

NOTES

FOR NOTES, SEE SHEET 1 OF 5.

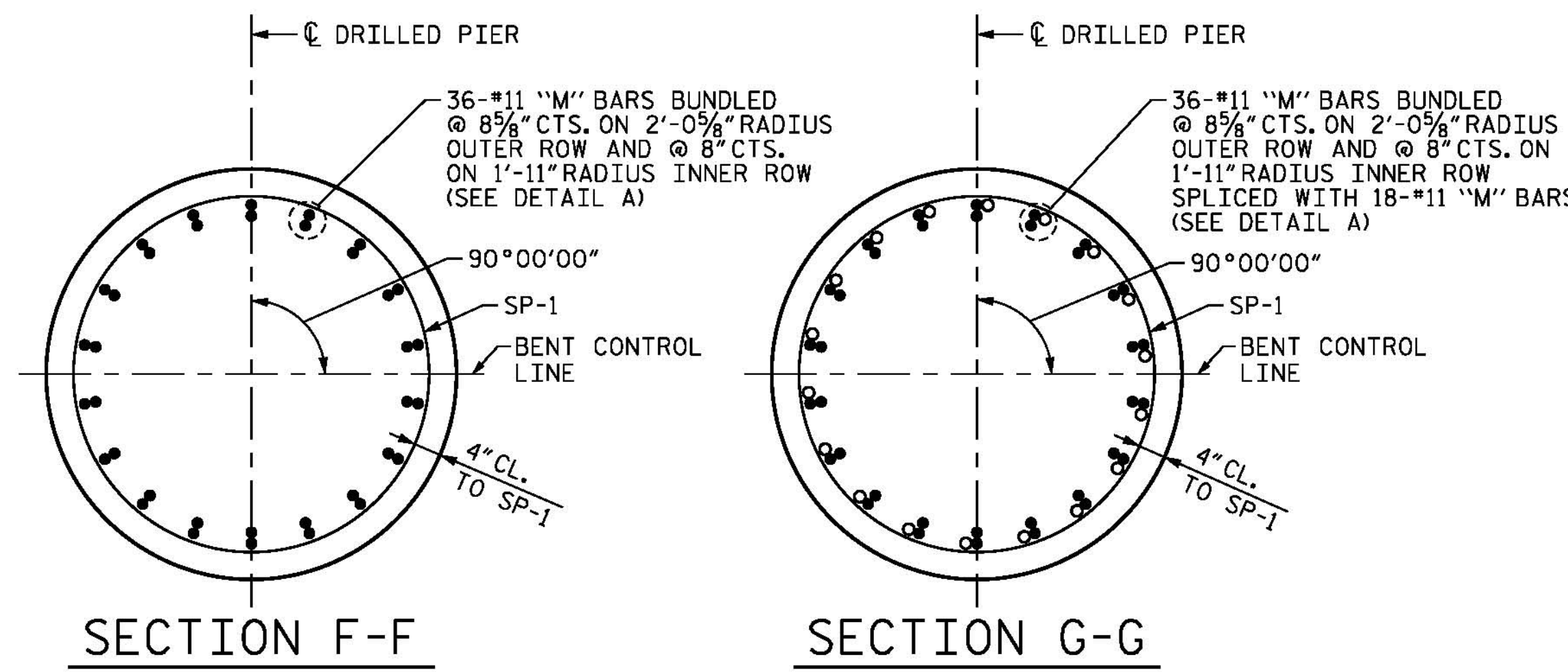
