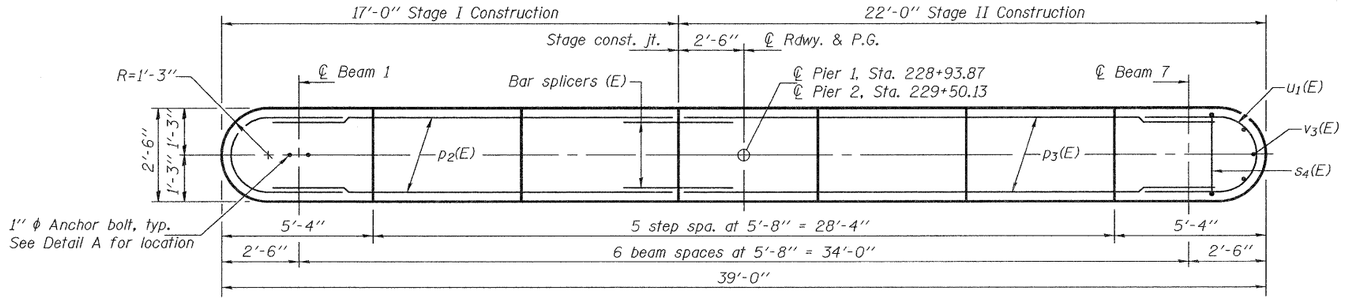
PILE DATA-PIER 1

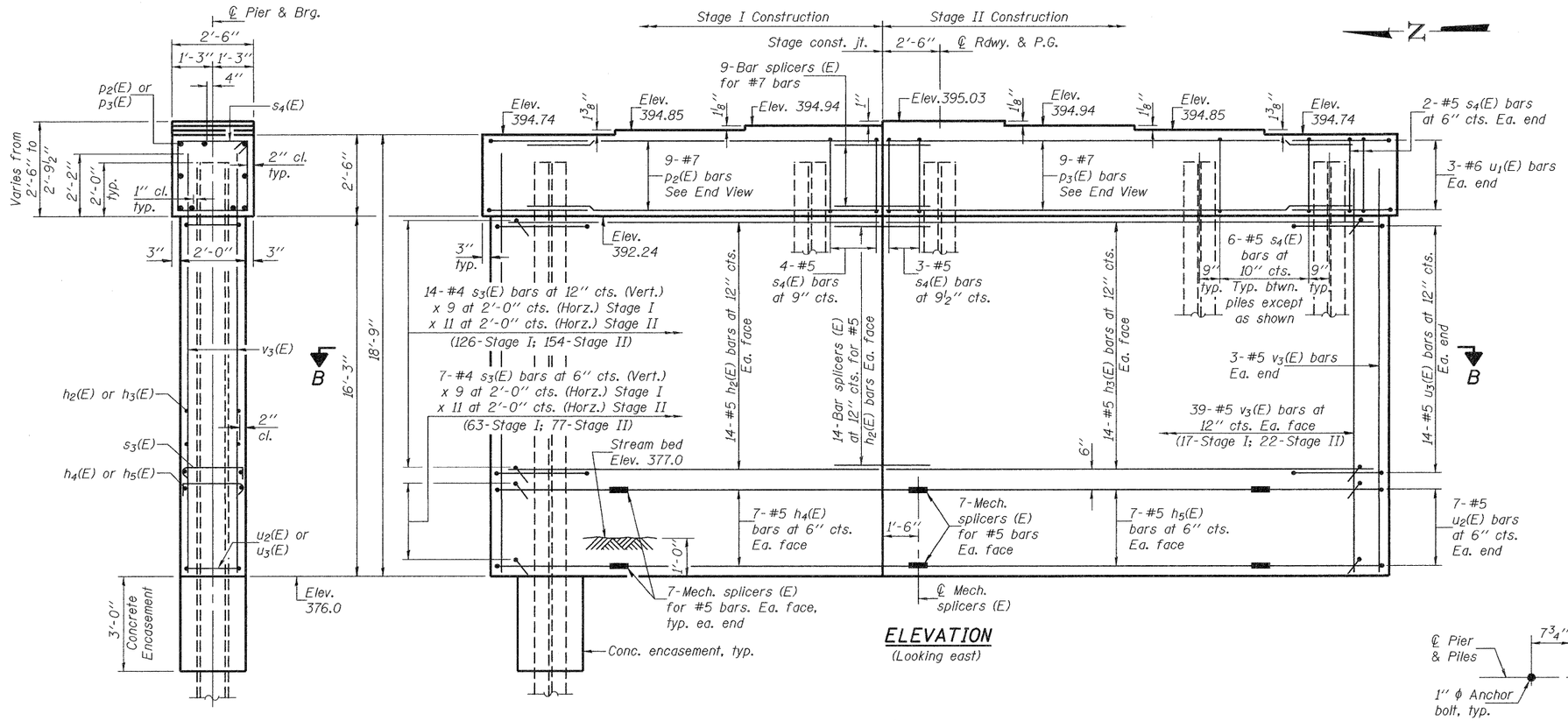
Type: Steel HP12x53
Nominal Required Bearing: 391 Kips
Factored Resistance Available: 192 Kips
Est. Length: 71'
No. Production Piles: 6
No. Test Piles: 1

