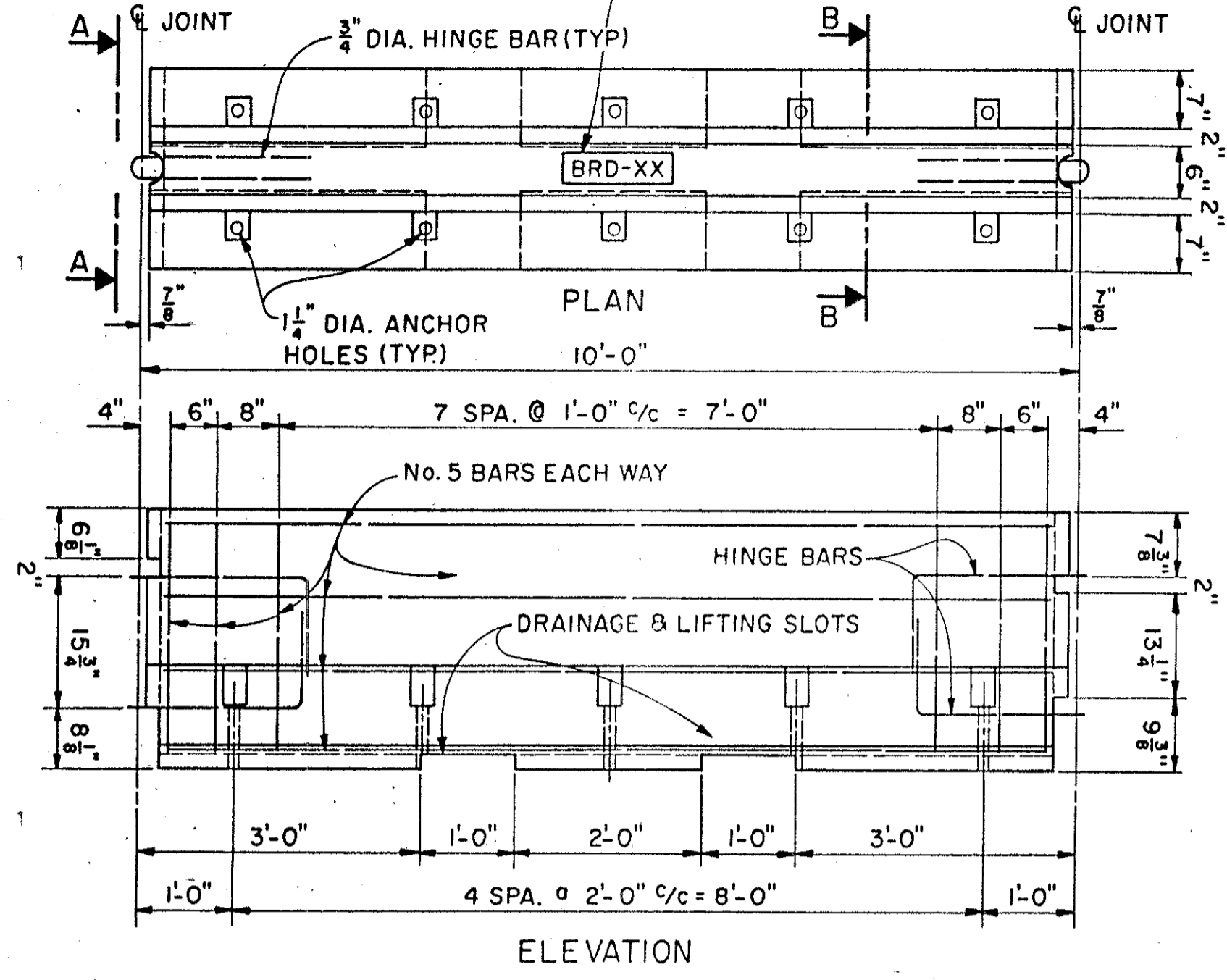
