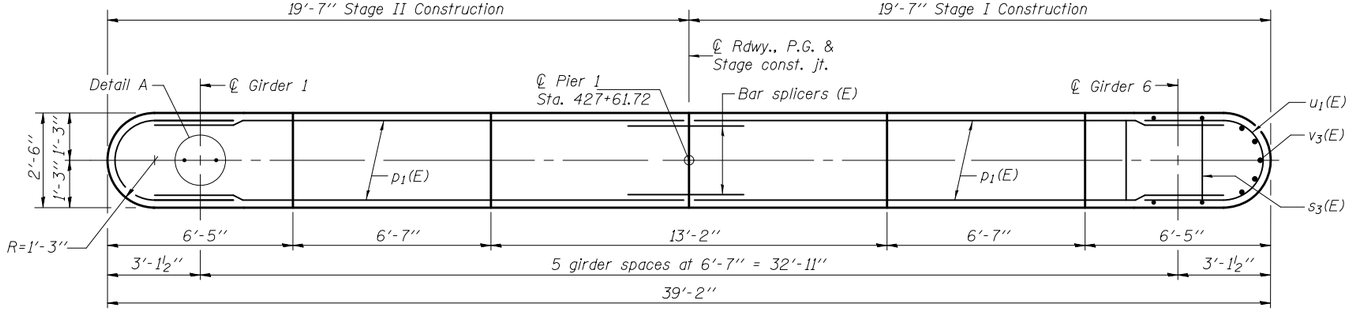
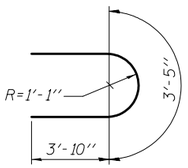
Notes: Pour steps monolithically with cap.
For bar splicer details, see sheet 23 of 30.

PILE DATA

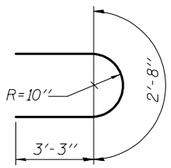
Type: Steel HP14x73
Nominal Required Bearing: 500 Kips
Factored Resistance Available: 246 Kips
Est. Length: 90'
No. Production Piles: 9
No. Test Piles: 1



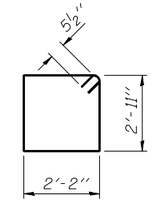
TOP PLAN



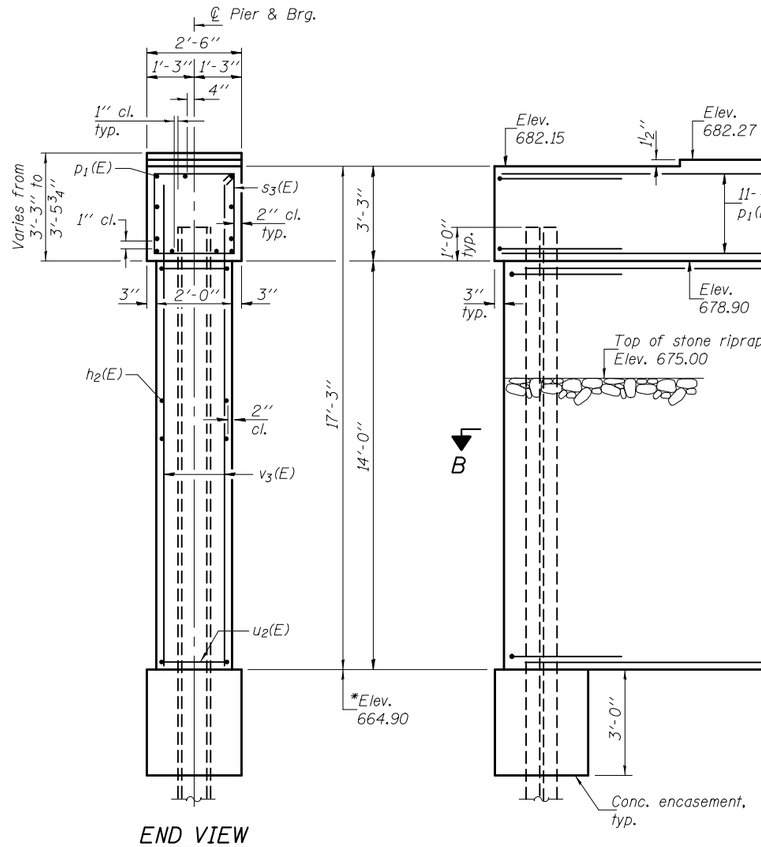
BAR u_1(E)



