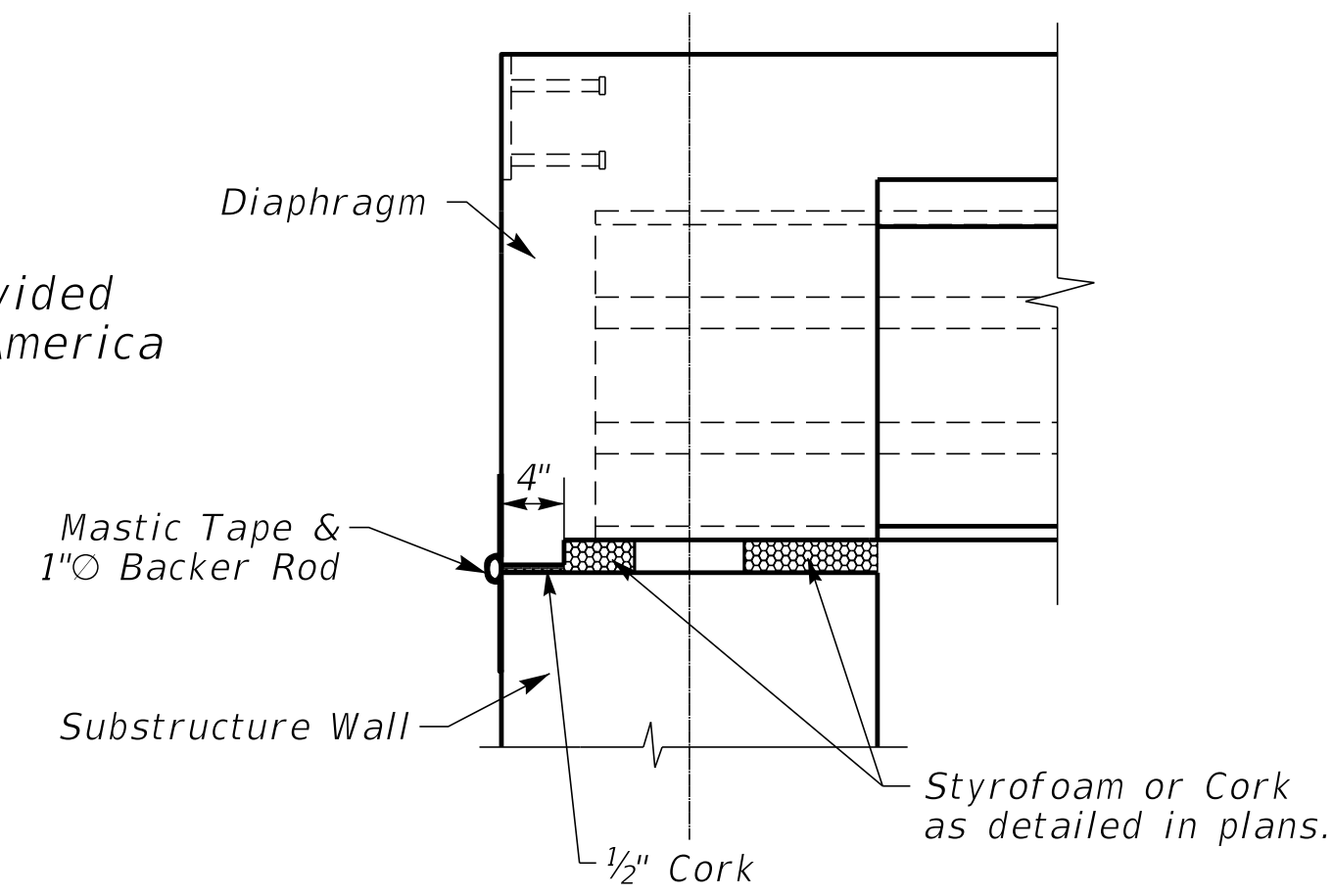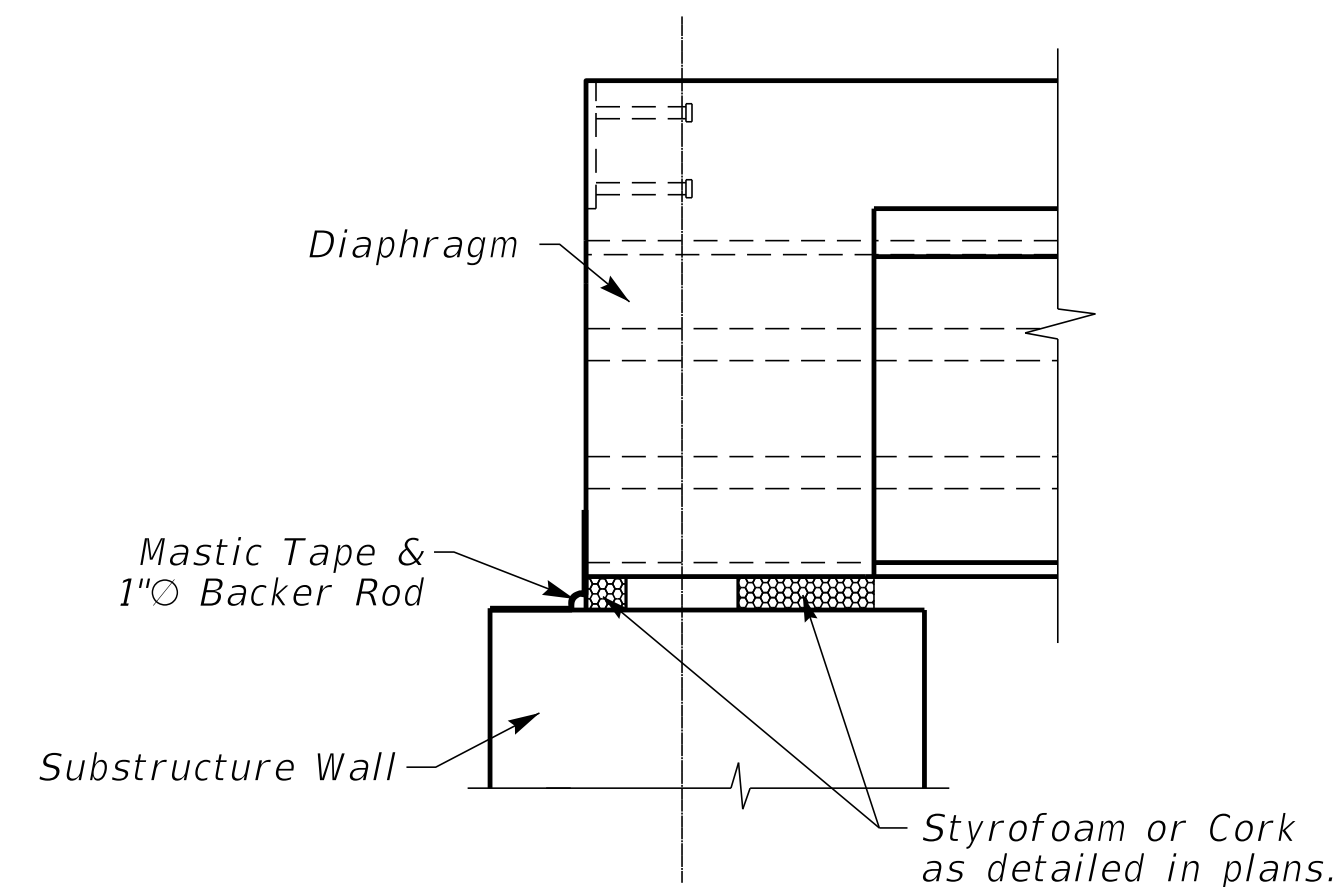