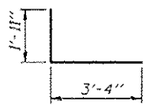
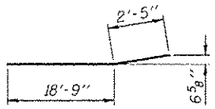
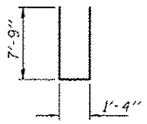


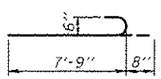
BAR h_2(E)



BAR h_4(E)



BAR n(E)



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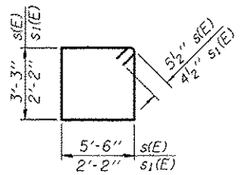
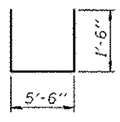


BARS s(E) & s_1(E)



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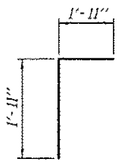
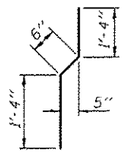


BAR v(E)



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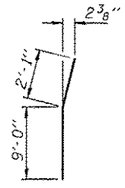

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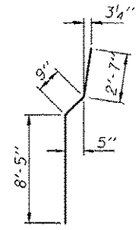

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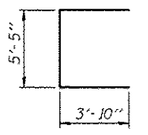
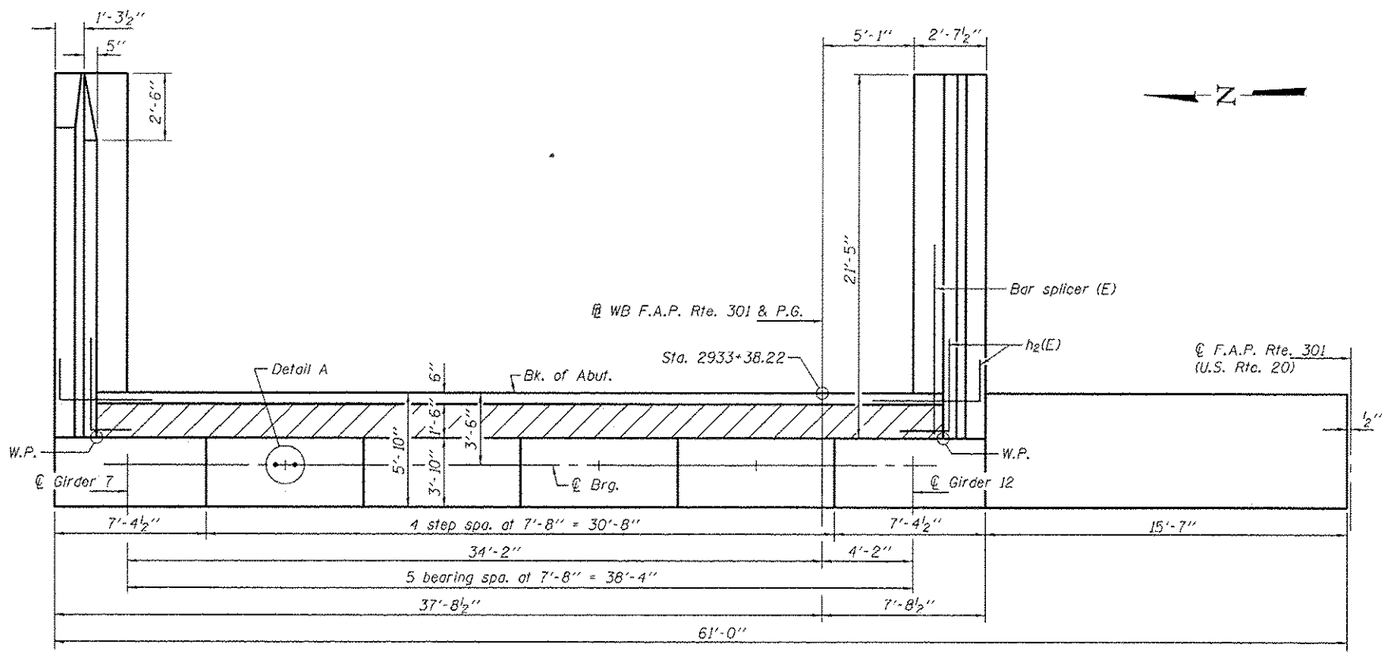


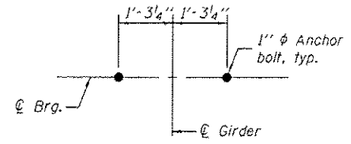
BAR u(E)

