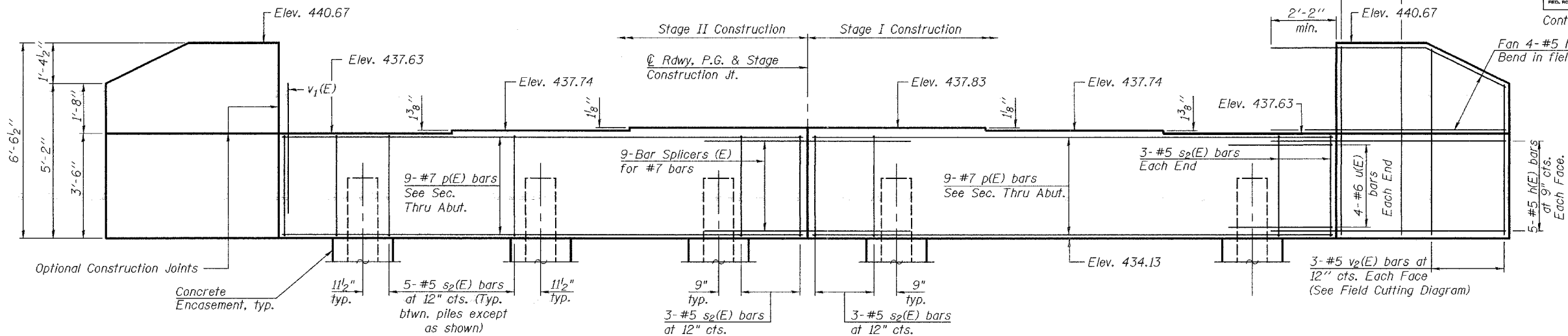


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 14
18 SHEETS

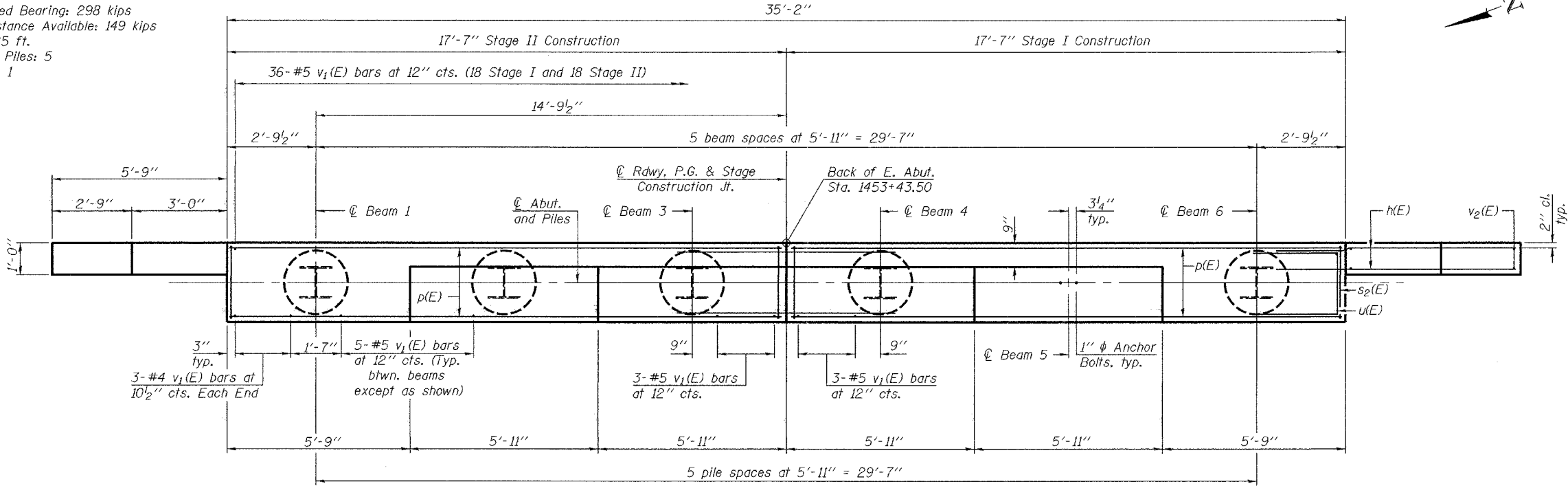
Notes: Pour steps monolithically with cap.



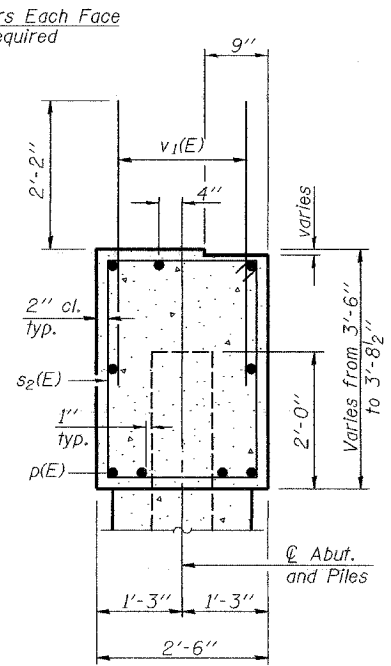
ELEVATION

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



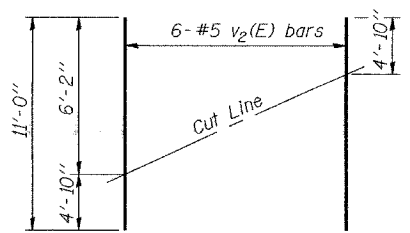
SEC. THRU ABUT.

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

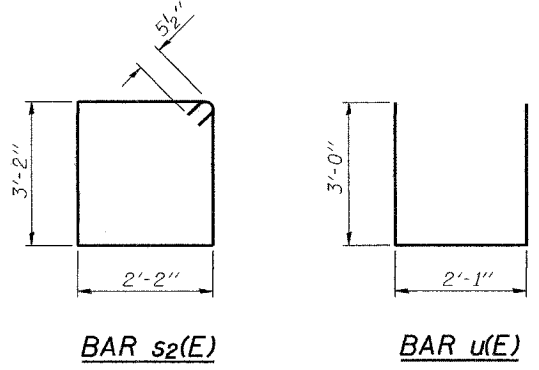
For details of Bar Splicers, see sheet 17 of 18.
For details of piles and Concrete Encasement, see sheet 15 of 18.

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

January 28, 2008
EXAMINED *Thomas J. Domagalicki*
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