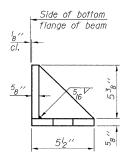
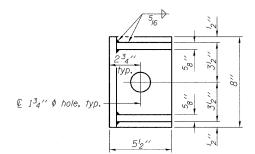
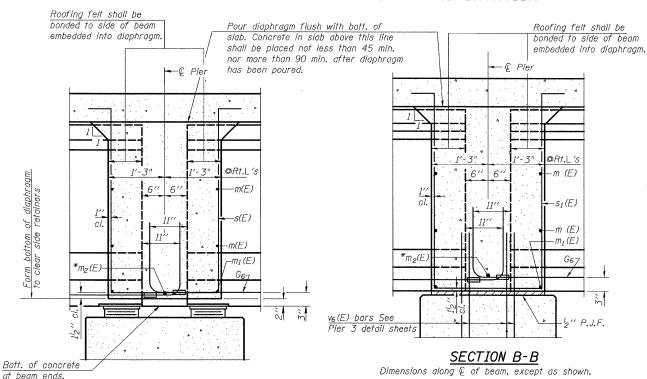
# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





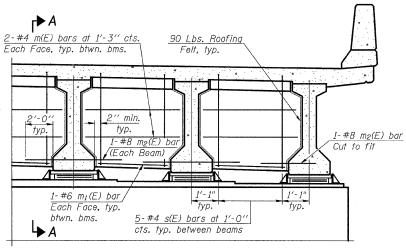
### SIDE RETAINER AT PIER 3

(2 required each side of pier).
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.

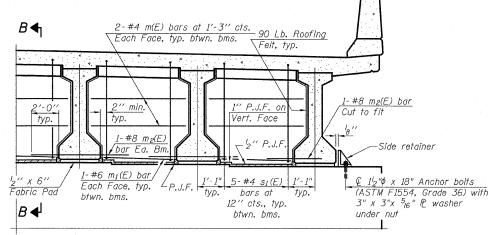


### SECTION A-A

\* Tightly fasten the #8 bars together with No. 9 wire ties.



## DIAPHRAGM AT PIERS 1, 2, 4



### DIAPHRAGM AT PIER 3

# © Pier | Pier | PJF | P

PLAN AT PIER 3
(Showing bearing pad and PJF details)

MIN. BAR LAP (Diaphragms) #6 bar = 2'-9"

PIER DIAPHRAGM DETAILS STRUCTURE NO. 006-0170 EB STRUCTURE NO. 006-0171 WB

SHEET NO.20 F.A. SECTION COUNTY TOTAL SHEET NO. 20 80 \* BUREAU 3 44 // 1/4
59 SHEETS
FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

TYLIN INTERNATIONAL

### lotes:

Reinforcement bars in diaphragm are billed with superstructure on sheets 15 and 18 of 59.

Concrete in diaphragm is included with Concrete Superstructure on sheets 15 and 18 of 59.

For details of bars s(E) and  $s_1(E)$  see sheets 15 and 18 of 59. The s(E) and  $s_1(E)$  bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

Cost of 90 Lb. roofing felt is included with Concrete Superstructure. The side retainer shall be galvanized after shop fabrication according to AASHTO M 111.

Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

Anchor bolts at Pier 3 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 bolts may be used in lieu of ASTM
F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of
AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be either cast in place or installed in holes drilled after the supporting member is in place and prior to pouring the deck.

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

Cost of side retainer and anchor bolts at Pier 3 shall be included with

C <u>oncrete Structures.</u>			
	DESIGNED	-	I.M.
	CHECKED	-	PDF
	DRAWN	-	I.M.
	CHECKED	-	PDF
	<u> </u>		

\*06-[7BR & BR-1,7VB-M, 6BR & 6, 7 RS-1 & I]