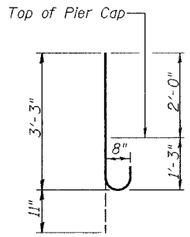
Notes: Pour steps monolithically with cap.
Space reinforcement in cap to miss Anchor Bolts.
For Anchor Bolt installation details see sheet 13 of 21.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

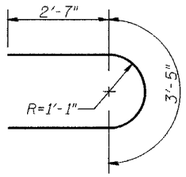
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 836	(119BR) BR	CHAMPAIGN		28
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 17
21 SHEETS

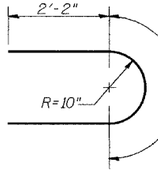
Contract # 70355



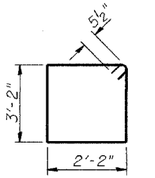
BAR $v_4(E)$



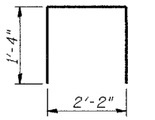
BAR $u_1(E)$



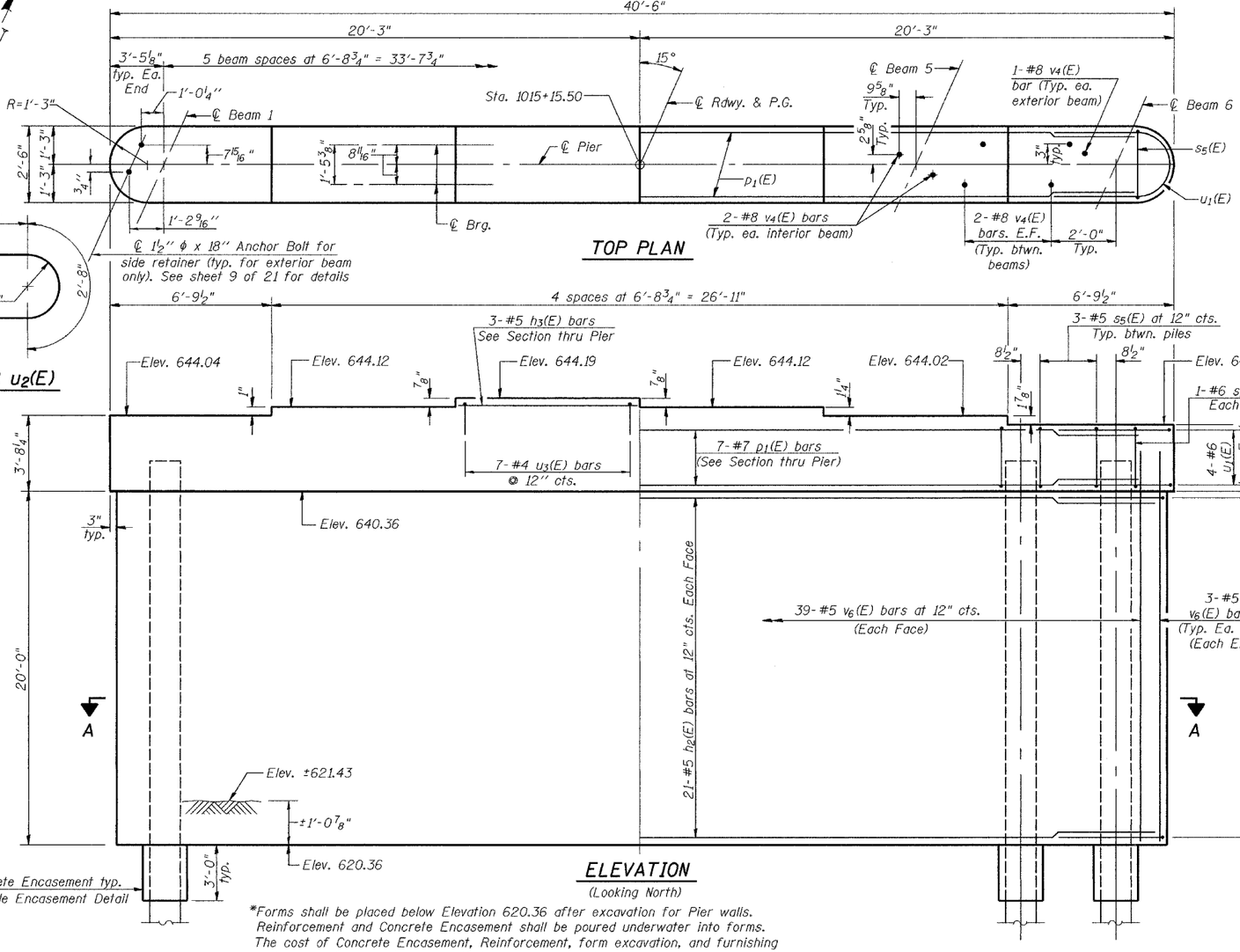
BAR $u_2(E)$



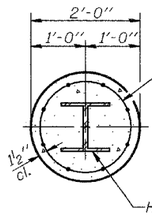
BAR $s_5(E)$



BAR $u_3(E)$

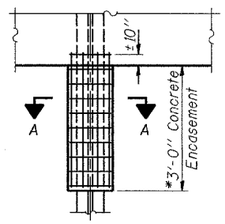


TOP PLAN



Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Furnishing Piles. Forms for Encasement may be omitted when soil conditions permit.

SECTION A-A



PILE ENCASEMENT DETAIL

SECTION THRU PIER

ELEVATION
(Looking North)

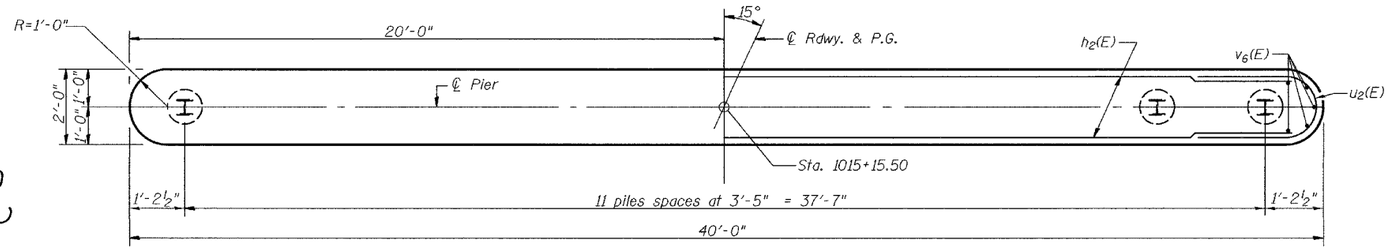
