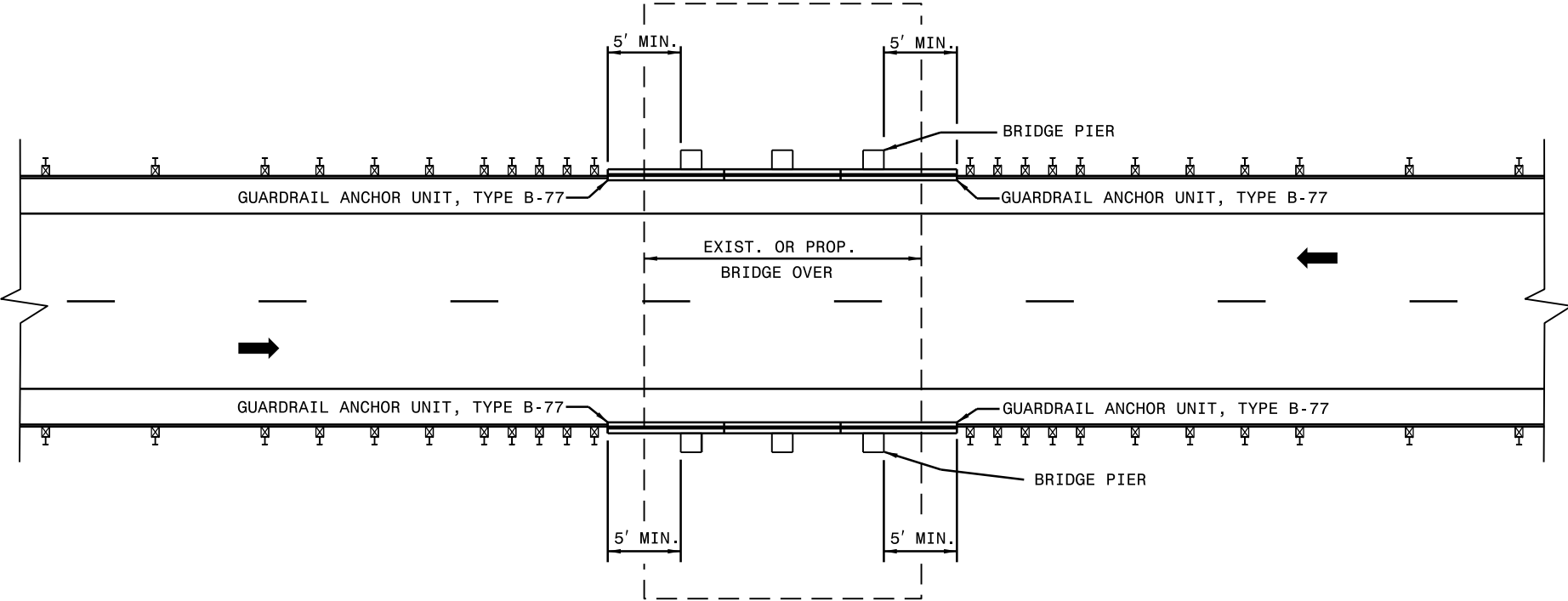


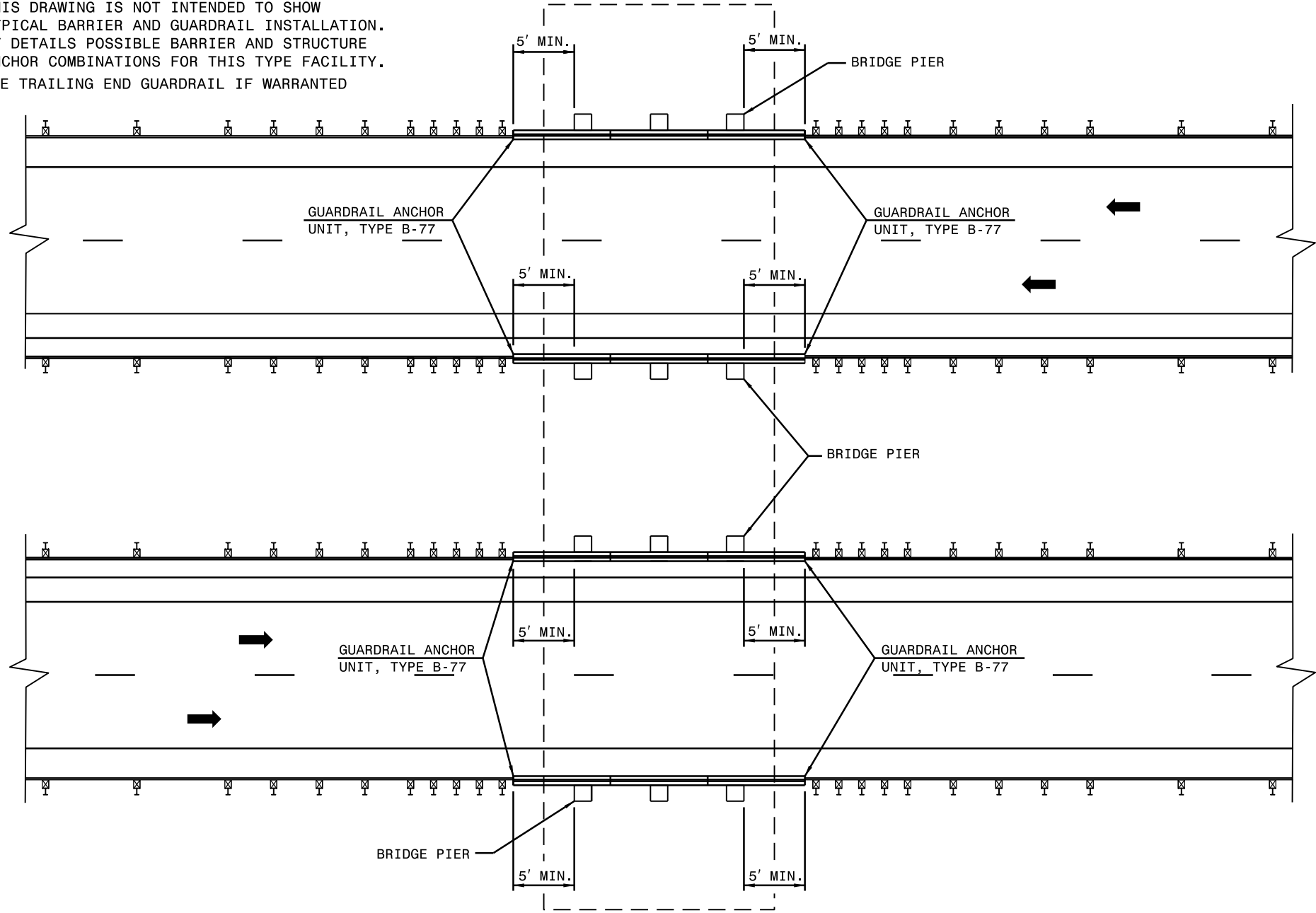
- NOTE:
- 1) THIS DRAWING IS NOT INTENDED TO SHOW TYPICAL BARRIER AND GUARDRAIL INSTALLATION.
IT DETAILS POSSIBLE BARRIER AND STRUCTURE ANCHOR COMBINATIONS FOR THIS TYPE FACILITY.
 - 2) USE TRAILING END GUARDRAIL IF WARRANTED



