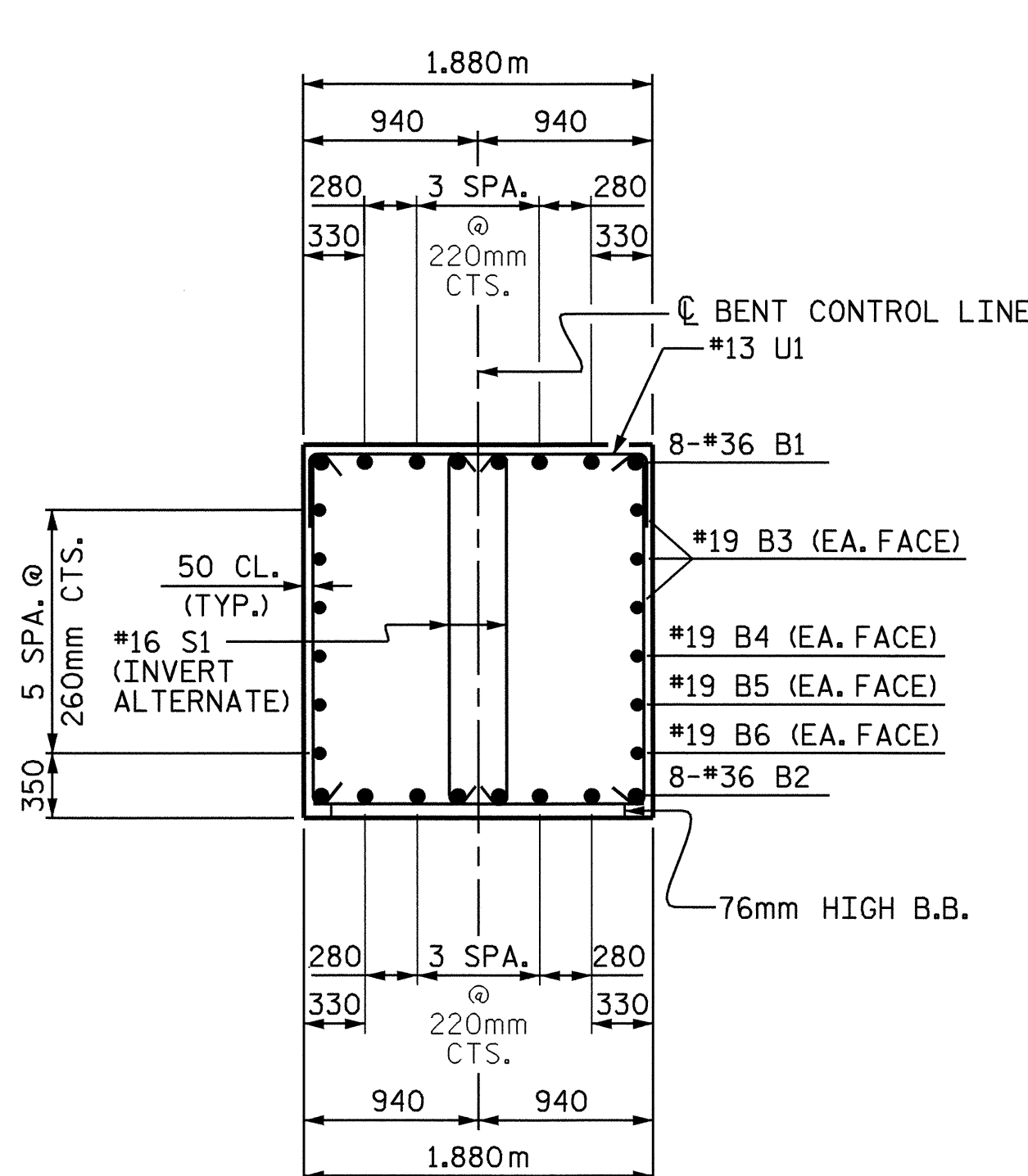