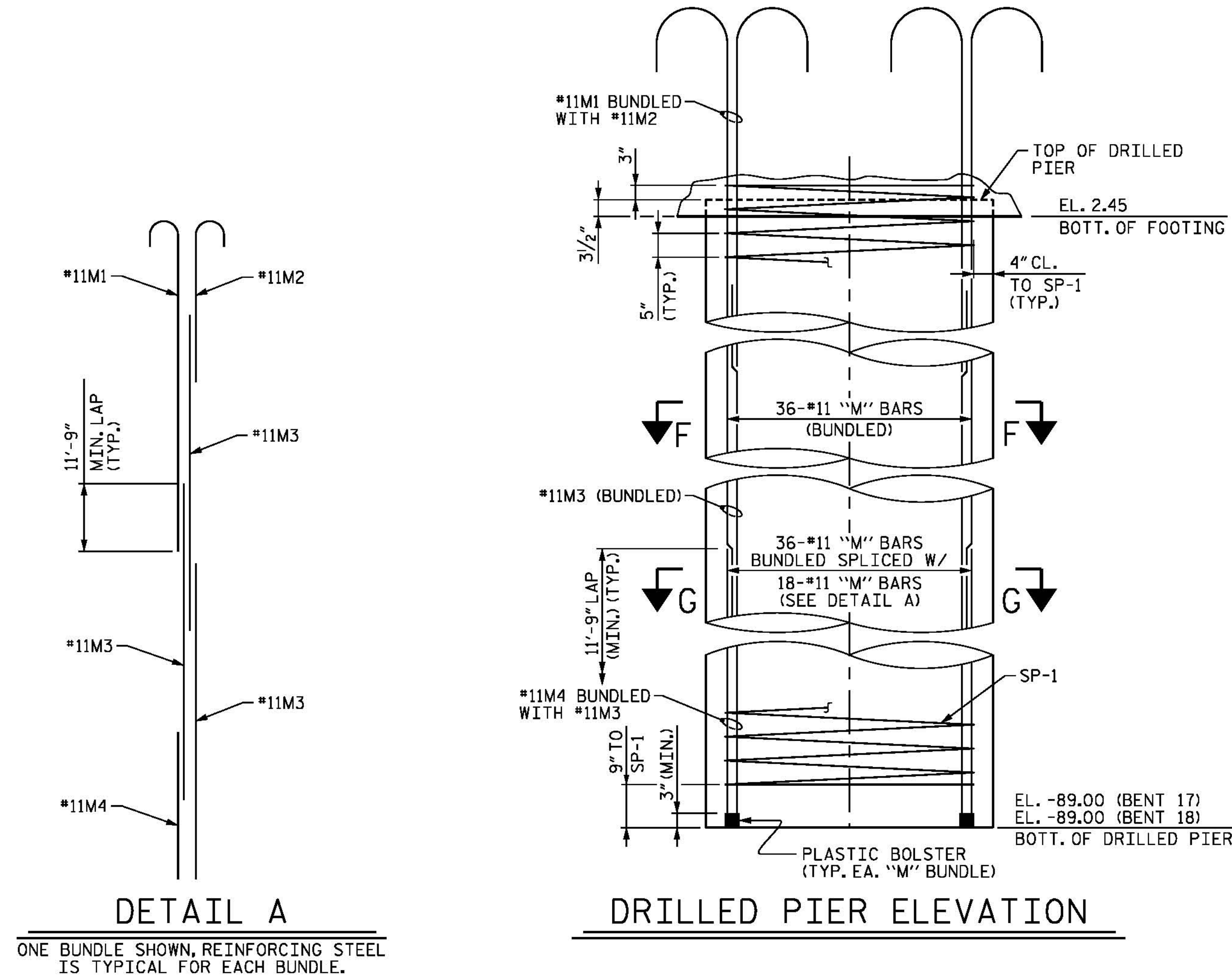
FOR BAR TYPES, SEE SHEET 5 OF 5.

