

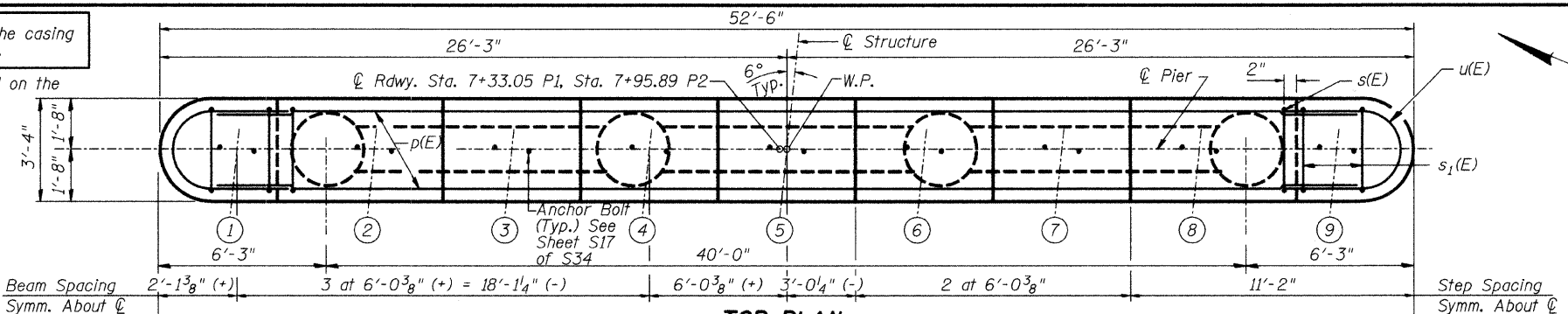
| | | | | |
|-----------------------|---------|----------|------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DUPAGE | 106 | 45 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT | |

*** Contractor is responsible for determining the casing thickness and the actual tip elevation to be used.

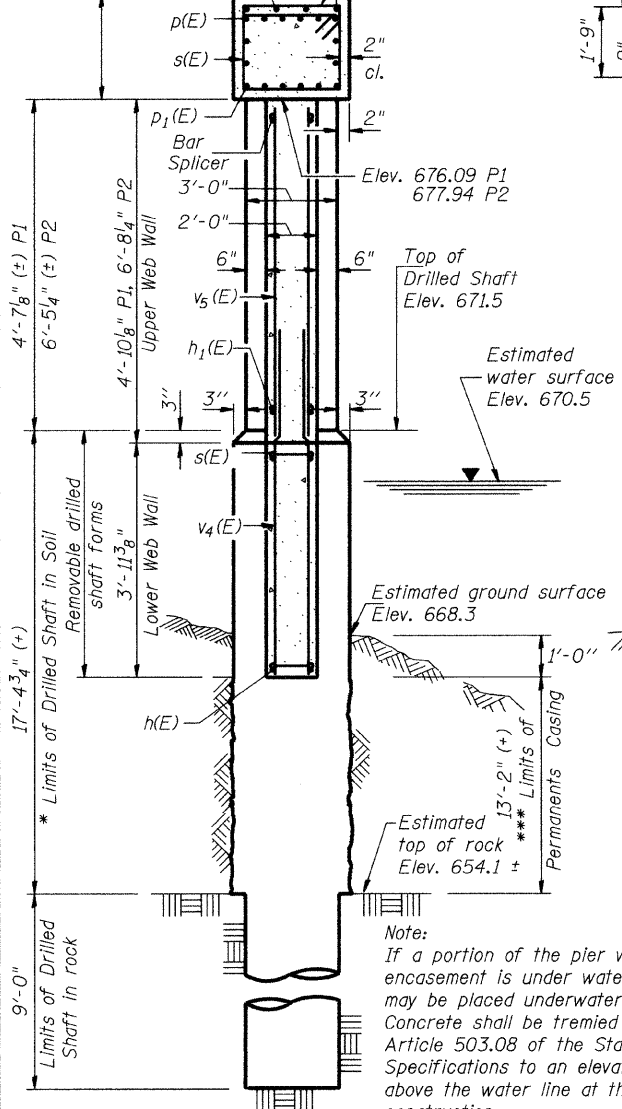
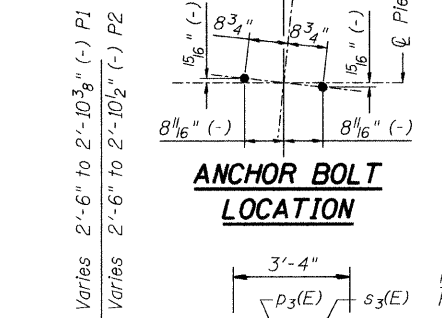
Pay limits for the Permanent Casing are based on the minimum length shown.

