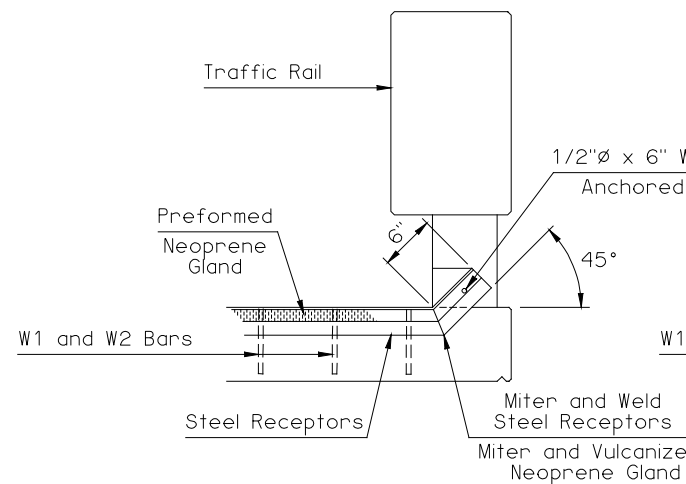
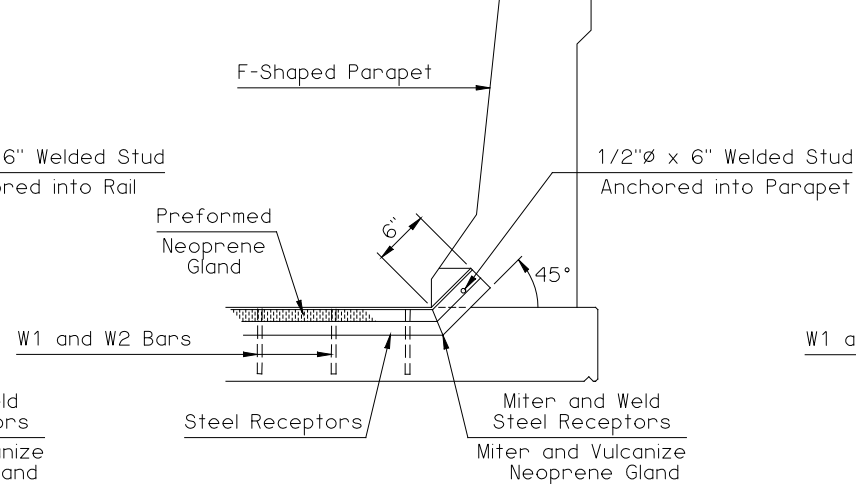


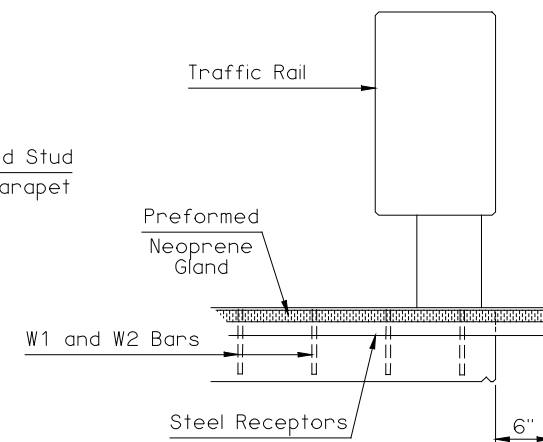
ELEVATION
WITHOUT OPENINGS



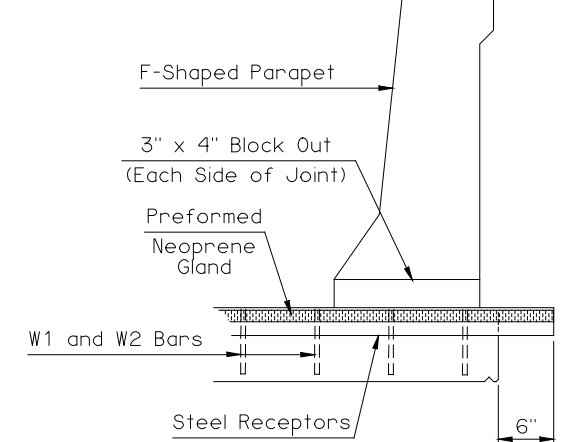
SECTION AT TRAFFIC RAIL
WITHOUT OPENINGS



