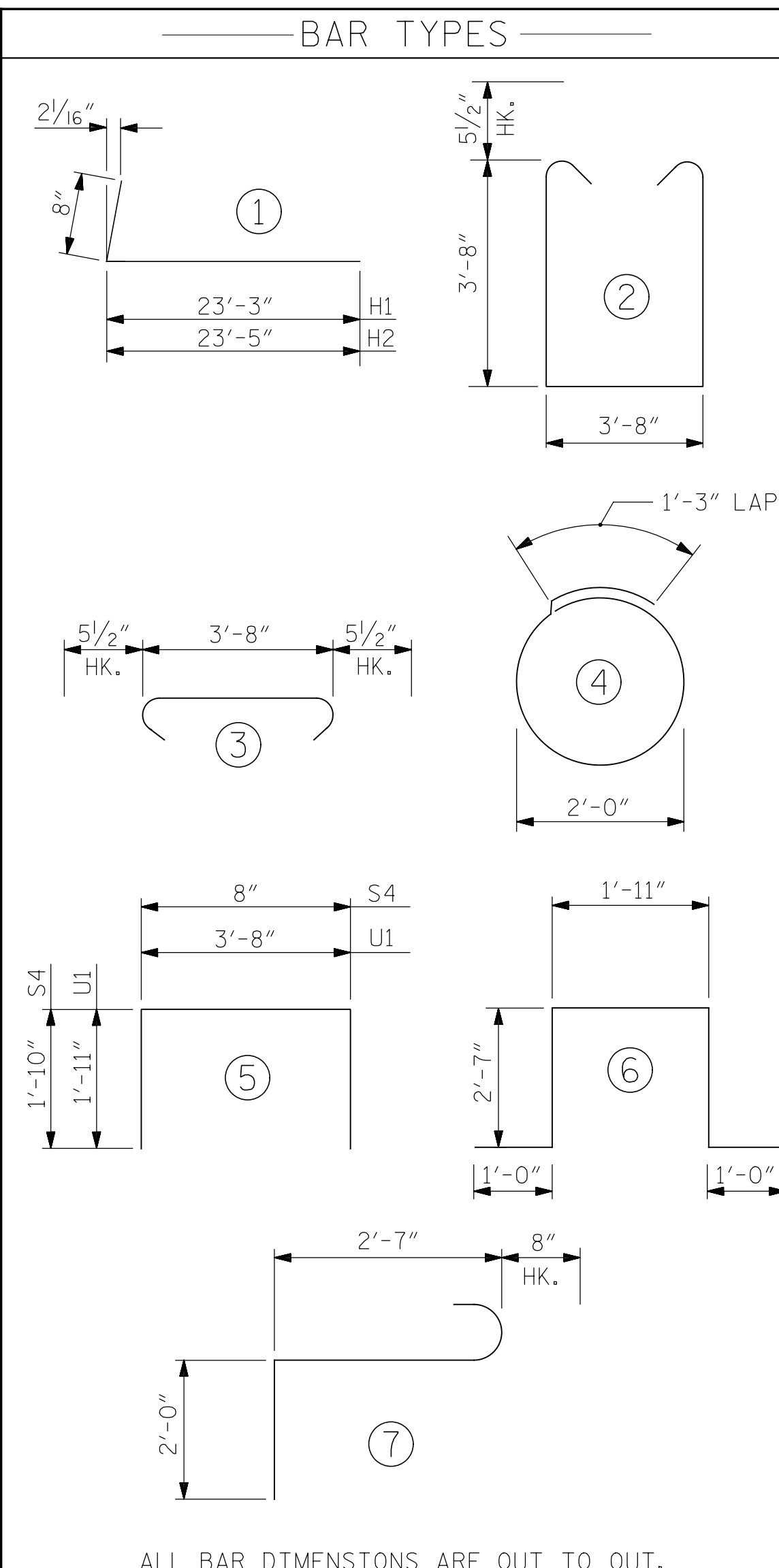


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