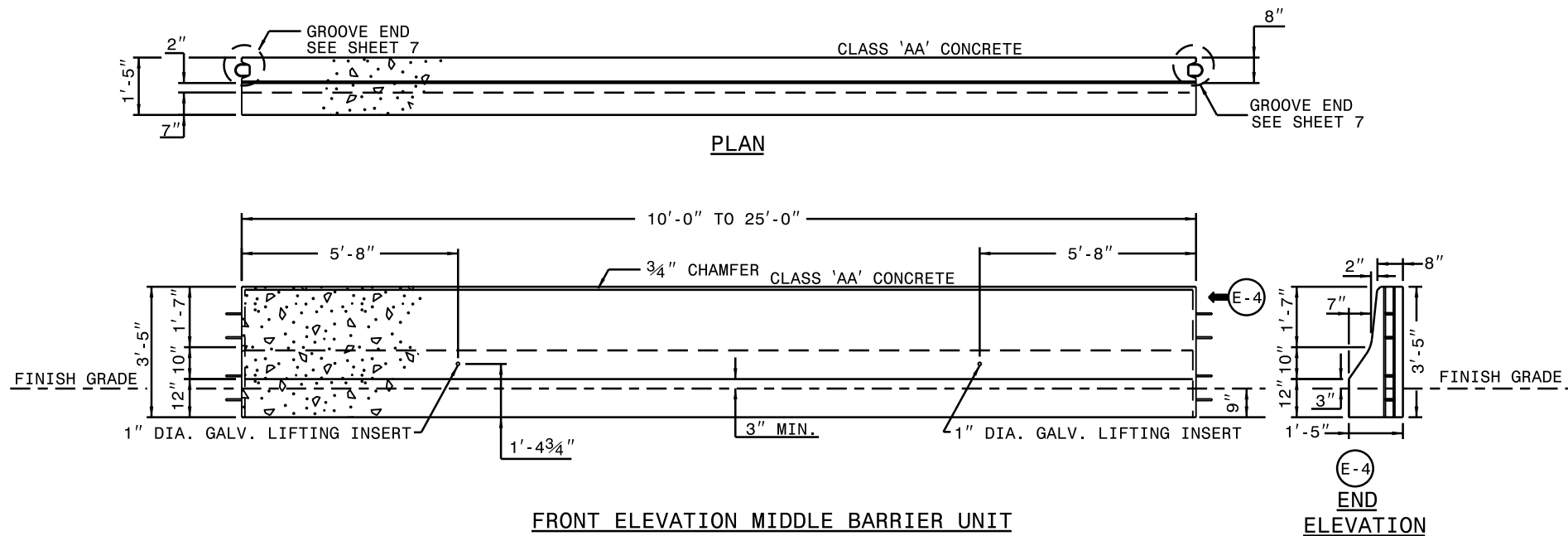
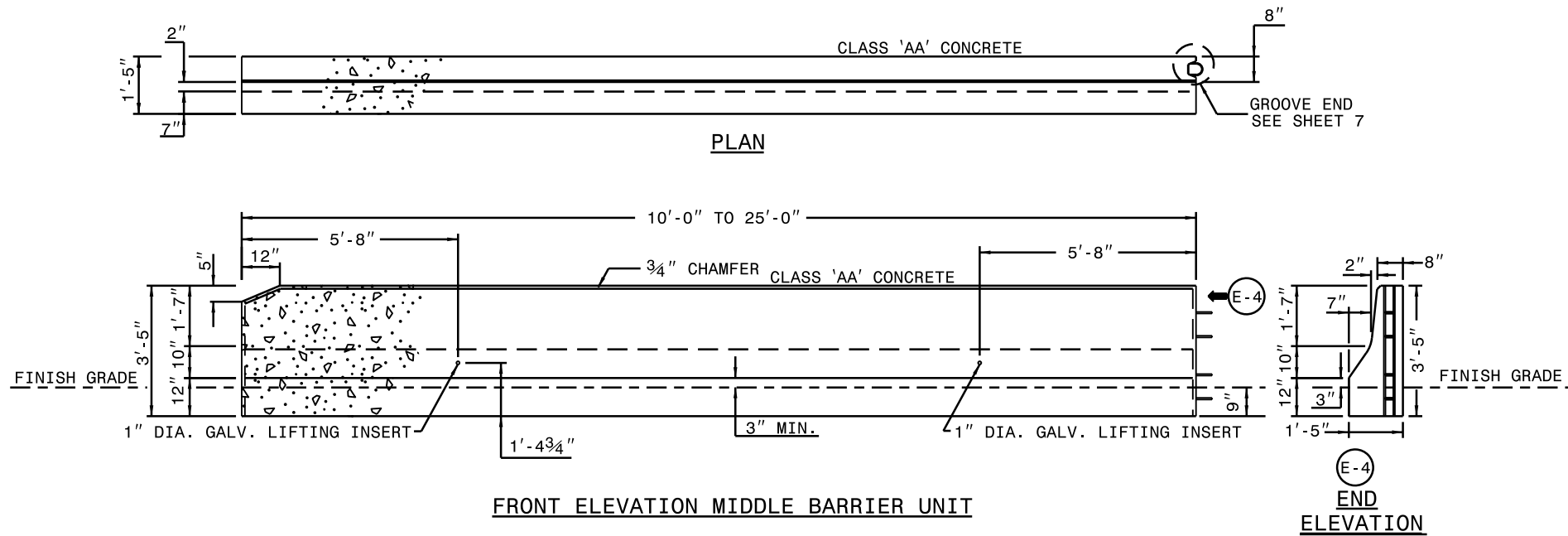
**GUARDRAIL AND BARRIER AT UNDIVIDED
HIGHWAY BRIDGE UNDERPASS**

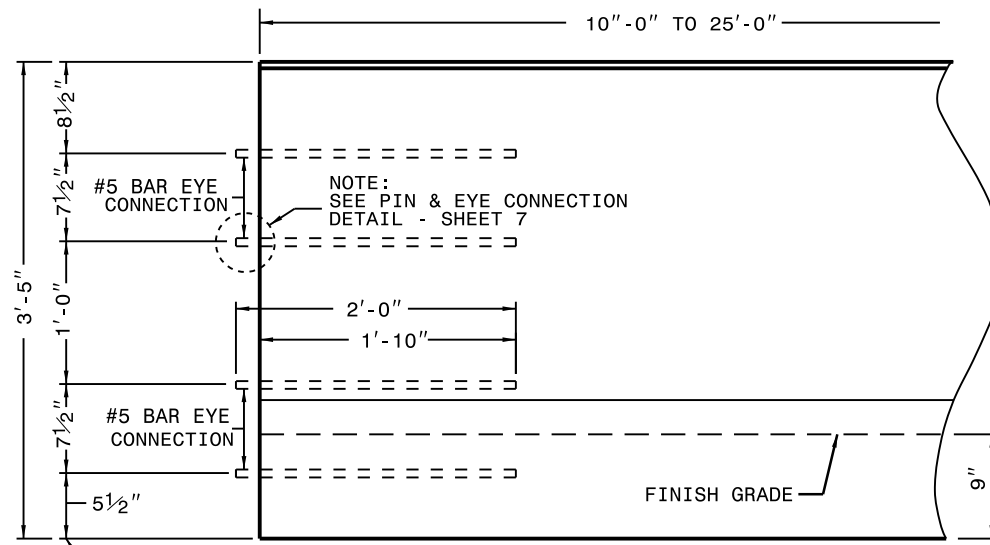
NOTE:

