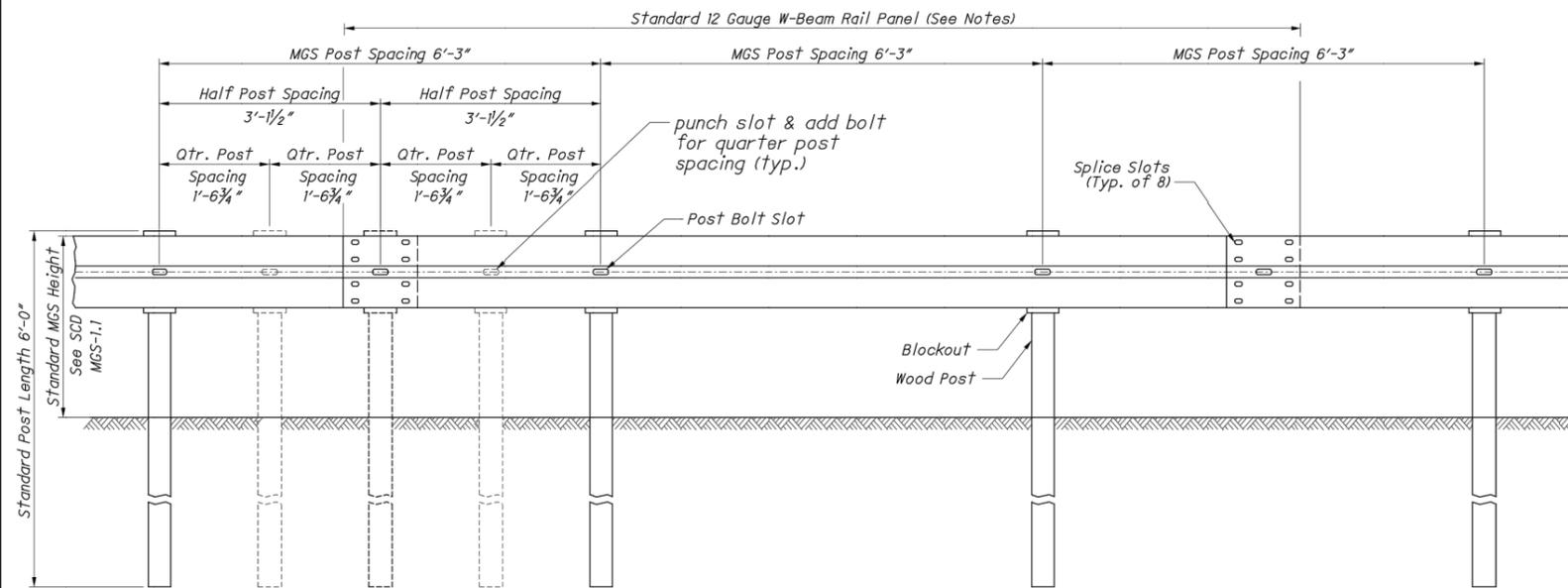


PLAN VIEW
(Steel Posts shown)



ELEVATION
(Wood Posts shown)

NOTES

RAIL: Use W-Beam rail meeting AASHTO M 180-12 Type II Class A, as specified in CMS 606. Either 13'-6 1/2" long (12'-6" between splices) or 26'-1 1/2" long (25'-0" between splices) rail sections may be used.

POSTS: Posts may be constructed of wood or steel. Use the same type of post throughout the length of the project unless otherwise specified in the plans or permitted by the Engineer.

Wood post shall be fabricated and pressure-treated for approved species as per CMS 710.12. Bore bolt holes and, if required, trim the tops of posts after the posts are set.

See SCD MGS-1.1 for Standard Steel Posts.

All rectangular posts are 6'-0" long (+3", -0 tolerance) unless otherwise in the Contract Document. Posts may be drilled holes or may be driven to grade. Embedment depth shall be 37" when using the round wooden post option.

BLOCKOUTS: Blockout dimensions are dependent on post used. Wood Blockouts are to be pressure treated as specified in CMS 710.14. Bore bolt holes. Approved Alternate blockouts may be used in lieu of the wood blockouts shown. The approved list is maintained by the Office of Roadway Engineering.

When terminating double-sided barrier guardrail with an impact attenuator, use reduced 8" deep blockouts on the last # posts on the barrier design to accommodate the narrower widths of the attenuators.

WASHERS: Install appropriate sized standard galvanized steel washers on the nut side of bolts installed on wood posts. Beam washers are not to be used.

DELINEATION: For Barrier Reflectors see CMS 626.

MISCELLANEOUS: For other guardrail details, see SCD MGS-1.1.

