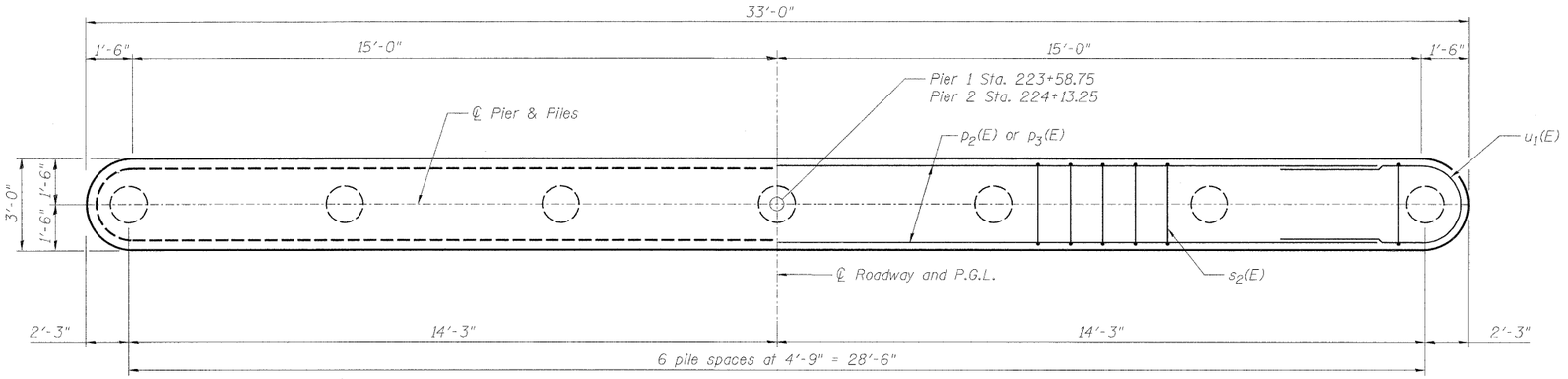
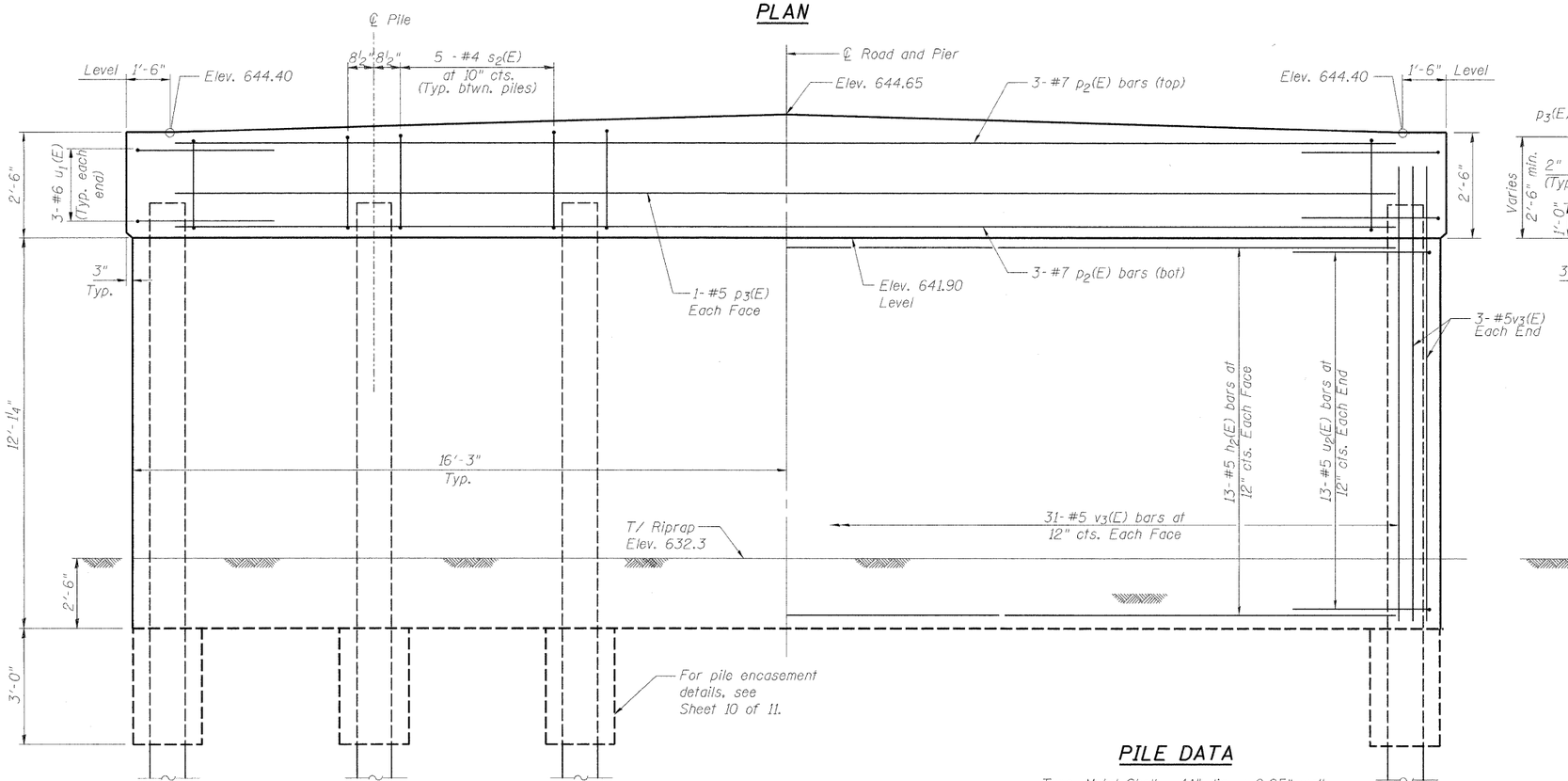


