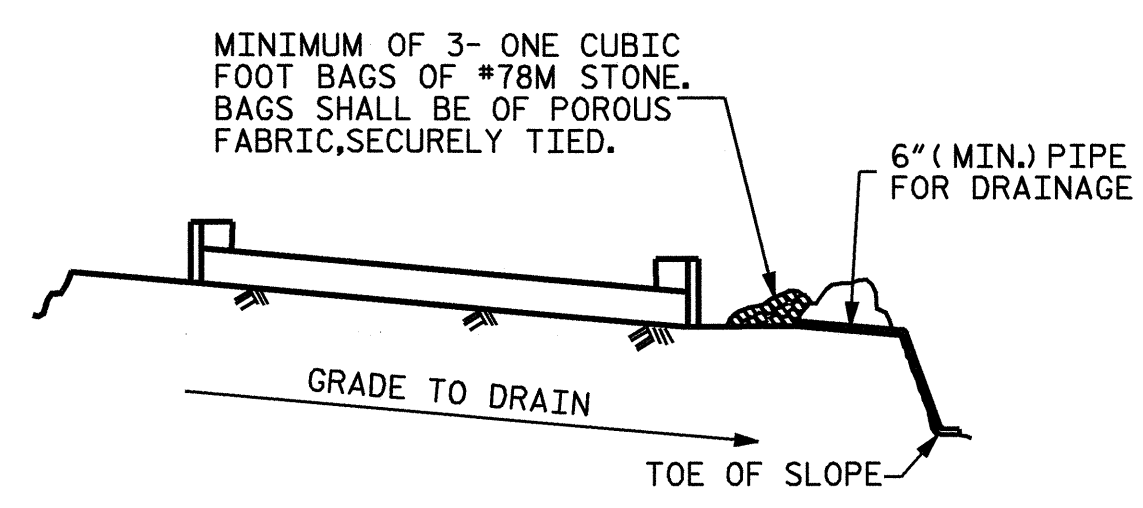


ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	53'-0"	1442
B2	2	#6	STR	50'-8"	152
B3	8	#4	STR	26'-7"	142
B4	13	#4	STR	2'-5"	21
D1	30	#6	STR	1'-6"	68
H1	24	#4	5	5'-7"	90
K1	12	#4	STR	2'-6"	20
S1	44	#4	3	7'-5"	218
S2	44	#4	2	3'-2"	93
S3	14	#4	6	6'-6"	61
S4	4	#4	4	5'-1"	14
V1	20	#4	STR	4'-3"	57
V2	20	#4	STR	4'-5"	59
REINFORCING STEEL =				2437	LBS

CLASS "A" CONCRETE BREAKDOWN	
POUR #1 CAP & BOTTOM OF WINGS	13.9 C.Y.
POUR #2 TOP PART OF WINGS	1.2 C.Y.
POUR #3 LATERAL GUIDES	0.1 C.Y.
CLASS "A" CONCRETE TOTAL	15.2 C.Y.

