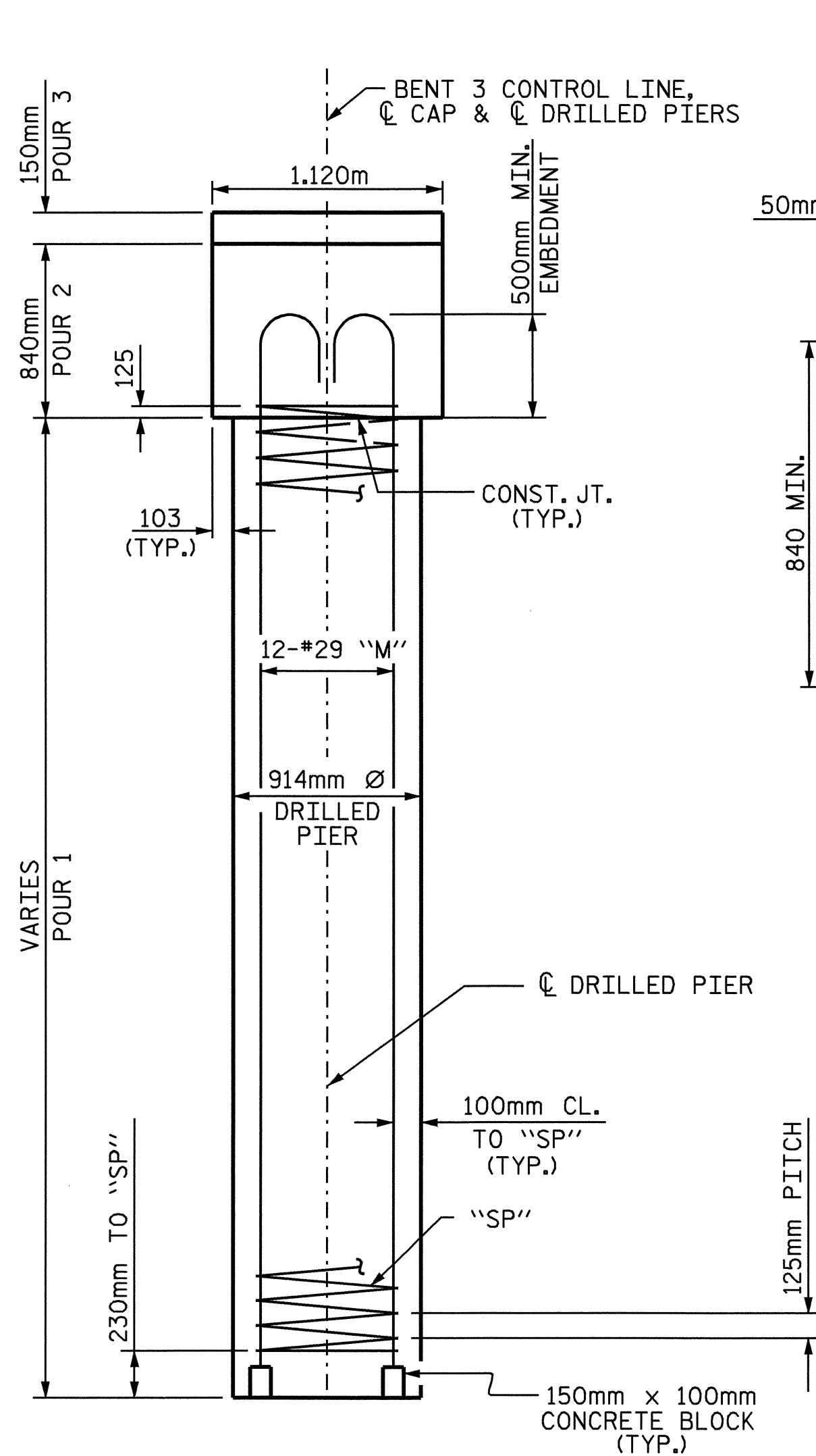
