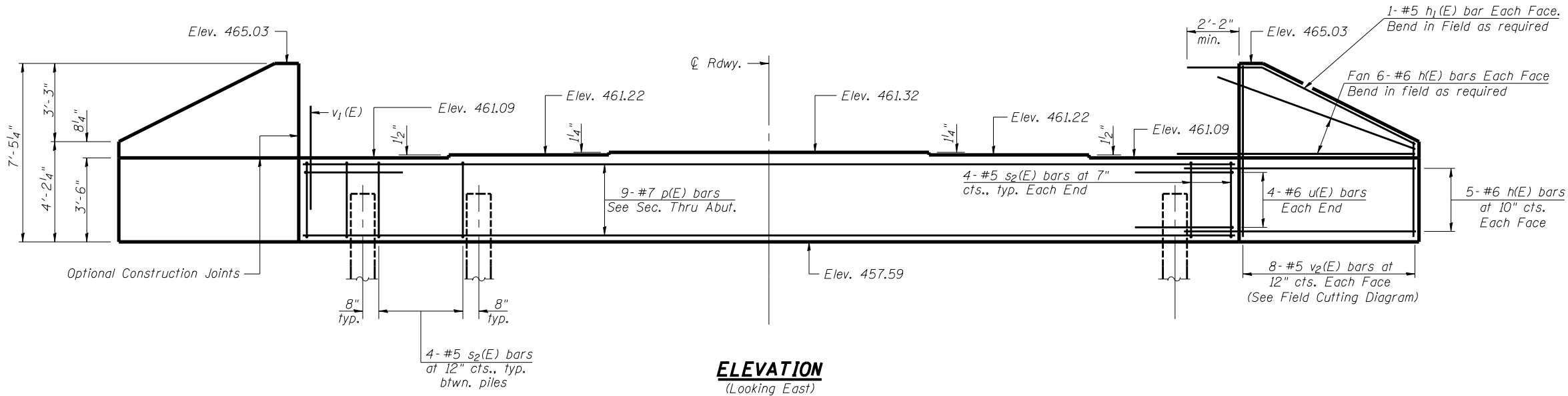


Notes: Four steps monolithically with cap.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 14 SHEETS
F.A.P. 751	10IB-2	PIKE	48	35	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

