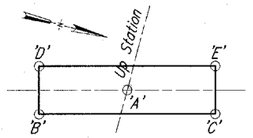
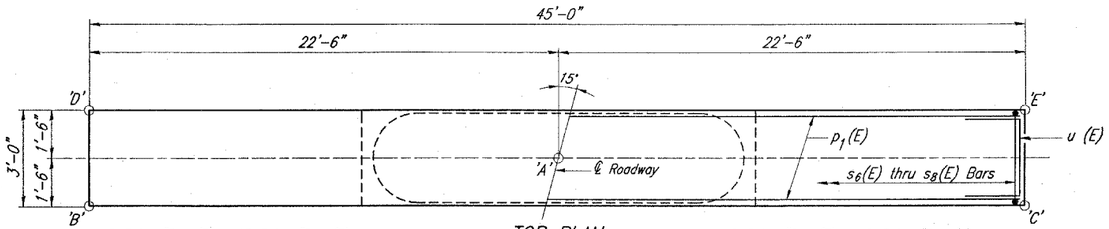
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 389	93-00049-00-BR	PEORIA	99	30
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT	BRS-0389(104)	
CONTRACT NO. 89323				

Sheet 7 of 8

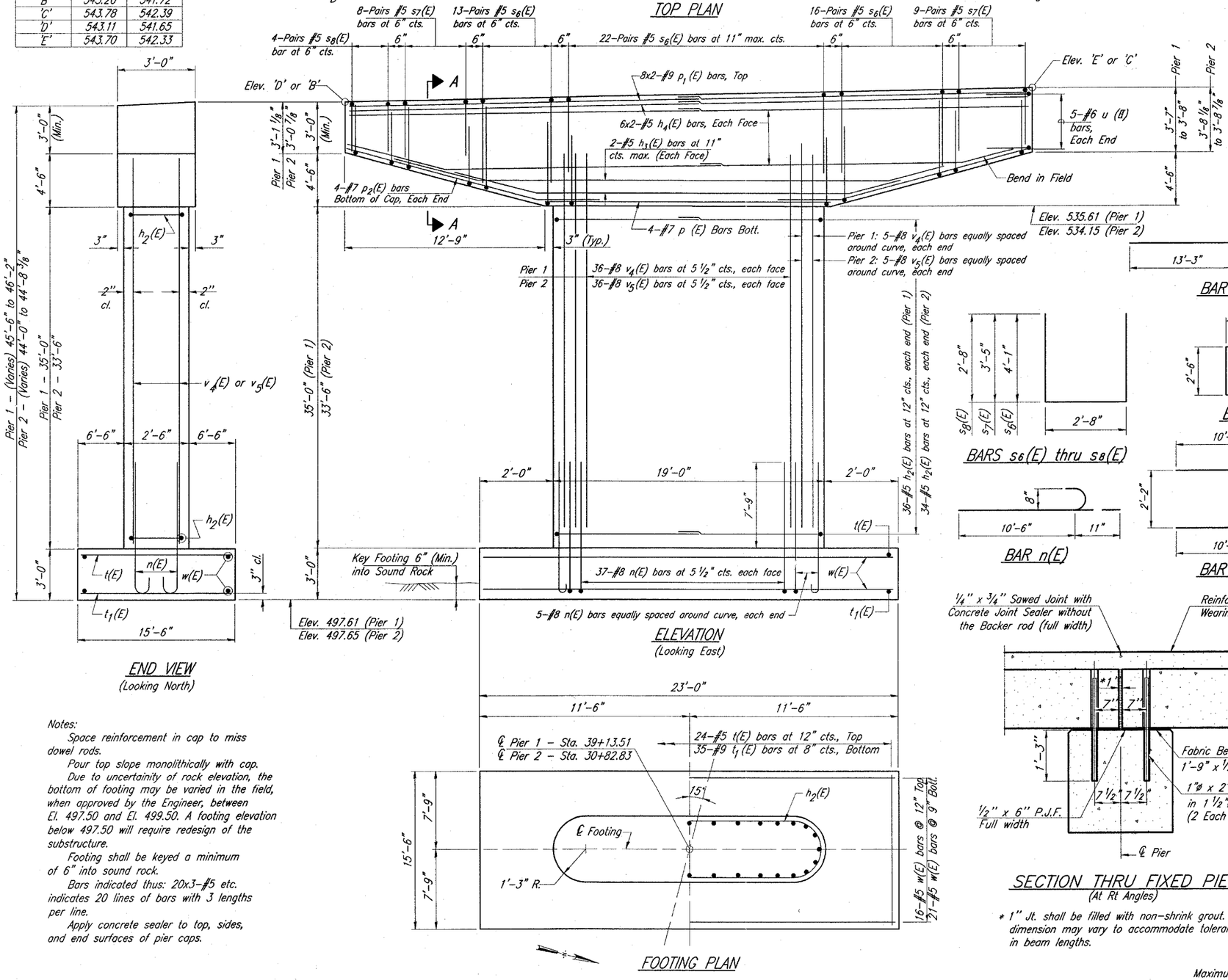


BEARING SEAT ELEVATIONS

Point	Pier 1	Pier 2
'A'	543.44	542.02
'B'	543.20	541.72
'C'	543.78	542.39
'D'	543.11	541.65
'E'	543.70	542.33



