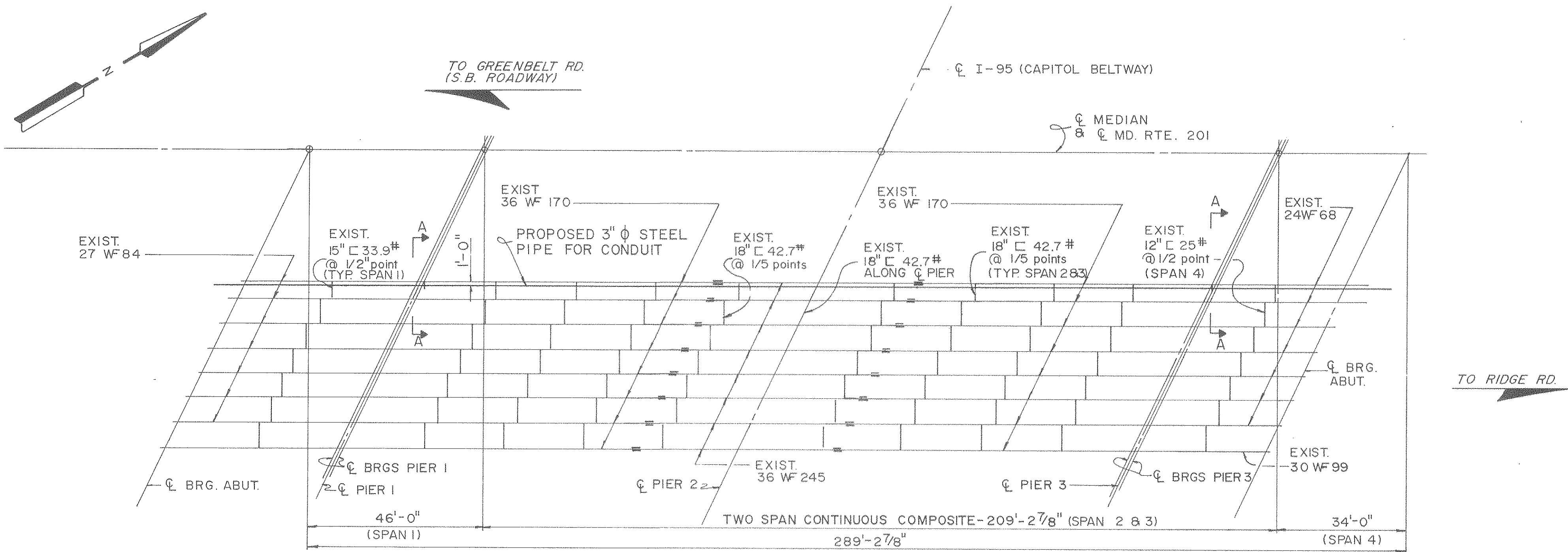
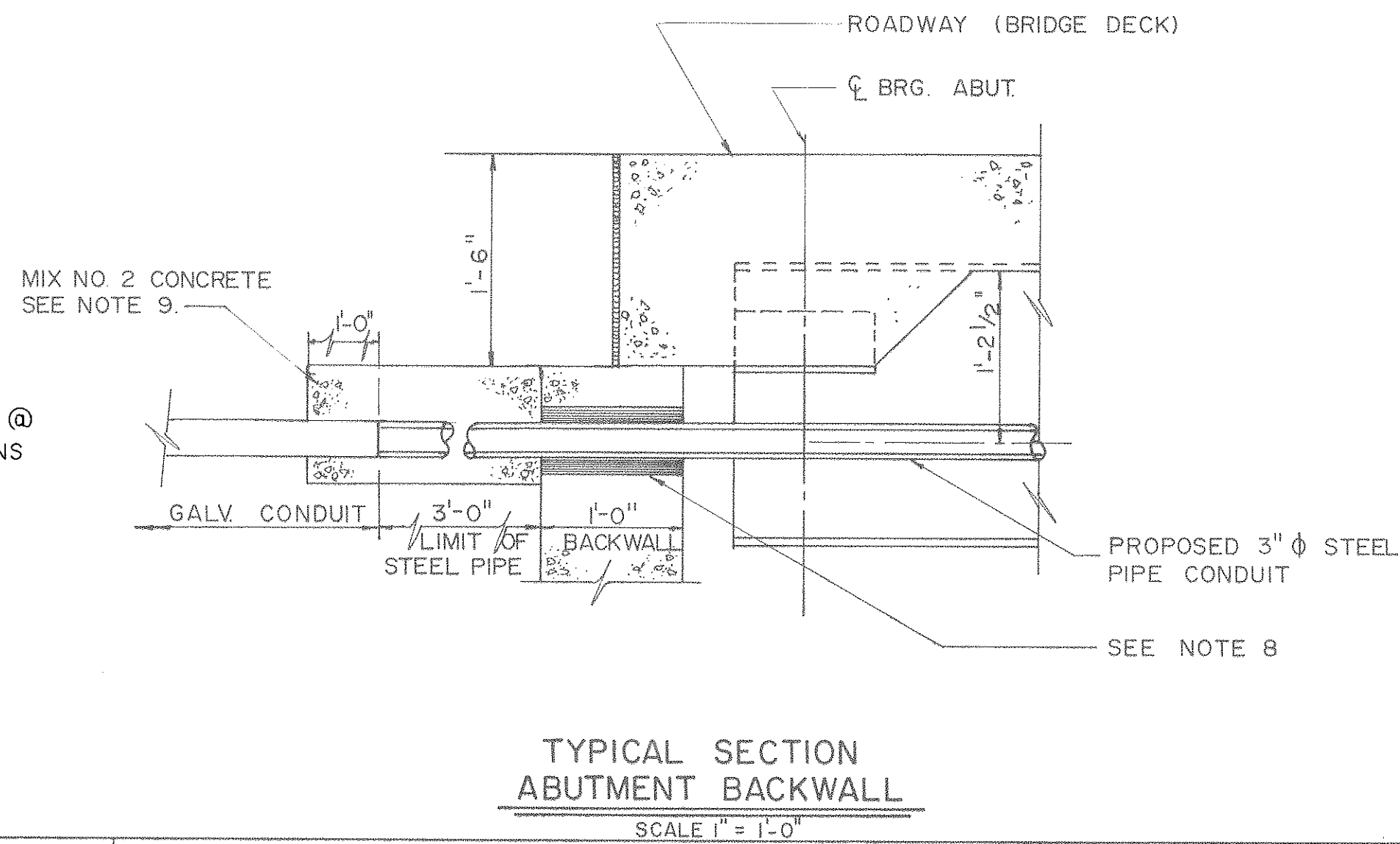
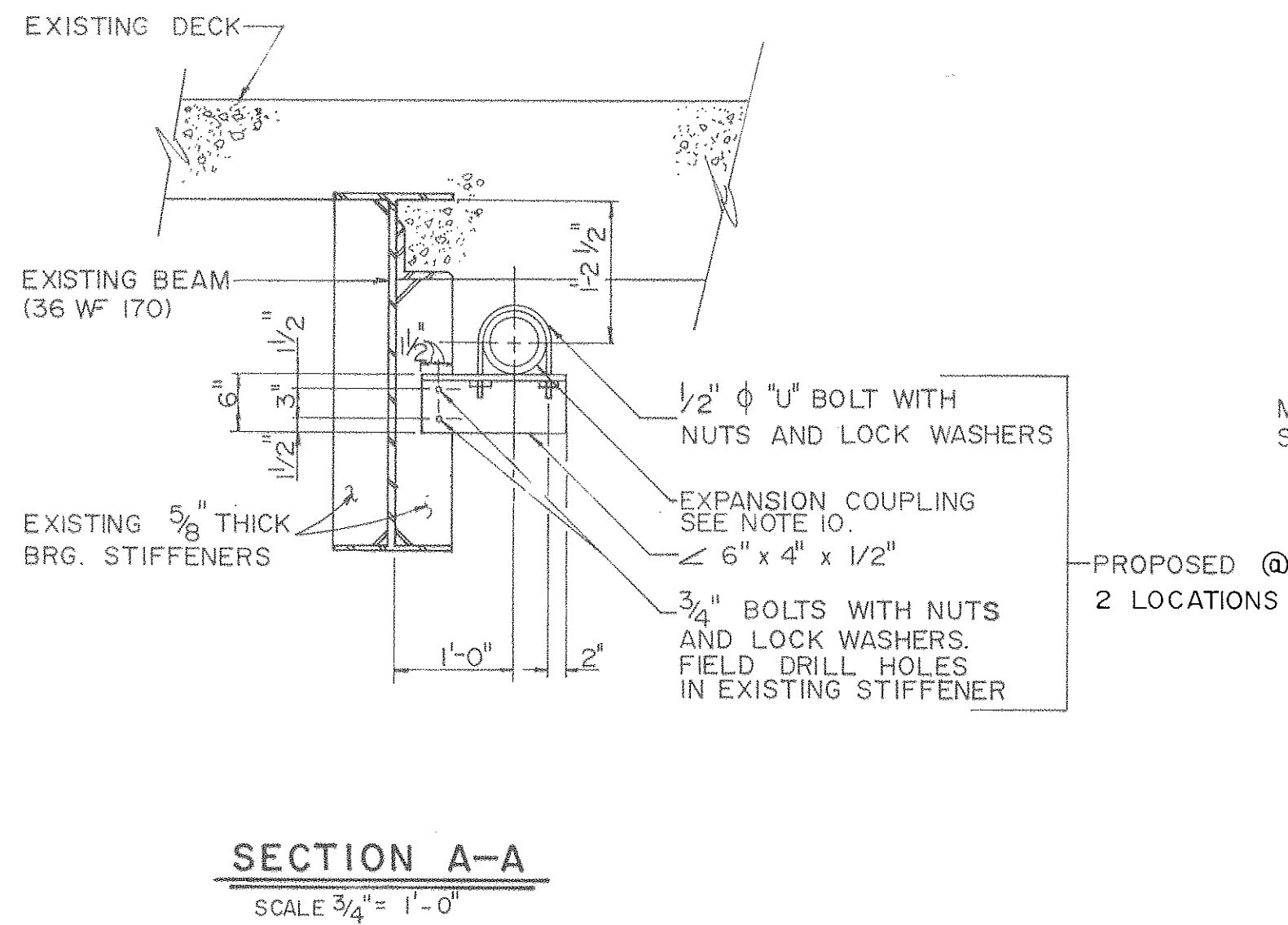
