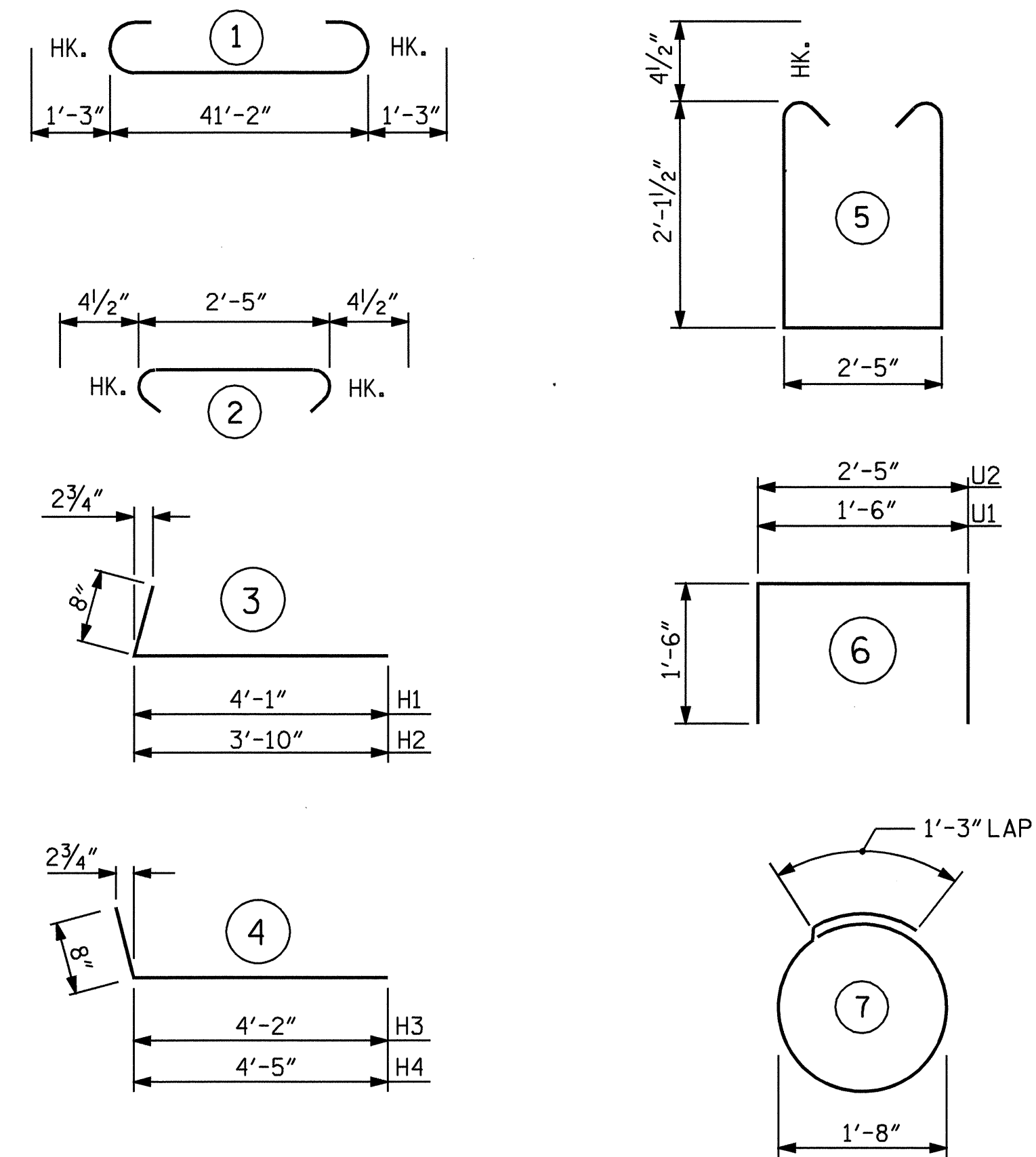


SECTION A-A

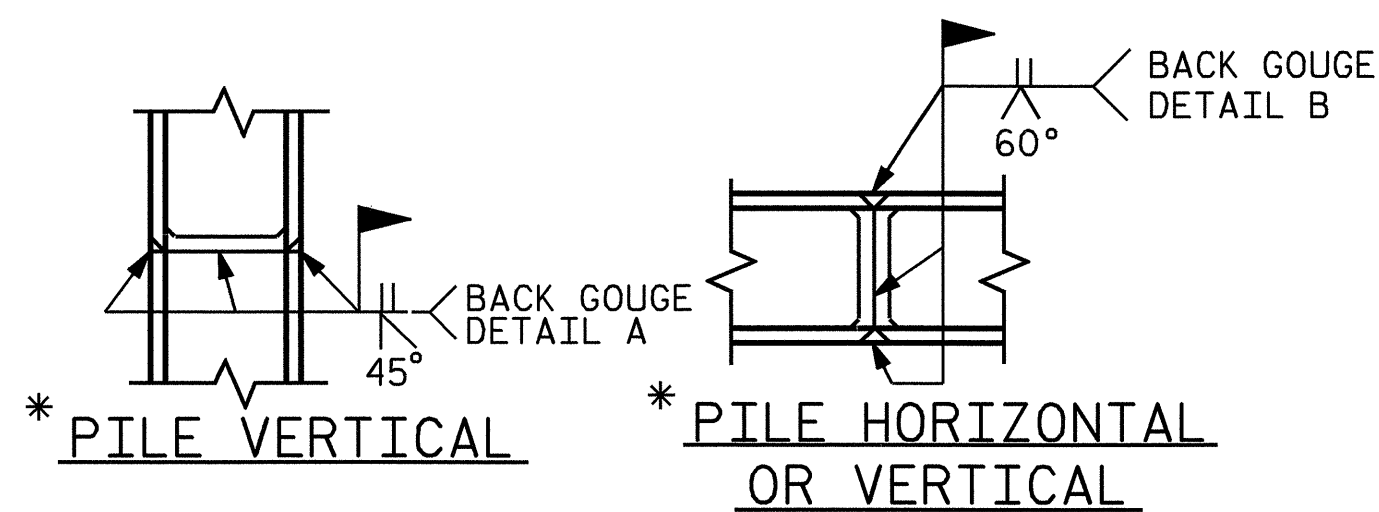