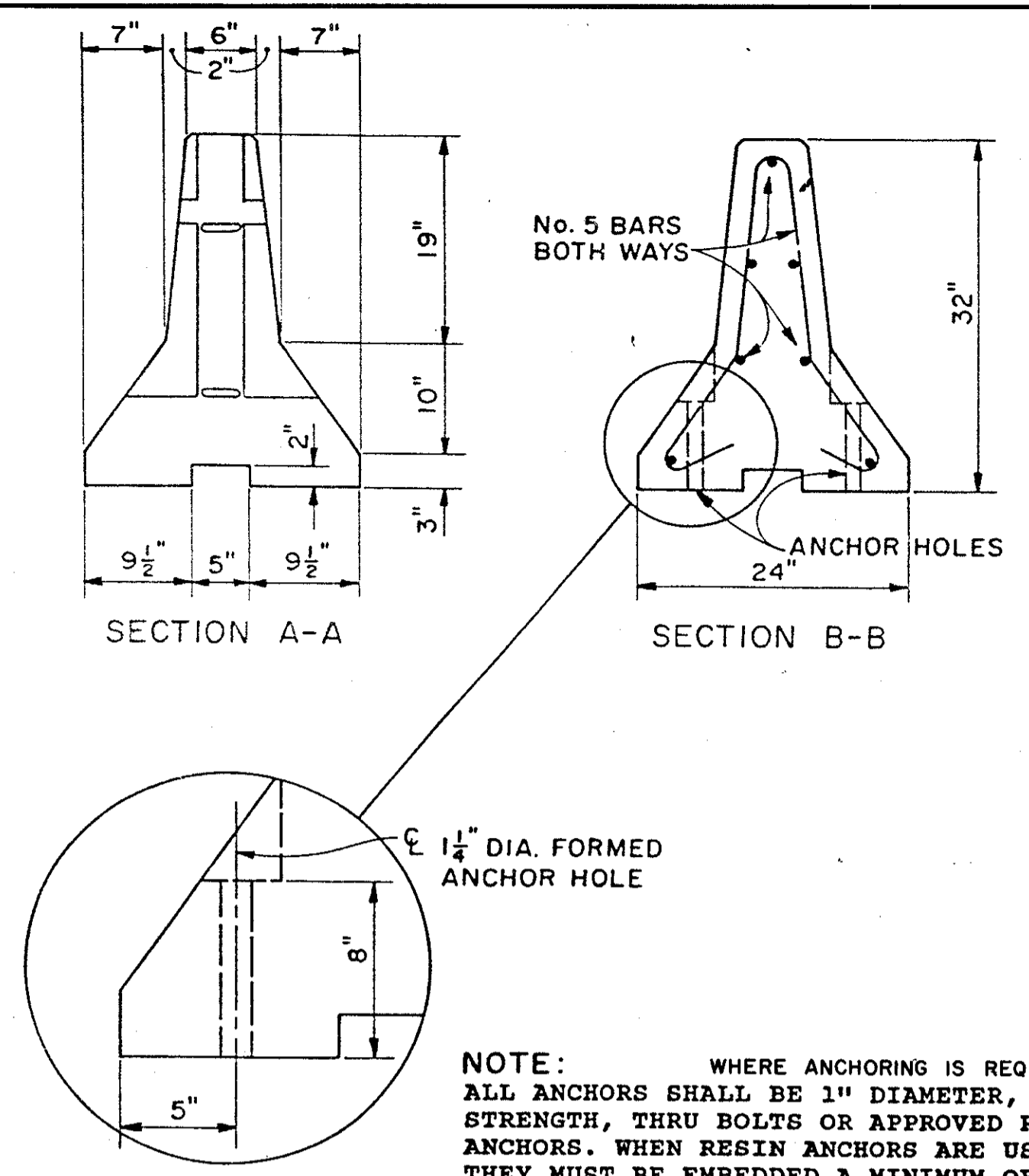