- 1) THIS DRAWING IS NOT INTENDED TO SHOW
TYPICAL BARRIER AND GUARDRAIL INSTALLATION.
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ANCHOR COMBINATIONS FOR THIS TYPE FACILITY.
- 2) USE TRAILING END GUARDRAIL IF WARRANTED



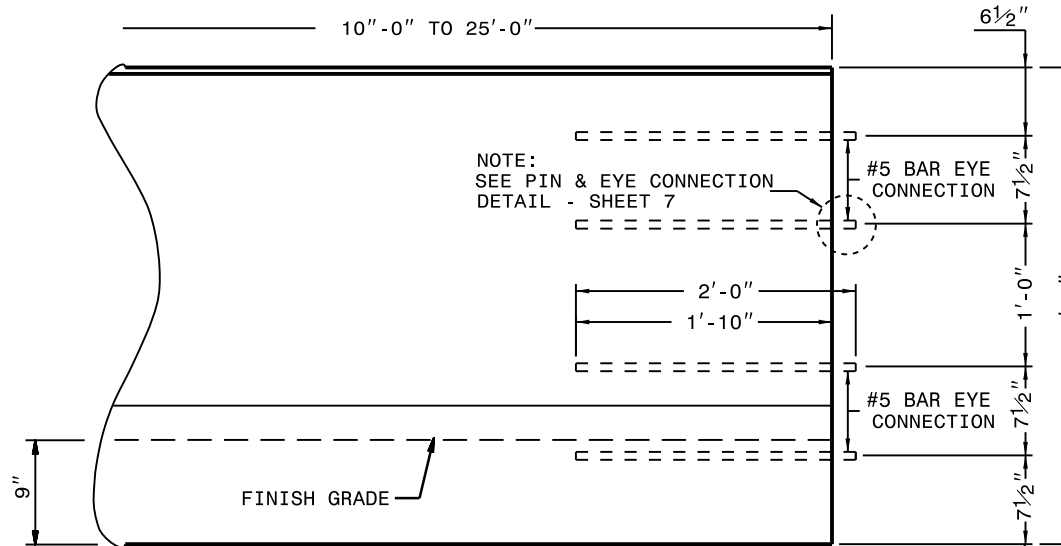
**GUARDRAIL AND BARRIER AT DIVIDED
HIGHWAY BRIDGE UNDERPASS**





NOTE:
THESE DIMENSIONS APPLY
TO THIS END ONLY.

