MGS GUARDRAIL AT CURB

MAX. DISTANCE FACE OF POST CAN BE IN FRONT OF FACE OF GUARDRAIL

12" 12"

W3X8.5 OR WEX8.5

FOR STEEL POST AND NOTCHED WOOD OR PLASTIC BLOCK

ALTERNATE MGS AT CURB

HOLE PUNCHING DETAIL

(2) TWO HOLES CAN BE PROVIDED ON EACH FLANGE OF POST. ONLY ONE IS REQUIRED FOR FLANGE OF POST THAT HAS A BLOCK ATTACHMENT.

OPTIMAL - 1/2" DIAMETER HOLE
1/2" FROM THE TOP FOR GALVANIZING.
(ONE PERMITTED)

GORE-TROPE

4 x 4" DIA. HOLE
(TYP.)

W3X8.5 OR WEX8.5

W3X8.5 OR WEX8.5

RAIL ELEMENT SPLICE DETAIL

(3) 4 x 4" SLOTTED SLICE BOLT
2 1/2" X 1 1/2" OR 3" SLICE BOLT SLOTTED
(1) 1" TOLERANCE +/- 1/8", -1/16"

(1) 1/2" DIAMETER HOLE

ELEVATION OF TRAFFIC

DIRECTION OF TRAFFIC

DELINATEORS ON GUARDRAIL

GENERAL NOTES:

FOR GUARDRAIL ELEVATION DETAILS SEE
STC PLAN 903.03.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-622-MODOT (626-6686)
MIDWEST GUARDRAIL SYSTEM (MGS)
REDUCED POST SPACINGS

GENERAL NOTES:

- MGS CANNOT BE USED WHERE:
  - POST SPACING IS LESS THAN 6’-0”
  - WITHIN BARRIER ENDS TERMINALS
  - WITHIN VERTICAL BARRIER TRANSITIONS (606.60)
  - WITHIN BRIDGE APPROACH TRANSITIONS (606.70)

111. 25 FEET OF MGS 3’-14” POST SPACING GUARDRAIL IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF 1’-6-1/2” POST SPACING MGS GUARDRAIL.

121. USE AS MANY SEGMENTS AS NECESSARY TO SHIELD THE AREA OF CONCERN.

131. REDUCED POST SPACING SHALL USE 6’-0” POSTS.
MAX. GAP DISTANCE OF 8’-0” POSTS WILL ONLY BE ALLOWED IN ACCORDANCE WITH SPECIAL INSTALLATIONS AS SHOWN ON SHEET 3 OF 5.
SETTING POST IN SOLID ROCK

SECTION A-A
ROCK ENCOUNTERED UP TO 6" BELOW SURFACE

SECTION B-B
ROCK ENCOUNTERED 6" TO 18" BELOW SURFACE

SECTION C-C
ROCK ENCOUNTERED MORE THAN 18" BELOW SURFACE

SECTION D-D
SETTING POST THROUGH PAVEMENT
(Concrete or Asphalt > 2" Thick)

GENERAL NOTES:

HOLES IN SOLID ROCK SHALL PROVIDE A DIAMETER OF NOT LESS THAN 4 INCHES GREAER THAN THE MAXIMUM TRANSVERSE DIMENSION OF THE POST SECTION.

POST MAY BE SHORTER WHERE PLACED IN 2 FEET OF SOLID ROCK. STEEL POSTS MAY BE FLANGE OR SAE CUT. REPAIR OF CUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE STANDARD SPECIFICATIONS.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65103
1-888-650-MODOT (663-6683)

MIDWEST GUARDRAIL SYSTEM (MGS)
SPECIAL INSTALLATIONS

SETTING POST THROUGH ASPHALT ≤ 2" THICK
SECTION A-A
8' STEEL POST

ALTERNATE SECTION A-A
MAXIMUM LATERAL PLACEMENT OF
8' STEEL POSTS ADJACENT TO SLOPES

GENERAL NOTES:
SEE STC. PLAN 606.81 FOR SITE SPACING REQUIREMENTS FOR CRASHWORTHY END TERMINALS.

8' POSTS SHALL NOT BE USED WHEN LESS THAN 2 FEET OF EMBANKMENT IS PRESENT BETWEEN THE FACE OF THE GUARDRAIL POST AND THE SLOPE BREAK POINT. THE SUBSTITUTION OF 6' POSTS, IN LIEU OF 8' GUARDRAILS, TO CONSTRUCT LESS THAN THE DESIGNED TYPICAL SECTION, SHALL NOT BE ALLOWED.
MGS BLOCK AND HEIGHT TRANSITION FROM TYPE A GUARDRAIL TO MGS GUARDRAIL

ALTERNATE PLAN VIEW - ALIGNMENT TAPER

SEE NOTE 11

NOTES:

11 WHERE FOOT OFFSET IS CONSTRUCTION, AND WHEN THE EXISTING SHOULDER IS WIDER THAN 6 FEET, THE EXISTING SHOULDER MAY BE REDUCED UP TO 4 INCHES TO ACCOMMODATE THE 10 INCH BLOCKS OF THE MGS GUARDRAIL.  WHERE SITE CONSTRAINTS PRECLUDE DISPLACEMENT OF SHOULDER, THE SUBSTITUTE OF A 4 FOOT POSTS FOR REQUIRED GRADING SHALL NOT BE ALLOWED.

12 MGS TRANSITION FROM TYPE A GUARDRAIL SHALL BE COMPLETE PRIOR TO THE 50 MGS EYE TERMINAL LIMITS.