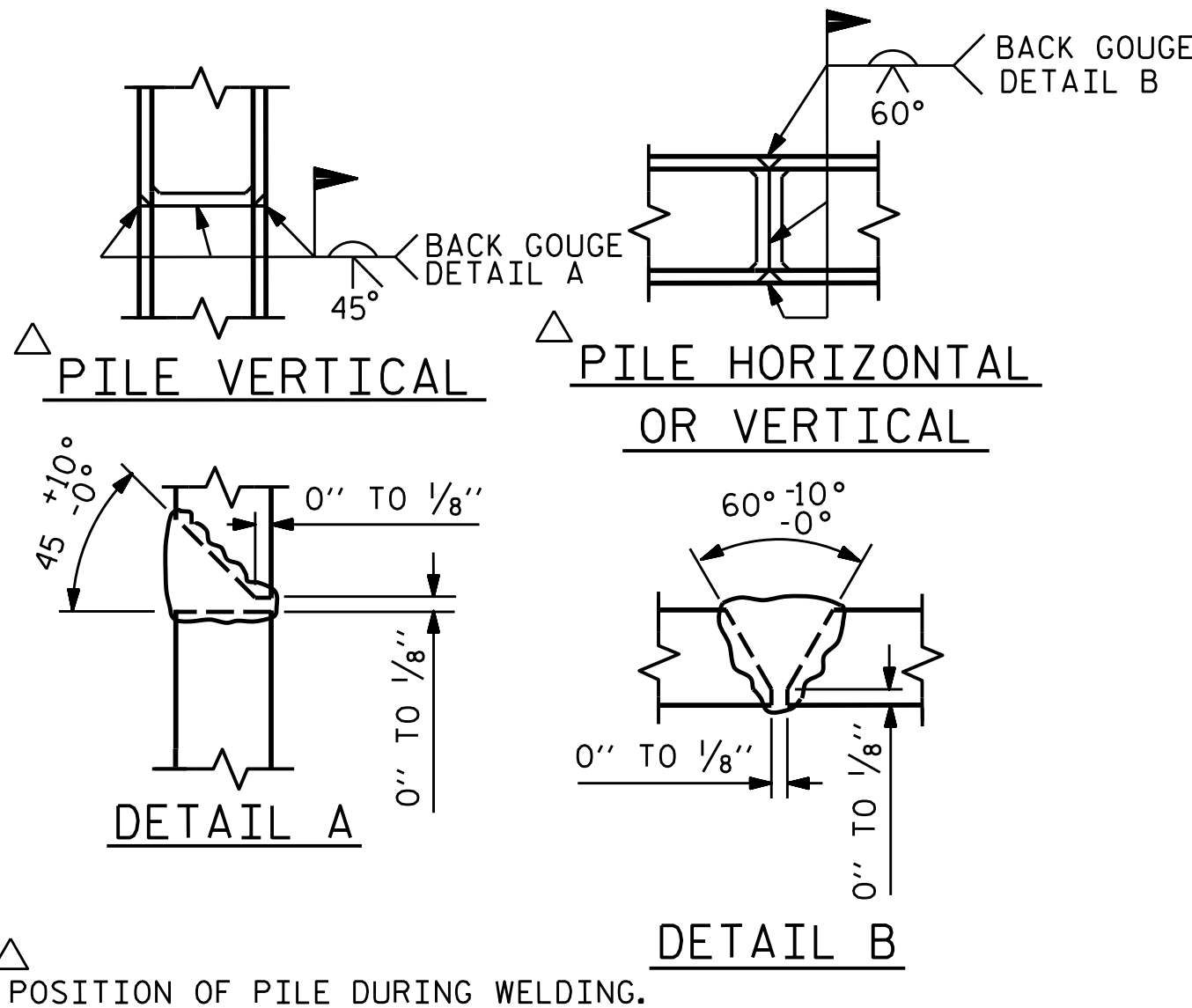


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