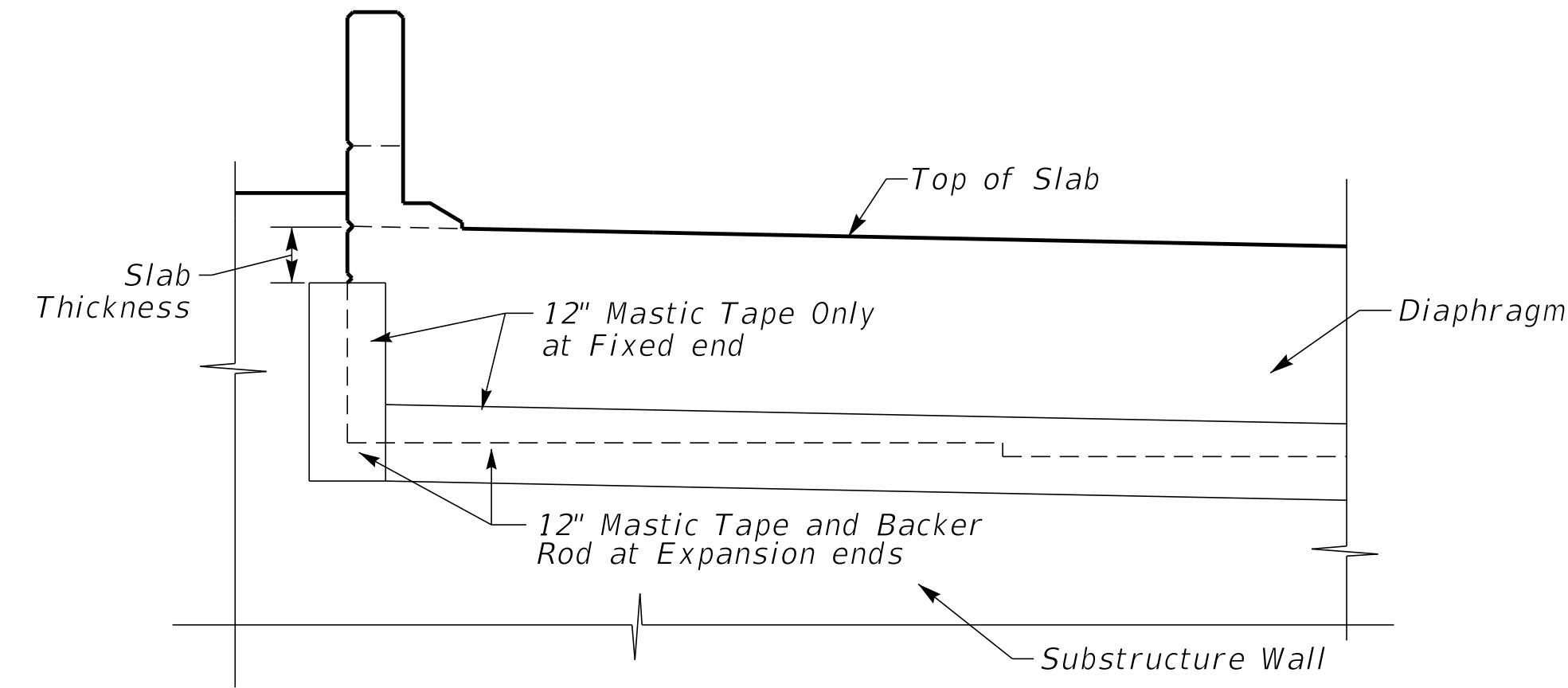*Expansion Joint Material:
AASHTO M153
Type-I Sponge Rubber
