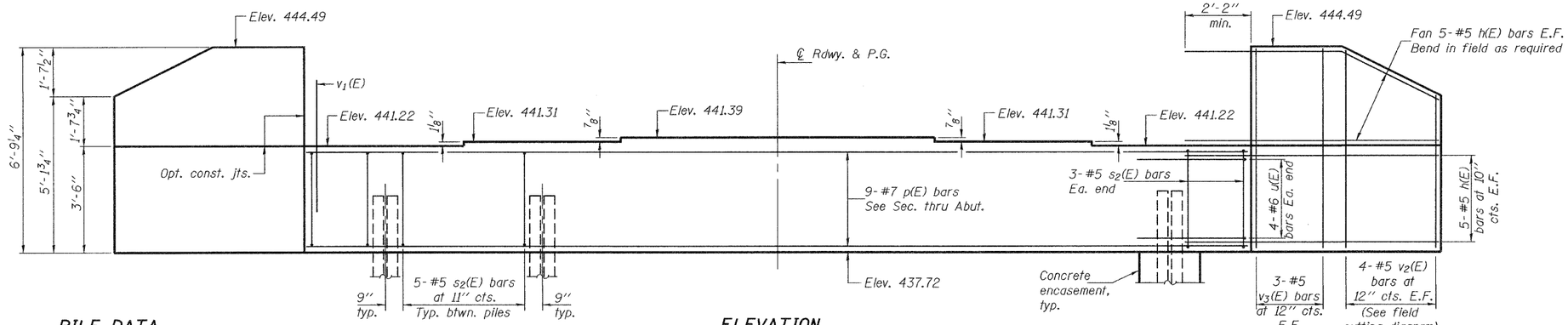
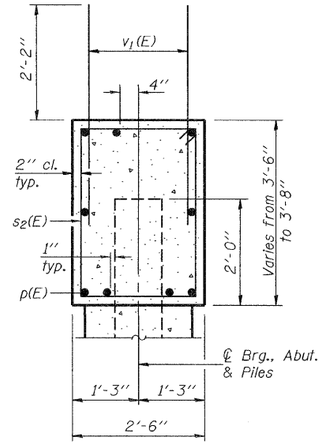
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



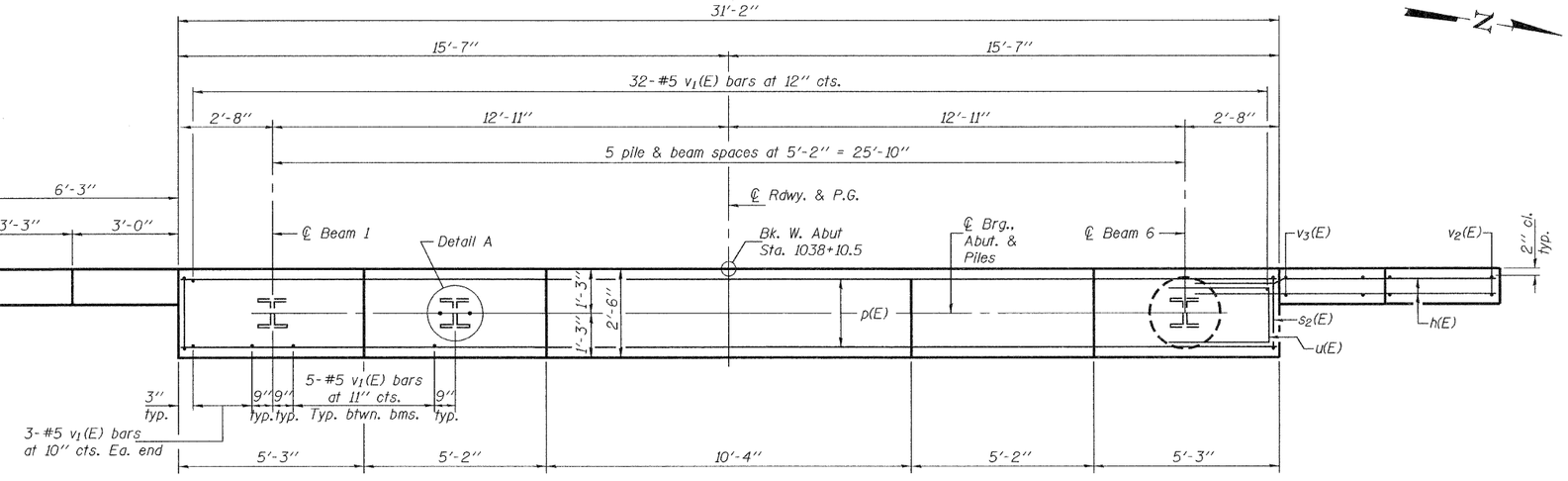
ELEVATION

PILE DATA

Type: Steel HP10x42 with pile shoes
Nominal Required Bearing: 280 Kips
Factored Resistance Available: 140 Kips
Est. Length: 83'
No. Production Piles: 5
No. Test Piles: 1



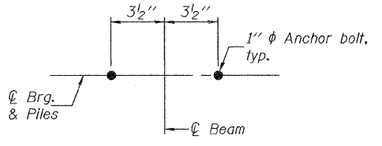
SEC. THRU ABUT.



PLAN

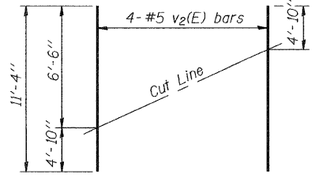
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	8'-7"	——
p(E)	9	#7	30'-10"	——
s2(E)	31	#5	11'-7"	⌐
u(E)	8	#6	8'-0"	⊐
v1(E)	63	#5	4'-4"	——
v2(E)	8	#5	11'-4"	——
v3(E)	12	#5	6'-6"	——
Structure Excavation		Cu. Yd.	58	
Concrete Structures		Cu. Yd.	13.3	
Reinforcement Bars, Epoxy Coated		Pound	1860	
Furnishing Steel Piles, HP 10x42		Foot	415	
Driving Piles		Foot	415	
Test Pile, HP 10x42		Each	1	
Pile Shoes		Each	6	
Concrete Encasement		Cu. Yd.	2.1	
Anchor Bolts, 1" ϕ		Each	12	



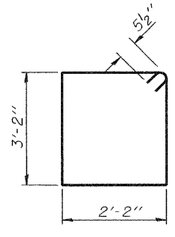
DETAIL A

Notes: Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 18 of 22.
For details of bar splicers, see sheet 19 of 22.

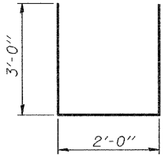


FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s2(E)



BAR u(E)

DESIGNED	Phillip R. Litchfield
CHECKED	Ray Ahanchi
DRAWN	htd Gregory D. Farmer
CHECKED	PRL/GRA/JDE

Sep. 9, 2010
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

WEST ABUTMENT
STRUCTURE NO. 013-0040

SHEET NO. 14	S.B.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	12	10B-1	CLAY	39	26
			CONTRACT NO. 74004		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

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