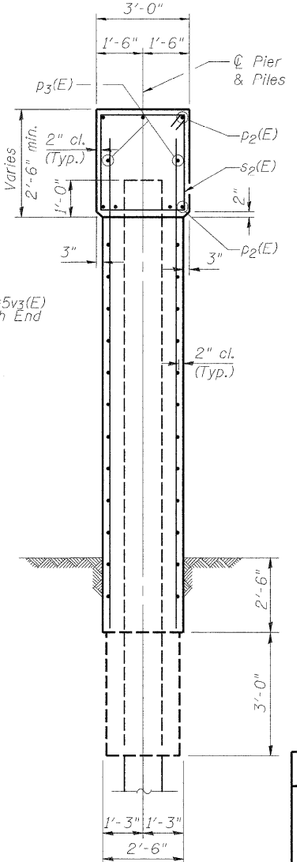
PLAN



ELEVATION

PILE DATA

Type: Metal Shell - 14" dia. x 0.25" wall
Nominal Required Bearing: 401 kips
Allowable Resistance Available: 183 kips
Est. Length: 65 ft.
No. Production Piles: 12 (6 at each Pier)
No. Test Piles: 2 (One at each Pier)



SECTION THRU PIER

MIN. BAR LAP

#5 - 1'-8"

BILL OF MATERIAL FOR TWO PIERS

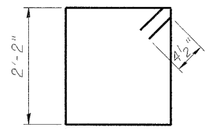
Bar	No.	Size	Length	Shape
h_2(E)	52	#5	30'-0"	——
p_2(E)	12	#7	30'-0"	——
p_3(E)	4	#5	30'-0"	——
s_2(E)	60	#4	10'-5"	□
u_1(E)	12	#6	9'-11"	⊂⊃
u_2(E)	52	#5	8'-5"	⊂⊃
v_3(E)	136	#5	13'-6"	——
Reinforcement Bars, Epoxy Coated			Pound	5460
Concrete Structures			Cu. Yd.	83.2
Concrete Encasement			Cu. Yd.	6.0
Furnishing Metal Shells			Foot	780
Driving Piles			Foot	780
Test Pile, Metal Shell			Each	2
Underwater Structure Excavation Protection - Location 1			Each	2

NOTES:

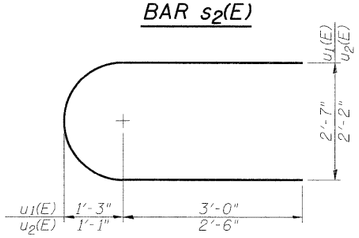
See Sheet 10 of 11 for Pile Details.

Space cap reinforcement to miss Dowel Rods.

If a portion of the pier wall or 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.



BAR s_2(E)



BAR u_1(E) & u_2(E)

PILE BENT PIER DETAILS

LYNDON ROAD BRIDGE
OVER ROCK CREEK
F.A.S. ROUTE 76
SECTION 06-00183-00-BR
WHITESIDE COUNTY, ILLINOIS
STRUCTURE NUMBER 098-3077
STATION 223+86.00

LAYOUT	SMK	09/11/09
DRAWN	JDM	12/11/09
REVIEWED	SMK	12/11/09

12/10/2009
I:\08Jobs\08L0156\CADD\Struct\Sheet\S-009-Pier Detail.dgn

Corporate License Number 184-001-084

JOB NO. 08L0156
DATE 12/11/09

© Copyright Hanson Professional Services Inc. 2009

HANSON

SHEET NO. 9
11 SHEETS

F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
76	06-00183-00-BR	Whiteside	21	16
		CONTRACT NO. 85506		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		