Type-II Cork permitted with contractor provided
documentation that the Build America Buy America
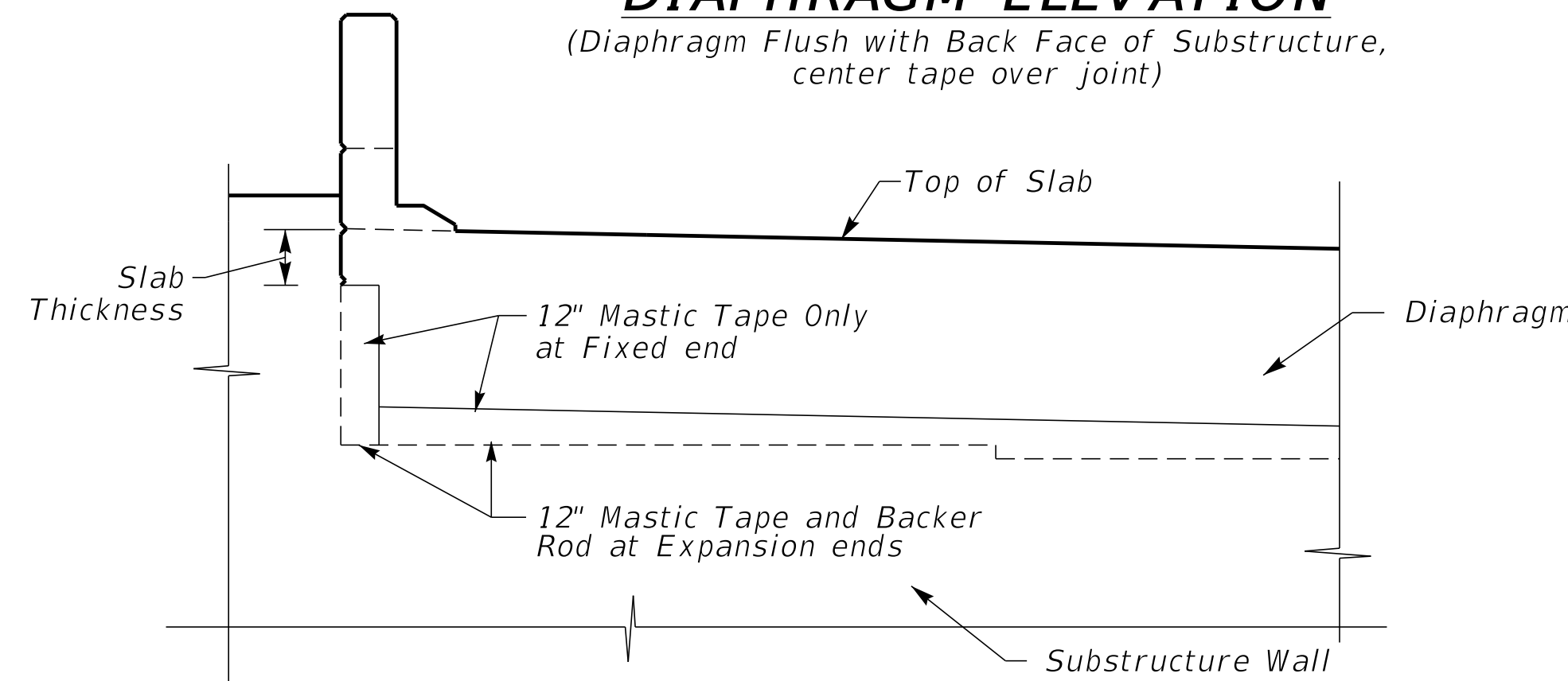requirments are satisfied.

