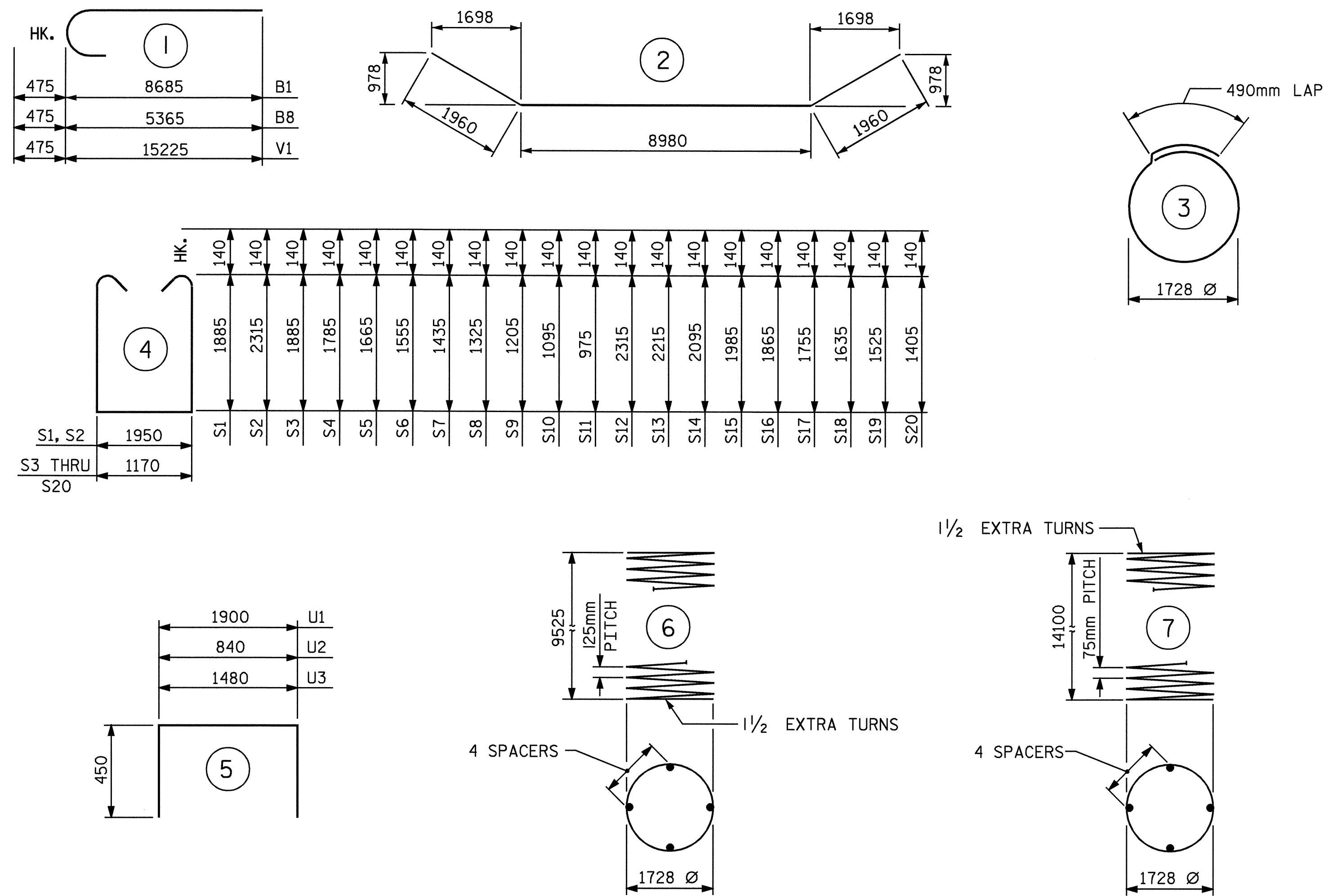


BAR TYPES



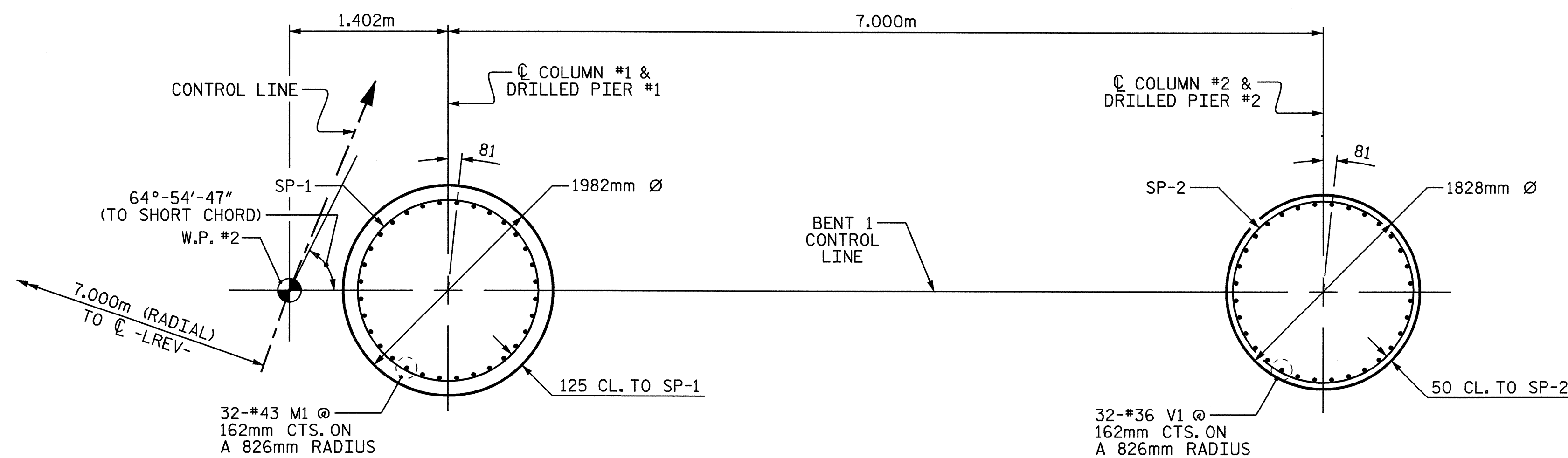
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 1

