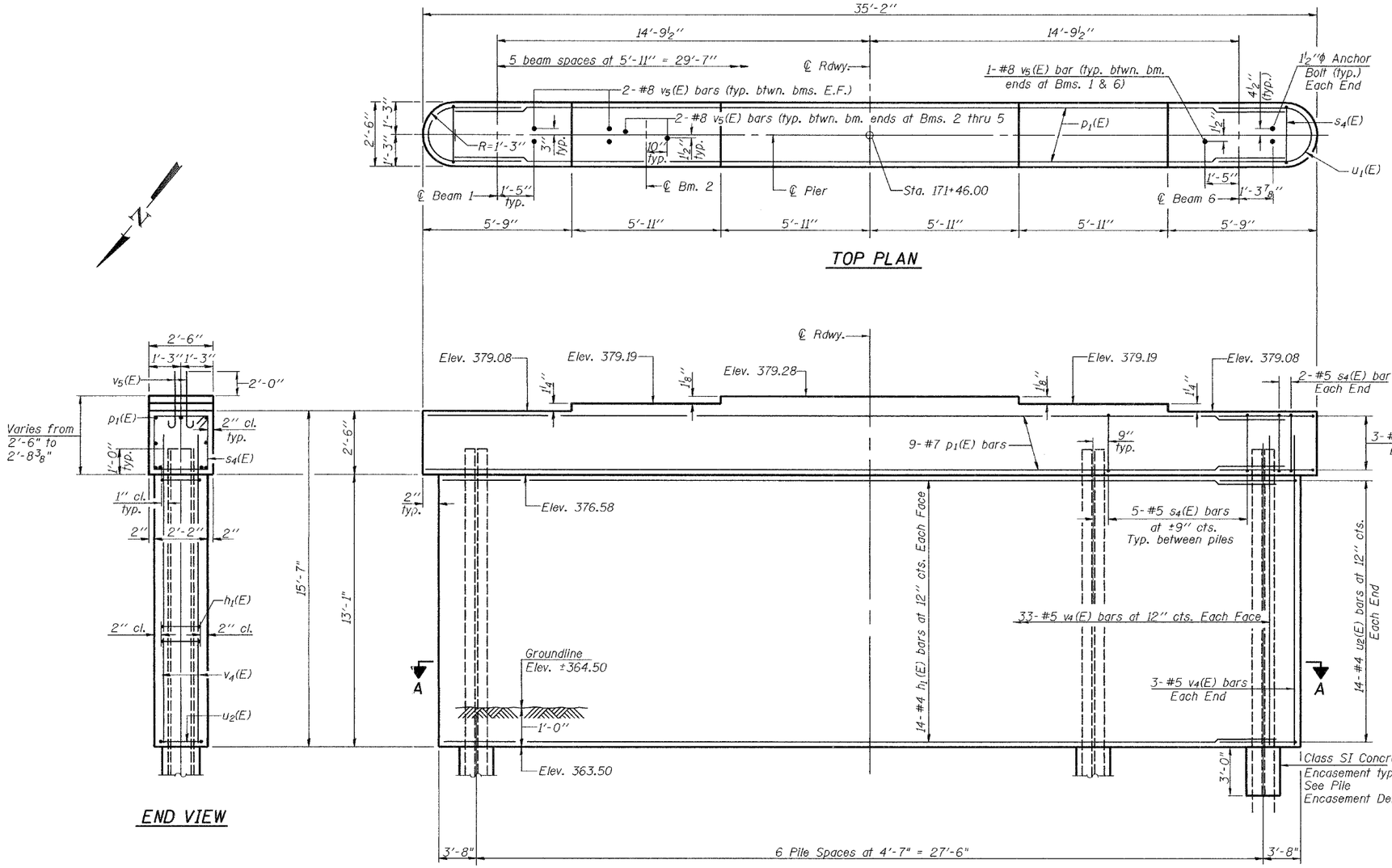
Notes: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For anchor bolt installation details see sheet 11 of 27.

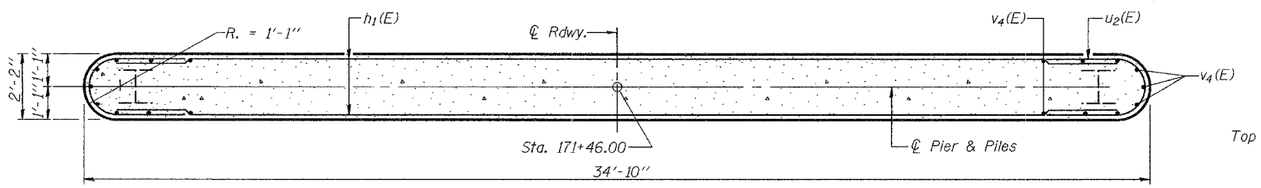
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 857	101BR-6	WHITE	100	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

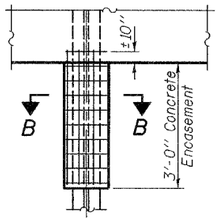
SHEET NO. 20
27 SHEETS

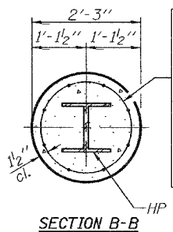
Contract #98960





SECTION A-B



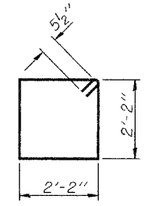


Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit.

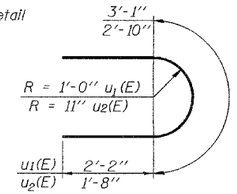
PILE ENCASEMENT DETAIL

PILE DATA

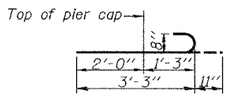
Pile Type: Steel HP 14 x 102
Nominal Required Bearing: = 736 kips
Factored Resistance Available: = 368 kips
Est. Length: 66'
No. of Production Piles: 7



BAR $s_4(E)$



BARS $u_1(E)$ & $u_2(E)$



BAR $v_5(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	28	#4	32'-6"	
$p_1(E)$	9	#7	32'-8"	
$s_4(E)$	29	#5	9'-7"	
$u_1(E)$	6	#5	7'-5"	
$u_2(E)$	28	#4	6'-2"	
$v_4(E)$	72	#5	14'-4"	
$v_5(E)$	30	#8	4'-2"	
Concrete Structures			Cu. Yd.	44.2
Reinforcement Bars, Epoxy Coated			Pound	3070
Furnishing Steel Piles HP14x102			Foot	462
Driving Piles			Foot	462
Structure Excavation			Cu. Yd.	8.9
Underwater Structure Excavation Protection Location 2			Each	1
Concrete Encasement			Cu. Yd.	2.9

DESIGNED	W. A. Beisner
CHECKED	Fesseha Teklehaimanot
DRAWN	R. Sommer
CHECKED	WAB/FT

December 4 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER 2
F.A.P. RT. 857 SEC. 101BR-6
WHITE COUNTY
STATION 171+58.50
STRUCTURE NO. 097-0071

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