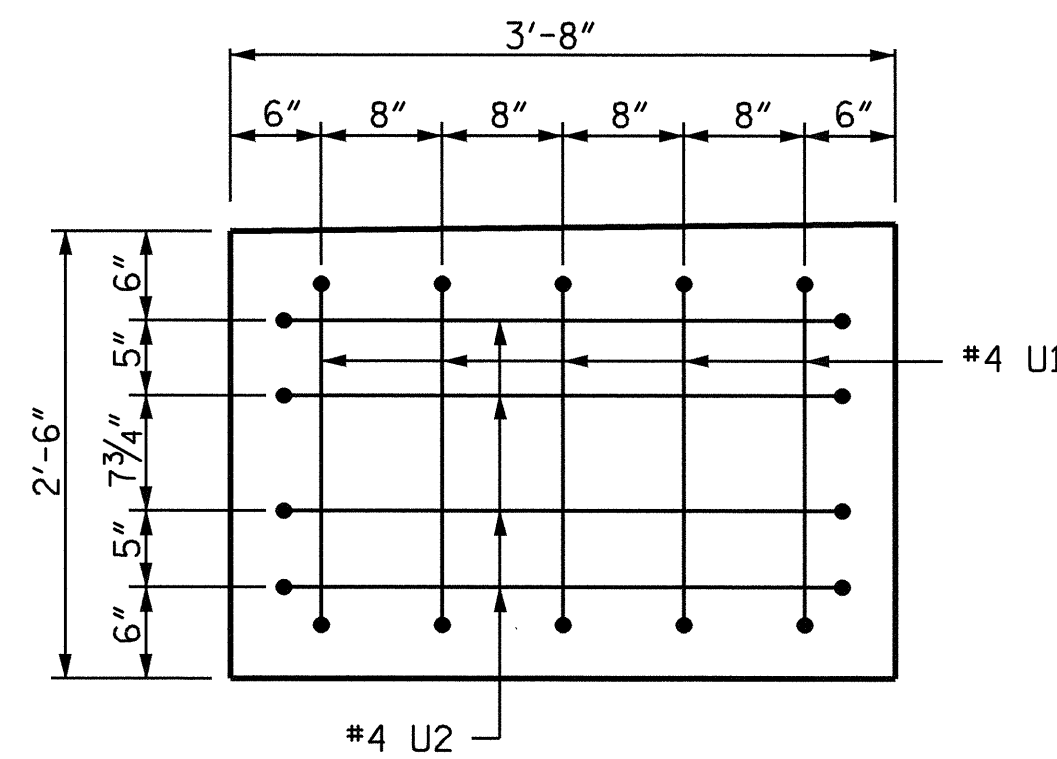
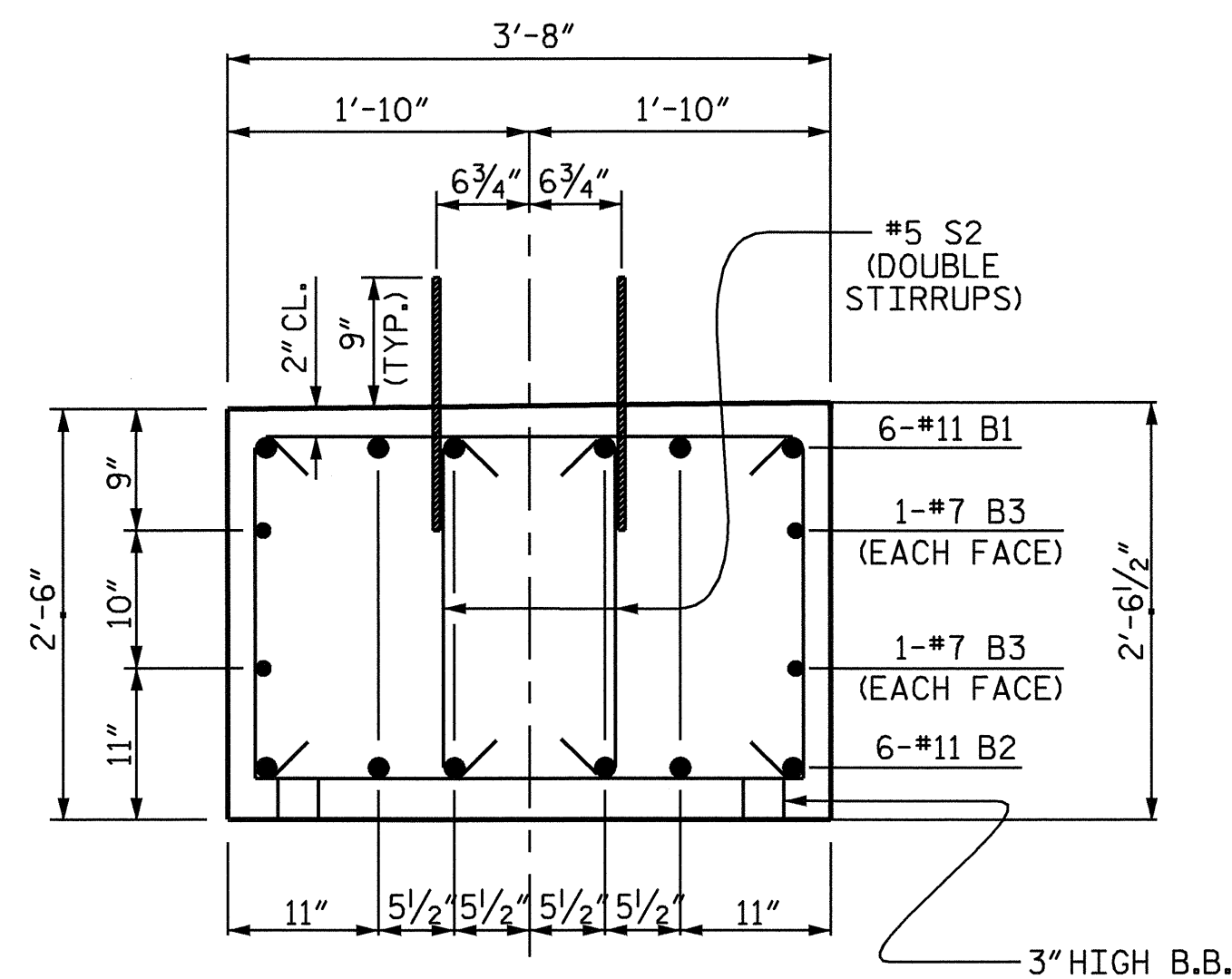


