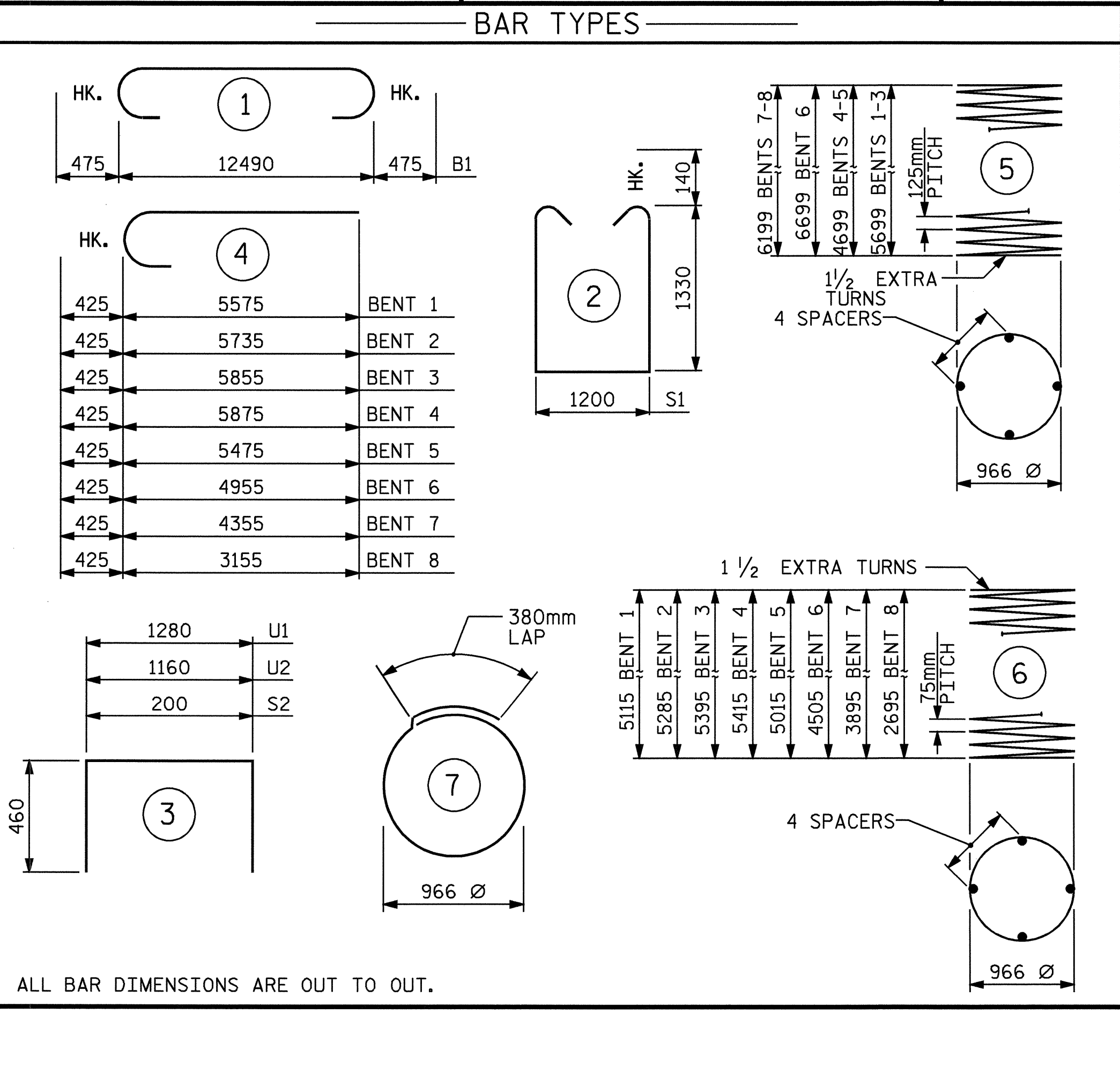


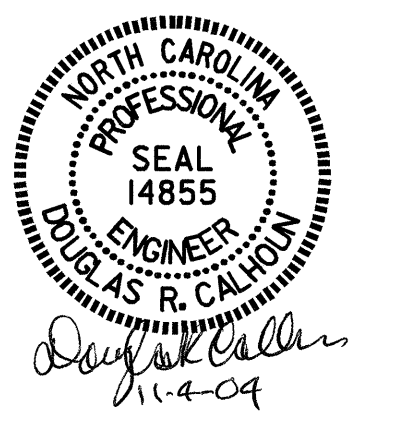
BILL OF MATERIAL BENT 1						BILL OF MATERIAL BENT 2						BILL OF MATERIAL BENT 3						BILL OF MATERIAL BENT 4						BILL OF MATERIAL BENT 5						BILL OF MATERIAL BENT 6											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT						
B1	7	#36	1	13440	744	B1	7	#36	1	13440	744	B1	7	#36	1	13440	744	B1	7	#36	1	13440	744	B1	7	#36	1	13440	744	B1	7	#36	1	13440	744	B1	7	#36	1	13440	744
B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155
B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5
B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792
M1	24	#32	STR	9200	1414	M1	24	#32	STR	9200	1414	M1	24	#32	STR	9200	1414	M1	24	#32	STR	8200	1260	M1	24	#32	STR	8200	1260	M1	24	#32	STR	10200	1568						
S1	60	#16	2	4140	386	S1	60	#16	2	4140	386	S1	60	#16	2	4140	386	S1	60	#16	2	4140	386	S1	60	#16	2	4140	386	S1	60	#16	2	4140	386						
S2	10	#13	3	1120	11	S2	10	#13	3	1120	11	S2	10	#13	3	1120	11	S2	10	#13	3	1120	11	S2	10	#13	3	1120	11	S2	10	#13	3	1120	11						
S3	10	#13	7	3420	34	S3	10	#13	7	3420	34	S3	10	#13	7	3420	34	S3	10	#13	7	3420	34	S3	10	#13	7	3420	34	S3	10	#13	7	3420	34						
U1	8	#13	3	2200	17	U1	8	#13	3	2200	17	U1	8	#13	3	2200	17	U1	8	#13	3	2200	17	U1	8	#13	3	2200	17	U1	8	#13	3	2200	17						
U2	10	#13	3	2080	21	U2	10	#13	3	2080	21	U2	10	#13	3	2080	21	U2	10	#13	3	2080	21	U2	10	#13	3	2080	21	U2	10	#13	3	2080	21						
V1	24	#32	4	6000	922	V1	24	#32	4	6160	947	V1	24	#32	4	6280	965	V1	24	#32	4	6300	968	V1	24	#32	4	6000	922	V1	24	#32	4	5380	827						
REINFORCING STEEL = 4501 KGS						REINFORCING STEEL = 4526 KGS						REINFORCING STEEL = 4544 KGS						REINFORCING STEEL = 4393 KGS						REINFORCING STEEL = 4347 KGS						REINFORCING STEEL = 4560 KGS											
SP-1	2	**	5	140680	437	SP-1	2	**	5	140680	437	SP-1	2	**	5	140680	437	SP-1	2	**	5	116780	362	SP-1	2	**	5	116780	362	SP-1	2	**	5	164580	511						
SP-2	2	***	6	208800	415	SP-2	2	***	6	215600	429	SP-2	2	***	6	220000	437	SP-2	2	***	6	220800	439	SP-2	2	***	6	204820	407	SP-2	2	***	6	184440	367						