Construction Sequence for Web Wall:

1. Excavate between shafts to elevation of web wall base and set lower web wall forms through water to bear on the circular edge of drilled shafts. Secure in place with fill, struts or tie forms together as required.
2. Place the lower web wall reinforcement cage into the forms using spacers to maintain proper clearances.
3. If the forms can be sealed against the shafts and streambed to allow dewatering, the reinforcement and the concrete placement may be completed in the dry. Alternatively, the rebar cage can be lowered into position through water and the concrete discharged at the base of the excavation through a tremie pipe or pump hose, displacing water, sediment, and tainted concrete out the top of the forms.
4. Construct Columns.
5. Construct upper web walls.



ANCHOR BOLT LOCATION

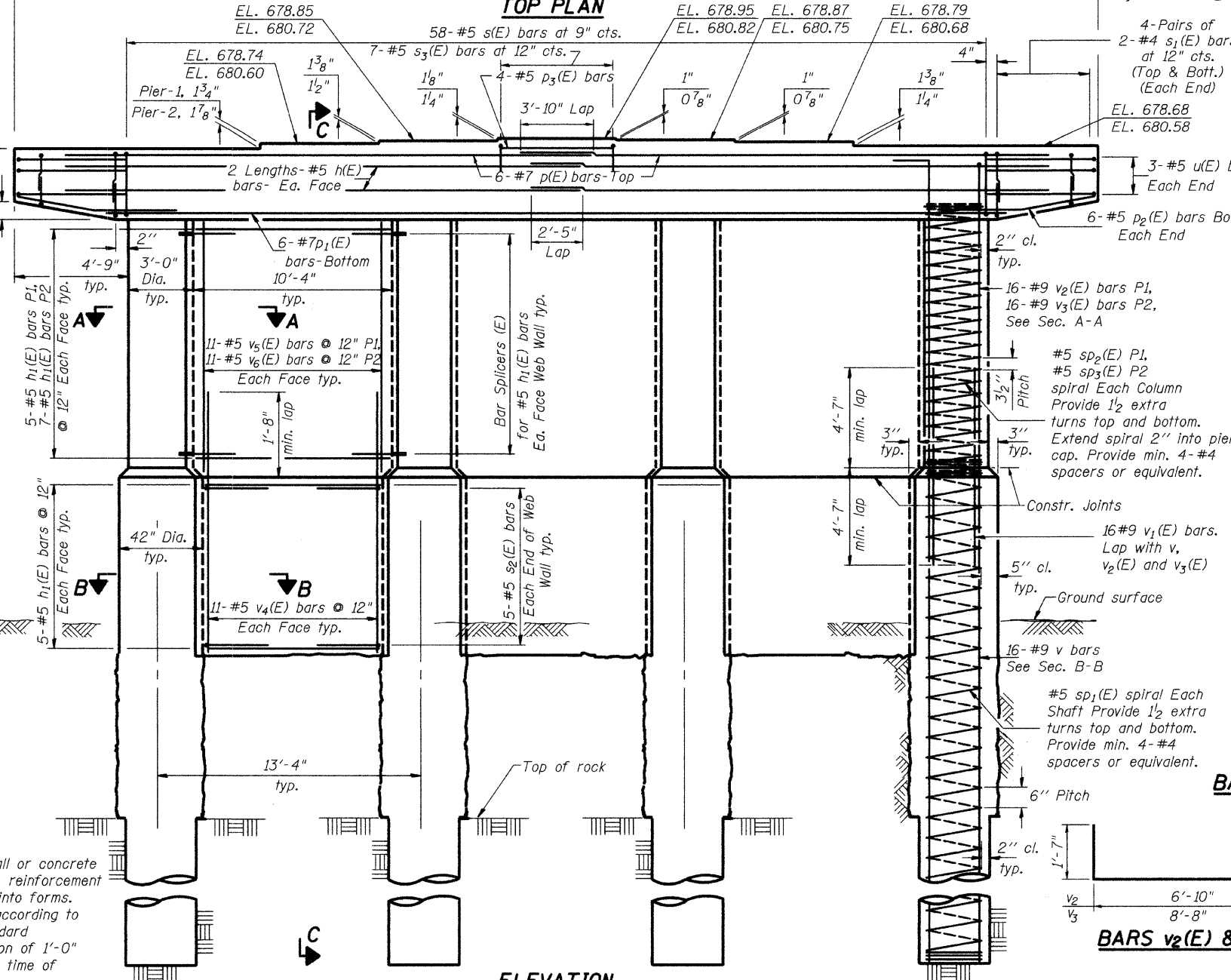


SECTION C-C

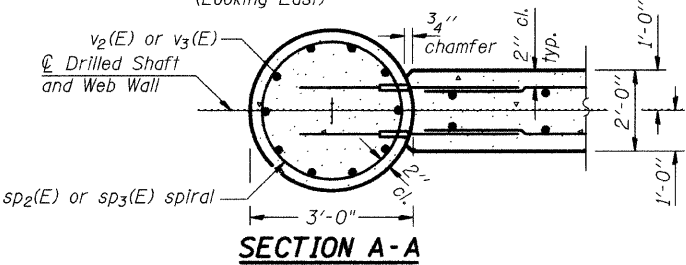
Note:
If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