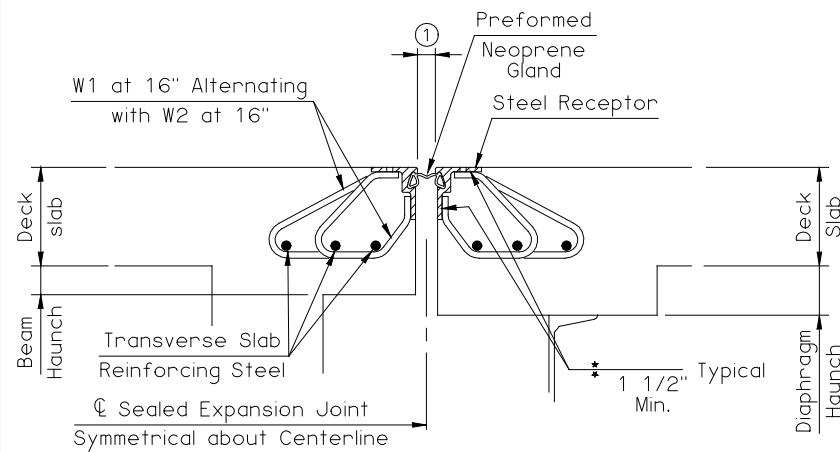
SECTION AT F-SHAPED PARAPET
WITHOUT OPENINGS



SECTION AT TRAFFIC RAIL
WITH OPENINGS



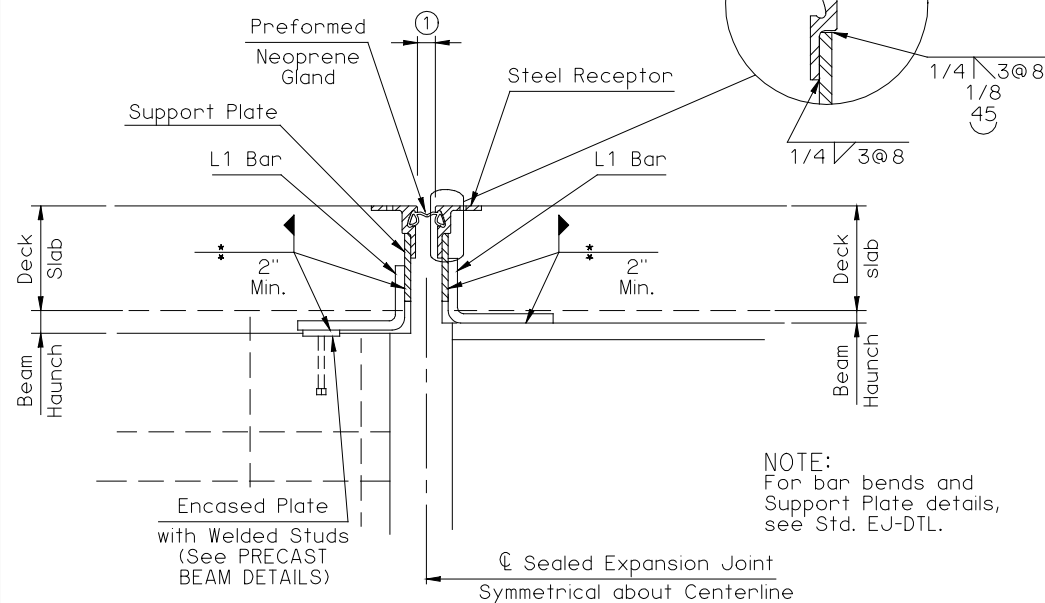
SECTION AT F-SHAPED PARAPET
WITH OPENINGS



