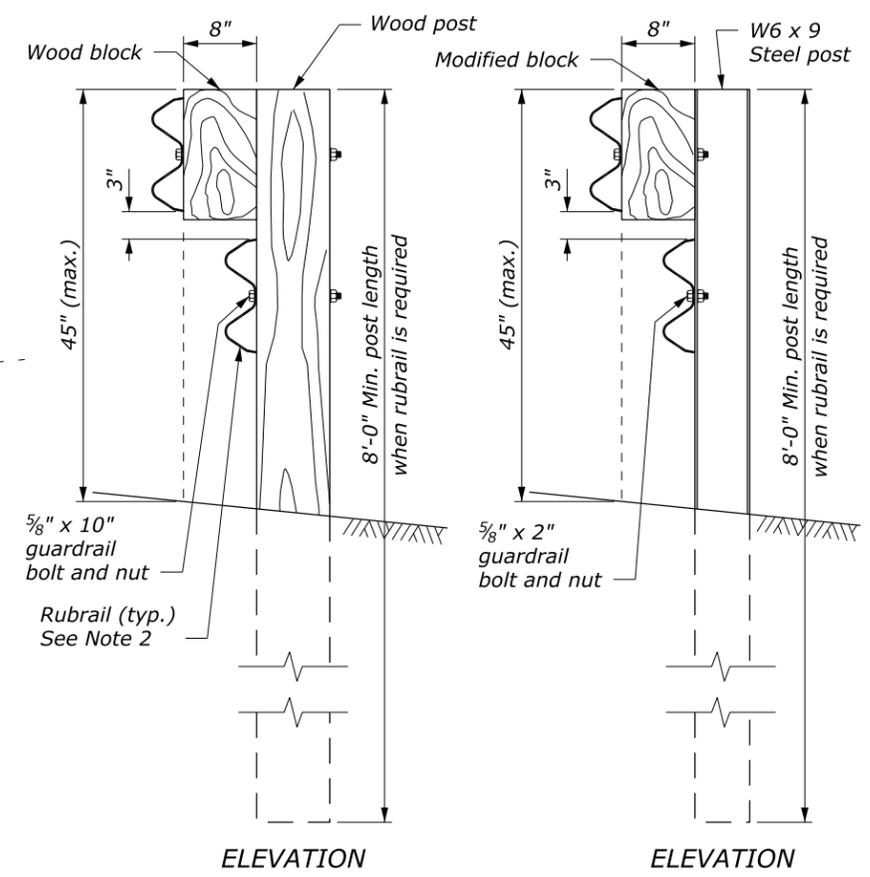
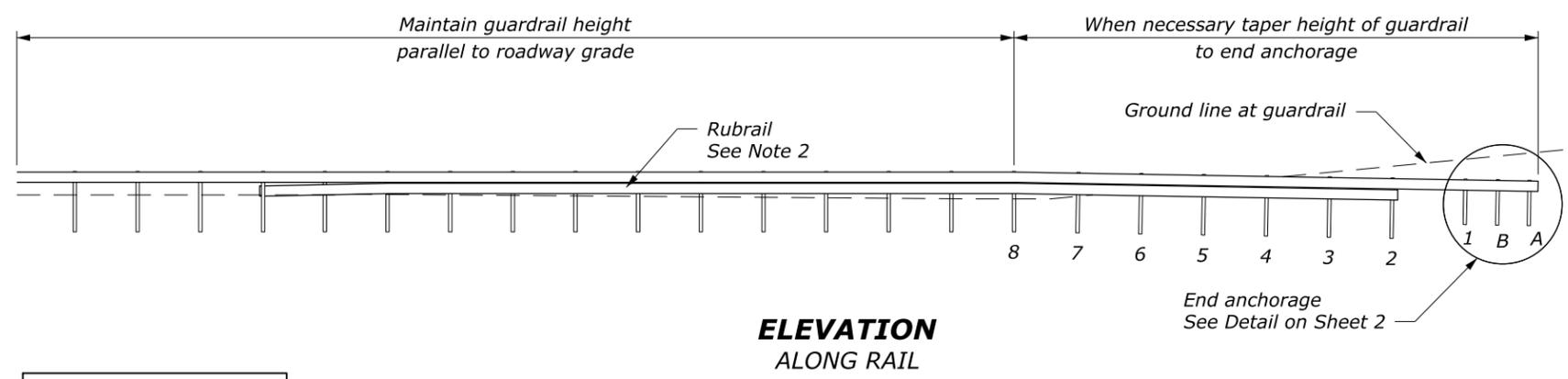


