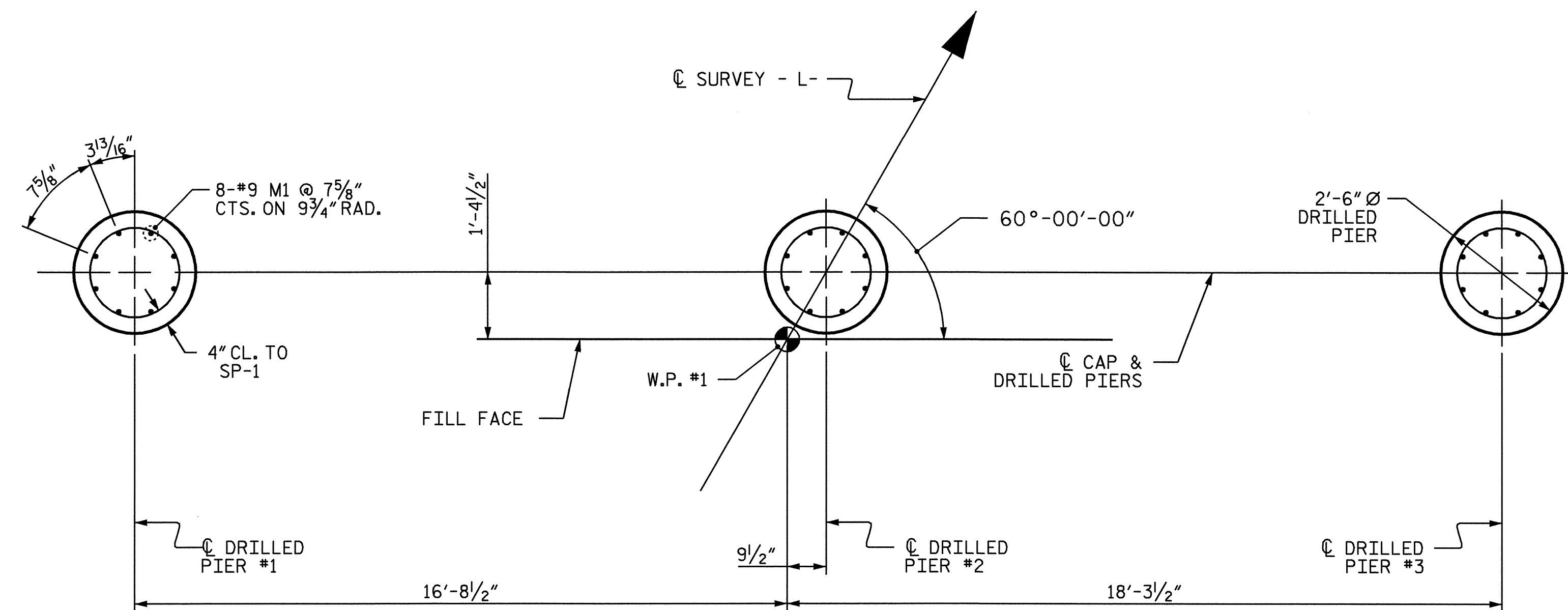
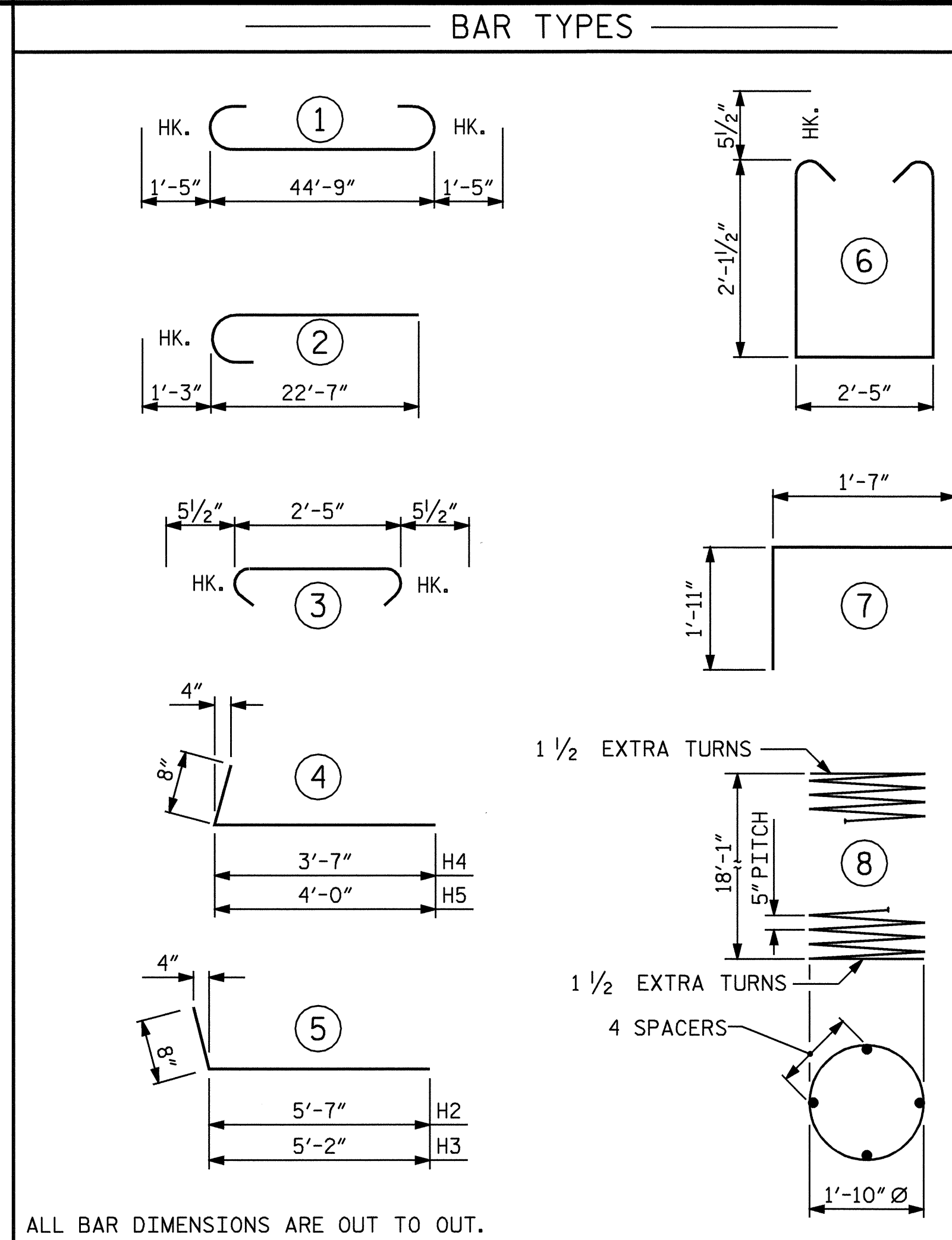


