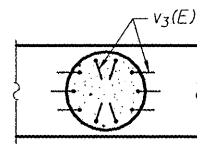


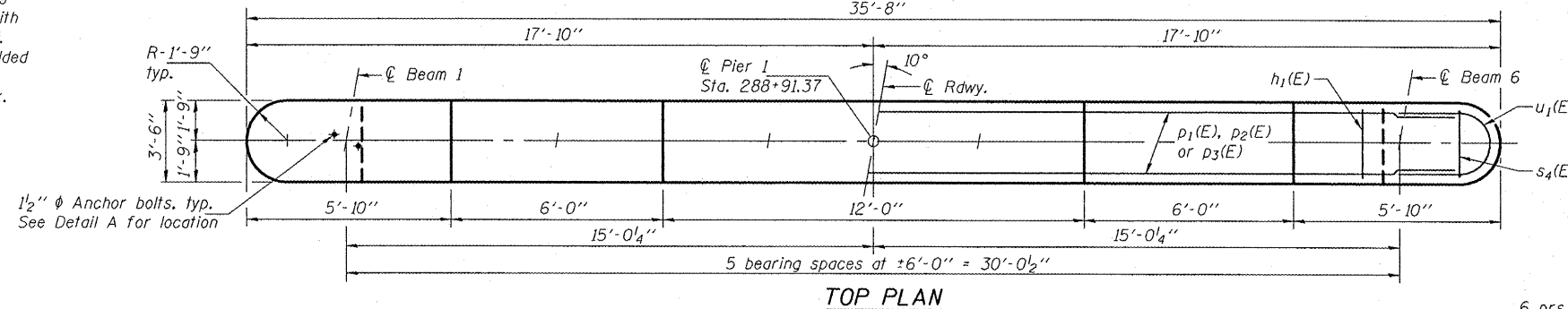
Notes: Space reinforcement in cap to miss anchor bolts.
Four steps monolithically with cap.
When splicing of spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.



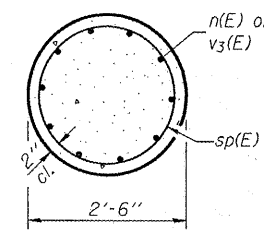
DETAIL B

Plan view of partial cap showing hook orientation of $v_3(E)$ bars.

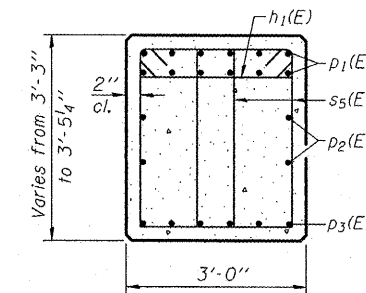
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



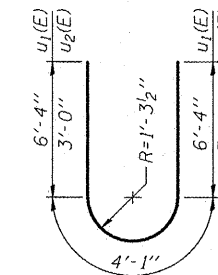
TOP PLAN



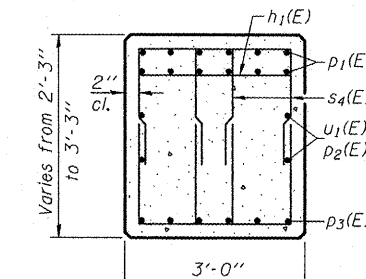
SEC. C-C



SEC. A-A



BARS $u_1(E)$ & $u_2(E)$

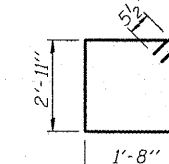


SEC. B-B

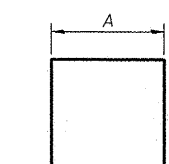
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	17	#4	2'-8"	—
$h_2(E)$	32	#5	25'-6"	—
$h_3(E)$	3	#8	25'-6"	—
$n(E)$	30	#9	9'-6"	—
$n_1(E)$	10	#5	4'-2"	—
$p_1(E)$	12	#8	32'-2"	—
$p_2(E)$	4	#7	32'-2"	—
$p_3(E)$	6	#8	35'-2"	—
$s_4(E)$	48	#5	6'-10"	—
$s_5(E)$	52	#5	10'-1"	—
$s_6(E)$	27	#8	24'-0"	—
$s_7(E)$	52	#8	27'-0"	—
$sp(E)$	3	#4	10'-0"	—
$t(E)$	48	#7	9'-6"	—
$t_1(E)$	32	#7	9'-6"	—
$u_1(E)$	6	#6	16'-9"	—
$u_2(E)$	34	#5	10'-1"	—
$v_3(E)$	30	#9	12'-11"	—
$v_4(E)$	10	#5	13'-8"	—
$w(E)$	20	#5	30'-6"	—
Structure Excavation			Cu. Yd.	112
Concrete Structures			Cu. Yd.	103.7
Reinforcement Bars,			Pound	14880
Epoxy Coated				
Furnishing Steel Piles			Foot	795
HP12x53				
Driving Piles			Foot	795
Anchor Bolts 1/2"			Each	12

*Weight includes spacers for spirals.
**Length is height of spiral.