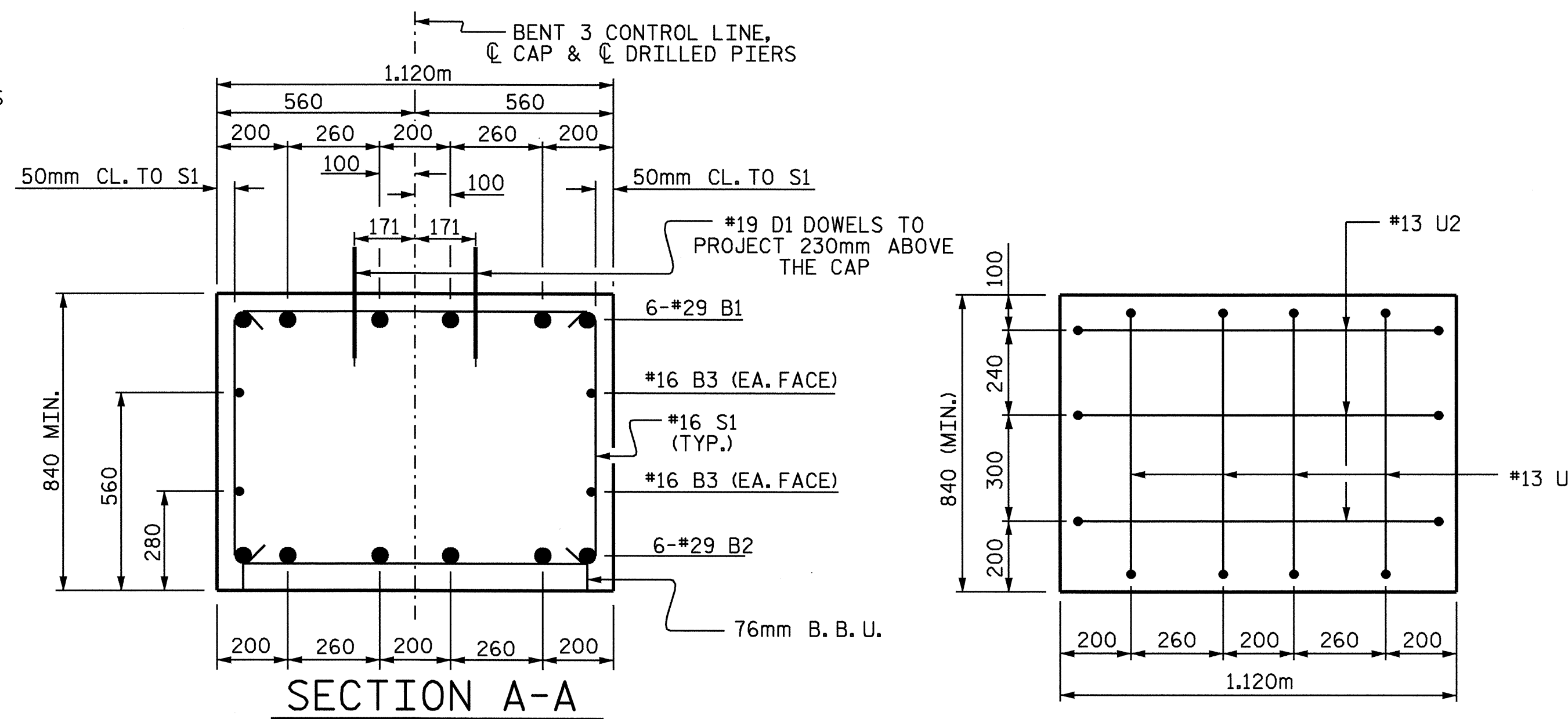


