

**BILL OF MATERIAL  
FOR ONE PIECE EB1-02**

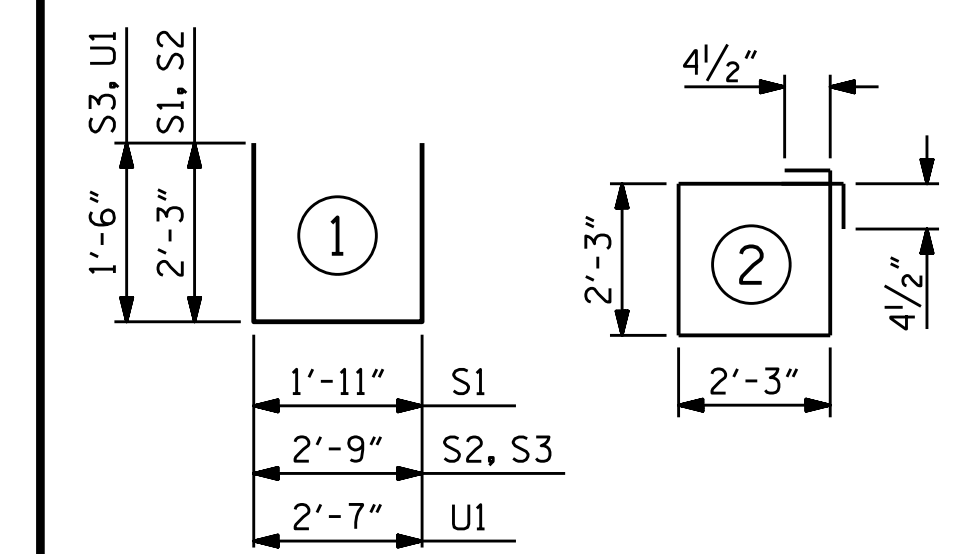
| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|-----|-----|------|------|--------|--------|
| B2  | 3   | #4   | STR  | 2'-8"  | 5      |
| B3  | 6   | #4   | STR  | 9'-11" | 40     |
| D1  | 6   | #6   | STR  | 1'-6"  | 14     |
| S1  | 8   | #5   | 1    | 6'-5"  | 54     |
| S2  | 8   | #5   | 1    | 7'-3"  | 60     |
| S3  | 8   | #5   | 1    | 5'-9"  | 48     |
| S4  | 6   | #4   | 2    | 9'-9"  | 39     |
| U1  | 6   | #4   | 1    | 5'-7"  | 22     |

REINFORCING STEEL 282 LBS

4000 PSI PRESTRESS CONCRETE 2.5 C.Y.  
PILE BLOCKOUT GROUT ▲ 0.2 C.Y.

0.6" Ø L.R. STRANDS No. 12

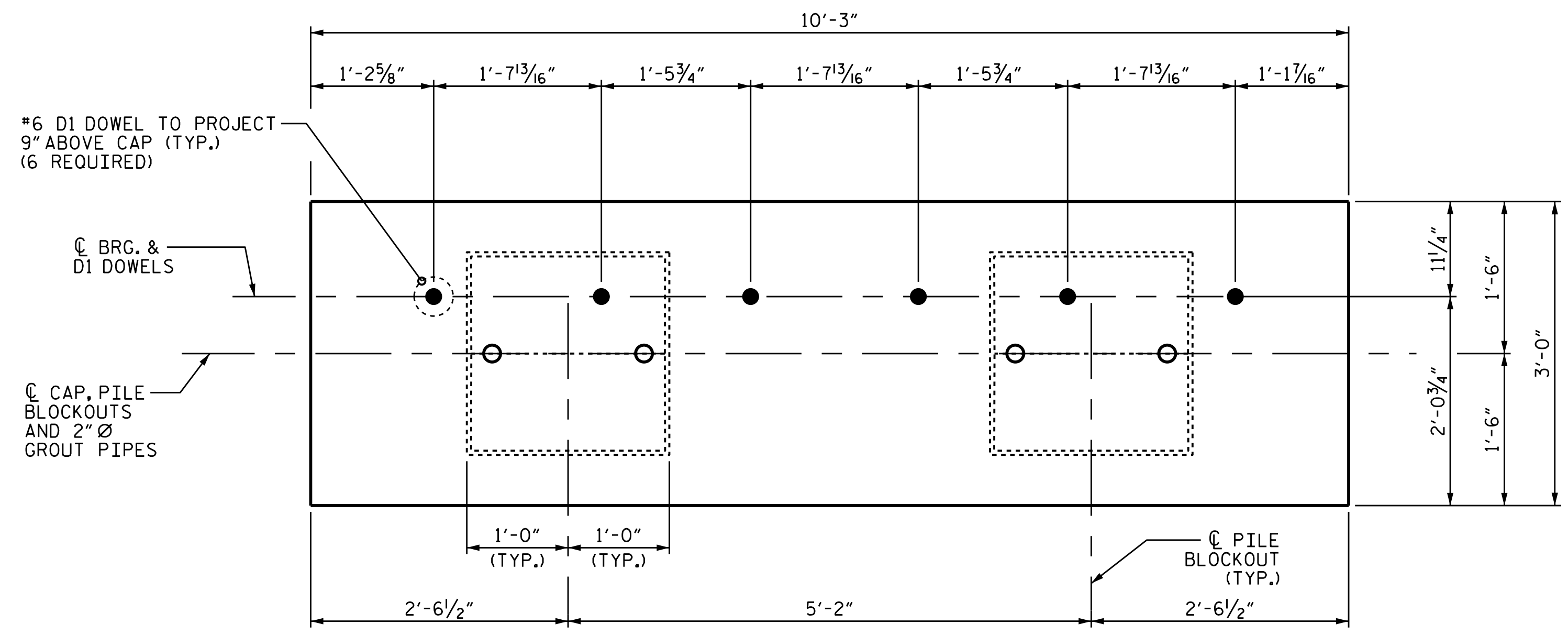
**BAR TYPES**



ALL BAR DIMENSIONS ARE OUT TO OUT.

