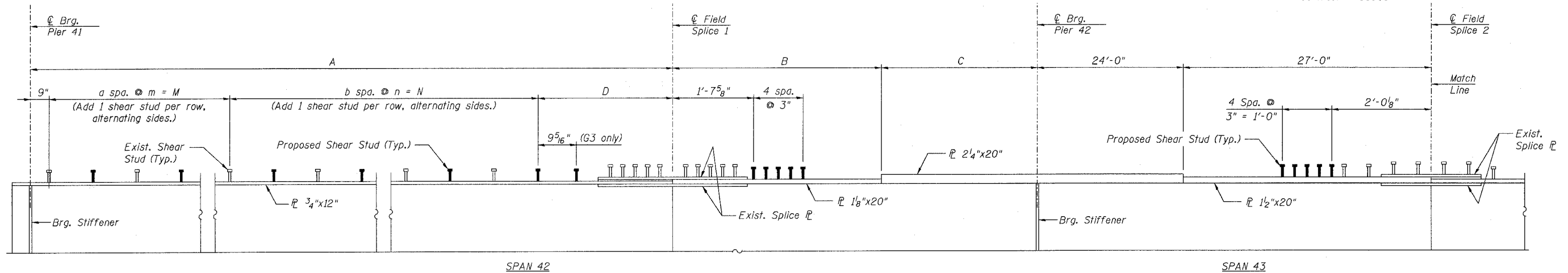


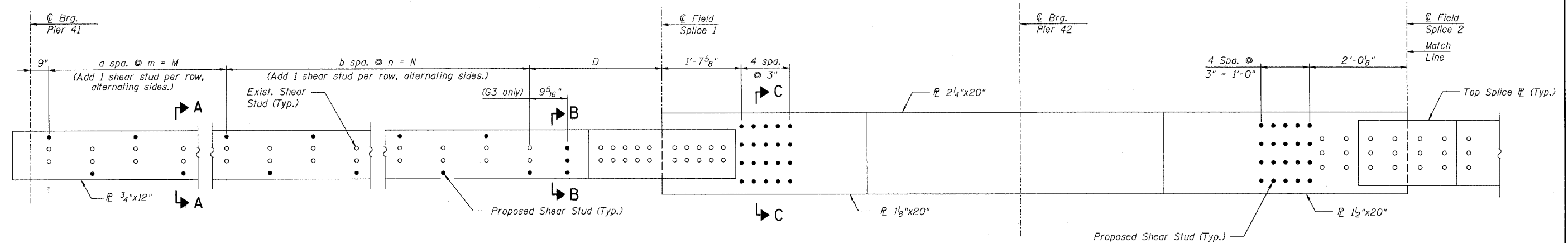
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO. F.A.I. 39	SECTION 50-4B	COUNTY LASALLE	SHEET 221	SHEET 313	SHEET NO. 196B
FED. ROAD DIST. NO. 7		ILL. STATE		FED. AID PROJECT	

Contract # 66586



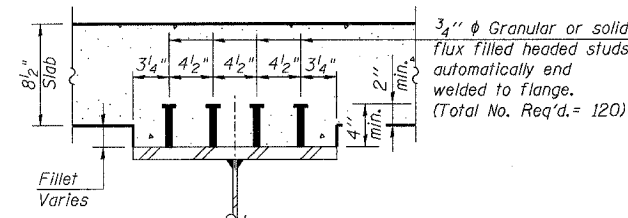
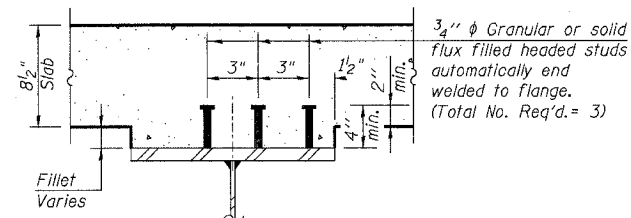
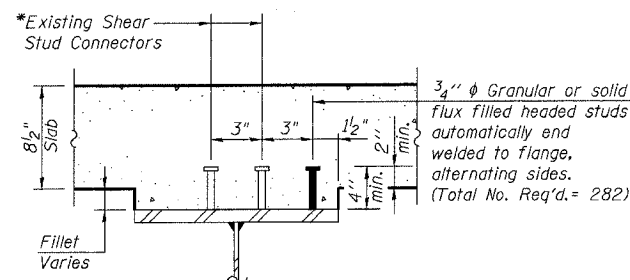
**ELEVATION - GIRDERS G3, G4 & G5**  
(Dimensions along  $\phi$  Girder)



**PLAN - GIRDERS G3, G4 & G5**  
(Dimensions along  $\phi$  Girder)

**GIRDER VARIABLES**

Girder	A	B	C	D	a	m	M	b	n	N
G3	86'-1 3/8"	42'-3"	31'-0"	2'-6 7/16"	93	10 1/16"	82'-9 5/16"	—	—	—
G4	93'-0 3/8"	40'-3"	31'-6"	2'-6 3/4"	30	10 1/16"	26'-8 5/8"	63	1'-0"	63'-0"
G5	99'-2 3/8"	37'-8"	33'-4"	2'-5 5/16"	33	10 1/16"	29'-4 1/16"	60	1'-1 5/16"	66'-6 3/4"



\*Fillet reinforcement will be required if existing studs do not meet the minimum projection into proposed deck. See detail on sheet 168.

DESIGNED -	KWS
CHECKED -	MRB
DRAWN -	JGY
CHECKED -	MTH

**LIN ENGINEERING, LTD.**  
210 W. Chestnut  
Chatham, Illinois 62629  
(217) 483-4168  
FAX (217) 483-4706

**benesch**  
alfred benesch & company  
Engineers - Surveyors - Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-265-0450  
Job # 3856

**SHEAR STUDS - SPANS 42 & 43 SB**  
**ABRAHAM LINCOLN BRIDGE OVER**  
**THE ILLINOIS RIVER (PUBLIC WATERS)**  
**F.A.I. ROUTE 39 SEC. (50-4B) BR**  
**LASALLE COUNTY**  
**STATION 863+16.00**  
**STRUCTURE NO. 050-0191 (SB & NB)**

x:\3800s\3856\structures\abre\lincoln\memorial\final\plans\studs-42&43\SBG345.sht

3:35:32 PM

8/30/2006