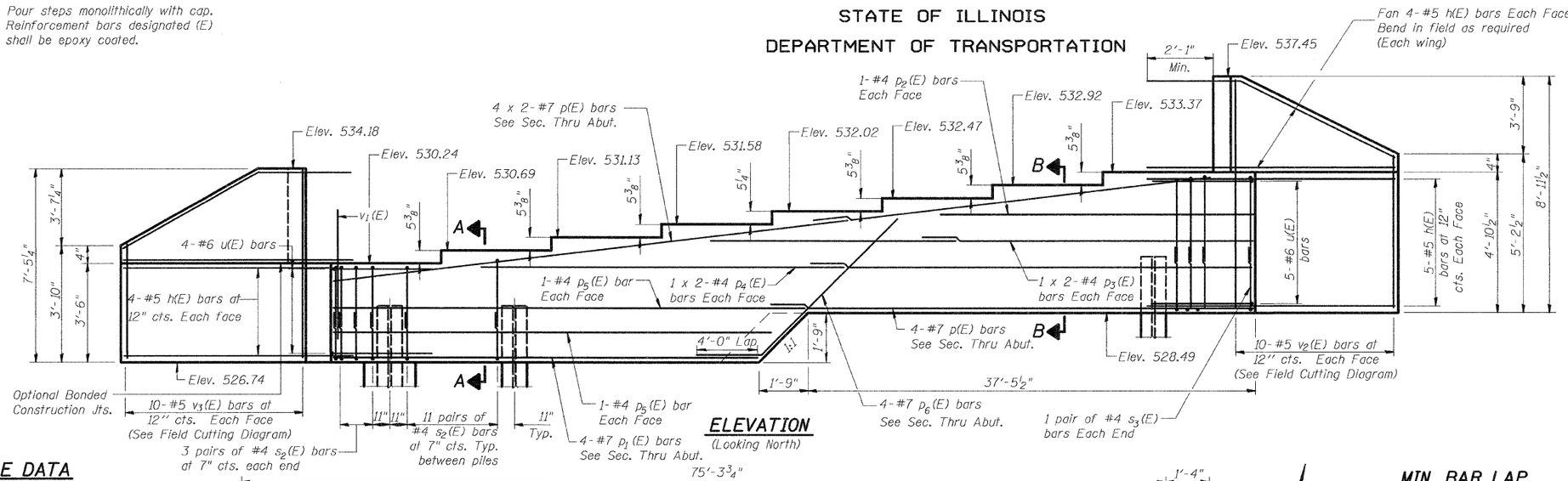
Notes: Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	60-(16B, 16-1B)	MADISON	62	41
	STA. 165+71.94			
FED. ROAD DIST.	ILLINOIS	FED. AID PROJECT		

Sheet No. 10
13 Sheets

CONTRACT NO. 76567



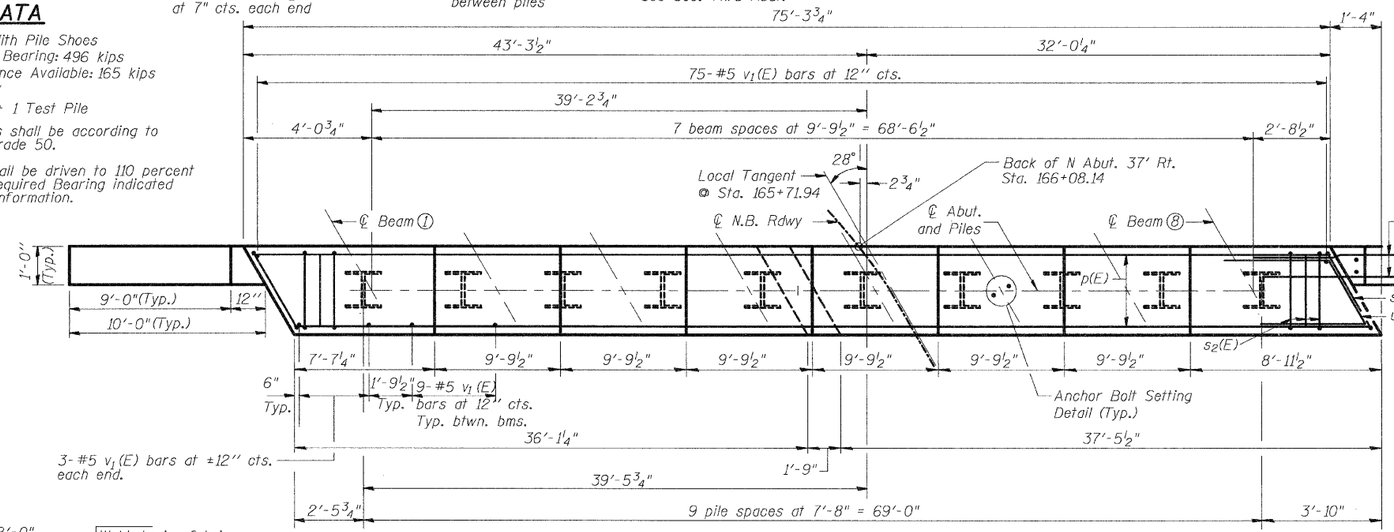
ELEVATION
(Looking North)