HP 12 X 53 STEEL PILES		
NO. 7	LIN. FT.	210



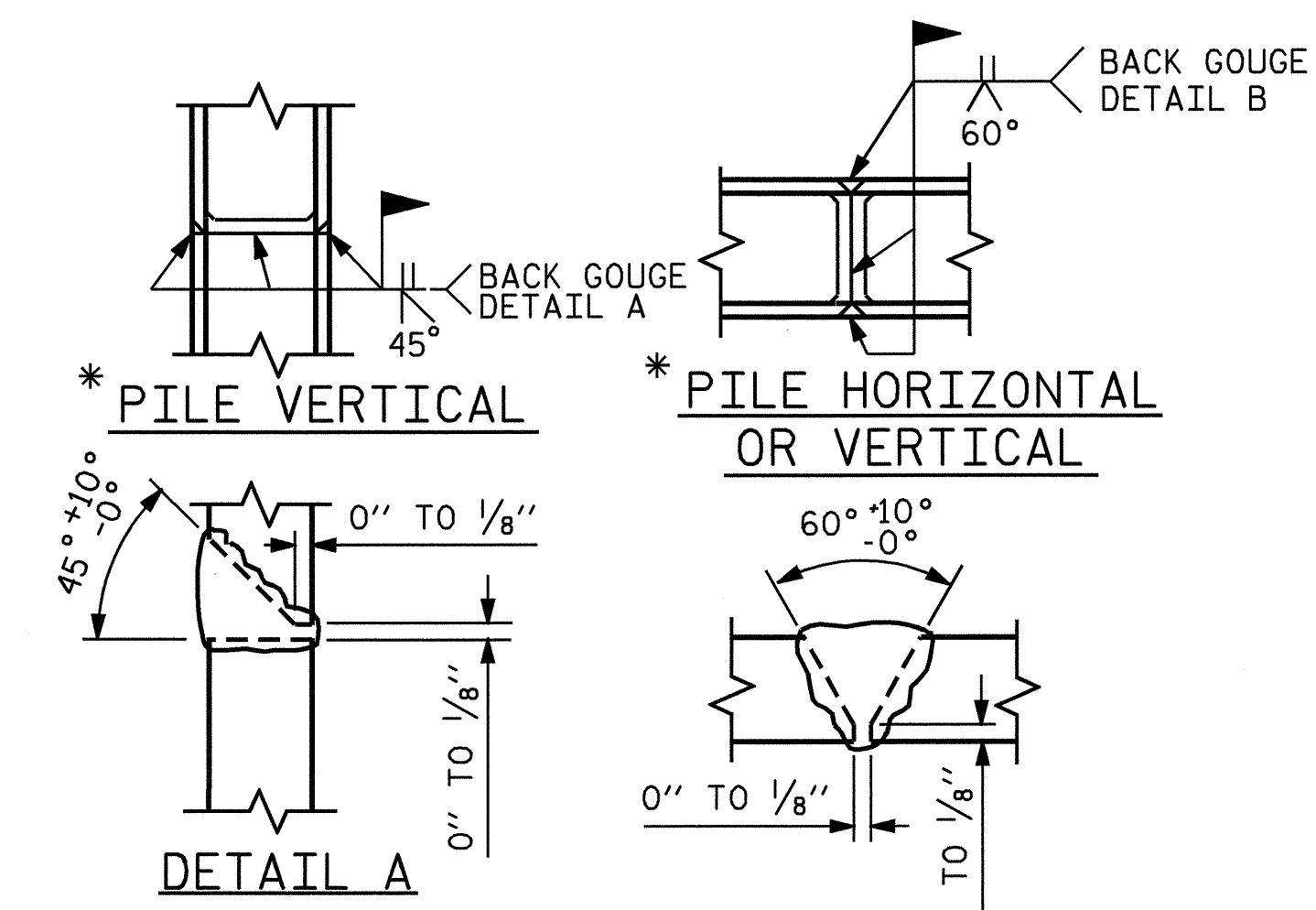
MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

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



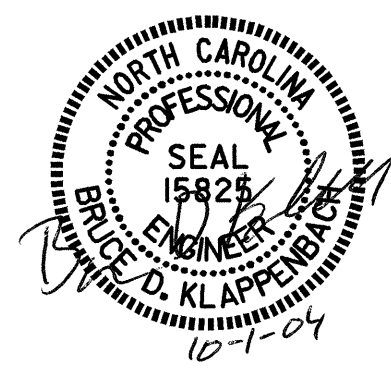
* POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

PROJECT NO. B-3454
FORSYTH COUNTY
 STATION: 20+93.00 -L-
 SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SUBSTRUCTURE
 END BENT #2**



DRAWN BY: J.B. WILSON DATE: 8/04
 CHECKED BY: D.A. GLADDEN DATE: 9/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			27
2			4			27