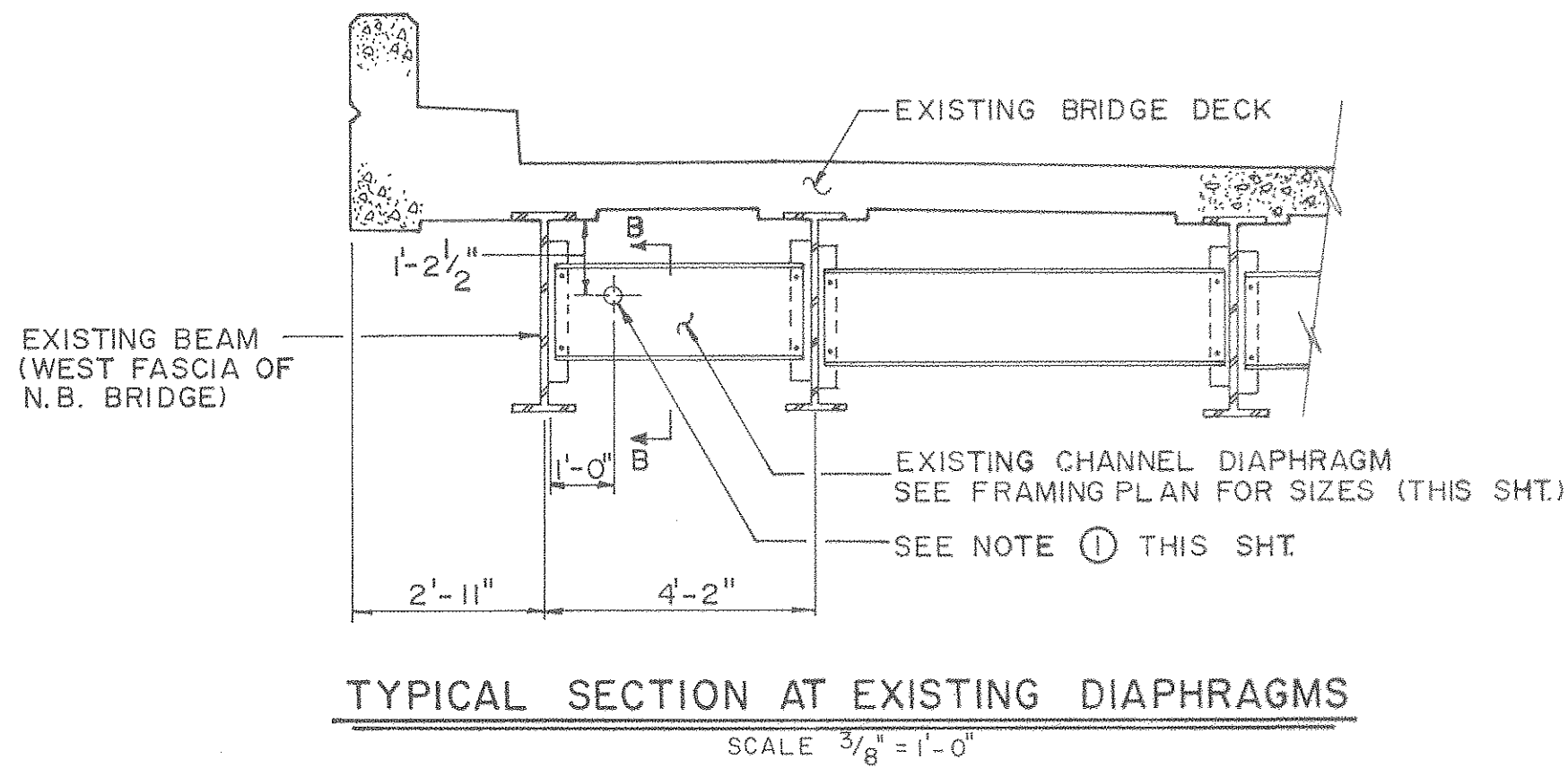


F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.			

