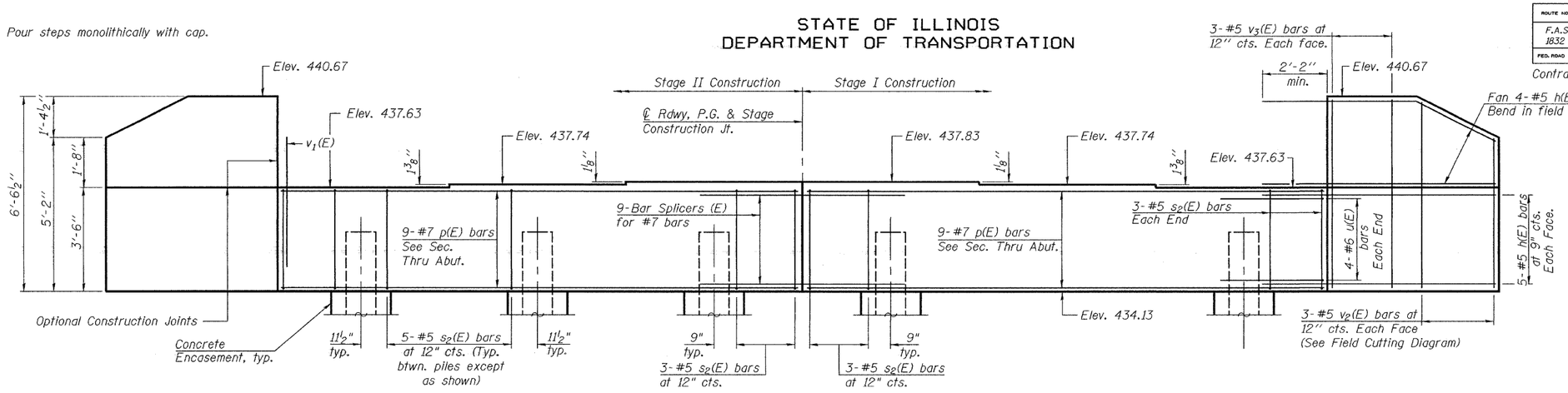
Notes: Pour steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

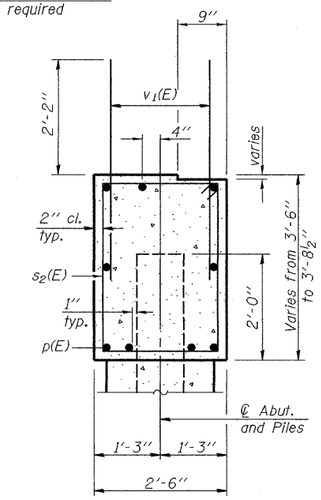
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1832	5BR-2	WASHINGTON	97	4D
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
18 SHEETS

Contract #76949



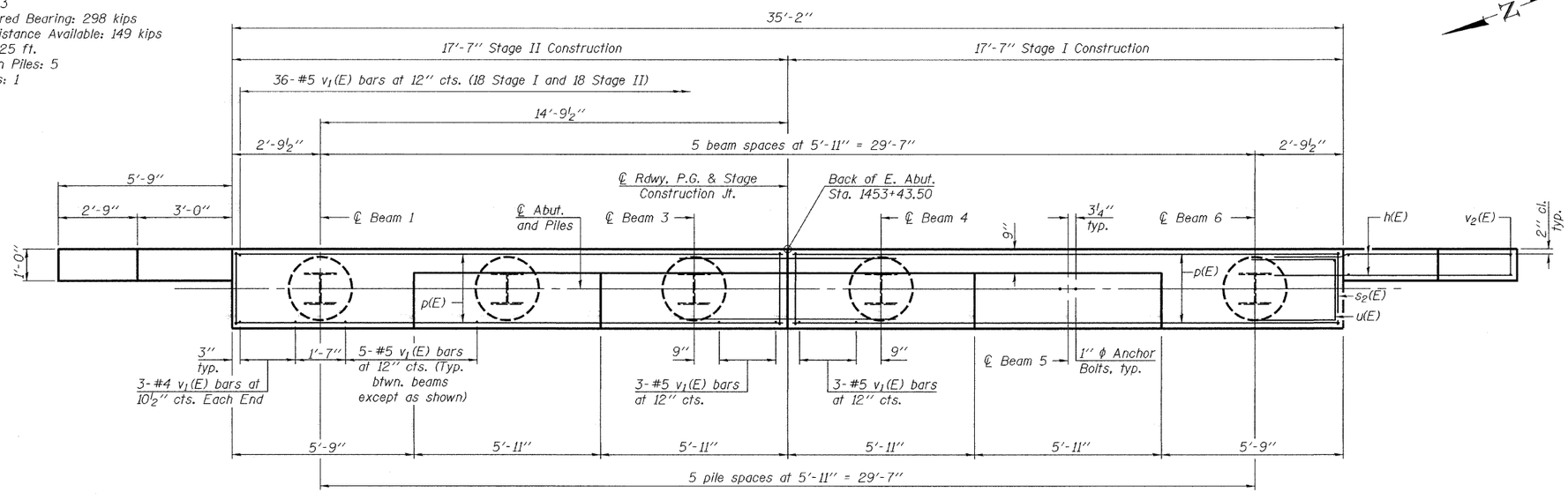
ELEVATION



SEC. THRU ABUT.

PILE DATA

Type: HP12x53
Nominal Required Bearing: 298 kips
Factored Resistance Available: 149 kips
Est. Length: 25 ft.
No. Production Piles: 5
No. Test Piles: 1



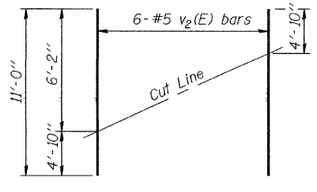
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	36	#5	8'-1"	
p(E)	18	#7	17'-3"	
s_2(E)	32	#5	11'-7"	
u(E)	8	#6	8'-1"	
v_1(E)	68	#5	4'-4"	
v_2(E)	6	#5	11'-0"	
v_3(E)	12	#5	6'-2"	
Structure Excavation		Cu. Yd.	70	
Concrete Structures		Cu. Yd.	14.4	
Reinforcement Bars, Epoxy Coated		Pound	1880	
Furnishing Steel Piles, HP12x53		Foot	125	
Driving Piles		Foot	125	
Test Pile Steel, HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	2.1	

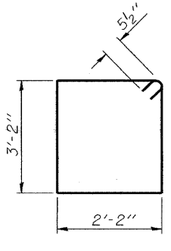
For details of Bar Splicers, see sheet 17 of 18.
For details of piles and Concrete Encasement, see sheet 15 of 18.

Note:
If h(E) bars interfere with Steel H-Piles, cut h(E) bars to fit and maintain min. 2'-2" embedment.

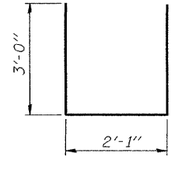


FIELD CUTTING DIAGRAM

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



BAR s_2(E)



BAR u(E)

DESIGNED	Phillip R. Litchfield
CHECKED	Nicholas R. Barnett
DRAWN	Gregory D. Farmer
CHECKED	PRL/NRB

January 28, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT
F.A.S. RTE. 1832 - SEC. 5BR-2
WASHINGTON COUNTY
STATION 1453+11.50
STRUCTURE NO. 095-0077

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