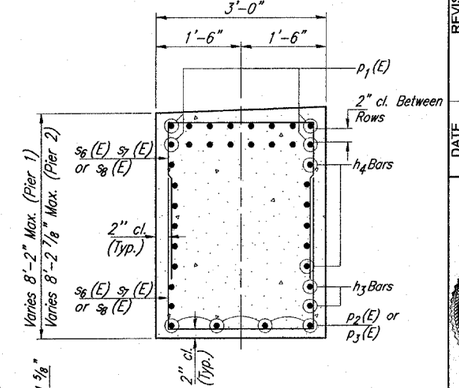
TOP PLAN



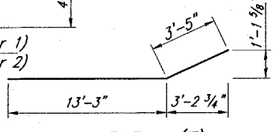
END VIEW
(Looking North)

ELEVATION
(Looking East)

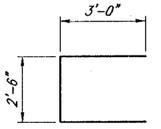
FOOTING PLAN



SECTION A-A



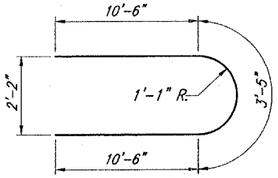
BAR p_3(E)



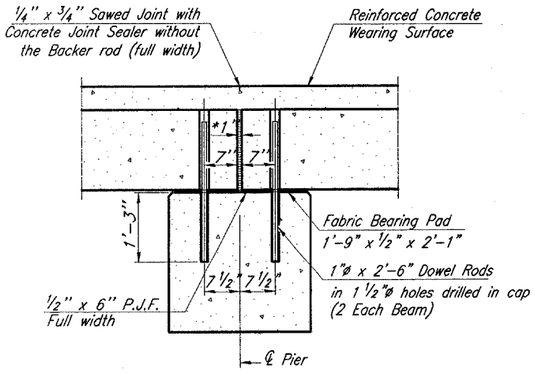
BAR u_1(E)

BARS s_6(E) thru s_8(E)

BAR n(E)



BAR h_2(E)



SECTION THRU FIXED PIER
(At Rt Angles)

* 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

BILL OF MATERIAL - 2 PIERS

Bar	No.	Size	Length	Shape
h_2(E)	144	#5	24'-5"	
h_3(E)	12	#5	28'-8"	
h_4(E)	48	#5	23'-7"	
n(E)	168	#8	11'-5"	
p_1(E)	64	#9	25'-8"	
p_2(E)	8	#7	19'-5"	
p_3(E)	8	#7	16'-8"	
s_6(E)	204	#5	12'-6"	
s_7(E)	68	#5	9'-6"	
s_8(E)	16	#5	8'-0"	
t(E)	48	#5	15'-0"	
t_1(E)	70	#9	15'-0"	
u_1(E)	20	#6	8'-6"	
v_4(E)	84	#8	39'-0"	
v_5(E)	84	#8	37'-6"	
w(E)	74	#5	22'-6"	

Structure Excavation	Cu. Yd.	314
Rock Excavation For Structures	Cu. Yd.	26.4
Concrete Structures	Cu. Yd.	263.7
Reinforcement Bars, Epoxy Coated	Pound	43440
Concrete Sealer	Sq. Ft.	1494

Beam Setting Notes :
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
All horizontal dimensions are at right angles to beam ends.

MIN. BAR LAPS
#5 Bars = 1'-8"
#6 Bars = 2'-0"
#7 Bars = 2'-9"
#8 Bars = 3'-8"
#9 Bars = 4'-7"

Notes:
Space reinforcement in cap to miss dowel rods.
Pour top slope monolithically with cap.
Due to uncertainity of rock elevation, the bottom of footing may be varied in the field, when approved by the Engineer, between El. 497.50 and El. 499.50. A footing elevation below 497.50 will require redesign of the substructure.
Footing shall be keyed a minimum of 6" into sound rock.
Bars indicated thus: 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
Apply concrete sealer to top, sides, and end surfaces of pier caps.

Maximum Bearing Pressure = 8400 p.s.f

REVISION	DATE

Hanson No. 06P2008
Filename: P-2.DWG
Scale:
Date: 04/06/07

LAYOUT	TWZ	10/17/06
DRAWN	RAH	01/10/07
REVIEWED	JJT	01/16/07

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PIER STRUCTURE
LANCASTER RD. OVER LaMARSH CREEK
STRUCTURE NO. 072-3145
PEORIA COUNTY, ILLINOIS

30
30 of 99 sheets

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