P.C. BEAMS

ROLLED BEAMS AND
PLATE GIRDERS

SECTION A-A



P.C. BEAMS

ROLLED BEAMS AND
PLATE GIRDERS

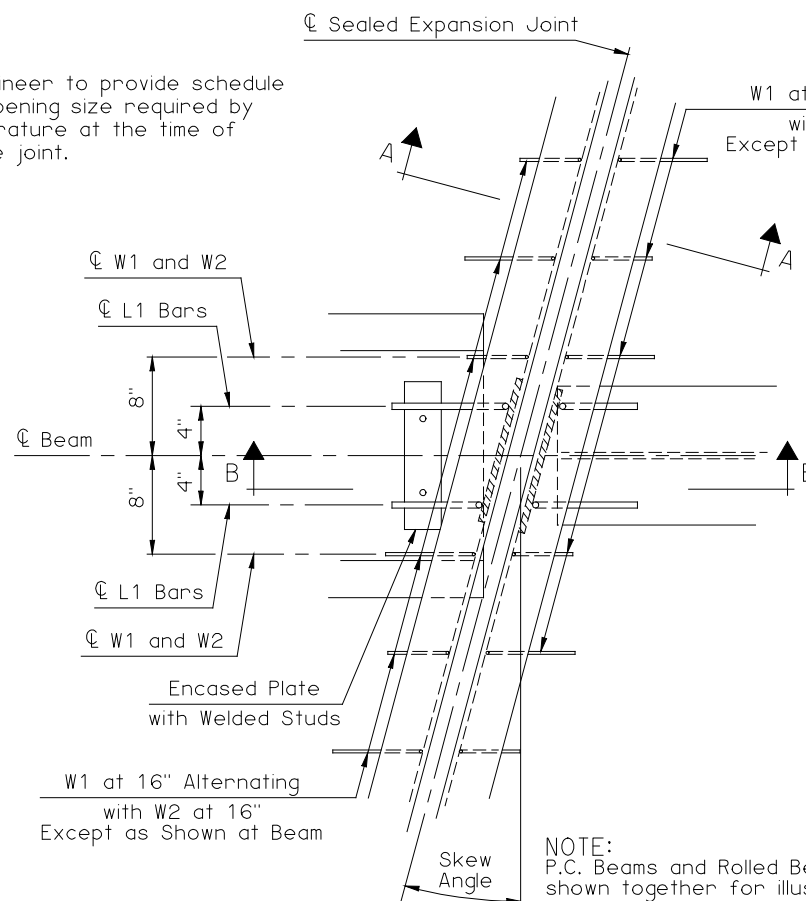
SECTION B-B

NOTE:
For bar bends and
Support Plate details,
see Std. EJ-DTL.

BEAM TYPE	TOTAL EXPANSION LENGTH				
	100'	200'	300'	400'	500'
CONCRETE	17.3°F	8.7°F	5.8°F	4.3°F	3.5°F
STEEL	16.0°F	8.0°F	5.3°F	4.0°F	3.2°F

② Table is for assisting in determining joint opening size. A nominal 2" joint opening will correspond to 43°F for concrete beams and 60°F for steel beams. Decrease opening as temperature rises and increase as temperature drops. Change in bridge length is measured parallel to beams. For change in joint opening size measured normal to joint, divide temperature change by cosine of skew angle.

