STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Stage construction line

1'-10½''   A

Temporary Concrete Barrier
See Standard 704001

Stage removal line

1'-10½''

Stage removal line

1'-10½''

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

*** 3'' min.

**** 4'' max.

See Detail I or Detail II.

Drill 3-1¼'' φ Holes in existing slab for 1'' φ x 11'' dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

NEW SLAB

EXISTING SLAB

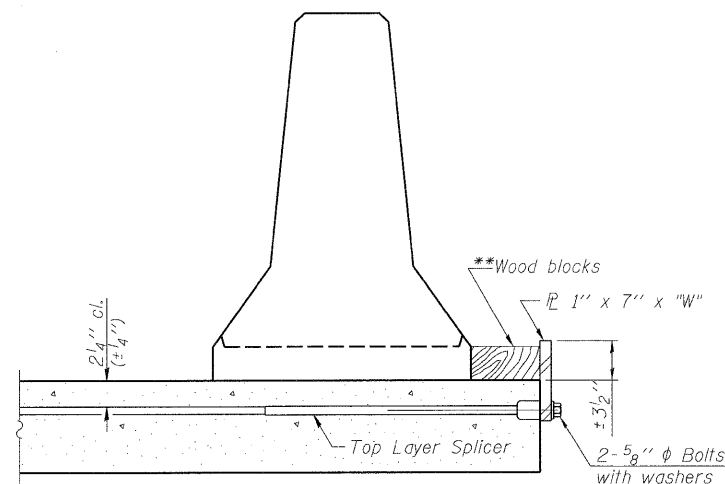**EXISTING DECK BEAM**
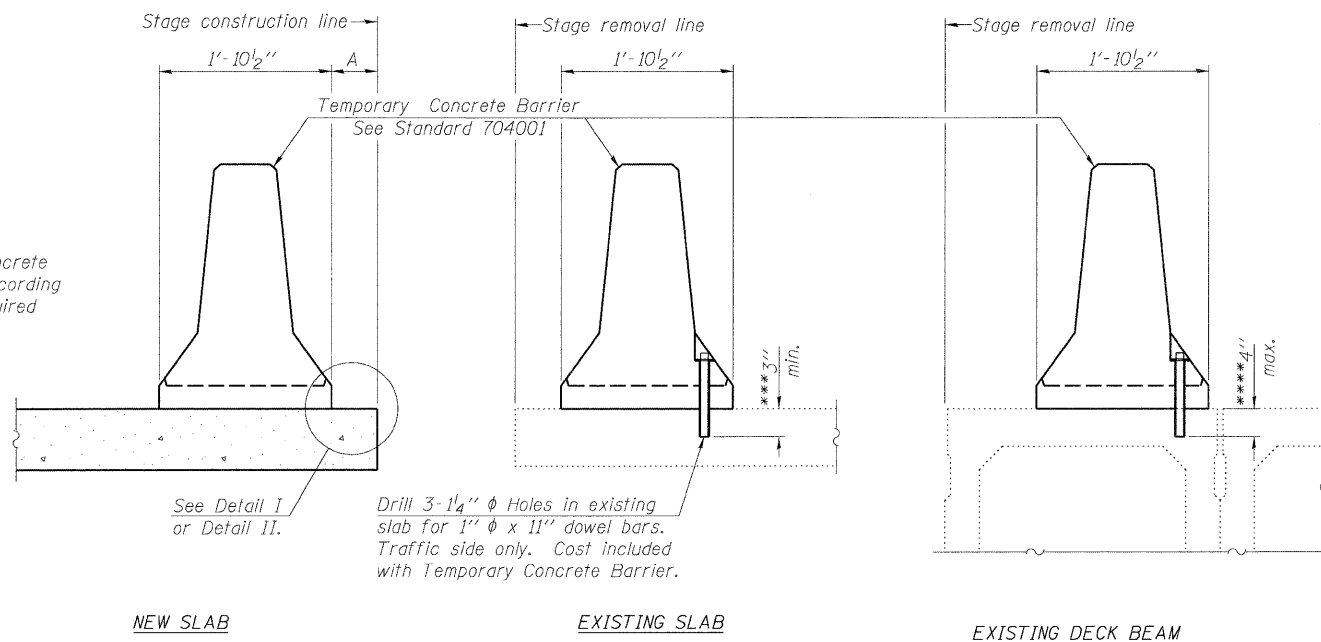
SECTIONS THRU SLAB OR DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1''x7''x10'' steel ℙ to the top layer of couplers with 2-⅝'' φ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1''x7''x 10'' steel ℙ to the concrete slab or concrete wearing surface with 2-⅝'' φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.
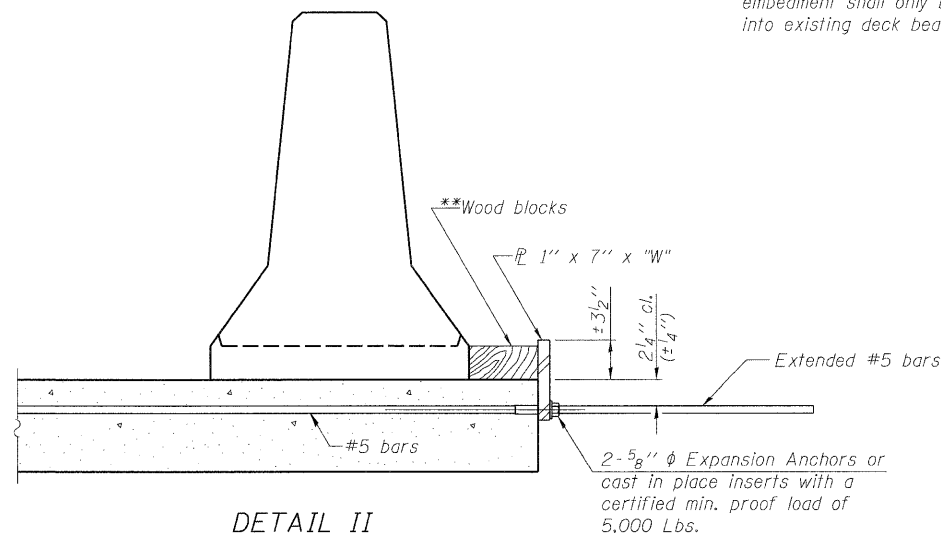
Cost of anchorage is included with Temporary Concrete Barrier.

