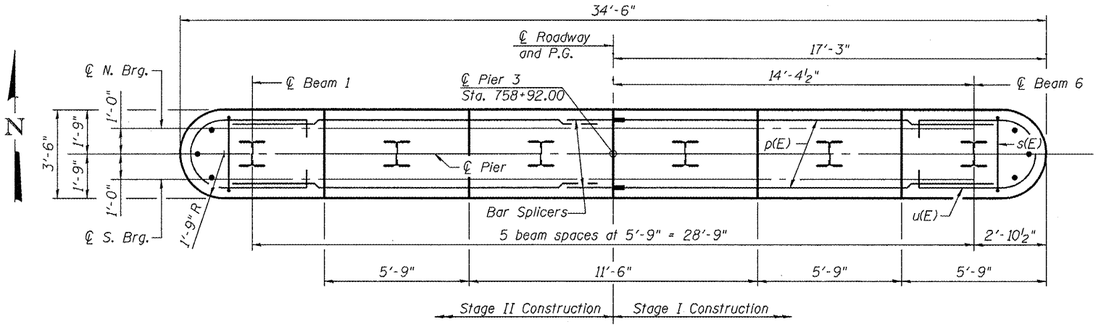
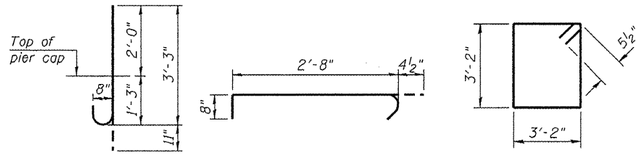
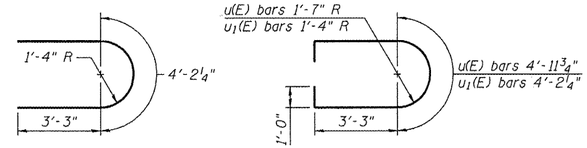