Diaphragm

Mastic Tape &
1"⌀ Backer Rod

Substructure Wall

4"

½" Cork

Styrofoam or Cork
as detailed in plans.

EXPANSION END
(Flush Diaphragm and Substructure)

Diaphragm

Mastic Tape &
1"⌀ Backer Rod

Substructure Wall

Styrofoam or Cork
as detailed in plans.

EXPANSION END
(Offset Diaphragm and Substructure)

Top of Slab

Slab
Thickness

12" Mastic Tape Only
at Fixed end

Diaphragm

12" Mastic Tape and Backer
Rod at Expansion ends

Substructure Wall

DIAPHRAGM ELEVATION
(Diaphragm Flush with Back Face of Substructure,
center tape over joint)

Top of Slab

Slab
Thickness

12" Mastic Tape Only
at Fixed end

Diaphragm

12" Mastic Tape and Backer
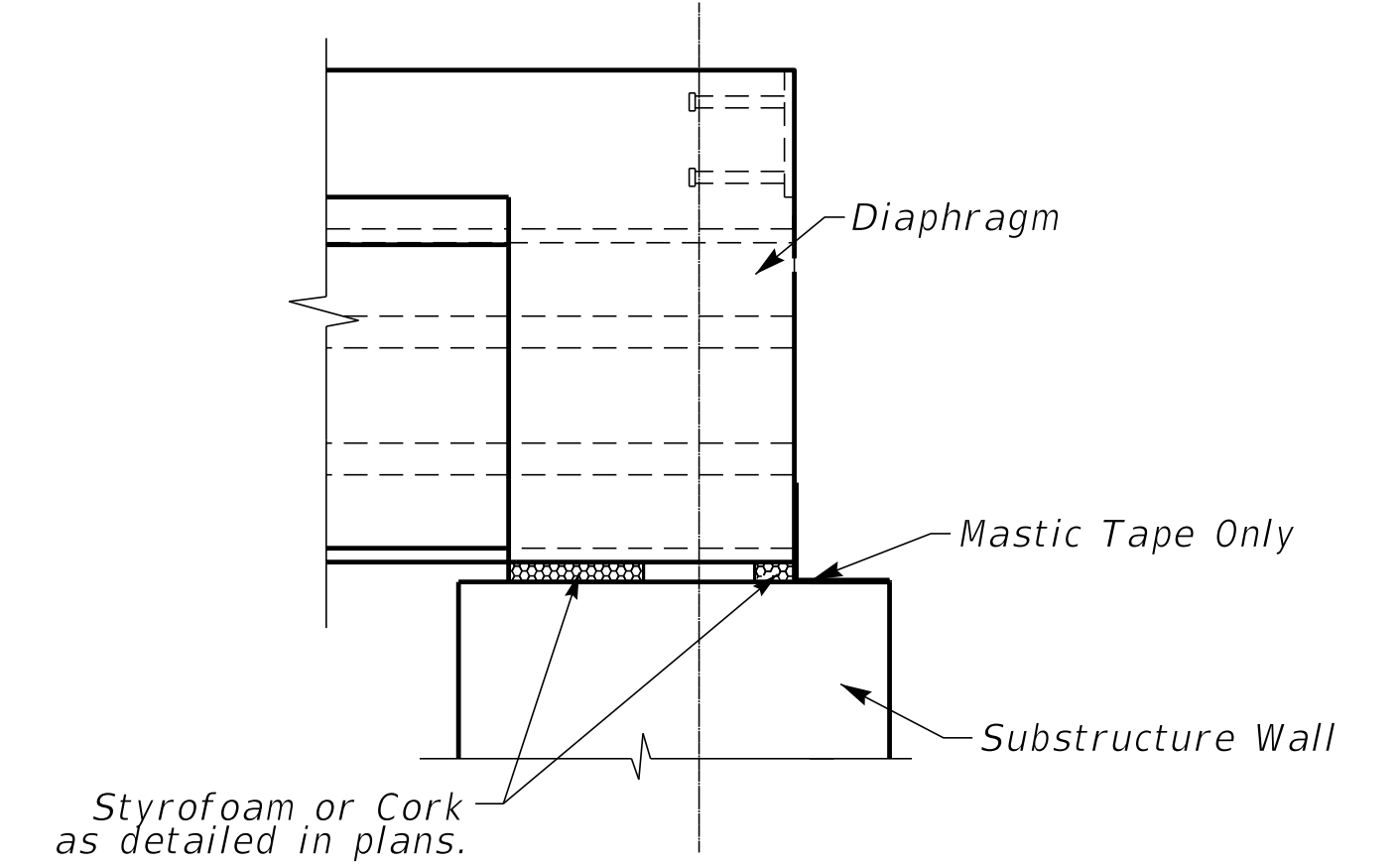Rod at Expansion ends

Substructure Wall

DIAPHRAGM ELEVATION
(Offset Diaphragm and Substructure)