SPIRAL COLUMN REINFORCING STEEL = 852 KGS						SPIRAL COLUMN REINFORCING STEEL = 866 KGS						SPIRAL COLUMN REINFORCING STEEL = 874 KGS						SPIRAL COLUMN REINFORCING STEEL = 801 KGS						SPIRAL COLUMN REINFORCING STEEL = 769 KGS						SPIRAL COLUMN REINFORCING STEEL = 878 KGS											
CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN											
POUR 2 COLUMN 9.0 C.M.						POUR 2 COLUMN 9.3 C.M.						POUR 2 COLUMN 9.5 C.M.						POUR 2 COLUMN 9.5 C.M.						POUR 2 COLUMN 8.8 C.M.						POUR 2 COLUMN 7.9 C.M.											
POUR 3 CAP 23.8 C.M.						POUR 3 CAP 23.7 C.M.						POUR 3 CAP 23.7 C.M.						POUR 3 CAP 23.8 C.M.						POUR 3 CAP 23.9 C.M.						POUR 3 CAP 23.9 C.M.											
POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.											
TOTAL 32.9 C.M.						TOTAL 33.1 C.M.						TOTAL 33.3 C.M.						TOTAL 33.4 C.M.						TOTAL 32.8 C.M.						TOTAL 31.9 C.M.											
DRILLED PIER CONCRETE						DRILLED PIER CONCRETE						DRILLED PIER CONCRETE						DRILLED PIER CONCRETE						DRILLED PIER CONCRETE						DRILLED PIER CONCRETE											
POUR 1 (DRILLED PIERS) 13.7 C.M.						POUR 1 (DRILLED PIERS) 13.7 C.M.						POUR 1 (DRILLED PIERS) 13.7 C.M.						POUR 1 (DRILLED PIERS) 11.3 C.M.						POUR 1 (DRILLED PIERS) 11.3 C.M.						POUR 1 (DRILLED PIERS) 16.0 C.M.											
1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS											
IN SOIL 4.7m						IN SOIL 5.2m						IN SOIL 4.2m						IN SOIL 5.7m						IN SOIL 6.2m						IN SOIL 6.7m											
1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS											
NOT IN SOIL 7.0m						NOT IN SOIL 6.5m						NOT IN SOIL 7.5m						NOT IN SOIL 4.0m						NOT IN SOIL 3.5m						NOT IN SOIL 7.0m											
PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m											
CSL TUBES 52.8m						CROSSHOLE SONIC LOGGING = 1 EACH CSL TUBES 52.7m						CSL TUBES 52.8m						CSL TUBES 44.7m						CROSSHOLE SONIC LOGGING = 1 EACH CSL TUBES 44.8m						CROSSHOLE SONIC LOGGING = 1 EACH CSL TUBES 60.0m											

