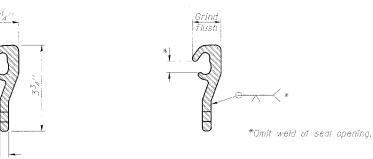


## SECTION THRU STRIP SEAL JOINT FOR OVERLAY OVER DECK BEAMS



## LOCKING EDGE RAIL

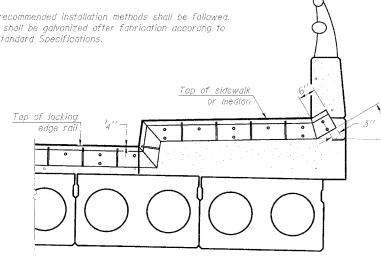
Notes for Strip Seal:

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 height and thickness of the Locking Edge Rails shown are minimum dimensions. 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.

The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage construction Joints.

The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520,03 of the Standard Specifications.



LOCKING EDGE RAIL SPLICE

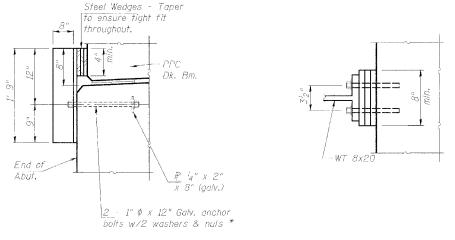
DESIGNED DDB CHECKED LLV DRAWN MGM CHECKED DDB

STRIP SEAL AT EXPANSION JOINTS

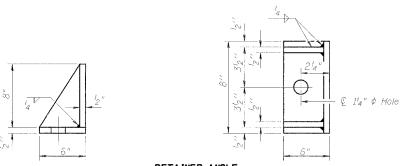
TYPICAL END TREATMENTS

AT SIDEWALK OR MEDIAN

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

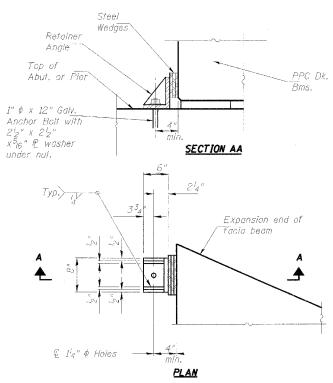


ALTERNATE RETAINER



#### RETAINER ANGLE

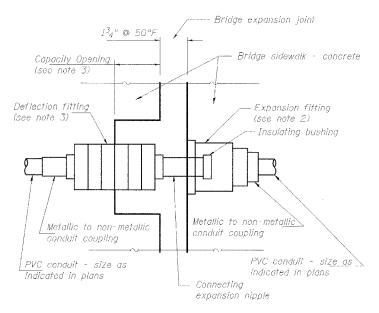
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PERMANENT AND TEMPORARY RETAINER ANGLES

ROUTE NO. COUNTY TOTAL SHEET NO. 25 47 28 SHEETS Cook 34 368

Contract # 60C11



#### Notes for Conduit Expansion Coupling:

- 1. The contractor shall install a conduit expansion/deflection coupling at the joints in the concrete sidewalk on the bridge capable of accepting the longitudinal movement. The coupling shall be made of stainless steel and subject to approval by the Engineer. The cost of the coupling shall be a part of and incidental to the conduit system.
- 2. The barrel in the expansion fitting shall be fully embedded in the concrete one side of the expansion joint.
- 3. One half of the length of the deflection fitting shall be embedded in the concrete on the other side of the expansion joint. A cavity opening 3" larger than the diameter of the deflection sleeve length shall be provided to ensure proper performance of the coupling.
- 4. Careful attention to joint movement over a range of temperatures shall be coordinated with the selection and installation of the coupling to ensure the range of movement of the coupling is not exceeded at temperature extremes.
- 5. All manufacturer's installation instructions shall be carefully followed to ensure optimum performance of the expansion/deflection coupling. 6. The contractor shall install couplings at all expansion joints.

## CONDUIT EXPANSION COUPLING

Retainer Anale Notes:

Permanent side retainers shall be provided outside the facia beams at the expansion ends of all spans.

Temporary side retainers shall be provided outside the facia beams at the expansion ends of all spans at the stage construction line.

All retainers and anchor bolts are included in the cost of Precast Prestressed Concrete Deck Beams of the applicable depth.

After the Concrete Wearing Surface has been poured and cured the temporary retainer angles and anchor bolls shall be removed. Anchor bolts shall be cut off flush, ground smooth, and sealed with epoxy.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor boits may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in New of ASTM F1554.

Drilled and set anchor boits shall be installed according to Article 521.06 of the Standard Specifications.

Retainers shall be shimmed tight until the concrete wearing is poured and cured. The shims shall then be removed from the permanent relainers and the retainers left in place.

Retainers along west side shall be located along the beam to provide at least 2" minimum distance from edge of anchor bolt to edge of pier or abulment cap.

Retainer anales and anchor boits are included in the cost of Precast Prestressed Concrete Deck Beams (21" or 27" depth).

# BILL OF MATERIAL

	270111			Om	10/0/
Preformed	Joint	Strip	Seal	Foot	307
					:

EXPANSION JOINT DETAILS F.A.P. 368 (PULASKI ROAD) OVER BRC RAILROAD. SECTION 1919 VB-R-1. COOK COUNTY, STA. 17+81.60 STRUCTURE NO. 016-1020



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