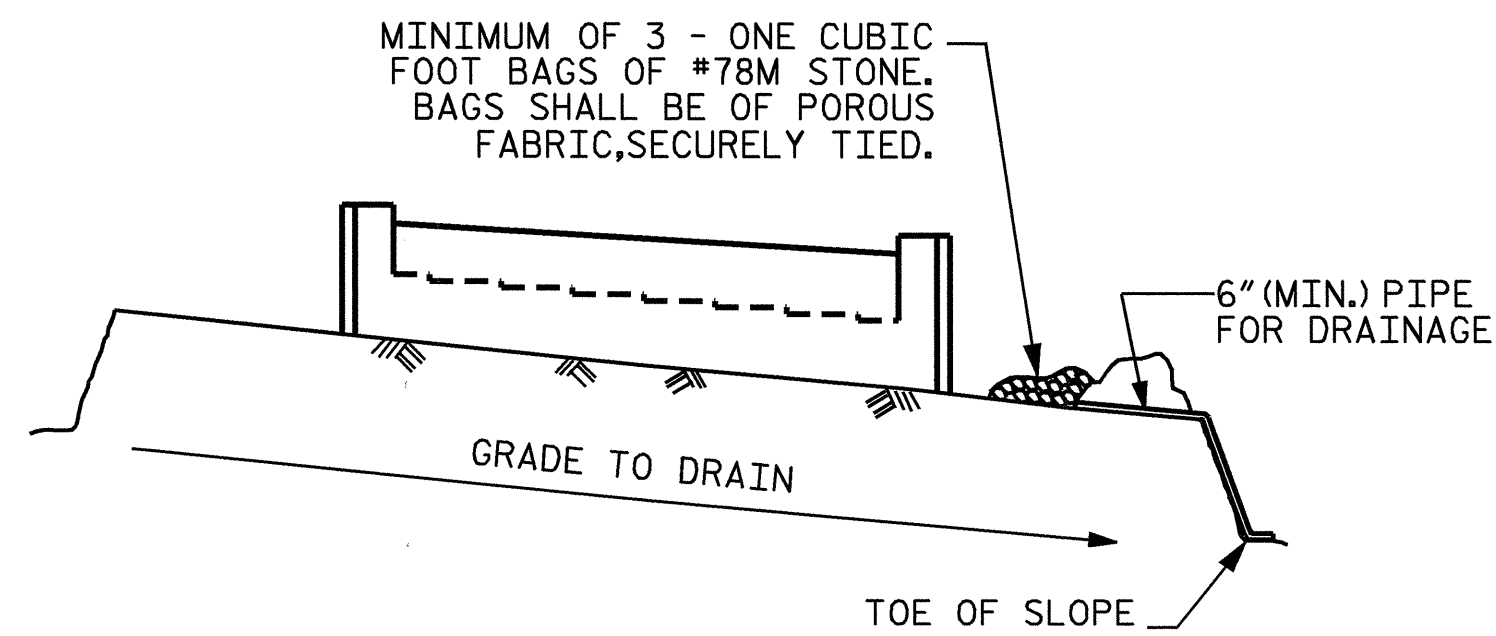


*POSITION OF PILE DURING WELDING.
PILE SPLICE DETAILS

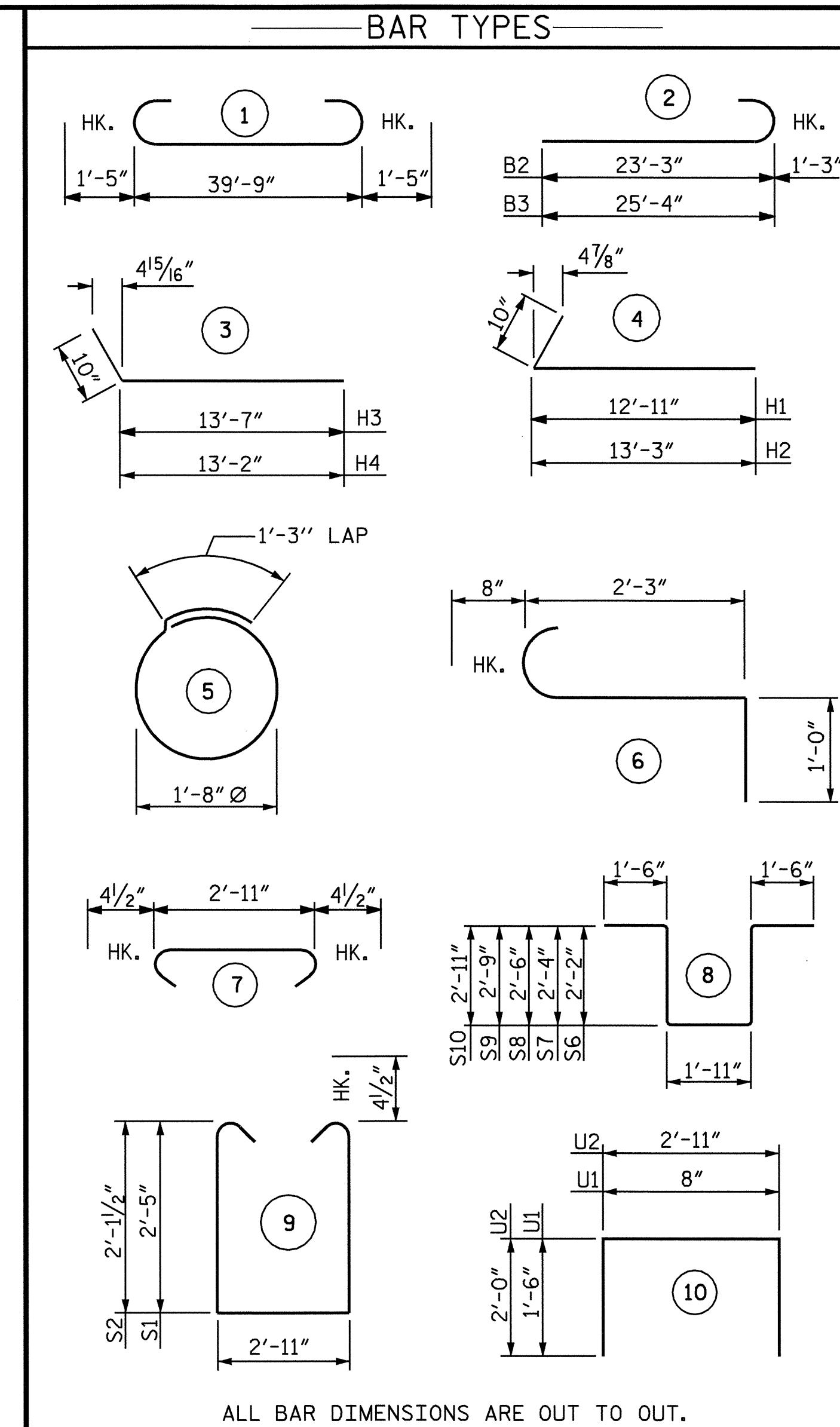


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

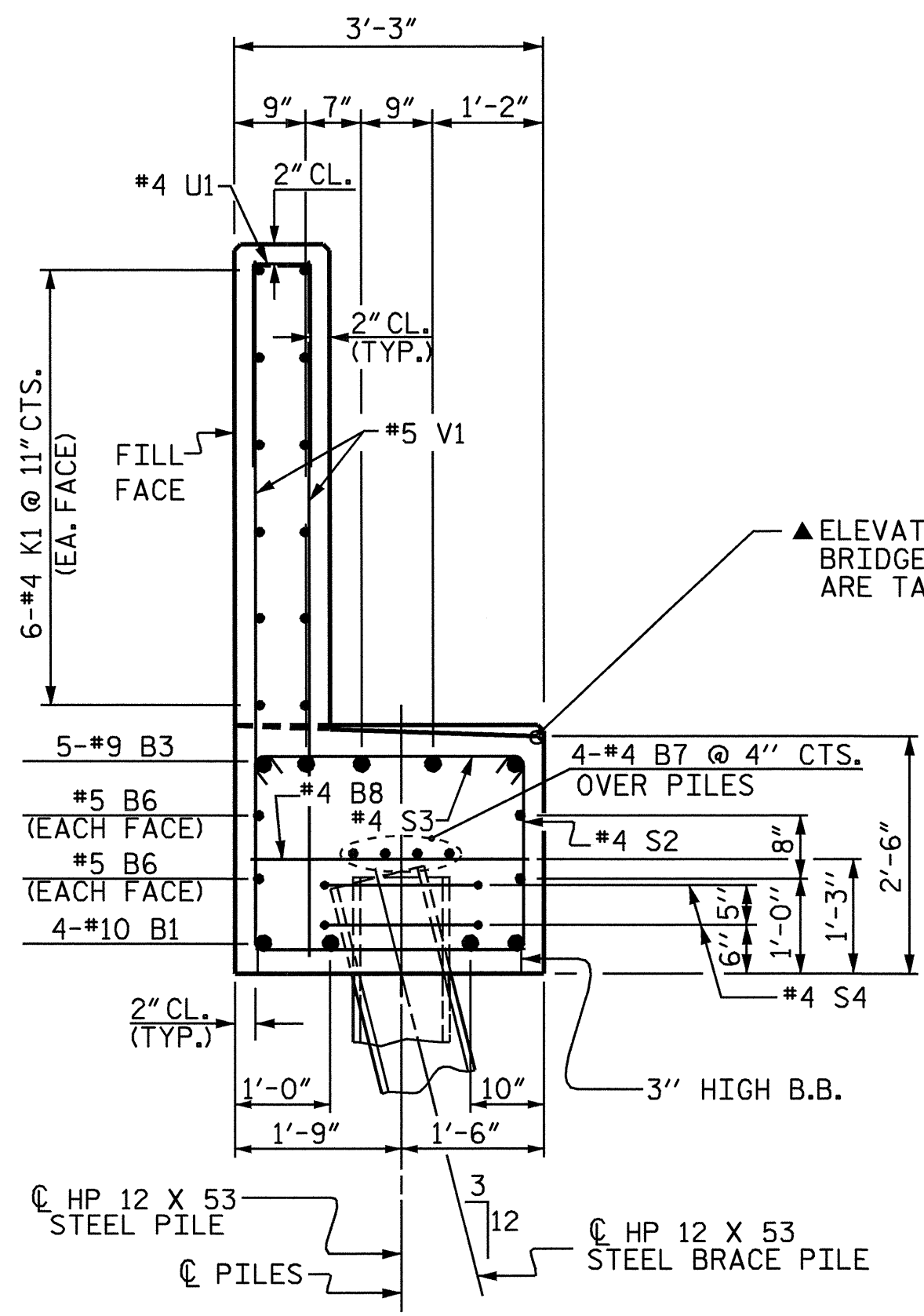
TEMPORARY DRAINAGE AT END BENT



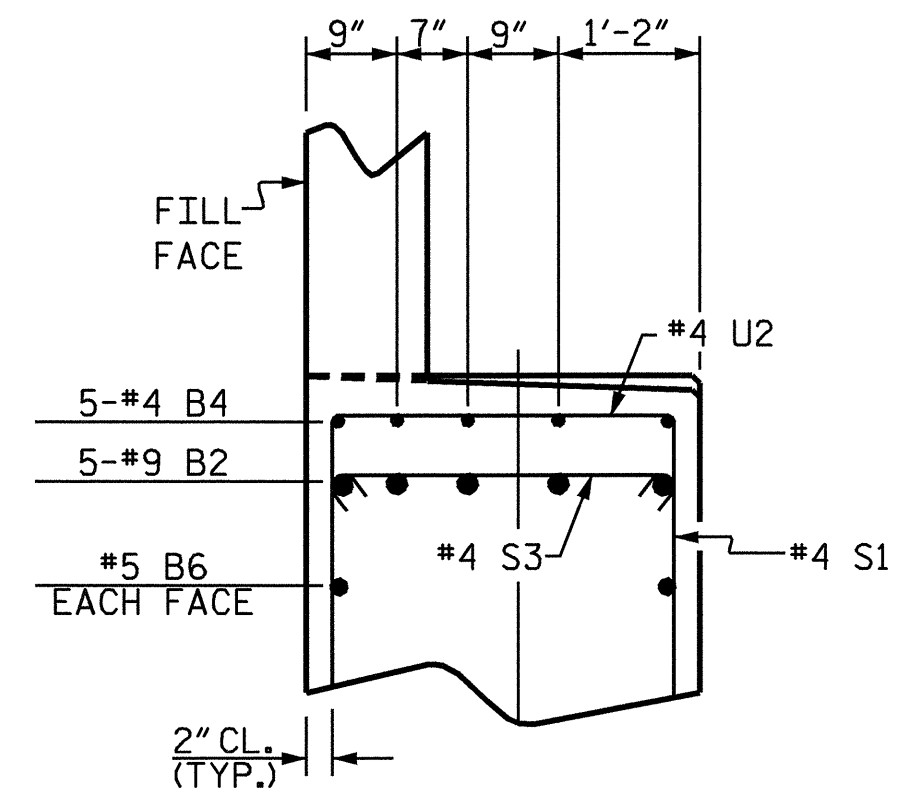
BILL OF MATERIAL					
END BENT No. 1					
BAR NO	SIZE	TYPE	LENGTH	WEIGHT	
B1	4	10	1	42'-7"	733
B2	5	9	2	24'-6"	417