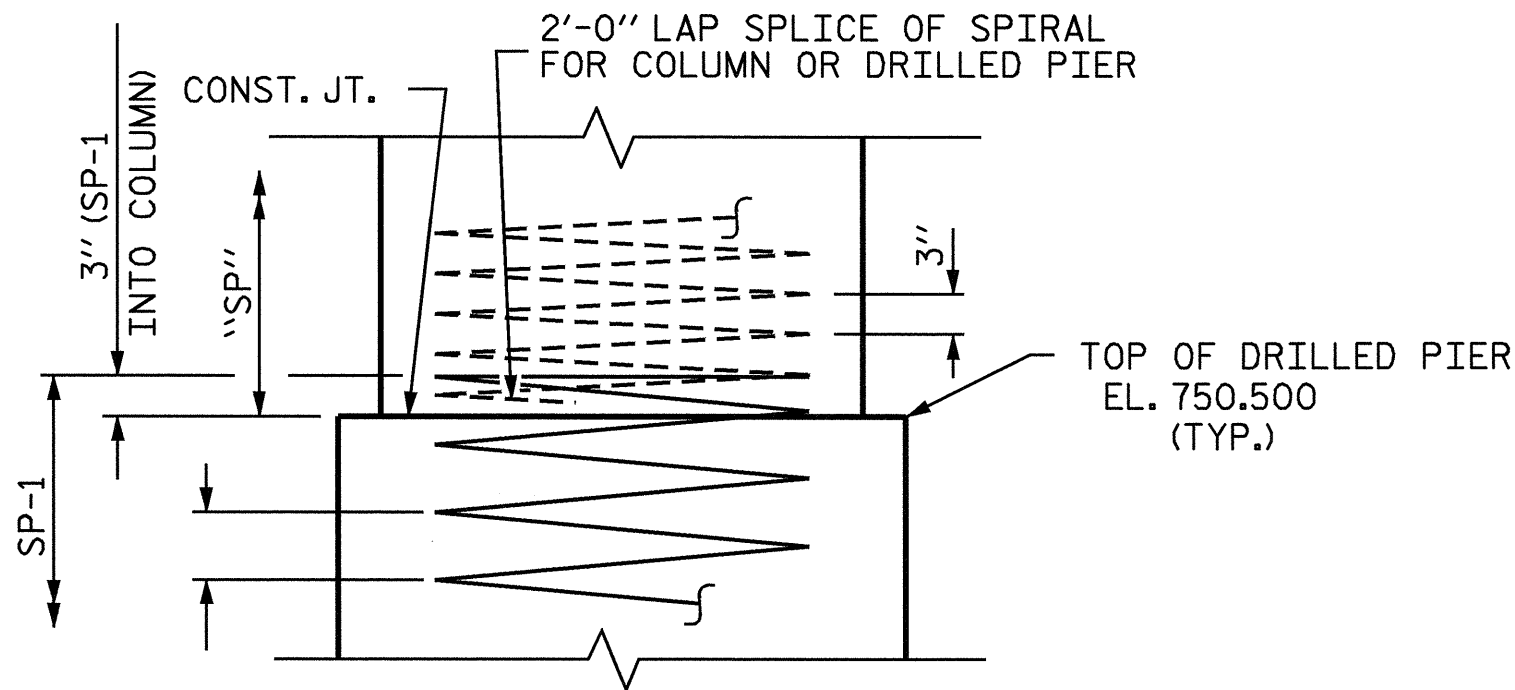
SECTION A-A



