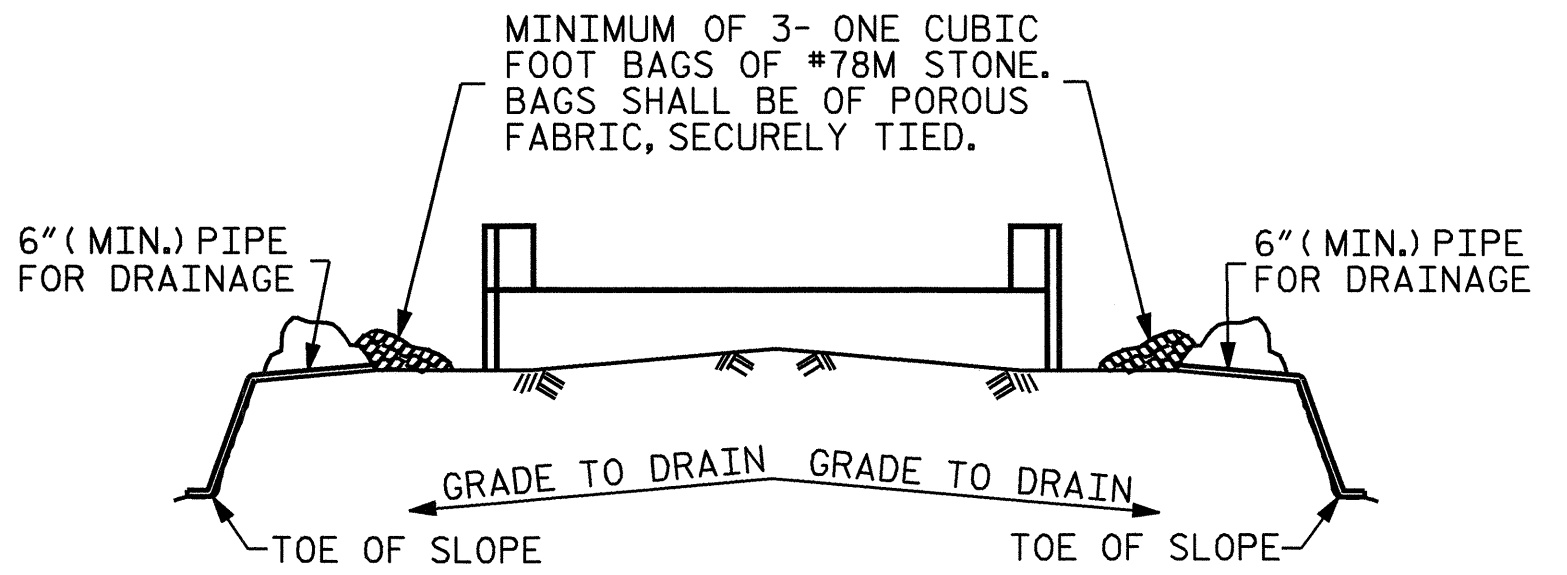
