



BILL OF MATERIAL ONE PIER

| Bar | No. | Size | Length | Shape |
|--|-----|------|---------|-------|
| p4(E) | 8 | #7 | 17'-10" | — |
| p5(E) | 8 | #7 | 24'-9" | — |
| p6(E) | 6 | #5 | 17'-10" | — |
| p7(E) | 6 | #5 | 24'-9" | — |
| s2(E) | 32 | #4 | 13'-5" | □ |
| s3(E) | 4 | #4 | 14'-5" | □ |
| s4(E) | 66 | #4 | 4'-2" | U |
| u1(E) | 10 | #6 | 11'-6" | — |
| Concrete Structures | | | Cu. Yd. | 20.5 |
| Concrete Encasement | | | Cu. Yd. | 13.2 |
| Reinforcement Bars, Epoxy Coated | | | Pound | 1,650 |
| Furnishing Steel Piles HP 12x74 | | | Foot | 224 |
| Setting Piles in Rock | | | Each | 7 |
| Underwater Structure Excavation Protection-Location 1-Pier 1 | | | Each | 1 |
| Underwater Structure Excavation Protection-Location 2-Pier 2 | | | Each | 1 |

For Details of Bar Splicers, see sheet 13 of 14.
For Details of Piles and Concrete Encasement, see sheet 12 of 14.

PILE DATA

| | PIER 1 | PIER 2 |
|--------------------------------|----------------|----------------|
| Type: | Steel HP 12x74 | Steel HP 12x74 |
| Nominal Required Bearing: | 589 k | 589 k |
| Factored Resistance Available: | 294 k | 294 k |
| Est. Length: | 32 ft.± | 32 ft.± |
| No. Production Piles: | 7 | 7 |
| No. Test Piles: | 0 | 0 |

| | |
|----------|--------|
| DESIGNED | K.M.M. |
| CHECKED | L.D.G. |
| DRAWN | K.H.L. |
| CHECKED | B.G.H. |

NOTES

- Space reinforcement in pile cap to miss dowel rods.
- Top of concrete cap shall be finished parallel to the centerline of the roadway.

PIERS 1 & 2

| SHEET NO. | II | F.A.S. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----|----------|------------------|--------|--------------------|-----------|
| | | 783 | 02-00074-00-BR | BOND | 25 | 18 |
| 14 SHEETS | | | S.N. 003-3050 | | CONTRACT NO. 97446 | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | | |