ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 17	(123WPH) BR-1	OGLE	61	35
FEDERAL ROAD DISTRICT NUMBER 7		ILLINOIS	FEDERAL AID PROJECT -	

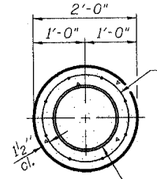
SHEET NO. 8
10 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE DATA

Type: Metal Shell Pile 12"
Capacity: 40 Tons Design ✳
Driven to 45 Tons Bearing
Est. Length: 51 Ft.
No. Req'd: 11

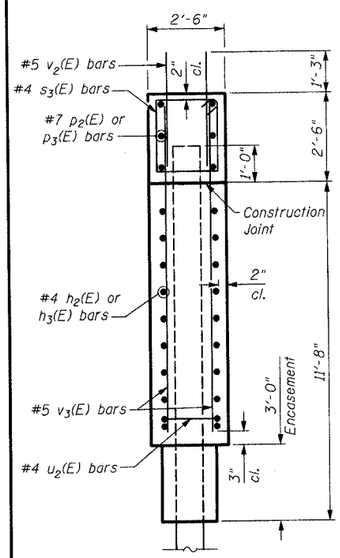
✳ The Design Capacity is limited to Allow for Scour.



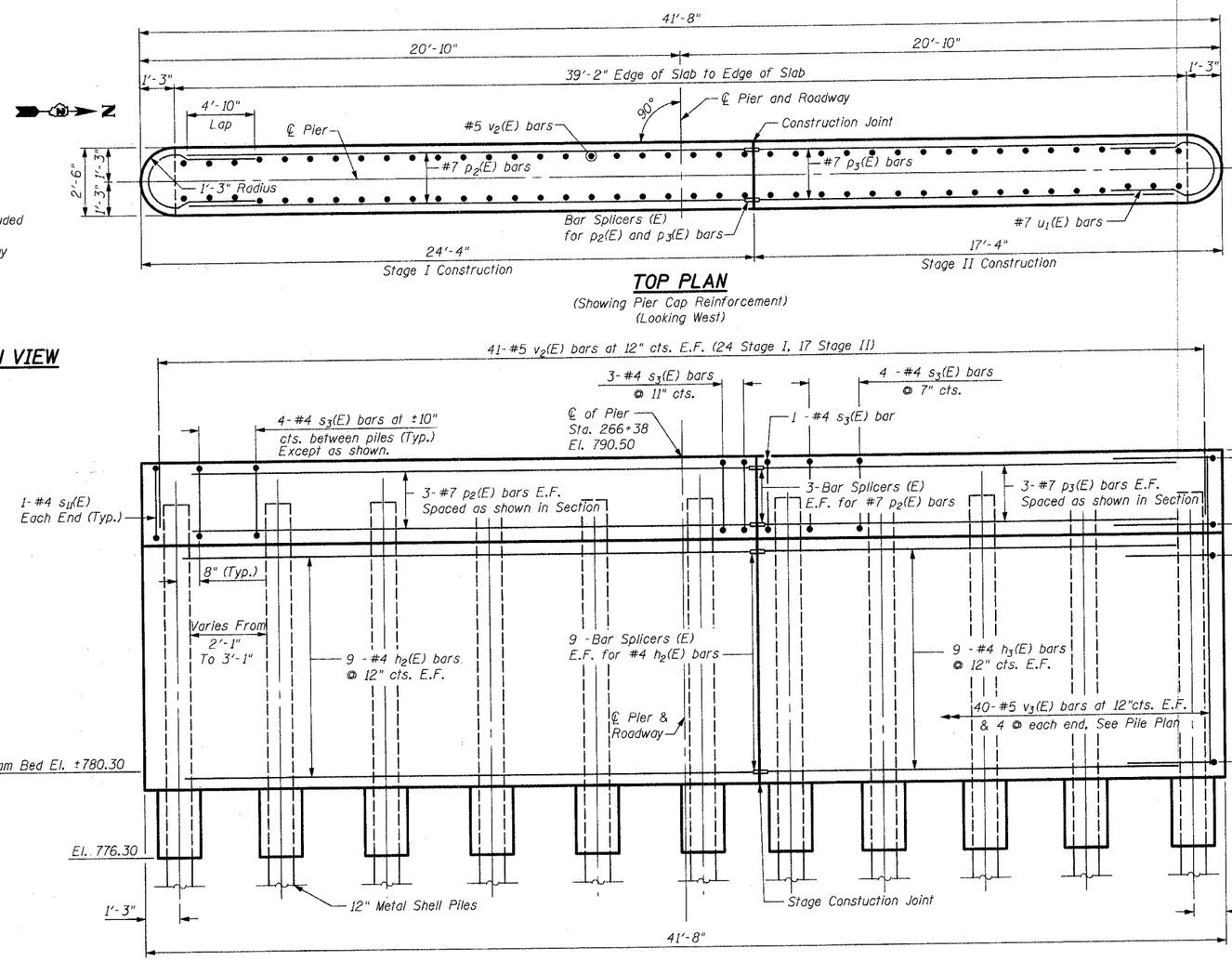
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT DETAIL - PLAN VIEW

