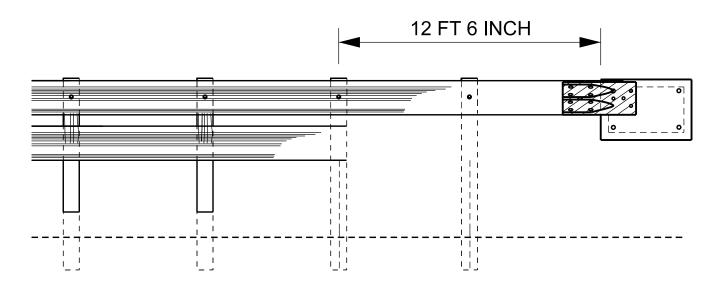


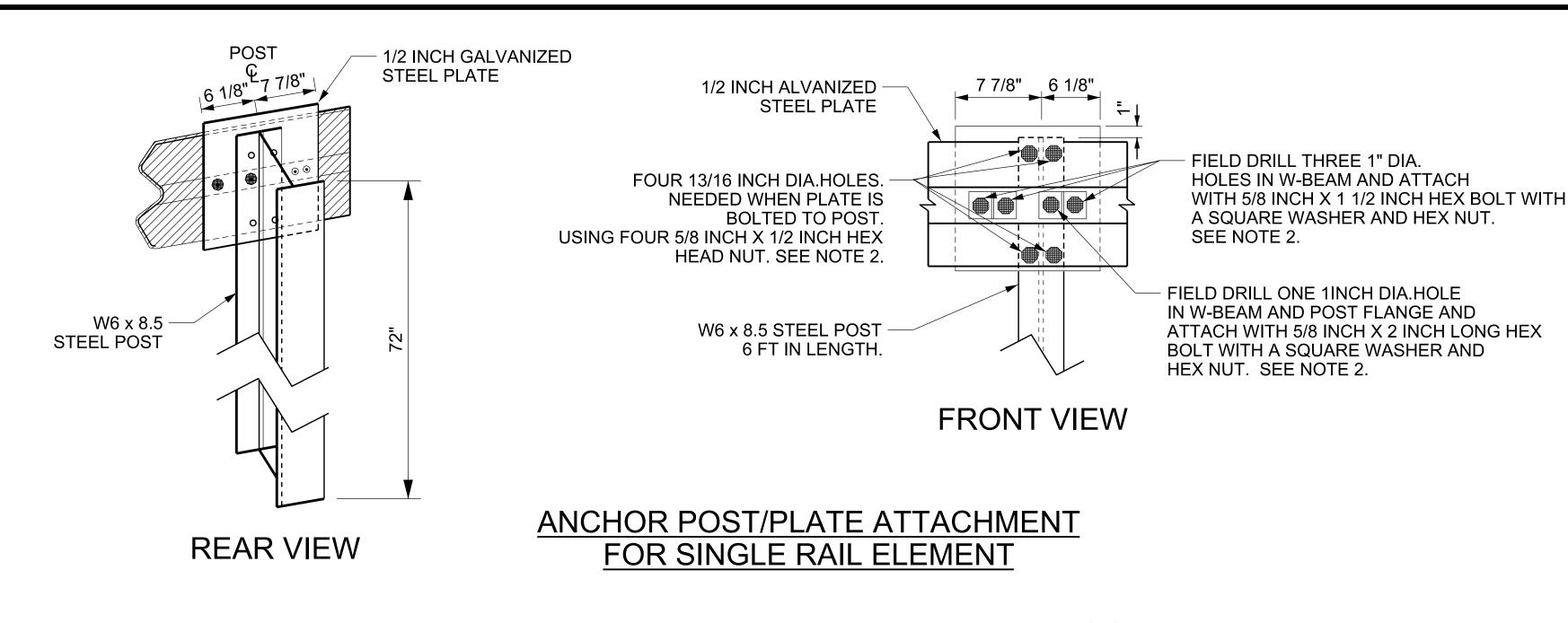
#### NOTES:

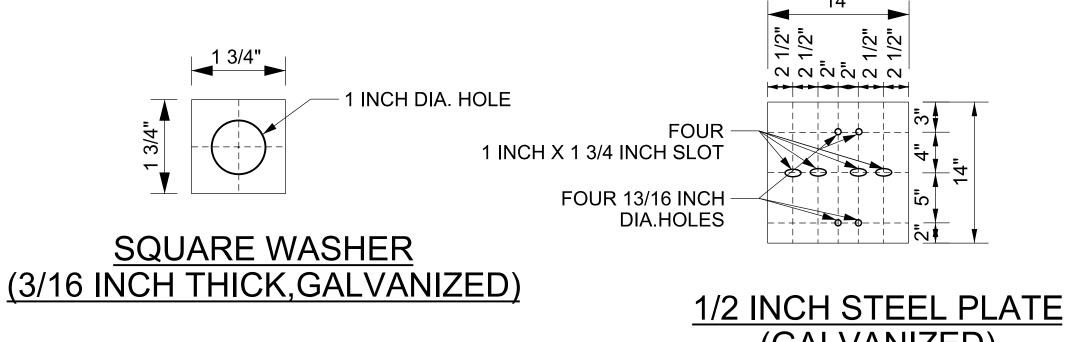
- 1. USE CLASS B CONCRETE.
- 2. USE EPOXY COATED REINFORCING STEEL, PER SECTION 602 OF THE SPECIFICATIONS.
- 3. USE GALVANIZED THREADED ROD.
- 4. THREADED RODS CAN BE CAST INTO CONCRETE BLOCK OR HOLES CAN BE DRILLED INTO BLOCK AND RODS ANCHORED WITH EPOXY.
- 5. DRILL HOLES A MINIMUM 9 INCH DEEP. CLEAN DRILLED HOLES PRIOR TO INSERTING THREADED ROD.



