



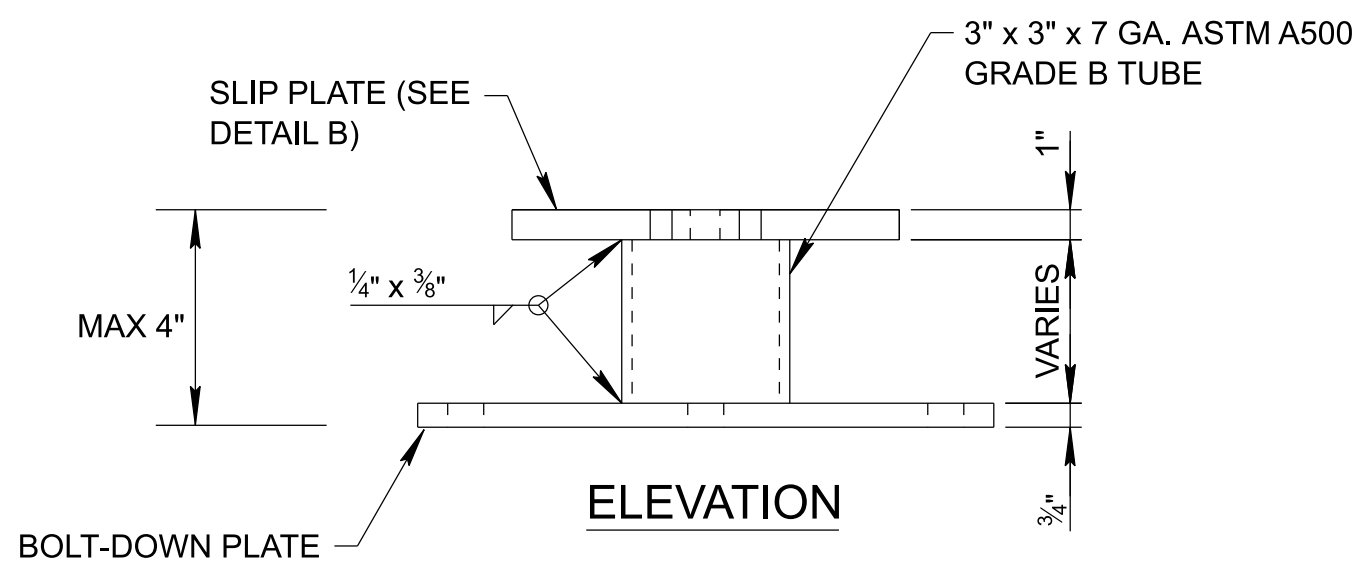
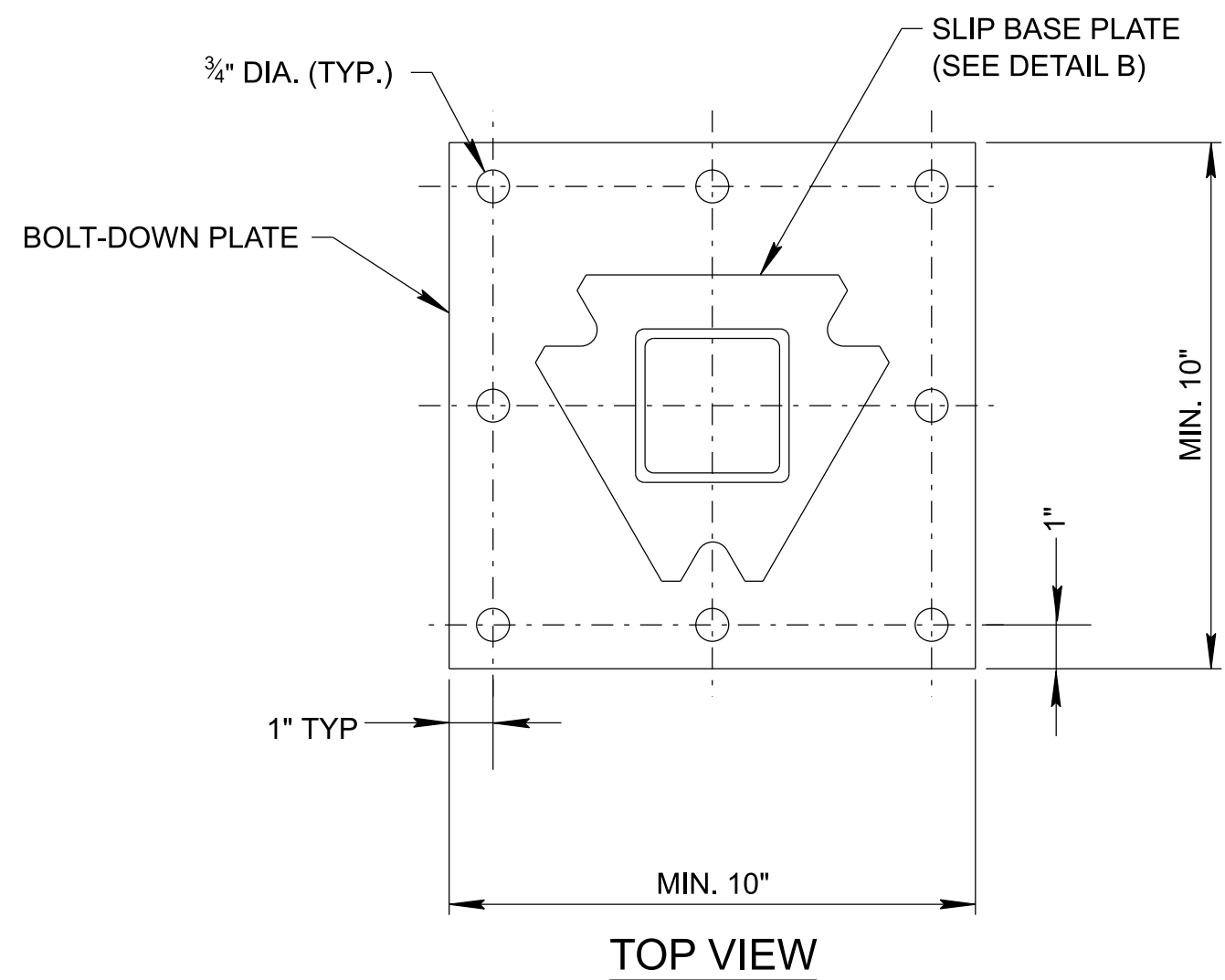
DETAIL A
TRIANGULAR SLIP BASE



