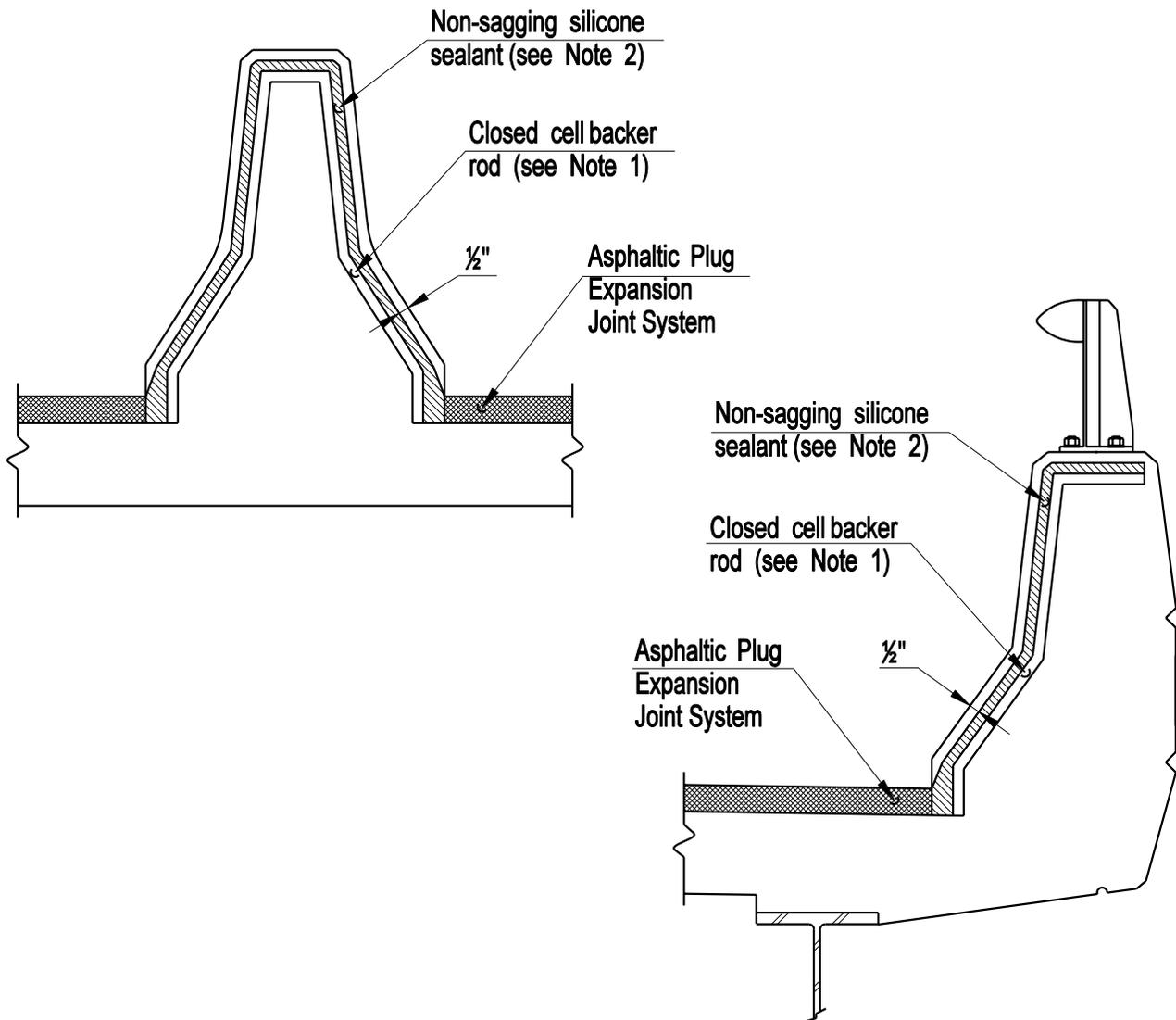


DESIGN INFORMATION

- 1. Asphaltic Plug Expansion System shall be used at fixed and expansion joints with computed movements from 0" to 1 1/2" based on a moderate climate in accordance with AASHTO.**
- 2. Asphaltic Plug Expansion joints shall be installed when the ambient air temperature is between 40° F and 80° F.**

NOTES:

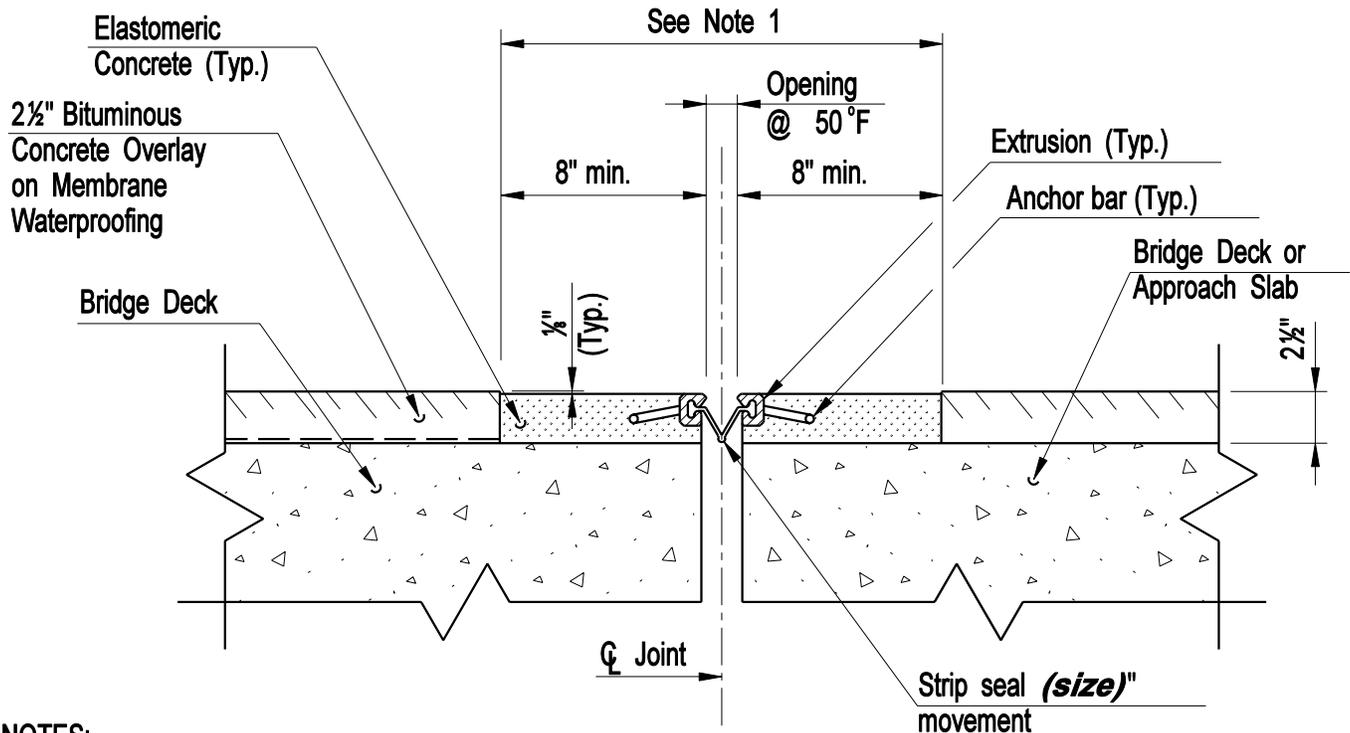
3. Remove new bituminous concrete overlay and membrane waterproofing. Replace with Asphaltic Plug Expansion System. To be paid for under the item "Asphaltic Plug Expansion Joint System". (See Special Provision)