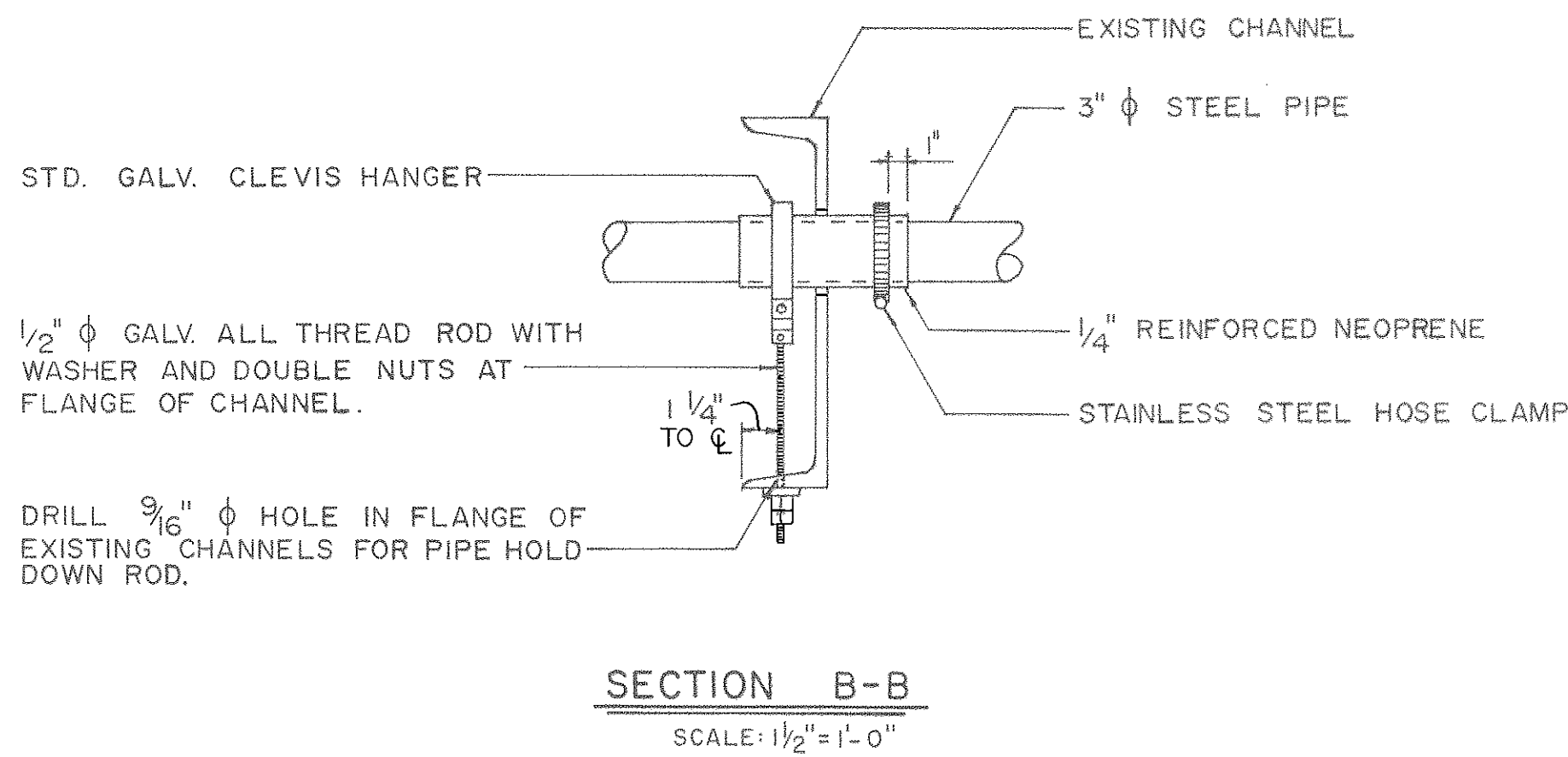


FRAMING PLAN
MD RTE 201 N.B. ROADWAY
SCALE: 1"=20'



NOTES:

- 3" I.D. Steel Pipe (3.5" O.D. with 0.216" wall thickness) shall be place thru 4-1/4" hole drilled in webs of channel diaphragms.