B3	5	9	2	26'-7"	452
B4	5	4	STR	14'-4"	48
B5	5	4	STR	2'-4"	8
B6	4	5	STR	39'-11"	167
B7	8	4	STR	21'-2"	113
B8	13	4	STR	2'-11"	25
B9	4	4	STR	3'-7"	10
B10	4	4	STR	2'-10"	8
B11	4	6	STR	3'-8"	22
H1	11	5	4	13'-9"	158
H2	11	5	4	14'-1"	162
H3	10	5	3	14'-5"	150
H4	10	5	3	14'-0"	146
K1	24	4	STR	21'-2"	339
K2	8	4	STR	2'-11"	16
S1	24	4	9	8'-6"	136
S2	18	4	9	7'-11"	95
S3	42	4	7	3'-8"	103
S4	12	4	5	6'-6"	52
S5	6	6	6	3'-11"	35
S6	2	6	8	9'-7"	28
S7	2	6	8	9'-7"	29
S8	2	6	8	9'-11"	30
S9	2	6	8	10'-5"	31
S10	2	6	8	10'-9"	32
U1	34	4	10	3'-8"	83
U2	13	4	10	6'-11"	60
V1	68	5	STR	7'-4"	520
V2	36	5	STR	9'-6"	357
V3	36	5	STR	8'-6"	319
REINFORCING STEEL				LBS.	4884

CLASS A CONCRETE BREAKDOWN	
POUR #1 (CAP & LOWER WING)	17.6 C.Y.
POUR #2 (BACKWALL & UPPER WING)	15.2 C.Y.
TOTAL CLASS A CONCRETE	32.8 C.Y.

HP 12 X 53 STEEL PILES
NO. 8
320 FEET



SECTION A-A



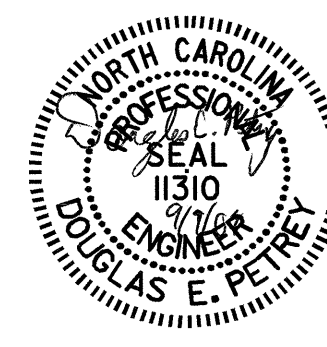
PARTIAL SECTION B-B

PROJECT NO. R-2417BB
LEE COUNTY
STATION: 519+42.20 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT No. 1



REVISIONS						SHEET NO. S-21
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 78
2			4			

DRAWN BY: A. V. ROYAL DATE: 01-04
CHECKED BY: P. C. BREWER DATE: 01-04

27-AUG-2004 09:15
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bngady