ASPHALTIC PLUG EXPANSION JOINT TREATMENT AT PARAPETS AND MEDIAN BARRIER

NOTES:

- 1: The Closed Cell Backer Rod shall be placed a minimum of 2" from the outside face of parapets and median barriers.
- 2: The non-sagging silicone sealant shall be placed on the backer rod 1/2" thick. At the gutter, the silicone sealant shall be placed flush with the outside face of concrete.
- 3: Prior to installing the silicone sealant, clean joint sides by sandblasting. Dust shall be removed by the method approved by the Engineer. This work shall be paid for under the item "Asphaltic Plug Expansion Joint System". (see special provisions)

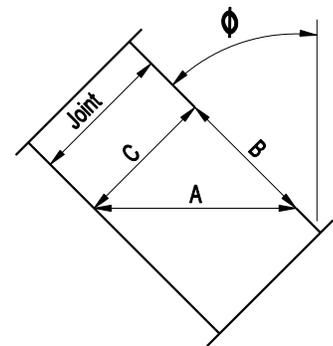


NOTES:

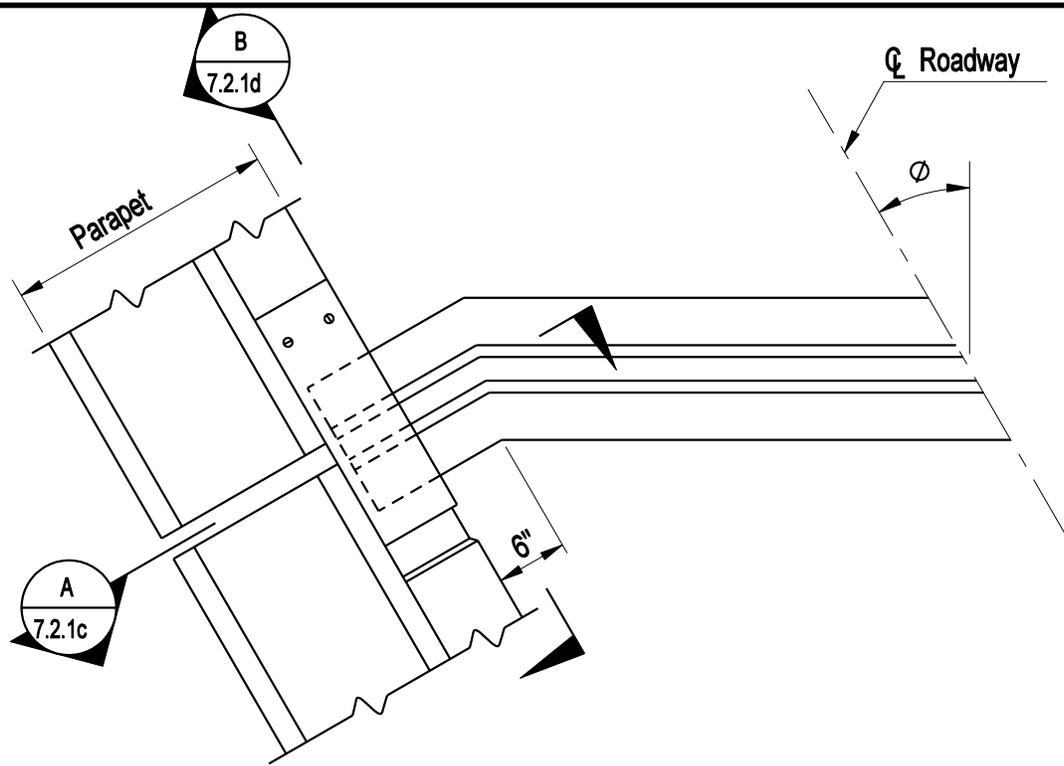
1. Remove new bituminous concrete overlay and membrane waterproofing and replace with Elastomeric Concrete Expansion Joint System. To be paid for under the item "Elastomeric Concrete Expansion Joint System". (See Special Provision)

DESIGN INFORMATION:

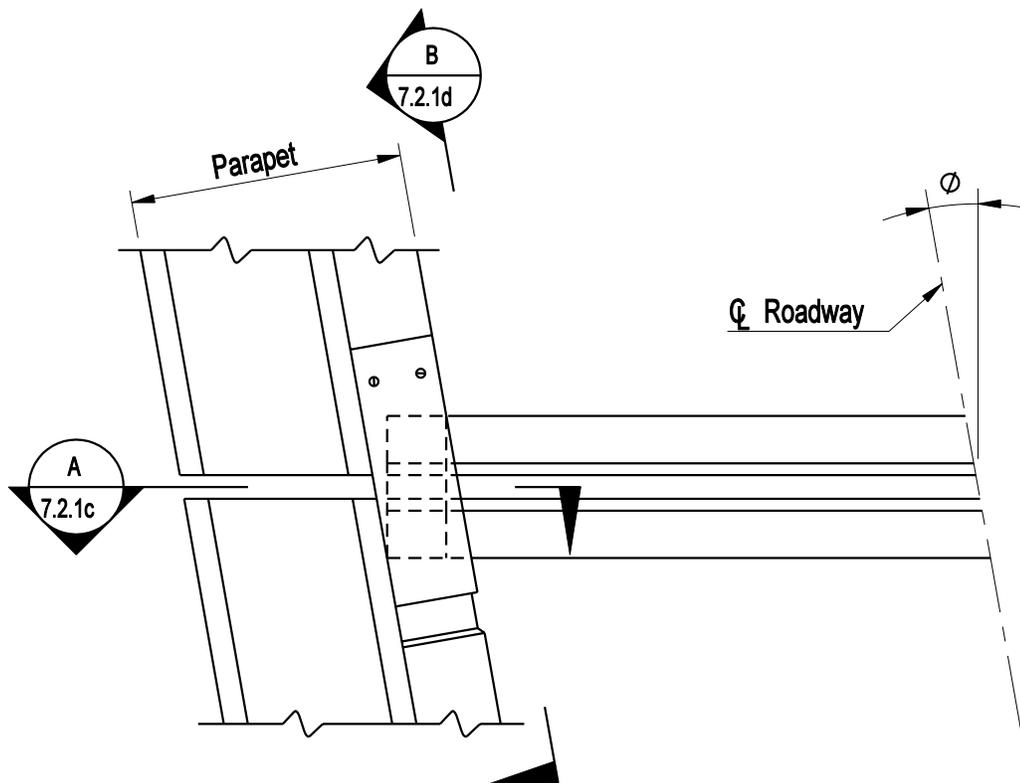
2. **Elastomeric concrete headers with strip seals shall be used at expansion joints with computed movements between 3" and 4".**
3. **The temperature range used for computation of movement shall be based on a moderate climate in accordance with AASHTO.**
4. **The strip seal movement capacity and opening @ 50° F shall be determined by the Designer, in-accordance with approved product information.**
5. **The Designer shall consider the effects of skew when determining the strip seal movement capacity. The movement rating of the gland shall be greater than or equal to the computed movements along the skew, normal to the joint or along the center line of bridge.**



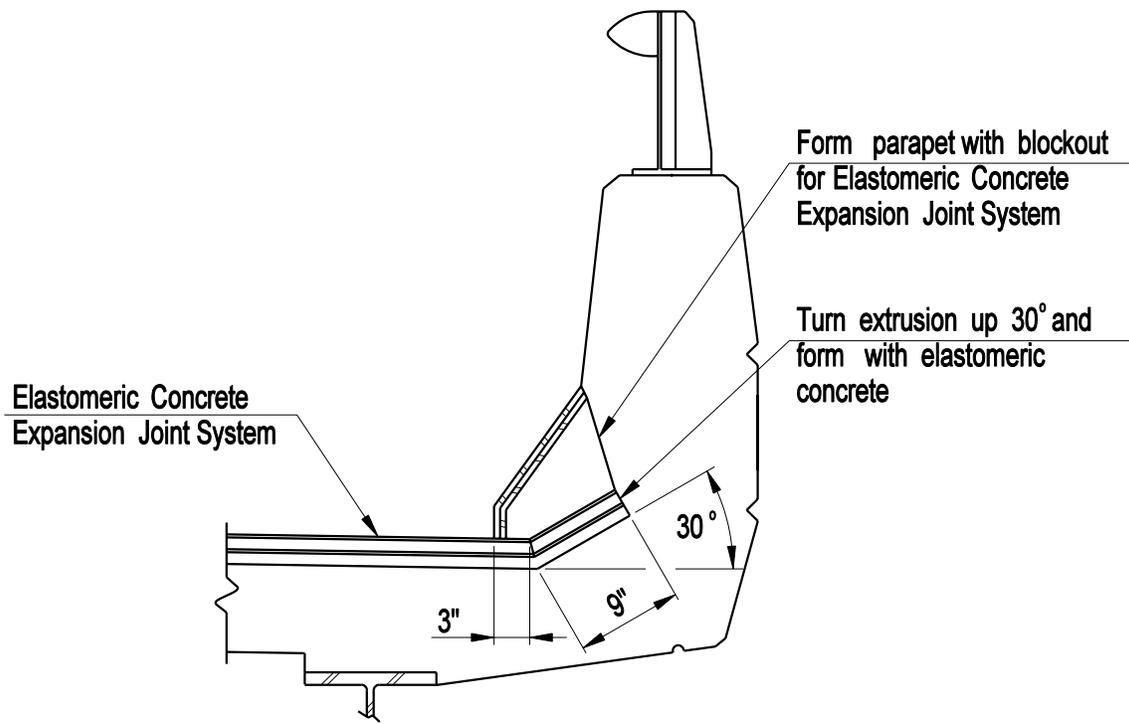
\emptyset = Skew Angle
 A = movement along C Bridge
 B = movement along Skew $B = A \sin \emptyset$
 C = movement normal to joint $C = A \cos \emptyset$



