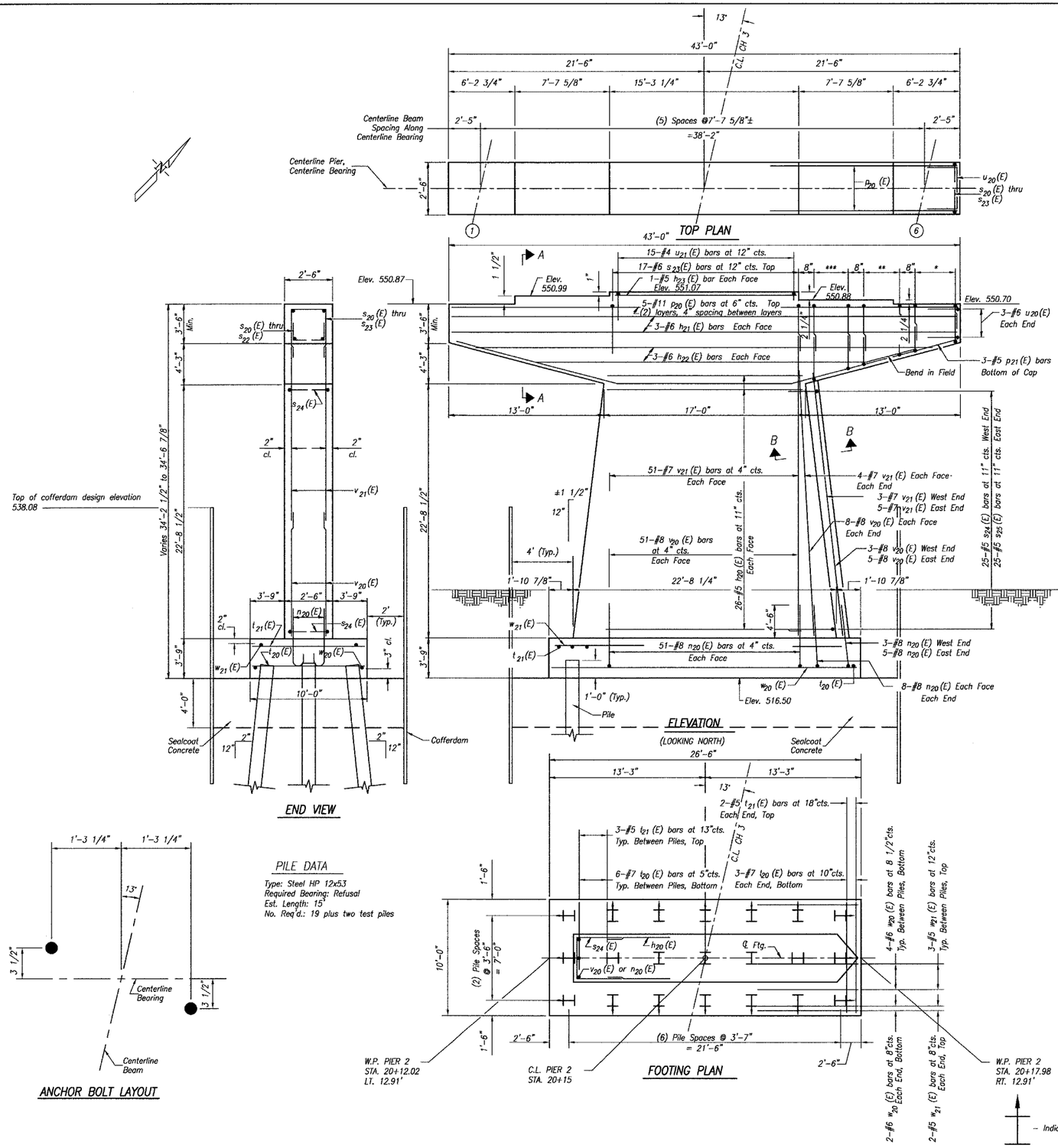
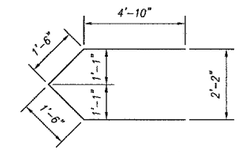


Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Sealcoat thickness shown is based on water elevation of 538.08
Final design and dimensions of cofferdams are contractor's responsibility.

