Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 27 of 32.

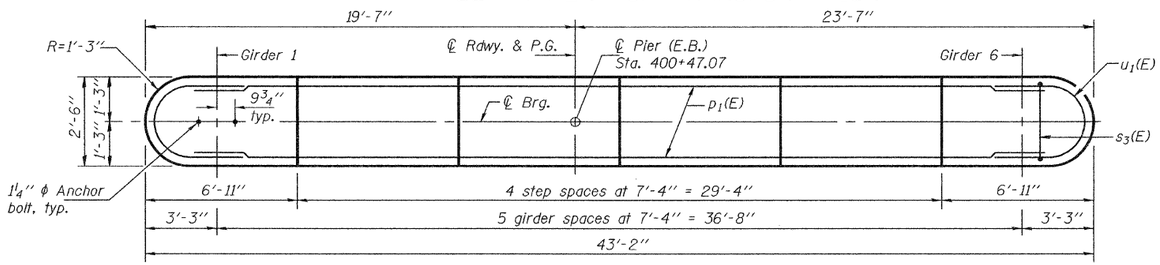
* Forms shall be placed below Elev. 575.49 after excavation for pier wall. Reinforcement shall be placed and concrete encasement shall be poured underwater into forms. If a portion of the pier wall is underwater, concrete shall be tremied underwater into forms according to Art. 503.08 of the Std. Spec's. Concrete shall be tremied to an elevation 1'-0" above the water level at the time of construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

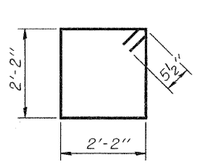
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14BR & 14BR-1	BUREAU	219	96
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 24
32 SHEETS

