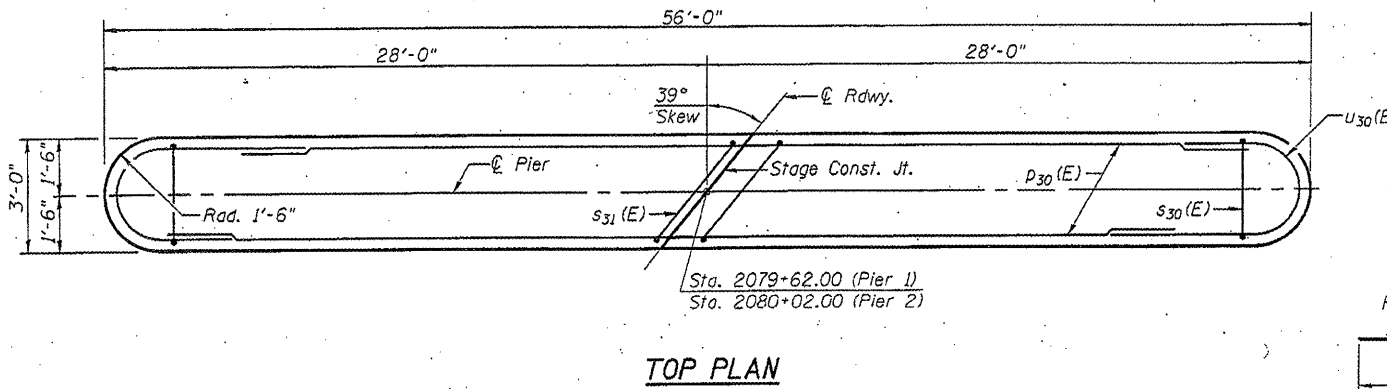


**PIER 1 PILE DATA**

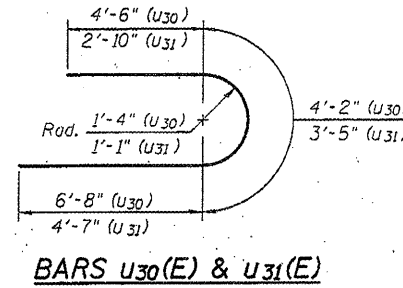
Type: Metal Shell Piles 14" dia. x .312" walls with pile shoes  
 Nominal Required Bearing: 427 kips  
 Factored Resistance Available: 163 kips  
 Est. Length: 54'  
 No. Production Piles: 11  
 No. Test Piles: 1

**PIER 2 PILE DATA**

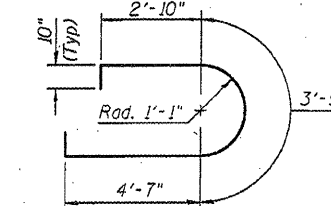
Type: Metal Shell Piles 14" dia. x .312" walls with pile shoes  
 Nominal Required Bearing: 376 kips  
 Factored Resistance Available: 162 kips  
 Est. Length: 57'  
 No. Production Piles: 12  
 No. Test Piles: 0