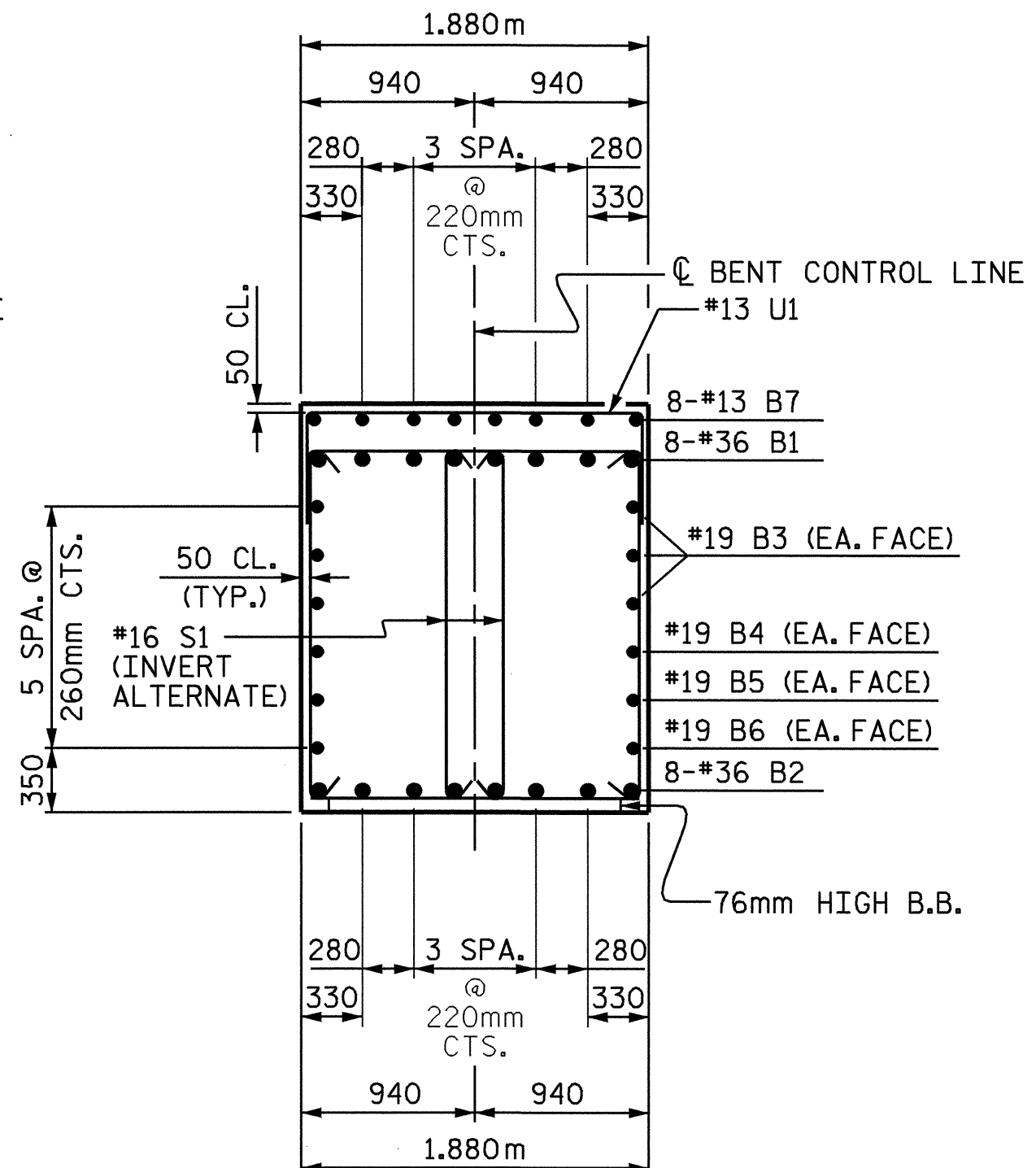


