**CONCRETE BRIDGE PARAPET RAIL** 

(TO PROVIDE MIN 42" HIGH, INSTALL 10" BIKE/ PED. SAFETY RAIL

ON 32" MEDIAN CONCRETE BARRIER RAIL OR ON CONCRETE PARAPET

SEE STD. DWG. MM-BPR-2 AND MM-BPR-3)

DETERMINATION OF NEED BASED ON SLOPE AND DROP OFF

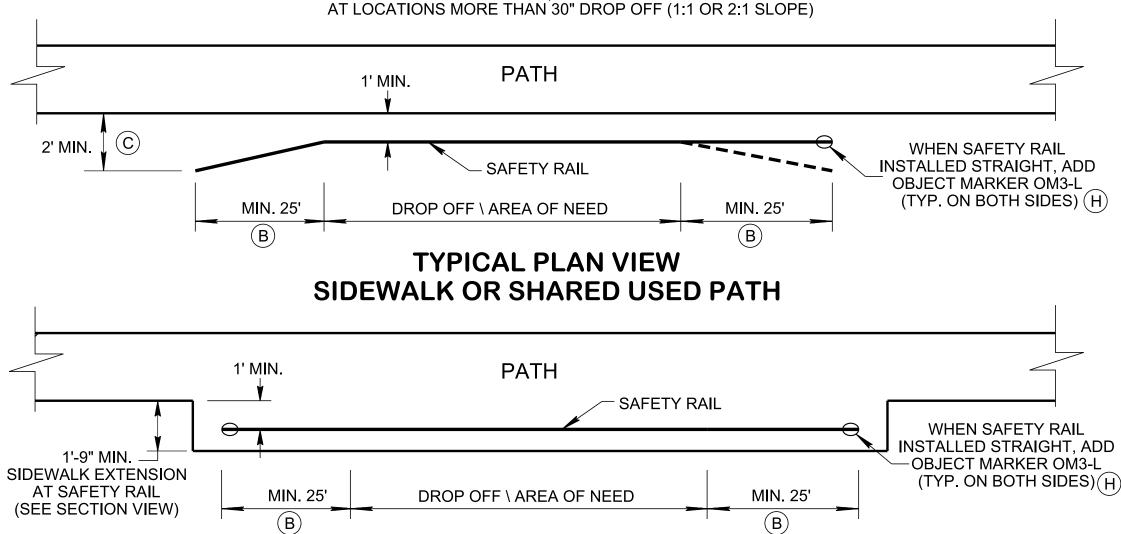
RAIL REQ'D

RAIL NOT REQ'D

X:1 SLOPE

FIGURE 1

BASED ON AASHTO BIKE GUIDE (CONSIDER PEDESTRIAN SAFETY RAIL



TYPICAL PLAN VIEW
FOR SIDEWALK OR SHARED USED PATH EXTENSION AT SAFETY RAIL

## **GENERAL NOTES**

- A

  TO DETERMINE IF SAFETY RAIL IS REQUIRED, REFER TO FIGURE 1 WHEN SHARED USE PATH OR SIDEWALK EDGE DROP OFF IS WITHIN 5'. INFORMATION IS PROVIDED FOR GUIDANCE ONLY, SOME SITES MAY REQUIRE A RAIL PER ENGINEERING JUDGEMENT. IF SIDEWALK IS ALONG A ROADWAY, SEE STANDARD DRAWING S-PL-6 FOR SAFETY HARDWARE PLACEMENT
- (B) SAFETY RAIL SHALL BEGIN 25' BEFORE AND EXTEND 25' BEYOND AREA OF NEED.
- © SAFETY RAIL ENDS SHALL BE FLARED TO BEYOND 2' OF THE EDGE OF THE PATH OR MARKED WITH OBJECT MARKERS.
- D STEEL (INCLUDING ANCHOR BLOLTS) SHALL CONFORM TO ASTM A36. WELD ALL COMPONENTS USE 3/16" FILLET WELDS. GRIND WELDS AND CONNECTIONS AS REQUIRED TO PROVIDE A SMOOTH SURFACE, FREE OF BURRS.
- (E) FIELD PAINT SAFETY RAIL AFTER INSTALLATION AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- DETAIL SHOWN IS FOR TOP RAIL. EXPANSION JOINT FOR BOTTOM RAIL IS SIMILAR.
- G SYSTEM REPLACEMENTS MAY BE ALLOWED PROVIDING THAT THE HEIGHT AND SPACING LIMITATIONS SHOWN ON THIS DRAWING ARE MET.
- H ALL COST ASSOCIATED WITH THE SAFETY RAIL, FURNISHING, INSTALLING AND PAINTING ALONG WITH THE OBJECT MARKERS WILL BE INCLUDED IN ITEM NO. 604-01.20, BOX TUBE SAFETY RAIL, PER LINEAR FOOT.
- STANDARD RIGHT-OF-WAY CHAIN LINK FENCE, 4' HEIGHT MAY BE USED AS AN ALTERNATIVE TO THE BOX TUBE SAFETY RAIL. SEE STANDARD DRAWING S-F-10B FOR CHAIN LINK FENCE DETAILS. ALL COST OF THE OBJECT MARKERS WILL BE INCLUDES IN ITEM NO. 707-01.01. CHAIN LINK FENCE IS TO BE PAID FOR UNDER ITEM NUMBERS:
  - 707-01.01 CHAIN-LINK FENCE (4-FOOT) PER L.F.
    707-01.02 END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 4') PER EACH
    707-01-04 GATE CHAIN-LINK FENCE-4 FOOT (DESCRIPTION) PER EACH

**EXPANSION SLEEVE DETAIL** (F)

GATE - CHAIN-LINK FENCE-4 FOOT (DESCRIPTION)

PER EACH

SEPARATION BARRIER WITH BICYCLE RAILING HAS BEEN EVALUATED BY THE

(J) COMBINATION BRIDGE SEPARATION BARRIER WITH BICYCLE RAILING HAS BEEN EVALUATED BY THE MIDWEST ROADSIDE SAFETY FACILITY AND MEETS MASH TL-2 STANDARDS. THE EVALUATION HAS BEEN DOCUMENTED IN REPORT NUMBER TRP-03-408-20.

(Replaced Std Dwg S-BPR-1)

STATE OF TENNESSEE

STANDARD
DRAWING
DEPARTMENT OF TRANSPORTATION

REV. 10-16-20: REVISED ANCHOR BOLTS SIZE. UPDATED GENERAL NOTE (D).

REV. 01-28-2022: ADDED SECTION VIEW FOR

POST SET IN SIDEWALK, TYPICAL PLAN VIEW

FOR SIDEWALK EXTENSION AT SAFETY RAIL

BIKE/PED 32" CONCRETE MEDIAN BARRIER

RAIL OR PARAPET DRAWINGS. REMOVED

ALTERNATE PLAN VIEW AND ALTERNATE

AND SAFETY RAIL INSTALLATION ON

INSTALLATION DRAWINGS.
GENERAL NOTE J WAS ADDED.
ADDED NOTE UNDER FIGURE 1.

BIKE AND PEDESTRIAN SAFETY RAIL

01-07-2019

9 MM-BPR-1

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NOT TO SCALE

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Safety