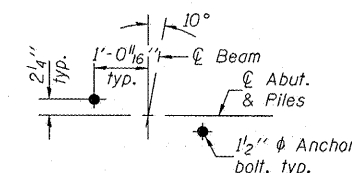
BAR $s_5(E)$



BARS $s_4(E)$, $s_6(E)$ & $s_7(E)$

A & B DIMENSIONS

Bar	A	B
$s_4(E)$	1'-8"	2'-7"
$s_6(E)$	3'-2"	10'-5"
$s_7(E)$	3'-2"	11'-11"

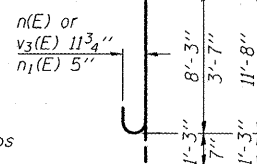


DETAIL A

**PIER 1
STRUCTURE NO. 074-0086**

PILE DATA

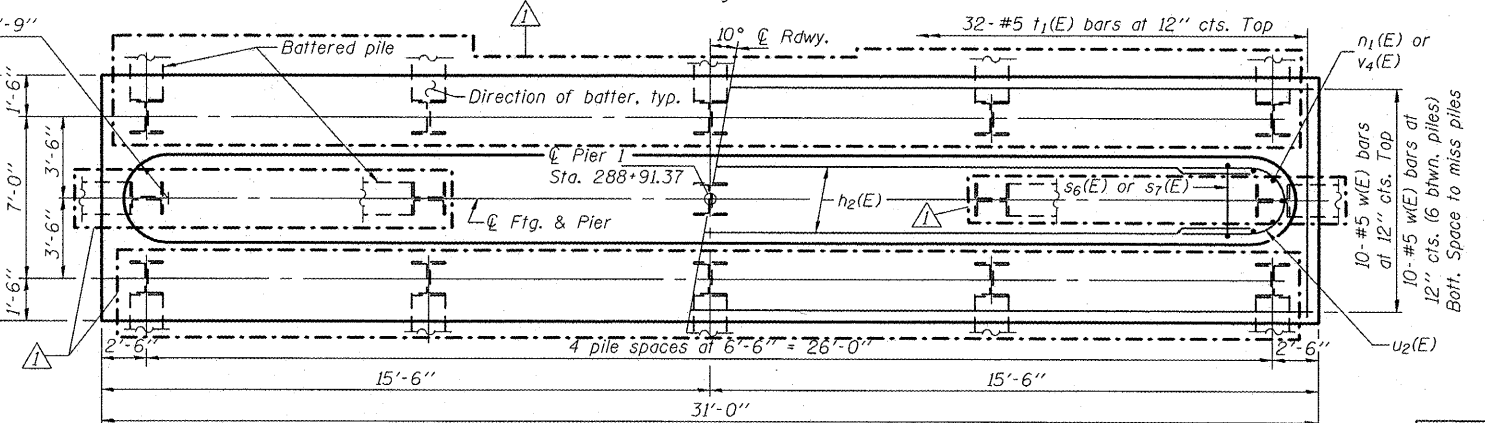
Type: Steel HP12x53
Nominal Required Bearing: 360 Kips
Factored Resistance Available: 180 Kips
Est. Length: 53'
No. Production Piles: 15
No. Test Piles: 0



BARS $n(E)$, $n_1(E)$ & $v_3(E)$

ELEVATION

(Looking east)



FOOTING PLAN

MIN. BAR LAPS

#5 bar = 2'-2"
#8 bar (lapped with #6 bar) = 6'-4"

DESIGNED	D.P. Narielwala
CHECKED	S.M. Ryan
DRAWN	h.t. duong
CHECKED	DPN/SMR

EXAMINED	Thomas J. Domagala
PASSED	Rafael E. Anderson

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18	1517	12VBR-1	PIATT	168	103
25 SHEETS					

Revised 12/17/2009, DPN