ALL NEW BARRIER SEGMENTS MADE ACCORDING TO THE PROPOSED DESIGN, OR AN APPROVED EQUAL, SHALL BE CLEARLY MARKED, SUCH AS "BRD-XX" (WHERE XX = THE YEAR CAST).

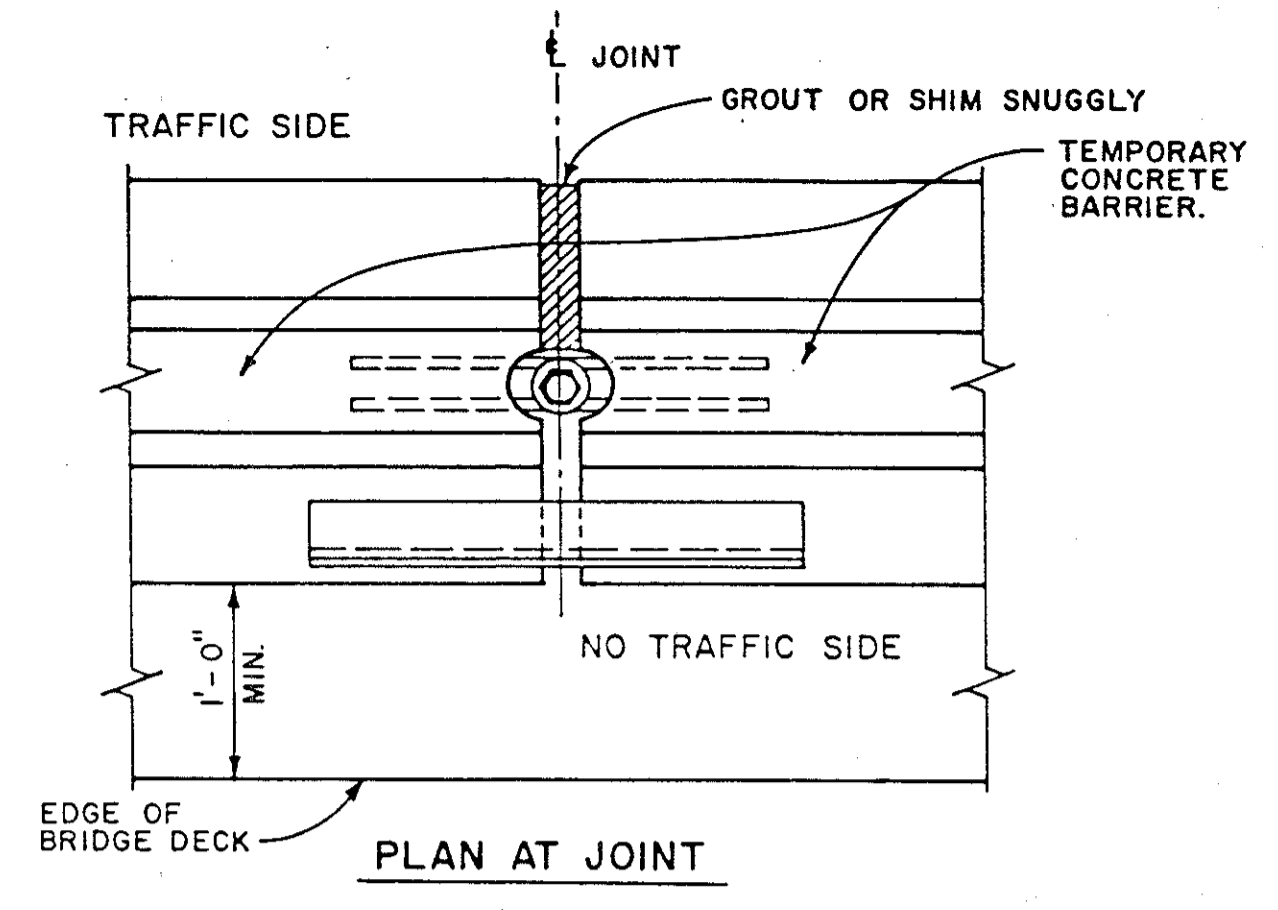


PROPOSED BARRIER DETAILS

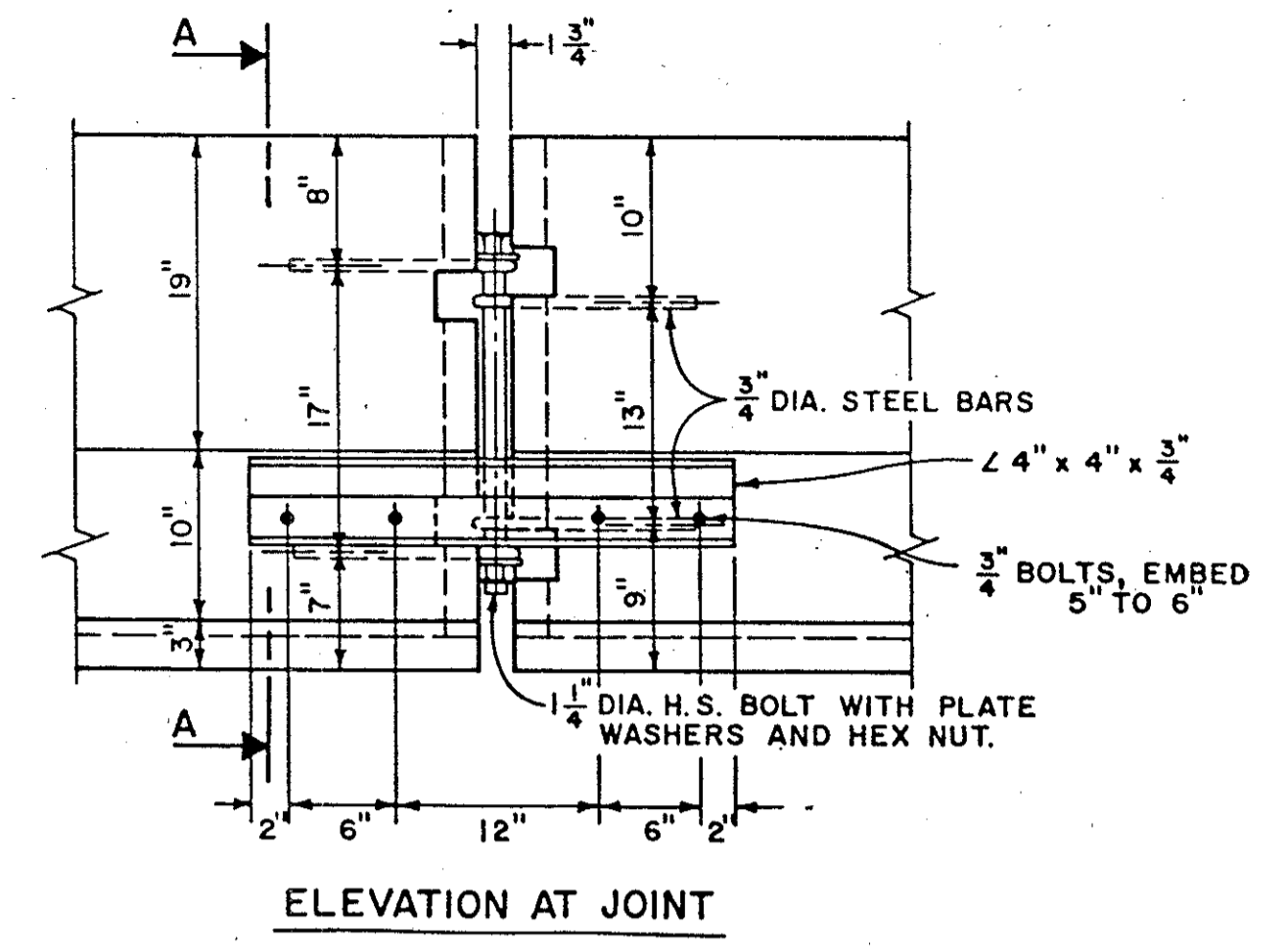


PROPOSED BARRIER DETAILS

NOTE: WHERE ANCHORING IS REQUIRED, ALL ANCHORS SHALL BE 1" DIAMETER, HIGH STRENGTH, THRU BOLTS OR APPROVED RESIN ANCHORS. WHEN RESIN ANCHORS ARE USED, THEY MUST BE EMBEDDED A MINIMUM OF 6" INTO FIRM CONCRETE.

