

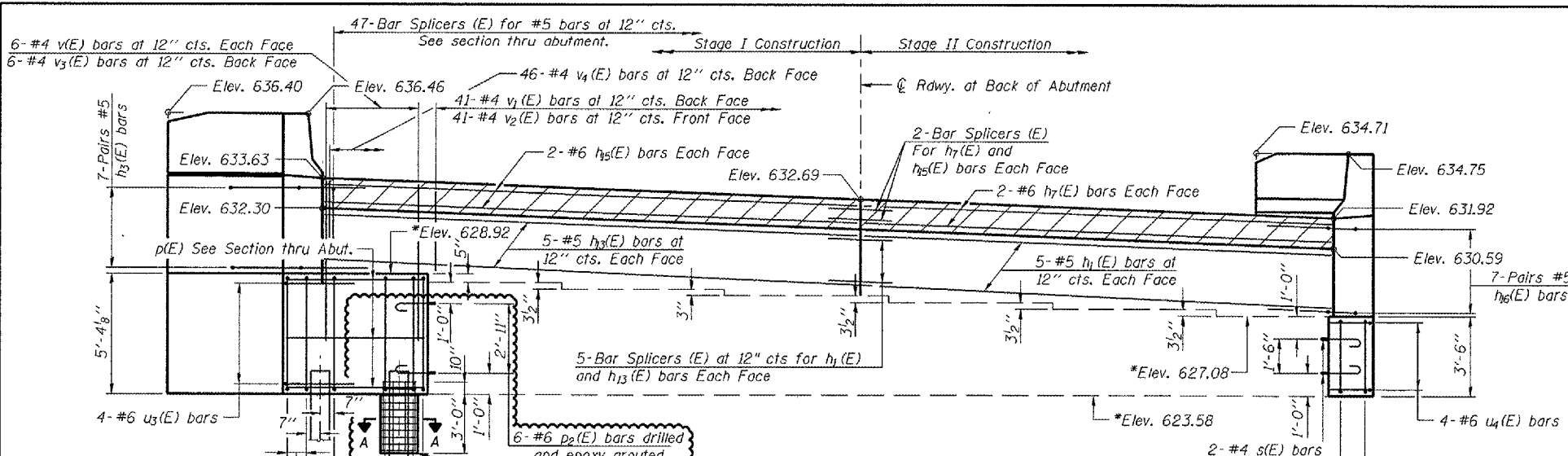
* Elevations given are from existing plans, and have been adjusted by deducting 0.69'. The comparison data is based on a survey of the existing bearing seals, and is subject to normal construction tolerance variations.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	10	#5	19'-10"	
$h_3(E)$	14	#5	7'-3"	
$h_4(E)$	28	#4	11'-3"	
$h_5(E)$	20	#4	11'-3"	
$h_7(E)$	4	#6	19'-10"	
$h_{13}(E)$	10	#5	24'-3"	
$h_{15}(E)$	4	#6	24'-3"	
$h_{16}(E)$	14	#5	7'-2"	
$n(E)$	10	#6	12'-1"	
$n_1(E)$	6	#6	5'-10"	
$n_2(E)$	10	#6	15'-9"	
$n_3(E)$	6	#6	8'-0"	
$p(E)$	8	#7	6'-2"	
$p_2(E)$	13	#6	2'-10"	
$p_3(E)$	3	#7	11'-6"	
$p_4(E)$	6	#7	14'-6"	
$p_6(E)$	3	#7	8'-0"	
$s(E)$	2	#4	15'-1"	
$s_2(E)$	23	#4	9'-5"	
$s_3(E)$	8	#4	18'-9"	
$u_3(E)$	4	#6	9'-1"	
$u_4(E)$	4	#6	6'-10"	
$v(E)$	12	#4	6'-0"	
$v_1(E)$	41	#4	3'-7"	
$v_2(E)$	41	#4	3'-2"	
$v_3(E)$	6	#4	3'-5"	
$v_4(E)$	46	#4	3'-1"	
$v_5(E)$	24	#6	7'-2"	
$v_6(E)$	6	#6	7'-2"	
$v_7(E)$	20	#6	7'-6"	
Structure Excavation		Cu. Yd.	91	
Concrete Structures		Cu. Yd.	31.0	
Reinforcement Bars		Pound	3540	
Epoxy Coated				
Furnishing Steel Piles		Lin. Ft.	110	
HP10x42				
Driving Piles		Lin. Ft.	110	
Test Piles Steel		Each	1	
HP10x42				
Concrete Encasement		Cu. Yd.	1.1	