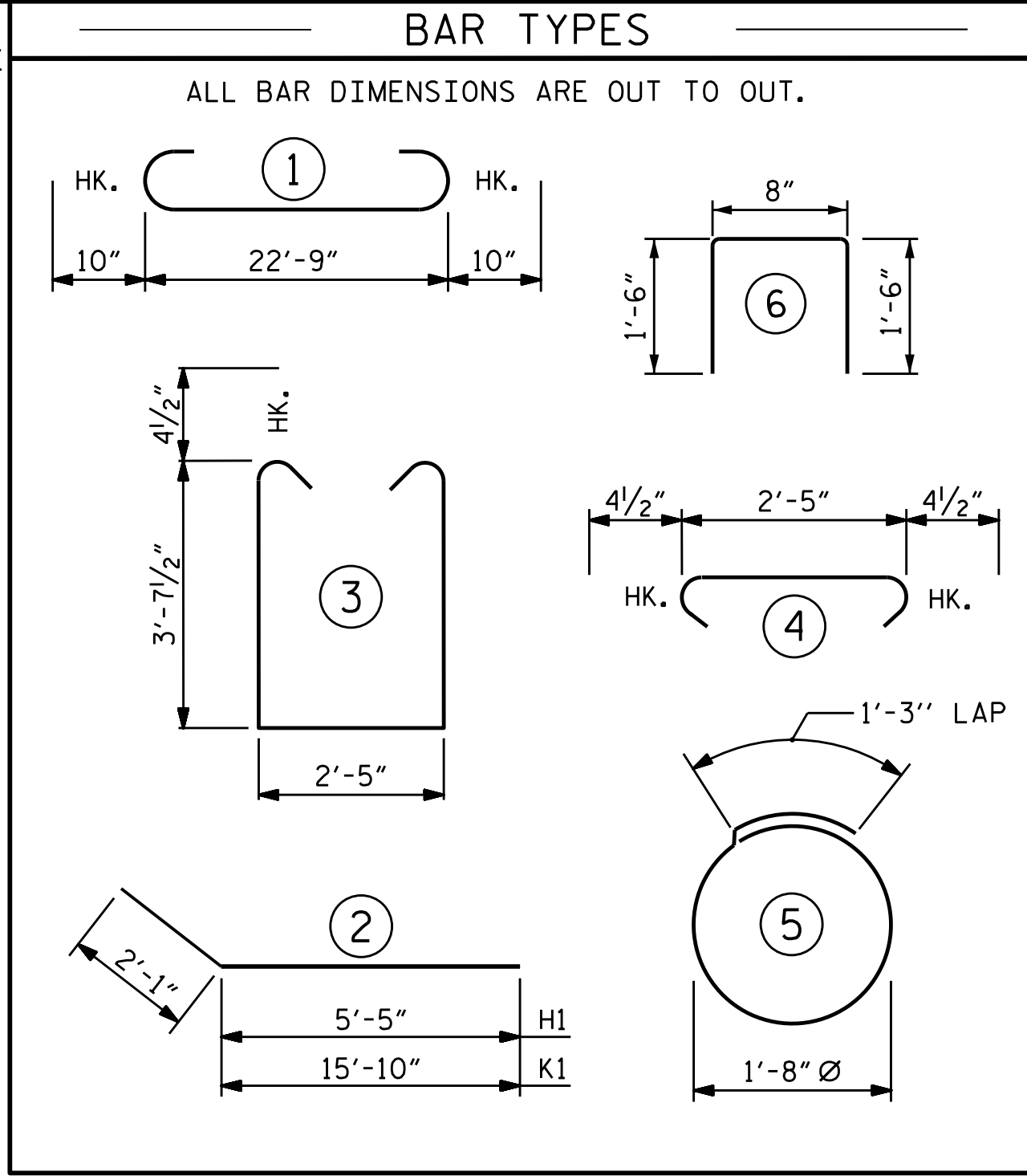
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