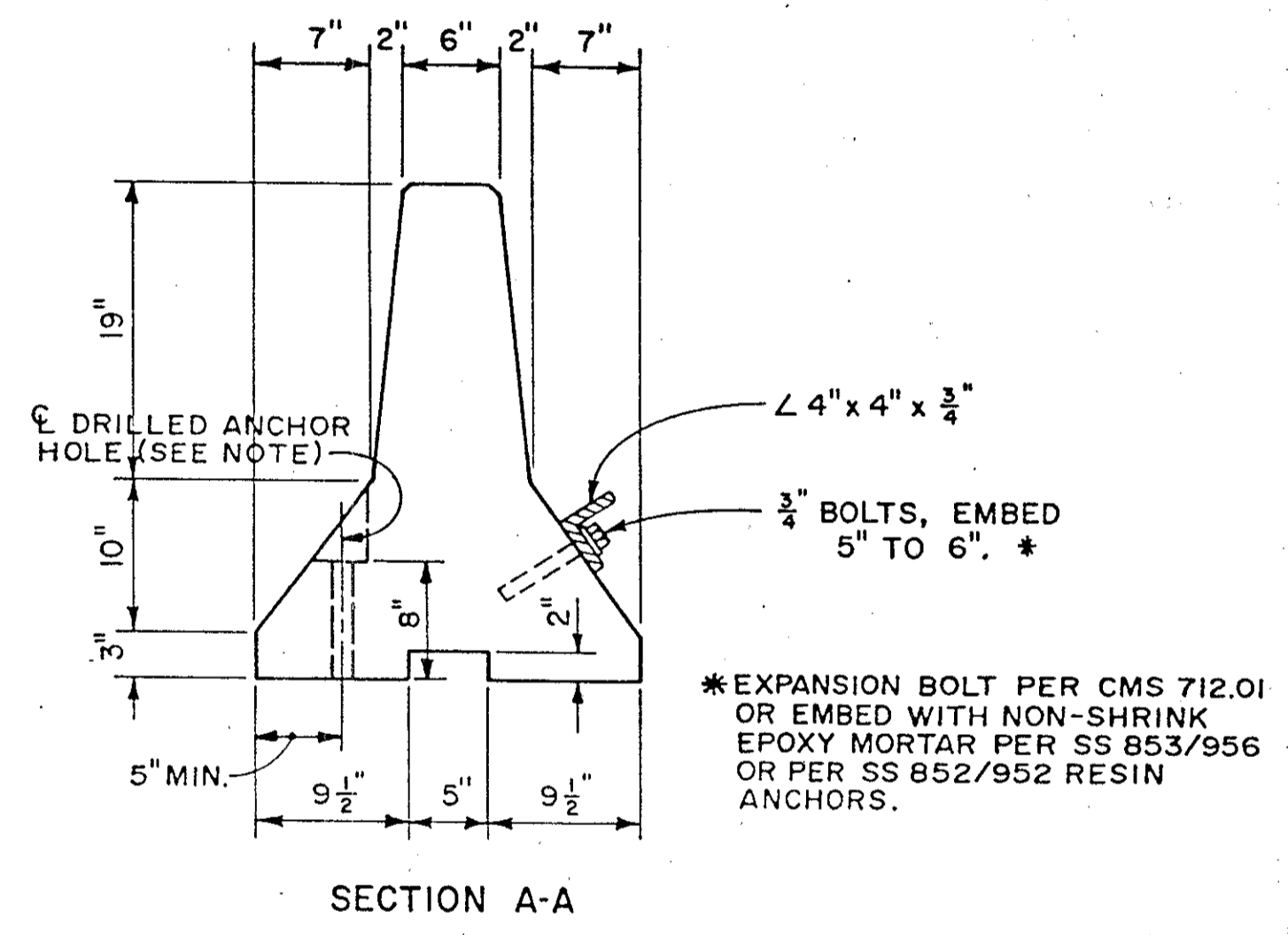


EXISTING BRIDGE MOUNTED BARRIER DETAILS



TEMPORARY MEDIAN BARRIER NOTES:

- A. ITEM 622, TEMPORARY CONCRETE BARRIER, AS PER PLAN, IS CARRIED IN THE ROADWAY QUANTITIES.
- B. PRECAST CONCRETE BARRIERS SHALL BE FURNISHED IN 10'-0" LENGTHS (MINIMUM) AND POSITIVELY JOINED AS SHOWN ON THIS SHEET.
- C. FOR ADDITIONAL NOTES AND DETAILS, SEE DRAWING MC-9A. (THE REQUIREMENTS ON DRAWING MC-9A TO EITHER ANCHOR OR BRACE THE UNITS SHALL BE WAIVED)