PILE DATA-PIER 2

Type: Steel HP12x53
Nominal Required Bearing: 350 Kips
Factored Resistance Available: 192 Kips
Est. Length: 62'
No. Production Piles: 6
No. Test Piles: 1



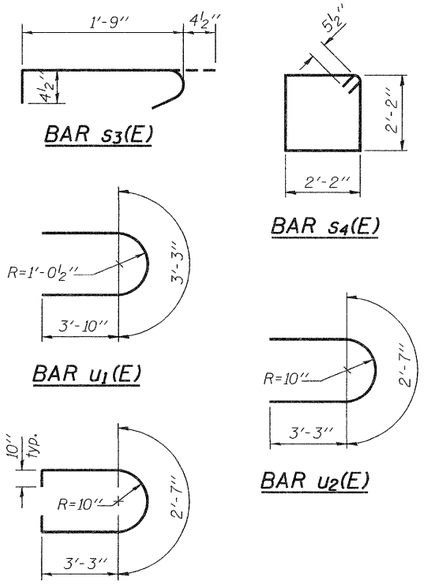
TOP PLAN



END VIEW

ELEVATION
(Looking east)

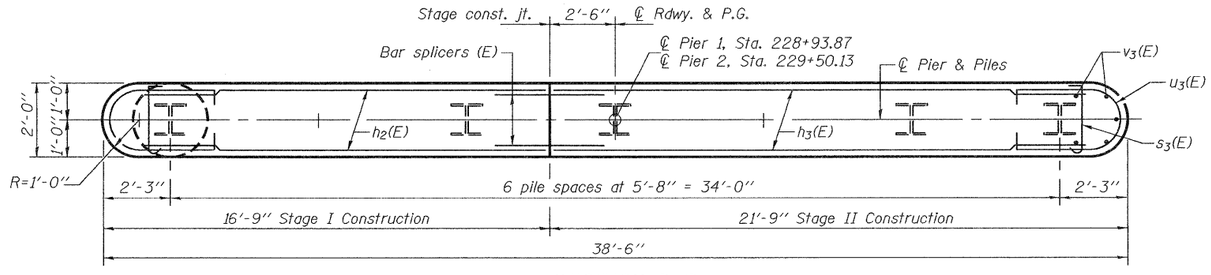
DETAIL A



PIERS 1 & 2
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_2(E)$	56	#5	15'-7"	——
$h_3(E)$	56	#5	20'-7"	——
$h_4(E)$	28	#5	14'-0"	——
$h_5(E)$	28	#5	16'-0"	——
$p_2(E)$	18	#7	15'-7"	——
$p_3(E)$	18	#7	20'-7"	——
$s_3(E)$	840	#4	2'-6"	⊐
$s_4(E)$	82	#5	9'-7"	□
$u_1(E)$	12	#6	10'-11"	⊐⊐
$u_2(E)$	28	#5	9'-1"	⊐⊐
$u_3(E)$	56	#5	10'-9"	⊐⊐
$v_3(E)$	168	#5	18'-3"	——
Structure Excavation		Cu. Yd.	92	
Concrete Structures		Cu. Yd.	110.4	
Reinforcement Bars, Epoxy Coated		Pound	10830	
Furnishing Steel Piles HP12x53		Foot	798	
Driving Piles		Foot	798	
Test Pile Steel HP12x53		Each	2	
Anchor Bolts, 1"		Each	28	
Concrete Encasement		Cu. Yd.	4.9	
Underwater Structure Excavation Protection, Location 1		Each	1	
Underwater Structure Excavation Protection, Location 2		Each	1	
Mechanical Splicers		Each	84	

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 21 of 26.
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 Art. 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
For bar splicer details, see sheet 20 of 26.



SECTION B-B

*PERRY/FRANKLIN

DESIGNED - Jessica C. Forrest	EXAMINED	Thomas J. Domagalski ENGINEER OF BRIDGE DESIGN	DATE - 5/10/2011	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PIERS 1 & 2 STRUCTURE NO. 073-0038**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
CHECKED - Nicholas R. Barnett						869	6B-2	•	27 / 19
DRAWN - h.t. duong	PASSED	A Carl Puzey ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 19 OF 26 SHEETS			CONTRACT NO. 98797	
CHECKED - JCF/NRB								ILLINOIS FED. AID PROJECT	