BILL OF MATERIAL BENT 7						BILL OF MATERIAL BENT 8					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	7	#36	1	13440	744	B1	7	#36	1	13440	744
B2	8	#16	STR	12520	155	B2	8	#16	STR	12520	155
B3	4	#13	STR	1200	5	B3	4	#13	STR	1200	5
B4	8	#36	STR	12520	792	B4	8	#36	STR	12520	792
M1	24	#32	STR	9700	1491	M1	24	#32	STR	9700	1491
S1	60	#16	2	4140	386	S1	60	#16	3	4140	386
S2	10	#13	3	1120	11	S2	10	#13	4	1120	11
S3	10	#13	7	3420	34	S3	10	#13	7	3420	34
U1	8	#13	3	2200	17	U1	8	#13	3	2200	17
U2	10	#13	3	2080	21	U2	10	#13	3	2080	21
V1	24	#32	4	4780	735	V1	24	#32	2	3580	550
REINFORCING STEEL = 4391 KGS						REINFORCING STEEL = 4206 KGS					
SP-1	2	**	5	152640	474	SP-1	2	**	5	152640	474
SP-2	2	***	6	160080	318	SP-2	2	***	6	112140	223
SPIRAL COLUMN REINFORCING STEEL = 792 KGS						SPIRAL COLUMN REINFORCING STEEL = 697 KGS					
CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN					
POUR 2 COLUMN 6.8 C.M.						POUR 2 COLUMN 4.7 C.M.					
POUR 3 CAP 24.1 C.M.						POUR 3 CAP 24.0 C.M.					
POUR 4 LAT. GUIDE 0.1 C.M.						POUR 4 LAT. GUIDE 0.1 C.M.					
TOTAL 31.0 C.M.						TOTAL 28.8 C.M.					
DRILLED PIER CONCRETE						DRILLED PIER CONCRETE					
POUR 1 (DRILLED PIERS) 14.8 C.M.						POUR 1 (DRILLED PIERS) 14.8 C.M.					
1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS					
IN SOIL 5.2m						IN SOIL 5.7m					
1220mm Ø DRILLED PIERS						1220mm Ø DRILLED PIERS					
NOT IN SOIL 7.5m						NOT IN SOIL 7.0m					
PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m						PERMANENT STEEL CASING FOR 1220mm Ø DRILLED PIERS 5.7m					
CSL TUBES 56.7m						CROSSHOLE SONIC LOGGING = 1 EACH CSL TUBES 56.7m					



** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.

*** THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.



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

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENTS 1 THRU 8					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-45
					TOTAL SHEETS 112

DRAWN BY : K. McCauley DATE : 8/16/04
 CHECKED BY : W. S. Arafat DATE : 9/29/04