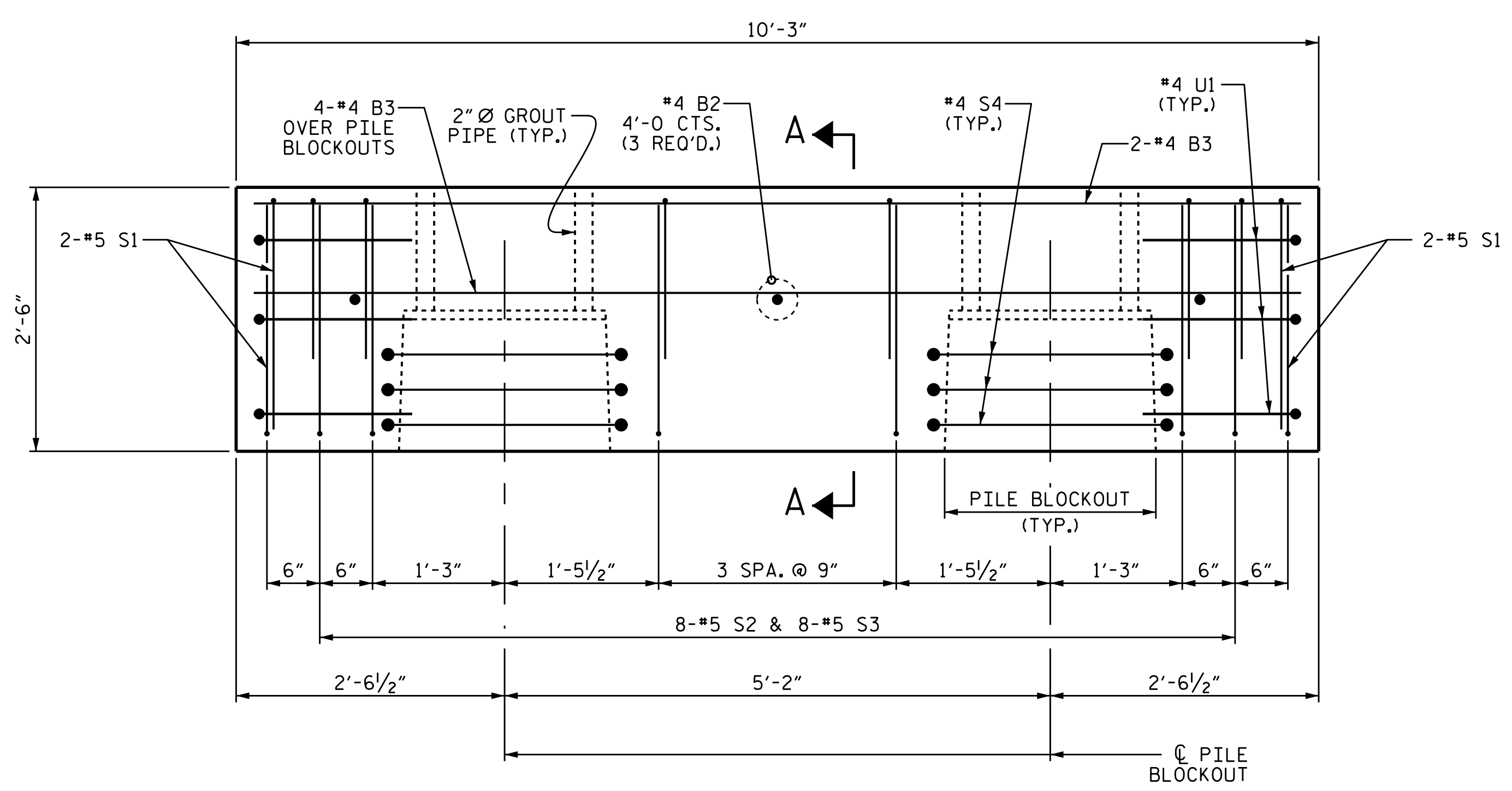
▲ GROUT DISPLACED BY THE 16" PRESTRESSED CONCRETE PILES HAS BEEN DEDUCTED FROM THE GROUT QUANTITY.

| GRADE 270 STRANDS                     |        |
|---------------------------------------|--------|
| AREA ( SQUARE INCHES )                | 0.217  |
| ULTIMATE STRENGTH ( LBS. PER STRAND ) | 58,600 |
| APPLIED PRESTRESS ( LBS. PER STRAND ) | 43,950 |



**PLAN**

(FOR PILE BLOCKOUT DETAILS, SEE SHEET 5 OF 6)



**ELEVATION**

(\*6 D1 DOWELS NOT SHOWN FOR CLARITY)  
FOR SECTION A-A, SEE SHEET 5 OF 6.

PROJECT NO. B-2500AB  
DARE COUNTY  
STATION: 3170+75.00 -L-

SHEET 3 OF 6



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
PRESTRESSED  
PIECE EB1-02

| REVISIONS |     |       |     |     |       | SHEET NO.       |
|-----------|-----|-------|-----|-----|-------|-----------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-25            |
| 1         |     |       | 3   |     |       | TOTAL SHEETS 44 |
| 2         |     |       | 4   |     |       |                 |

ASSEMBLED BY : M.A. ALLEN DATE : 6/15  
CHECKED BY : T.M. GARRISON DATE : 6/15  
DRAWN BY : MAA 7/12  
CHECKED BY : SHS 8/12