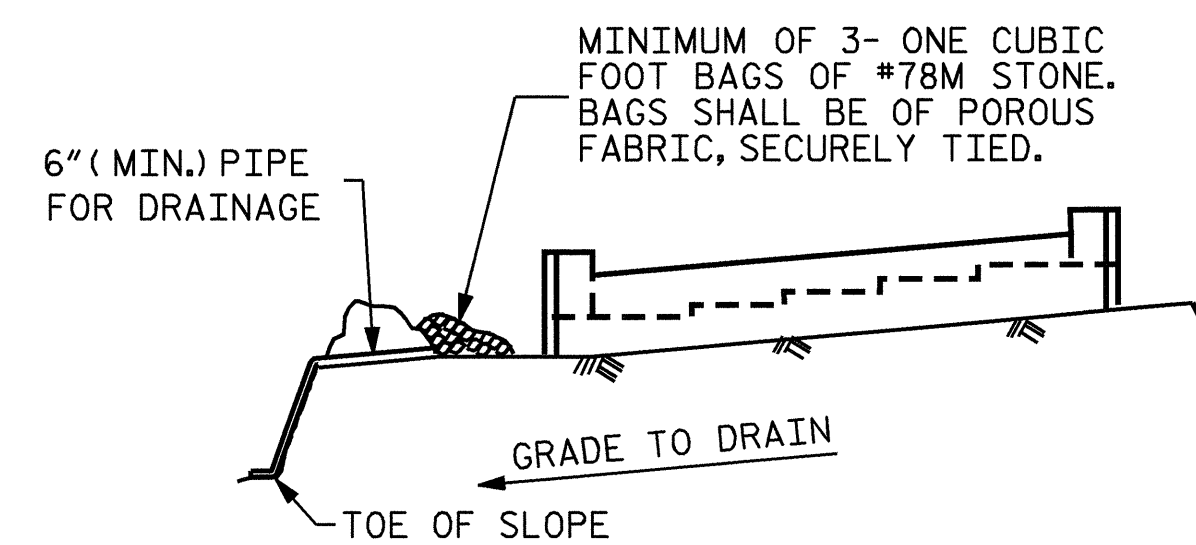
PLAN  
ELEVATION  
LATERAL GUIDE DETAILS  
(EACH END SIMILAR)



PLAN OF DRILLED PIERS  
DETAILS SHOWN ARE TYPICAL FOR EACH DRILLED PIER



ALL BAR DIMENSIONS ARE OUT TO OUT.



BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#10	1	47'-7"	2048
B2	2	#5	STR	44'-11"	94
B3	12	#4	STR	2'-5"	19
D1	22	#6	STR	1'-6"	50
H1	8	#4	STR	3'-0"	16
H2	5	#4	5	6'-3"	21
H3	5	#4	4	5'-10"	19
H4	5	#4	4	4'-3"	14
H5	5	#4	4	4'-8"	16
M1	24	#9	2	23'-10"	1945
S1	44	#5	3	3'-4"	153
S2	44	#5	6	7'-7"	348
S3	4	#4	7	5'-5"	14
V1	20	#4	STR	4'-2"	56
V2	18	#4	STR	4'-1"	49

REINFORCING STEEL					LBS.	4862
SP-1	3	**	8	260'-5"		815

TOTAL SPIRAL COLUMN REINFORCING STEEL					LBS.	815
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CLASS A CONCRETE BREAKDOWN						
POUR #2 (CAP & WINGS)		CU. YD.	12.2			
POUR #3 (WINGS)		CU. YD.	1.1			
POUR #4 (LATERAL GUIDE)		CU. YD.	0.1			
TOTAL CONCRETE					CU. YD.	13.4

DRILLED PIER QUANTITIES

DRILLED PIER CONCRETE	
POUR #1 (DRILLED PIERS)	CU. YD. 10.0
2'-6" Ø DRILLED PIER IN SOIL	LIN. FT. 43.25
2'-6" Ø DRILLED PIER NOT IN SOIL	LIN. FT. 12.00
PERMANENT STEEL CASING FOR 2'-6" Ø DRILLED PIER	LIN. FT. 45.33
CSL TUBES	LIN. FT. 251.00

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

PROJECT NO. B-3808

AVERY COUNTY

STATION: 17+13.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-10
1			3			TOTAL SHEETS
2			4			17