| | |
|----------|-----|
| DESIGNED | JJI |
| CHECKED | SRT |
| DRAWN | GM |
| CHECKED | SRT |

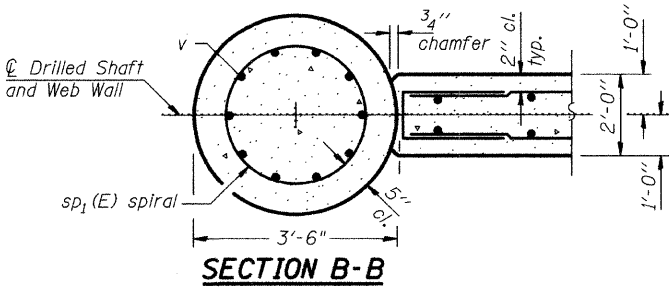
P-DSWW



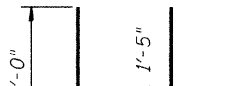
ELEVATION (Looking East)



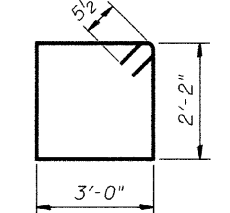
SECTION A-A



SECTION B-B

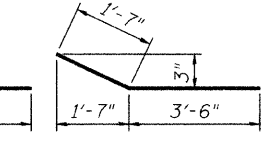


BAR u(E)



BAR s(E)

BARS s1(E), s2(E) & s3(E)



BARS v2(E) & v3(E)

BAR p2(E)

BILL OF MATERIAL - TWO PIERS

| Bar | No. | Size | Length | Shape |
|----------------------------------|---------|------|---------|-------|
| h(E) | 16 | #5 | 25'-10" | — |
| h1(E) | 132 | #5 | 9'-7" | — |
| p(E) | 24 | #7 | 26'-8" | — |
| p1(E) | 12 | #7 | 43'-4" | — |
| p2(E) | 24 | #5 | 5'-1" | — |
| p3(E) | 8 | #5 | 5'-9" | — |
| s(E) | 116 | #5 | 11'-3" | □ |
| s1(E) | 64 | #4 | 5'-2" | U |
| s2(E) | 60 | #5 | 5'-4" | U |
| s3(E) | 14 | #5 | 5'-0" | U |
| sp1(E) | 8 | #5 | 26'-5" | ⋈ |
| sp2(E) | 4 | #5 | 4'-9" | ⋈ |
| sp3(E) | 4 | #5 | 6'-7" | ⋈ |
| u(E) | 12 | #5 | 10'-6" | — |
| v | 128 | #9 | 26'-2" | — |
| v1(E) | 128 | #9 | 9'-2" | — |
| v2(E) | 64 | #9 | 8'-5" | — |
| v3(E) | 64 | #9 | 10'-3" | — |
| v4(E) | 132 | #5 | 5'-6" | — |
| v5(E) | 66 | #5 | 4'-7" | — |
| v6(E) | 66 | #5 | 6'-5" | — |
| Underwater Structure | | | | |
| Excavation Protection Location 2 | Each | | | 1 |
| Underwater Structure | | | | |
| Excavation Protection Location 3 | Each | | | 1 |
| Drilled Shaft in Soil | Cu. Yd. | | 49.9 | |
| Drilled Shaft in Rock | Cu. Yd. | | 18.9 | |
| Concrete Structures | Cu. Yd. | | 90.5 | |
| Reinforcement Bars, Epoxy Coated | Pound | | 20,800 | |
| Reinforcement Bars | Pound | | 11,500 | |
| Bar Splicers | Each | | 144 | |
| Permanent Casing | Foot | | 106 | |

Reinforcement Bars designated (E) shall be epoxy coated.
Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
Minimum lap for spirals = 1 1/2 turns.
***Length is height of spiral.

PIERS 1 & 2

JEFFERSON AVENUE OVER
WEST BRANCH DUPAGE RIVER
FAU 3570 SECTION 00-00116-00-BR
DUPAGE COUNTY
STA. 7+64.45
STRUCTURE NUMBER 022-6756