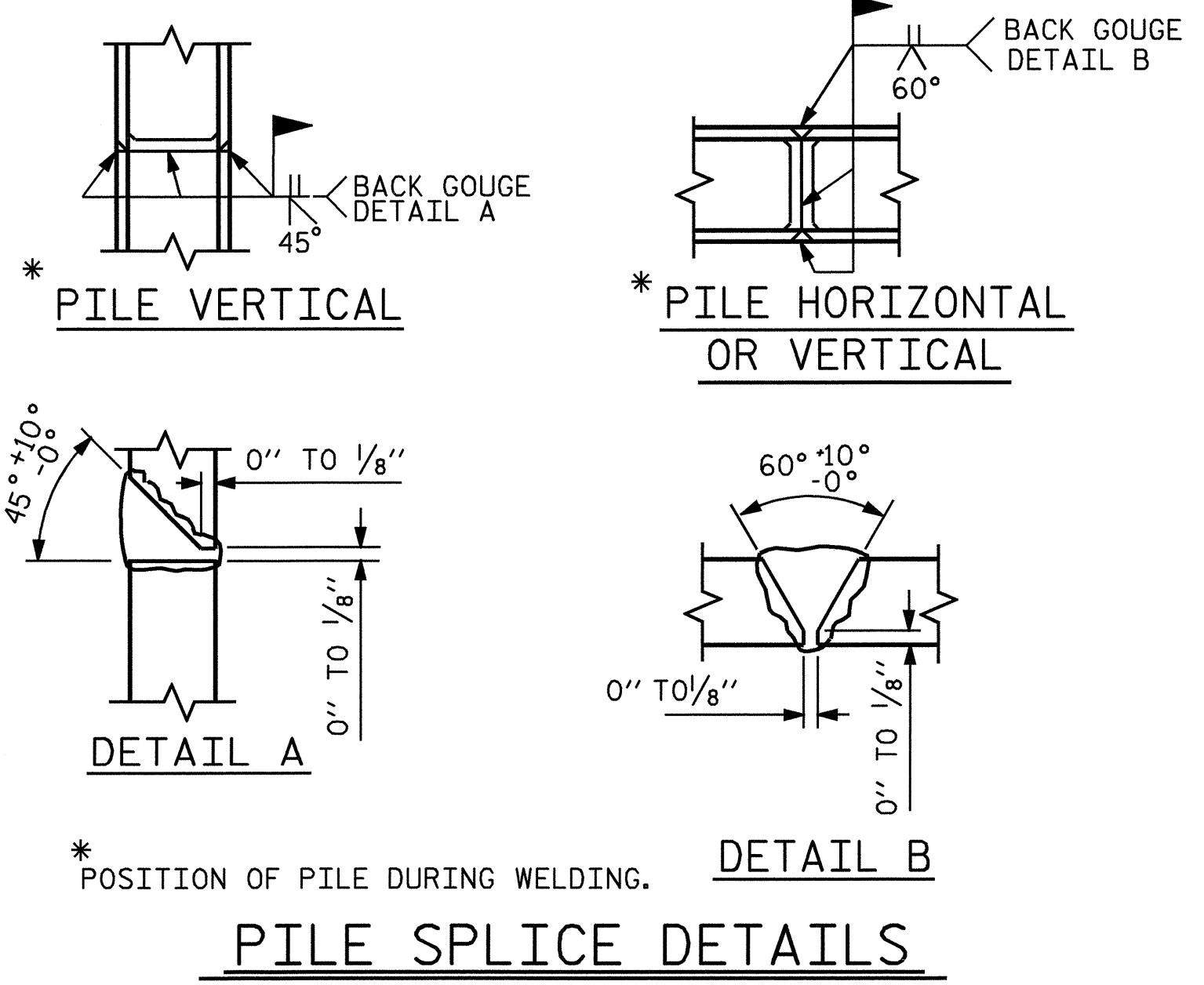


SECTION A-A



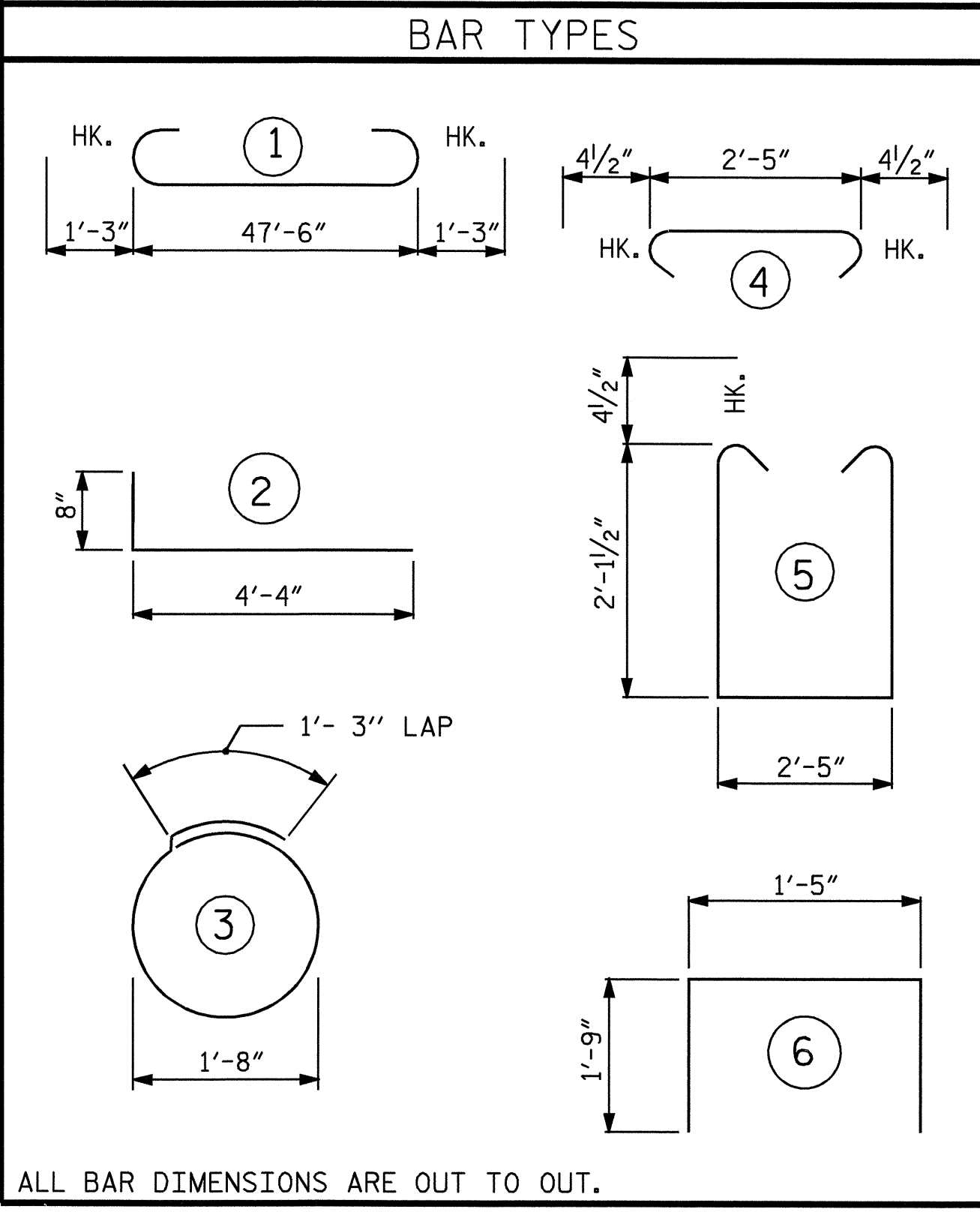
MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

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



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
END BENT #1					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	#9	1	50'-0"	1360	
B2	#5	STR	47'-8"	199	
B3	#4	STR	25'-1"	134	
B4	#4	STR	2'-5"	19	
D1	#6	STR	1'-6"	63	
H1	#4	2	5'-0"	80	
K1	#4	STR	2'-6"	20	
S1	#4	5	7'-5"	223	
S2	#4	4	3'-2"	95	
S3	#4	3	6'-6"	61	
U1	#4	6	4'-11"	13	
V1	#4	STR	3'-10"	82	
REINFORCING STEEL				LBS.	2349
CLASS A CONC. BREAKDOWN					
POUR 1 (CAP & LOWER WINGS)				C.Y.	12.9
POUR 2 (UPPER WINGS)				C.Y.	0.9
POUR 3 (LATERAL GUIDES)				C.Y.	0.1
TOTAL				C.Y.	13.9
HP 12X53 STEEL PILES					
NUMBER = 7		LIN. FT. = 70			
PILE EXCAVATION IN SOIL		LIN. FT. = 21			
PILE EXCAVATION NOT IN SOIL		LIN. FT. = 9			

SPLICE LENGTH CHART		
BARS	SIZE	SPLICE LENGTH
B3	#4	2'-5"

PROJECT NO. B-3182
HALIFAX COUNTY
STATION: 15+07.50 -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			13