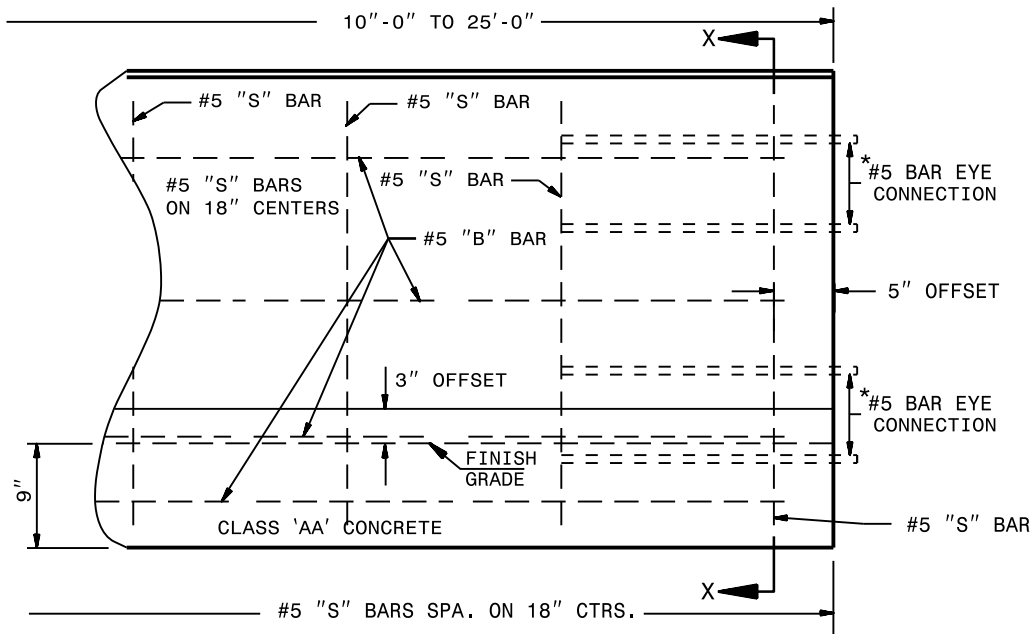
PART FRONT ELEVATION



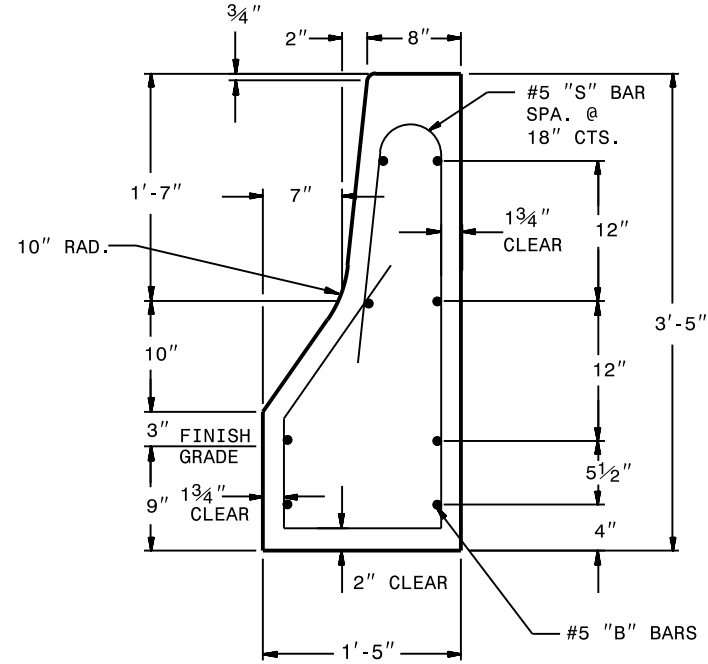
NOTE:
THESE DIMENSIONS APPLY
TO THIS END ONLY.

