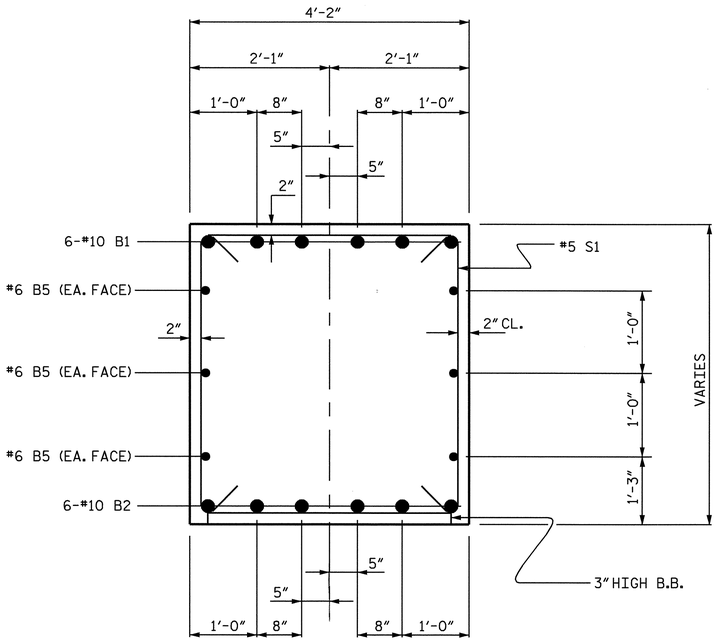
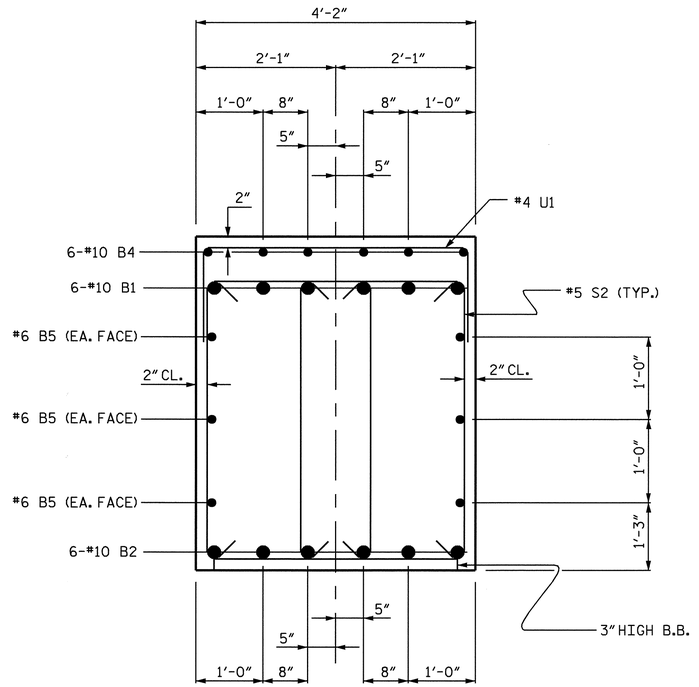
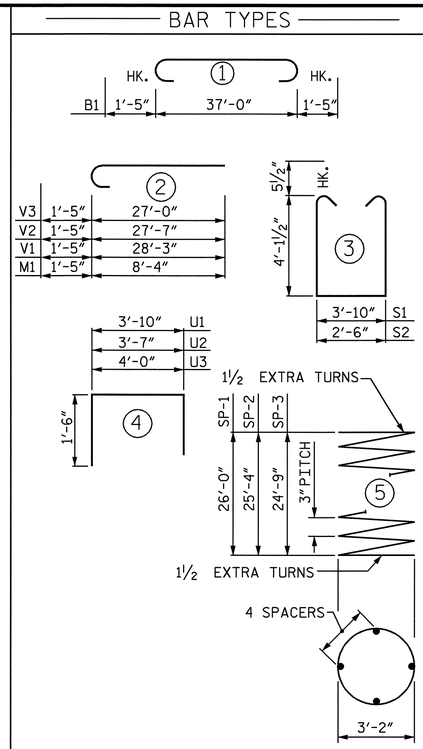



SECTION "A-A"




SECTION "B-B"