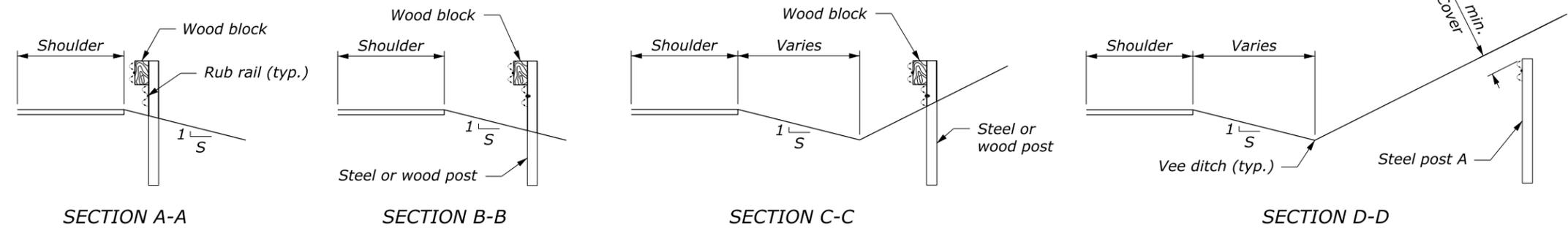
NOTE:

1. See Standards 617-10 and 617-11 for other details.
2. Hold the height of the W-beam rail constant in relation to the roadway shoulder elevation until the barrier crosses the ditch bottom. Add the rubrail when the distance from the ground to the bottom of the W-beam exceeds 18".



GUARDRAIL FLARE	
DESIGN SPEED MPH	FLARE
70	15
60	14
55	12
50	11
45	10
< 35	8

POST OFFSETS FROM VEE DITCH BOTTOM	
POST	DISTANCE
A	8'
#2	5'
#4	3'
#8	0



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD
**G4 W-BEAM GUARDRAIL
BACK SLOPE ANCHOR TERMINAL
TYPE G4-BAT**
Sheet 1 of 2

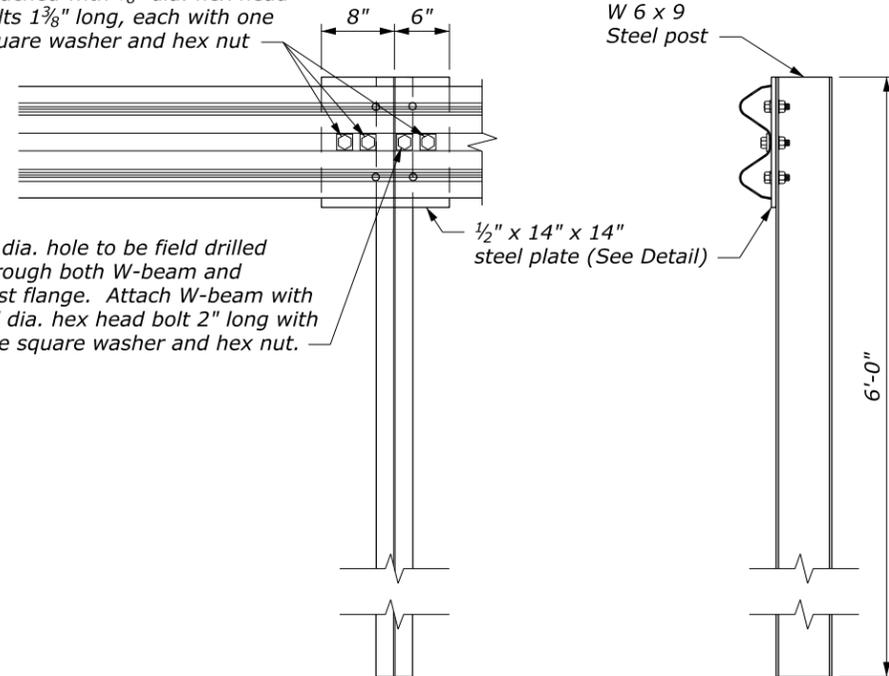
STANDARD APPROVED FOR USE 1/1994
REVISED: 4/1994 6/2005
DRAFT: 5/2014