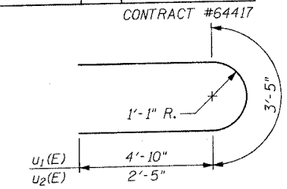


SECTION THRU PIER

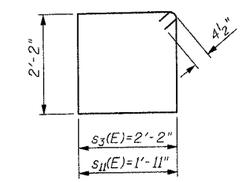


TOP PLAN
(Showing Pier Cap Reinforcement)
(Looking West)

ELEVATION
(Looking West)



BARS u1(E) & u2(E)



BAR s3(E) & s11(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	18	#4	22'-11"	
h3(E)	18	#4	15'-11"	
p2(E)	6	#7	22'-11"	
p3(E)	6	#7	15'-11"	
s3(E)	40	#4	9'-5"	
s11(E)	2	#4	8'-11"	
u1(E)	6	#7	13'-1"	
u2(E)	18	#4	8'-3"	
v2(E)	82	#5	3'-7"	
v3(E)	88	#5	10'-9"	
Concrete Structures			Cu. Yd.	46.0
Reinforcement Bars, Epoxy Coated			Pound	2760
Structure Excavation			Cu. Yd.	16
Driving and Filling Shells			Foot	561
Furnishing Metal Pile Shells 12"			Foot	561
Underwater Structure Excavation Protection - Location 1			Each	1

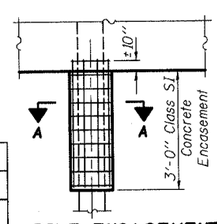
Reinforcement Bars designated (E) shall be epoxy coated.

Notes:

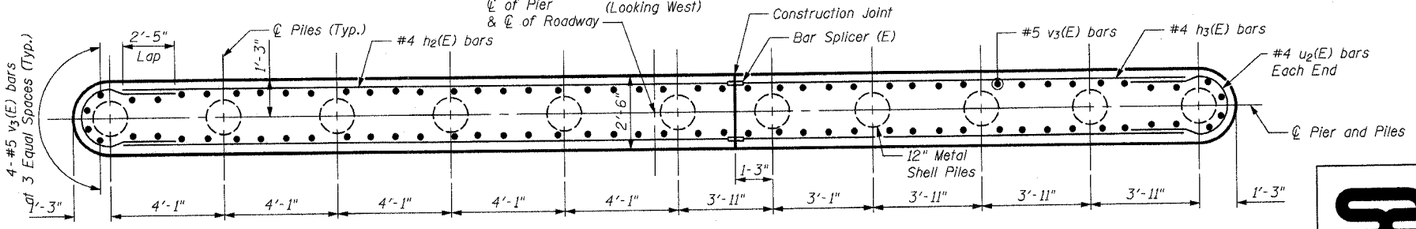
Use bar splicers (E) for all bars crossing stage construction line. Typical for p2(E), p3(E), h2(E) and h3(E) bars. See sheet 9A for bar splicer details.
(6 required for p bars)
(18 required for h bars)

MIN. LAP

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



PILE ENCASEMENT DETAIL ELEVATION VIEW



PILE PLAN
(Showing Pier Wall Reinforcement)
(Looking West)

DESIGNED	KJW
CHECKED	AJS
DRAWN	KJW
CHECKED	AJS

STRAND ASSOCIATES, INC. ENGINEERS

ILLINOIS DEPARTMENT OF TRANSPORTATION
PIER
IL 64 OVER TRIBUTARY TO KILBUCK CREEK
F.A.P. RTE. 17 SECTION (123WPH) BR-1
OGLE COUNTY
STA. 266+38
S.N. 071-0091

SCALE:
DATE: 06/23/2004