*Forms shall be placed below Elevation 620.36 after excavation for Pier walls. Reinforcement and Concrete Encasement shall be poured underwater into forms. The cost of Concrete Encasement, Reinforcement, form excavation, and furnishing and placing forms is included with furnishing piles. If a portion 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.

PILE DATA

Type: HP 12 x 63
Design Capacity: 66 Tons Driven to 99 Tons Brg.
Est. Length: 81'
No. Required: 11+1 Test Pile

DESIGNED	Philip E. Coppernoll
CHECKED	Ray Ahanchi
DRAWN	R. Sommer
CHECKED	P.E.C./G.R.A.

December 1 2004
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



SECTION A-A

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_2(E)$	42	#5	38'-0"	
$h_3(E)$	3	#5	6'-5"	
$p_1(E)$	7	#7	38'-0"	
$s_5(E)$	35	#5	11'-7"	
$u_1(E)$	8	#6	8'-7"	
$u_2(E)$	42	#5	7'-0"	
$u_3(E)$	7	#4	4'-10"	
$v_4(E)$	30	#8	4'-2"	
$v_6(E)$	84	#5	22'-0"	
Concrete Structures		Cu. Yd.	72.1	
Reinforcement Bars Epoxy Coated		Pound	5340	
Structure Excavation		Cu. Yd.	10	
Furnishing Steel Piles HP 12 x 63		Foot	891	
Driving Steel Piles		Foot	891	
Test Pile HP 12 x 63		Each	1	
Underwater Structure Excavation Protection Location 2		Each	1	

Reinforcement bars designated (E) shall be epoxy coated.

PIER 2
F.A.P. RT. 836-SECTION (119BR)BR
CHAMPAIGN COUNTY
STATION 1015+21.00
STRUCTURE NO. 010-0280

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