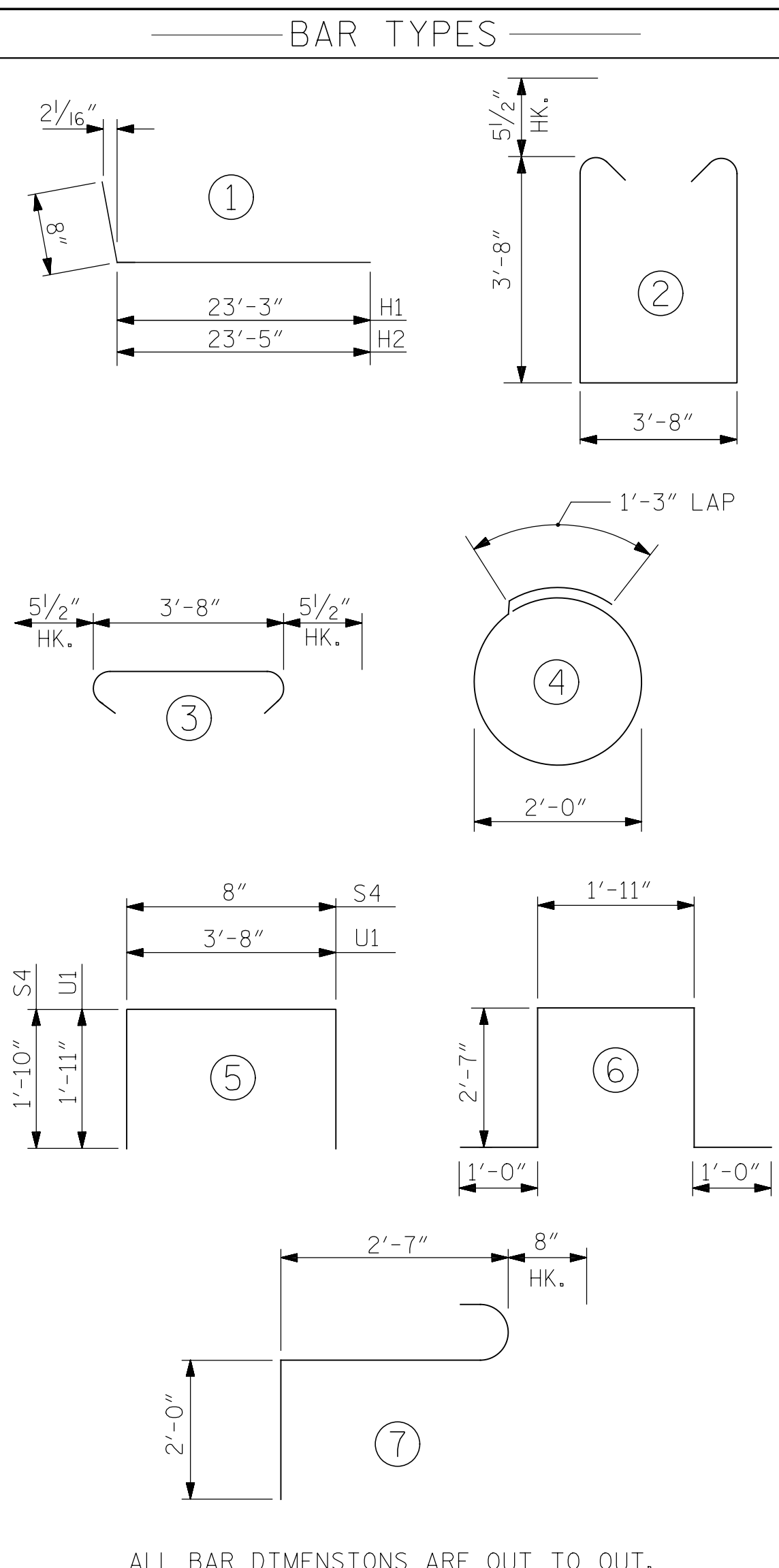
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



