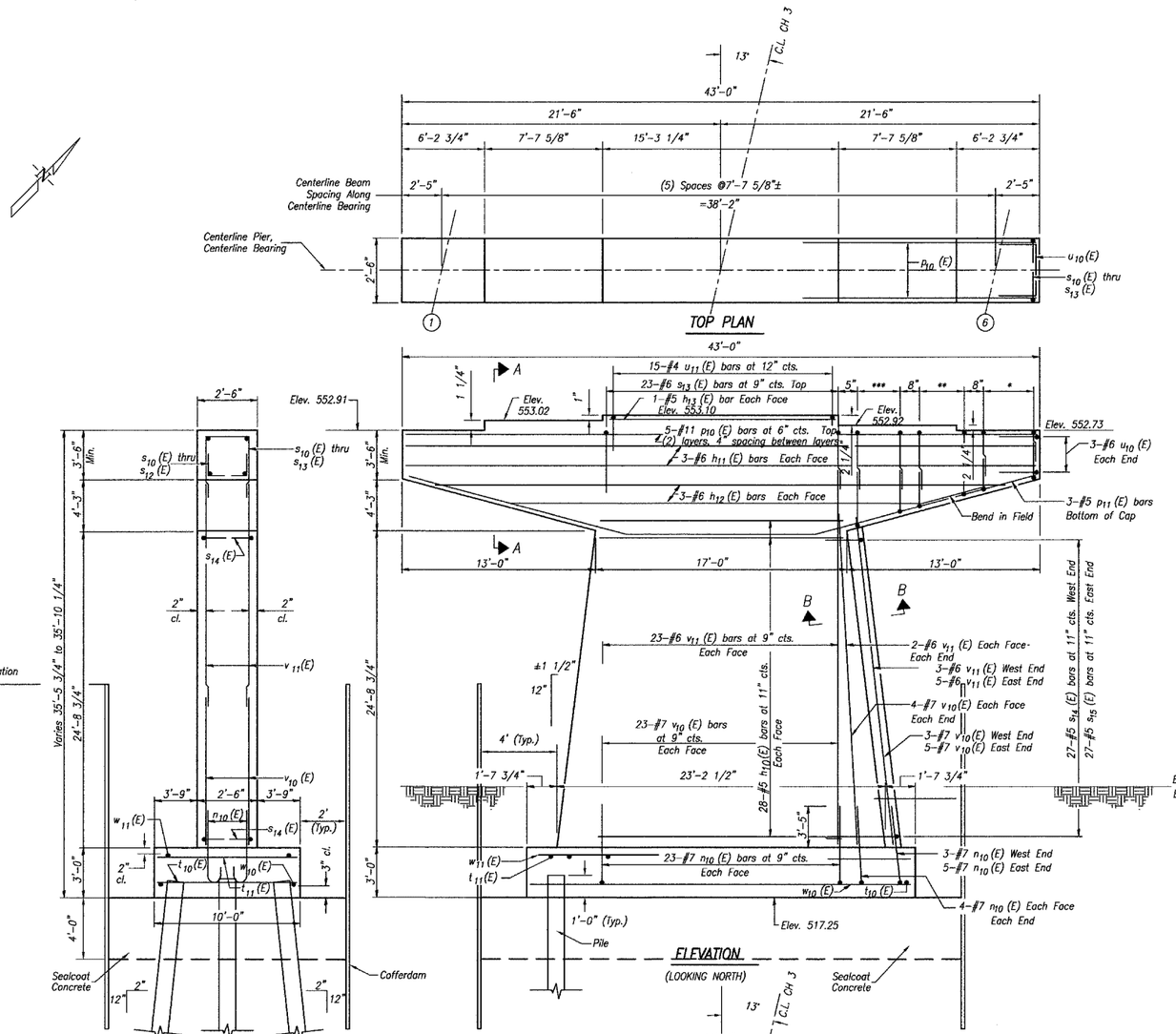
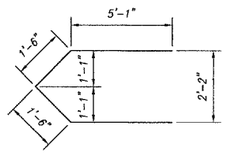



Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Sealcoat thickness shown is based on water elevation of 538.08
Final design and dimensions of cofferdams are contractor's responsibility.

