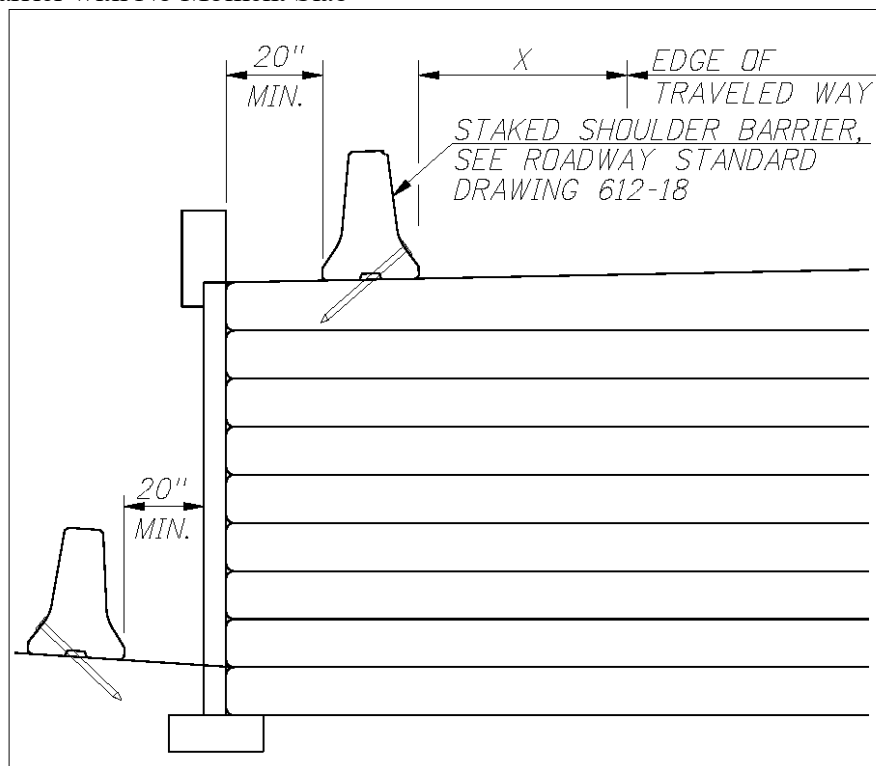


## MSE WALLS

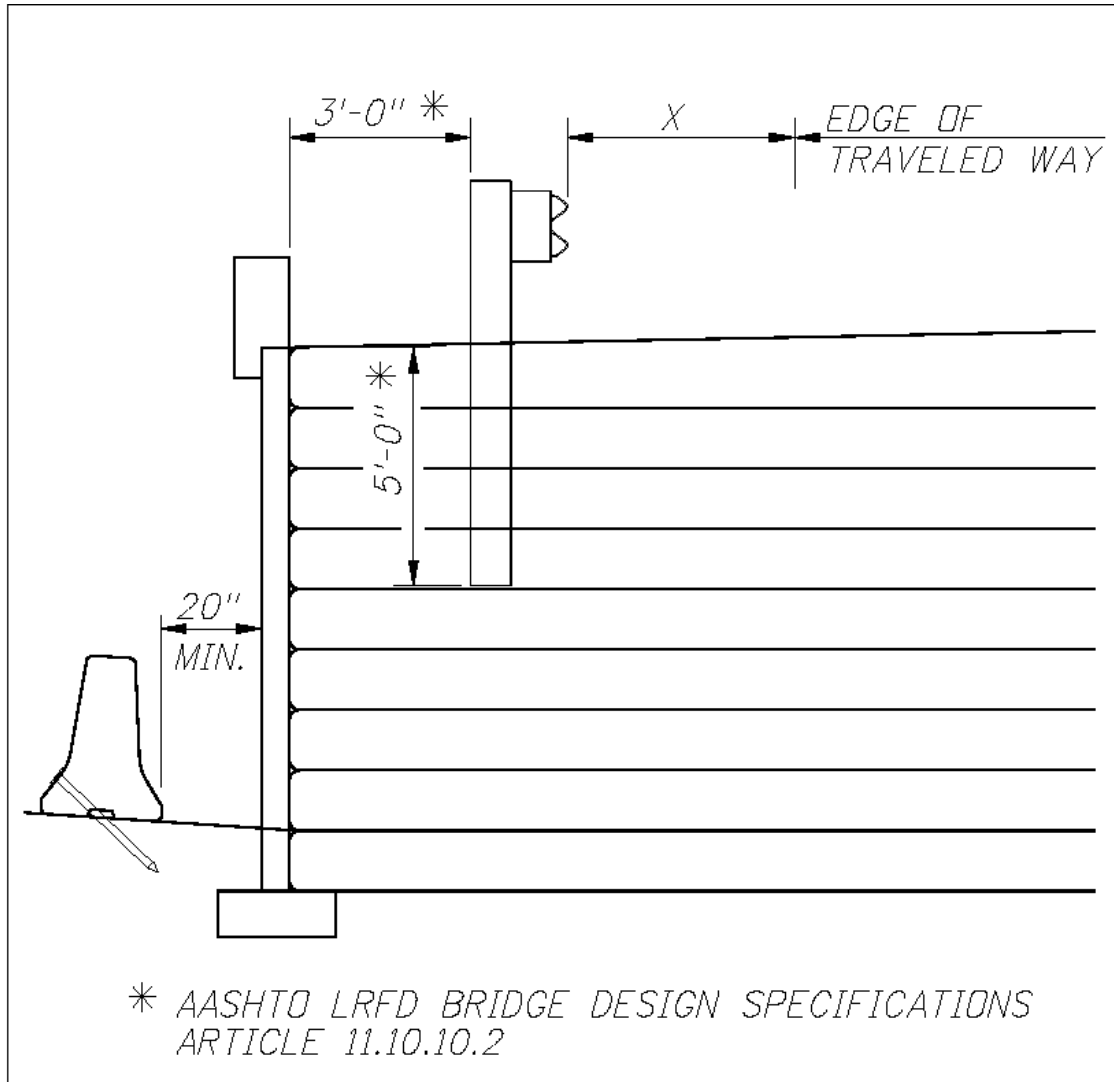
### Single Slope Concrete Parapet with Moment Slab



### Concrete Barrier with No Moment Slab



**MSE WALLS**  
Metal Rail



Revisions:

Nov 2019

**Culverts – Clear Zone not Provided with posts attached to the culvert.**

Specified 6" maximum height of curb above fill.

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

**Culverts – Clear Zone not Provided with no posts attached to the culvert.**

Specified 2" maximum height of curb above fill.

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

**Culverts – Clear Zone not Provided with concrete parapet.**

Changed from New Jersey parapet to 42" single slope parapet.

Changed shy distance from "X-4" to "X".

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

**Culverts – Clear Zone not Provided with staked concrete parapet.**

Changed offset to face of curb from 3" to 20".

Changed shy distance from "X-4" to "X".

Revised reference to Standard Drawing from 612-5 to 612-18.

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

**MSE Walls with Moment Slab**

Changed from New Jersey parapet to 42" single slope parapet.

Added staked barrier in front of wall with a 20" offset.

**MSE Walls with no Moment Slab**

Revised reference to Standard Drawing from 612-15 to 612-18.

Changed offset at top of wall from 2' to 20".

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

Changed shy distance from "X-4" to "X".

Added staked barrier in front of wall with a 20" offset.

**MSE Walls with metal rail**

Specified 10:1 or flatter roadway slope beyond edge of traveled way.

Added staked barrier in front of wall with a 20" offset

Oct 2023

Renumbered article from A2.6 to A2.4

Deleted Jersey parapet detail for bridges with no sidewalk.

Revised two-tube curb mount rail to 3-tube curb mount rail detail for bridges with no sidewalk.

Revised combination rail detail to Texas combination rail details for bridges with raised sidewalk.

Revised Jersey parapet with metal rail to 42" single slope parapet details for bridges with at-grade sidewalk.