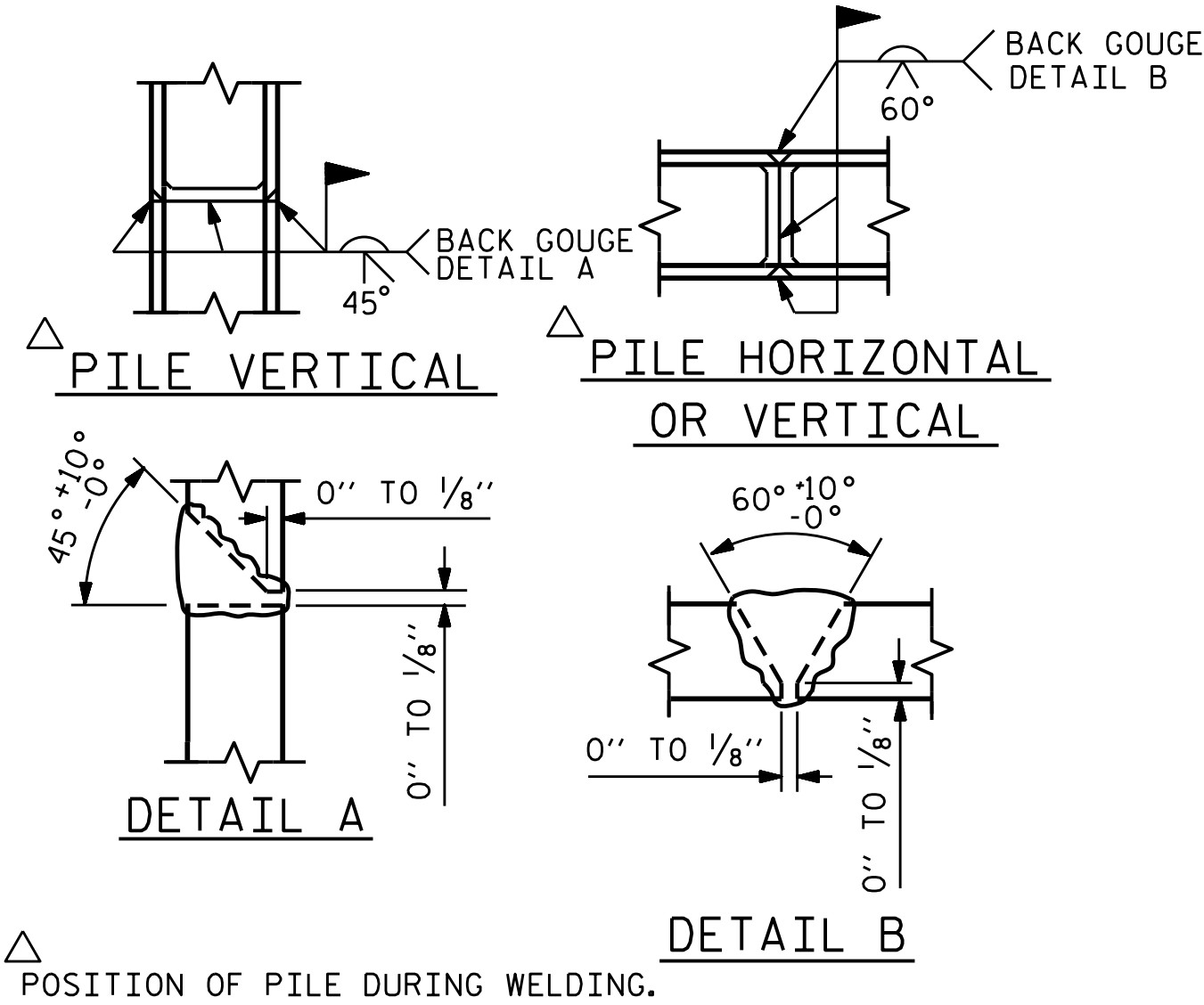


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

