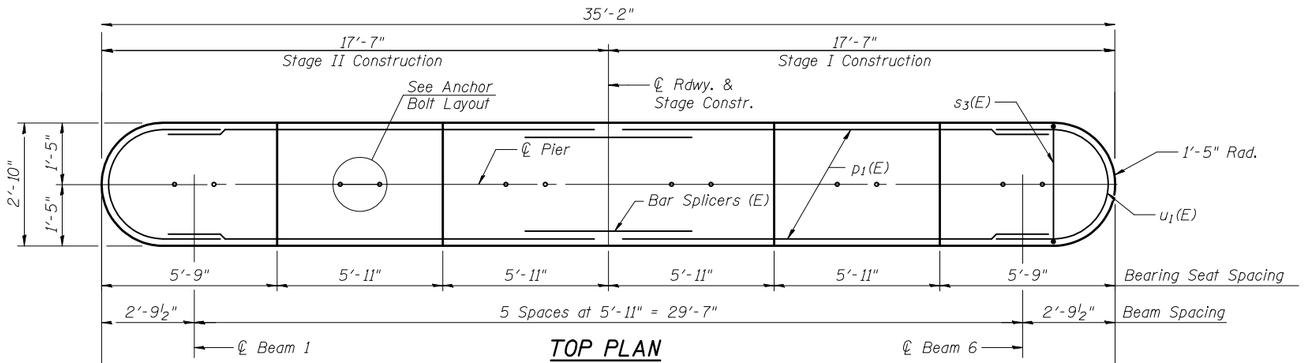
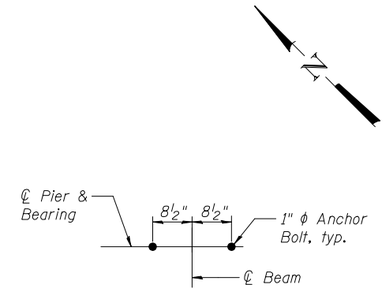
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

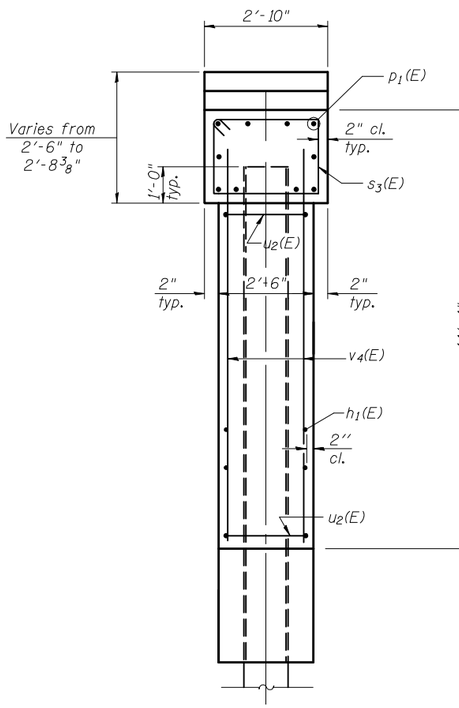
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.