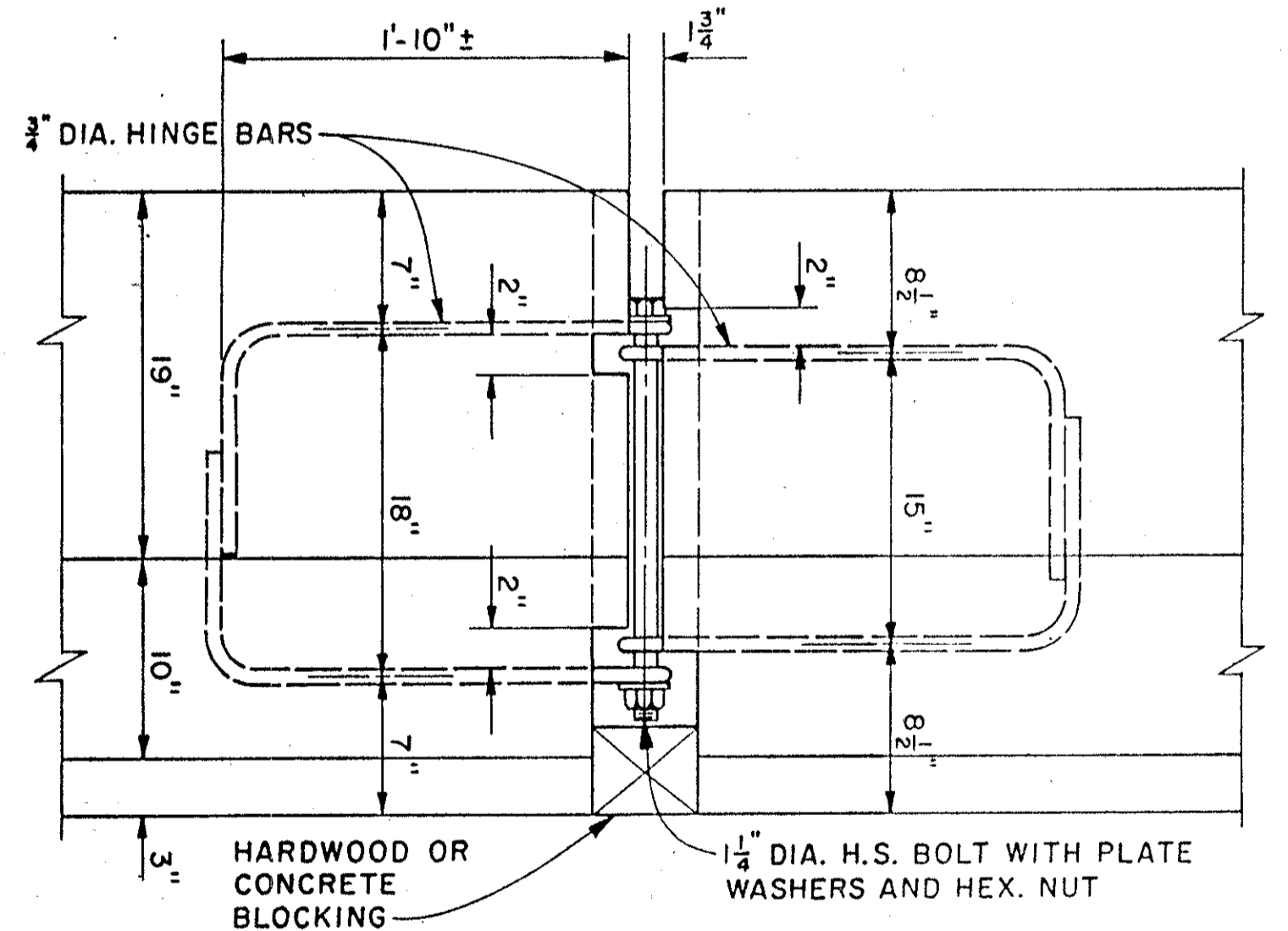


SECTION A-A

NOTE: IN ORDER TO ANCHOR THE EXISTING BRIDGE MOUNTED BARRIER TO THE BRIDGE DECK, WHERE ANCHORING IS REQUIRED, 1-1/4" MIN. DIAMETER HOLES MUST BE DRILLED THROUGH THE BARRIER TOE AT THE LOCATION SHOWN IN THE ABOVE SECTION. GREAT CARE MUST BE USED IN DRILLING AND INSTALLING THE BARRIER SEGMENTS, AS ANY DAMAGE TO THEM WILL BE CONSIDERED CAUSE FOR THEIR REJECTION.

ALL ANCHORS SHALL BE 1" DIAMETER, HIGH STRENGTH, THRU BOLTS OR APPROVED RESIN ANCHORS. WHEN RESIN ANCHORS ARE USED, THEY MUST BE EMBEDDED A MINIMUM OF 6" INTO FIRM CONCRETE.