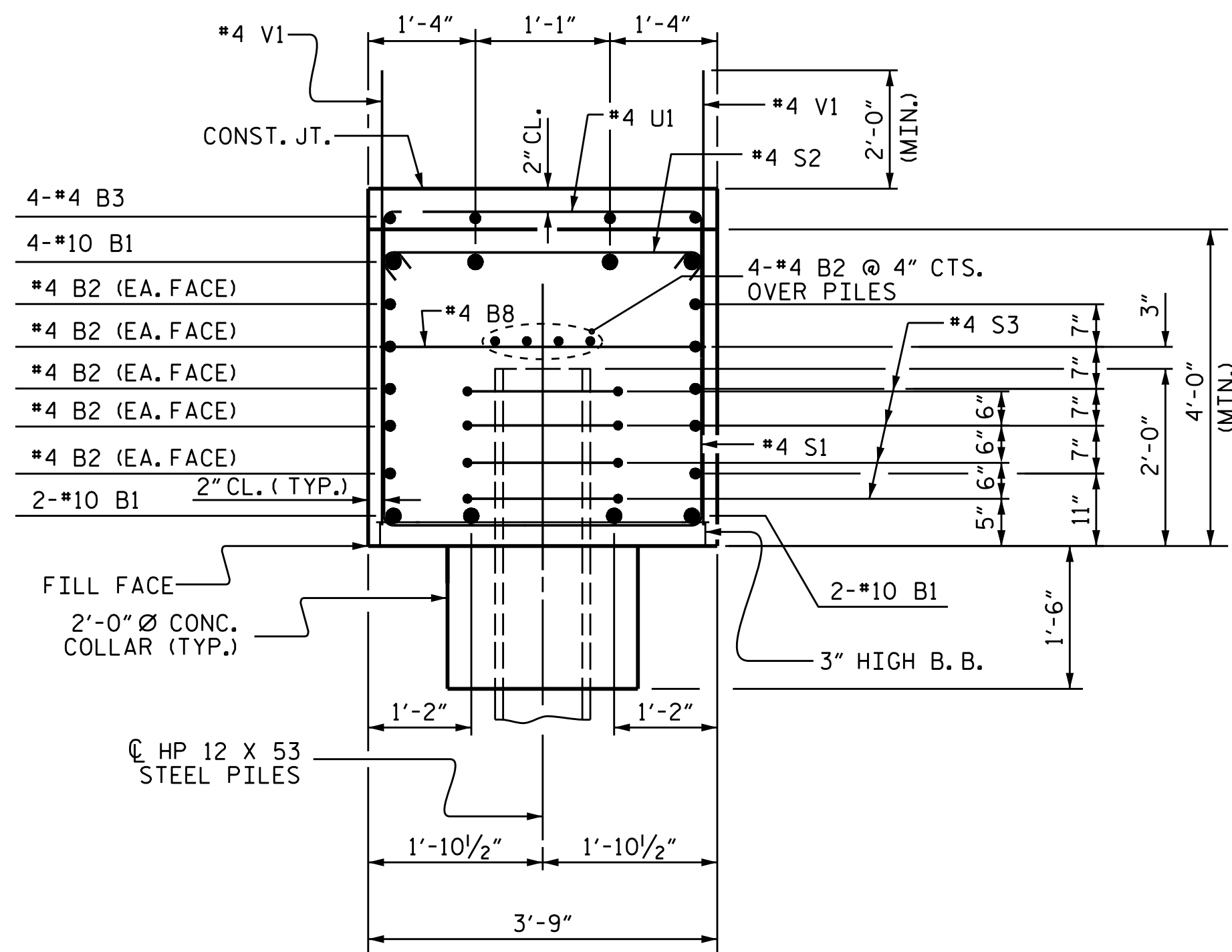
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

