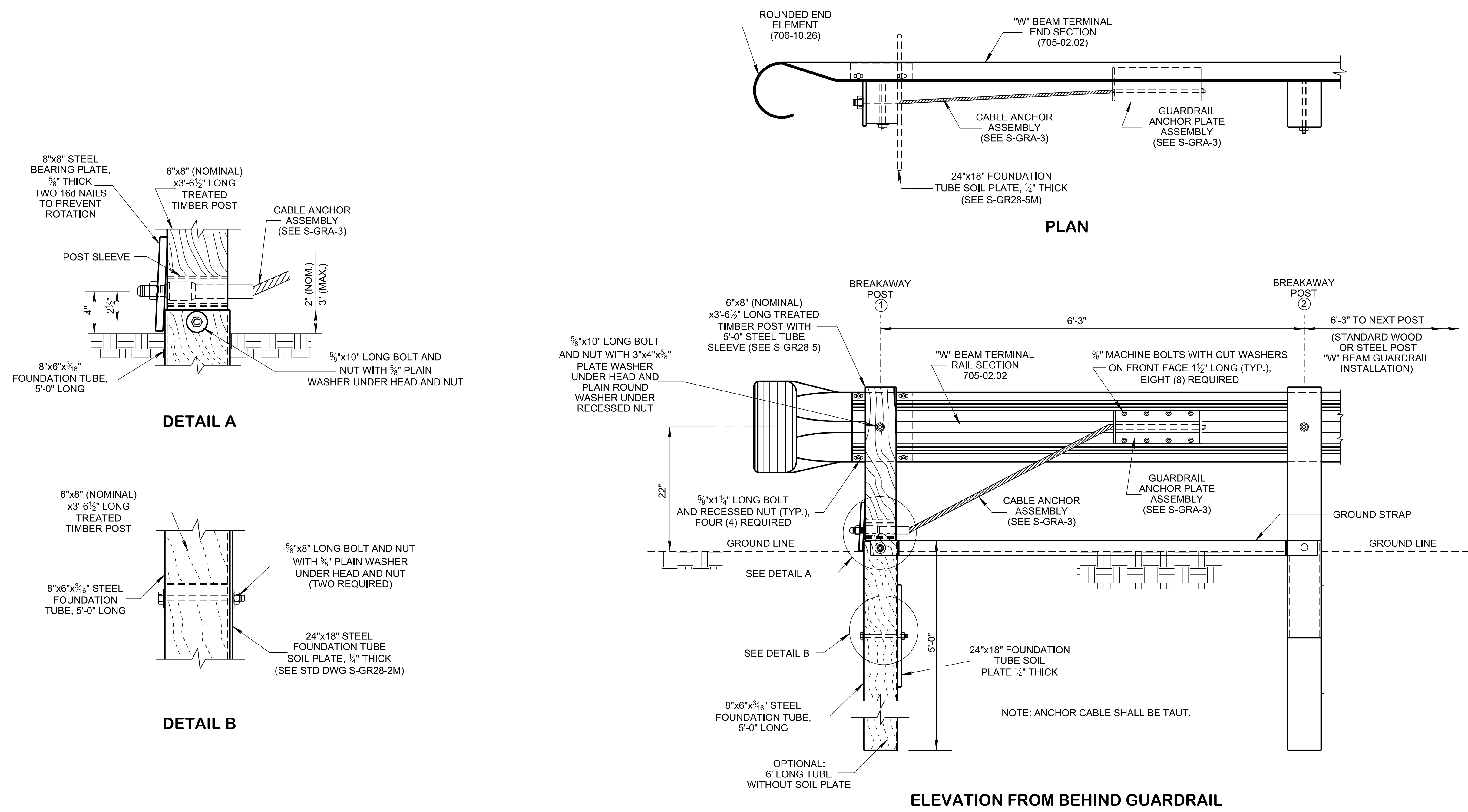


**THIS DRAWING IS TO BE USED FOR RESURFACING, MAINTENANCE, AND BRIDGE REPAIR PROJECTS ONLY, THIS DRAWING IS NOT INTENDED TO BE USED FOR NEW CONSTRUCTION OR RECONSTRUCTION PROJECTS.**