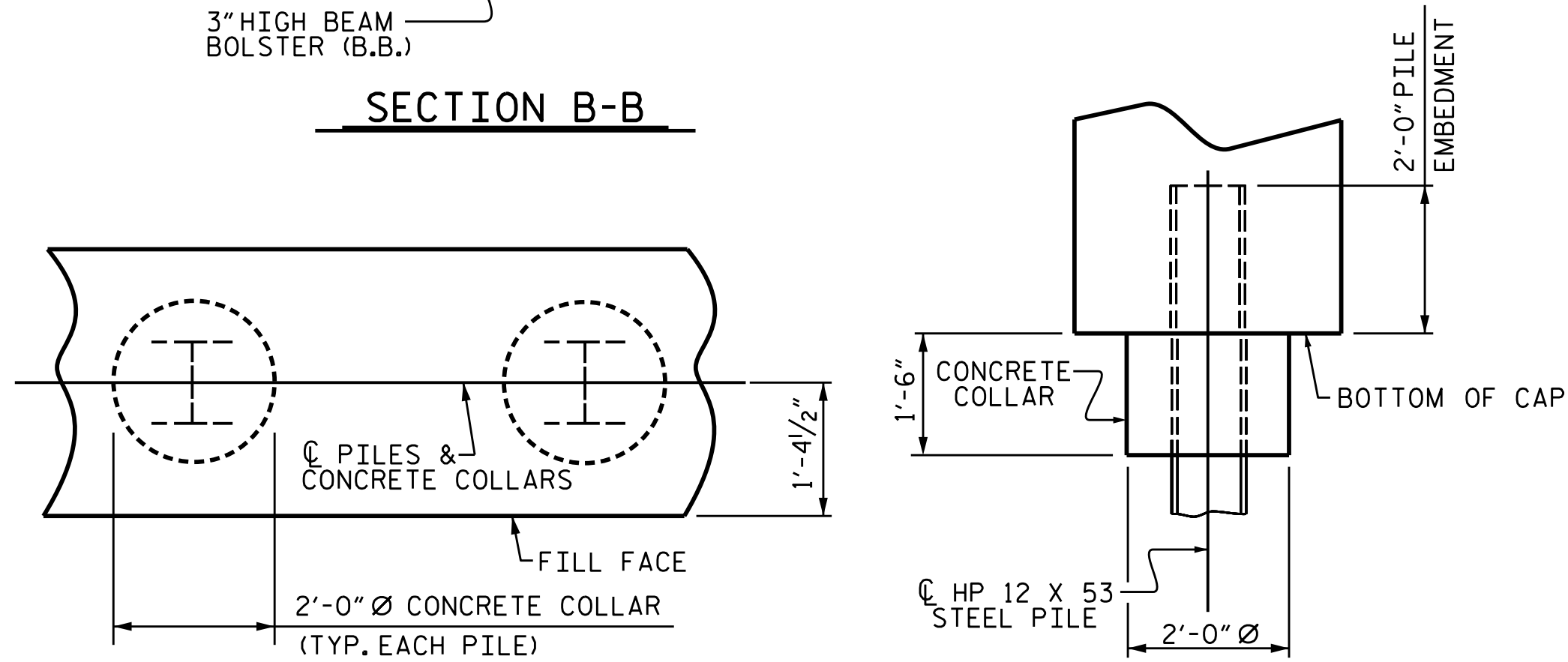
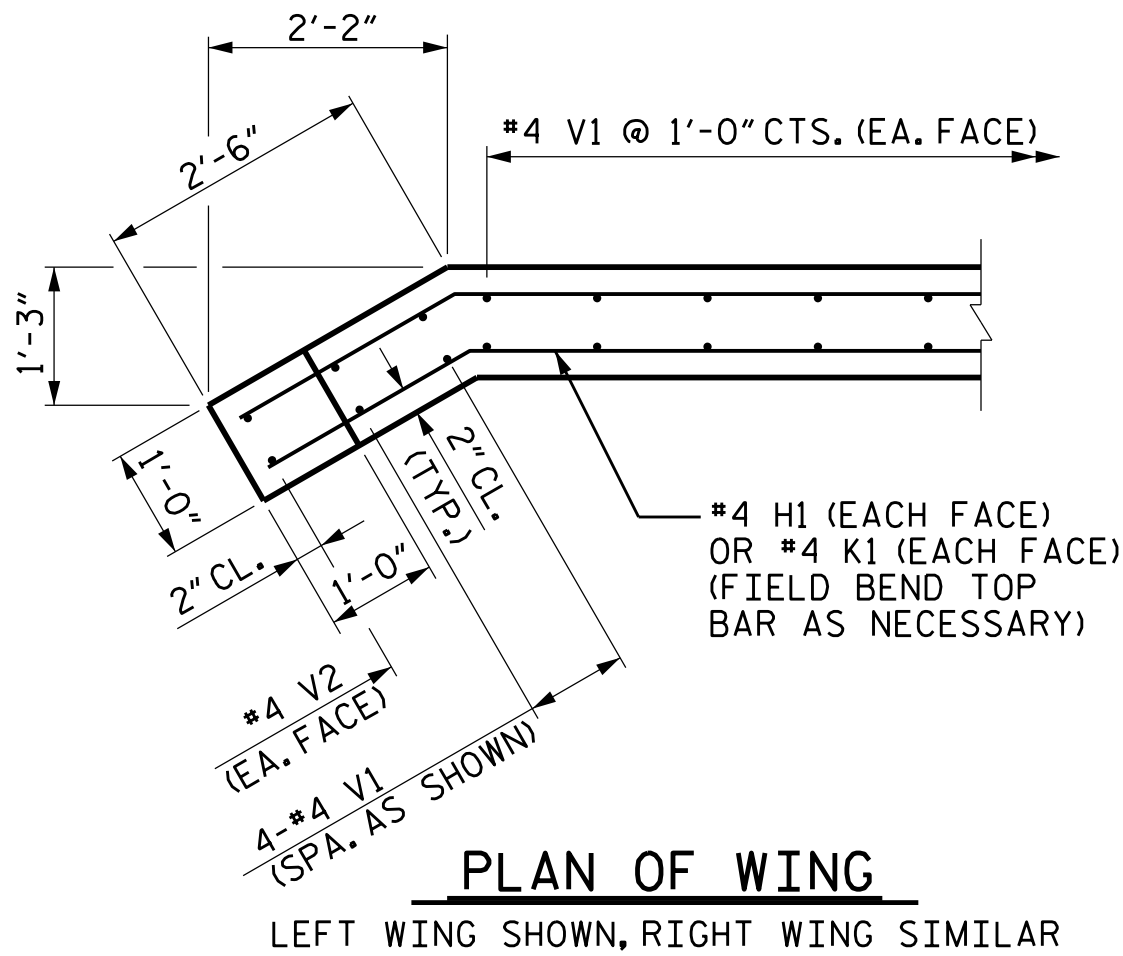
