ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 17	(123WPH) BR-2	OGLE	61	47
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT -	

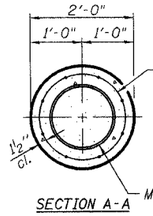
SHEET NO. 8
10 SHEETS

CONTRACT #64417

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DATA

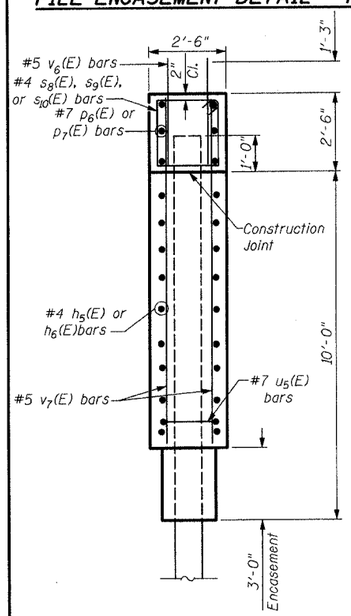
Type: Metal Shell Pile, 12"
Capacity: 40 Tons
Est. Length: 50'
No. Req'd" 11



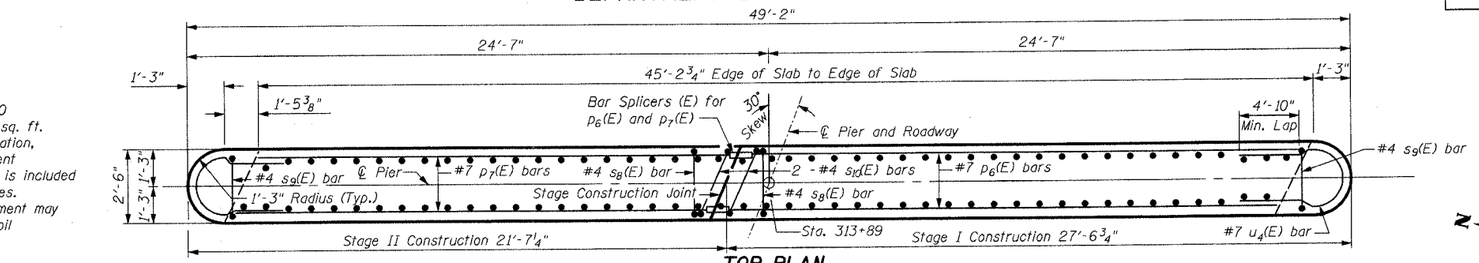
SECTION A-A

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

PILE ENCASEMENT DETAIL - PLAN VIEW

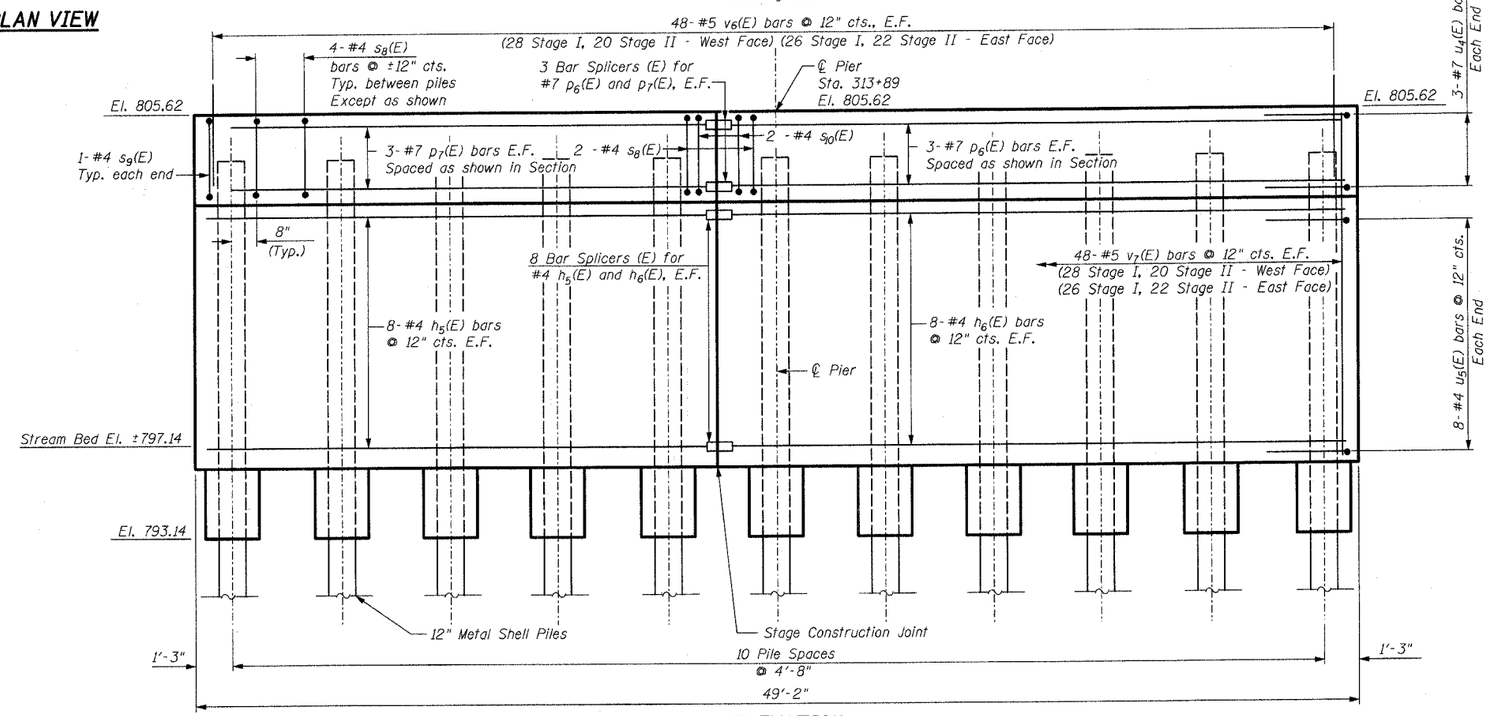


SECTION THRU PIER



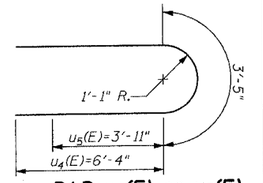
TOP PLAN

(Showing pier cap reinforcement)
(Looking East)

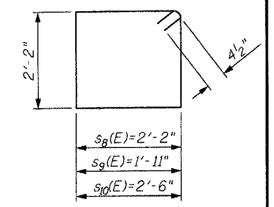


ELEVATION

(Looking East)



BAR u_4(E) or u_5(E)



BAR s_8(E), s_9(E), & s_{10}(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_5(E)	16	#4	19'-6"	
h_6(E)	16	#4	25'-6"	
p_6(E)	6	#7	25'-6"	
p_7(E)	6	#7	19'-6"	
s_8(E)	38	#4	9'-5"	
s_9(E)	2	#4	8'-11"	
s_{10}(E)	2	#4	10'-1"	
u_4(E)	6	#7	16'-1"	
