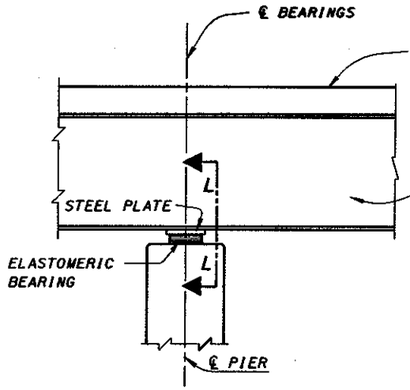
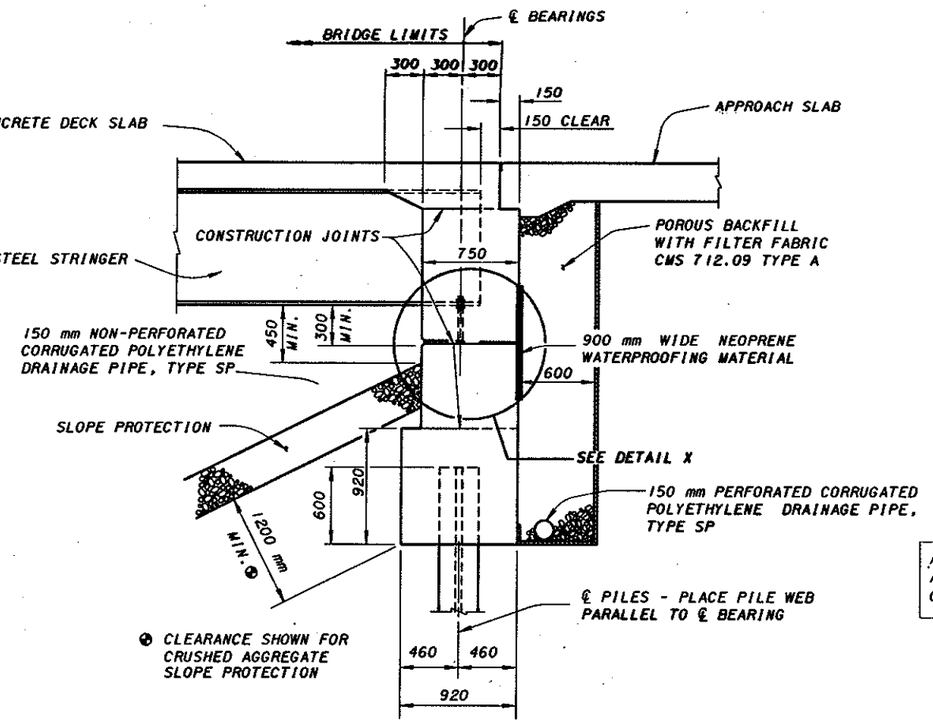
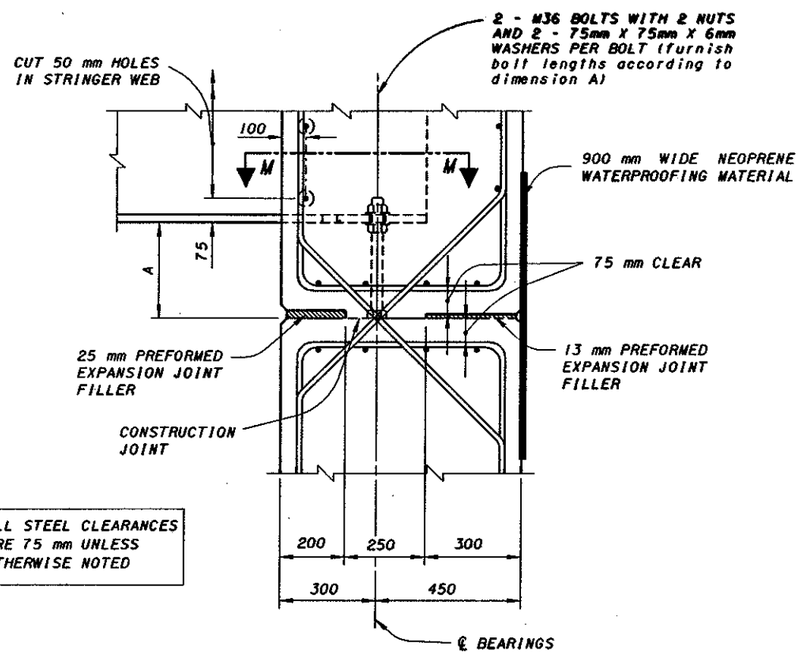


SECTION THRU PIER



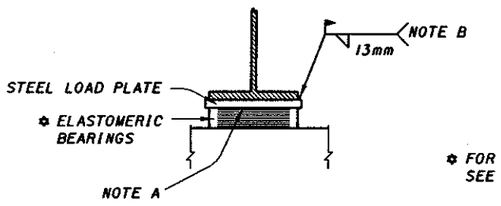
◕ CLEARANCE SHOWN FOR CRUSHED AGGREGATE SLOPE PROTECTION

SECTION THRU ABUTMENT



DETAIL X

ALL STEEL CLEARANCES ARE 75 mm UNLESS OTHERWISE NOTED



SECTION L-L

✡ FOR BEARING DESIGN DETAILS SEE STRUCTURE PLANS

RECOMMENDED PIER BEARING

PIER BEARING NOTES

STEEL LOAD PLATE : UNLESS OTHERWISE SPECIFIED, STEEL LOAD PLATE MATERIAL SHALL BE THE SAME AS THE ATTACHED STRUCTURAL STEEL AND BE SIMILARLY CLEANED AND COATED.