PILE DATA

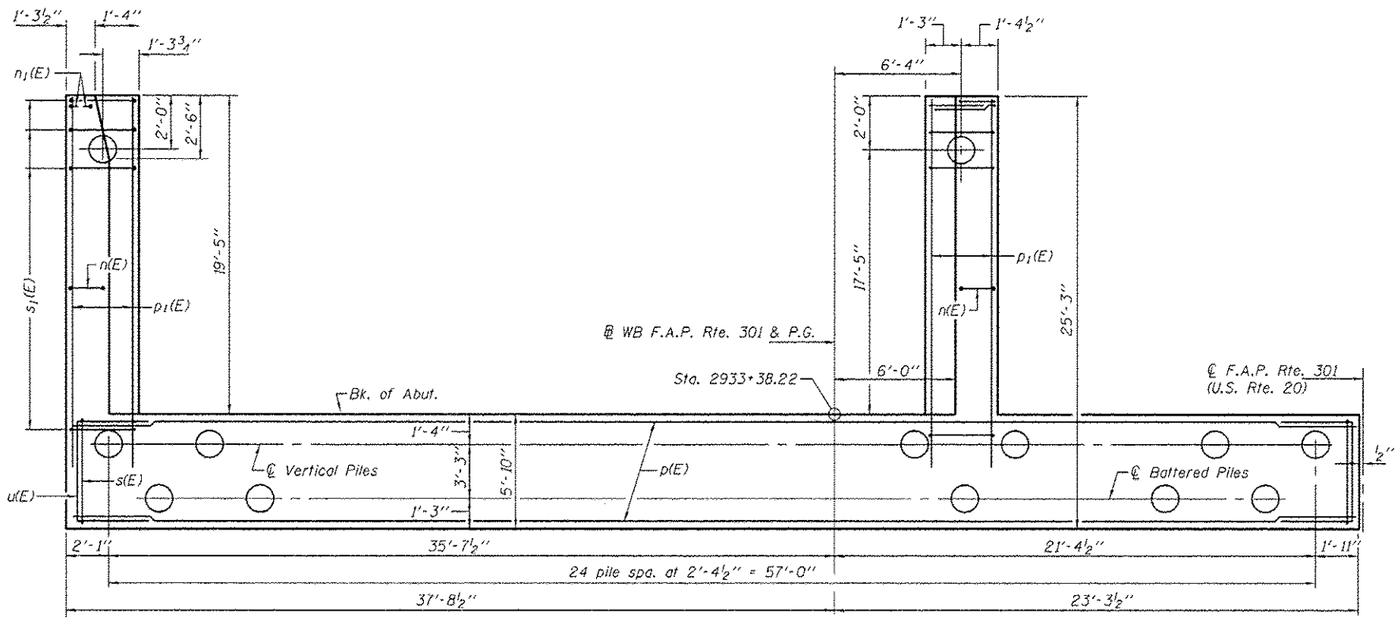
Type: Metal Shells 14"x .312" with Pile Shoes
Nominal Required Bearing: 452 Kips
Factored Resistance Available: 249 Kips
Est. Length: 56'
No. Production Piles: 26
No. Test Piles: 1



TOP VIEW



DETAIL A



PLAN-PILE CAP

EAST ABUTMENT (W.B.) BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	41'-8"	
h_1(E)	5	#6	41'-8"	
h_2(E)	36	#5	5'-3"	
h_3(E)	42	#4	21'-1"	
h_4(E)	14	#4	21'-2"	
h_5(E)	5	#5	22'-8"	
n(E)	41	#6	16'-10"	
n_1(E)	6	#6	8'-5"	
p(E)	28	#7	32'-11"	
p_1(E)	12	#7	23'-2"	
s(E)	78	#5	18'-5"	
s_1(E)	42	#4	9'-5"	
s_2(E)	23	#4	8'-6"	
u(E)	8	#6	13'-1"	
v(E)	43	#5	3'-10"	
v_1(E)	43	#4	3'-2"	
v_2(E)	44	#6	11'-8"	
v_3(E)	3	#6	11'-1"	
v_4(E)	41	#6	11'-9"	
v_5(E)	43	#5	9'-2"	
v_6(E)	43	#5	10'-6"	

Structure Excavation	Cu. Yd.	165
Concrete Structures	Cu. Yd.	108.8
Reinforcement Bars, Epoxy Coated	Pound	10330
Furnishing Metal Shell Piles 14"x .312"	Foot	1456
Driving Piles	Foot	1456
Test Pile, Metal Shells	Each	1
Pile Shoes	Each	27
Concrete Sealer	Sq. Ft.	894
Anchor Bolts, 1"	Each	12

For details of piles, see sheet 45 of 50.
See sheet 40 of 50 for reinforcement in the wingwalls.

DESIGNED - Nick R. Bornett	EXAMINED	DATE - OCTOBER 4, 2013	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - Frank W. Sharpe	PASSED	REVISED	
DRAWN - h.t. duong	ACTING ENGINEER OF BRIDGE DESIGN	REVISED	
CHECKED - NRB/FWS/GRA	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

EAST ABUTMENT (W.B.) – STAGE II CONSTRUCTION
STRUCTURE NO. 101-0197 (E.B.) & 101-0198 (W.B.)
SHEET NO. 38 OF 50 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	3BR & 3BR-1	WINNEBAGO	290	213
		CONTRACT NO. 64D19		
		ILLINOIS FED. AID PROJECT		