u_5(E)	16	#4	11'-3"	
v_6(E)	96	#5	3'-6"	
v_7(E)	104	#5	9'-1"	

Concrete Structures	Cu. Yd.	46.7
Reinforcement Bars, Epoxy Coated	Pound	2950
Structure Excavation	Cu. Yd.	18
Driving and Filling Shells	Foot	550
Furnishing Metal Pile Shells 12"	Foot	550
Underwater Structure Excavation Protection - Location 2	Each	1

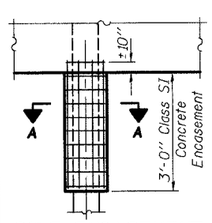
Reinforcement Bars designated (E) shall be epoxy coated.

NOTES

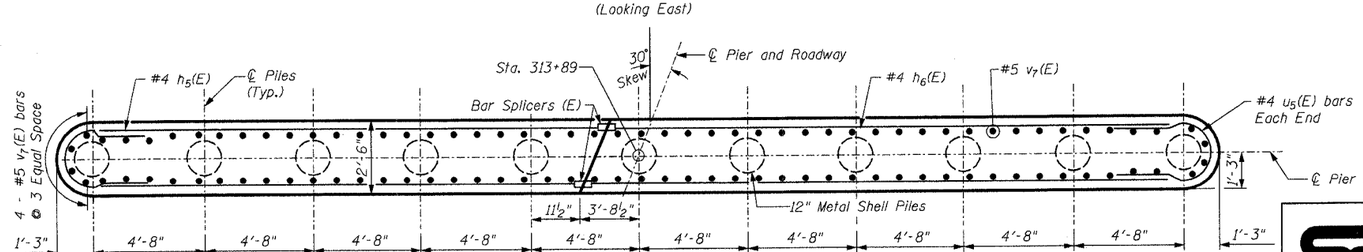
Use bar splicers (E) for all bars crossing stage construction line. Typical for p_6(E), p_7(E), h_5(E) and h_6(E) bars. See Sheet 9A of 10 for Bar Splicer Assembly Details.
(6 required for p bars)
(16 required for h bars)

MIN. LAP

#4 2'-5"
#7 4'-10"



PILE ENCASEMENT DETAIL ELEVATION VIEW



PILE PLAN

(Showing Pier Wall Reinforcement)

DESIGNED	KJW
CHECKED	AJS
DRAWN	KJW
CHECKED	AJS

STRAND ASSOCIATES, INC. ENGINEERS

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER
IL 64 OVER KILBUCK CREEK
F.A.P. RTE. 17 SECTION (123WPH) BR-2
OGLE COUNTY
STA. 313+89
S.N. 071-0092

SCALE:
DATE: 06/23/2004