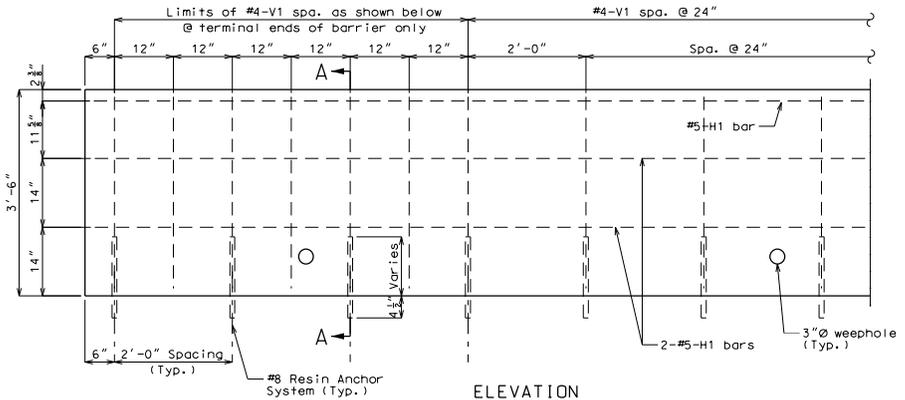
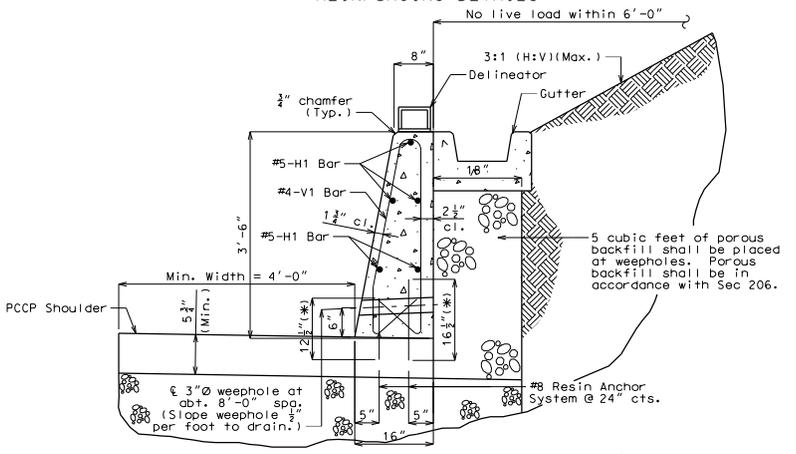


PLAN VIEW  
Note: Gutter not shown for clarity.



ELEVATION REINFORCING DETAILS



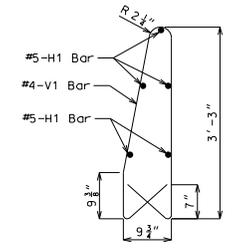
SECTION A-A  
(FOR SLOPING AND NONSLOPING BACKSLOPE)

TYPE D CONCRETE TRAFFIC BARRIER CURB  
(MODIFIED RETAINING WALL)  
(NONMOMENT SLAB)

Note: This drawing is not to scale. Follow dimensions.

General Notes:

- Concrete shall be Class B  $f'c = 4,000$  psi.
- All reinforcement shall be Grade 60 epoxy coated.
- Angle of internal friction,  $\phi \geq 30^\circ$  for backfill material.
- Minimum clearance to reinforcing steel shall be  $1 \frac{1}{2}$ " unless otherwise shown.
- Bar splices shall be a minimum of 24 times the nominal diameter of the bar.
- Any method devised by the contractor and approved by the engineer that will assure the longitudinal reinforcing steel will be positioned  $\pm \frac{1}{2}$  inch as dimensioned will be satisfactory.
- The contractor has the option to slip-form the barrier. In which case, additional reinforcement may be tied to the upper two-thirds for the reinforcing cage to provide bracing.
- This barrier shall not be used to support highway lighting poles.
- This barrier shall not be used for Bridge roadway applications.
- Sawed joints shall be spaced at  $15'-0"$ . See Missouri Standard Plans for sawed joint detail.
- Type D barrier modified retaining wall with nonmoment slab shall be used only at locations shown on plans.
- For delineator details, see Sheet No. 1 of the Missouri Standard Plan 617.10.
- Resin Anchor System shall be drilled in the pavement.
- When curb height exceeds  $42"$  or slope exceeds  $3:1$  (H:V) or live load is within  $6'-0"$ , contact Bridge Division for special design.



Part Section of #4-V1 Bar

DATE PREPARED		6/29/2011	
ROUTE	STATE	* MO	*
DISTRICT	SHEET NO.	BR	*
COUNTY			
* JOB NO.			
* CONTRACT ID.			
PROJECT NO.			
BRIDGE NO.			
DESCRIPTION	DATE	DESCRIPTION	DATE
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)			