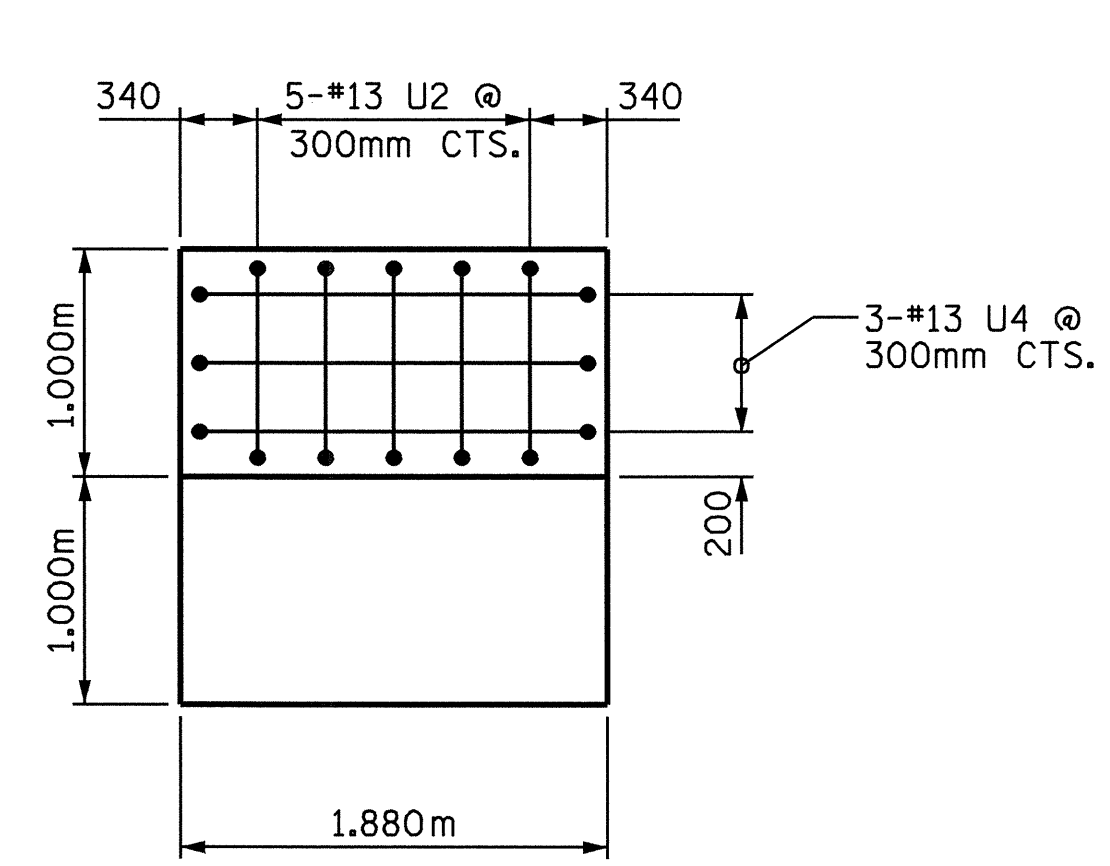
PLAN OF COLUMNS & DRILLED PIERS



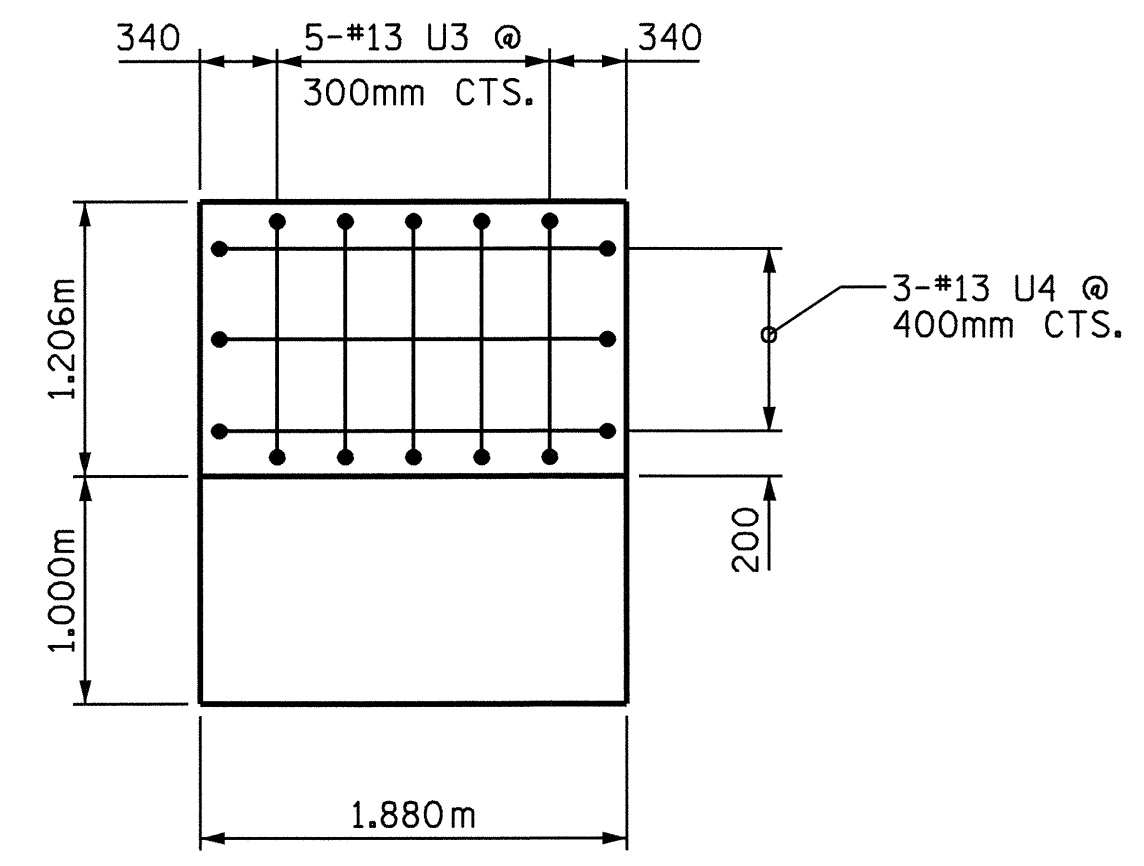
SECTION A-A



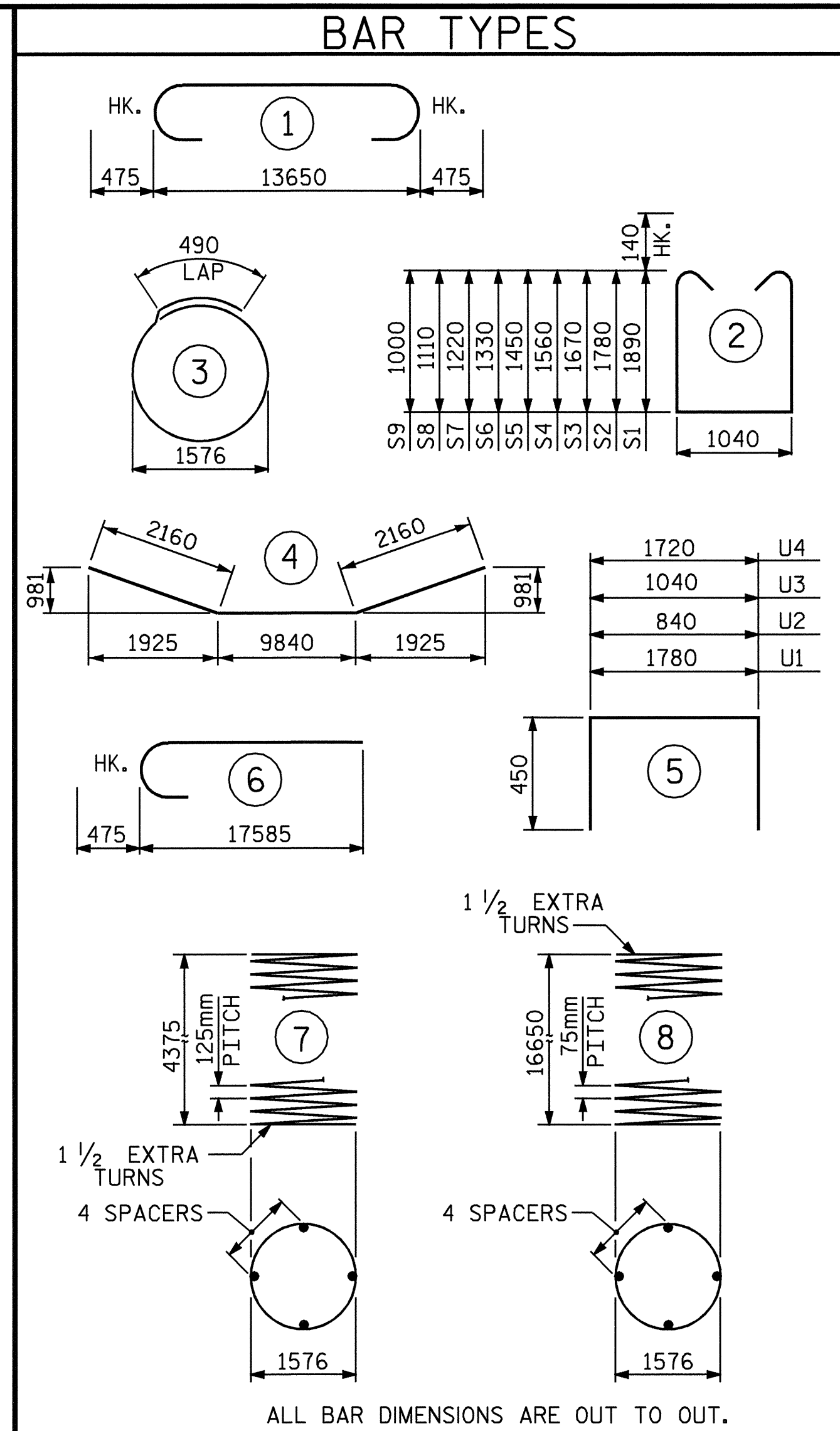
SECTION B-B



VIEW X-X



VIEW Y-Y



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL BENT 1

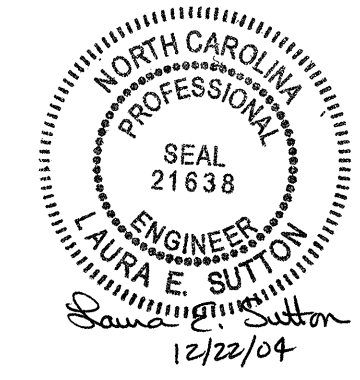
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	36	1	14600	924
B2	8	36	4	14160	896
B3	6	19	STR	13700	184
B4	2	19	STR	13060	58
B5	2	19	STR	12040	54
B6	2	19	STR	11020	49
B7	8	13	STR	5540	44
M1	48	43	STR	7660	4184
S1	48	16	2	5100	380
S2	4	16	2	4880	30
S3	4	16	2	4660	29