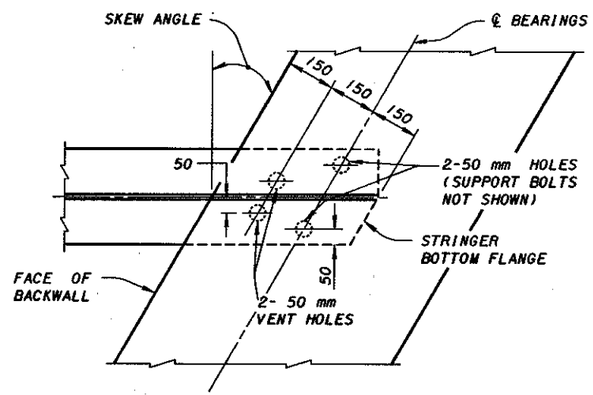
NOTE A : BEARING PARTS SHALL BE VULCANIZE BONDED TOGETHER UNDER HEAT AND PRESSURE.

NOTE B: WELDING SHALL BE CONTROLLED SO THAT THE STEEL LOAD PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300° F AS DETERMINED BY USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.

ABUTMENT NOTES

LIMITATIONS: THIS DESIGN IS INTENDED FOR SITES WHERE THE PROBABILITY OF SETTLEMENT IS REMOTE, FOR SYMMETRICAL UNCURVED STRUCTURES WITH SKEWS NOT GREATER THAN 30° AND SUM OF SPANS NOT GREATER THAN 75.0 m. IT MAY BE USED FOR UNSYMMETRICAL SPANS PROVIDED THAT EXPANSION BEARINGS ARE USED AT PIERS OR THAT PIERS AT FIXED BEARINGS ARE DESIGNED FOR THE FORCES INDUCED BY UNBALANCED THERMAL MOVEMENTS. WHERE FIXED, RIGID PIERS ARE USED, THE MAXIMUM BRIDGE EXPANSION LENGTH SHALL BE 75.0 m.

BRIDGE SEAT CONSTRUCTION JOINT: SHALL BE STRAIGHT BETWEEN ENDS OF BACKWALL.



SECTION M-M

NEOPRENE PLACEMENT

INSTALL A 900 mm WIDE STRIP, 2.5 mm THICK, GENERAL PURPOSE, HEAVY DUTY NEOPRENE SHEET WITH NYLON FABRIC REINFORCEMENT AT LOCATIONS SHOWN IN THE PLANS. SECURE THE 1 METER WIDE NEOPRENE SHEETING TO THE CONCRETE WITH 32 X 3.0 mm (LENGTH X SHANK DIAMETER) GALVANIZED BUTTON HEAD SPIKES THROUGH A 25 mm OUTSIDE DIAMETER, 3mm GALVANIZED WASHER. MAXIMUM FASTENER SPACING IS 225 mm. OTHER SIMILAR GALVANIZED DEVICES WHICH WILL NOT DAMAGE EITHER THE NEOPRENE OR THE CONCRETE MAY BE USED SUBJECT TO THE APPROVAL OF THE ENGINEER.

CENTER THE NEOPRENE STRIPS ON ALL JOINTS. FOR HORIZONTAL JOINTS, SECURE THE HORIZONTAL NEOPRENE STRIP BY USING A SINGLE LINE OF FASTENERS, STARTING AT 150 mm (+/-) FROM THE TOP OF THE NEOPRENE STRIP. FOR THE VERTICAL JOINTS SECURE THE VERTICAL NEOPRENE STRIP BY USING A SINGLE VERTICAL LINE OF FASTENERS, STARTING AT 150 mm (+/-) FROM THE VERTICAL EDGE OF THE NEOPRENE STRIP NEAREST TO THE CENTERLINE OF ROADWAY. FOR VERTICAL JOINTS, INSTALL 2 ADDITIONAL FASTENERS AT 150 mm CENTER TO CENTER ACROSS THE TOP OF THE NEOPRENE STRIP ON THE SAME SIDE OF THE VERTICAL JOINT AS THE SINGLE VERTICAL ROW OF FASTENERS IS LOCATED.

THE VERTICAL NEOPRENE STRIPS SHOULD OVERLAP THE HORIZONTAL STRIPS. LAPS IN THE LENGTH OF THE HORIZONTAL STRIPS DUE TO MATERIAL MANUFACTURING SHALL BE AT LEAST 300 mm IN LENGTH, IF NOT VULCANIZED OR ADHESIVED, OR 150 mm IN LENGTH IF THE LAP IS VULCANIZED OR ADHESIVED NO LAPS ARE ACCEPTABLE IN VERTICALLY INSTALLED NEOPRENE STRIPS.

PAYMENT FOR LABOR, MATERIALS AND INSTALLATION OF THESE ITEMS SHALL BE INCLUDED IN ITEM 511 CLASS C CONCRETE, ABUTMENT, AS PER PLAN.

DESIGN AGENCY
BUREAU OF BRIDGES AND STRUCTURAL DESIGN

STATE OF OHIO DEPARTMENT OF TRANSPORTATION
Richard L. Engel — ENGINEER OF BRIDGES
5-20-95 DATE

REVISIONS	DESIGNED MPB/ML.M	DRAWN AJM/ML.M	CHECKED RLD/JS	REVIEWED WJJ/LMW
				ICD-1-82M

STANDARD
INTEGRAL CONSTRUCTION DETAILS
STEEL STRINGER STRUCTURES
ON FLEXIBLE ABUTMENTS