PLAN OF DRILLED PIERS

(DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH DRILLED PIER)

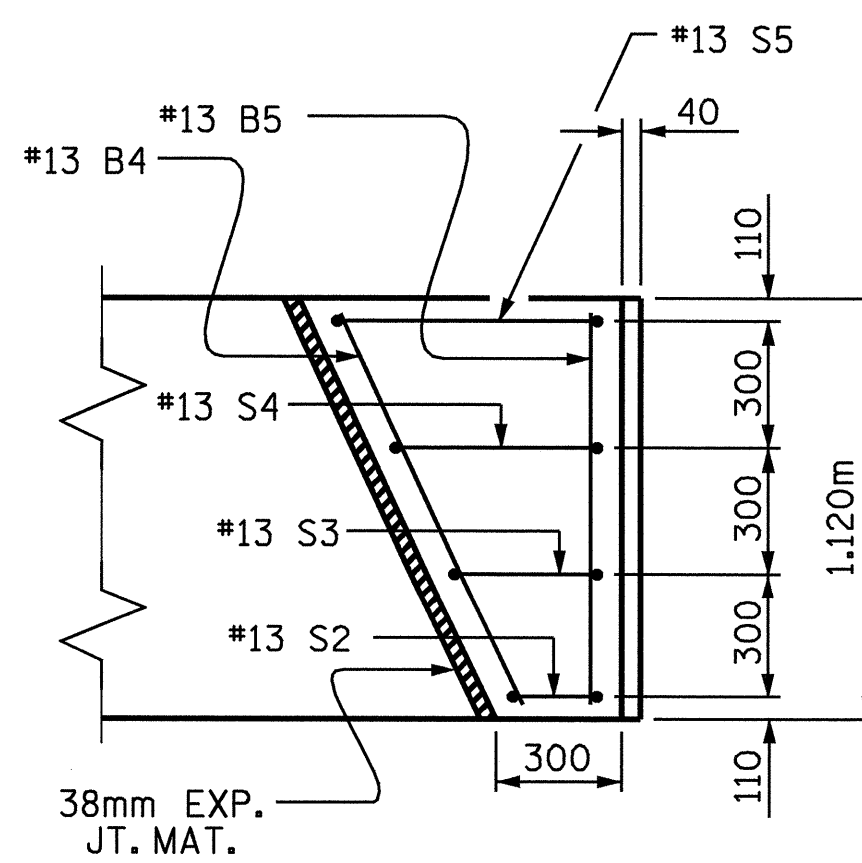


END ELEVATION
(TYP. EA. DRILLED PIER)