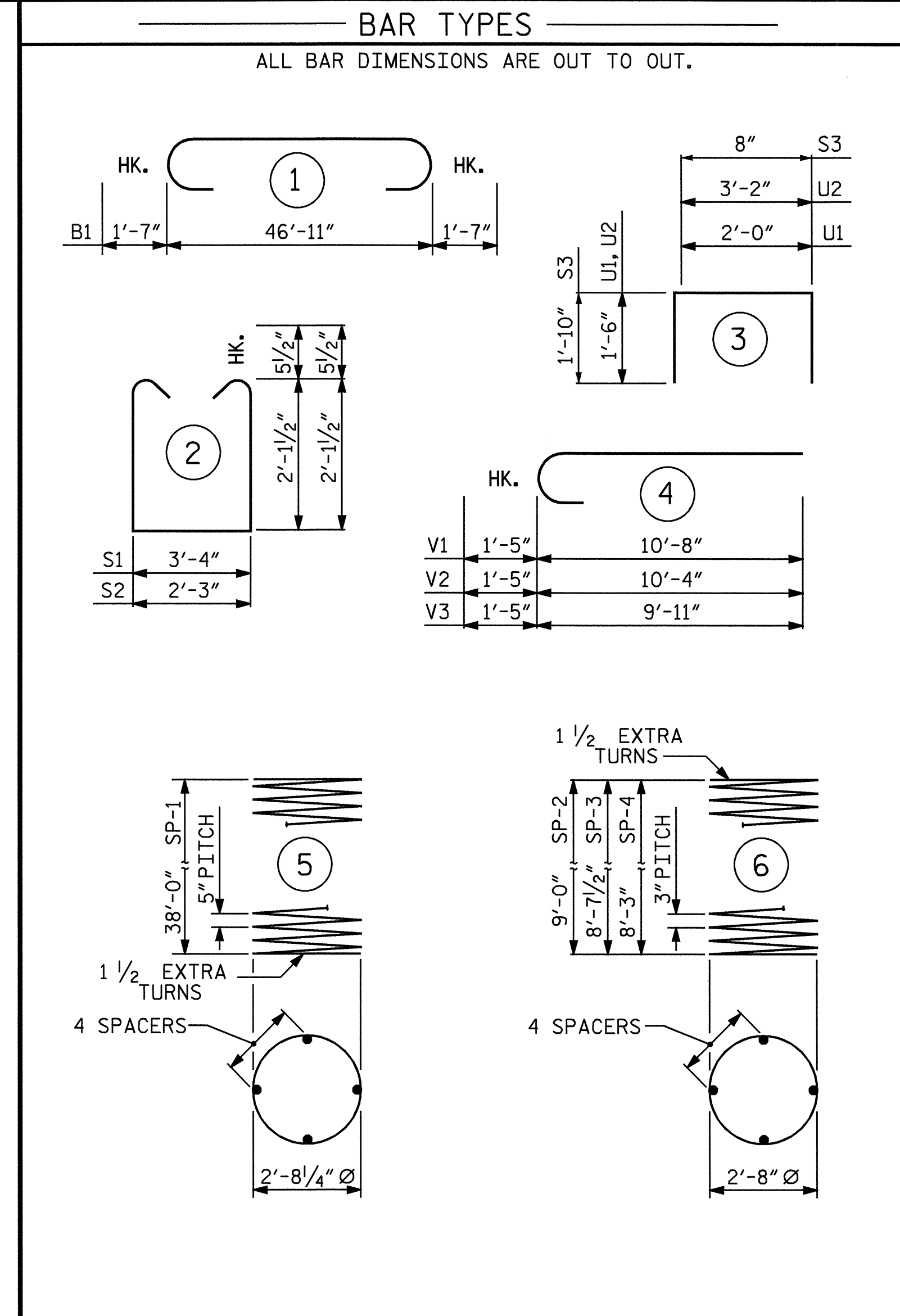
SECTION X-X
(REINFORCING STEEL SAME BOTH ENDS)