RUBRAIL ELEMENT

**OPTION I CONCRETE BLOCK** 

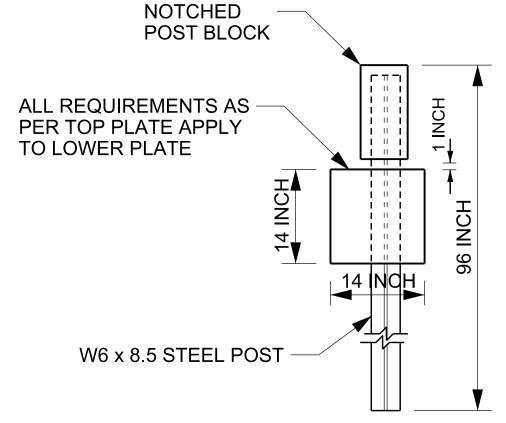




# (GALVANIZED)

- 1. USE 1/2 INCH STEEL PLATE MEETING REQUIREMENTS OF ASTM A 36.
- 2. GALVANIZING REQUIRED FOR PLATE AND HARDWARE.
- 3. USE ZINC RICH PAINT TO COAT FIELD DRILLED HOLES.

NOTES:

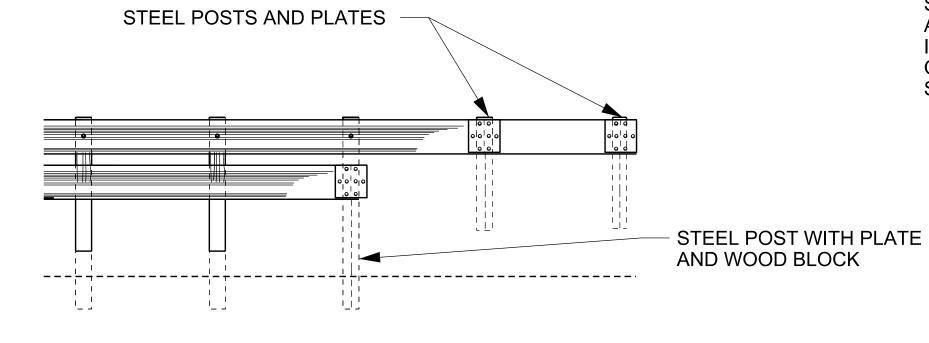


# **ANCHOR POST/PLATE ATTACHMENT** FOR RUB RAIL ELEMENT

#### **GENERAL NOTES:**

TYPE A (SOFT SHALE OR SOIL) CUT SLOPE TERMINAL GUARDRAIL SHALL BE THAT GUARDRAIL WHICH IS TO EXTEND A MINIMUM OF TWO 6'-3" SPANS INTO THE CUT SLOPE, FROM THE FIRST POST BEYOND THE TOE OF THE CUT SLOPE AND IS TO TERMINATE A MINIMUM OF 1'-0" BELOW THE GROUND ELEVATION OF THE BACK SLOPE, EXCEPT IN AREAS OF HEAVY ROCK OUTCROPPING WHERE THE MINIMUM DEPTH MAY BE 6 INCHES.

A TRENCH NO GREATER THAN 18" IN WIDTH SHALL BE EXCAVATED INTO THE CUT SLOPE TO ACCOMMODATE THE TYPE A TERMINAL INSTALLATION. THE CONTRACTOR SHALL ARRANGE HIS WORK SEQUENCE SUCH THAT EACH TYPE A CUT SLOPE TERMINAL INSTALLATION BE EXCAVATED, POSTS DRIVEN, RAIL ELEMENTS AND GUARDRAIL COMPONENTS ASSEMBLED, TRENCH BACKFILLED, AND DISTURBED SLOPE SHAPED SEEDED AND MULCHED ALL IN A CONTINUOUS OPERATION.