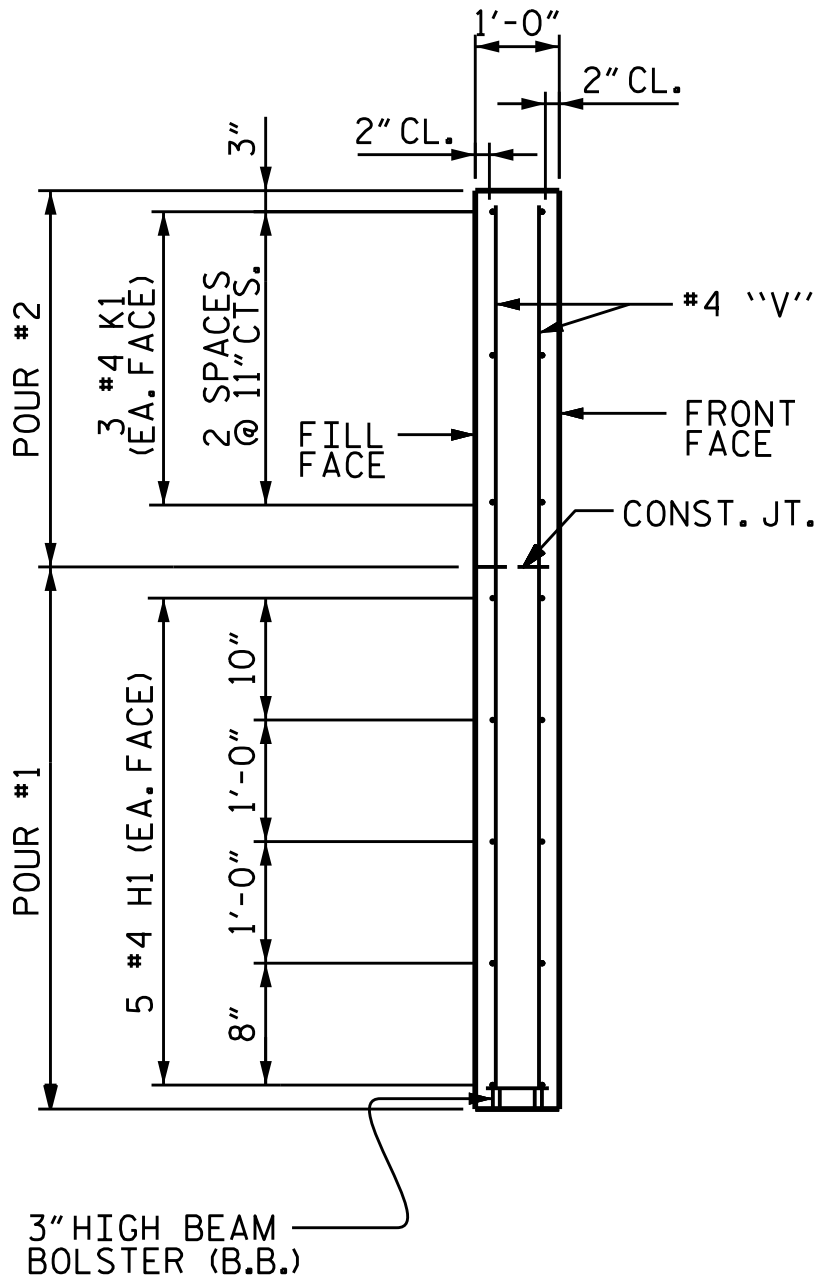
TEMPORARY DRAINAGE AT END BENT