BAR TYPES



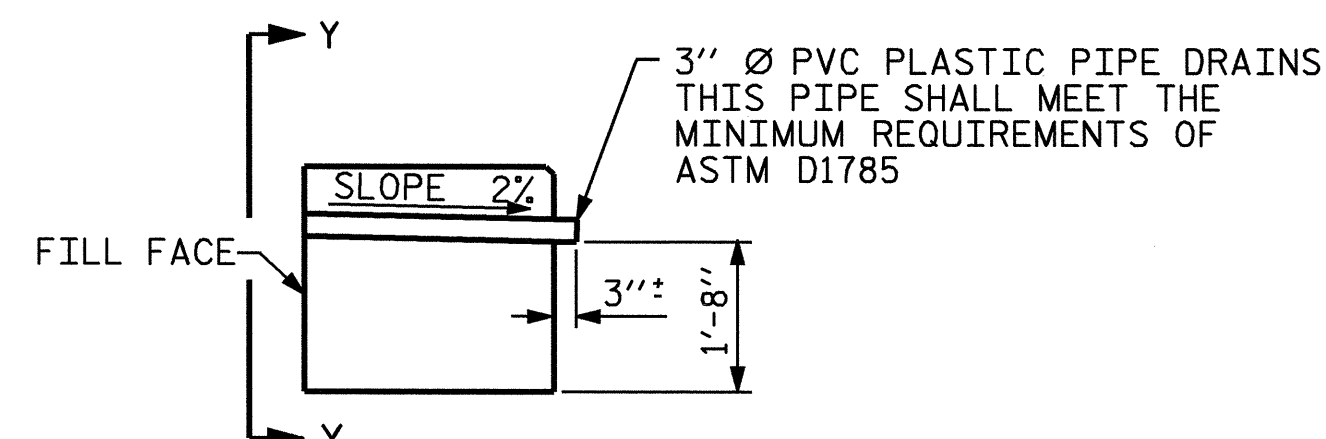
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

