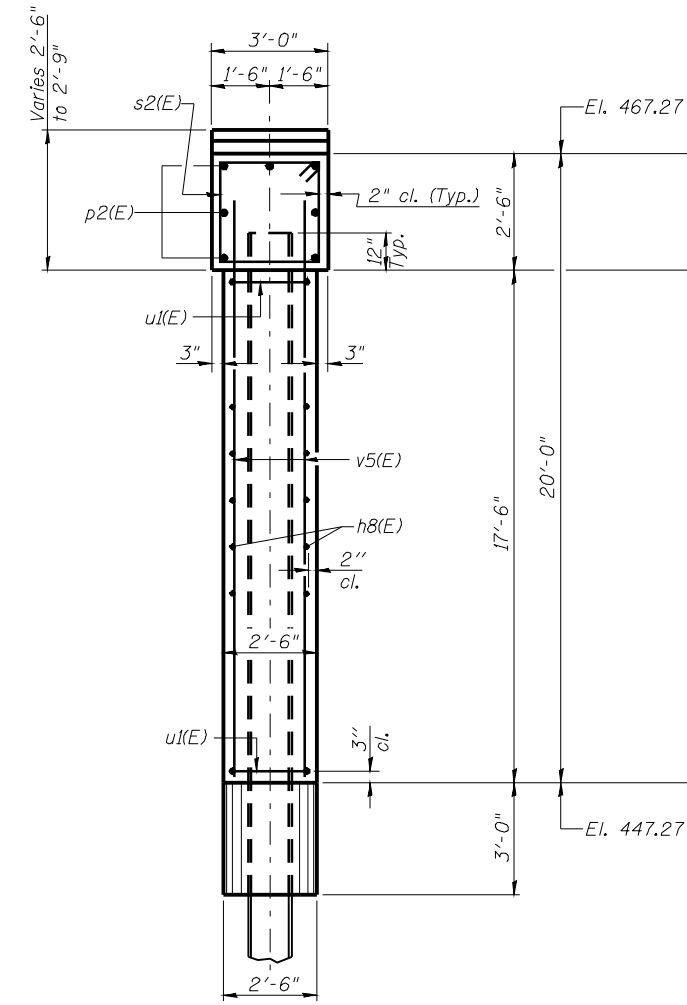


Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement,
see sheet 71 of 86.

PIER 2 EXPERIMENTAL PILE
DRIVING and TESTING SEQUENCE

1. With dynamic monitoring, drive pile to a tip elevation of 385.0 ft.
2. Wait a minimum 3 calendar days to allow pile to set-up. Adjacent piles may be driven during this waiting period.
3. Perform the Pile Load Test.
4. Wait a minimum 1 calendar day to allow pile to set-up.
5. Redrive the experimental pile with dynamic monitoring to a minimum driven bearing equal to the nominal required bearing shown in the Pile Data table. The Engineer may require the driven bearing to exceed the nominal required beaing during redriving.