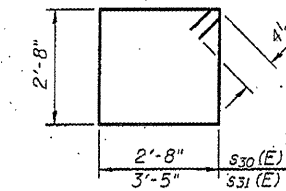
**TOP PLAN**



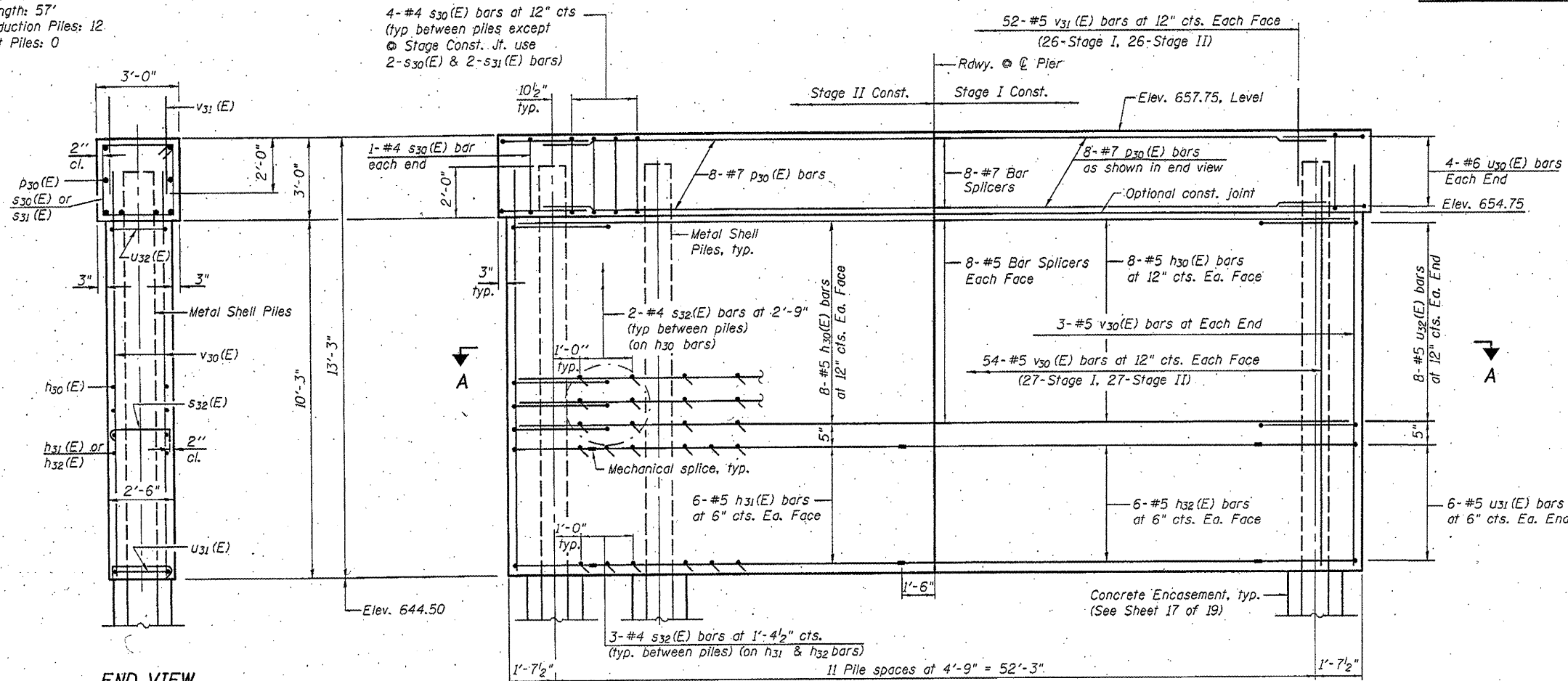
**BARS s32(E)**



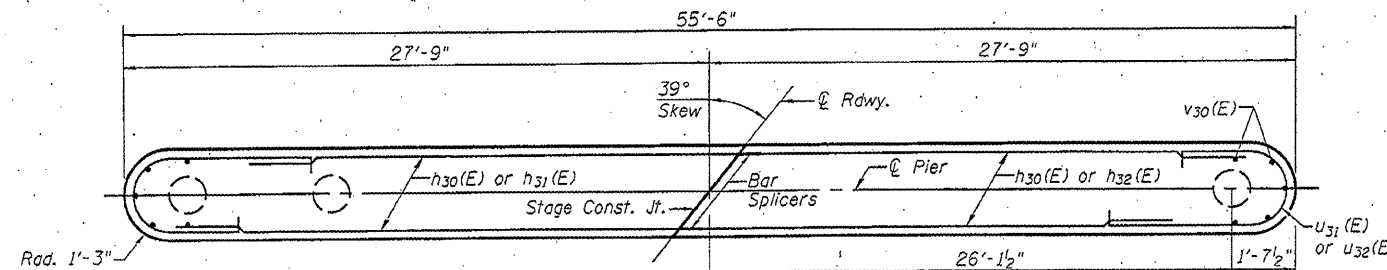
**BARS U32(E)**



**BAR s30(E) & s31(E)**



**ELEVATION**  
(Looking North)



**SECTION A-A**

**BILL OF MATERIAL**  
(TWO PIERS)

Bar	No.	Size	Length	Shape
h30(E)	64	#5	27'-5"	—
h31(E)	24	#5	21'-4"	—
h32(E)	24	#5	24'-3"	—
D30(E)	32	#7	25'-5"	—
s30(E)	88	#4	11'-5"	□
s31(E)	4	#4	12'-11"	□
s32(E)	748	#4	2'-11"	┘
U30(E)	16	#6	15'-4"	U
U31(E)	24	#5	10'-10"	U
U32(E)	32	#5	12'-6"	U
v30(E)	228	#5	12'-3"	—
v31(E)	208	#5	3'-7"	—
Cofferdam Excavation		Cu. Yd.	137	
Concrete Structures		Cu. Yd.	141.2	
Concrete Encasement		Cu. Yd.	10.2	
Reinforcement Bars, Epoxy Coated		Pound	11,545	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	1,278	
Driving Piles		Foot	1,278	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	24	
Cofferdam (Type I)		Each	2	
-Locations 1 & 2				
Mechanical Splicers		Each	72	

**Notes:**

If a portion of the concrete encasement is underwater, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction. For details of piles, see sheet 17 of 19.

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 HR JOB # 190-1580



PC-1

7-1-10

FILE NAME *	USER NAME *	DESIGNED -	REVISIONS
	JSP	JSP	REVISIONS
	CJC	CJC	REVISIONS
	UJ	UJ	REVISIONS
	RVB	RVB	REVISIONS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIERS  
 STRUCTURE NO. 010-0286

SHEET NO. 16 OF 19 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
808	948R-1	CHAMPAIGN	50	29
CONTRACT NO. 70582				
ILLINOIS FED. AID PROJECT				