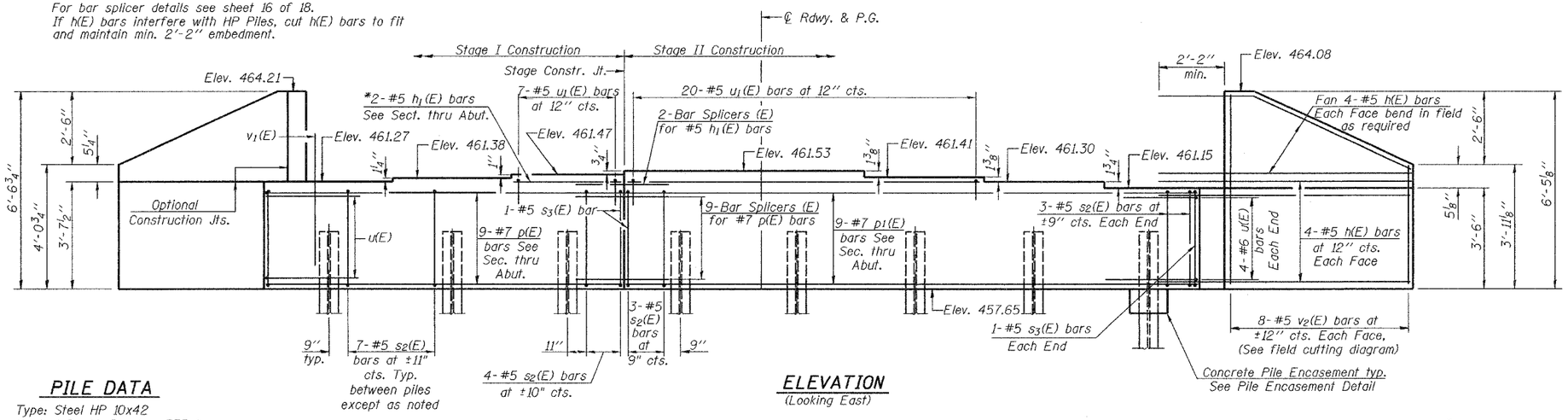
Notes: Pour steps monolithically with cap.
Reinforcement bars designated (E) shall be epoxy coated.
For anchor bolt installation details see sheet 11 of 18.
For bar splicer details see sheet 16 of 18.
If h(E) bars interfere with HP Piles, cut h(E) bars to fit and maintain min. 2'-2" embedment.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

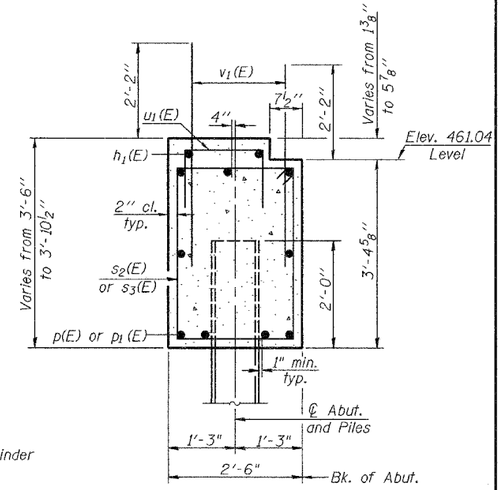
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	36
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 13
18 SHEETS
Contract #76394



