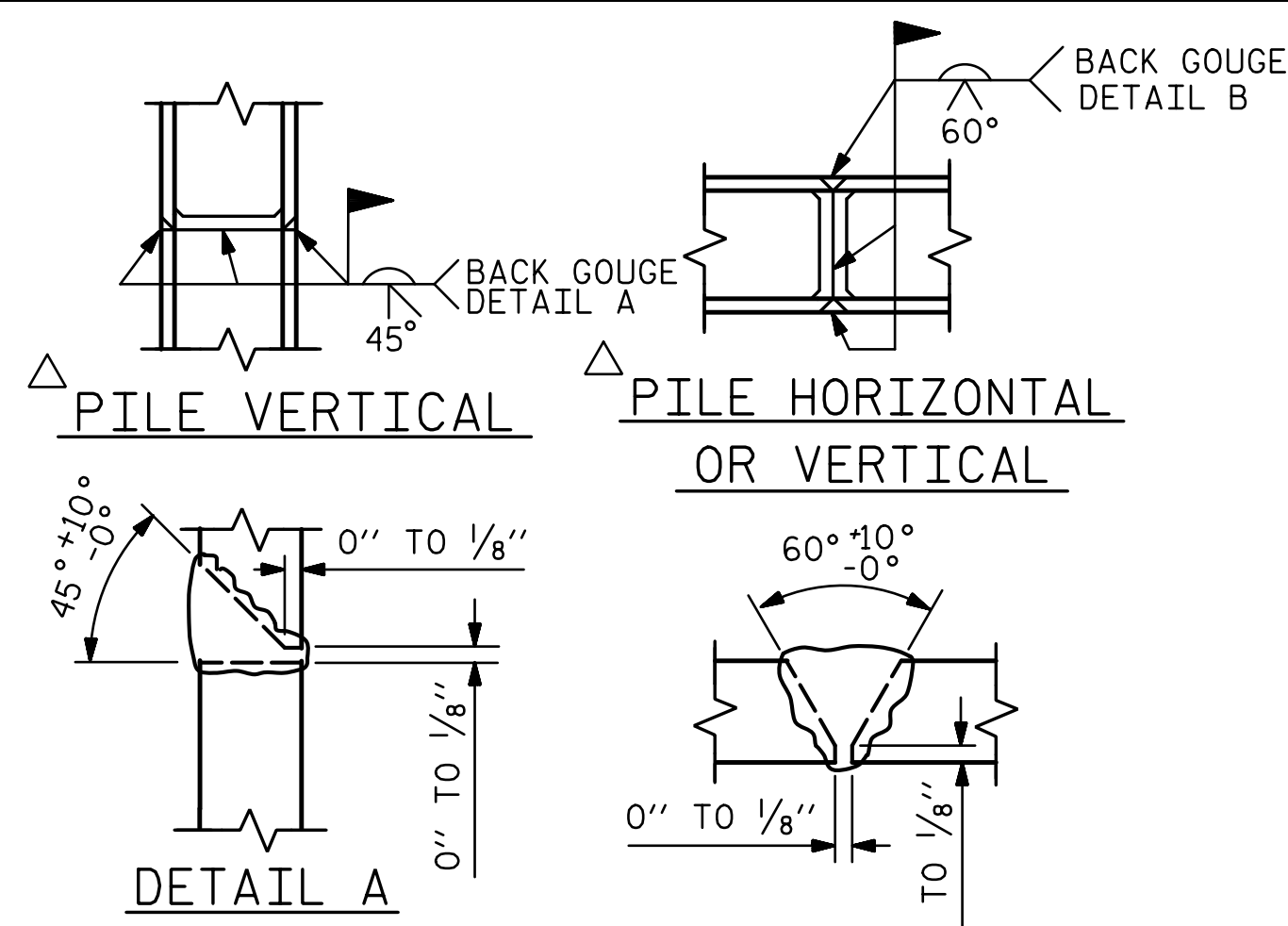


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

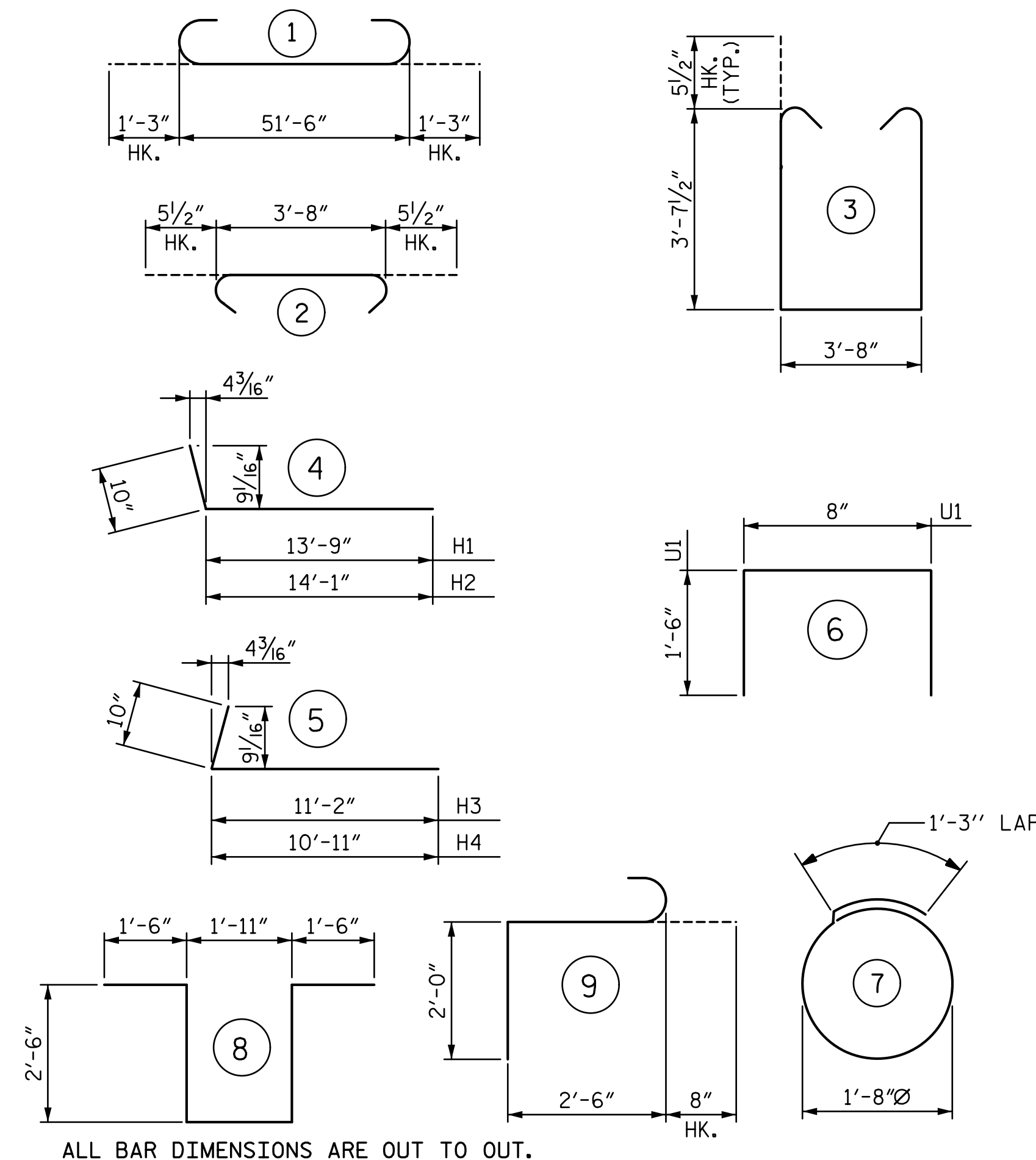
TEMPORARY DRAINAGE AT END BENT



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

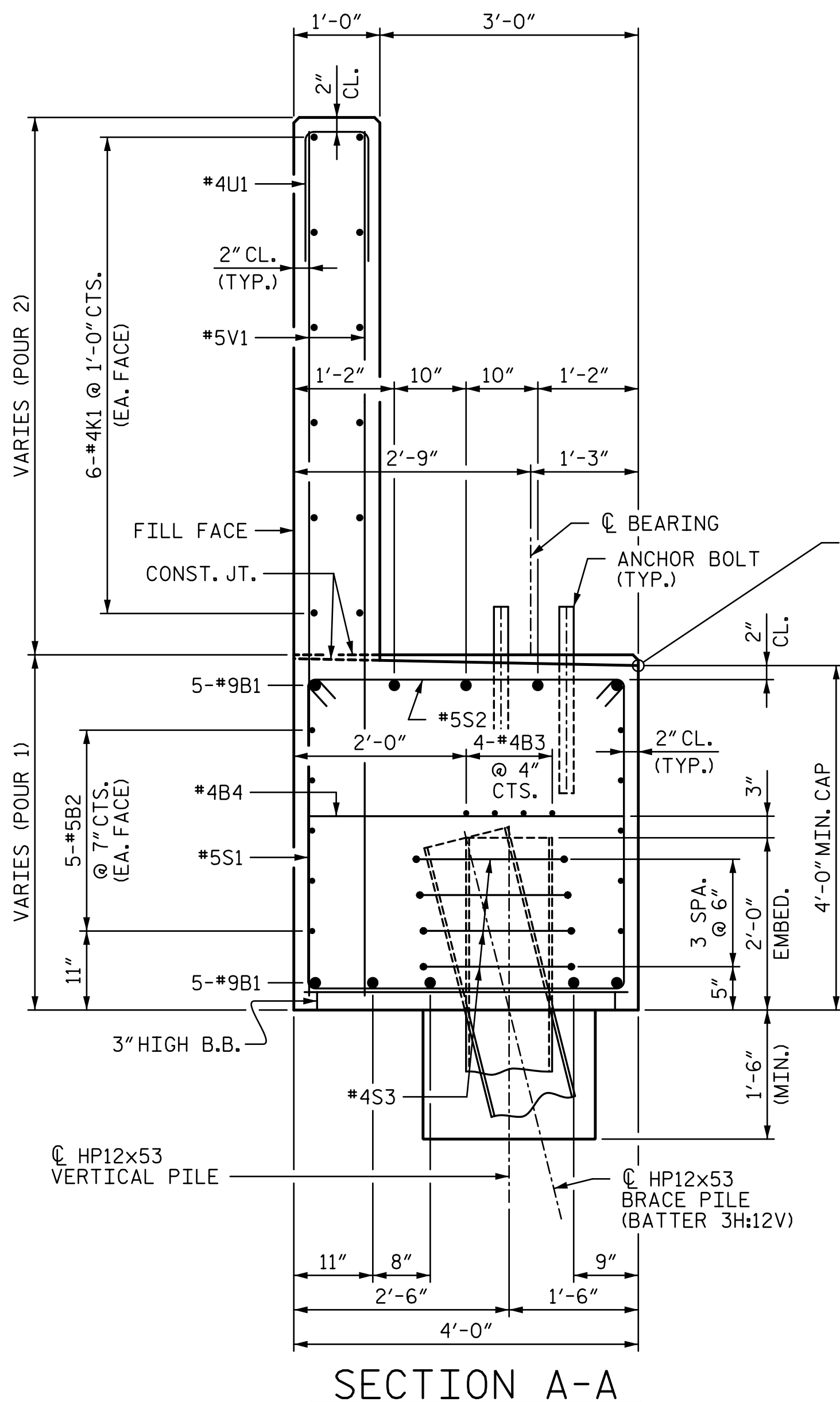
BILL OF MATERIAL

END BENT 2

BAR	NO	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	1	51'-0"	1836
B2	10	#5	STR	51'-8"	539
B3	8	#4	STR	27'-1"	145
B4	13	#4	STR	3'-8"	32
H1	13	#4	4	14'-7"	127
H2	13	#4	4	14'-11"	130
H3	23	#6	5	12'-0"	415
H4	23	#6	5	11'-9"	406
K1	12	#4	STR	27'-1"	217
