PREFORMED JOINT STRIP SEAL DETAILS
S.N. 023–0024
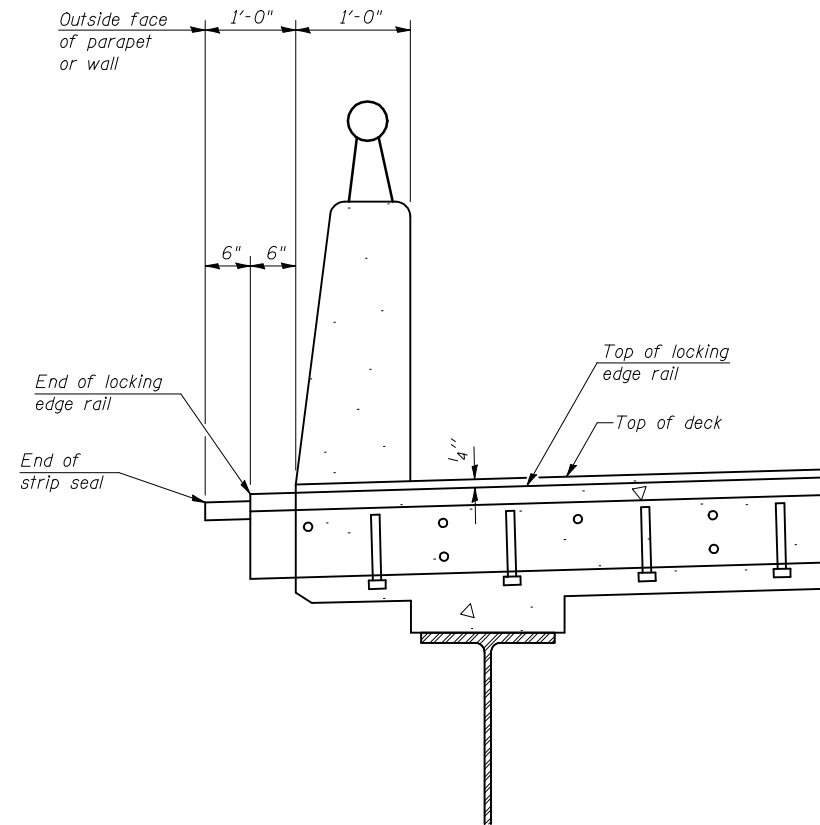
SECTION AT PROPOSED JOINT AT SOUTH ABUTMENT
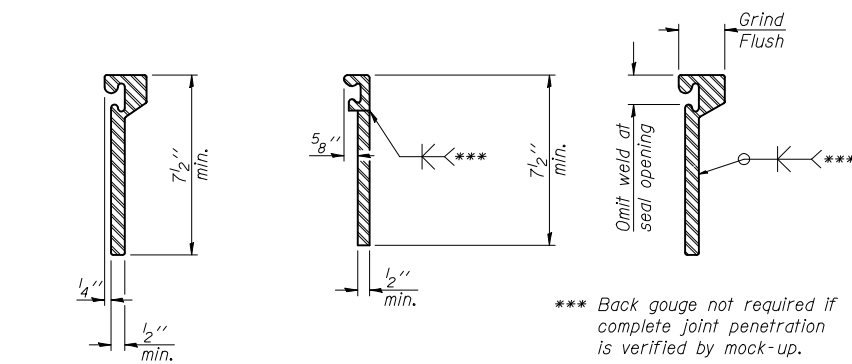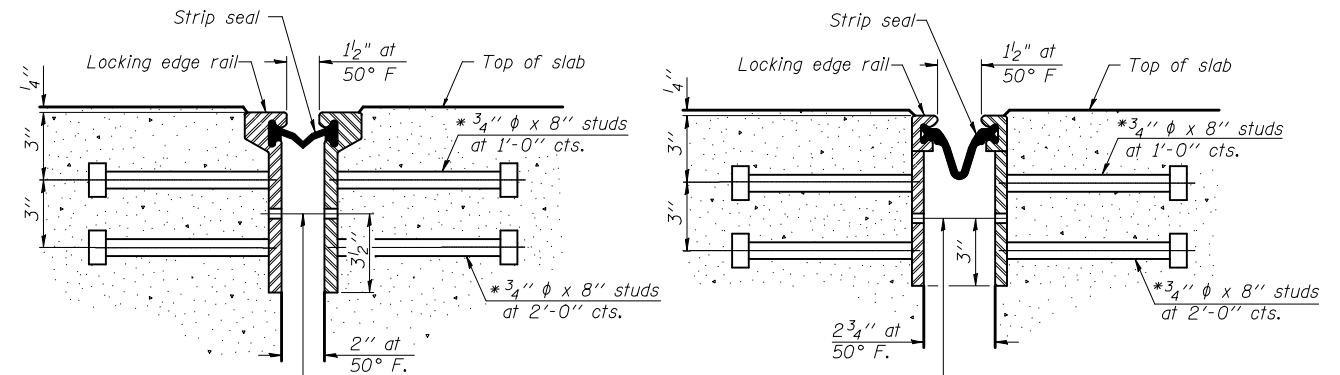
Outside face of parapet or wall

1'-0" 1'-0"

6" 6"

End of locking edge rail

End of strip seal

Top of locking edge rail

Top of deck

$\frac{1}{4}$"

SECTION THRU ROLLED RAIL JOINT

Strip seal

Locking edge rail

$1\frac{1}{2}$" at 50° F

Top of slab

$\frac{1}{4}$"

3"

3"

$3\frac{1}{2}$"

2" at 50° F.

* $\frac{3}{4}$" ⌀ x 8" studs at 1'-0" cts.

* $\frac{3}{4}$" ⌀ x 8" studs at 2'-0" cts.

$\frac{7}{16}$" ⌀ holes at 4'-0" cts. for $\frac{3}{8}$" ⌀ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

Strip seal

Locking edge rail

$1\frac{1}{2}$" at 50° F

Top of slab

$\frac{1}{4}$"

3"

3"

3"

$2\frac{3}{4}$" at 50° F.

* $\frac{3}{4}$" ⌀ x 8" studs at 1'-0" cts.

* $\frac{3}{4}$" ⌀ x 8" studs at 2'-0" cts.

$\frac{7}{16}$" ⌀ holes at 4'-0" cts. for $\frac{3}{8}$" ⌀ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The strip seal shall be inserted into the Locking Edge Rails before the parapet ends are formed and poured to allow for proper placement of the strip seal.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be $\frac{3}{16}$", sealed with a suitable sealant.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

LOCKING EDGE RAILS

ROLLED EXTRUDED RAIL

$7\frac{1}{2}$" min.

$\frac{1}{4}$"

$\frac{1}{2}$" min.

WELDED RAIL

$\frac{5}{8}$"

$7\frac{1}{2}$" min.

$\frac{1}{2}$" min.

*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

Grind Flush

Omit weld at seal opening

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	68.0

•332 & 91