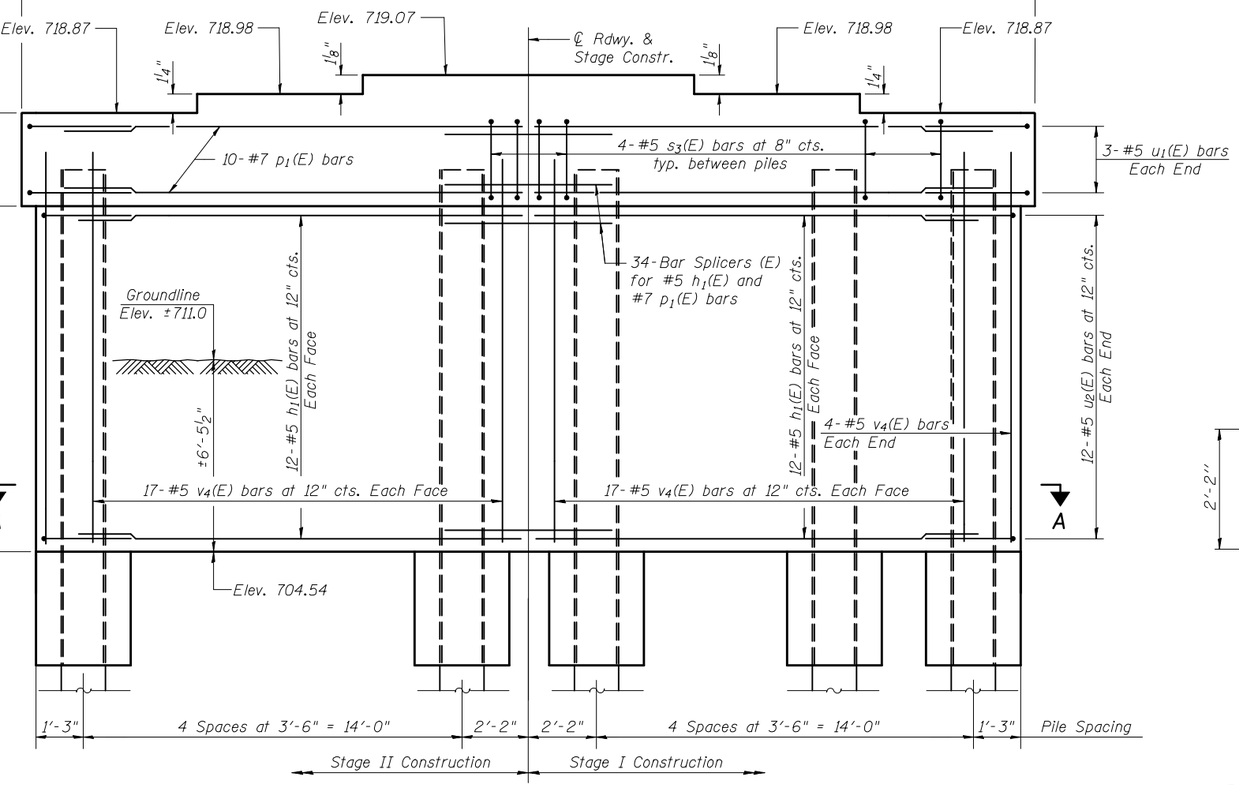
TOP PLAN



ANCHOR BOLT LAYOUT



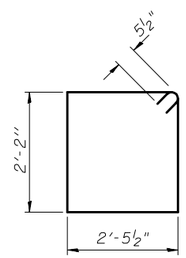
END VIEW



ELEVATION
(Looking Northeast)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_1(E)	48	#5	16'-0"	
p_1(E)	20	#7	16'-2"	
s_3(E)	36	#5	10'-2"	
u_1(E)	6	#5	9'-5"	
u_2(E)	24	#5	8'-5"	
v_4(E)	76	#5	13'-1"	
Structure Excavation			Cu. Yd.	61
Concrete Structures			Cu. Yd.	47.0
Reinforcement Bars, Epoxy Coated			Pound	3.150
Furnishing Metal Shell Piles 14" ϕ x 0.312"			Foot	414
Driving Piles			Foot	414
Test Pile, Metal Shell			Each	1
Underwater Structure Excavation Protection Location 1			Each	1
Concrete Encasement			Cu. Yd.	5.5

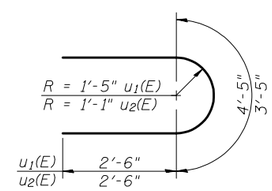


BAR s_3(E)

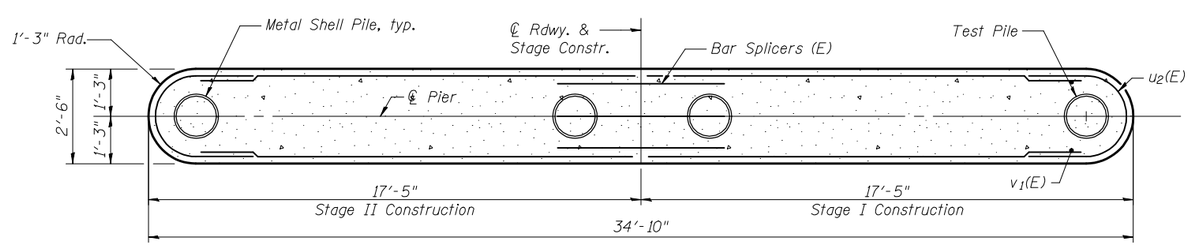
For details of Bar Splicers, see sheet 20 of 22.
For details of piles and Concrete Encasement, see sheet 19 of 22.

PILE DATA

Type: Metal Shell 14" ϕ x 0.312"
Nominal Required Bearing: 516 kips
Factored Resistance Available: 258 kips
Est. Length: 46 feet
No. Production Piles: 9
No. Test Piles: 1



BAR u_1(E) & u_2(E)



SECTION A-A

PIER DETAILS
STRUCTURE NO. 020-0064

SHEET NO. 18	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	71	(121BR)BR	DEWITT	75	47
22 SHEETS			CONTRACT NO. 70429		
	FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

DESIGNED	SMM
CHECKED	KMS
DRAWN	SMM
CHECKED	MTH

CLARK DIETZ, INC.

D-95-070-04, P-95-035-04