STANDARD
617-17

7 March 2017 10:50 AM c:\myfiles\pw_production\ldms67487\Std617-17.dgn [USC]

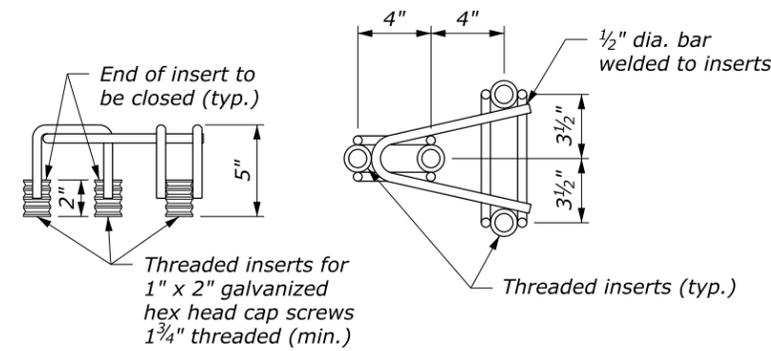
NO SCALE

3 - 1" dia. holes to be field drilled in W-beam element and attached with 7/8" dia. hex head bolts 1 3/8" long, each with one square washer and hex nut



1" dia. hole to be field drilled through both W-beam and post flange. Attach W-beam with 7/8" dia. hex head bolt 2" long with one square washer and hex nut.