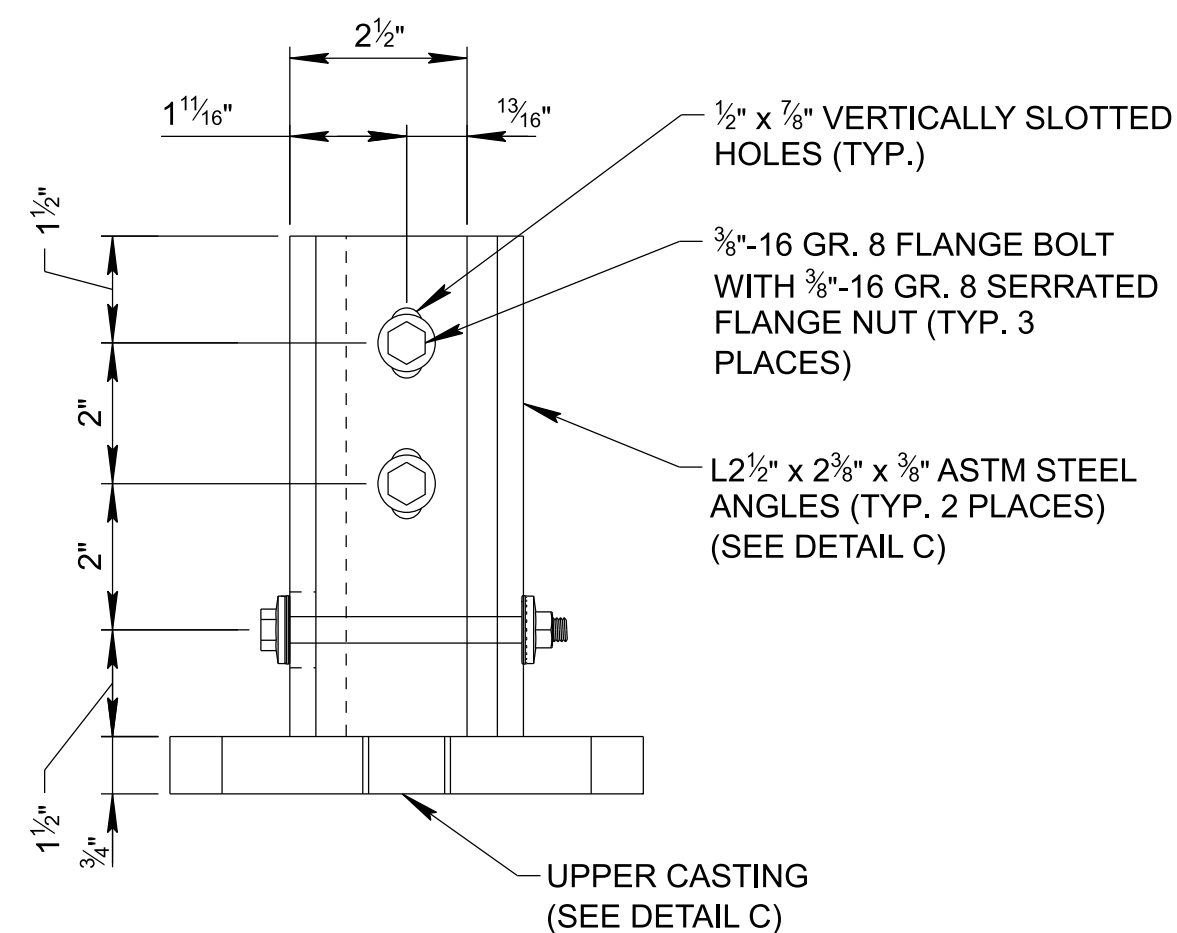
SLIP BASE LOWER HALF



ANCHOR DETAIL



BOLT-DOWN ANCHOR INTO EXISTING CONCRETE



DETAIL F

- ❑ REV. 7-19-13: ADDED NOTE (N). MINOR EDITS TO DRAWINGS. MODIFIED NOTE (M).
 - ❑ REV. 8-25-14: REVISED NOTE (H).
 - ❑ REV. 7-2-15: REVISED GENERAL NOTES AND FOUNDATION DETAILS.
 - ❑ REV. 7-11-17: UPDATED TOP VIEW DETAIL FOR SLIP BASE SIGN SUPPORT FOR P-POST (SQUARE TUBE).
- REV. 7-30-2025: CHANGED TEXT STYLE AND REPRINTED

GENERAL NOTES

- (A) MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SIGN SUPPORTS MAY BE USED ON ONLY HIGH SPEED HIGHWAYS AND ALL INTERSECTIONS LOCATED WITHIN THE CLEAR ZONE OF A ROADWAY AND NOT PROTECTED BY AN APPROVED BARRIER SYSTEM.
- (B) NO MORE THAN THREE MULTI-DIRECTIONAL SLIP BASES MAY BE INSTALLED WITHIN A SEVEN FOOT SPAN.
- (C) MULTI-DIRECTIONAL BREAKAWAY SYSTEMS (T-S-23A, T-S-23B, and T-S-23C) SHALL BE USED AT LOCATIONS WHERE THE POSSIBILITY EXISTS OF THE SIGN BEING HIT FROM ANY DIRECTION. ALL SQUARE TUBE SIGNS LOCATED IN ISLANDS, AT INTERSECTIONS, OR LOCATED ALONG THE OUTSIDE OF A HORIZONTAL CURVE SHALL BE EQUIPPED WITH A BREAKAWAY SYSTEM, REGARDLESS OF THE NUMBER OF POSTS OR SPACING.
- (D) ALL SIGN PANELS PLACED PARALLEL TO THE DIRECTION OF TRAFFIC FLOW (SUCH AS ONE-WAY SIGNS ON A DIVIDED HIGHWAY) SHALL BE MOUNTED ON A MULTI-DIRECTIONAL BREAKAWAY SYSTEM.
- (E) BASE POST STUB HEIGHT SHALL BE 4 INCHES OR LESS ABOVE FINISHED GROUND SURFACE.