RUBRAIL ELEMENT **OPTION II** STEEL POSTS AND PLATES WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DETAIL

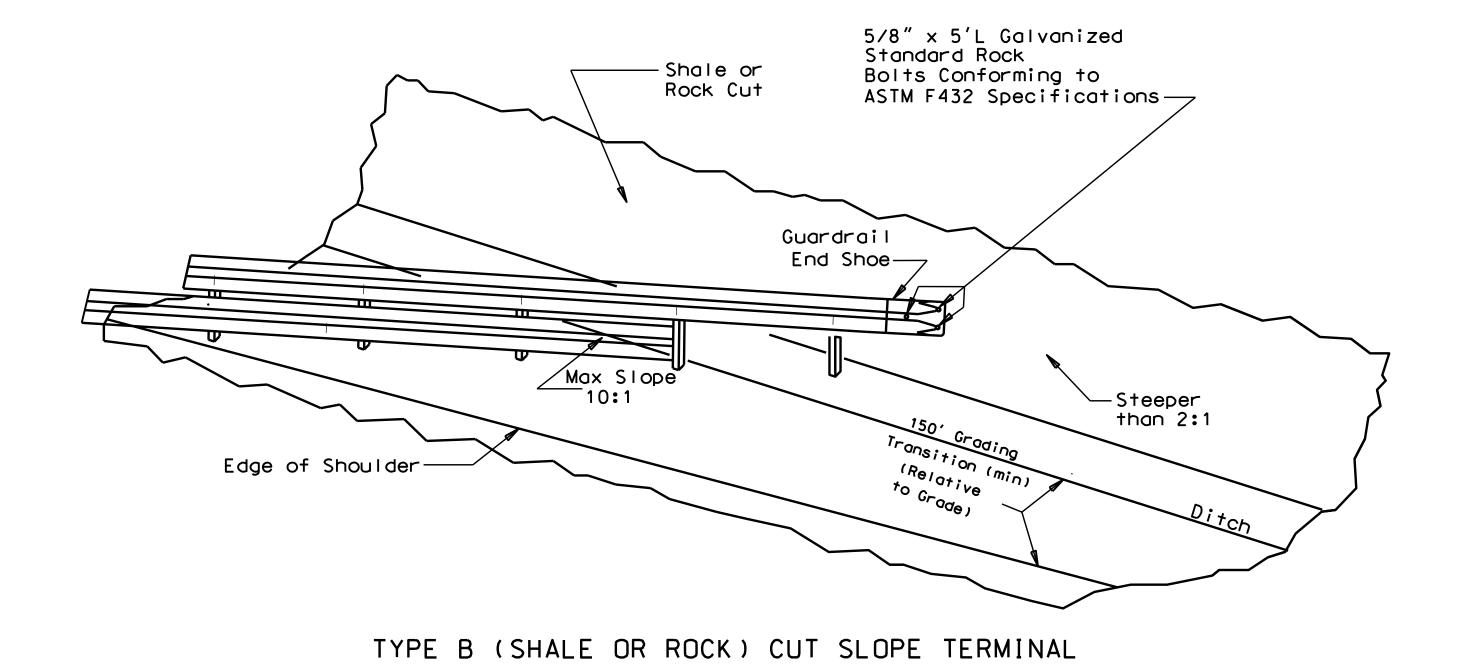
# REVISED STANDARD DETAIL

REVISION DATE

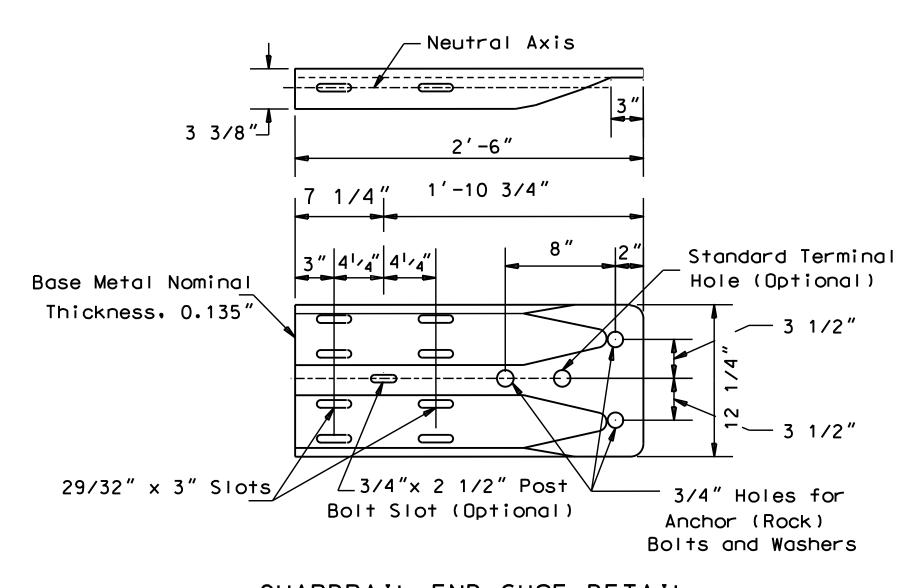
**CUT SLOPE TERMINAL** TYPE A INSTALLATION SOFT SHALE OR SOIL

STANDARD SHEET GR4A

Type B (Shale or Rock) Cut Slope Terminal installation shall consist of anchoring the guardrail against the face of the cut slope utilizing guardrail end shoes and rock bolts, as detailed herein.



INSTALLATION



GUARDRAIL END SHOE DETAIL

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD DETAIL

### REVISED STANDARD DETAIL

PREPARED 4/22/15
REVISION DATE

**CUT SLOPE TERMINAL** TYPE B INSTALLATION SHALE OR ROCK

STANDARD SHEET GR4B