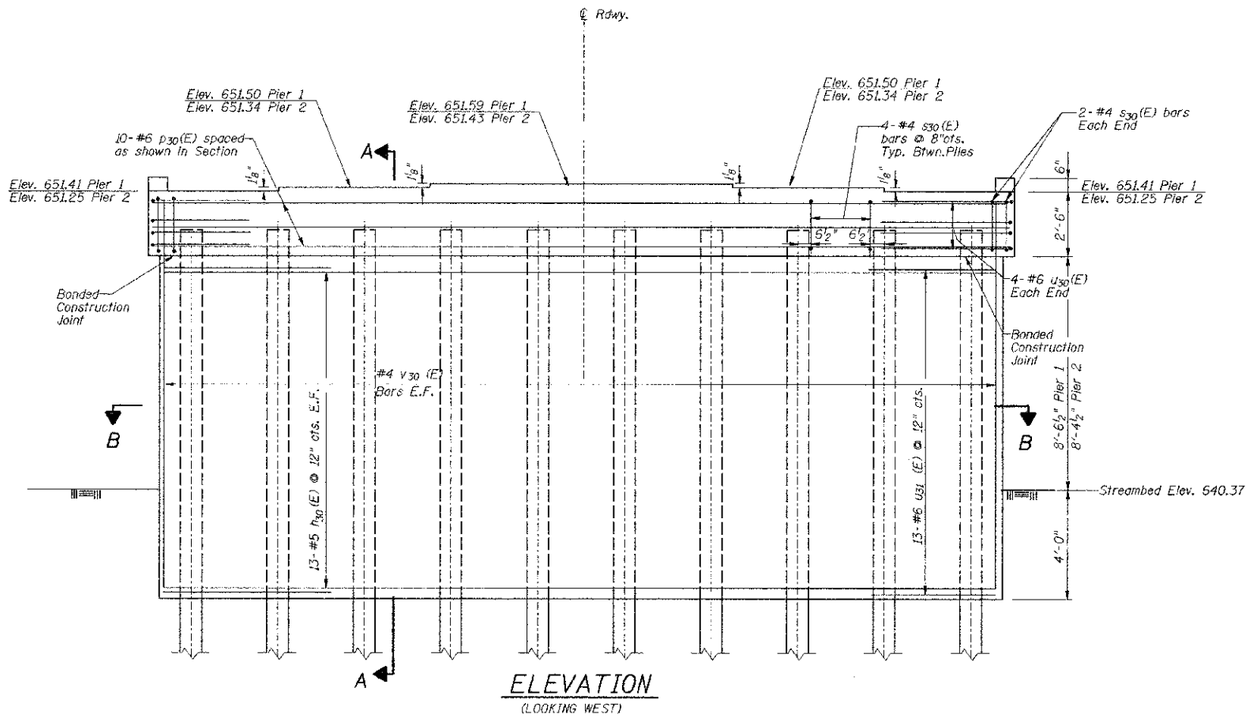
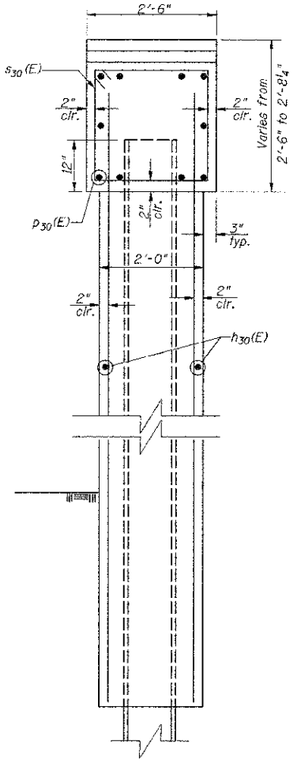
CONTRACT NUMBER 91464

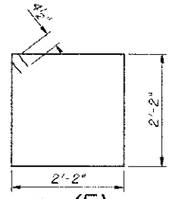
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 16	07-00944-00-BR	CHAMPAIGN	45	24
STA.	TO STA.			
F.H.W.A. REG.	ILLINOIS	PROJECT		