The 1'' x 7'' x 10'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

**Wood blocks

ℙ 1'' x 7'' x "W"

2¼'' cl. (±¼'')

±3½'

Top Layer Splicer

2-⅝'' φ Bolts with washers

DETAIL I

**Wood blocks

ℙ 1'' x 7'' x "W"

±3½'

2¼'' cl. (±¼'')

#5 bars

Extended #5 bars

2-⅝'' φ Expansion Anchors or cast in place inserts with a certified min. proof load of 5,000 Lbs.

DETAIL II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4''

"W"

2''   2''

7''   5¾''

1¼''

Top bars spacing   Detail I

3''   3''   Detail II

℄ ⅞'' φ Holes

℄ 1'' x 1½'' Notch
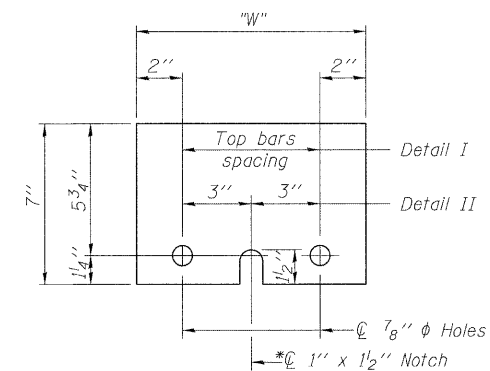
STEEL RETAINER ℙ 1'' x 7'' x 10''

* Required only with Detail II

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-1121

LE LIN ENGINEERING,LTD. Consulting Engineers Chatham, Illinois	SHEET NO. 3 9 SHEETS		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290	(531-3.1,0305-302K)RS-5	COOK	314	235

CONTRACT NO. 60138

Designed By: ESH   Checked By: MTH   Drawn By: ESH

Date: 12/2009   File: 016-1121.dgn

FED. ROAD DIST. NO. _   ILLINOIS FED. AID PROJECT