BILL OF MATERIAL

BENT 17

| BAR   | NUMBER | SIZE | TYPE | LENGTH  | WEIGHT | BAR  | NUMBER | SIZE | TYPE | LENGTH    | WEIGHT |
|---|--------|------|------|---------|--------|------|--------|------|------|-----------|--------|
| B1  | 10     | #11  | 1    | 53'-0"  | 2816   | T1   | 93     | #9   | STR  | 54'-4"    | 17180  |
| B2  | 10     | #11  | STR  | 49'-10" | 2648   | T2   | 134    | #9   | STR  | 24'-4"    | 11086  |
| B3  | 10     | #10  | STR  | 40'-4"  | 1736   | T3   | 83     | #6   | STR  | 24'-4"    | 3034   |
| B4  | 6      | #10  | STR  | 42'-0"  | 1084   | T4   | 20     | #6   | STR  | 54'-4"    | 1632   |
| B5  | 10     | #10  | 2    | 10'-0"  | 430    | T5   | 138    | #5   | STR  | 7'-2"     | 1032   |
| B6  | 10     | #10  | 3    | 10'-0"  | 430    | T6   | 316    | #5   | 9    | 8'-6"     | 2801   |
| B7  | 14     | #7   | STR  | 49'-10" | 1426   |      |        |      |      |           |        |
| B8  | 2      | #7   | STR  | 47'-4"  | 193    | U1   | 50     | #4   | 9    | 9'-5"     | 315    |
| B9  | 2      | #7   | STR  | 44'-8"  | 183    | U2   | 10     | #4   | 9    | 8'-3"     | 55     |
| B10   | 40     | #4   | STR  | 6'-3"   | 167    | U3   | 6      | #4   | 9    | 8'-2"     | 33     |
| B11   | 10     | #4   | STR  | 5'-2"   | 35     | U4   | 6      | #4   | 9    | 8'-0"     | 32     |
| B12   | 24     | #4   | STR  | 5'-5"   | 87     |      |        |      |      |           |        |
|   |        |      |      |         |        | V1   | 36     | #11  | 4    | 45'-11"   | 8782   |
| D1  | 26     | #6   | STR  | 39'-4"  | 1536   | V2   | 36     | #11  | 4    | 46'-9"    | 8942   |
| D2  | 48     | #5   | 9    | 10'-4"  | 517    | V3   | 72     | #11  | 8    | 21'-2"    | 8097   |
| M1  | 144    | #11  | 4    | 46'-2"  | 35321  |      |        |      |      |           |        |
| M2  | 144    | #11  | 4    | 21'-10" | 16704  |      |        |      |      |           |        |
| M3  | 432    | #11  | STR  | 50'-0"  | 114761 |      |        |      |      |           |        |
| M4  | 144    | #11  | STR  | 25'-8"  | 19637  |      |        |      |      |           |        |
| S1  | 118    | #5   | 5    | 5'-1"   | 626    |      |        |      |      |           |        |
| S2  | 74     | #5   | 6    | 20'-0"  | 1544   |      |        |      |      |           |        |
| S3  | 2      | #5   | 6    | 19'-9"  | 41     |      |        |      |      |           |        |
| S4  | 2      | #5   | 6    | 19'-4"  | 40     |      |        |      |      |           |        |
| S5  | 2      | #5   | 6    | 18'-11" | 39     |      |        |      |      |           |        |
| S6  | 2      | #5   | 6    | 18'-5"  | 38     |      |        |      |      |           |        |
| S7  | 2      | #5   | 6    | 18'-0"  | 38     |      |        |      |      |           |        |
| S8  | 2      | #5   | 6    | 17'-7"  | 37     |      |        |      |      |           |        |
| S9  | 2      | #5   | 6    | 17'-2"  | 36     |      |        |      |      |           |        |
| S10   | 2      | #5   | 6    | 16'-8"  | 35     |      |        |      |      |           |        |
| S11   | 2      | #5   | 6    | 16'-3"  | 34     | SP-1 | 8      | *    | 10   | 2,987'-1" | 24,924 |
| S12   | 2      | #5   | 6    | 15'-10" | 33     |      |        |      |      |           |        |
| S13   | 2      | #5   | 6    | 15'-5"  | 32     |      |        |      |      |           |        |
| S14   | 2      | #5   | 6    | 19'-11" | 42     |      |        |      |      |           |        |
| S15   | 2      | #5   | 6    | 19'-7"  | 41     |      |        |      |      |           |        |
| S16   | 2      | #5   | 6    | 19'-3"  | 40     |      |        |      |      |           |        |
| S17   | 2      | #5   | 6    | 18'-9"  | 39     |      |        |      |      |           |        |
