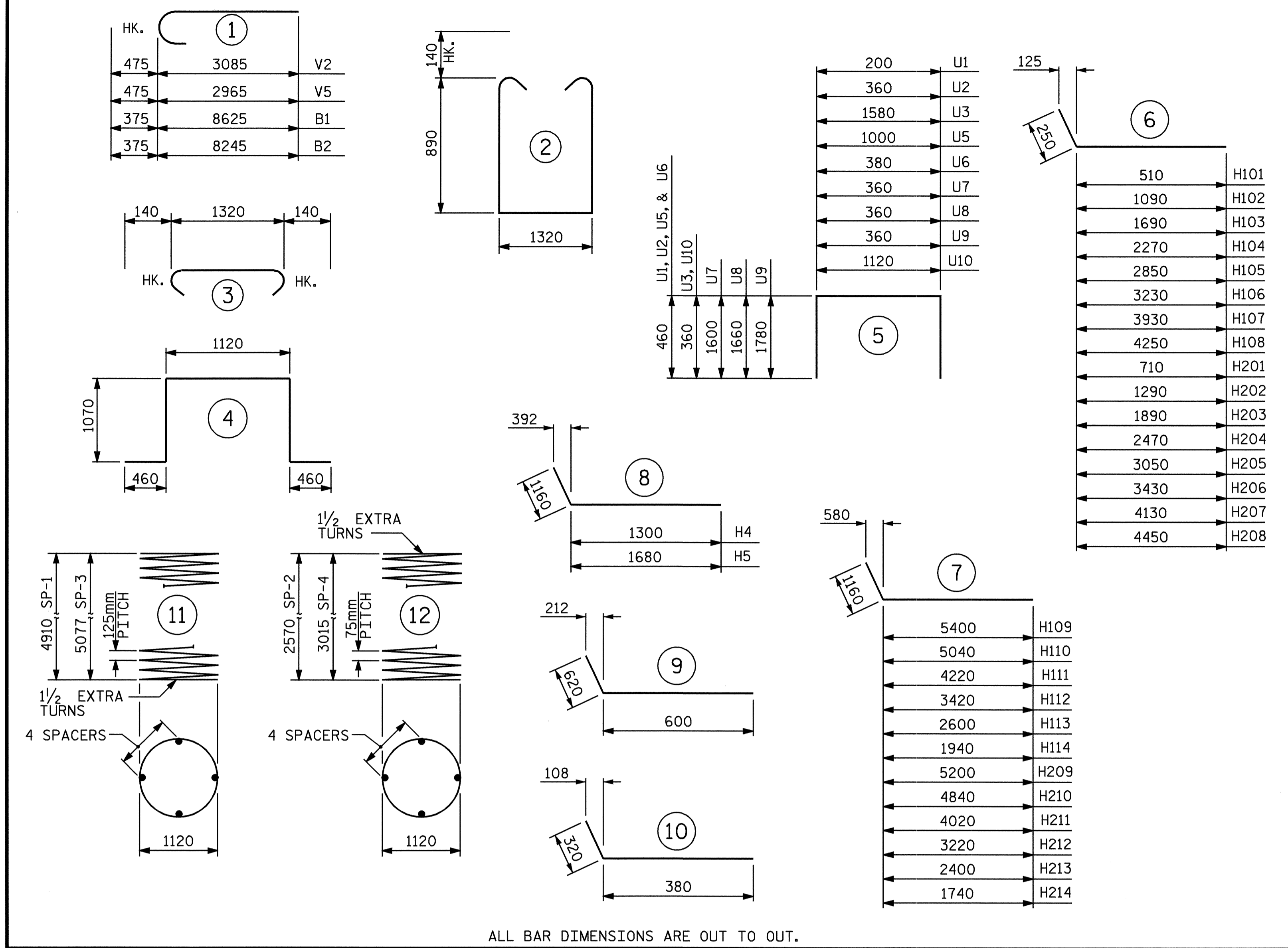


BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

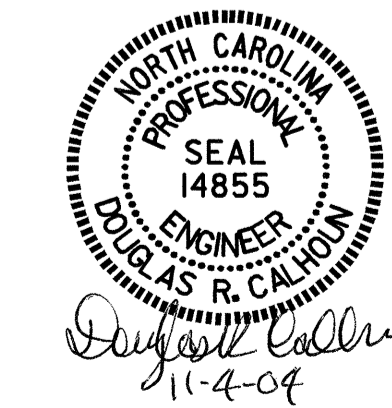
BILL OF MATERIAL

END BENT 2

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	LENGTH	WEIGHT			
B1	14	29	1	9000	638	M1	42	36	STR	8280	2750	SP-1	3	***	11	128740	599
B2	14	29	1	8620	611	M2	14	36	STR	8460	937	SP-2	3	**	12	113220	338
B3	8	16	STR	7780	97							SP-3	1	***	11	132960	206
B4	12	16	STR	7820	146	S1	34	16	2	3380	178	SP-4	1	**	12	132000	131
B5	12	29	STR	8440	512	S2	34	16	3	1600	84						
D1	71	19	STR	600	95	U1	40	13	5	1120	45	SPIRAL COLUMN					
														REINFORCING STEEL			1274 kg
H1	18	22	STR	13420	735	U3	36	16	5	2300	129	CLASS A CONCRETE BREAKDOWN					
H2	9	16	9	1220	17	U4	67	19	4	4180	626	POUR 2 (SHEETPILE CAP)			11.0 m ³		
H3	9	16	10	700	10	U5	4	13	5	1920	8	POUR 3 (RETAINING WALL, COLUMNS, & WINGS)			31.7 m ³		
H4	10	22	8	2460	75	U6	7	13	5	1300	9	POUR 4 (CAP & WINGS)			22.0 m ³		
H5	10	22	8	2840	86	U7	4	16	5	3560	22	POUR 5 (BACKWALL & WINGS)			4.7 m ³		
H101	1	16	6	760	1	U8	4	16	5	3680	23	POUR 6 (LATERAL GUIDES)			0.1 m ³		
H102	1	16	6	1340	2	U9	2	16	5	3920	12	TOTAL CLASS A CONCRETE			69.5 m ³		
H103	1	16	6	1940	3	U10	36	16	5	1840	103	1220mm Ø DRILLED PIERS					
H104	1	16	6	2520	4	V1	80	16	STR	1480	184	DRILLED PIER CONCRETE					
H105	1	16	6	3100	5	V2	42	36	1	3560	1182	POUR 1 (DRILLED PIERS)			22.2 m ³		
H106	1	16	6	3480	5	V3	12	22	STR	2380	87	1220mm Ø DRILLED PIER IN SOIL :			10.0m		
H107	1	16	6	4180	6	V4	86	16	STR	2380	318	1220mm Ø DRILLED PIER NOT IN SOIL :			9.0m		
H108	2	16	6	4500	14	V5	14	36	1	3440	381	PERMANENT STEEL CASING					