EXISTING BRIDGE MOUNTED BARRIER DETAILS

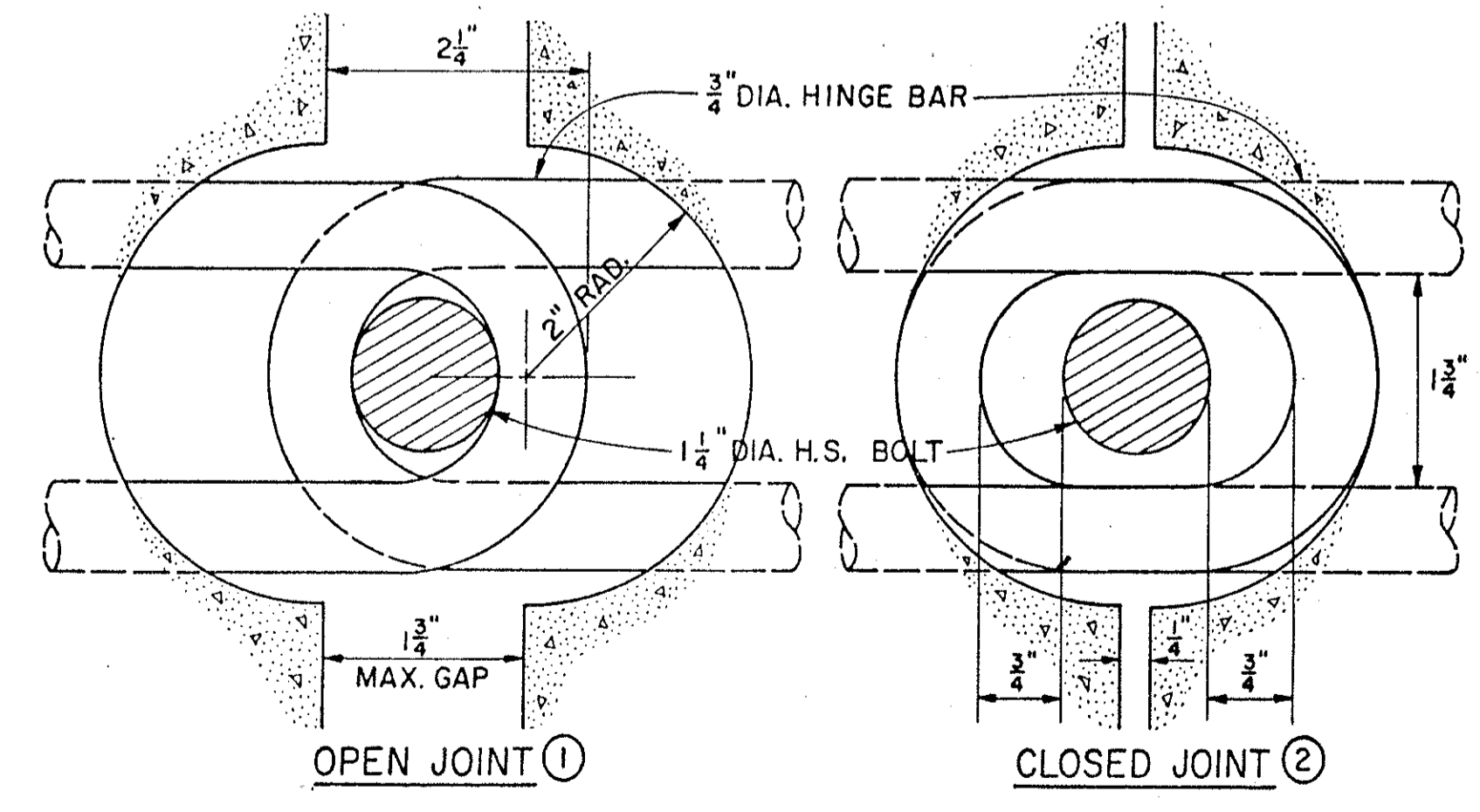


DETAIL AT HINGED CONNECTION

PROPOSED BARRIER DETAILS

- A. THE BRIDGE DECK SURFACE AREA ON WHICH THE PRECAST CONCRETE BARRIERS WILL REST SHALL BE CLEARED OF ALL LOOSE SAND, GRAVEL, DIRT AND DEBRIS.
- B. ANY IRREGULARITIES IN THE BRIDGE DECK AREA, UNLESS JUDGED BY THE ENGINEER TO BE INCONSEQUENTIAL, SHALL BE LEVELED WITH GROUT AND/OR ASPHALT.
- C. ASPHALT ROLL ROOFING SHALL BE PLACED ON THOSE BRIDGE DECK AREAS, AS JUDGED BY THE ENGINEER, TO HAVE A SURFACE ROUGHNESS WHICH WOULD INHIBIT FRICTION CONTACT BETWEEN BARRIER SEGMENTS AND DECK.