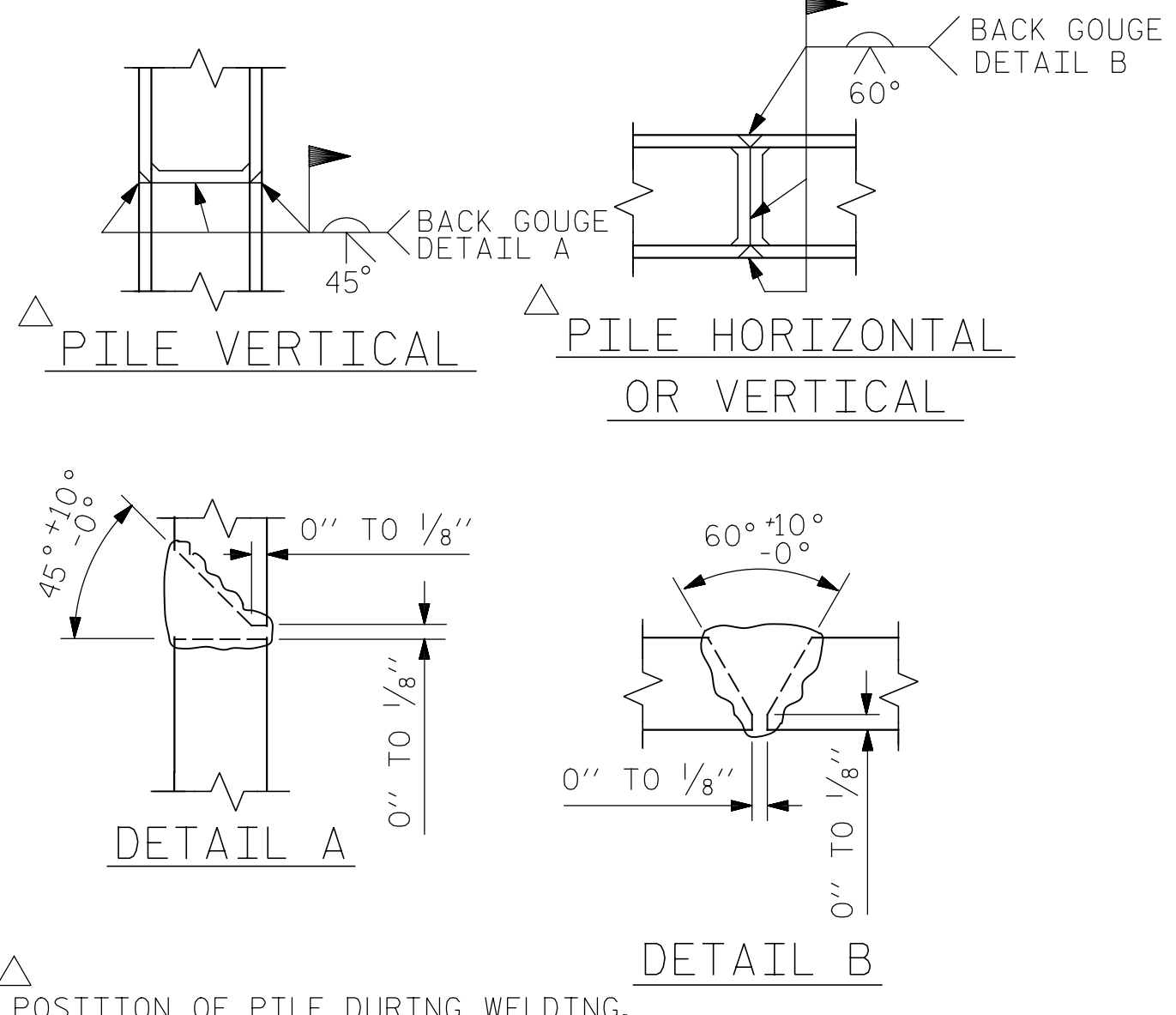
BILL OF MATERIAL FOR END BENT 2 - STAGE I