JOINT TREATMENT @ GUTTERLINE $\phi > 35^\circ$



JOINT TREATMENT @ GUTTERLINE $\phi \le 35^\circ$

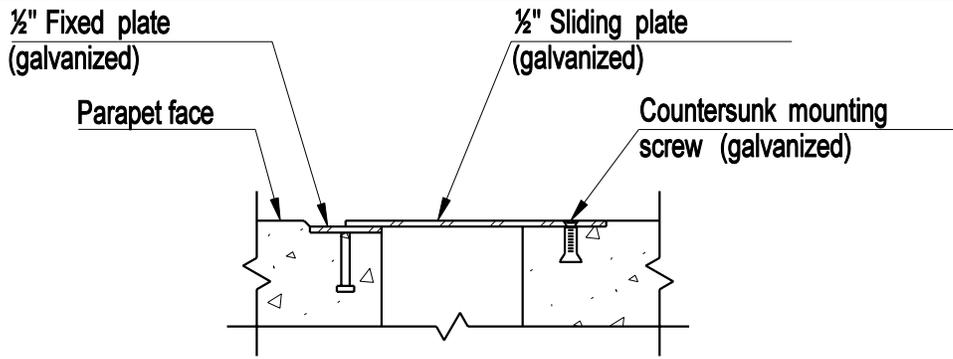


SECTION A

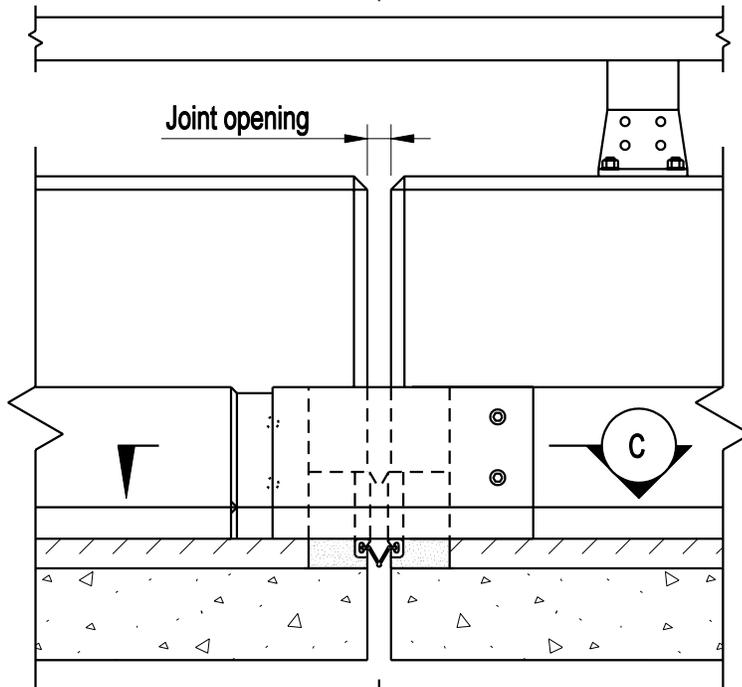
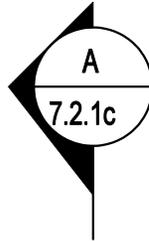
JOINT TREATMENT AT CONCRETE PARAPET

DESIGN INFORMATION

1. *This plate shall be used in conjunction with Plate 7.2.1b and 7.2.1d.*



SECTION C



VIEW B

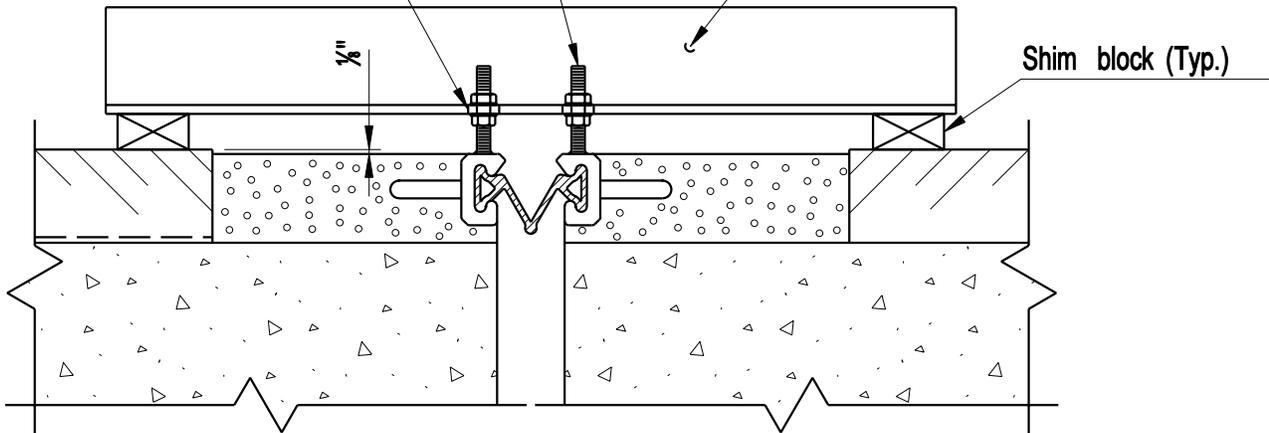
JOINT TREATMENT AT CONCRETE PARAPET

Threaded stud tack welded to top
of extrusions (Remove after pour)

Provide slotted holes for
temperature adjustment

Temporary support angle
3'- 0" c. c. (min.)

Shim block (Typ.)