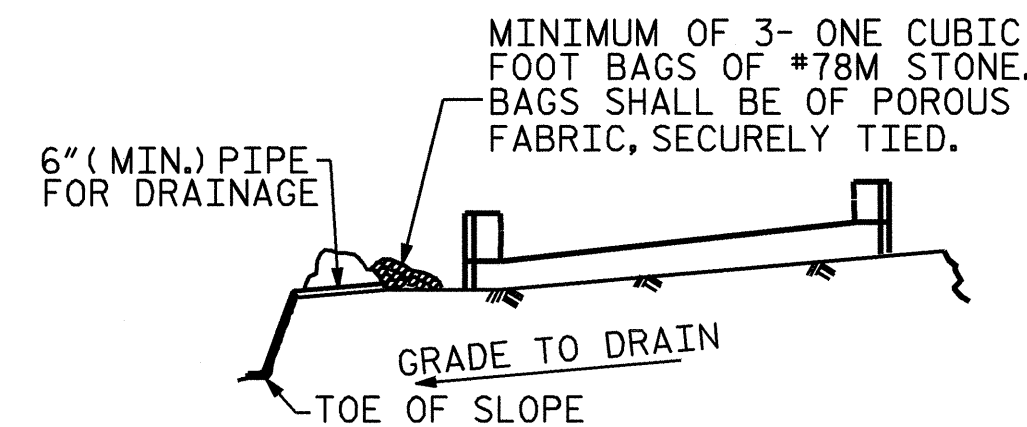
END BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	43'-8"	1188
B2	16	#4	STR	21'-11"	234
B3	10	#4	STR	2'-5"	16
B4	4	#4	STR	25'-0"	67
D1	22	#6	STR	1'-6"	50
H1	6	#4	3	4'-9"	19
H2	6	#4	3	4'-6"	18
H3	7	#4	4	4'-10"	23
H4	7	#4	4	5'-1"	24
K1	12	#4	STR	2'-10"	23
S1	38	#4	5	7'-5"	188
S2	38	#4	2	3'-2"	80
S3	14	#4	7	6'-6"	61
U1	4	#4	6	4'-6"	12
U2	17	#4	6	5'-5"	62
V1	18	#4	STR	4'-4"	52
V2	18	#4	STR	4'-11"	59
TOTAL REINFORCING STEEL LBS.				2176	
CLASS A CONCRETE (CU. YDS.)					
POUR 1 CAP & LOWER PART OF WINGS				12.8	
POUR 2 UPPER PART OF WINGS				1.0	
POUR 3 LATERAL GUIDES				0.1	
TOTAL (CU. YDS.)				13.9	
HP 12 x 53 STEEL PILES No. 7 LIN. FT.				70	
STEEL PILE POINTS EACH				7	



* PILE VERTICAL
 * PILE HORIZONTAL OR VERTICAL
 * POSITION OF PILE DURING WELDING.
 PILE SPLICE DETAILS

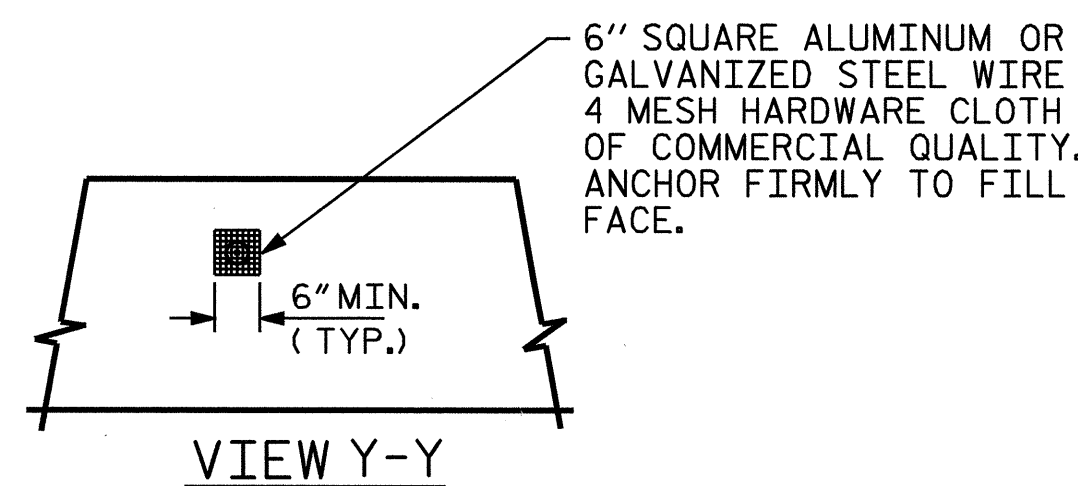


SECTION THRU CAP



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



PIPE DRAIN DETAILS

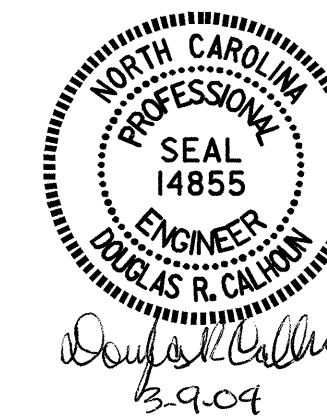
NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

PROJECT NO. B-3614
BUNCOMBE COUNTY
 STATION: 14+24.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT 1



REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	DATE:
1			3	
2			4	

DRAWN BY: A. K. PATEL DATE: 7/07/03
 CHECKED BY: T. A. HARRIS DATE: 7/24/03