## BILL OF MATERIAL

BENT #1

| BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT |
|---|---|---|---|---|---|
| B1 | 6 | #10 | 1 | 39'-10" | 1028 |
| B2 | 6 | #10 | STR | 37'-2" | 960 |
| B3 | 6 | #4 | STR | 2'-10" | 11 |
| B4 | 18 | #4 | STR | 7'-7" | 91 |
| B5 | 6 | #6 | STR | 37'-2" | 335 |
| | | | | | |
| M1 | 36 | #10 | 2 | 9'-9" | 1510 |
| | | | | | |
| S1 | 40 | #5 | 3 | 13'-0" | 542 |
| S2 | 20 | #5 | 3 | 11'-8" | 243 |
| | | | | | |
| T1 | 156 | #6 | STR | 8'-8" | 2031 |
| | | | | | |
| U1 | 33 | #4 | 4 | 6'-10" | 151 |
| U2 | 10 | #4 | 4 | 6'-7" | 44 |
| U3 | 10 | #4 | 4 | 7'-0" | 47 |
| | | | | | |
| V1 | 12 | #10 | 2 | 29'-8" | 1532 |
| V2 | 12 | #10 | 2 | 29'-0" | 1497 |
| V3 | 12 | #10 | 2 | 28'-5" | 1467 |
| | | | | | |
| SP-1 | 1 | ** | 5 | 1050'-10" | 701 |
| SP-2 | 1 | ** | 5 | 1024'-8" | 684 |
| SP-3 | 1 | ** | 5 | 1001'-9" | 669 |

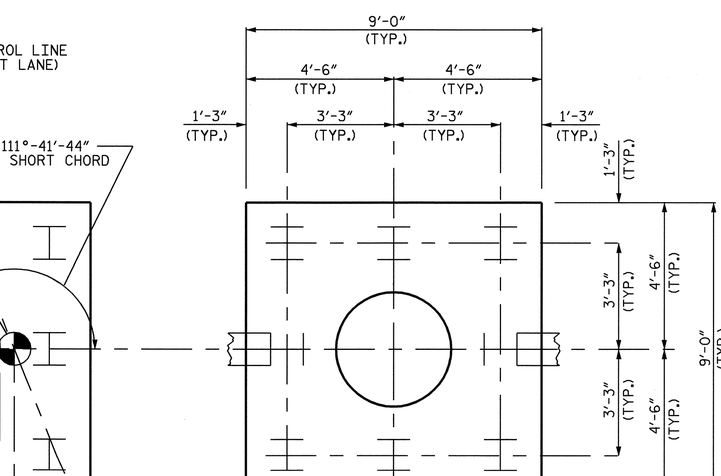
REINFORCING STEEL = 11489 LBS

SPIRAL
REINFORCING STEEL = 2054 LBS

CLASS A CONC. BREAKDOWN
POUR #1 = 29.3 C.Y.
POUR #2 = 26.9 C.Y.
POUR #3 = 27.7 C.Y.

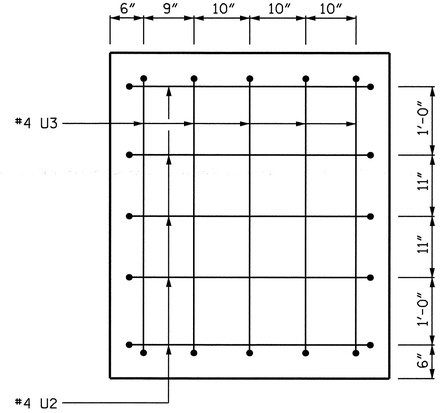
CLASS A CONC. TOTAL = 83.9 C.Y.

HP 12 x 53 STEEL PILES
No. = 24 LIN. FT. = 840




PLAN OF COLUMNS AND FOOTINGS

NOTE: ALL PILES IN FOOTING 2 ARE VERTICAL
ALL PILES IN FOOTING 1 & 3 ARE SIMILAR




END OF CAP DETAIL

** SP-1, SP-2, AND SP-3 SPIRAL REINFORCING STEEL SHALL BE W-20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

PROJECT NO. U-0620
CUMBERLAND COUNTY
STATION: 161+95.29 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

# SUBSTRUCTURE BENT #1 (LEFT LANE)

NORTH CAROLINA PROFESSIONAL SEAL 15825 ENGINEER BRUCE D. KLAPPENBACH
8-4-04

| REVISIONS | | | | | | SHEET NO. |
|---|---|---|---|---|---|---|
| NO. | BY: | DATE: | NO. | BY: | DATE: | S-78 |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 129 |

STR. #2

DRAWN BY : J.B. WILSON DATE : 11/03
CHECKED BY : D.A. GLADDEN DATE : 11/03

03-AUG-2004 12:52
W:\squadl\U0620\Str2and3\jbwilson\Microstation\U-0620_sd_B*_02.dgn
jbwilson