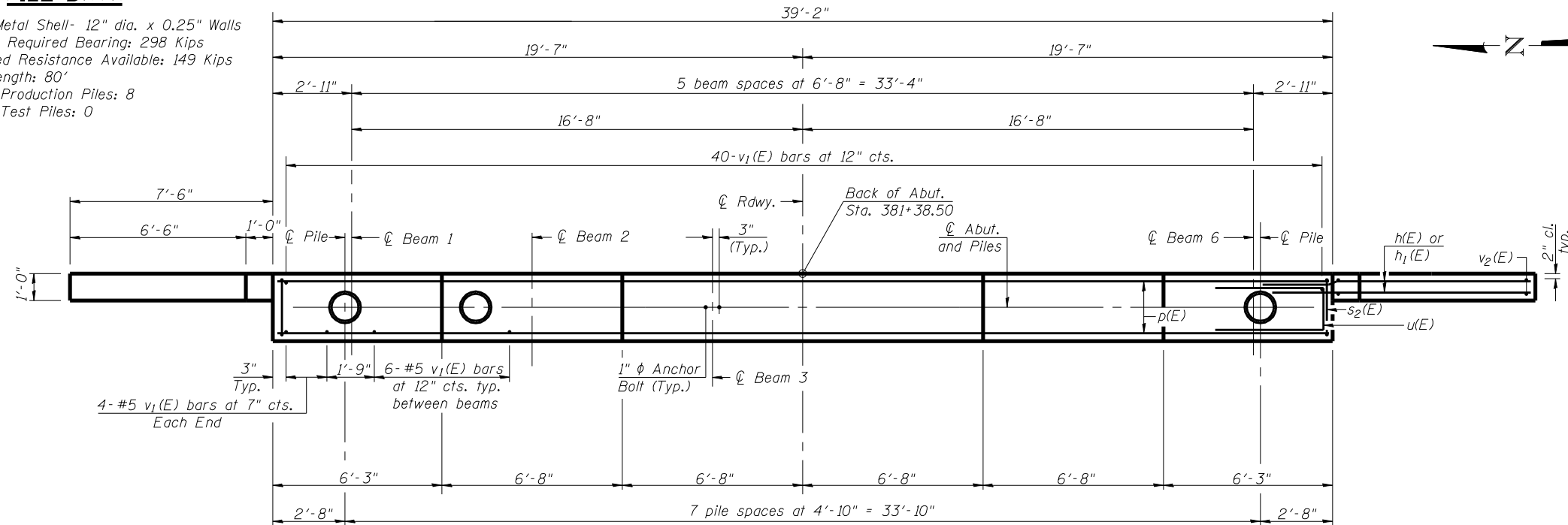
Contract #72928



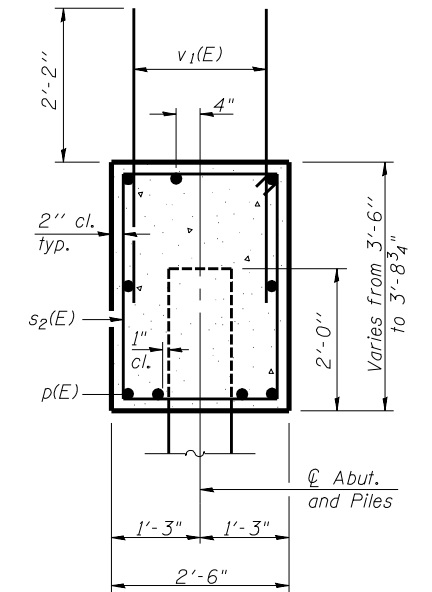
ELEVATION
(Looking East)

PILE DATA

Type: Metal Shell- 12" dia. x 0.25" Walls
Nominal Required Bearing: 298 Kips
Factored Resistance Available: 149 Kips
Est. Length: 80'
No. of Production Piles: 8
No. of Test Piles: 0



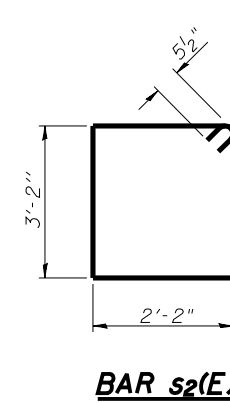
PLAN



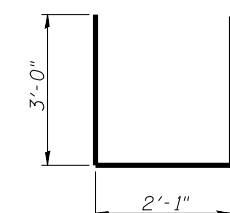
SEC. THRU ABUT.

BILL OF MATERIAL

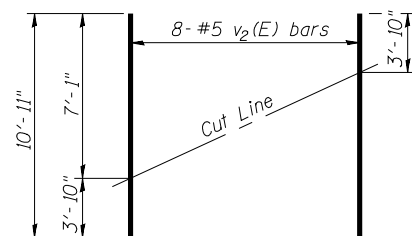
Bar	No.	Size	Length	Shape
h(E)	44	#6	9'-8"	—
h1(E)	4	#5	10'-3"	—
p(E)	9	#7	38'-10"	—
s2(E)	36	#5	11'-7"	□
u(E)	8	#6	8'-1"	—
v1(E)	78	#5	4'-4"	—
v2(E)	16	#5	10'-11"	—
Concrete Structures		Cu. Yd.	16.5	
Reinforcement Bars, Epoxy Coated		Pound	2460	
Structure Excavation		Cu. Yd.	86	
Anchor Bolts, 1"		Each	12	
Furnishing Metal Shell Piles, 12" φ x 0.25"		Foot	640	
Driving Piles		Foot	640	



BAR s2(E)



BAR u(E)



FIELD CUTTING DIAGRAM

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

Note: If h(E) bars interfere with Metal Shell piles, cut h(E) bars to fit and maintain minimum 2'-2" embedment.

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

August 30, 2007	
EXAMINED	Thomas J. Damagalli
PASSED	Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES	

EAST ABUTMENT
F..A.P. 751 SEC. 10IB-2
PIKE COUNTY
STATION 381+00.00
STRUCTURE NO. 075-0507