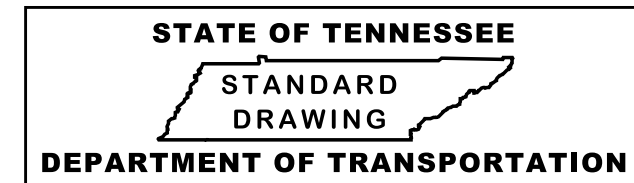
**BREAKAWAY POST NOTES**

- (A) THE BREAKAWAY POSTS ① AND ② WILL HAVE A 6" x 8" (NOMINAL) CROSS-SECTION AREA AND WILL HAVE A 2 3/8" DIAMETER HOLE CENTERED 2' - 0" BELOW THE TOP OF THE POST ON THE 8" SIDE AS SHOWN. ALL POSTS SHALL BE ERECTED SO THAT THE GUARDRAIL WILL HAVE A TOP-OF-RAIL HEIGHT OF 2' - 3".
- (B) ALL HOLES IN WOOD POSTS ARE TO BE DRILLED BEFORE PRESERVATIVE TREATMENT.
- (C) ALL CUTTING, DRILLING, AND WELDING OF STEEL COMPONENTS SHALL BE DONE BEFORE GALVANIZING.
- (D) THE FINISHED CABLE ASSEMBLY WILL NOT BE ACCEPTABLE UNLESS IT IS IN TENSION WITH NO SAG.
- (E) OTHER ANCHOR CABLE ASSEMBLIES PROVIDING A MINIMUM BREAKING STRENGTH OF 40,000 POUNDS WILL BE ACCEPTABLE.
- (F) SEE STANDARD DRAWING NO. S-GR28-2M FOR ADDITIONAL DETAILS AND GENERAL NOTES.
- (G) THIS SYSTEM HAS BEEN EVALUATED UNDER NCHRP 350 TL-3.

**GENERAL NOTES**

- (A) THIS ANCHORAGE MAY ONLY BE USED ON THE TRAILING END OF A BARRIER WHICH IS NOT EXPOSED TO VEHICULAR IMPACT.
- (B) GUARDRAIL SHALL MEET THE REQUIREMENTS OF AASHTO M 180, CLASS A, TYPE 1 UNLESS OTHERWISE DESIGNATED.
- (C) ALL WOOD POSTS AND BLOCKOUTS SHALL BE TREATED TIMBER IN ACCORDANCE WITH TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- (D) STEEL TUBES AND ATTACHED SOIL PLATE MAY BE INSTALLED BY:
  1. EXCAVATING, BACKFILLING AND COMPACTING TO PROVIDE FULL PASSIVE SOIL RESISTANCE TO ALL SURFACES OF THE TUBE AND SOIL PLATE.
  2. DRIVING STEEL TUBE AND SOIL PLATE AS A UNIT WITH A DUMMY TIMBER POST TO PREVENT DAMAGE TO BREAKAWAY POST.
- (E) UNIT PRICE FOR ITEM NO. 705-04.03 GUARDRAIL TERMINAL (TYPE 13) PER EACH SHALL INCLUDE COSTS OF FURNISHING AND INSTALLING ALL COMPONENTS AS DETAILED, COMPLETE IN-PLACE.
- (F) THIS SYSTEM HAS BEEN EVALUATED UNDER NCHRP 350 TL-3.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED



**GUARDRAIL TERMINAL ANCHOR TYPE 13**

11/22/2019 2:21:07 PM P:\StandDraw\DESIGN STANDARDS\Standards Drawings\Standard Roadway Drawings - CURRENT\In Progress\10-106.00 Safety Design and Guardrails IP\106.10 Guardrail Maintenance IP\SGR28-4M-2019