PART FRONT ELEVATION

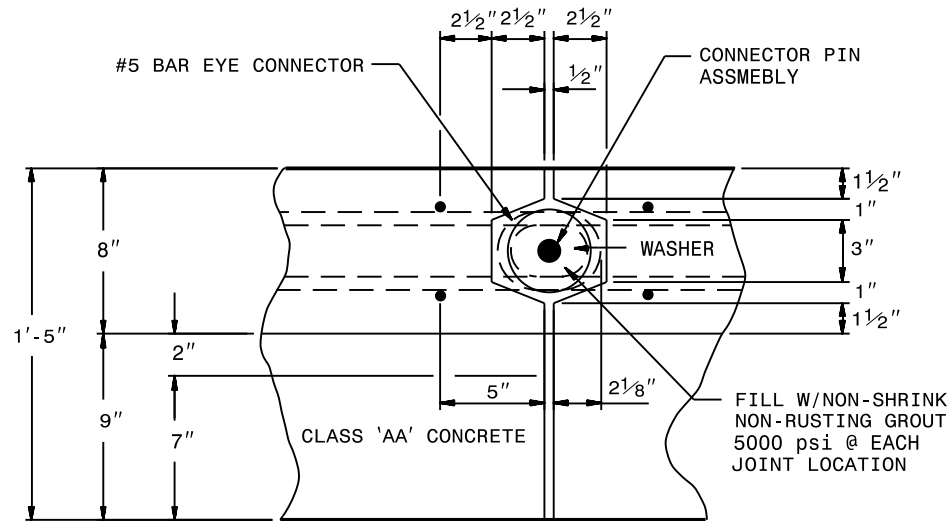
ELEVATION VIEWS
SHOWING PLACEMENT OF EYE
BAR AT EACH END



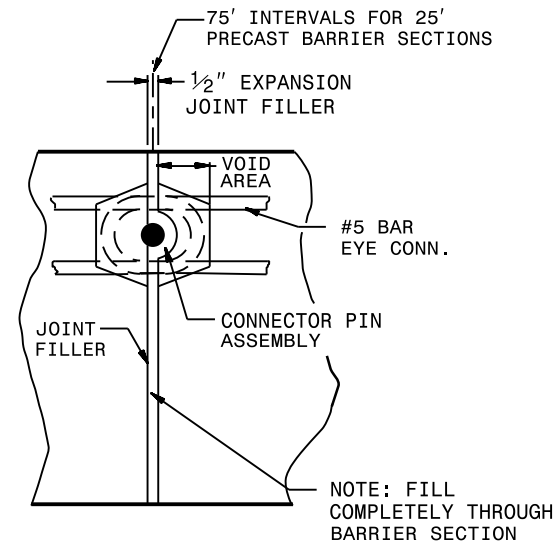
PART FRONT ELEVATION



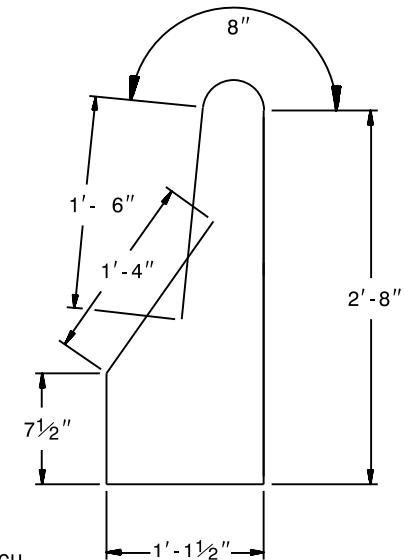
**DETAIL X-X
CROSS SECTIONAL VIEW**



PLAN OF BONDED CONNECTION OF PRECAST UNIT

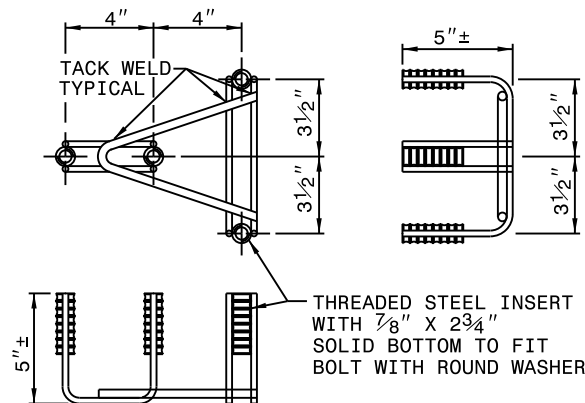


JOINT FILLER DETAIL

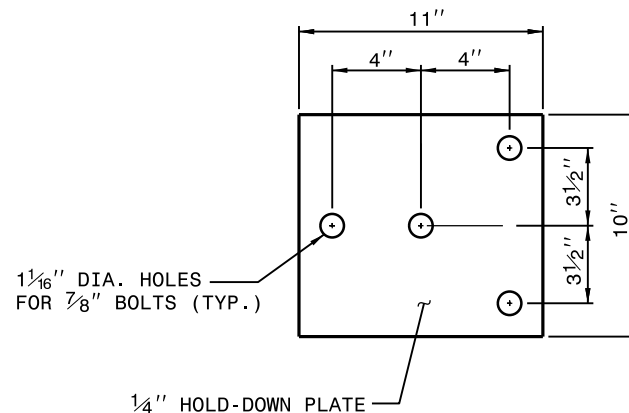


S - BARS

#5 BAR



DETAIL A
4 BOLT INSERT ASSEMBLY



DETAIL B
4 BOLT HOLD DOWN PLATE

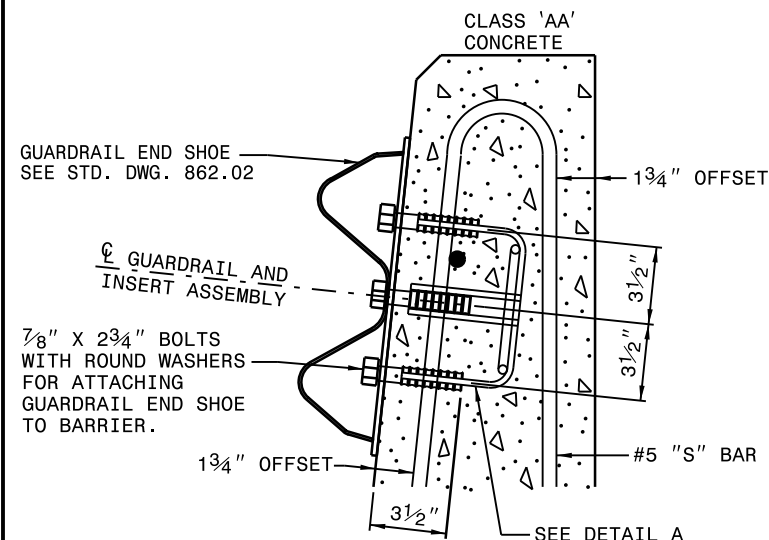
NOTES FOR 4 BOLT HOLD DOWN PLATE

USE A 1/4" HOLD DOWN PLATE AND 4 - 7/8" DIA. BOLTS WITH NUTS AND WASHERS FOR GUARDRAIL ANCHOR ASSEMBLY.