- Area around drilled hole in diaphragms and all new steel, shall be painted in accordance with Specifications Section 812. The first coat (primer) shall be basic lead silicon chromate meeting the requirements of Section 910.01 and the second (final) coat to be similar to existing paint color.
- Steel Pipe for conduit shall meet Specification Section 909.08 and shall be hot-dipped galvanized. Threaded couplings shall be used as required for construction.
- After inserting pipes thru holes in existing diaphragms, pipes shall be wrapped with one layer of 1/4" thick reinforced sheet neoprene. The neoprene shall be 8" wide and shall be centered on the opening in the channel. The sheet neoprene shall be held to the pipe with a stainless steel hose clamp on one side of the channels and a clevis hanger (part of hold-down device) on the other side of the channels.
- Steel angle brackets shall be ASTM A-36.
- Bolts shall be ASTM A-325.
- All required hole are to be drilled or saw cut in existing steel members, burning will not be allowed.
- Core drill 5" diameter hole in existing backwall. After aligning steel pipe conduit, grout opening around pipe with non-shrink grout meeting the requirements of Specification Sub-Section 907.07.03.
- Backfill pipe trench with Mix No. 2 concrete. Limits of concrete fill shall be vertically from bottom of trench excavation to top of backwall; limits parallel to conduit shall be a minimum of 1'-0" beyond connection of galvanized conduit to pipe conduit and limits perpendicular to conduit shall be the width of the excavated trench.
- Provide Expansion Fitting at angle bracket at piers 1 and 3. Expansion heads to be attached to pipe conduit in spans 2 and 3 with insulating bushing attached to pipe conduit in spans 1 and 4. Expansion fittings shall consist of a malleable iron head and steel sleeve which shall be hot-dipped galvanized and assembled with a watertight packing gland, an insulated bushing, pressure ring and gasket. The fitting shall provide 4 inches of movement. Bonding jumper required and shall be Underwriters Lab Approved.
- The price bid for Steel Pipe Conduit includes all materials, equipment, tools, expansion fittings, couplings, steel angles, cutting holes in existing diaphragms, sheet neoprene, nut, bolts, concrete backfill at abutments and etc., all as needed for the acceptable installation of pipe conduit.



REVISIONS	APPROVALS
	CHIEF, SIGNAL DESIGN SECTION
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DIVISION
	DEPUTY CHIEF ENGINEER, TRAFFIC
REVISION 'A' 5/9/90 INSERT THIS SHEET	

MDOT – STATE HIGHWAY ADMINISTRATION Office of Traffic TRAFFIC ENGINEERING DIVISION			
DRAWN BY: C. MUNZ (FOR JMT) DES. BY: W.R. ASBURY (FOR JMT) CHK. BY:		MD 201 AND I-95 (SB) RAMP INTERCONNECT PIPE CONDUIT ON BRIDGE NO. 16140 COUNTY: PRINCE GEORGE'S	
DATE: 7/5/90	F.A.P. NO.	TS/STD. NO.	SHEET NO.
SCALE: AS NOTED	S.H.A. NO. P-944-501-385	2586X-1/C1	3A OF 9

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