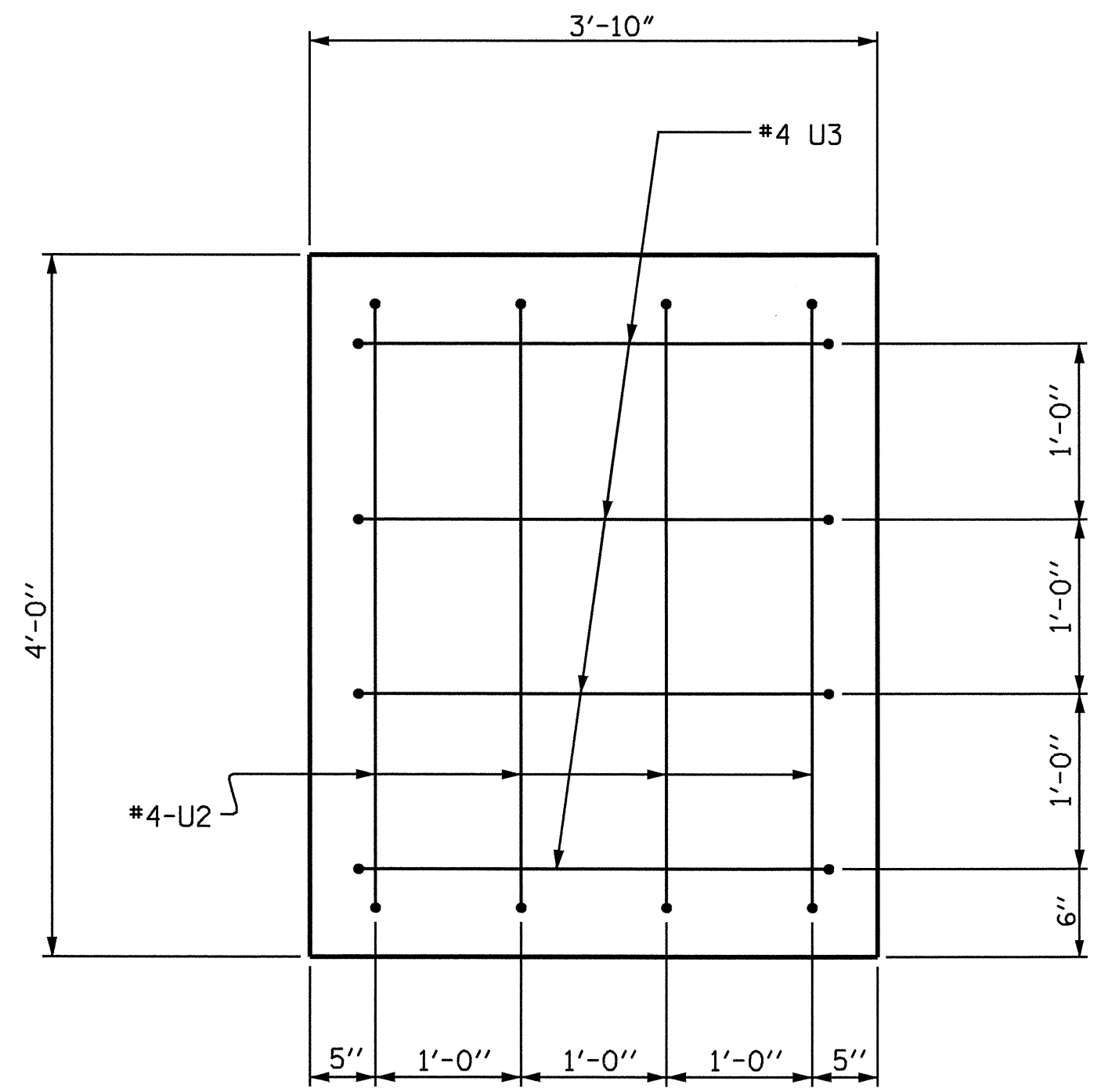
