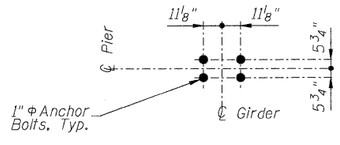
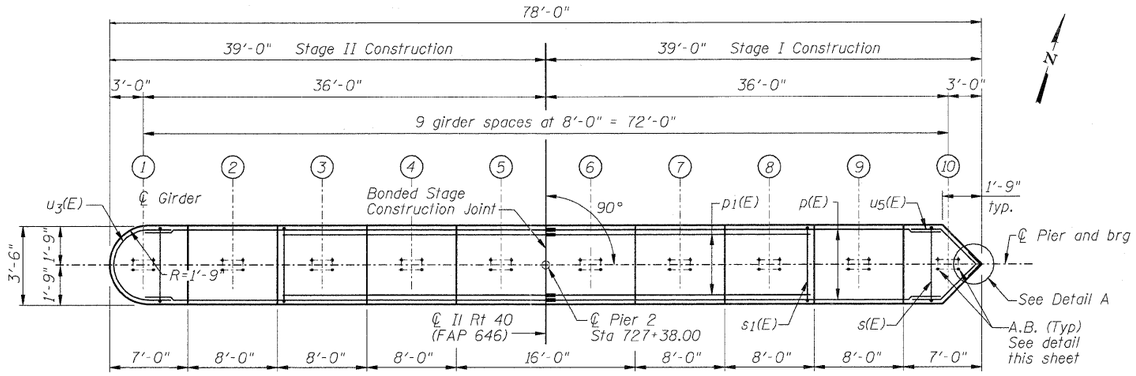


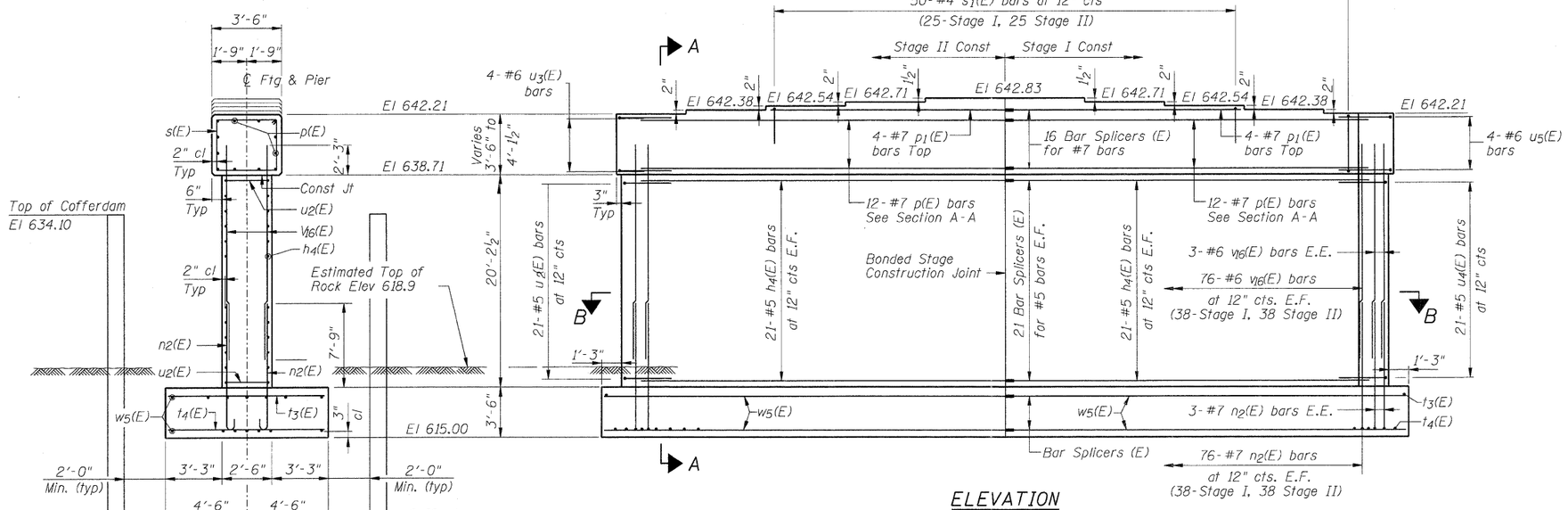

## A.B. LAYOUT DETAIL

## MIN. BAR LAP

#7 Bar = 5'-2"



