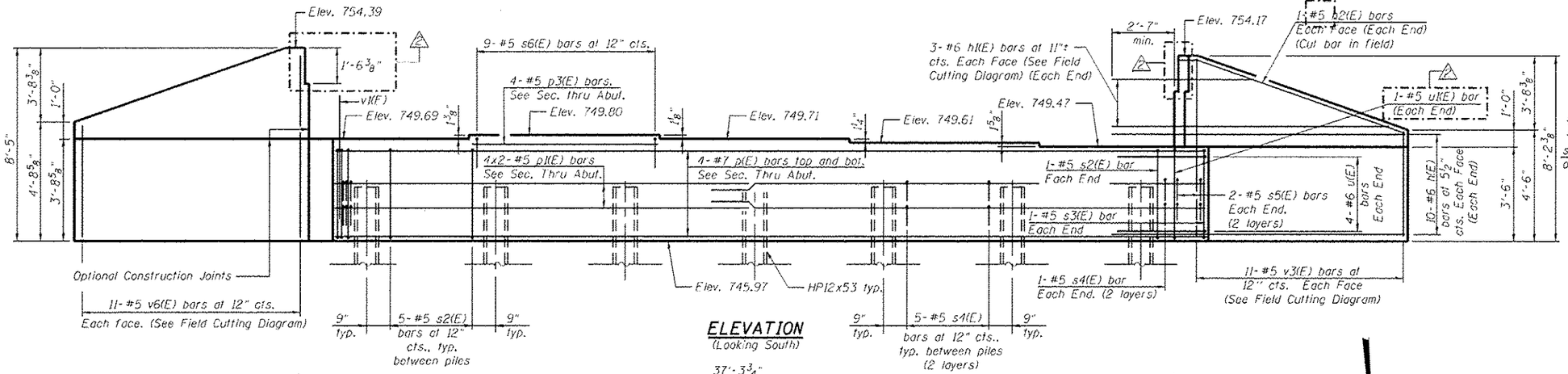
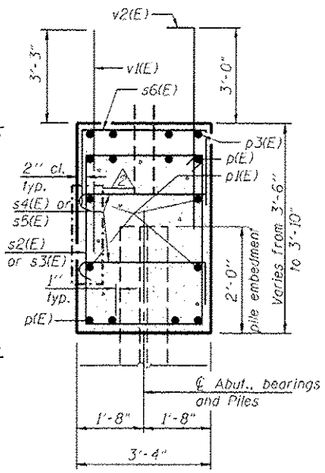
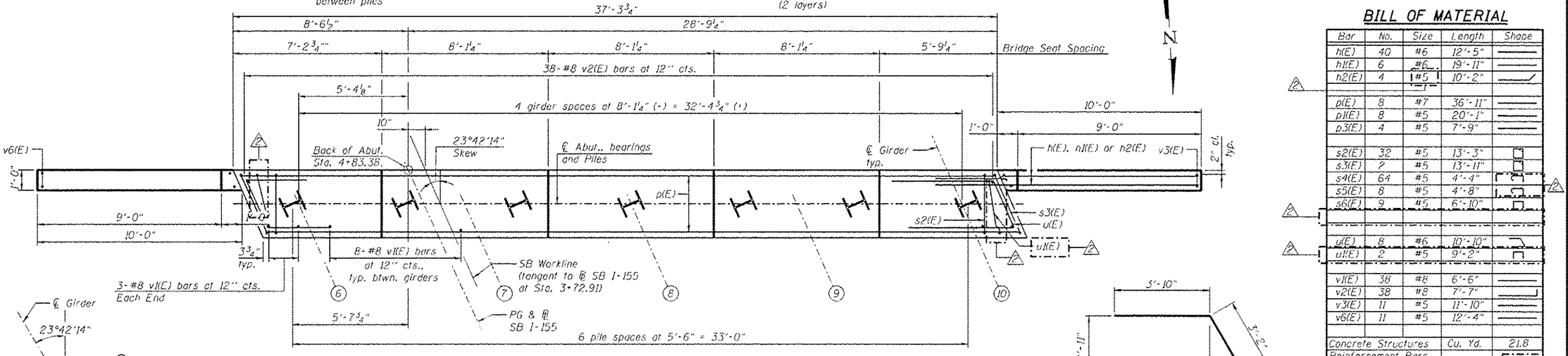


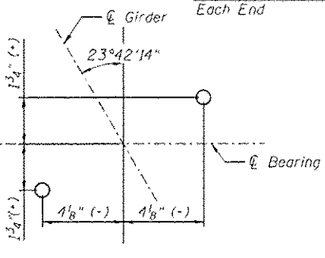
ELEVATION
(Looking South)



SEC. THRU ABUT.