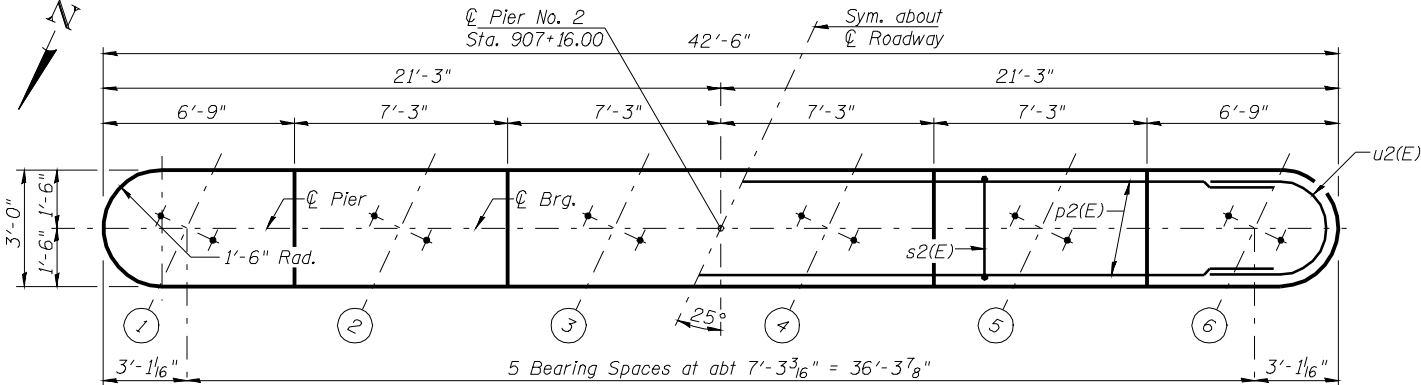
END VIEW

PILE DATA

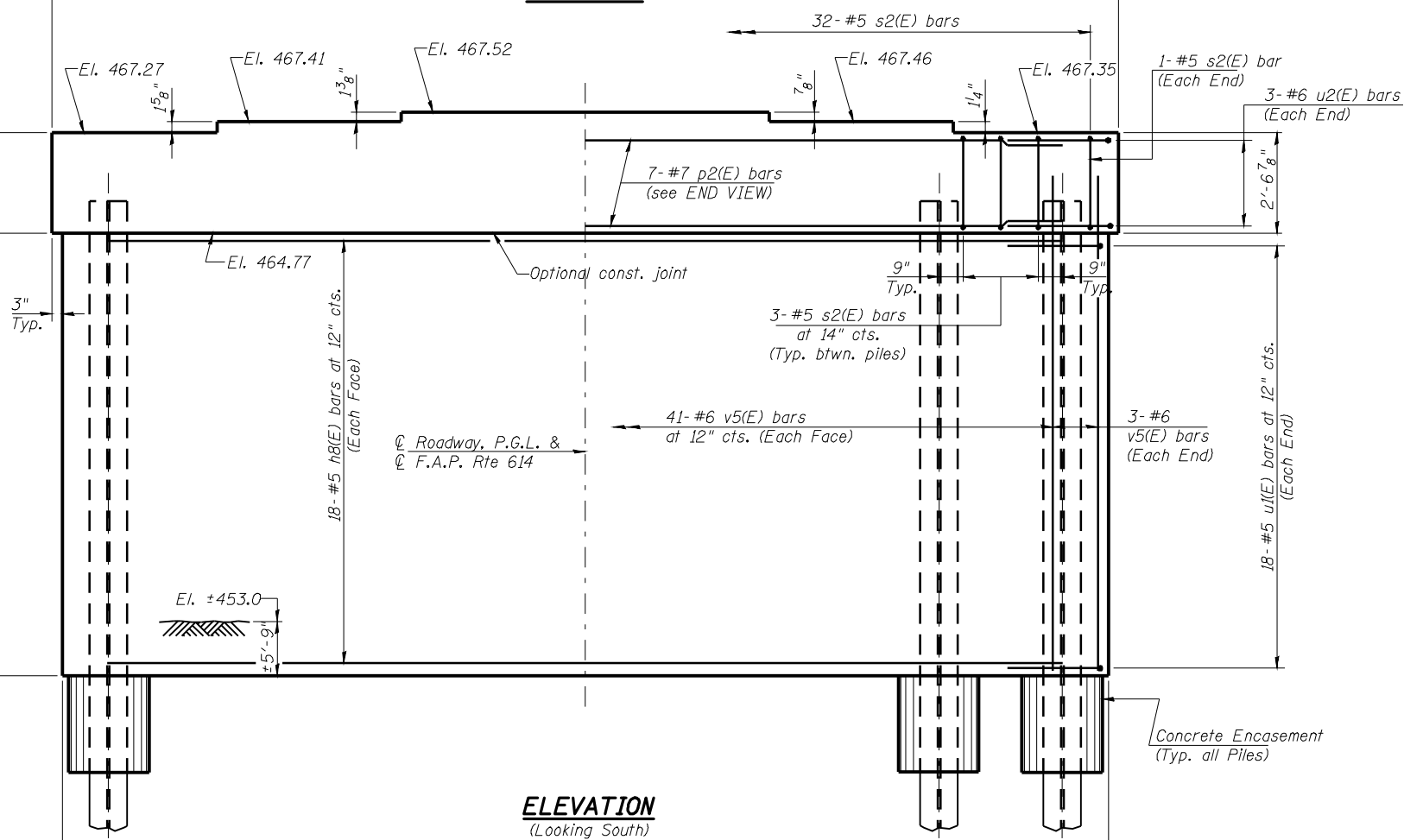
Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	352 kips
Est. Length:	95 Ft.
No. Production Piles:	11 (Includes 1 Experimental Pile)
No. Test Piles:	None

One pile at Pier 2 must be designated as an expermental pile. The contractor may select the experimental pile location within the pier. A pile shoe shall not be attached to the experimental pile.