Reinforcement Bars designated (E) shall be Epoxy Coated.
 For details of Bar Splicers, see sheet 40 of 44.
 Bars epoxy grouted shall have an embedment sufficient to obtain 1.25 x the yield strength of the reinforcing bar.
 Drill holes for epoxy grouted bars to miss existing reinforcement.
 Corporate License Number JB4-001-084

EASTBOUND-WEST ABUTMENT
F.A.I. 72 OVER UNION PACIFIC RAILROAD
SECTION (84-9-4)A,HBK,BY,BY-1
SANGAMON COUNTY
STATION 608+51.98
STR NO. 084-0074 EB - 084-0075 WB



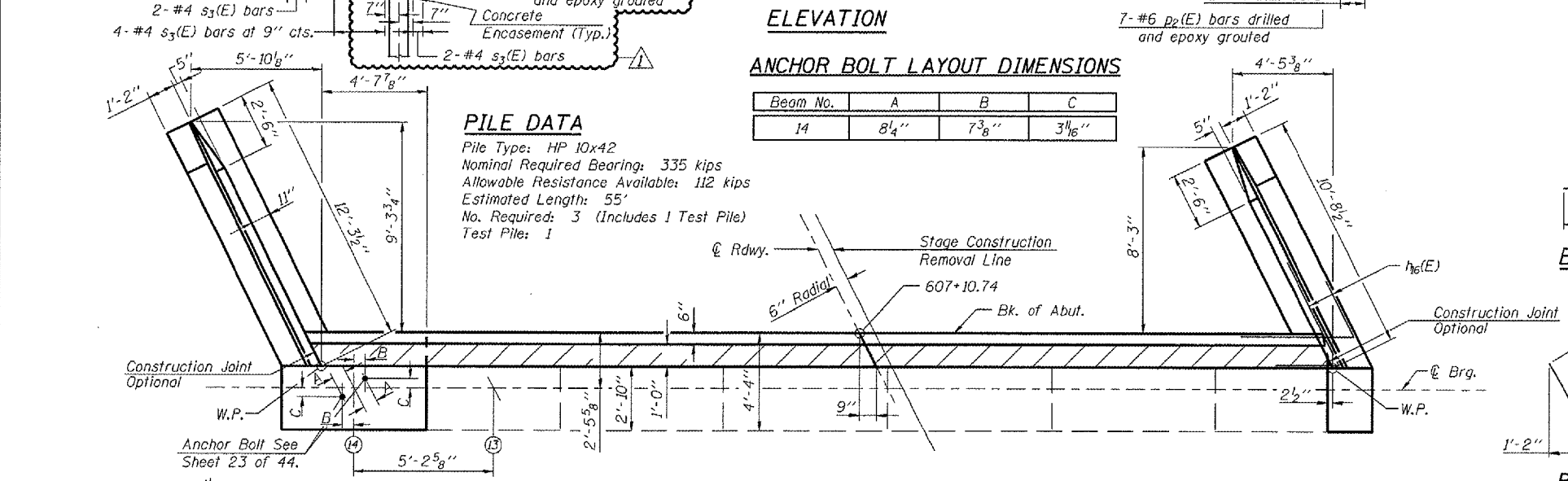
ELEVATION