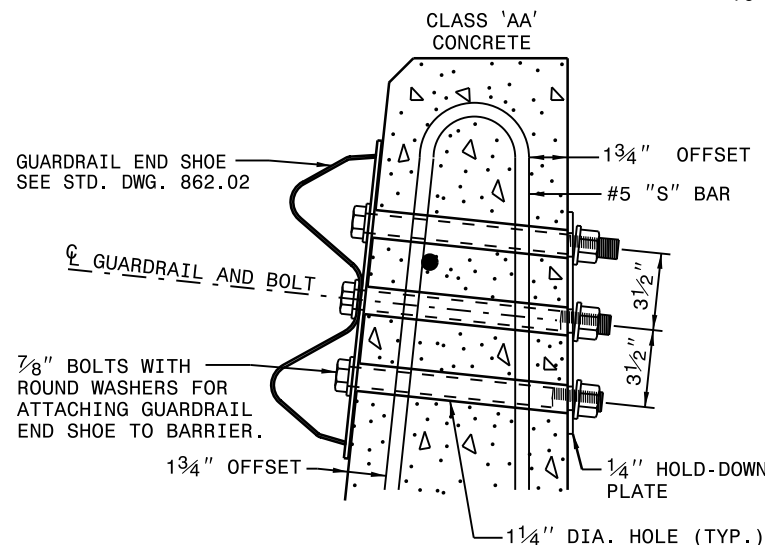
USE HOLD-DOWN PLATE WHICH CONFORMS TO AASHTO M270 GRADE 36. AFTER FABRICATION, HOT DIP GALVANIZE THE HOLD-DOWN PLATE IN ACCORDANCE WITH AASHTO M111.

AFTER INSTALLATION, BURR THE EXPOSED THREAD OF THE BOLT.

FORM OR DRILL THE 1 1/4" DIA. HOLES WITH A CORE BIT. IMPACT TOOLS WILL NOT BE PERMITTED. REPAIR ANY CONCRETE DAMAGED BY THIS WORK TO THE SATISFACTION OF THE ENGINEER.