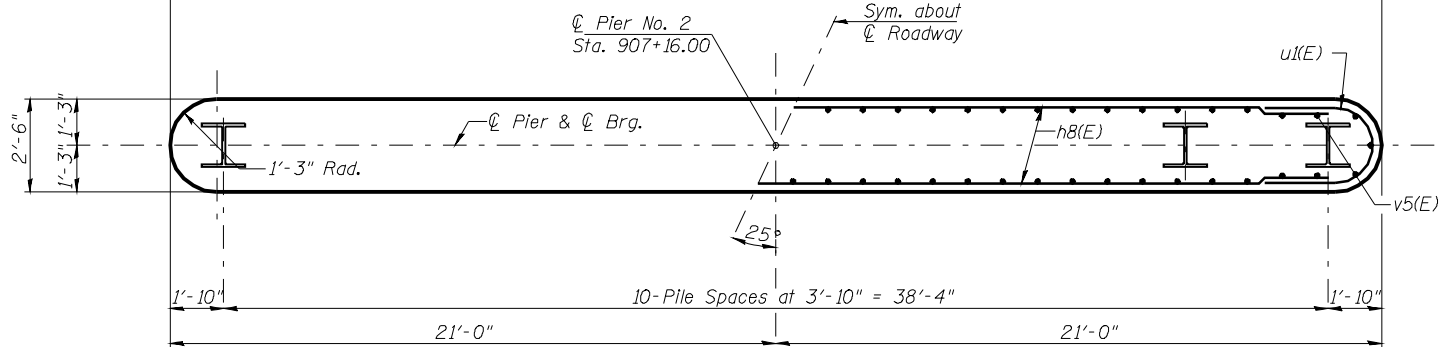
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



TOP PLAN



ELEVATION
(Looking South)

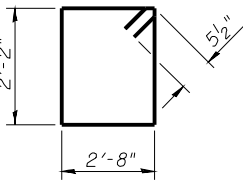
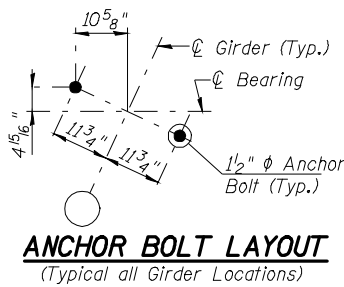


FOOTING PLAN

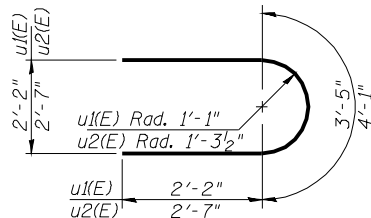
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	193
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 57
86 SHEETS

Contract #72A76



BAR s2(E)



BARS u1(E) & u2(E)

BILL OF MATERIAL - PIER 2

Bar	No.	Size	Length	Shape
h8(E)	36	#5	39'-6"	—
p2(E)	7	#7	39'-6"	—
s2(E)	32	#5	10'-7"	□
u1(E)	36	#5	7'-9"	U
u2(E)	6	#6	9'-3"	U
v5(E)	88	#6	19'-0"	—
Structure Excavation		Cu. Yd.	45	
Concrete Structures		Cu. Yd.	79.5	
Reinforcement Bars, Epoxy Coated		Pound	5290	
Furnishing Steel Piles, HP 14x89		Foot	1045	
Driving Piles		Foot	1045	
Concrete Encasement		Cu. Yd.	6.0	
Pile Shoes		Each	10	
Braced Excavation		Cu. Yd.	63	
Pile Load Test		Each	1	

PIER 2 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO.
07S2026

DATE
03/27/09