- (F) ALL FINISHED COMPONENTS OF THE SLIP BASE SYSTEM SHALL BE PERMANENTLY MARKED TO INDICATE THE MANUFACTURER, METHOD, DESIGN, AND LOCATION OF MARKING SHALL BE AS APPROVED BY THE ENGINEER.
- (G) INTERMIXING OF U-CHANNEL POSTS WITH PERFORATED SQUARE TUBE POSTS AT ANY SIGN INSTALLATION LOCATION WILL NOT BE ALLOWED.
- (H) ONLY SYSTEMS LISTED ON THE TDOT QPL SHALL BE USED.
- (I) ALL STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SPECIFICATION ASTM-A123.
- (J) CLASS "A" CONCRETE CONSTRUCTION AND MATERIALS SHALL MEET THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, SECTION 604."
- (K) ANCHORS MAY BE EXPANSION TYPE AS SHOWN OR ADHESIVE TYPE LISTED ON THE QPL MEETING THE STRENGTH REQUIREMENTS. EXPANSION ANCHORS SHALL CONSIST OF 5/8 INCH DIAMETER STUD BOLT WITH UNC-SERIES BOLT THREADS ON THE UPPER END WITH HEAVY HEX NUT PER ASTM A563, AND HARDENED WASHER PER ASTM F436. THE STUD BOLT SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI AND ULTIMATE TENSILE STRENGTH OF 75 KSI.
- (L) SEE T-S-19 FOR P-POST DETAILS.
- (M) TO BE PAID FOR UNDER ITEM NO. 713-11.21 P POST SLIP BASE PER EACH (INCLUDES COST OF SLIP BASE AND STUB).

☒ MINOR REVISION -- FHWA
APPROVAL NOT REQUIRED.

STATE OF TENNESSEE

**STANDARD
DRAWING**
DEPARTMENT OF TRANSPORTATION

MULTI-DIRECTIONAL
SLIP BASE BREAKAWAY
P-POST
SIGN SUPPORT

09-01-12

T-S-23A

NOT TO SCALE