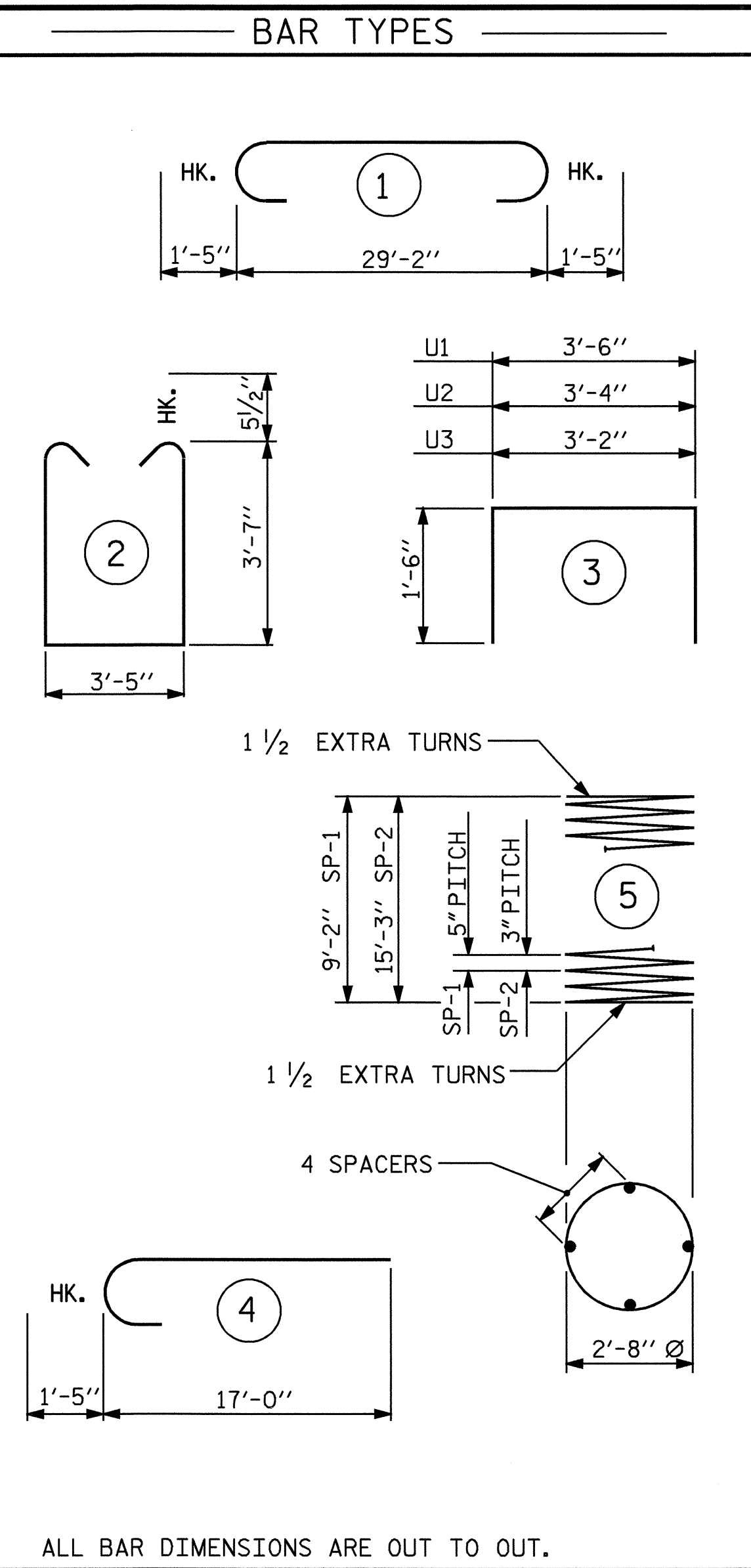