SECTION B-B

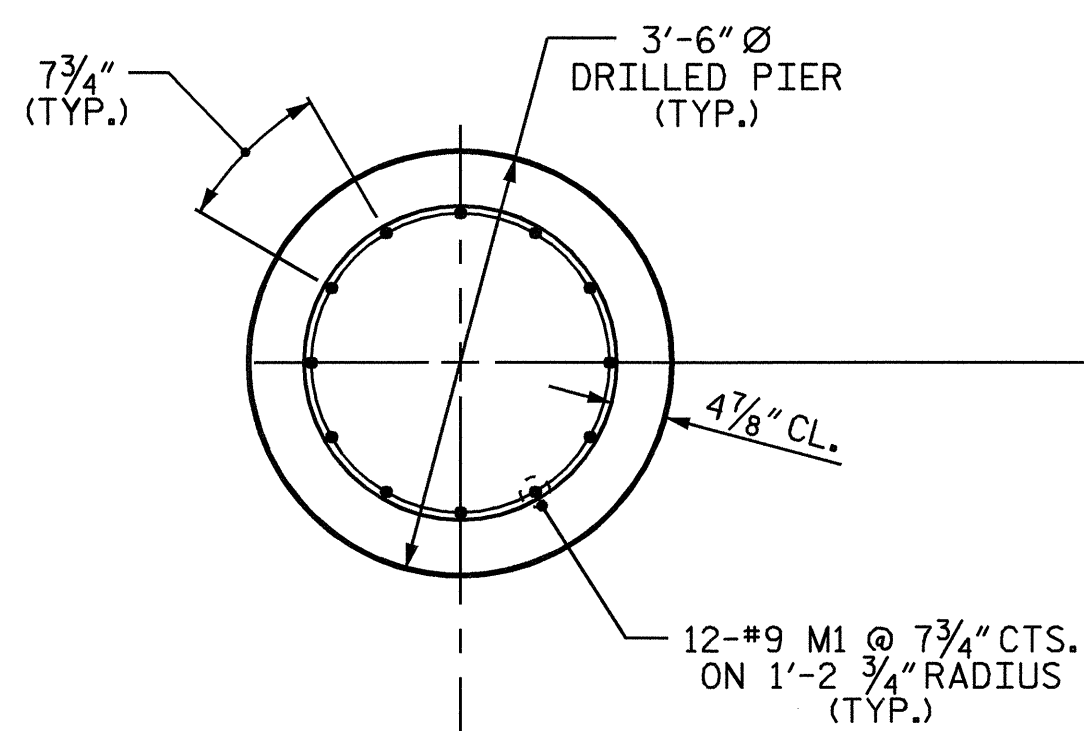


CONSTRUCTION JOINT DETAIL

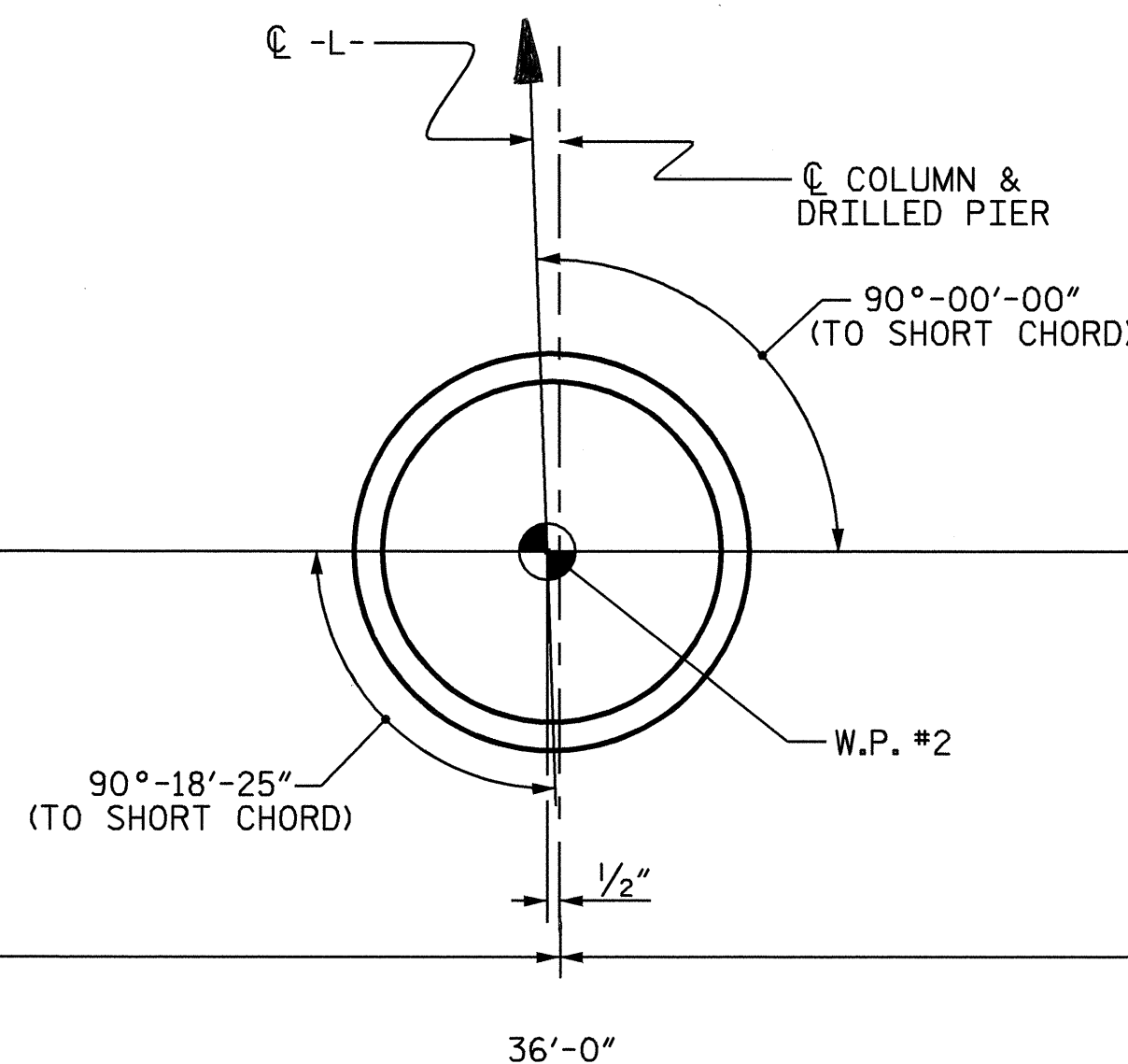


* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.
 ** THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