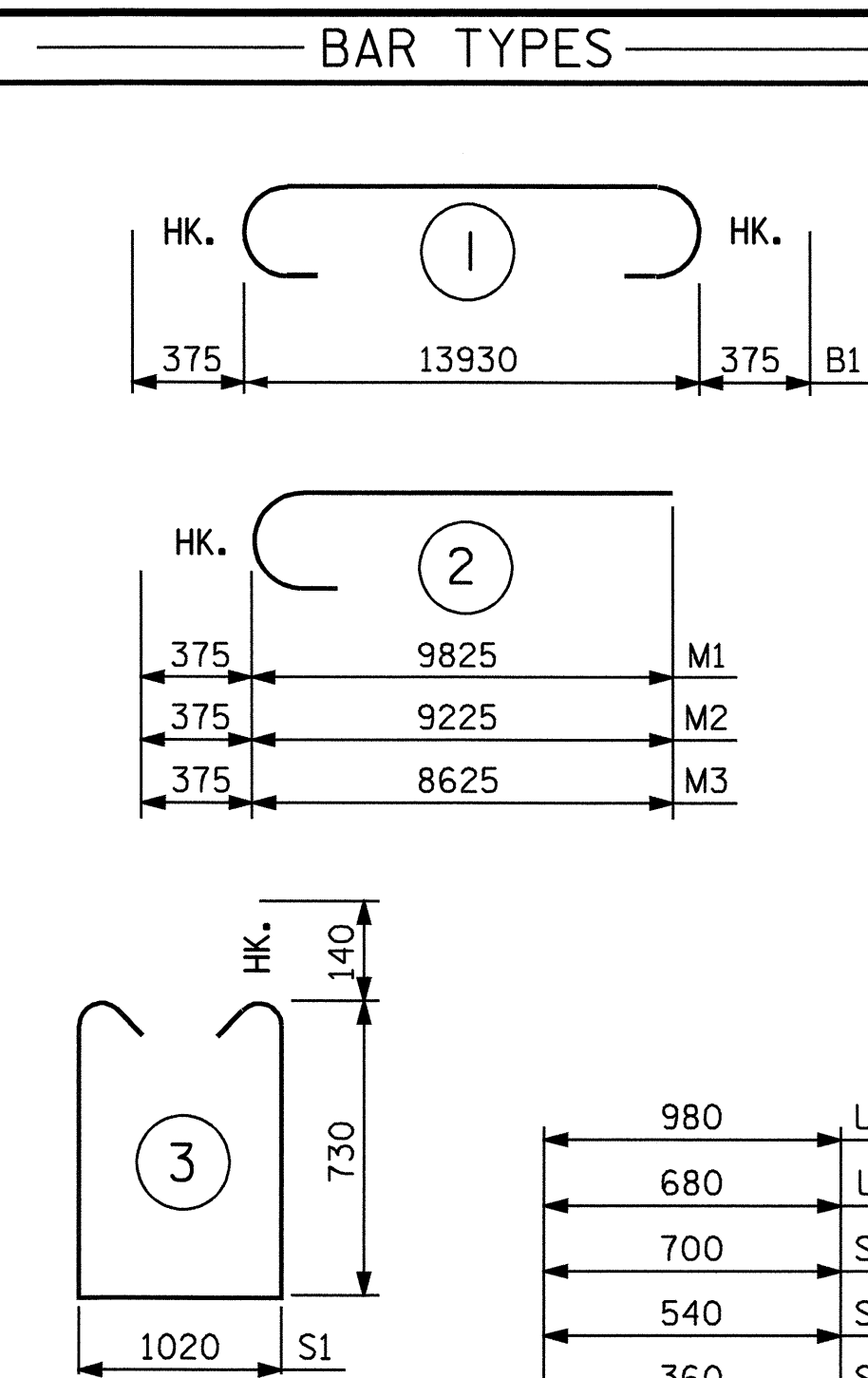


SECTION A-A

VIEW X-X



LATERAL GUIDE DETAIL
(EACH END SIMILAR)



BILL OF MATERIAL

BENT 3

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#29	1	14680	446
B2	6	#29	STR	13980	424
B3	4	#16	STR	13980	87
B4	2	#13	STR	1180	2
B5	2	#13	STR	1020	2
D1	48	#19	STR	460	49
M1	12	#29	2	10200	619
M2	12	#29	2	9600	583
M3	12	#29	2	9000	546
S1	48	#16	3	2760	206
S2	2	#13	4	1100	2
S3	2	#13	4	1280	3
S4	2	#13	4	1460	3
S5	2	#13	4	1620	3
U1	8	#13	4	1600	13
U2	6	#13	4	1900	12

REINFORCING STEEL KG. 3000

SP-1	1	**	5	151,240	235
SP-2	1	**	5	140,280	218
SP-3	1	**	5	131,500	205

SPIRAL COLUMN REINFORCING STEEL KG. 658

CLASS "A" CONCRETE BREAKDOWN			
POUR #2 (CAP)	M ³	13.2	
POUR #3 (LATERAL GUIDES)	M ³	0.2	
TOTAL	M ³	13.4	

DRILLED PIER QUANTITIES

DRILLED PIER CONCRETE			
POUR #1 (DRILLED PIERS)	M ³	15.5	
914mm Ø DRILLED PIER IN SOIL	METERS	18.4	
914mm Ø DRILLED PIER NOT IN SOIL	METERS	5.3	
PERMANENT STEEL CASING FOR 914mm Ø DRILLED PIER	METERS	13.2	
CROSSHOLE SONIC LOGGING	EA.	1	
CSL TUBES	METERS	104.9	

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

ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. B-3266
WILKES COUNTY
STATION: 12+48.000 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE BENT 3



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			26

DRAWN BY: J.L. WALTON DATE: 6/2/04
CHECKED BY: D.G. ELY DATE: 8/5/04