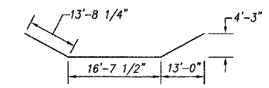
* 6-#6 s_{20} (E) bars at 8" cts. Top and Bottom, Each End

** 7-#6 s_{21} (E) bars at 8" cts. Top and Bottom, Each End

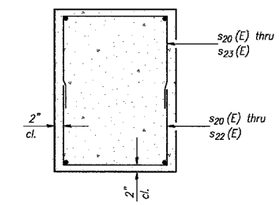
*** 7-#6 s_{22} (E) bars at 8" cts. Top and Bottom, Each End



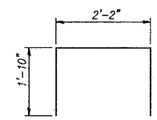
BARS s_{25} (E)



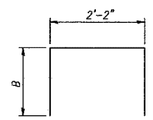
BARS p_{21} (E)



SECTION A–A



BAR u_{21} (E)



BARS s_{20} (E) thru s_{24} (E)

B DIMENSIONS

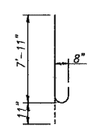
Bar	B
s_{20} (E)	3'-2"
s_{21} (E)	4'-0"
s_{22} (E)	4'-10"
s_{23} (E)	7'-9"
s_{24} (E)	4'-10"

BARS s_{20} (E) thru s_{24} (E)

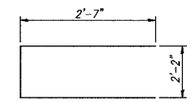
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{20} (E)	52	#5	16'-8"	
h_{21} (E)	6	#6	42'-8"	
h_{22} (E)	6	#6	39'-3"	
h_{23} (E)	2	#5	15'-0"	
n_{20} (E)	142	#8	8'-10"	
p_{20} (E)	10	#11	42'-8"	
p_{21} (E)	3	#6	44'-0"	
s_{20} (E)	24	#6	8'-6"	
s_{21} (E)	28	#6	10'-2"	
s_{22} (E)	28	#6	11'-10"	
s_{23} (E)	17	#6	17'-8"	
s_{24} (E)	25	#5	11'-10"	
s_{25} (E)	25	#5	12'-8"	
t_{20} (E)	42	#7	9'-8"	
t_{21} (E)	22	#5	9'-8"	
u_{20} (E)	6	#6	7'-4"	
u_{21} (E)	15	#4	5'-10"	
v_{20} (E)	142	#8	9'-10"	
v_{21} (E)	126	#7	18'-11"	
w_{20} (E)	12	#6	26'-2"	
w_{21} (E)	10	#5	26'-2"	
Cofferdam Excavation			Cu. Yd.	244.4
Cofferdam (Pier 2)			Each	1
Concrete Structures			Cu. Yd.	106.2
Sealcoat Concrete			Cu. Yd.	63.6
Reinforcement Bars, Epoxy Coated			Pound	20330
Furnishing Steel Piles HP 12x53			Foot	285
Driving Steel Piles			Foot	285
Test Pile HP 12x53			Each	2
Metal Shoes			Each	19

Reinforcement Bars designated (E) shall be epoxy coated.



BAR n_{20} (E)

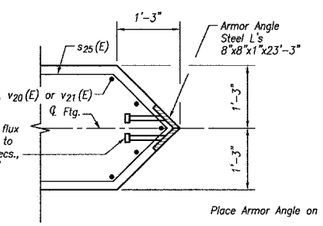


BAR u_{20} (E)

ANCHOR BOLT LAYOUT

PILE DATA

Type: Steel HP 12x53
Required Bearing: Refusal
Est. Length: 15'
No. Req'd.: 19 plus two test piles



3/4"ø x 8" granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 6" alt. ctrs.

SECTION B–B

Place Armor Angle on upstream end of pier only.

Maintain a minimum 2" clearance between armor angle and reinforcement.

The Armor Angle shall be galvanized in accordance with AASHTO M-111 and ASTM A-385.

Cost of Armor Angle shall be included in Furnishing and Erecting Structural Steel.

PIER 2 DETAILS
FAS 259 C.H. 3
OVER FOX RIVER
LA SALLE COUNTY
STA. 20+15.00
STRUCTURE NO. 050-3562

DRAWN BY: CHAMS	CAD: PIER1	REVISIONS DATE 3/08/04	BY NET	SCALE: AS NOTED	SHEET 50
CHECKED BY: JKC	DATE: 02/03			FILE NO.: 11174.01Y-1	OF 79