| S18   | 2      | #5   | 6    | 18'-5"  | 38     |      |        |      |      |           |        |
| S19   | 2      | #5   | 6    | 18'-0"  | 38     |      |        |      |      |           |        |
| S20   | 2      | #5   | 6    | 17'-7"  | 37     |      |        |      |      |           |        |
| S21   | 2      | #5   | 6    | 17'-3"  | 36     |      |        |      |      |           |        |
| S22   | 2      | #5   | 6    | 16'-10" | 35     |      |        |      |      |           |        |
| S23   | 2      | #5   | 6    | 16'-5"  | 34     |      |        |      |      |           |        |
| S24   | 2      | #5   | 6    | 16'-0"  | 33     |      |        |      |      |           |        |
| S25   | 26     | #5   | 6    | 21'-3"  | 576    |      |        |      |      |           |        |
| S26   | 338    | #5   | 7    | 14'-1"  | 4965   |      |        |      |      |           |        |
| S27   | 676    | #5   | 11   | 4'-6"   | 3173   |      |        |      |      |           |        |
| EPOXY COATED REINFORCING STEEL LBS. 274,432                     |        |      |      |         |        |      |        |      |      |           |        |
| EPOXY COATED SPIRAL COLUMN REINFORCING STEEL LBS. 24,924        |        |      |      |         |        |      |        |      |      |           |        |
| CLASS "AA" CONCRETE BREAKDOWN                                   |        |      |      |         |        |      |        |      |      |           |        |
| POUR #2 - FOOTING C.Y. 412.4                                    |        |      |      |         |        |      |        |      |      |           |        |
| POUR #3 - STRUT C.Y. 61.5                                       |        |      |      |         |        |      |        |      |      |           |        |
| POUR #4 - COLUMNS C.Y. 88.2                                     |        |      |      |         |        |      |        |      |      |           |        |
| POUR #5 - CAP C.Y. 87.6   |        |      |      |         |        |      |        |      |      |           |        |
| CLASS "AA" CONCRETE C.Y. 649.7                                  |        |      |      |         |        |      |        |      |      |           |        |
| 5'-0" Ø DRILLED PIERS QUANTITIES:                               |        |      |      |         |        |      |        |      |      |           |        |
| DRILLED PIER LIN. FT. 733.9                                     |        |      |      |         |        |      |        |      |      |           |        |
| POUR 1 - DRILLED PIER C.Y. 533.8                                |        |      |      |         |        |      |        |      |      |           |        |
| PERMANENT STEEL CASING FOR 5'-0" Ø DRILLED PIERS LIN. FT. 197.9 |        |      |      |         |        |      |        |      |      |           |        |
| CSL TUBES LIN. FT. 3,730  |        |      |      |         |        |      |        |      |      |           |        |

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN DEFORMED BAR.



PROJECT NO. B-4929

PENDER COUNTY

STATION: 38+13.81 -L2-

SHEET 4 OF 5 STEEL ALTERNATE

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

SUBSTRUCTURE  
BENTS 17 AND 18  
BILL OF MATERIALS



DocuSigned by:  
Jason R. Doughty

**PARSONS BRINCKERHOFF**  
434 FAYETTEVILLE STREET  
SUITE 1500  
RALEIGH, NC 27601  
LICENSE NO. F-0165

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

| REVISIONS |     |       |     |     |       | SHEET NO.    |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1         |     |       | 3   |     |       | 278          |
| 2         |     |       | 4   |     |       |              |

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DESIGNED BY: E. ULLMER DATE: APR 2016  
DRAWN BY: M. HOBBS DATE: APR 2016  
CHECKED BY: B. LOFLIN DATE: APR 2016  
DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016