PAYMENT: Guardrail is paid in feet per
 ITEM 606 - Guardrail, Type MGS.
 Half or Quarter Post Spacing Guardrail per
 ITEM 606 - Guardrail, Type MGS Half Post Spacing
 ITEM 606 - Guardrail, Type MGS Quarter Post Spacing

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR	REVISION DATE
David L. Holstein	1-19-2018
STDS. ENGINEER	
D. Fisher	
OFFICE OF ROADWAY ENGINEERING	
MID WEST GUARDRAIL SYSTEM, STANDARD TYPE MGS	
Regular, Half. & Quarter Post Spacing	
SCD NUMBER	
MGS-2.1	
THIS DRAWING REPLACES MGS-2.1 DATED 7-19-2013	
STANDARD ROADWAY CONSTRUCTION DRAWING	
1 / 2	

CITY OF ALLIANCE
ENGINEERING DEPARTMENT
 504 E. MAIN ST.
 ALLIANCE, OH 44601
 PHONE: (330) 823-5122 FAX: (330) 829-2236

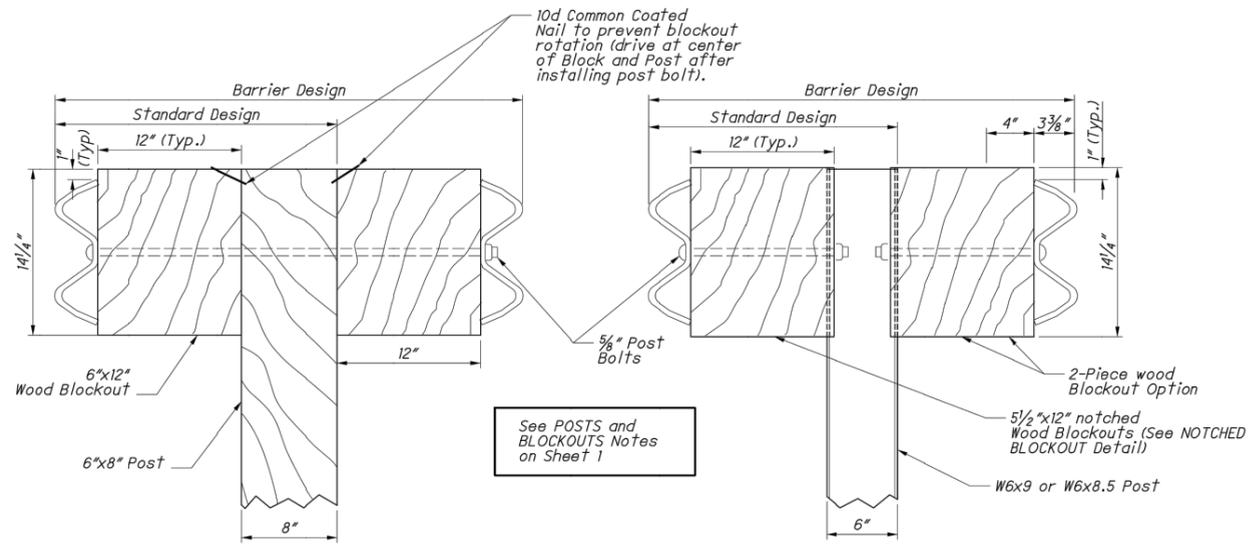
STANDARD TYPE MGS
 NOT TO SCALE
 ENGSERV1 / E:/ DATA / ENGINEERING DOCUMENTS / STANDARD DRAWINGS / GR-2.DWG

APPROVED BY:

 VINCENT MUESER, P.E., S.I.T.
 ALLIANCE CITY ENGINEER

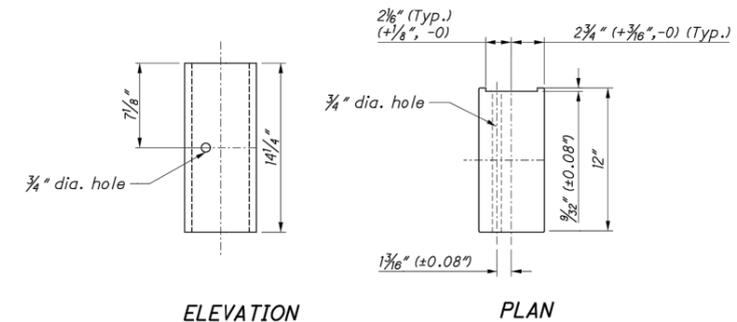
ALLIANCE GR-2
(1 OF 2)