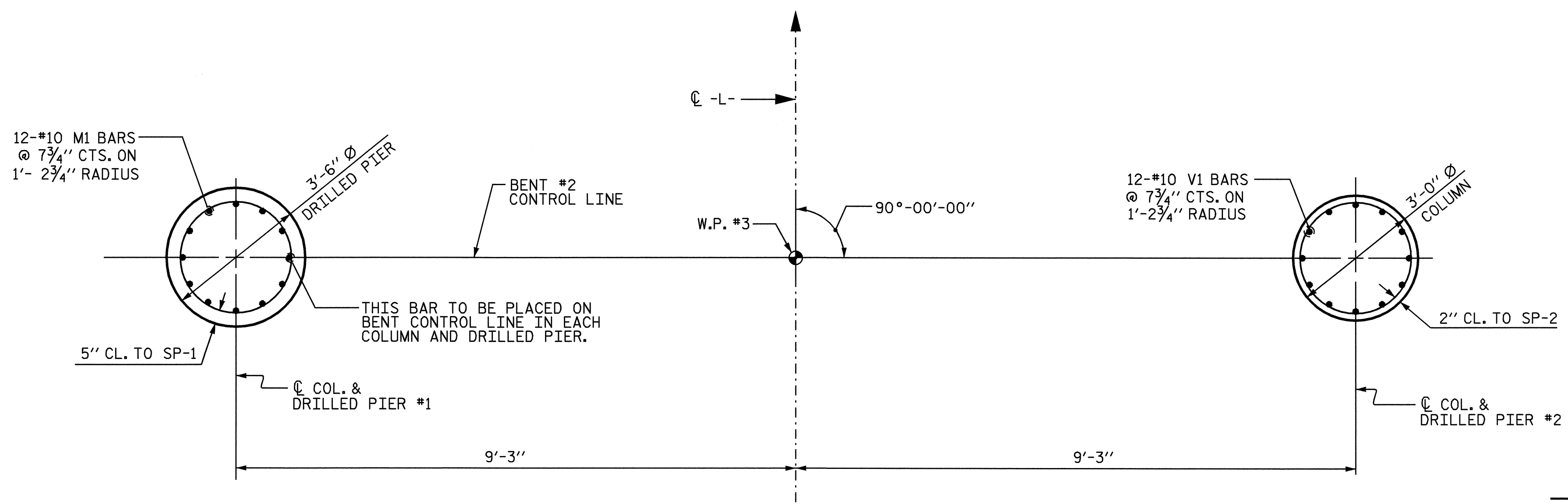
SECTION A-A



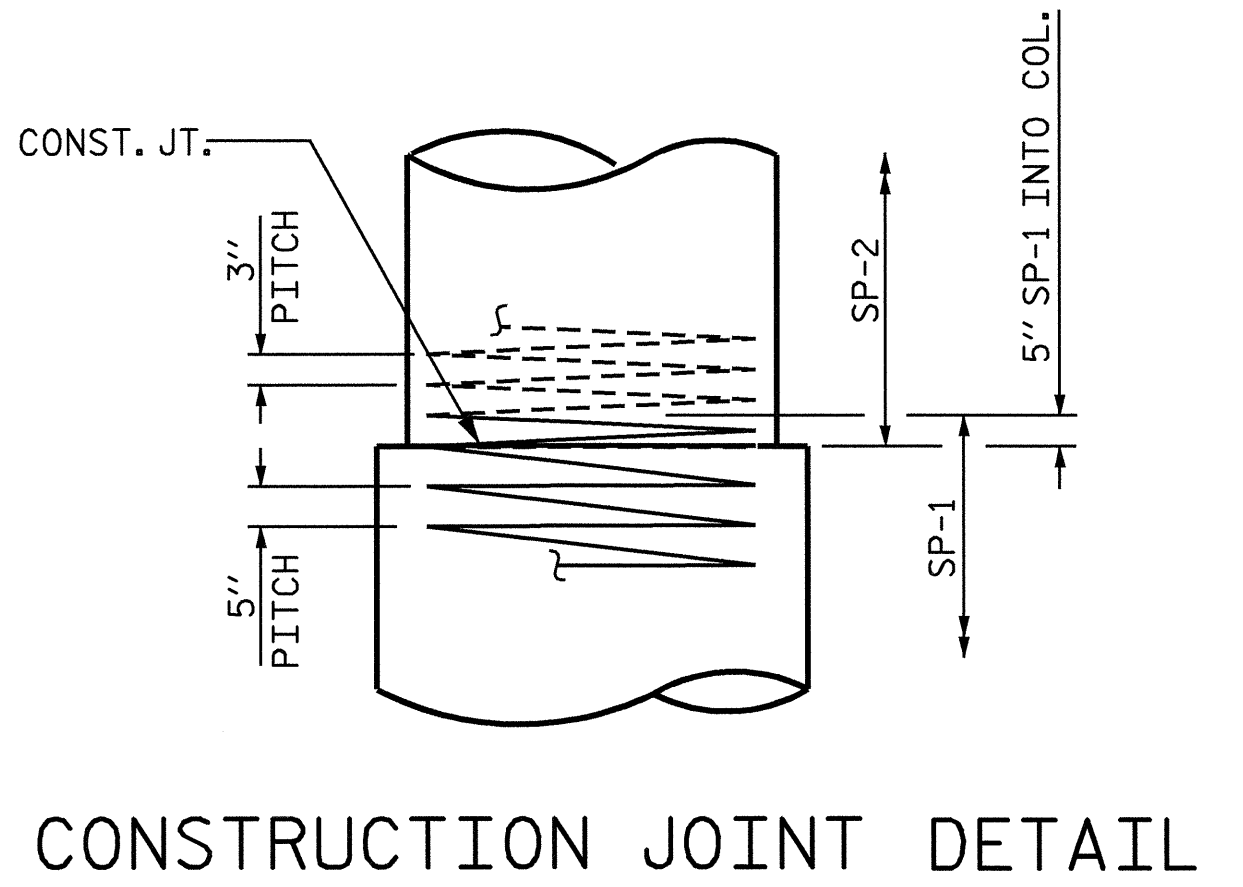
VIEW X-X  
(TYP. EACH END)