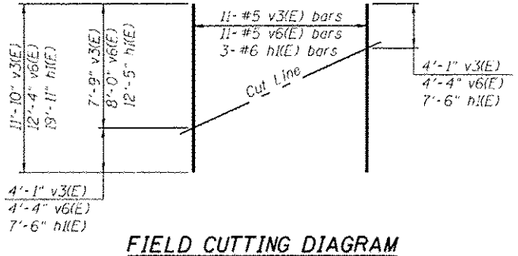


PLAN

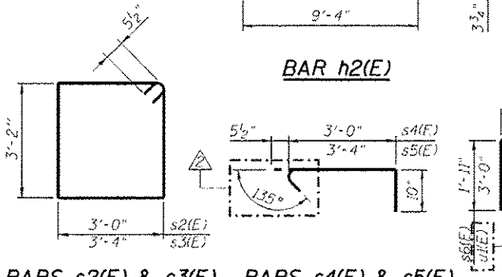


ANCHOR BOLT DETAIL

MIN. BAR LAP
#5 bars = 3'-3"



FIELD CUTTING DIAGRAM
Order v3(E), v6(E) and h1(E) full length. Cut as shown and use remainder of bars in opposite face.

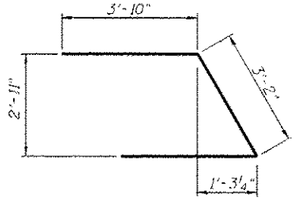


BAR h2(E)

BARS s2(E) & s3(E)

BARS s4(E) & s5(E)

BARS s6(E) & u1(E)



BAR u(E)

BAR v2(E)

PILE DATA
Type: HP12x53
Nominal Required Bearing: 331 kips
Factored Resistance Available: 182 kips
Est. Length: 76 ft.
No. Production Piles: 6
No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	12'-5"	
h1(E)	6	#6	19'-11"	
h2(E)	4	#5	10'-2"	
p(E)	8	#7	36'-11"	
p1(E)	8	#5	20'-1"	
p3(E)	4	#5	7'-9"	
s2(E)	32	#5	13'-3"	
s3(E)	2	#5	13'-11"	
s4(E)	64	#5	4'-4"	
s5(E)	8	#5	4'-8"	
s6(E)	9	#5	6'-10"	
u(E)	8	#6	10'-10"	
u1(E)	2	#5	9'-2"	
v1(E)	38	#8	6'-6"	
v2(E)	38	#8	7'-7"	
v3(E)	11	#5	11'-10"	
v6(E)	11	#5	12'-4"	
Concrete Structures		Cu. Yd.	21.8	
Reinforcement Bars, Epoxy Coated		Pound	4,500	
Furnishing Steel Piles HP12X53		Foot	456	
Driving Piles		Foot	456	
Test Pile Steel HP12x53		Each	1	

Bars indicated thus 4x2- #5 etc. indicates 4 lines of bars with 2 lengths per line.

NOTES:

1. For details of piles, see sheet SA30.
2. Pour steps monolithically with cap.
3. Flare u1(E) bars between the s2(E) bar and the s3(E) bar.
4. h1(E) or h2(E) bars shall not be embedded in the approach slab.
5. Adjust bar spacing to avoid anchor bolt locations.

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Job No. 10056

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		CHECKED - SLD	REVISED -
	PLOT SCALE =	DRAWN - PRT	REVISED -
	PLOT DATE = 10/22/2012	CHECKED - SLD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SB SOUTH ABUTMENT DETAILS
STRUCTURE NO. 090-0165 / 0166
SHEET NO. SA27 OF SA47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-E(4R,14HB-4,14,14HYB)BR1	TAZEWELL	2433	1891
		CONTRACT NO. 68620		
		ILLINOIS FED. AID PROJECT		

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