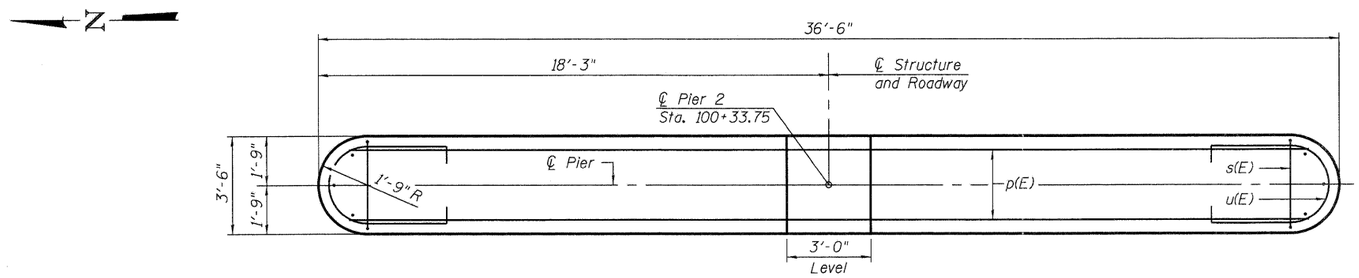
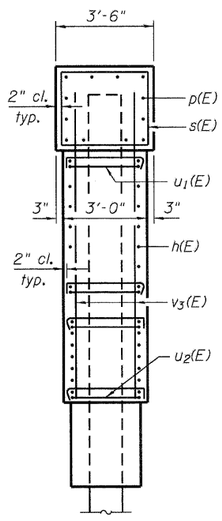
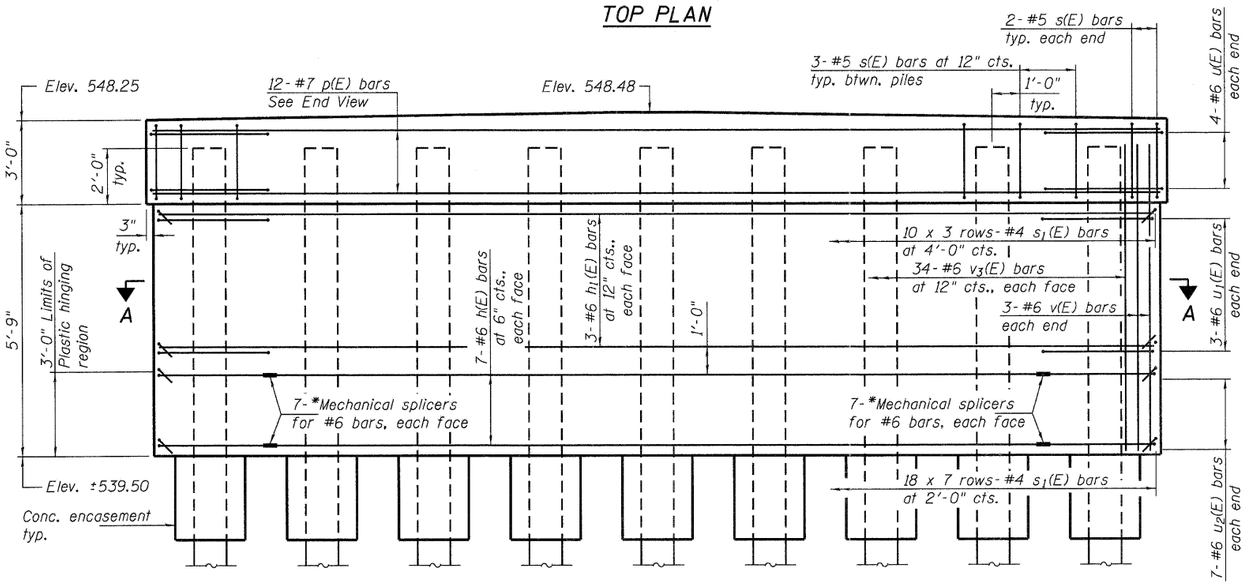


TOP PLAN

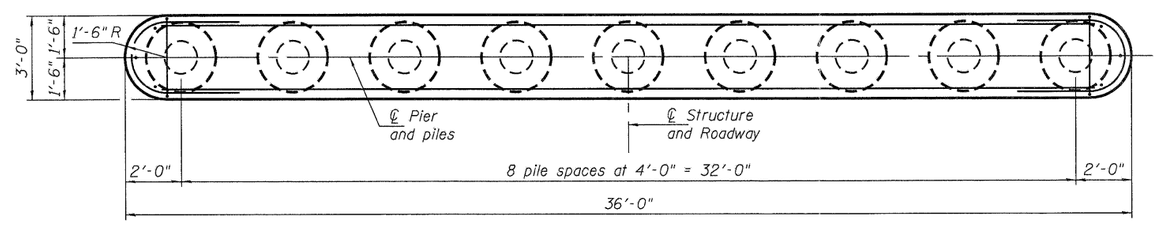


END VIEW

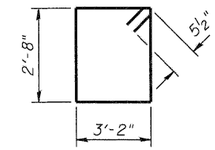


ELEVATION

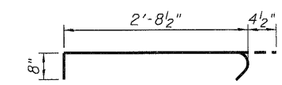
* As an alternate to the Mechanical splicers shown, the Contractor may provide shop welded splices in accordance with AWS D1.4.



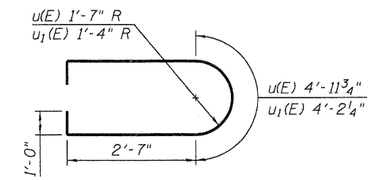
SECTION A-A



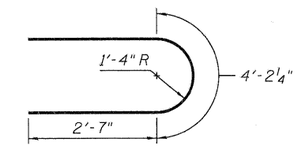
BAR s(E)



BAR s1(E)



BARS u(E) & u1(E)



BARS u2(E)

PIER 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#6	27'-10"	
h1(E)	6	#6	33'-0"	
p(E)	12	#7	33'-0"	
s(E)	28	#5	12'-7"	
s1(E)	156	#4	3'-9"	
u(E)	8	#6	12'-2'	
u1(E)	6	#6	11'-5"	
u2(E)	14	#6	9'-5"	
v3(E)	74	#6	7'-7"	
Structure Excavation		Cu. Yd.	10	
Concrete Structures		Cu. Yd.	34.2	1
Concrete Encasement		Cu. Yd.	2.9	
Reinforcement Bars, Epoxy Coated		Pound	3,740	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	576	
Driving Piles		Foot	576	
Test Pile Metal Shells		Each	1	
Mechanical Splicers		Each	28	

PILE DATA

Type: Metal Shell - 14" ϕ x 0.312" walls
Nominal Required Bearing: 386 kips
Factored Resistance Available: 198 kips
Est. Length: 72 ft.
No. Production Piles: 8
No. Test Piles: 1

USER NAME = dhebarling	DESIGNED - TJZ	REVISED - 1 11-8-11 S.D.S.	
FILE NAME = D6_SN0840480.dgn	CHECKED - SDS	REVISED -	
PLOT DATE = 11/8/2011	DRAWN - DLH	REVISED -	
PLOT TIME = 4:18:57 PM	CHECKED - TJZ/SDS	REVISED -	

WHKS & CO. ENGINEERING
7018 KINGSMILL CT., SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2
STRUCTURE NO. 084-0480
SHEET NO. 8 OF 11 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	08-00119-04-BR	SANGAMON	25	15

CONTRACT NO. 93556
ILLINOIS FED. AID PROJECT