PILE DATA

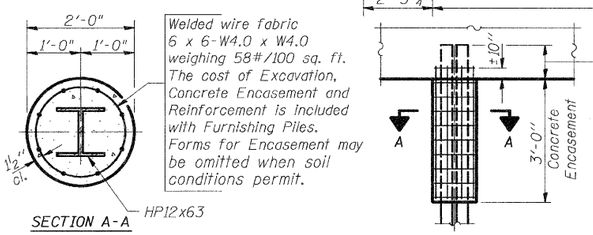
Type: HP12x63 With Pile Shoes
Nominal Required Bearing: 496 kips
Allowable Resistance Available: 165 kips
Est. Length: 39'
No. Required: 9 + 1 Test Pile

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

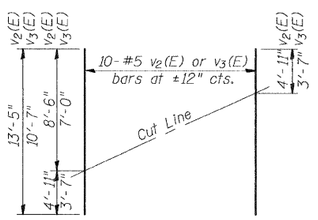
The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.



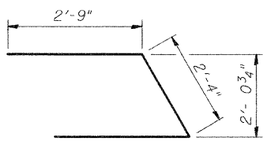
PLAN



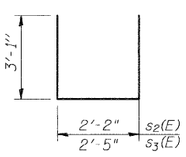
PILE ENCASEMENT DETAIL



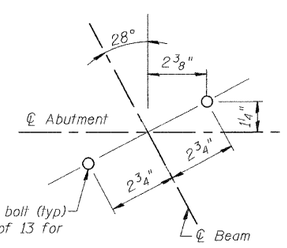
FIELD CUTTING DIAGRAM
Order $v_2(E)$ & $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)

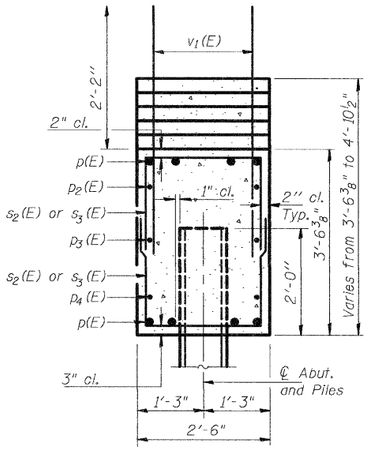


BARS $s_2(E)$ & $s_3(E)$

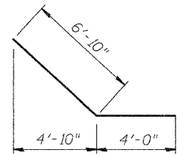


ANCHOR BOLT SETTING DETAIL

MIN. BAR LAP
#4 BAR = 2'-5"
#7 BAR = 4'-10"



SECTION B-B
(Dimensions @ Right Angles)

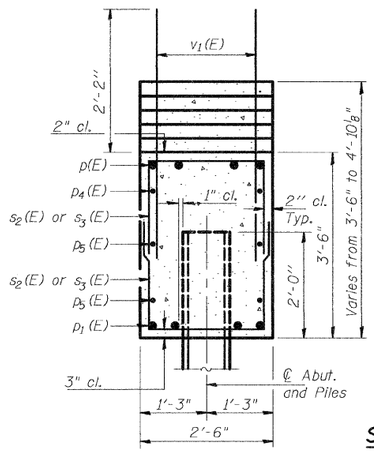


BAR $p_6(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	34	#5	12'-11"	
p(E)	12	#7	39'-11"	
$p_1(E)$	4	#7	37'-0"	
$p_2(E)$	2	#4	21'-10"	
$p_3(E)$	4	#4	22'-8"	
$p_4(E)$	4	#4	33'-2"	
$p_5(E)$	4	#4	37'-10"	
$p_6(E)$	4	#7	10'-10"	
$s_2(E)$	210	#4	8'-4"	
$s_3(E)$	4	#4	8'-7"	
u(E)	9	#6	7'-10"	
$v_1(E)$	144	#5	4'-4"	
$v_2(E)$	10	#5	13'-5"	
$v_3(E)$	10	#5	10'-7"	
Concrete Structures			Cu. Yd.	34.5
Reinforcement Bars Epoxy Coated			Pound	4430
Structure Excavation			Cu. Yd.	30.6
Furnishing Steel Piles HP12x63			Foot	351
Driving Piles			Foot	351
Test Piles HP 12x63			Each	1
Pile Shoes			Each	9

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



SECTION A-A
(Dimensions @ Right Angles)

NORTH ABUTMENT
FAP 310 (US 67) OVER
SOUTH BRANCH OF PIASA CREEK
SECTION 60-(16B, 16-1B)
MADISON COUNTY STA 165+71.94
SN 060-0329

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

AI-L 2-14-01

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