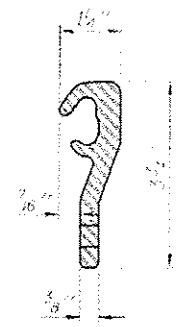


3/8"  $\phi$  holes at 4'-0" o.c. for 3/8"  $\phi$  bolts. All bolts shall be turned, sawed, or chipped off flush with the surface after forms are removed, typ.

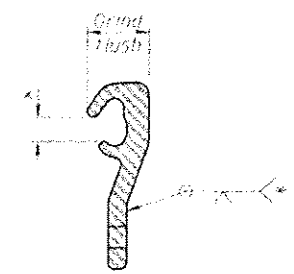
Place 1/2"  $\phi$  x 6" granular or solid foam filled headed studs conforming to Article 1006.12 of the std. Specs., automatically end welded at 1'-0" o.c., etc.

**SECTION THRU RAIL JOINT**

\*Omit weld at seal crossing.



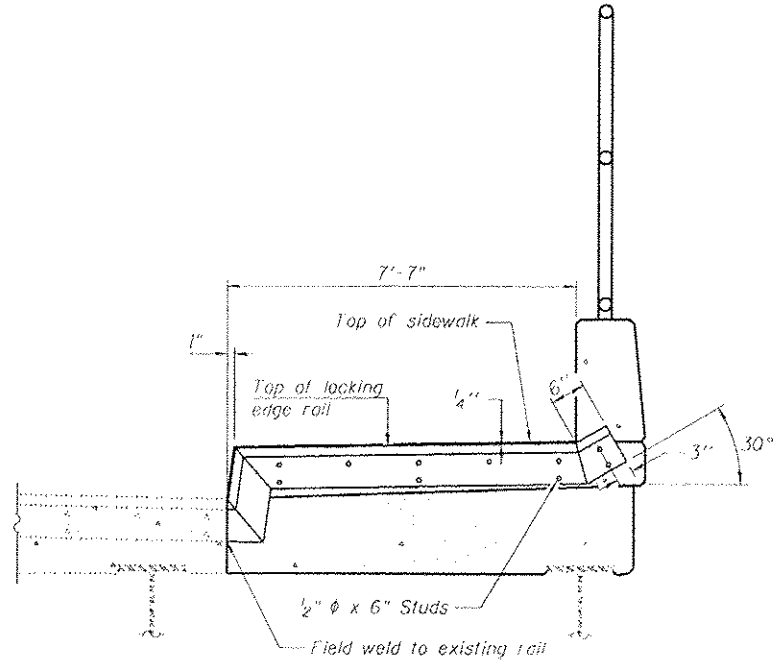
**LOCKING EDGE RAIL**



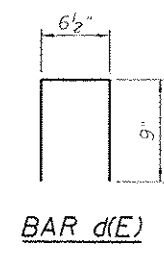
**LOCKING EDGE RAIL SPLICE**

**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails.  
 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 applied at slope discontinuities and stage construction joints.  
 The manufacturer's recommended installation methods shall be followed.

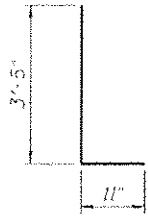
**LOCKING EDGE RAILS**



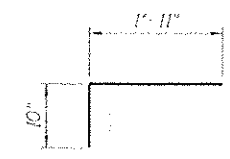
**TYPICAL END TREATMENT AT SIDEWALK**



**BAR d(E)**



**BARS d4(E) AND d5(E)**



**BAR x(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d4(E)	6	#4	4'-4"	┌
d5(E)	6	#6	4'-4"	┌
x(E)	22	#5	2'-9"	┌
d(E)	12	#4	2'-0 1/2"	┐
Concrete Removal		Cu. Yd.	2.2	
Concrete Superstructure		Cu. Yd.	2.2	
Reinforcement Bars, Epoxy Coated		Pound	140	
Preformed Joint Strip Seal		Foot	20	

- Existing strip seal could be re-used if strip seal is in good condition. Otherwise, new strip seal shall be spliced with existing strip seal in compliance with manufacturer's recommendation.
- Removal of existing preformed strip seal cost included with Preformed Joint Strip Seal.
- Sidewalk removal is included in the Concrete Removal quantity on Sheet 3.
- Sidewalk replacement is included in the Concrete Superstructure quantity on Sheet 6.
- New rails shall match existing rail type.

**Notes:**  
 The strip seal shall be made continuous and shall have a minimum thickness of 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 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.  
 All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

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USER NAME: kahostings	DESIGNED: JRM	REVISED:
CHECKED: MDS	REVISIONS:	
DRAWN: DMG		
CHECKED: DL/KAH		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXPANSION JOINT DETAILS  
STRUCTURE NO. 016-0536**

F.A.P. RTE. 0305	SECTION 1920.01, 1518, 2022&1922.4BR	COUNTY COOK	TOTAL SHEETS 919	SHEET NO. 498
CONTRACT NO. 60T35			ILLINOIS FED. AID PROJECT	