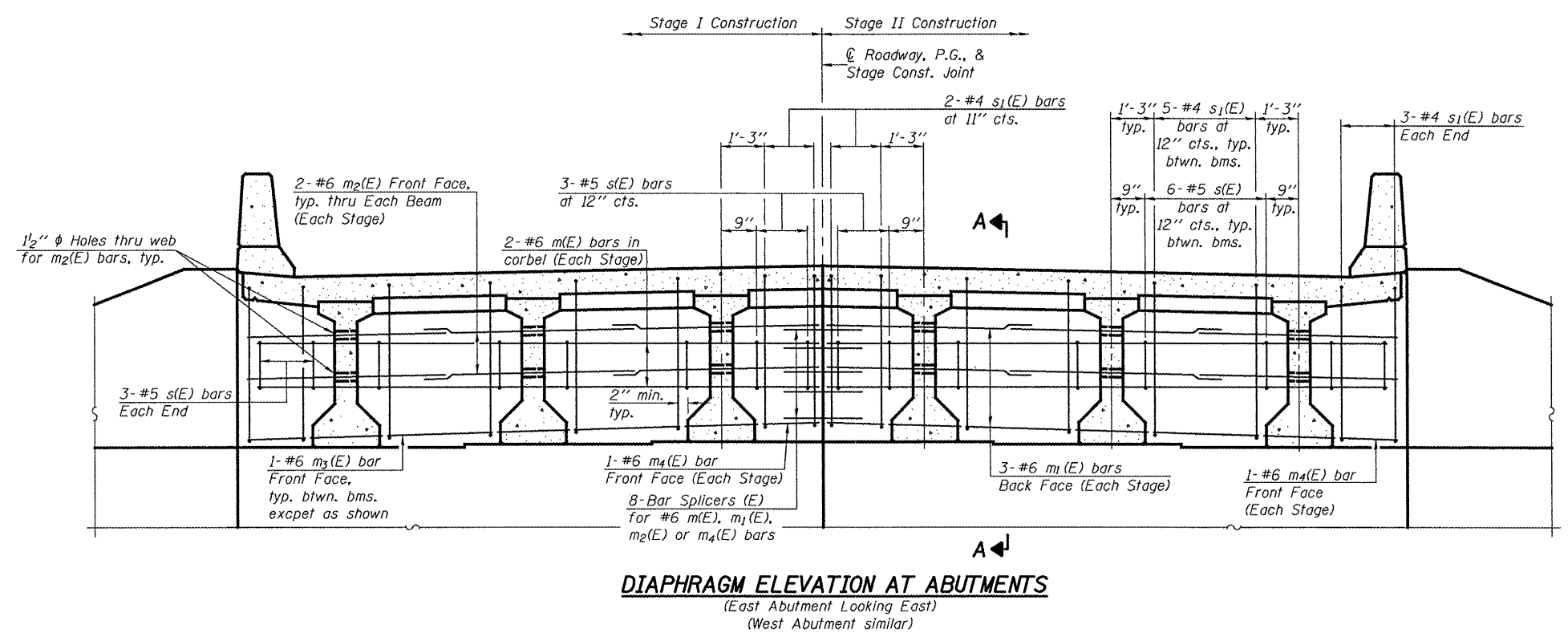


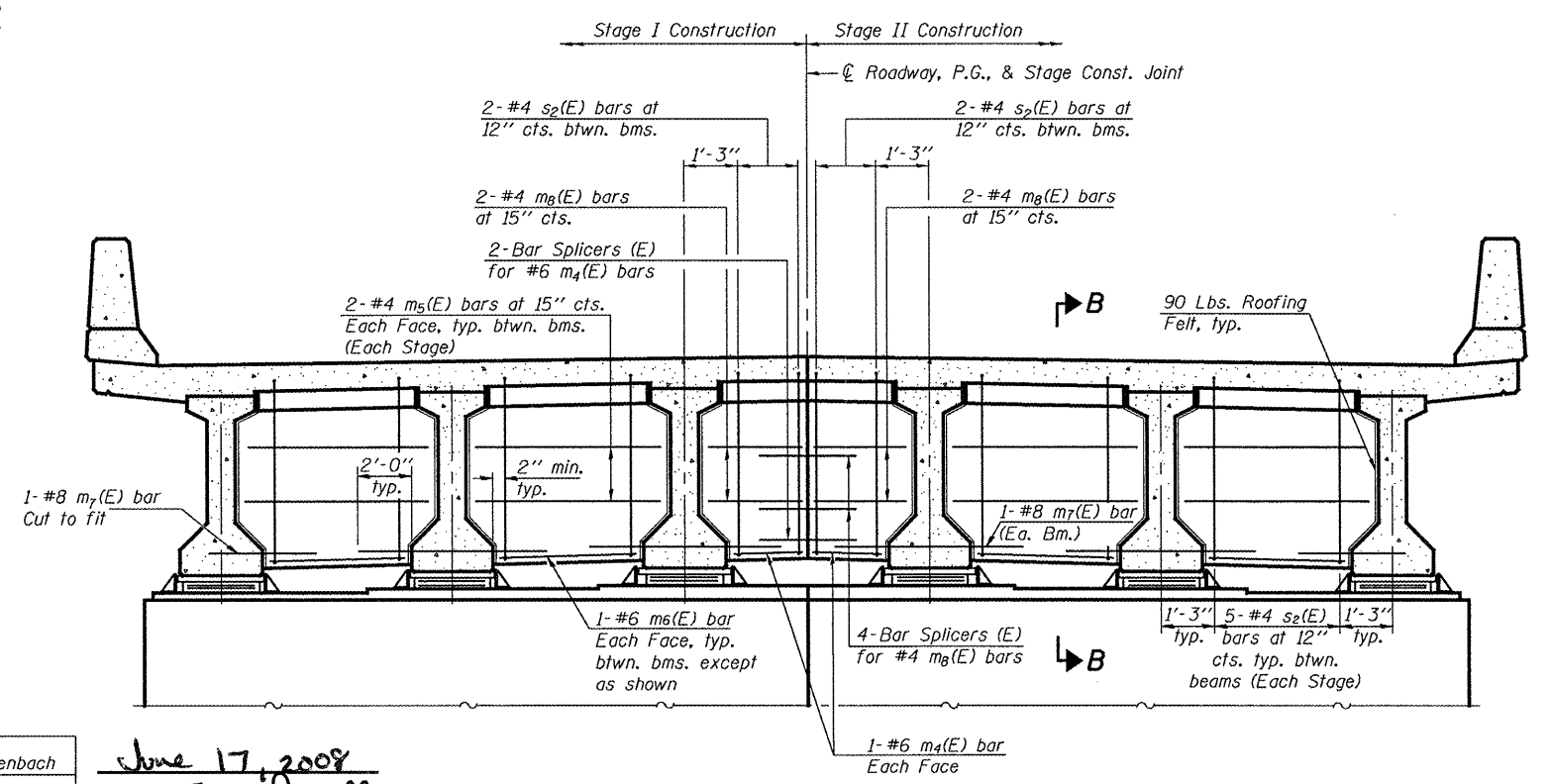
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
FAP 769	110B-2	MACOUPIN	98	54	38 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract #72813



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



Notes:

- Reinforcement bars in diaphragm are billed with superstructure on sheet 13 of 38.
- Concrete in diaphragm is included with Concrete Superstructure on sheet 13 of 38.
- For details of bars s(E) and s<sub>1</sub>(E) see sheet 13 of 38.
- For details of bars s<sub>2</sub>(E) and s<sub>3</sub>(E) see sheet 16 of 38.
- The s(E), s<sub>1</sub>(E), s<sub>2</sub>(E) and s<sub>3</sub>(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
- See sheet 16 of 38 for Sections A-A and B-B.
- 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.

DESIGNED	Tam Kurtenbach
CHECKED	Jay Edwards
DRAWN	BECKY M. LEACH
CHECKED	TK/JE

June 17, 2009

EXAMINED *Thomas J. Romagnolo*  
ENGINEER OF BRIDGES DESIGN

PASSED *Ronald E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**DIAPHRAGM DETAILS**  
F.A.P. ROUTE 769 - SEC. 110B-2  
MACOUPIN COUNTY  
STATION 104+41.00  
STRUCTURE NO. 059-0509