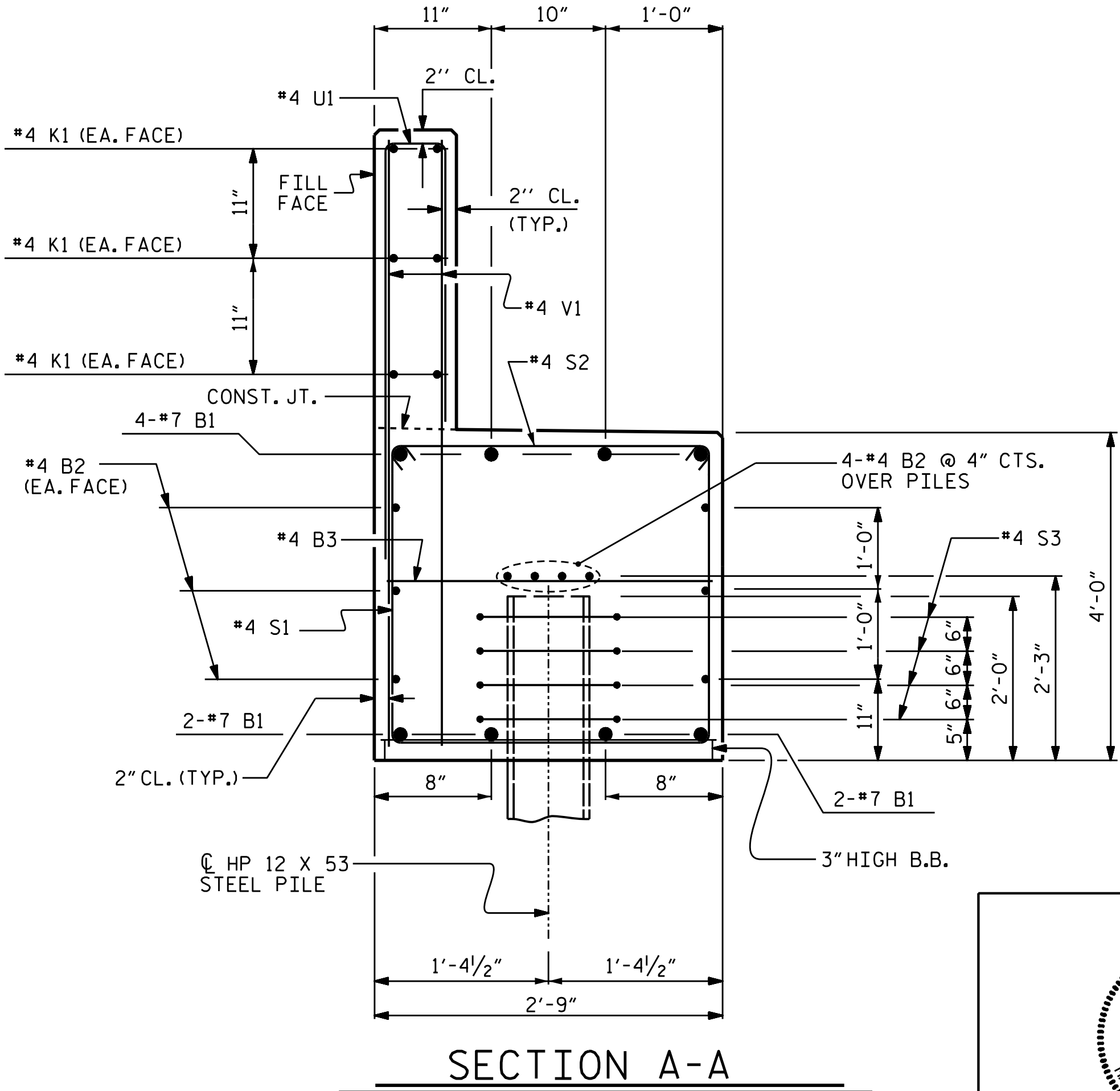
PILE SPLICE DETAILS



BILL OF MATERIAL						BILL OF MATERIAL					
END BENT 1						END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#7	1	24'-5"	399	B1	8	#7	1	24'-5"	399
B2	10	#4	STR	22'-11"	153	B2	10	#4	STR	22'-11"	153
B3	6	#4	STR	2'-5"	10	B3	6	#4	STR	2'-5"	10
H1	20	#4	2	7'-6"	100	H1	20	#4	2	7'-6"	100
K1	12	#4	2	17'-11"	144	K1	12	#4	2	17'-11"	144
S1	25	#4	3	10'-5"	174	S1	25	#4	3	10'-5"	177
S2	25	#4	4	3'-2"	53	S2	25	#4	4	3'-2"	53
S3	16	#4	5	6'-6"	69	S3	16	#4	5	6'-6"	69
U1	29	#4	6	3'-8"	71	U1	29	#4	6	3'-8"	71
V1	66	#4	STR.	5'-11"	261	V1	66	#4	STR.	5'-11"	261
V2	4	#4	STR.	5'-3"	14	V2	4	#4	STR.	5'-3"	14
REINFORCING STEEL					1,448 LBS.	REINFORCING STEEL					1,448 LBS.
CLASS A CONCRETE BREAKDOWN						CLASS A CONCRETE BREAKDOWN					
POUR #1 CAP, LOWER PART OF WINGS & COLLARS					11.8 C.Y.	POUR #1 CAP, LOWER PART OF WINGS & COLLARS					11.8 C.Y.