| BAR NO. | NO. | SIZE | TYPE | LENGTH | WEIGHT | BAR NO.                            | NO. | SIZE | TYPE | LENGTH    | WEIGHT       |
|---------|-----|------|------|--------|--------|------------------------------------|-----|------|------|-----------|--------------|
| B1      | 8   | #36  | 1    | 9160   | 579    | U1                                 | 49  | #13  | 5    | 2800      | 136          |
| B2      | 8   | #36  | 2    | 12900  | 816    | U2                                 | 6   | #13  | 5    | 1740      | 10           |
| B3      | 6   | #19  | STR  | 12400  | 166    | U3                                 | 6   | #13  | 5    | 2380      | 14           |
| B4      | 2   | #19  | STR  | 11880  | 53     |                                    |     |      |      |           |              |
| B5      | 2   | #19  | STR  | 10980  | 49     | V1                                 | 64  | #36  | 1    | 15700     | 7945         |
| B6      | 2   | #19  | STR  | 10060  | 45     |                                    |     |      |      |           |              |
| B7      | 8   | #13  | STR  | 9040   | 72     | REINFORCING STEEL                  |     |      |      |           | kg 20366     |
| B8      | 8   | #36  | 3    | 5840   | 369    | SPIRAL COLUMN REINFORCING STEEL    |     |      |      |           |              |
| B9      | 8   | #13  | STR  | 1740   | 14     |                                    |     |      |      |           |              |
| B10     | 4   | #13  | STR  | 4200   | 17     | SP-1                               | 2   | **   | 6    | 419,020   | 1301         |
| B11     | 4   | #13  | STR  | 1940   | 8      | SP-2                               | 2   | **   | 7    | 1,019,380 | 3164         |
|         |     |      |      |        |        | SPIRAL COLUMN REINFORCING STEEL    |     |      |      |           | kg 4465      |
| M1      | 64  | #43  | STR  | 12800  | 9322   |                                    |     |      |      |           |              |
| S1      | 15  | #16  | 4    | 6000   | 140    | CLASS A CONCRETE BREAKDOWN         |     |      |      |           |              |
| S2      | 10  | #16  | 4    | 6860   | 106    | POUR #2 (COLUMNS)                  |     |      |      |           | C.M. 72.0    |
| S3      | 2   | #16  | 4    | 5220   | 16     | POUR #3 (CAP)                      |     |      |      |           | C.M. 54.9    |
| S4      | 2   | #16  | 4    | 5020   | 16     | TOTAL CLASS A CONCRETE             |     |      |      |           | C.M. 126.9   |
| S5      | 2   | #16  | 4    | 4780   | 15     |                                    |     |      |      |           |              |
| S6      | 2   | #16  | 4    | 4560   | 14     |                                    |     |      |      |           |              |
| S7      | 2   | #16  | 4    | 4320   | 13     | DRILLED PIER CONCRETE BREAKDOWN    |     |      |      |           |              |
| S8      | 2   | #16  | 4    | 4100   | 13     | POUR #1 (DRILLED PIERS)            |     |      |      |           | C.M. 59.7    |
| S9      | 2   | #16  | 4    | 3860   | 12     |                                    |     |      |      |           |              |
| S10     | 2   | #16  | 4    | 3640   | 11     | 1982mm Ø DRILLED PIERS NOT IN SOIL |     |      |      |           | METERS 6.0   |
| S11     | 2   | #16  | 4    | 3400   | 11     |                                    |     |      |      |           |              |
| S12     | 2   | #16  | 4    | 6080   | 19     |                                    |     |      |      |           |              |
| S13     | 2   | #16  | 4    | 5880   | 18     | 1982mm Ø DRILLED PIERS IN SOIL     |     |      |      |           | METERS 13.4  |
| S14     | 2   | #16  | 4    | 5640   | 18     |                                    |     |      |      |           |              |
| S15     | 2   | #16  | 4    | 5420   | 17     |                                    |     |      |      |           |              |
| S16     | 2   | #16  | 4    | 5180   | 16     | SPT TESTING                        |     |      |      |           | EA. 2        |
| S17     | 2   | #16  | 4    | 4960   | 15     |                                    |     |      |      |           |              |
| S18     | 2   | #16  | 4    | 4720   | 15     | SID INSPECTION                     |     |      |      |           | EA. 1        |
| S19     | 2   | #16  | 4    | 4500   | 14     |                                    |     |      |      |           |              |
| S20     | 2   | #16  | 4    | 4260   | 13     | CROSSHOLE SONIC LOGGING            |     |      |      |           | EA. 1        |
| S21     | 26  | #16  | 3    | 5920   | 239    | CSL TUBES                          |     |      |      |           | METERS 125.1 |

\*\* THE "SP" SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.



PLAN OF DRILLED PIER  
REINFORCING STEEL & DIMENSIONS  
ARE TYPICAL FOR ALL DRILLED PIERS

PLAN OF COLUMN  
REINFORCING STEEL & DIMENSIONS  
ARE TYPICAL FOR ALL DRILLED PIERS

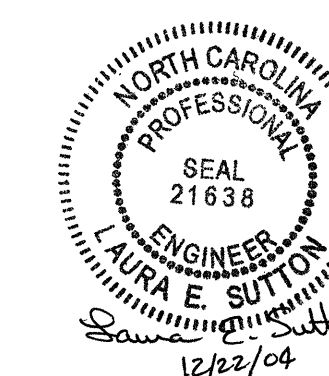
PLAN OF COLUMNS AND DRILLED PIERS

PROJECT NO. R-0977A  
CHEROKEE COUNTY  
STATION: 68+58.000-LREV-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

SUBSTRUCTURE  
BENT 1



| REVISIONS |     |       |     |     |       | SHEET NO.        |  |
|-----------|-----|-------|-----|-----|-------|------------------|--|
| NO.       | BY: | DATE: | NO. | BY: | DATE: | S-214            |  |
| 1         |     |       | 3   |     |       | TOTAL SHEETS 230 |  |
| 2         |     |       | 4   |     |       |                  |  |

DRAWN BY : M.K. BEARD DATE : 10/21/04  
CHECKED BY : L.E. SUTTON DATE : 12/19/04

22-DEC-2004 10:53  
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lsutton

STR. #5