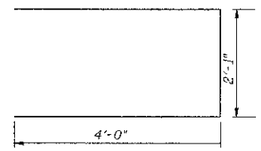
Sheet 15 of 21

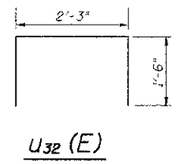


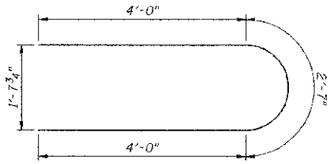


SEC. A-A



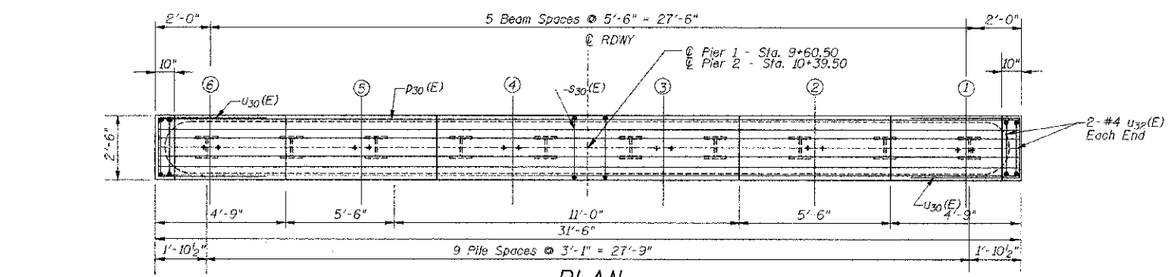




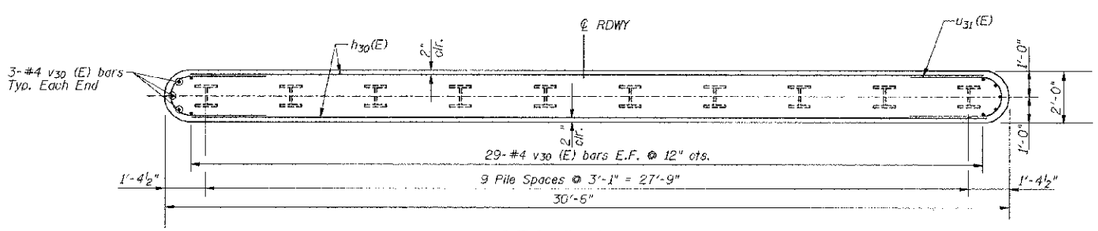


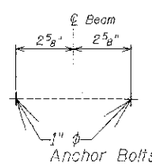
BILL OF MATERIAL (2 PIERS)

Bar	No.	Size	Length	Shape
h_{30}(E)	52	#5	28'-6"	——
p_{30}(E)	20	#6	31'-2"	——
s_{30}(E)	80	#4	9'-5"	□
u_{30}(E)	16	#6	10'-1"	⊐
u_{31}(E)	52	#6	10'-7"	⊐
u_{32}(E)	8	#4	5'-3"	⊓
v_{30}(E)	128	#4	14'-0"	——
Concrete Structures			Cu. Yd.	73.7
Reinforcement Bars Epoxy Coated			Pound	5280
Furnishing Steel Piles HP 10x42			Foot	1080
Driving Piles			Foot	1080
Pile Shoes			Each	20
Structure Excavation			Cu. Yd.	62
Test Pile HP10X42			Each	2
Underwater Structure Excavation Protection - Location 1			Each	1
Underwater Structure Excavation Protection - Location 2			Each	1



Note: All edges shall have a standard ¾" chamfer except as noted.





ANCHOR BOLT LAYOUT
Typical @ all Beams

PILE DATA

Type : Steel HP10X42
Nominal Req'd Bearing : 270 kips
Allowable Resistance Available : 90 kips
Est. Length : 60'
No. Required : 18
Test Pile: 2, 1 @ Pier 1, 1 @ Pier 2

PIER DETAILS
SECTION: 07-00944-00-BR
CHAMPAIGN COUNTY
℄ STATION 10+00

19 Piers 1 and 2.dgn 2/13/2012 11:26:41 AM