ANCHOR BOLT LAYOUT DIMENSIONS

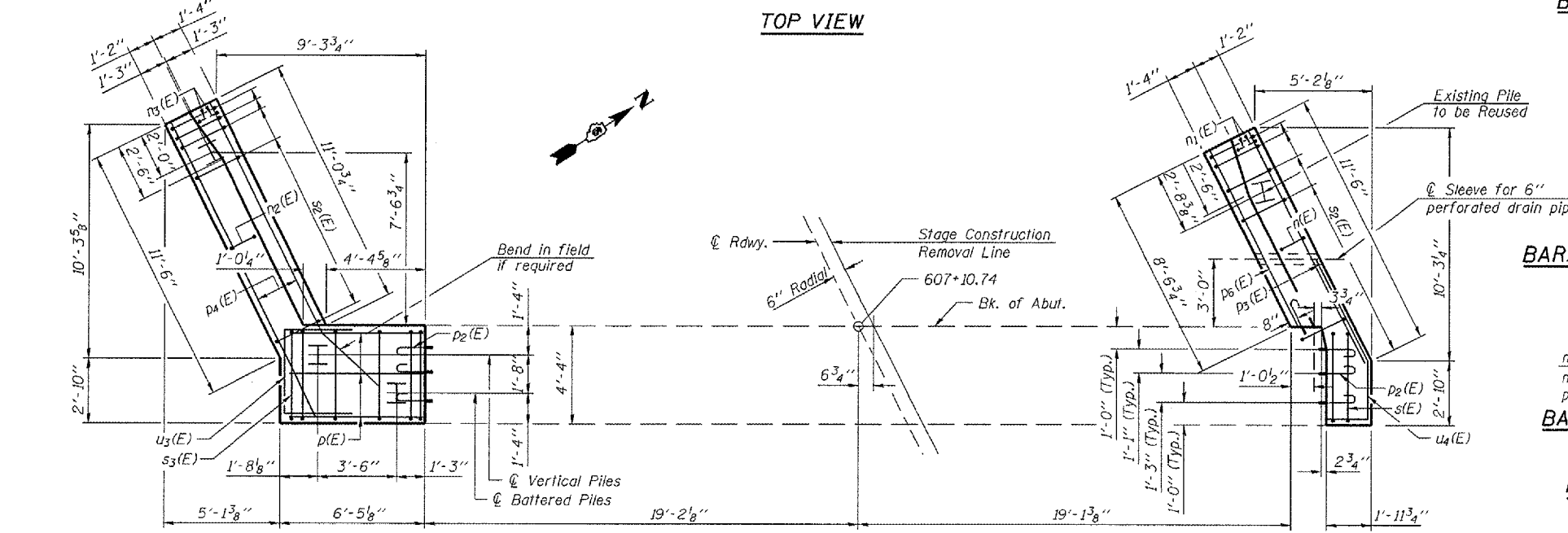
Beam No.	A	B	C
14	8 1/4"	7 3/8"	3 1/8"

PILE DATA

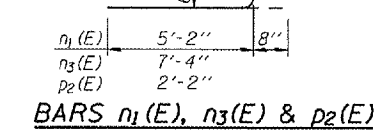
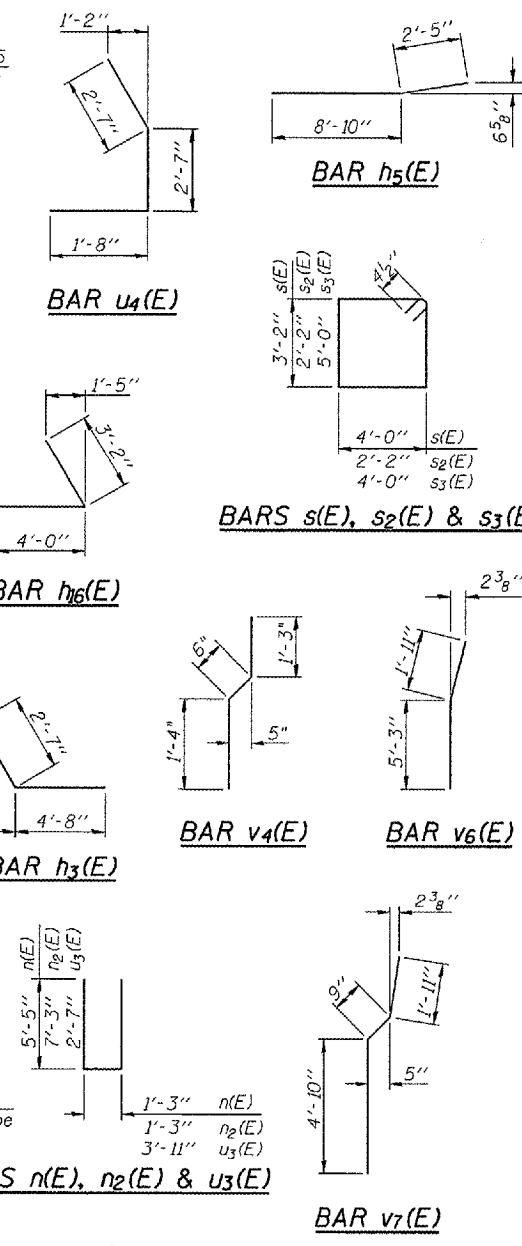
Pile Type: HP 10x42
 Nominal Required Bearing: 335 kips
 Allowable Resistance Available: 112 kips
 Estimated Length: 55'
 No. Required: 3 (Includes 1 Test Pile)
 Test Pile: 1



TOP VIEW



PLAN-PILE CAP



MIN. BAR LAPS

- #4 Bar - 1'-8"
- #5 Bar - 2'-2"
- #6 Bar - 2'-7"
- #7 Bar - 3'-5"

MM 06/27/03
 DAP 07/17/03
 JMM 10/27/03