PART SECTION
OF BARRIER
THRU END SHOE SECTION AND
4 BOLT INSERT ASSEMBLY



PART SECTION
OF BARRIER
THRU END SHOE SECTION AND
4 BOLT HOLD DOWN PLATE

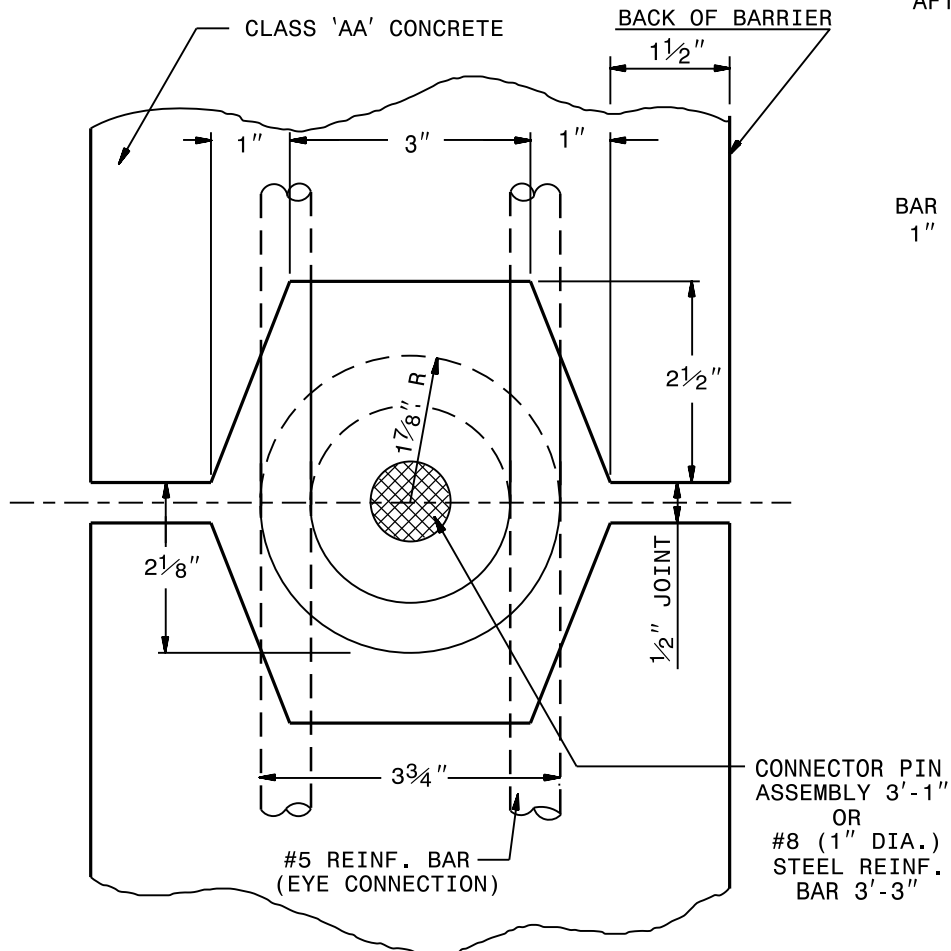
ROADWAY STANDARD DRAWING FOR

PRECAST REINFORCED CONCRETE BARRIER

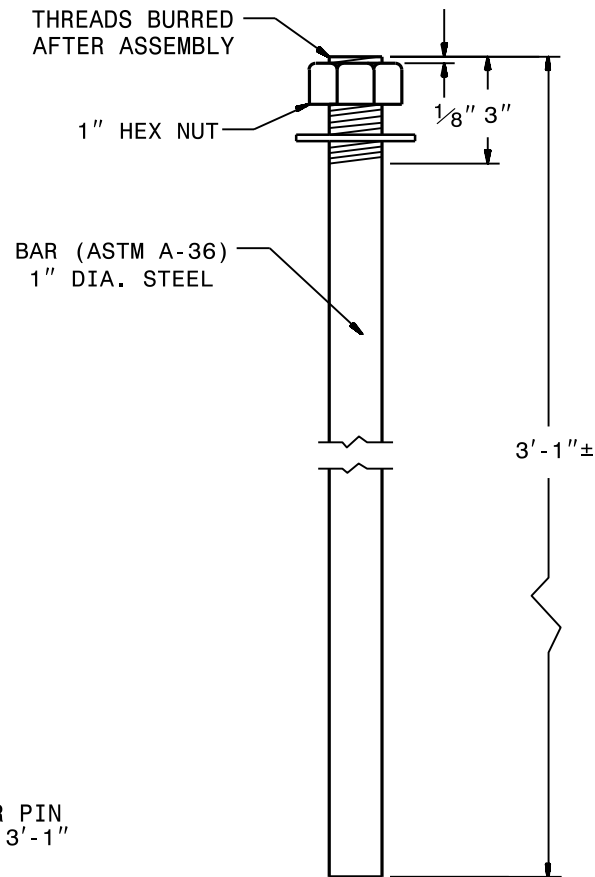
41" SINGLE FACED

1-18

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

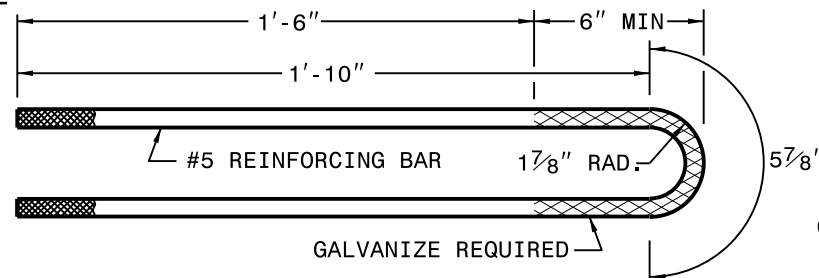


**GROOVE END AND
PIN & EYE CONNECTION DETAILS**

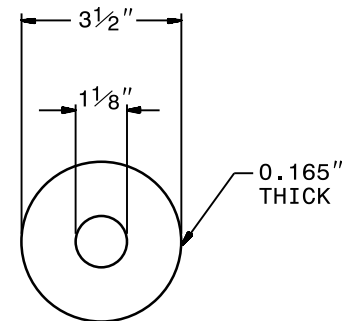