Revisions / Drawn By
02-19-10 / CAF
01-31-22 / ANP

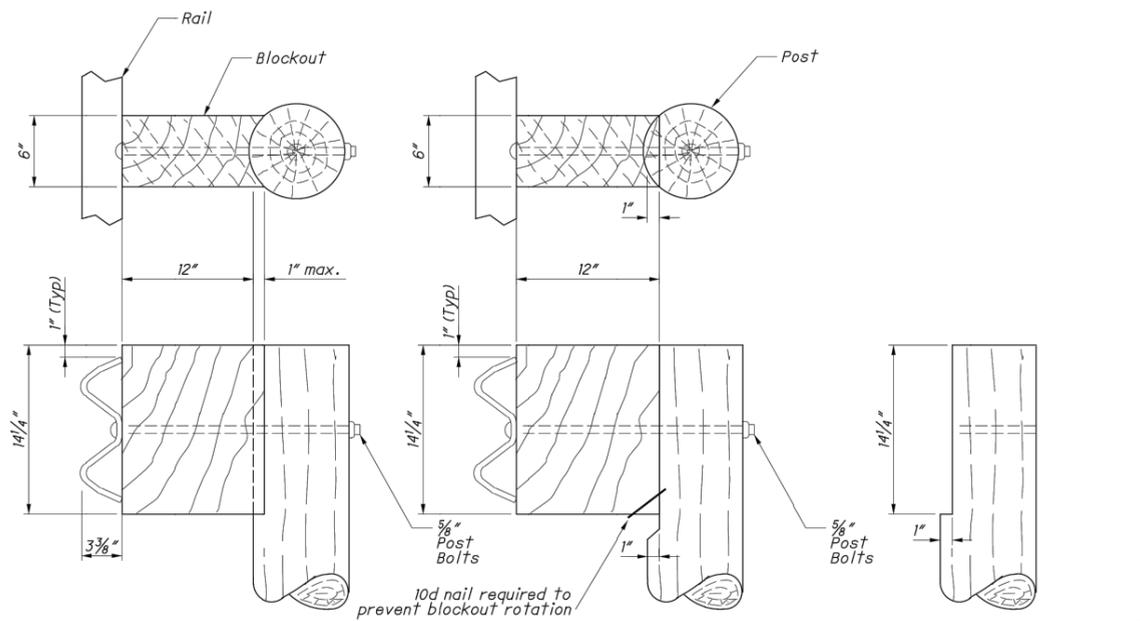


SQUARE WOOD POST

STEEL POST
See POSTS Note, Sheet 1



NOTCHED BLOCKOUTS FOR STEEL POSTS
See BLOCKOUTS Note on Sheet 1

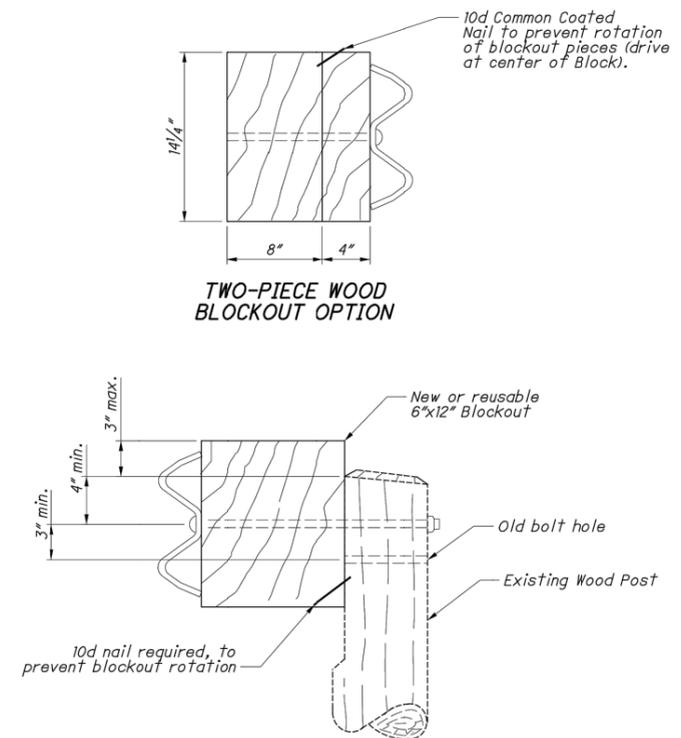


Method 1
Routed Blockout

Method 2
Notched Post

Alternate methods of placing the Blockouts on round Posts may be submitted for consideration and approved by the Engineer.

ROUND WOOD POSTS
Single Sided runs only (Standard Design)



TWO-PIECE WOOD BLOCKOUT OPTION

RAISING EXISTING GUARDRAIL HEIGHT

THIS DRAWING REPLACES MGS-2.1 DATED 7-19-2013
SCD NUMBER

STDS. ENGINEER	STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR	REVISION DATE
D. Fisher	David L. Holstein	1-19-2018
OFFICE OF ROADWAY ENGINEERING	MIDWEST GUARDRAIL SYSTEM, STANDARD TYPE MGS Regular, Half, & Quarter Post Spacing	
MGS-2.1		
2		2



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STANDARD TYPE MGS

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APPROVED BY:

V. A. Mueser PE, S.T.
VINCENT MUESER, P.E., S.I.T.
ALLIANCE CITY ENGINEER

ALLIANCE GR-2
(2 OF 2)

Revisions / Drawn By

02-19-10 / CAF
01-31-22 / ANP