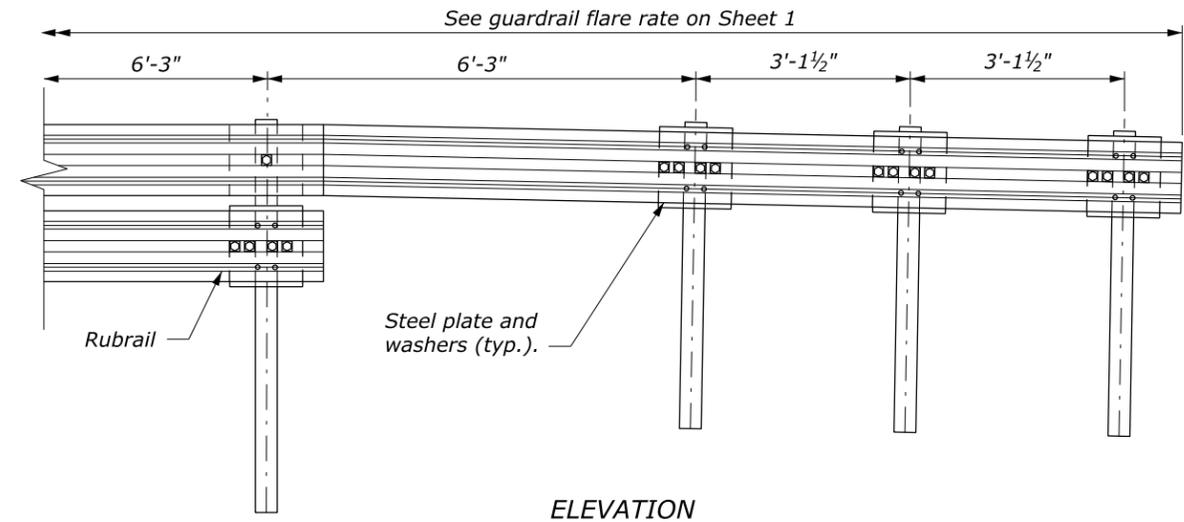
SPECIAL RAIL TO POST CONNECTION AT POSTS A, B, AND 1



FRAMEWORK FOR THREADED INSERTS

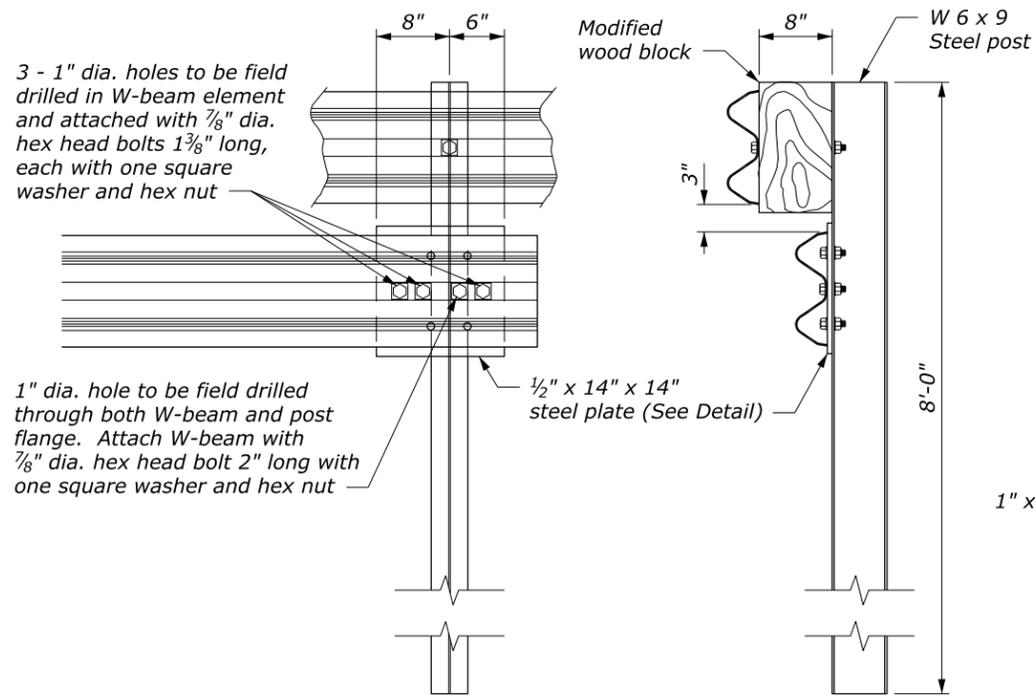
NOTE:

1. See Standard 617-10 and 617-11 for block detail and attachment.
2. See Sheet 1 of 2 for terminal layout.
3. For posts #3 and higher, match post material of adjacent guardrail run, unless otherwise noted.
4. Use zinc rich paint to coat field drilled holes.



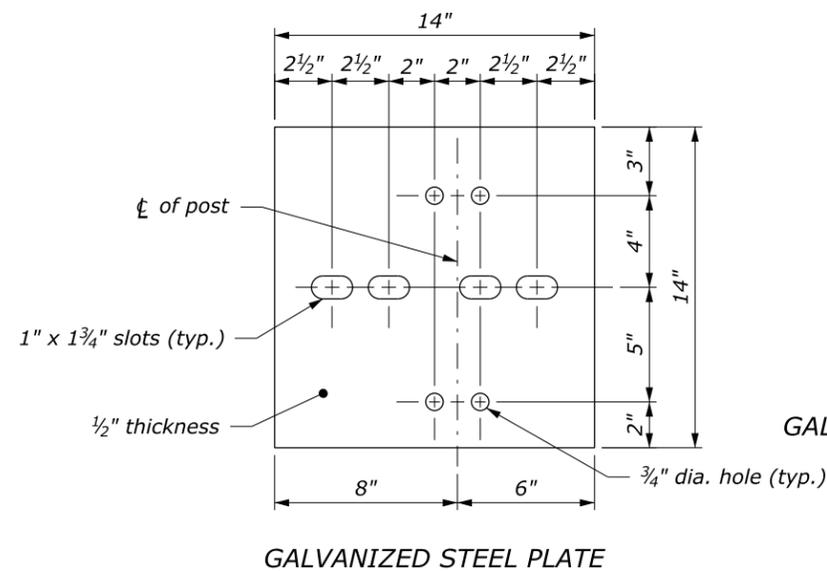
ELEVATION

3 - 1" dia. holes to be field drilled in W-beam element and attached with 7/8" dia. hex head bolts 1 3/8" long, each with one square washer and hex nut



1" dia. hole to be field drilled through both W-beam and post flange. Attach W-beam with 7/8" dia. hex head bolt 2" long with one square washer and hex nut

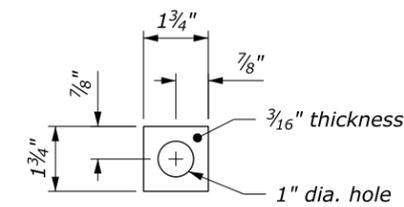
SPECIAL RUBRAIL TO POST CONNECTION AT POST 2



GALVANIZED STEEL PLATE

STEEL PLATE AND WASHER

END ANCHORAGE DETAIL POSTS A, B, 1, 2



GALVANIZED SQUARE WASHER

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD G4 W-BEAM GUARDRAIL BACK SLOPE ANCHOR TERMINAL TYPE G4-BAT Sheet 2 of 2	
STANDARD APPROVED FOR USE 1/1994	STANDARD
REVISED: 4/1994 6/2005 DRAFT: 5/2014	617-17

NO SCALE