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	24	10	STR 34' - 4"	3,546
B2	12	5	STR 31' - 5"	393
B3	14	4	STR 3' - 8"	34
B4	8	4	STR 30' - 7"	163
B5	12	4	STR 24' - 2"	194
B6	6	4	STR 15' - 10"	63
H1	26	4	1 23' - 11"	415
H2	26	4	1 24' - 1"	418
K1	6	4	STR 2' - 8"	11
K2	28	4	STR 28' - 10"	539
S1	104	5	2 11' - 11"	1,293
S2	104	5	3 4' - 7"	497
S3	44	4	4 7' - 7"	223
S4	54	4	5 4' - 4"	156
S5	3	6	6 9' - 1"	41
S6	3	6	7 5' - 3"	24
U1	24	4	5 7' - 6"	120
V1	8	5	STR 12' - 1"	101
V2	46	5	STR 11' - 8"	560
V3	108	5	STR 10' - 5"	1,173
REINFORCING STEEL			LBS.	9,964
CLASS "A" CONCRETE BREAKDOWN				
POUR #1 - CAP, COLLARS & LOWER WING WALLS			C.Y.	44.7
POUR #2 - BACKWALL & UPPER WING WALLS			C.Y.	21.1
TOTAL CLASS "A" CONCRETE			C.Y.	65.8
HP 14X73 STEEL PILES			LIN. FT.	1260.00
NO. 12				
PDA TESTING			EA.	1
PILE REDRIVES			EA.	4
PILE DRIVING EQUIPMENT SETUP FOR HP 14X73 STEEL PILES			EA.	12