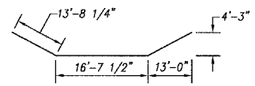
* 6-#6 $s_{10}$ (E) bars at 8" cts. Top and Bottom, Each End

** 7-#6 $s_{11}$ (E) bars at 8" cts. Top and Bottom, Each End

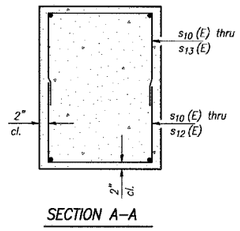
*** 7-#6 $s_{12}$ (E) bars at 8" cts. Top and Bottom, Each End



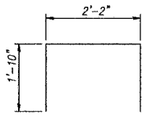

BARS $s_{15}$ (E)



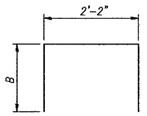

BARS $p_{11}$ (E)




SECTION A–A




BAR $u_{11}$ (E)

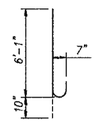



BARS $s_{10}$ (E) thru $s_{14}$ (E)

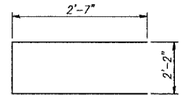
B DIMENSIONS

| Bar | B |
|---|---|
| $s_{10}$ (E) | 3'-2" |
| $s_{11}$ (E) | 4'-0" |
| $s_{12}$ (E) | 4'-10" |
| $s_{13}$ (E) | 7'-9" |
| $s_{14}$ (E) | 5'-1" |

BARS $s_{10}$ (E) thru $s_{14}$ (E)




BAR $n_{10}$ (E)

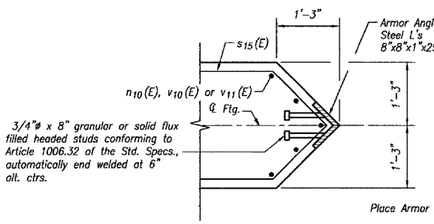



BAR $u_{10}$ (E)

BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| $h_{10}$ (E) | 56 | #5 | 16'-8" | |
| $h_{11}$ (E) | 6 | #6 | 42'-8" | |
| $h_{12}$ (E) | 6 | #6 | 39'-3" | |
| $h_{13}$ (E) | 2 | #5 | 15'-0" | |
| $n_{10}$ (E) | 70 | #7 | 6'-11" | |
| $p_{10}$ (E) | 10 | #11 | 42'-8" | |
| $p_{11}$ (E) | 3 | #6 | 44'-0" | |
| $s_{10}$ (E) | 24 | #6 | 8'-6" | |
| $s_{11}$ (E) | 28 | #6 | 10'-2" | |
| $s_{12}$ (E) | 28 | #6 | 11'-10" | |
| $s_{13}$ (E) | 23 | #6 | 17'-8" | |
| $s_{14}$ (E) | 27 | #5 | 12'-4" | |
| $s_{15}$ (E) | 27 | #5 | 13'-2" | |
| $t_{10}$ (E) | 36 | #7 | 9'-8" | |
| $t_{11}$ (E) | 19 | #5 | 9'-8" | |
| $u_{10}$ (E) | 6 | #6 | 7'-4" | |
| $u_{11}$ (E) | 15 | #4 | 5'-10" | |
| $v_{10}$ (E) | 70 | #7 | 16'-5" | |
| $v_{11}$ (E) | 62 | #6 | 13'-5" | |
| $w_{10}$ (E) | 10 | #6 | 26'-2" | |
| $w_{11}$ (E) | 8 | #5 | 26'-2" | |
| Cofferdam Excavation | | Cu. Yd. | 236.4 | |
| Cofferdam (Pier 1) | | Each | 1 | |
| Concrete Structures | | Cu. Yd. | 103.2 | |
| Sealcoat Concrete | | Cu. Yd. | 64.7 | |
| Reinforcement Bars, Epoxy Coated | | Pound | 13000 | |
| Furnishing Steel Piles HP 12x53 | | Foot | 240 | |
| Driving Steel Piles | | Foot | 240 | |
| Test Pile HP 12x53 | | Each | 2 | |
| Metal Shoes | | Each | 16 | |

Reinforcement Bars designated (E) shall be epoxy coated.




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

– Indicates Battered Pile Direction

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 1 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 | BY | SCALE: AS NOTED | SHEET 49 |
| CHECKED BY: JKC | DATE: 02/03 | 3/08/04 | NET | FILE NO.: 11174.01Y-1 | OF 79 |