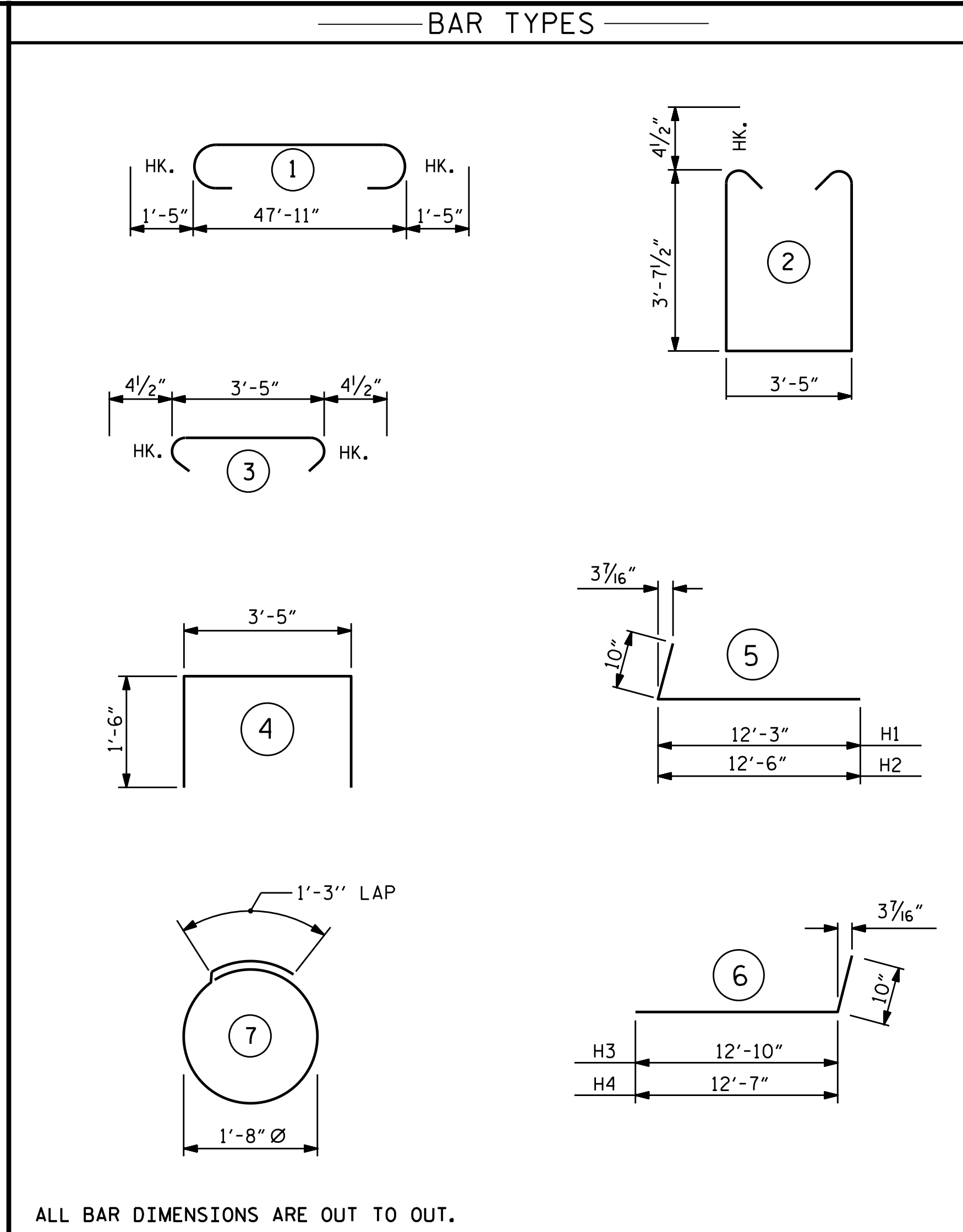
TEMPORARY DRAINAGE AT END BENT



PILE SPLICE DETAILS



SECTION A-A



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 1

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	8	10	1	50'-9"	1747
B2	28	4	STR	25'-3"	472
B3	4	4	STR	23'-4"	62
B4	1	4	STR	8'-3"	6
B5	1	4	STR	7'-10"	5
B6	1	4	STR	7'-5"	5
B7	1	4	STR	7'-0"	5
B8	12	4	STR	3'-5"	27
H1	20	5	5	13'-1"	273
H2	20	5	5	13'-4"	278
H3	19	5	6	13'-8"	271
H4	19	5	6	13'-5"	266
K1	24	4	STR	2'-10"	45
S1	55	4	2	11'-5"	419
S2	55	4	3	4'-2"	153
S3	24	4	7	6'-6"	104
U1	22	4	4	6'-5"	94
V1	80	4	STR	6'-6"	347
V2	34	4	STR	9'-7"	218
V3	34	4	STR	9'-1"	206

REINFORCING STEEL 5,003 LBS.
CLASS A CONCRETE BREAKDOWN

POUR #1 CAP, LOWER PART OF 34.0 C.Y. WINGS & COLLARS

POUR #2 UPPER PART OF WINGS 6.0 C.Y.

TOTAL CLASS A CONCRETE 40.0 C.Y.

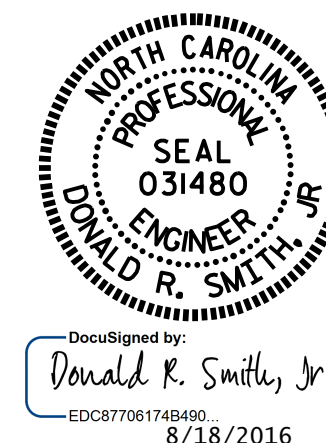
HP 12 X 53 STEEL PILES
No. 6 90 LIN. FT.

PROJECT NO. U-3440
CABARRUS COUNTY
STATION: 68+25.60 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT 1
(RIGHT LANE)



DocuSigned by:
Donald R. Smith, Jr.
EDC87706174B480
8/18/2016

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-27	
1			3			TOTAL SHEETS	37
2			4				

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : J.D. HAWK DATE : 4/2016
CHECKED BY : K.D. LAYNE DATE : 4/2016
DESIGN ENGINEER OF RECORD: T.R. PETERSON DATE : 6/2016