INSTALLATION DETAIL

**CONNECTICUT
BRIDGE DESIGN
MANUAL**

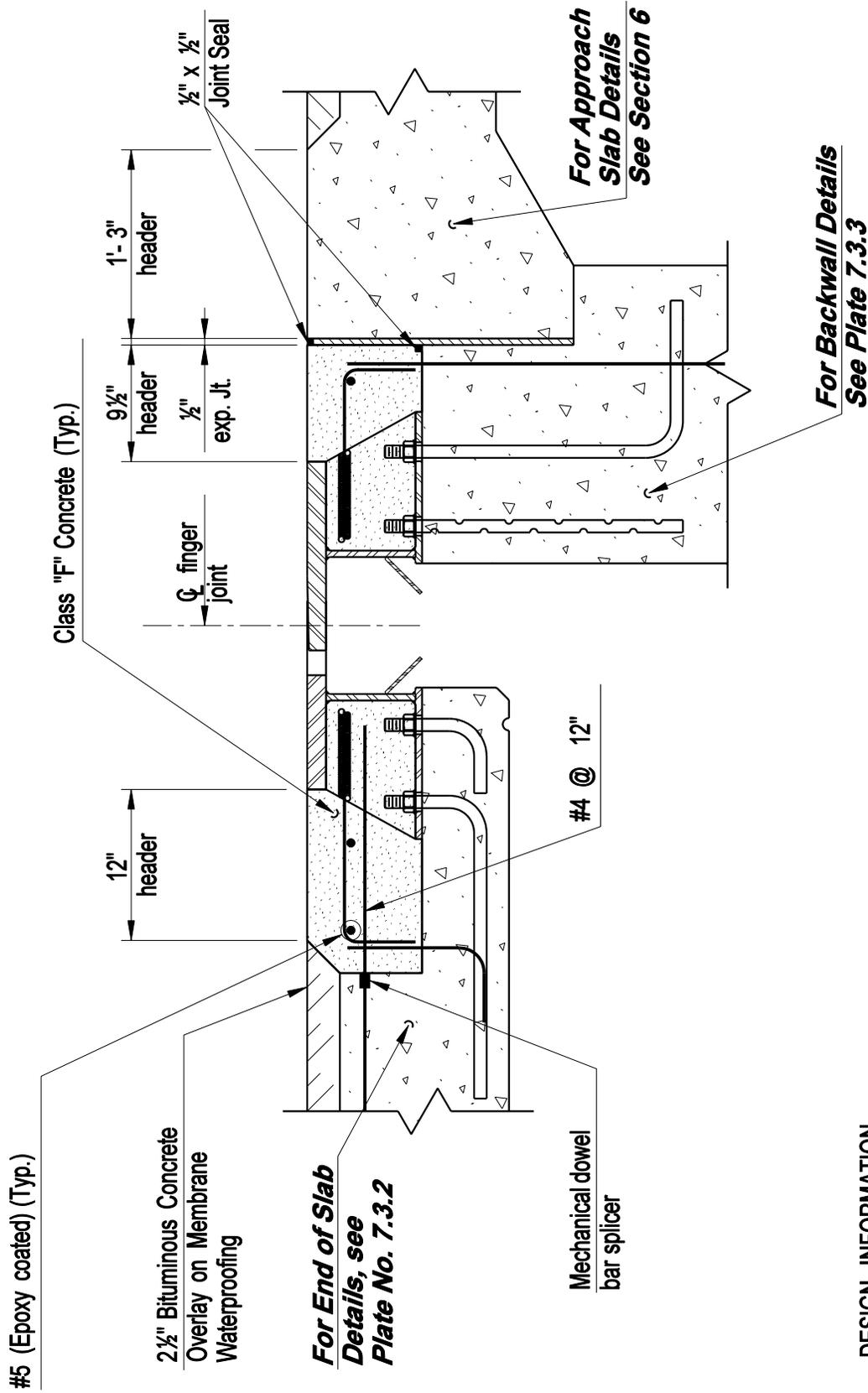
**ELASTOMERIC CONCRETE
EXPANSION JOINT SYSTEM**

Issue Date: 10/03

Revision Date:

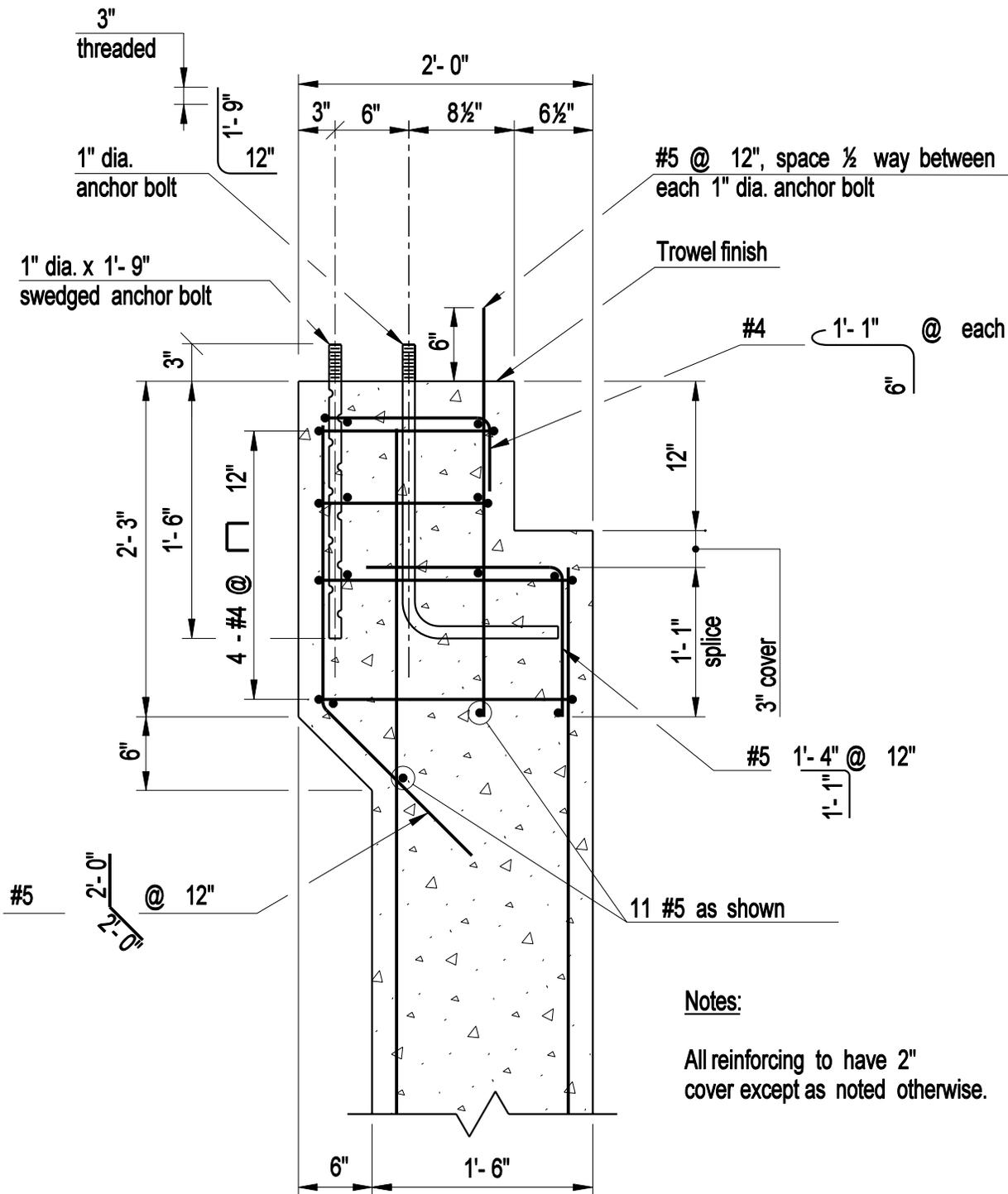
Plate Number:

7.2.1e



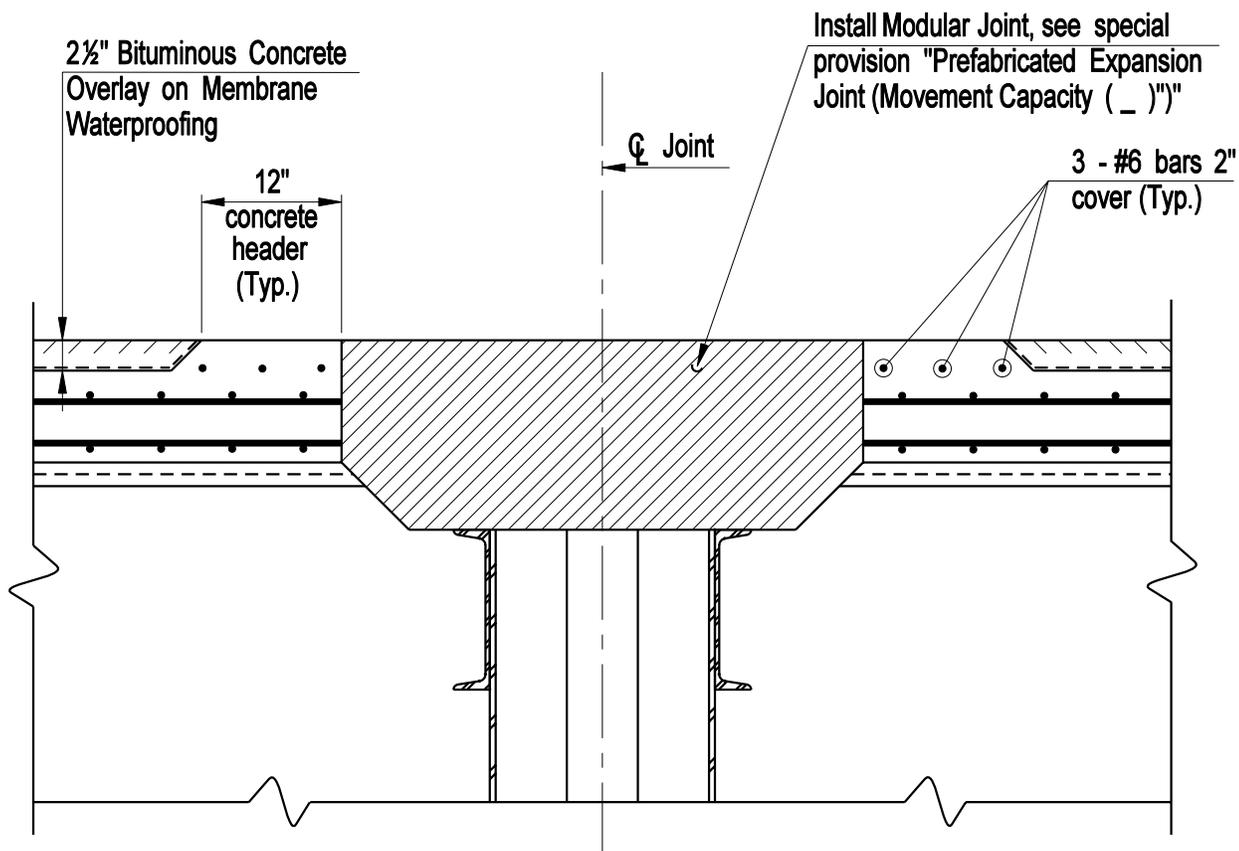
DESIGN INFORMATION

1. *Finger joints to be used for joint movement greater than 4" at pedestal type abutments only, (See Plates 3.1.2a thru 3.1.2e)*
2. *All structural steel, weldable bars and anchor bolts shall be included in the pay item for "Finger Joint".*



Notes:

All reinforcing to have 2" cover except as noted otherwise.



TYPICAL SECTION

NOTES:

See special provision "Prefabricated Expansion Joint (Movement Capacity (_))".

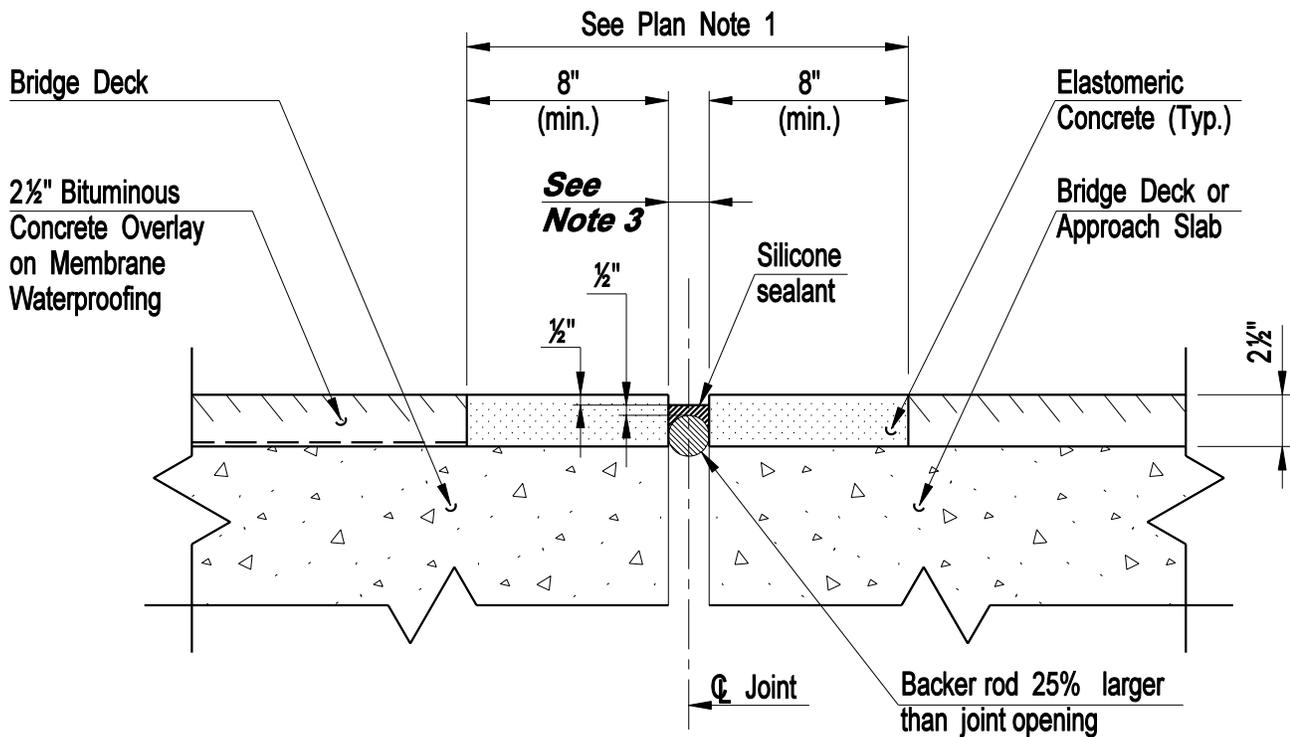
DESIGN INFORMATION:

The temperature range used for computation of movement shall be based on a moderate climate in accordance with AASHTO.

The required movement capacity of each joint shall be determined by the Designer and shown on the plans.

The contract plans shall show a blocked out area for the Modular Joint. The manufacturer will be responsible for the joint and anchorage details in accordance with the special provisions.

Modular joints should be used for joint movements greater than 4" at piers.

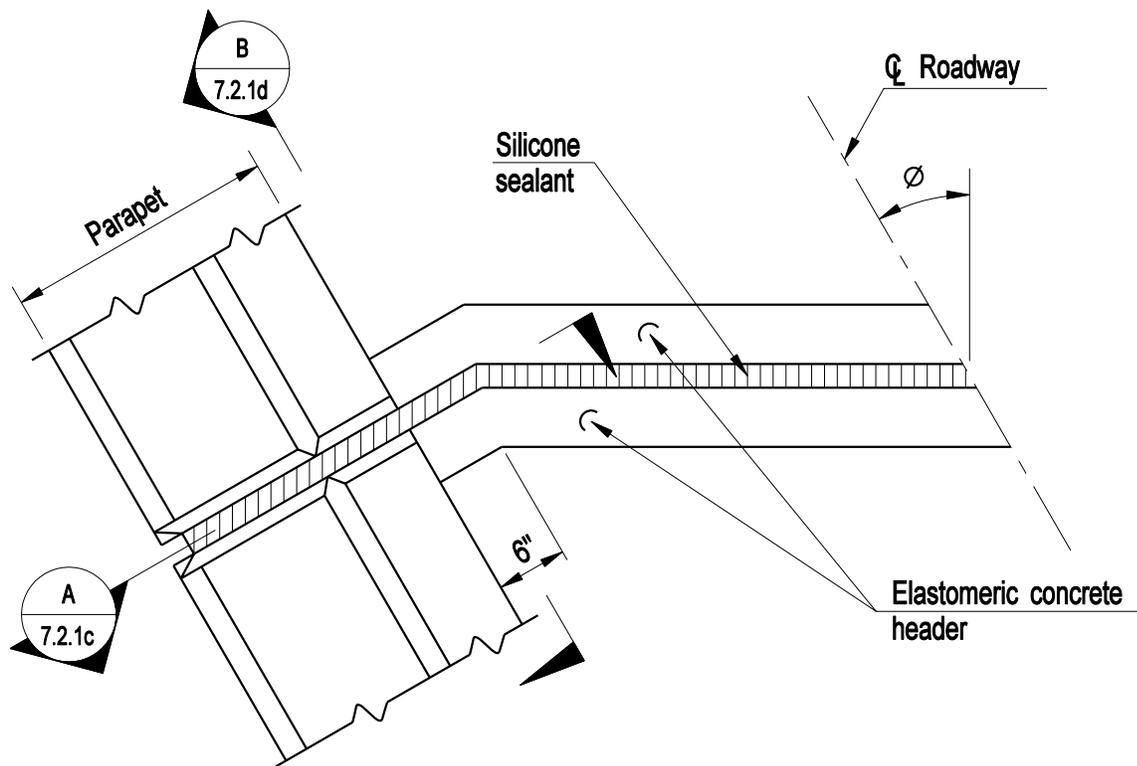


PLAN NOTES:

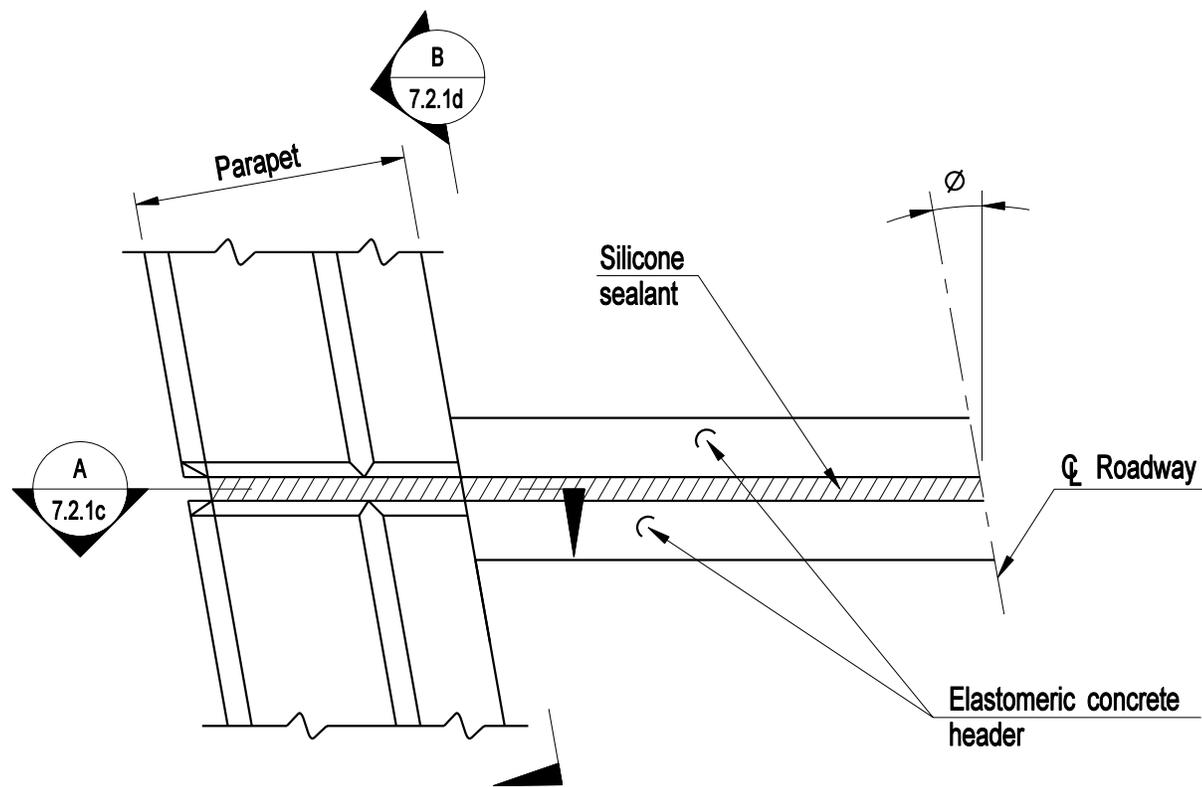
1. Remove new bituminous concrete overlay and membrane waterproofing and replace with Silicone Expansion Joint System. To be paid for under the item "Silicone Expansion Joint System". (See Special Provision)