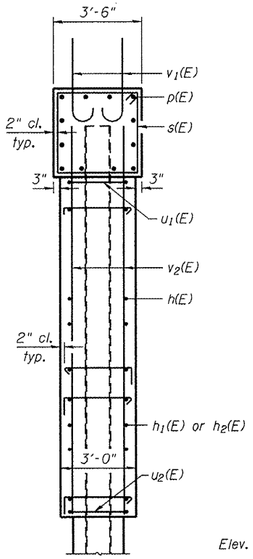
TOP PLAN



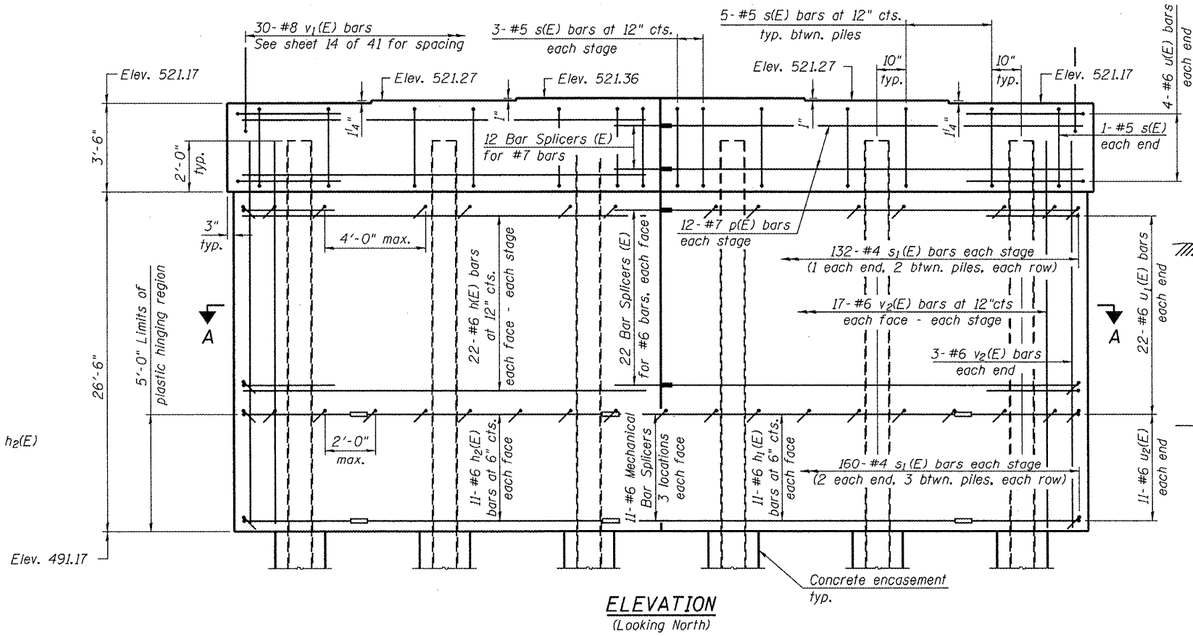
BAR $v_1(E)$ BAR $s_1(E)$ BAR $s(E)$



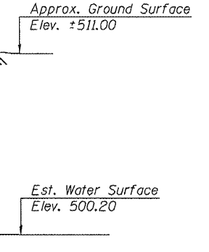
BARS $u_2(E)$ BARS $u(E)$ & $u_1(E)$



END VIEW



ELEVATION
(Looking North)

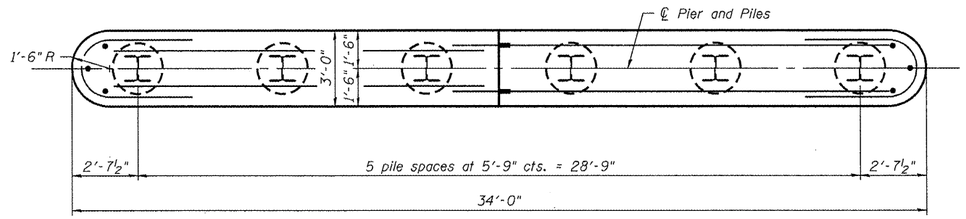


PIER 3
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	88	#6	15'-4"	——
$h_1(E)$	22	#6	13'-3"	——
$h_2(E)$	22	#6	11'-3"	——
p(E)	24	#7	15'-6"	——
s(E)	28	#5	13'-7"	□
$s_1(E)$	484	#4	3'-9"	⊔
u(E)	8	#6	13'-6"	⊃⊂
$u_1(E)$	44	#6	12'-8"	⊃⊂
$u_2(E)$	22	#6	10'-8"	⊃⊂
$v_1(E)$	30	#8	4'-2"	⊃⊂
$v_2(E)$	74	#6	28'-6"	——
Structure Excavation		Cu. Yd.	187	
Concrete Structures		Cu. Yd.	114	
Concrete Encasement		Cu. Yd.	3.3	
Reinforcement Bars, Epoxy Coated		Pound	10.060	
Furnishing Steel Piles HP 14x102		Foot	410	
Driving piles		Foot	410	
Test Piles Steel HP 14x102		Each	1	
Pile Shoes		Each	6	
Underwater Structure Excavation Protection, Location 1		Each	1	

PILE DATA

Type: HP 14x102 w/ Pile Shoes
Nominal Required Bearing: 810 k
Factored Resistance Available: 405 k
Est. Length: 82'-0"
No. Production Piles: 5
No. Test Piles: 1



SECTION A-A

Notes:

Pour steps monolithically with cap.

For details of piles and encasement, see sheet 31 of 41.

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.

For details of Bar Splicers and Mechanical Splicers see sheet 32 of 41.

USER NAME = dheberling	DESIGNED - BRD/FLL	REVISED -	
FILE NAME = 0550083-68482.dgn	CHECKED - SDS/JHP	REVISED -	
PLOT DATE = 12/21/2010	DRAWN - DLH	REVISED -	
PLOT TIME = 10:31:13 AM	CHECKED - CWC/SDS	REVISED -	

WHKS & CO. ENGINEERING
7018 KINGSMILL CT., SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3
S.N. 055-0083
SHEET NO. 29 OF 41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
542	105BR-1	MCDONOUGH	117	69
		CONTRACT NO. 68482		
		ILLINOIS FED. AID PROJECT		