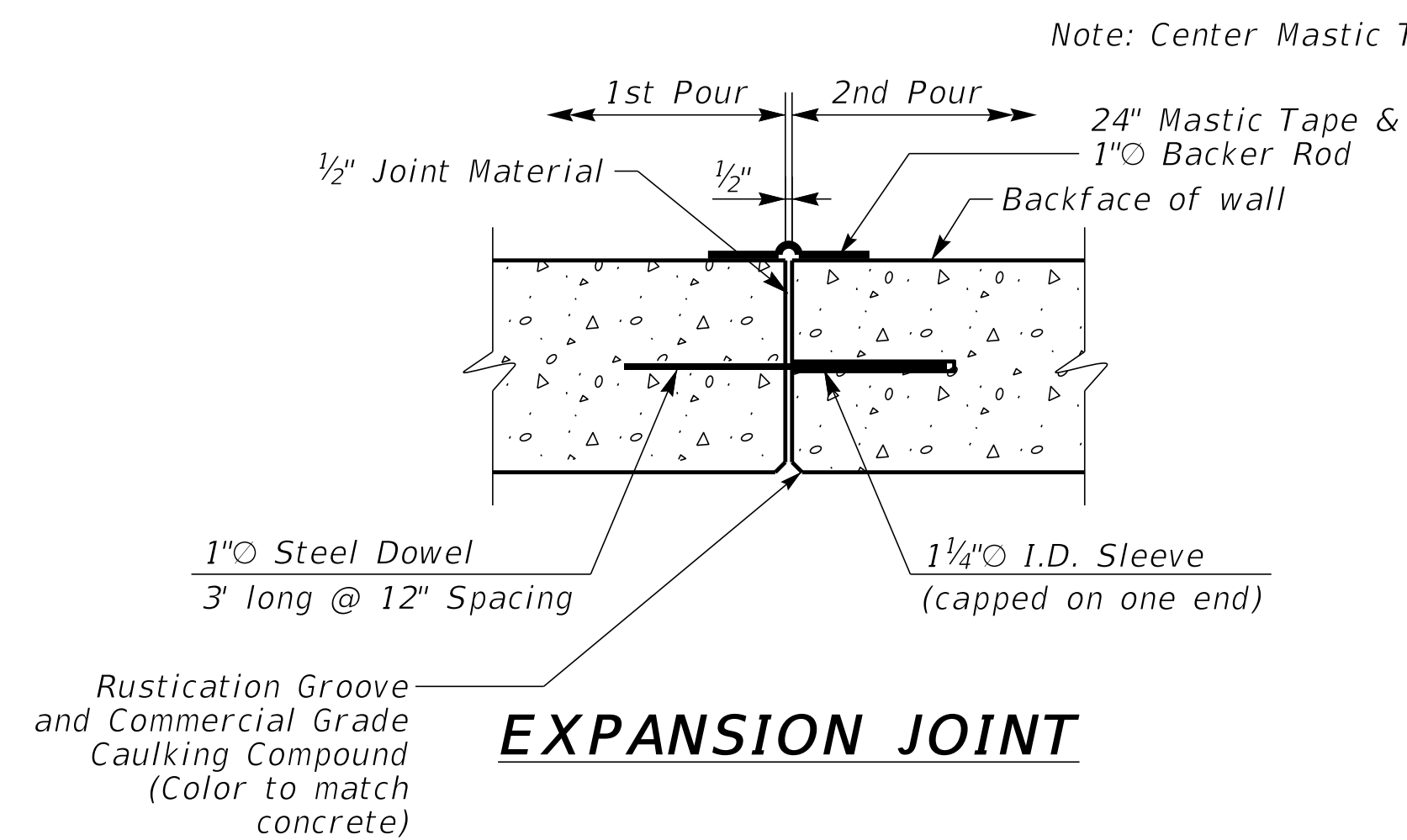**MASTIC TAPE APPLICATION AT BRIDGE ENDS**
The cost of labor, materials, and incidental items for furnishing and installing
Mastic Tape shall be considered incidental to the unit price bid for Concrete
Class 'AA' and no separate measurement or payment shall be made.

Diaphragm

4"

Mastic Tape Only

Substructure Wall

Styrofoam or
Cork as detailed
in plans

½" Cork

FIXED END
(Flush Diaphragm and Substructure)

Diaphragm

Mastic Tape Only

Substructure Wall

Styrofoam or Cork
as detailed in plans.

FIXED END
(Offset Diaphragm and Substructure)

Note: Center Mastic Tape over joint.