POUR #2 BACKWALL AND UPPER PART OF WINGS					2.9 C.Y.	POUR #2 BACKWALL AND UPPER PART OF WINGS					2.9 C.Y.
TOTAL CLASS A CONCRETE					14.7 C.Y.	TOTAL CLASS A CONCRETE					14.7 C.Y.
HP 12 X 53 STEEL PILES						HP 12 X 53 STEEL PILES					
NO: 4					220 LIN. FT.	NO: 4					180 LIN. FT.
PILE DRIVING EQUIPMENT SETUP FOR HP 12 x 53 STEEL PILES						PILE DRIVING EQUIPMENT SETUP FOR HP 12 x 53 STEEL PILES					
4 EACH						4 EACH					



CORROSION PROTECTION FOR STEEL PILES DETAIL

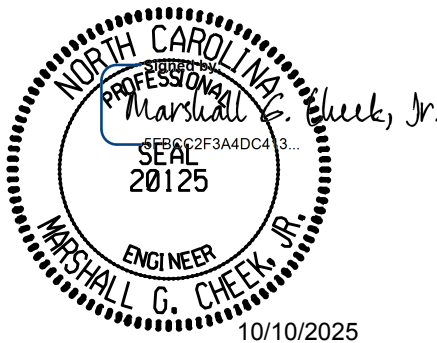


PROJECT NO. DF18314.2045324

HENDERSON COUNTY

STATION: 11+67.50 -L-

SHEET 3 OF 3



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

END BENT DETAILS

DRAWN BY : ZCS DATE : 6/25
CHECKED BY : MGC DATE : 8/25
DESIGN ENGINEER OF RECORD : ZCS DATE : 8/25

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

IGS ENGINEERS
201 W. MARION ST. STE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13
1			3			TOTAL SHEETS
2			4			13