**CONNECTOR PIN
ASSEMBLY**

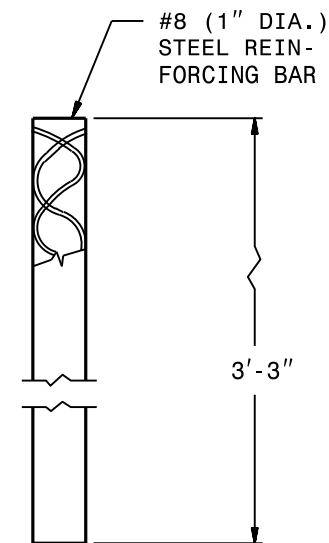
OPTION #1
GALVANIZE ALL PARTS IN ACCORDANCE
WITH ASTM A-153 SPEC.



DETAIL OF REINFORCING EYE BAR



**PLAIN GALVANIZED
STEEL WASHER
FOR 1" PIN**



**#8 REINFORCING
STEEL BAR
CONNECTOR PIN**

OPTION #2
GALVANIZE ALL PARTS IN ACCORDANCE
WITH ASTM A-153 SPEC.

ROADWAY STANDARD DRAWING FOR

PRECAST REINFORCED CONCRETE BARRIER

41" SINGLE FACED

1-18

STATE OF

NORTH CAROLINA

DEPT. OF TRANSPORTATION

DIVISION OF HIGHWAYS

RALEIGH, N.C.