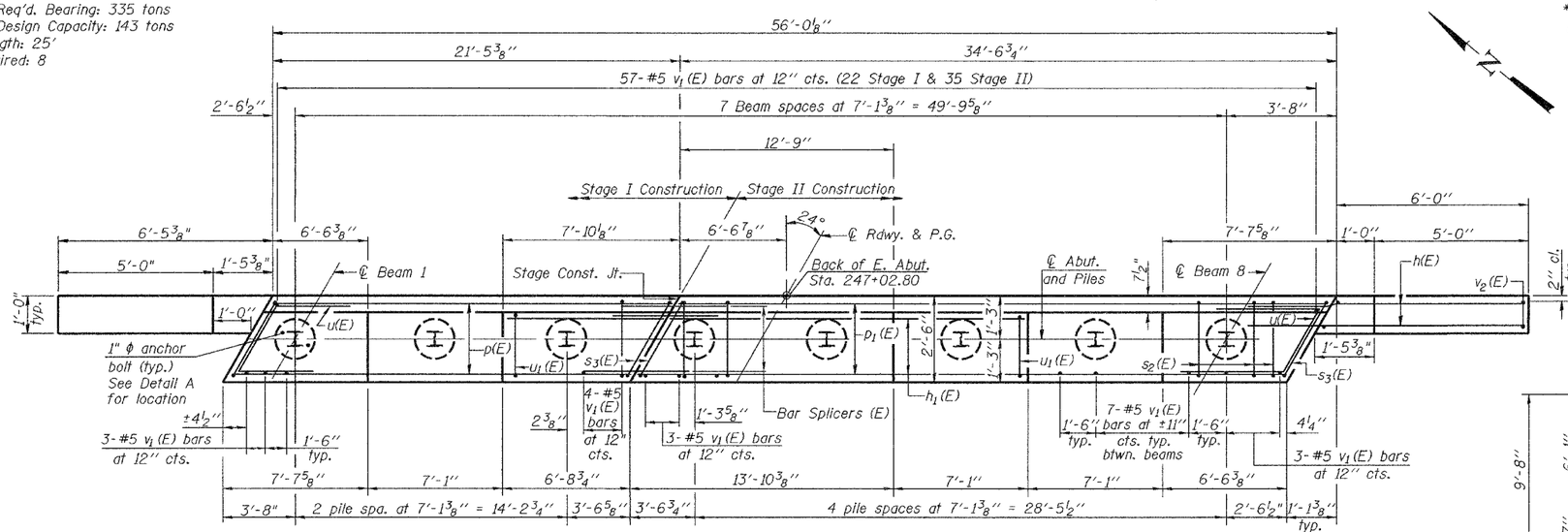
ELEVATION
(Looking East)

PILE DATA
Type: Steel HP 10x42
Nominal Req'd. Bearing: 335 tons
Nominal Design Capacity: 143 tons
Est. Length: 25'
No. Required: 8

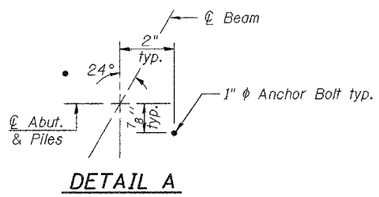


SEC. THRU ABUT.

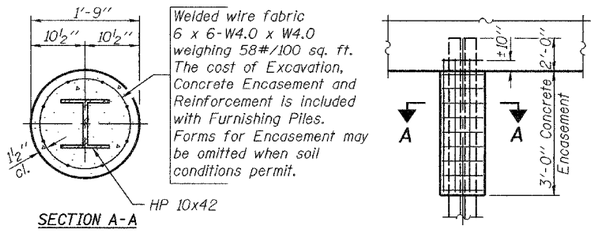
*Cut to fit and use remainder of bars in Stage II.



PLAN

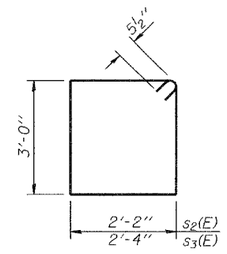


DETAIL A

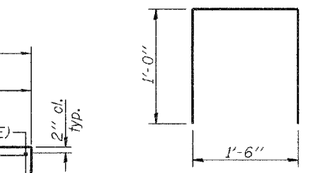


SECTION A-A

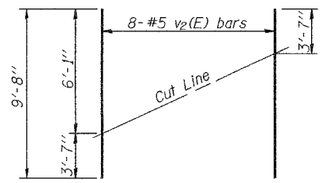
PILE ENCASEMENT DETAIL



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

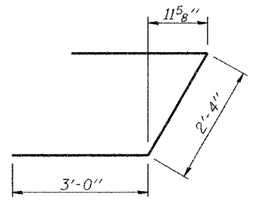


BAR $u_1(E)$



FIELD CUTTING DIAGRAM

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



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-1"	
$h_1(E)$	2	#5	27'-0"	
p(E)	9	#7	21'-1"	
$p_1(E)$	9	#7	34'-2"	
$s_2(E)$	55	#5	11'-3"	
$s_3(E)$	4	#5	11'-7"	
u(E)	8	#6	8'-4"	
$u_1(E)$	27	#5	3'-6"	
$v_1(E)$	112	#5	4'-4"	
$v_2(E)$	16	#5	9'-8"	
Concrete Structures			Cu. Yd.	21.3
Reinforcement Bars Epoxy Coated			Pound	2940
Structure Excavation			Cu. Yd.	102
Furnishing Steel Piles HP10x42			Foot	200
Driving Piles			Foot	200

DESIGNED	Rebecca Tharp
CHECKED	Curt Evoy
DRAWN	R. Sommer
CHECKED	RLT/CME

March 16 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT
F.A.U. ROUTE 9251 - SECTION 28-3BR-I
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

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