S4	4	16	2	4440	28
S5	4	16	2	4220	26
S6	4	16	2	3980	25
S7	4	16	2	3760	23
S8	4	16	2	3540	22
S9	4	16	2	3320	21
S10	20	16	3	5440	169
U1	31	13	5	2680	83
U2	5	13	5	1740	9
U3	5	13	5	1940	10
U4	6	13	5	2620	16
V1	48	36	6	18060	6854
REINFORCING STEEL					kg 14118
SPIRAL COLUMN REINFORCING STEEL					
SP-1	2	**	7	179200	556
SP-2	2	**	8	1095560	3401
TOTAL SPIRAL COLUMN REINFORCING STEEL					kg 3957
CLASS A CONCRETE BREAKDOWN					
POUR #2 (COLUMNS)			C.M.	73.1	
POUR #3 (BENT CAP)			C.M.	50.4	
TOTAL			C.M.	123.5	
DRILLED PIERS					
DRILLED PIER CONCRETE			C.M.	23.8	
POUR #1 (DRILLED PIERS)					
1828mm Ø DRILLED PIERS IN SOIL			METERS	1.1	
1828mm Ø DRILLED PIERS NOT IN SOIL			METERS	8.0	
CROSSHOLE SONIC LOGGING			EA.	1	
CSL TUBES			METERS	63.3	

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

PROJECT NO. R-0977A
 CHEROKEE COUNTY
 STATION: 41+19.524-LREV-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 BENT 1



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-159
1			3			TOTAL SHEETS 230
2			4			

DRAWN BY: A. K. PATEL DATE: 10/08/04
 CHECKED BY: J. D. HAWK DATE: 10/18/04

21-DEC-2004 07:22
 W:\SquadL\R0977A\str4\jhawk\R0977A.sd.B*.04.dgn
 lsutton

STR. #4