K2	8	#4	STR	3'-0"	16
S1	73	#5	3	11'-10"	901
S2	73	#5	2	4'-7"	349
S3	28	#4	7	6'-6"	122
S4	3	#6	8	9'-11"	45
S5	3	#6	9	5'-2"	23
U1	46	#4	6	3'-8"	113
V1	92	#5	STR	9'-10"	944
V2	70	#5	STR	7'-0"	511
V3	60	#5	STR	6'-10"	428

QUANTITIES

REINFORCING STEEL	LBS.	7,299
CLASS A CONCRETE:		
POUR 1:		
CAP, COLLARS, & LOWER WING	C.Y.	36.0
POUR 2:		
BACKWALL & UPPER WING	C.Y.	19.0
TOTAL	C.Y.	55.0
HP 12x53 STEEL PILES	NO.	7
	LIN. FEET	490
PILE REDRIVES	EA.	3
PILE SETUP FOR HP 12x53 PILES	EA.	8



SECTION A-A

ELEVATIONS BETWEEN BRIDGE SEAT BUILDUPS ARE SHOWN AT THIS POINT

PROJECT NO. U-4751
NEW HANOVER COUNTY
 STATION: 35+12.05 -Y8RPDB-
 SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SEAL
 40317
 ENGINEER
 TONY R. LAWS, JR.
 6/30/2017

STV 100 years
 STV ENGINEERS, INC.
 900 West Trade St., Suite 715
 Charlotte, NC 28202
 NC License Number F-5991

REVISIONS

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

SHEET NO. S4-32
 TOTAL SHEETS 36

DRAWN BY: MBC DATE: 4-17
 CHECKED BY: TRL DATE: 4-17
 DESIGN ENGINEER OF RECORD: T. LAWS DATE: 5-17

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