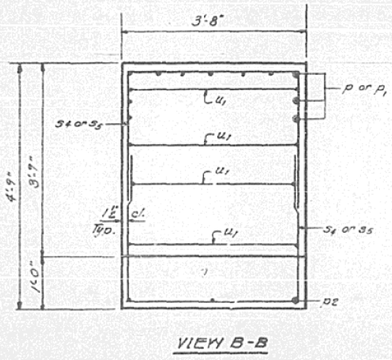
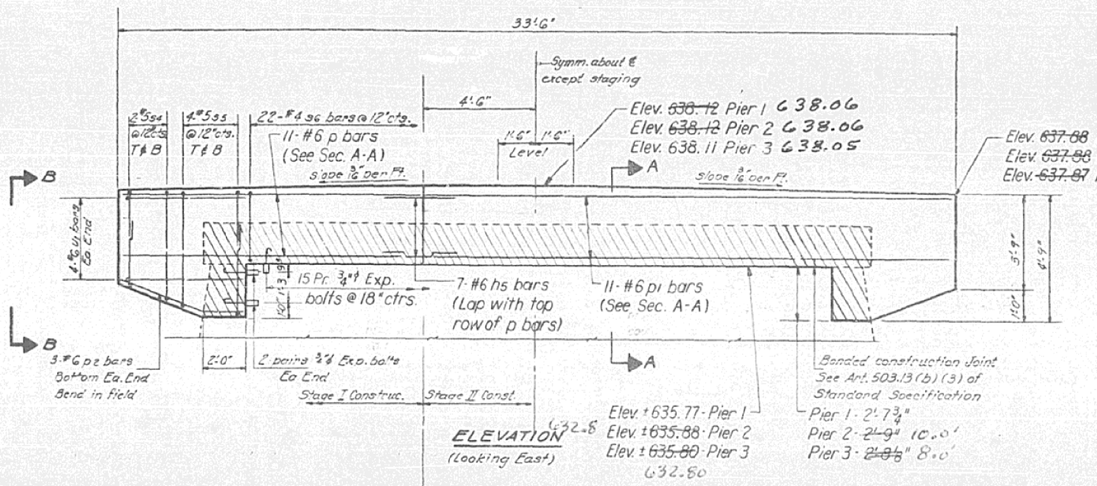
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 711	116BR	VERMILION	16	14
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

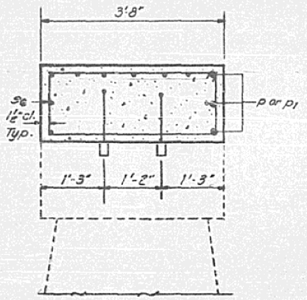
SHEET NO. 6
6 SHEETS



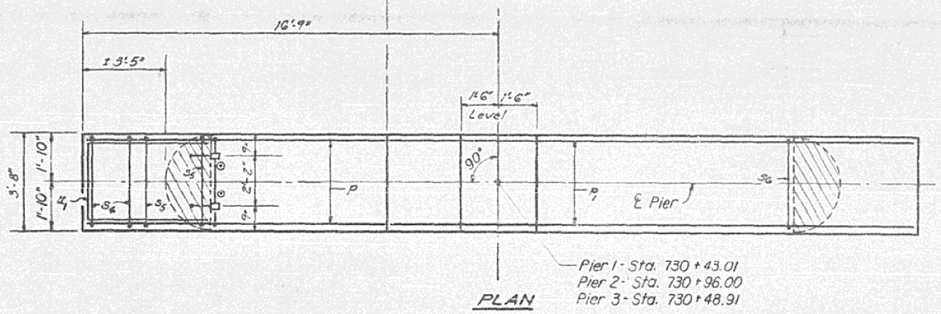
VIEW B-B



Notes.
Hatched area indicates concrete removal.
Expansion bolts shall be anchored in sound concrete.
All edges shall have Standard 3/4" chamfers except as noted.
Clean, straighten existing reinforcement and incorporate in new concrete.



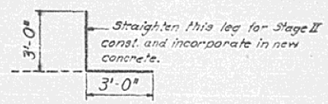
SECTION A-A



PLAN

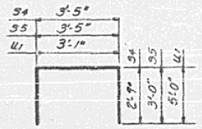
THREE PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5	33	#6	6'-0"	L
p	33	#6	12'-0"	—
p1	33	#6	21'-0"	—
p2	18	#6	5'-0"	—
S4	24	#5	8'-11"	⊐⊏⊐
S5	48	#5	9'-5"	⊐⊏⊐
S6	66	#4	11'-7"	⊐⊏⊐
U1	24	#6	19'-1"	⊐⊏⊐
Class X Concrete			Cu. Yds.	~~40.9~~ 62.95
Reinforcement Bars			Lbs.	~~3750~~ 5354
Concrete Removal			Cu. Yds.	~~15~~ 39.27
Expansion Bolts 3/4" ø			Each	~~120~~ 148

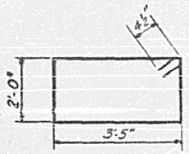


BAR h5*

*h5 bars shall conform to the requirements of ASTM A-615 or A-617 except the minimum yield strength shall not be less than 33,000 psi nor more than 45,000 psi.



BARS S4, S5 & U1



BAR S6

DESIGNED	R. Whittum
CHECKED	Suresh T. Desai
DRAWN	Simon Ustamb
CHECKED	S.D.

EXAMINED — MARCH 19 1973
PASSED — W. E. Sarmann
APPROVED — Roger F. Nerstrum
UNDER SECRETARY, CHIEF TRANSPORTATION ENGINEER (ACTING)

FOR INFORMATIONAL PURPOSES ONLY

PIERS 1 & 3
FA.RT. 711 SEC. 116-BR
VERMILION CO.
STA. 730+96

PRINT DATE: 1/13/2014 $TIME$ $FILE$

EFK • Moen, LLC
Civil Engineering Design
331 Salem Place, Suite 225
Fairview Heights, IL 62208
Phone 618-206-4250

USER NAME = detersbj	DESIGNED - CTW	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE = 0:2.0000 '/ in.	DRAWN - CTW	REVISED -
PLOT DATE = 1/13/2014	DATE - 1/13/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS (4 OF 5)
STRUCTURE NO. 092-0065
SHEET NO. 4 OF 5 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
711	116BR-1	VERMILION	84	67
		CONTRACT NO. 70614		
	ILLINOIS	FED. AID PROJECT		