

SIDE RETAINER

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

Notes.

Reinforcement bars in diaphragm are billed with superstructure on sheet 11 of 25.

Concrete in diaphragm is included with Concrete Superstructure on sheet 11 of 25.

For details of bars s(E),  $s_1(E)$  and  $s_2(E)$  see sheet 11 of 25. The s(E),  $s_1(E)$  and  $s_2(E)$  bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

See sheet 14 of 25 for Sections A-A and B-B.
Cost of 90 Lb roofing felt is included with Cond

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 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.

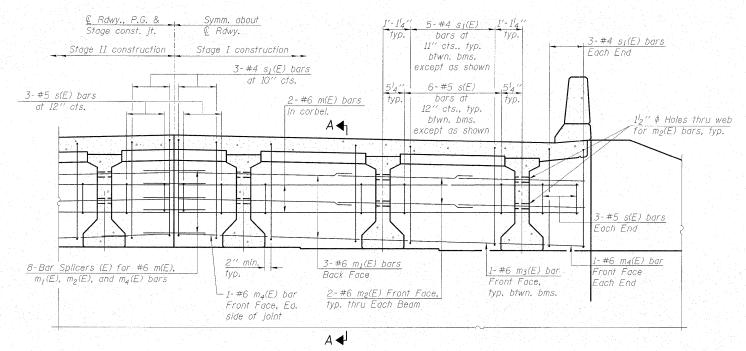
Cost of side retainer and anchor bolts shall be included with Concrete Structures.



DESIG	NED - BAS
CHECK	CED - KEF
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## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

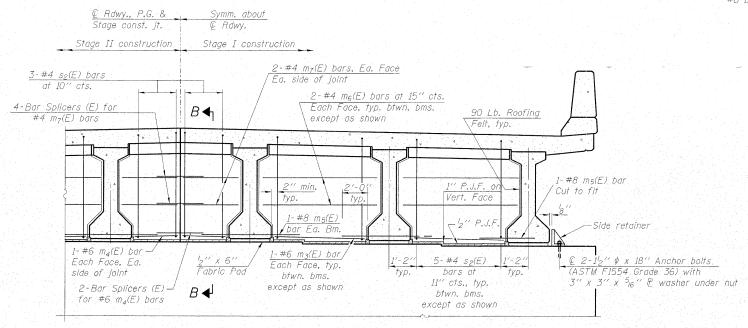




## DIAPHRAGM ELEVATION AT ABUTMENT

(Looking West) West abut, shown, East abut, similar

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



## DIAPHRAGM ELEVATION AT PIER

(Looking West)

DIAPHRAGM DETAILS

IL ROUTE 121 OVER BIG MUDDY CREEK

F.A.P. RTE. 773 - SECTION (109B)B-1

CUMBERLAND COUNTY

STATION 574+84.00

STRUCTURE NO. 018-0063