H109	4	22	7	6560	80	V6	2	16	STR	1680	5	FOR 1220mm Ø DRILLED PIER:			9.0m		
H110	1	22	7	6200	19	V7	2	16	STR	1880	6	CSL TUBES FOR 1220mm Ø DRILLED PIER:			88.1m		
H111	1	22	7	5380	16	V8	12	16	STR	2080	39	460mm STEEL SHEET PILES:			27.0 m ²		
H112	1	22	7	4580	14	V9	2	16	STR	2280	7	*** THE "SP" SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.					
H113	1	22	7	3760	11	V10	2	16	STR	2480	8	*** THE "SP" SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.					
H114	1	22	7	3100	9	V11	2	16	STR	2680	8	REINFORCING STEEL			10928 kg		
H201	1	16	6	960	1	V12	2	16	STR	2880	9						
H202	1	16	6	1540	2	V13	2	16	STR	3080	10						
H203	1	16	6	2140	3	V14	2	16	STR	560	2						
H204	1	16	6	2720	4	V15	2	16	STR	700	2						
H205	1	16	6	3300	5	V16	2	16	STR	820	3						
H206	1	16	6	3680	6	V17	2	16	STR	960	3						
H207	1	16	6	4380	7	V18	2	16	STR	4160	13						
H208	2	16	6	4700	15	V19	2	16	STR	4360	14						
H209	4	22	7	6360	77	V20	2	16	STR	4520	14						
H210	1	22	7	6000	18	V21	10	16	STR	4600	50						
H211	1	22	7	5180	16	V22	4	16	STR	1900	12						
H212	1	22	7	4380	13	V23	4	22	STR	2980	36						
H213	1	22	7	3560	11	V24	6	16	STR	4380	41						
H214	1	22	7	2900	9												
K1	12	13	STR	7700	92												
K2	4	13	STR	1720	7												

DRAWN BY : K. MCCAULEY DATE : 7/13/04
 CHECKED BY : K. P. SEDAT DATE : 7/18/04

04-NOV-2004 15:32
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 TAHarr1s



PROJECT NO. B-2583
 MADISON COUNTY
 STATION: 12+21.750 -L-

SHEET 6 OF 6

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT 2

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-51	
1			3			TOTAL SHEETS	112
2			4				