DESIGN INFORMATION:

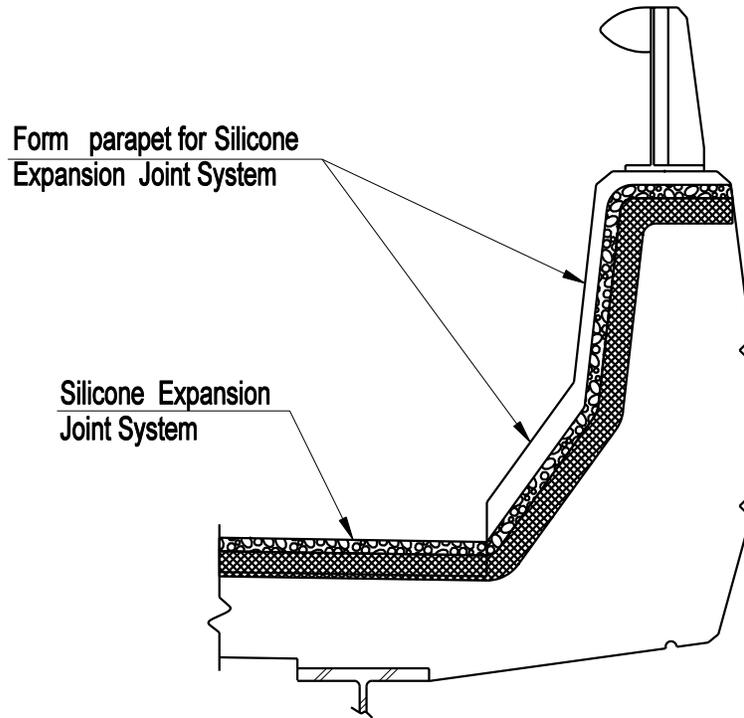
1. ***Silicone Expansion Joint System shall be used at expansion joints with computed movements between 1 1/2" and 3".***
2. ***The temperature range used for computation of movement shall be based on a moderate climate in accordance with AASHTO.***
3. ***The expansion joint sealant movement capacity and opening @ 50° F shall be determined by the Designer, in-accordance with approved product information.***



JOINT TREATMENT @ GUTTERLINE $\phi > 35^\circ$



JOINT TREATMENT @ GUTTERLINE $\phi \le 35^\circ$

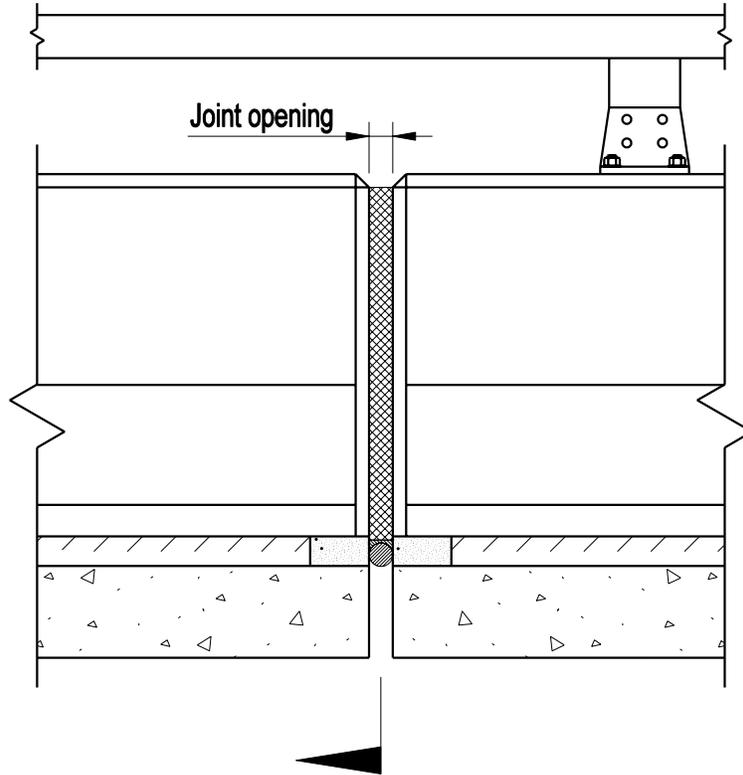
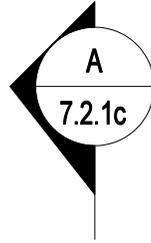


SECTION A

JOINT TREATMENT AT CONCRETE PARAPET

DESIGN INFORMATION

- 1. This plate shall be used in conjunction with Plate 7.5.1b and 7.5.1d.***



JOINT TREATMENT AT CONCRETE PARAPET

**CONNECTICUT
BRIDGE DESIGN
MANUAL**

**SILICONE
EXPANSION
JOINT SYSTEM**

Issue Date: 10/03

Revision Date:

Plate Number:
7.5.1d