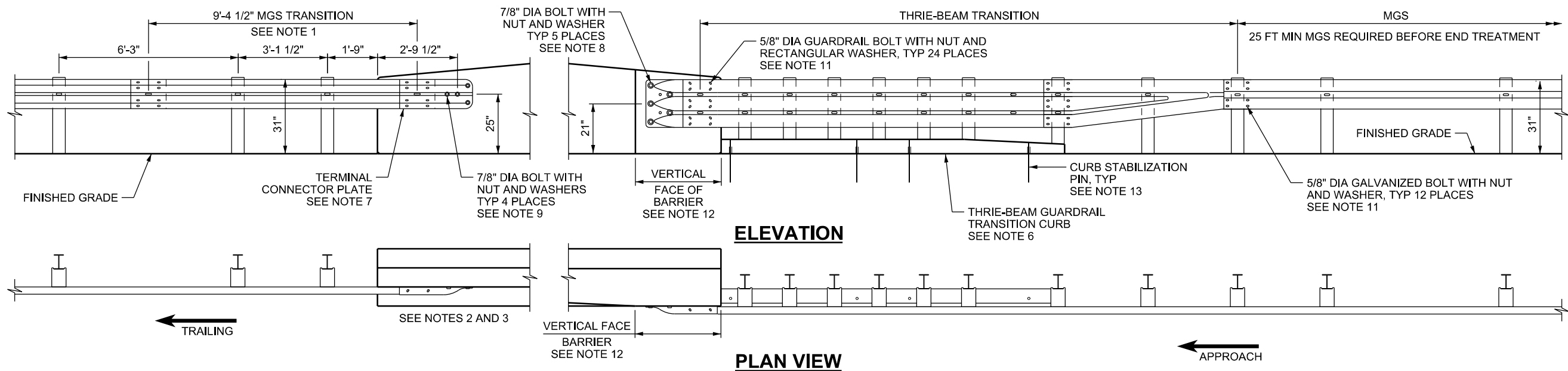


GUARDRAIL TRANSITION TO PRECAST F-SHAPE BARRIER

RIGHT SIDE SHOWN, LEFT SIDE SIMILAR



GUARDRAIL TRANSITION TO CONSTANT SLOPE BARRIER

CAST-IN-PLACE CONCRETE CONSTANT SLOPE BARRIER - 42 INCH SHOWN, OTHER CONSTANT SLOPE BARRIERS SIMILAR
RIGHT SIDE SHOWN, LEFT SIDE SIMILAR

NOTES:

1. SEE STD DWG BA 4A AND BA 4B1A FOR TRANSITION COMPONENTS.
2. DO NOT CONNECT AN APPROACH TRANSITION TO CONSTANT SLOPE BRIDGE PARAPET OR FULL HEIGHT CONSTANT SLOPE BARRIER.
3. SEE STD DWG BA 4B2B FOR ADDITIONAL CONNECTION DETAILS. USE BOLTS LONG ENOUGH THAT THE NUT WILL HAVE FULL ENGAGEMENT OF THE BOLT AND NO MORE THAN 1/4 INCH TO 1/2 INCH OF BOLT IS ABOVE THE NUT. CUT AND FIELD COAT BOLT WITH A ZINC COMPOUND WHEN BOLT EXCEEDS 1/2 INCH ABOVE THE NUT.
4. DO NOT USE ALL THREAD ROD.
5. COMPLETE SITE PREPARATIONS BEFORE INSTALLING TRANSITION.
6. SEE STD DWG BA 4B1B FOR THRIE-BEAM GUARDRAIL TRANSITION CURB DETAILS.
7. SEE STD DWG BA 4B2B FOR ADDITIONAL BARRIER END DETAILS AND SECTIONS.
8. USE STRUCTURAL HEX BOLTS CONFORMING TO ASTM F3125, GRADE A325. USE HARDENED WASHERS AND HEAVY HEX NUTS ACCORDING TO ASTM F436 AND A563, RESPECTIVELY. HOT DIP GALVANIZE ACCORDING TO ASTM A153.
9. USE STRUCTURAL HEX BOLTS CONFORMING TO ASTM A325. USE HARDENED WASHERS AND HEX NUTS ACCORDING TO ASTM F436 AND A 563, RESPECTIVELY. PLACE 1 3/4 INCH ROUND FLAT WASHER UNDER BOLT HEAD. PLACE 3 INCH x 3 INCH x 1/4 INCH SQUARE WASHER AND 7/8 INCH LOCK WASHER UNDER HEX NUT. HOT DIP GALVANIZE ACCORDING TO ASTM A153.
10. SEE STD DWG BA 1F3 FOR GUARDRAIL BOLT REQUIREMENTS.
11. SEE STD DWG BA 4A FOR GALVANIZED BOLT REQUIREMENTS.
12. SEE STD DWG BA 1, 2, & 3 SERIES FOR CAST-IN-PLACE CONCRETE CONSTANT SLOPE BARRIER TRANSITION DETAILS.
13. SEE STD DWG BA 4B1A FOR CURB STABILIZATION PIN DETAILS.

SUPPLEMENTAL DRAWING

NO.	DATE	APPR.	REMARKS
1	04/30/2020	SDD	NEW DRAWING.

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

DATE	DATE
APR. 30, 2020	APR. 30, 2020

GUARDRAIL
TRANSITION
LAYOUTS 1 OF 2

STANDARD DRAWING TITLE

STD. DWG. NO.
BA 4B2A