1st Pour | 2nd Pour

½" Joint Material
½"

24" Mastic Tape &
1"⌀ Backer Rod
Backface of wall

1"⌀ Steel Dowel
3' long @ 12" Spacing

1¼"⌀ I.D. Sleeve
(capped on one end)

Rustication Groove
and Commercial Grade
Caulking Compound
(Color to match
concrete)

EXPANSION JOINT

1st Pour | 2nd Pour

24" Mastic Tape
Backface of wall

Rustication
Groove

Key formed with 2" x 4"
beveled timber

CONTRACTION JOINT

NOTE:
Maintain 2 inch clearance from ends
of Longitudinal reinforcement to edge
of expansion joint.

MASTIC TAPE APPLICATION AT RETAINING WALLS
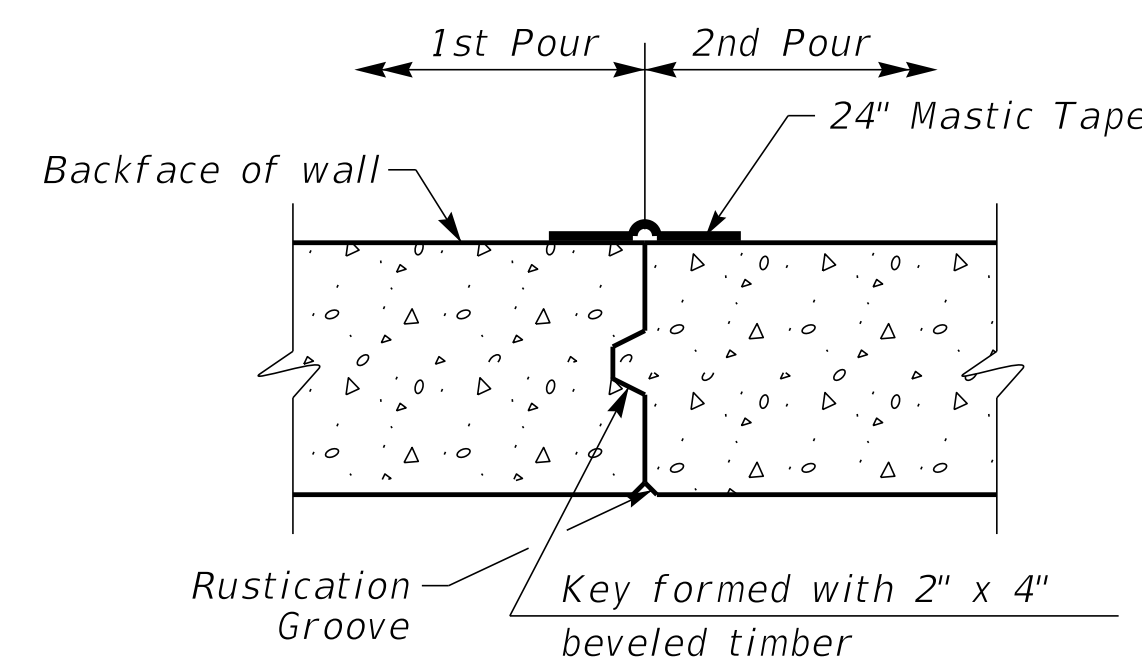
GENERAL NOTES

MASTIC TAPE: Mastic Tape used to seal joints is to meet the requirements of ASTM C-877 Type I, II, or
III. The joint is to be covered with 12-inch wide mastic tape. Prior to application, the joint surface shall
be clean and free of dirt, debris, or deleterious material. Primer, if required by the tape mfgr., shall be
applied for a minimum width of nine inches on each side of the joint.

Mastic Tape shall be either:

EZ-WRAP RUBBER by PRESS-SEAL GASKET CORPORATION,
SEAL WRAP by MAR MAC MANUFACTURING CO. INC. ,
CADILLOC by the UP RUBBER CO. INC.
or approved equal.

Mastic Tape shall cover the joint continuously unless otherwise shown in the plans. Mastic Tape shall be
spliced by lapping a minimum of six inches and in accordance with the mfgrs. recommendations with the
overlap running downhill.

All preformed expansion joint material, caulking, mastic tape, pipe sleeve and equipment and labor necessary
to complete the joints are incidental to the square foot bid for Retaining Walls.

SUBMITTED _____ 10/25/2024
DIVISION DIRECTOR   DATE