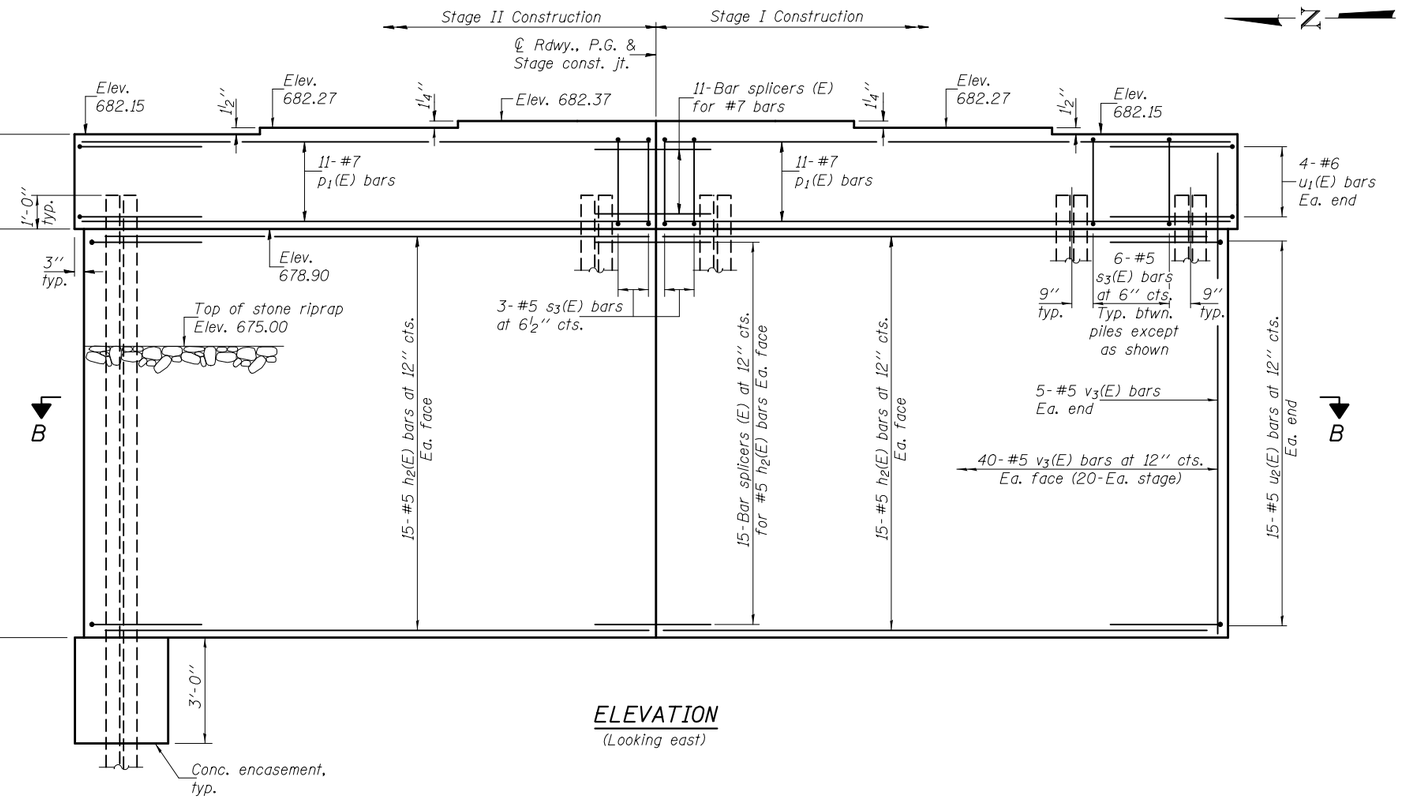
BAR u_2(E)



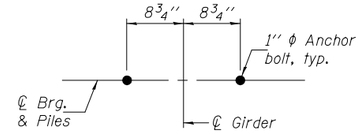
BAR s_3(E)



END VIEW

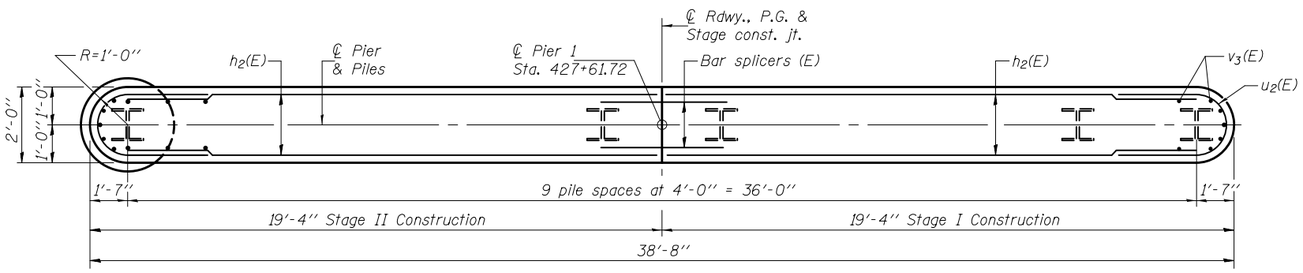


ELEVATION
(Looking east)



DETAIL A

*Forms shall be placed below Elev. 664.90 after excavation for pier walls. Reinforcement and concrete encasement shall be placed underwater into forms. The cost of concrete encasement, reinforcement, form excavation, and furnishing and placing form is included with Concrete Encasement. If a portion of the pier wall is under water, concrete shall be trimied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be trimied to an elevation 1'-0" above the water level at the time of construction.



SECTION B-B

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_2(E)	60	#5	18'-2"	——
p_1(E)	22	#7	18'-2"	——
s_3(E)	54	#5	11'-1"	□
u_1(E)	8	#6	11'-1"	⊃
u_2(E)	30	#5	9'-2"	⊃
v_3(E)	90	#5	15'-9"	——
Concrete Structures		Cu. Yd.	51.9	
Structure Excavation		Cu. Yd.	94	
Reinforcement Bars, Epoxy Coated		Pound	4480	
Furnishing Steel Piles HP14x73		Foot	810	
Driving Piles		Foot	810	
Test Pile Steel HP14x73		Each	1	
Anchor Bolts, 1" ϕ		Each	12	
Concrete Encasement		Cu. Yd.	5.5	
Underwater Structure Excavation Protection Location 1		Each	1	

DESIGNED	-	Michael D. Rolape	
CHECKED	-	Nicholas R. Barnett	
DRAWN	-	h.t. duong	
CHECKED	-	MDR/NRB	

EXAMINED — Thomas J. Domagalski — ENGINEER OF BRIDGE DESIGN
PASSED — L. Carl Tracy — ENGINEER OF BRIDGES AND STRUCTURES
DATE - OCTOBER 5, 2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1
STRUCTURE NO. 057-0244
SHEET NO. 21 OF 30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	121 BR-2	MCLEAN	144	69
		CONTRACT NO. 70552		
	ILLINOIS FED. AID PROJECT			