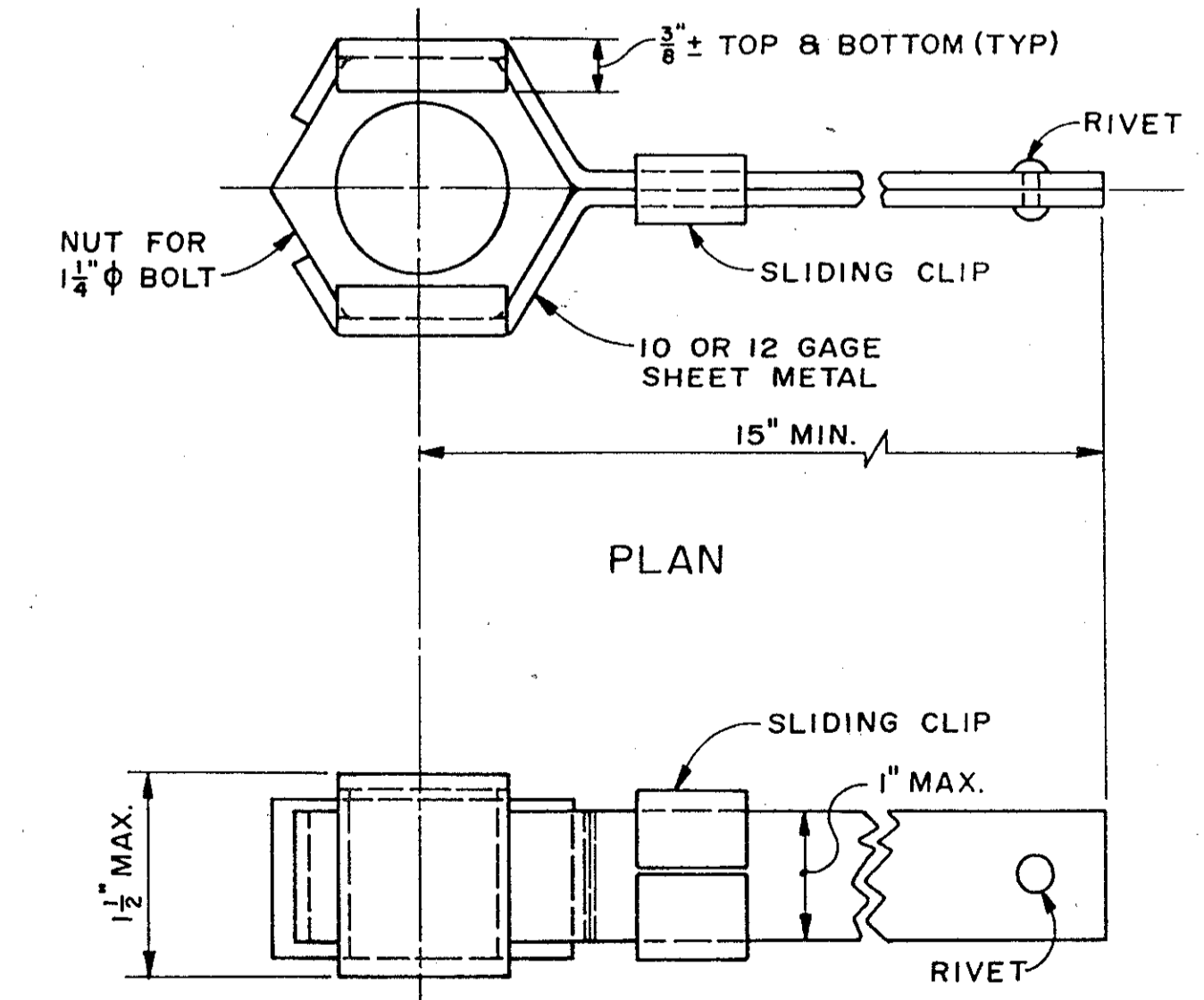
BRIDGE DECK SURFACE PREPARATION



JOINT CONNECTION DETAILS

- ① BARRIER JOINTS MUST BE FULLY OPEN BEFORE NUT IS TIGHTENED ONTO BOLT AND OPENING IS EITHER GROUTED OR SHIMMED.
- ② BARRIERS SHOULD INITIALLY BE PLACED CLOSER TOGETHER SO THAT BOLTS CAN BE EASILY INSERTED THROUGH HINGE BAR LOOPS.

TYPICAL BARRIER DETAILS



ELEVATION

SHEET METAL NUT RETAINER

SUGGESTED FOR USE IN EXISTING BRIDGE MOUNTED BARRIER

COLPETZER-THOMAS, INC.
AN ENGINEERING GROUP

WILLOUGHBY • MENTOR • NORTH CANTON • STEUBENVILLE • LORAIN

PHASE CONSTRUCTION DETAILS
LAK-615-0402
LAKE COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J.P.R.	R.L.B.	R.L.B.	R.J.C.	JEA	4-6-88	