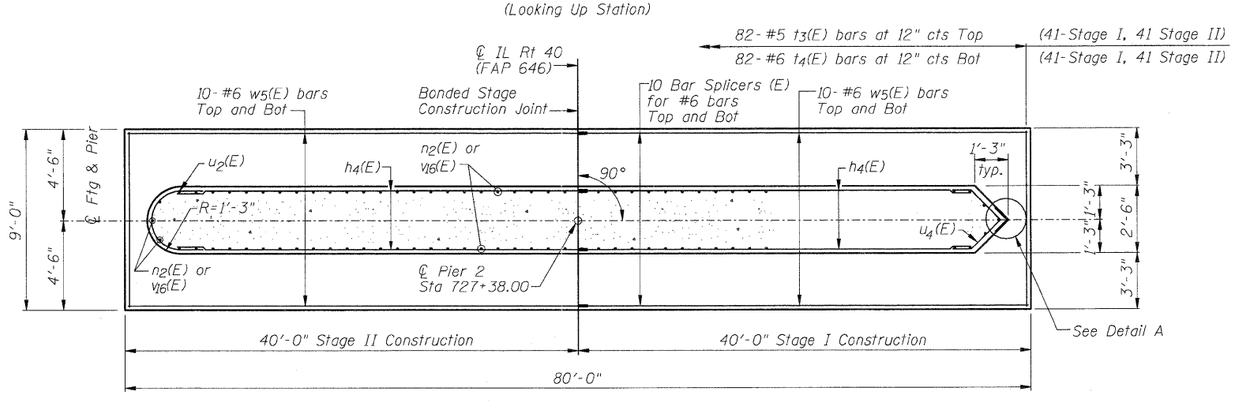

## TOP PLAN



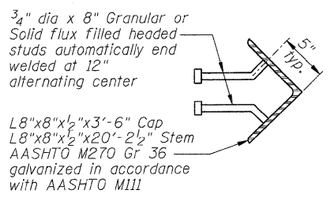

## SECTION A-A

## ELEVATION

(Looking Up Station)

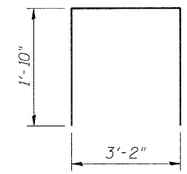



## SECTION B-B

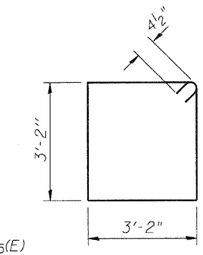



## DETAIL A

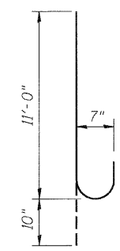
(Cost included with Concrete Structures)



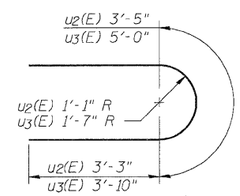

## BAR s1(E)



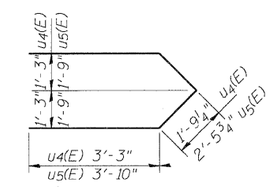

## BAR s(E)




## BAR n2(E)




## BARS u2(E) & u3(E)




## BARS u4(E) & u5(E)

## BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|---|---|---|---|---|
| h4(E) | 84 | #5 | 36'-9" | |
| n2(E) | 158 | #7 | 11'-10" | |
| p(E) | 24 | #7 | 37'-0" | |
| p1(E) | 8 | #7 | 23'-9" | |
| s(E) | 76 | #4 | 13'-5" | |
| s1(E) | 50 | #4 | 6'-10" | |
| t3(E) | 82 | #5 | 8'-8" | |
| t4(E) | 82 | #6 | 8'-8" | |
| u2(E) | 21 | #5 | 9'-11" | |
| u3(E) | 4 | #6 | 12'-8" | |
| u4(E) | 21 | #5 | 10'-1" | |
| u5(E) | 4 | #6 | 12'-8" | |
| v16(E) | 158 | #6 | 19'-11" | |
| w5(E) | 40 | #6 | 39'-9" | |
| Cofferdam Excavation | | | Cu. Yd. | 6 |
| Cofferdam (Location-3) | | | Each | 1 |
| Rock Excavation for Structures | | | Cu. Yd. | 106 |
| Concrete Structures | | | Cu. Yd. | 276.9 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 19670 |

## NOTES

Pour steps monolithically with cap.

For details of Bar Splicers, see sheet 82 of 103.

All edges shall have standard ¾" chamfer.

Space reinforcement in cap to miss anchor bolts.

Final design and dimensioning of cofferdams are the responsibility of the contractor.

Allowable Bearing Resistance, Qa = 10 ksf

Maximum Applied Service Bearing Pressure, Qmax = 8.79 ksf

| | | | |
|---|---|---|---|
| FILE NAME = D264B80-sht-pier2.dgn | USER NAME = dwozniarski | DESIGNED - ACB | REVISED - |
| | | CHECKED - JMB | REVISED - |
| | PLOT SCALE = 4.0000 ' / IN. | DRAWN - RLK | REVISED - |
| | PLOT DATE = 7/18/2011 | CHECKED - ACB | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**PIER NO. 2**
**STRUCTURE NO. 098-0115**

SHEET NO. 72 OF 103 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 646 | 1B-2 | WHITESIDE | 257 | 175 |
| | | CONTRACT NO. 64B80 | | |
| | | ILLINOIS FED. AID PROJECT | | |