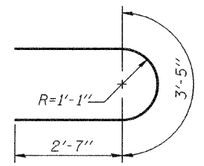
Contract No. 66731



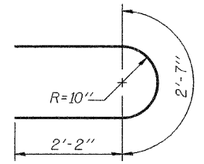
TOP PLAN



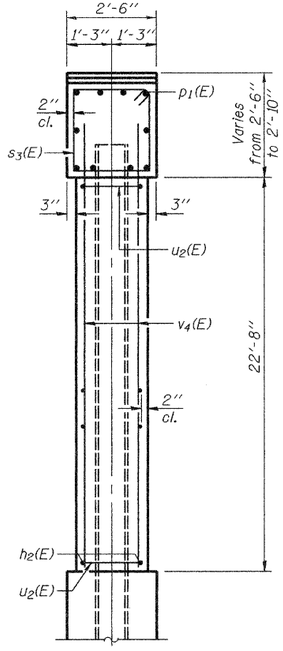
BAR $s_3(E)$



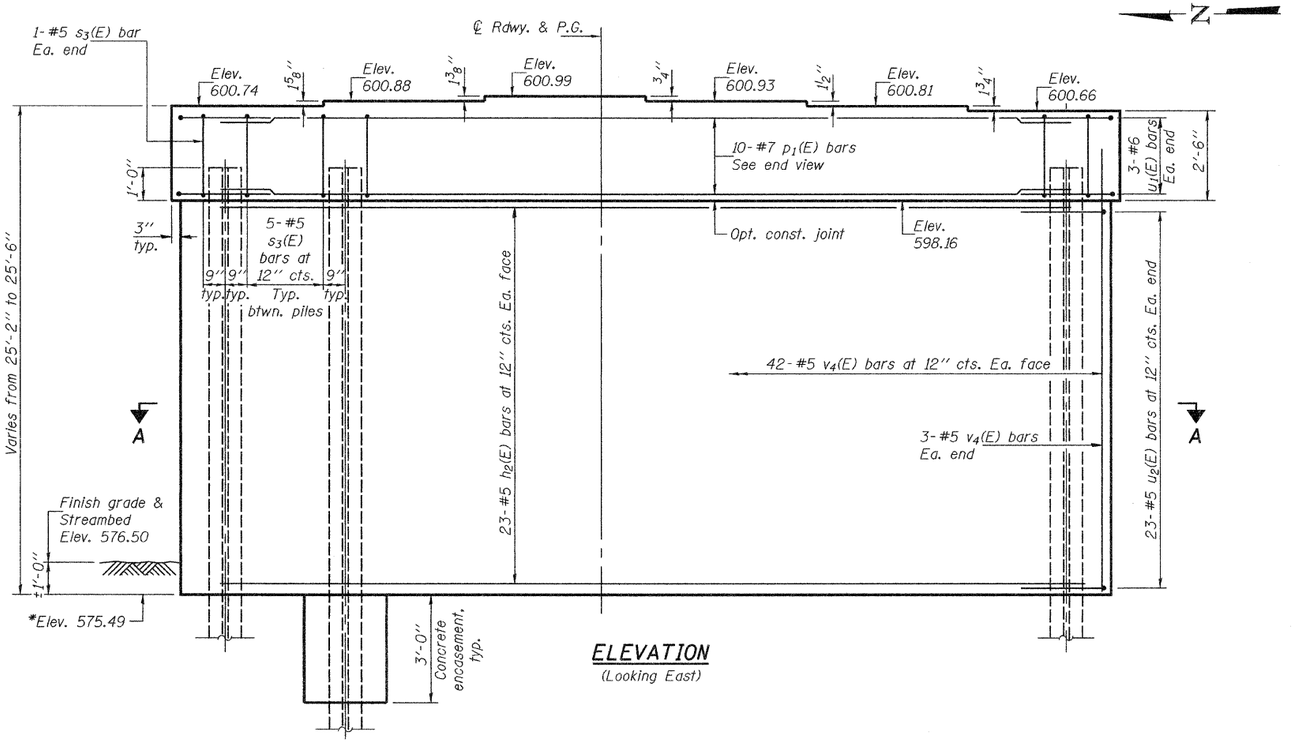
BAR $u_1(E)$



BAR $u_2(E)$



END VIEW



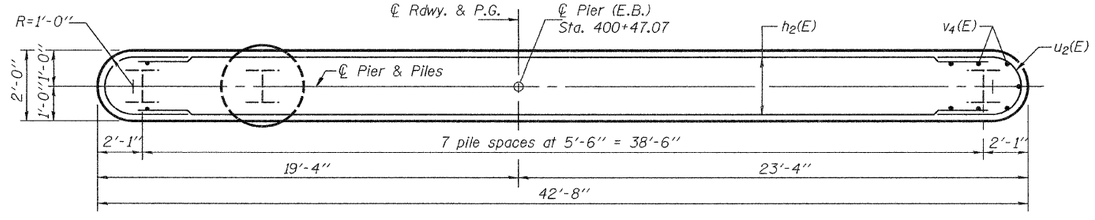
ELEVATION
(Looking East)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_2(E)$	46	#5	40'-8"	——
$p_1(E)$	10	#7	40'-8"	——
$s_3(E)$	37	#5	9'-7"	□
$u_1(E)$	6	#6	8'-7"	⊃
$u_2(E)$	46	#5	6'-11"	⊃
$v_4(E)$	90	#5	23'-9"	——
Structure Excavation			Cu. Yd.	11
Concrete Structures			Cu. Yd.	81.5
Reinforcement Bars, Epoxy Coated			Pound	5790
Furnishing Steel Piles, HP14x102			Foot	512
Driving Piles			Foot	512
Concrete Encasement			Cu. Yd.	4.4
Underwater Structure Excavation Protection, Location 1			Each	1
Anchor Bolts, $1\frac{1}{4}$" ϕ			Each	12

PILE DATA

Type: Steel HP14x102
Nominal Required Bearing: 718 Kips
Factored Resistance Available: 325 Kips
Est. Length: 64'
No. Production Piles: 8
No. Test Piles: 0



SECTION A-A

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER (E.B.)
F.A.I. RTE. 80 - SEC. 14BR & 14BR-1
BUREAU COUNTY
STATION 400+22.07
STRUCTURE NO. 006-0165 (E.B.)
STRUCTURE NO. 006-0166 (W.B.)

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