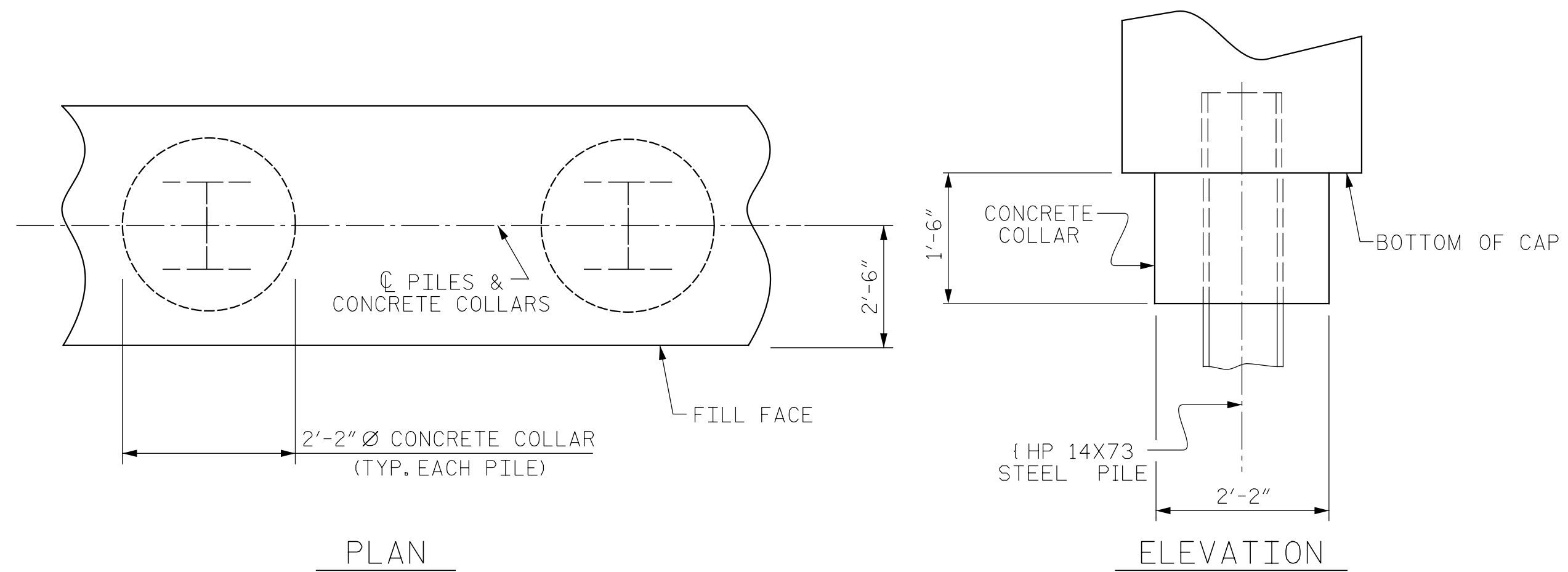


BILL OF MATERIAL FOR END BENT 2 - STAGE II

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B7	12	10	STR 25' - 3"	1,304
B8	6	5	STR 25' - 4"	159
B3	7	4	STR 3' - 8"	17
B9	4	4	STR 24' - 10"	66
B10	6	4	STR 4' - 5"	18
H1	26	4	1 23' - 11"	415
H2	26	4	1 24' - 1"	418
K3	6	4	STR 2' - 10"	11
K4	14	4	STR 22' - 2"	207
S1	47	5	2 11' - 11"	584
S2	47	5	3 4' - 7"	225
S3	24	4	4 7' - 7"	122
S4	22	4	5 4' - 4"	64
S5	3	6	6 9' - 1"	41
S6	3	6	7 5' - 3"	24
U1	12	4	5 7' - 6"	60
V4	8	5	STR 11' - 9"	98
V5	46	5	STR 11' - 3"	540
V6	44	5	STR 10' - 1"	463
REINFORCING STEEL			LBS.	4,836
CLASS "A" CONCRETE BREAKDOWN				
POUR #1 - CAP, COLLARS & LOWER WING WALLS			C.Y.	20.5
POUR #2 - BACKWALL & UPPER WING WALLS			C.Y.	13.2
TOTAL CLASS "A" CONCRETE			C.Y.	33.7
HP 14X73 STEEL PILES			LIN. FT.	735.00
NO. 7				
PDA TESTING			EA.	1
PILE REDRIVES			EA.	4
PILE DRIVING EQUIPMENT SETUP FOR HP 14X73 STEEL PILES			EA.	7



PILE SPLICE DETAILS



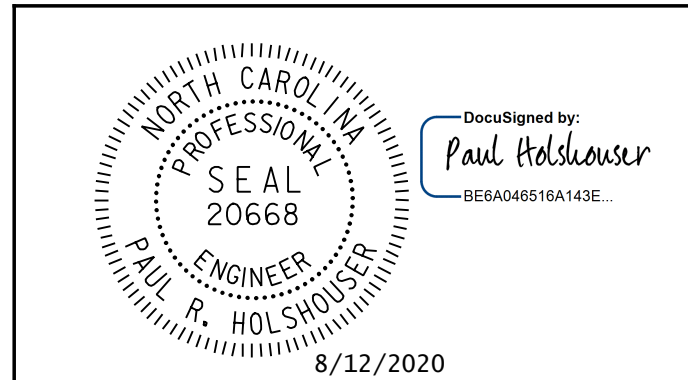
CORROSION PROTECTION FOR STEEL PILES DETAIL

PROJECT NO. 48793.3.1

BLADEN COUNTY

STATION: 118+81.78 -L-

SHEET 6 OF 6



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUBSTRUCTURE

END BENT 2

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

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 File: R:\Projects\19-77 Division 6 On Call\02 US 701 over Cape Fear River\NC\DOT\Structures\Drawings\Final\401\_099\_US\_701\_SWL\_EB2\_06.dgn

DRAWN BY : N.D'AIUTO DATE : 7-01-20  
 CHECKED BY : K. C. SAMUDRALA DATE : 7-09-20  
 DESIGN E.O.R. : P. R. HOLSHOUSER DATE : 7-23-20

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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 License #: P-0999

SHEET NO. S-99

TOTAL SHEETS 107