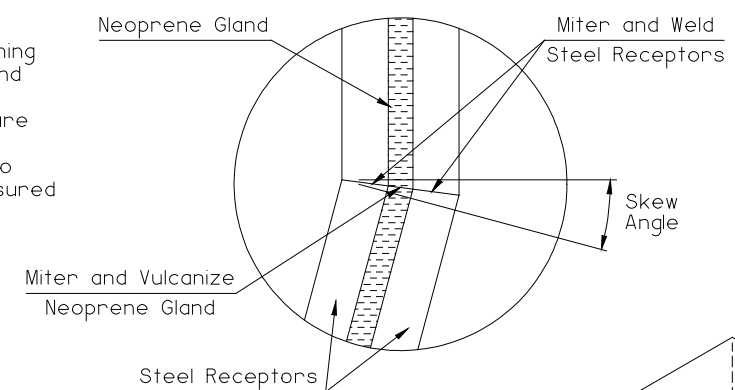
① Design Engineer to provide schedule of joint opening size required by the temperature at the time of setting the joint.



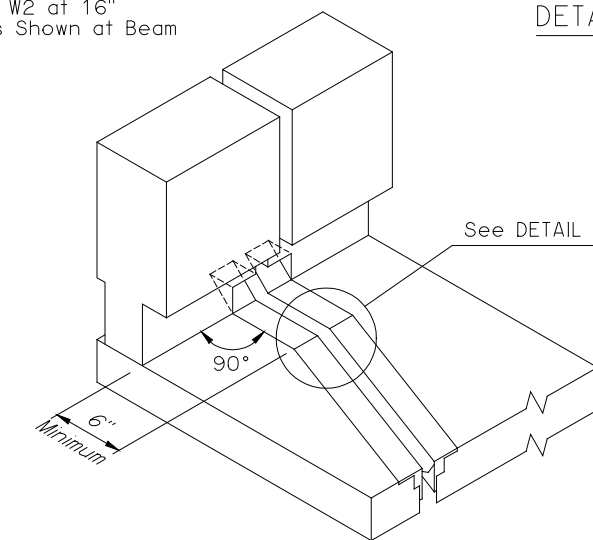
P.C. BEAMS

ROLLED BEAMS AND
PLATE GIRDERS

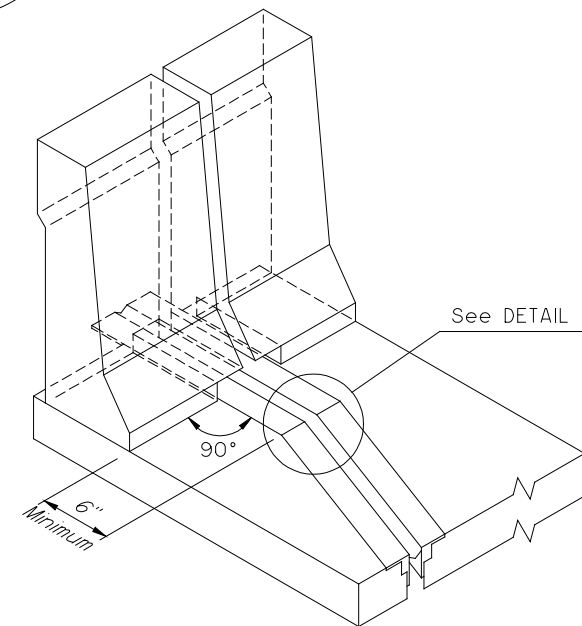
PLAN



DETAIL A



PICTORIAL VIEW OF SEALED JOINT AT
TRAFFIC RAIL WITHOUT OPENINGS
(F-SHAPED PARAPET SIMILAR)



PICTORIAL VIEW OF SEALED JOINT AT
F-SHAPED PARAPET WITH OPENINGS
(TRAFFIC RAIL SIMILAR)

APPROVED BY BRIDGE ENGINEER *Robert J. ...* DATE 3-7-08

OKLAHOMA DEPT. OF TRANSPORTATION
BRIDGE STANDARD (ENGLISH)

SKewed SEALED EXPANSION JOINT
CONVENTIONAL

1999 SPECIFICATIONS

EJ-SK

02E

B-09E