| BILL OF MATERIAL  |     |      |      |         |            |
|---|-----|------|------|---------|------------|
| BENT #2   |     |      |      |         |            |
| BAR   | NO. | SIZE | TYPE | LENGTH  | WEIGHT     |
| B1  | 6   | #10  | 1    | 32-0    | 826        |
| B2  | 6   | #10  | STR  | 29-2    | 753        |
| B3  | 6   | #6   | STR  | 29-2    | 263        |
| S1  | 41  | #5   | 2    | 11-8    | 499        |
| U1  | 28  | #4   | 3    | 6-6     | 122        |
| U2  | 8   | #4   | 3    | 6-4     | 34         |
| U3  | 8   | #4   | 3    | 6-4     | 34         |
| M1  | 24  | #10  | STR  | 18-1    | 1868       |
| V1  | 24  | #10  | 4    | 18-5    | 1902       |
| REINFORCING STEEL   |     |      |      |         | LBS. 6,301 |
| SPIRAL COLUMN   |     |      |      |         |            |
| SP1   | 2   | *    | 5    | 206-0   | 430        |
| SP2   | 2   | **   | 5    | 528-0   | 705        |
| TOTAL SPIRAL REINFORCING STEEL  |     |      |      |         | LBS. 1135  |
| CLASS A CONCRETE BREAKDOWN  |     |      |      |         |            |
| POUR #2 (COLUMNS)   |     |      |      | C.Y.    | 8.6        |
| POUR #3 (CAP)   |     |      |      | C.Y.    | 17.0       |
| TOTAL   |     |      |      | C.Y.    | 25.6       |
| DRILLED PIERS   |     |      |      |         |            |
| DRILLED PIER CONCRETE BREAKDOWN   |     |      |      |         |            |
| POUR #1 (DRILLED PIER)  |     |      |      | C.Y.    | 6.1        |
| 3'-6" Ø DRILLED PIER NOT IN SOIL  |     |      |      | LIN. FT | 16.0       |
| 3'-6" Ø DRILLED PIER IN SOIL  |     |      |      | LIN. FT | 3.0        |
| 3'-6" Ø PERMANENT STEEL CASING  |     |      |      | LIN. FT | 6.0        |
| * THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR. |     |      |      |         |            |
| * THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR. |     |      |      |         |            |



PLAN OF DRILLED PIERS & COLUMNS  
(COLUMN & DRILLED PIER INFORMATION IS TYPICAL AT EACH LOCATION)

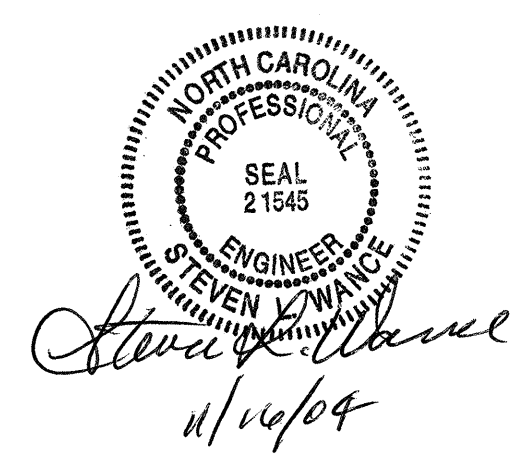


CONSTRUCTION JOINT DETAIL

PROJECT NO. B-3350  
IREDELL COUNTY  
 STATION: 17+33.50 -L-  
 SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUBSTRUCTURE  
 BENT #2**



DRAWN BY: SWANc@PE DATE: 06/03  
 CHECKED BY: N.Q. TRAN DATE: 04/04

| REVISIONS |     |       |     |     |       | SHEET NO.       |
|-----------|-----|-------|-----|-----|-------|-----------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: |                 |
| 1         |     |       | 3   |     |       | 5-25            |
| 2         |     |       | 4   |     |       | TOTAL SHEETS 35 |