BILL OF MATERIAL					
BENT NO.1					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#11	1	50'-1"	1597
B2	6	#11	STR	47'-1"	1501
B3	4	#7	STR	47'-1"	385
B4	4	#4	STR	3'-4"	9
M1	36	#10	STR	47'-4"	7332
S1	44	#5	2	8'-6"	390
S2	16	#5	2	7'-5"	124
S3	8	#4	2	4'-4"	23
U1	10	#4	3	5'-0"	33
U2	8	#4	3	6'-2"	33
V1	12	#10	4	12'-1"	624
V2	12	#10	4	11'-9"	607
V3	12	#10	4	11'-4"	585
TOTAL REINFORCING STEEL					13243 (LBS)
SPIRAL REINFORCING STEEL (LBS)					
SP-1	3	*	5	782'-8"	2449
SP-2	1	**	6	313'-11"	210
SP-3	1	**	6	301'-4"	201
SP-4	1	**	6	288'-9"	193
TOTAL =					3053 (LBS.)
CLASS A CONCRETE (C.Y.)					
POUR #2 (COLUMNS)				=	6.6 C.Y.
POUR #3 (CAP)				=	16.2 C.Y.
POUR #4 (LAT. GUIDE)				=	0.1 C.Y.
TOTAL				=	22.9 C.Y.
DRILLED PIERS					
DRILLED PIER CONCRETE (C.Y.)				=	41.2 C.Y.
POUR #1 (DRILLED PIERS)				=	97.5
3'-6" Ø DRILLED PIERS IN SOIL (LIN. FT.)				=	18.0
3'-6" Ø DRILLED PIERS NOT IN SOIL (LIN. FT.)				=	18.0
SPT TESTING = 1 EA.					
CROSSHOLE SONIC LOGGING = 1 EA.					
CSL TUBES (LIN. FT.) = 492					
PERMANENT STEEL CASING FOR 3'-6" Ø DRILLED PIERS (LIN. FT.) = 31.5					

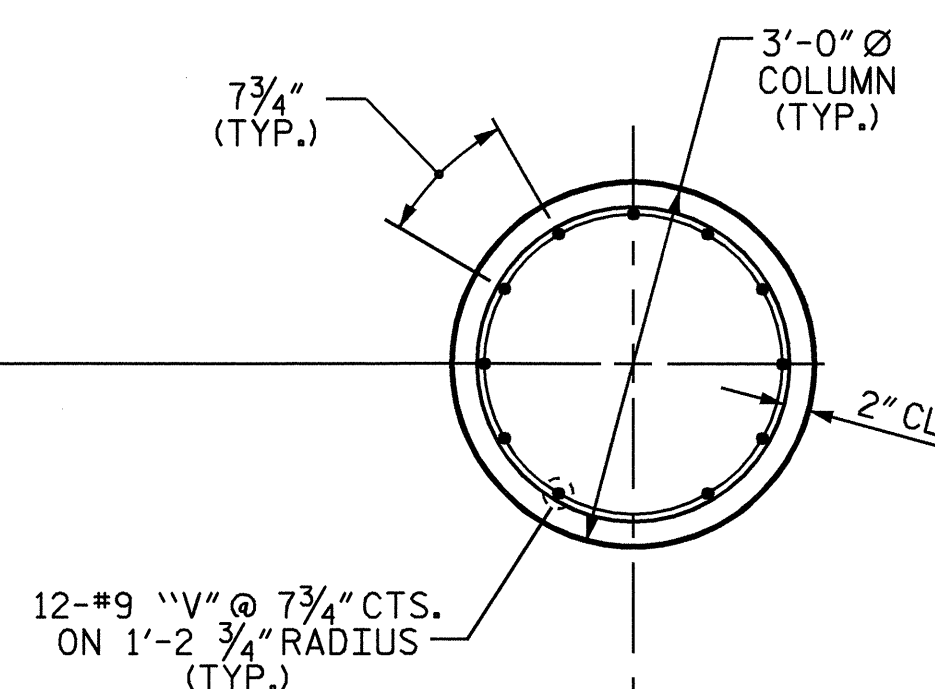


PLAN OF DRILLED PIERS



PLAN OF COLUMNS & DRILLED PIERS

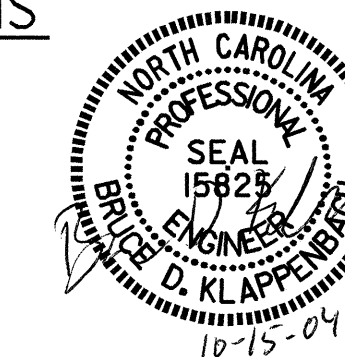
(REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL COLUMNS AND DRILLED PIERS)



PLAN OF COLUMNS

DRAWN BY: J.B. WILSON DATE: 9/21/04
 CHECKED BY: G.M. PATTERSON DATE: 9/04

14-OCT-2004 16:54
 W:\squad1\B3454\jwilson\Microstation\B-3454_sd.B*.01.dgn
 bklaappenbach



PROJECT NO. B-3454
 FORSYTH COUNTY
 STATION: 20+93.00 -L-
 SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE					
BENT #1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-17
 TOTAL SHEETS 27