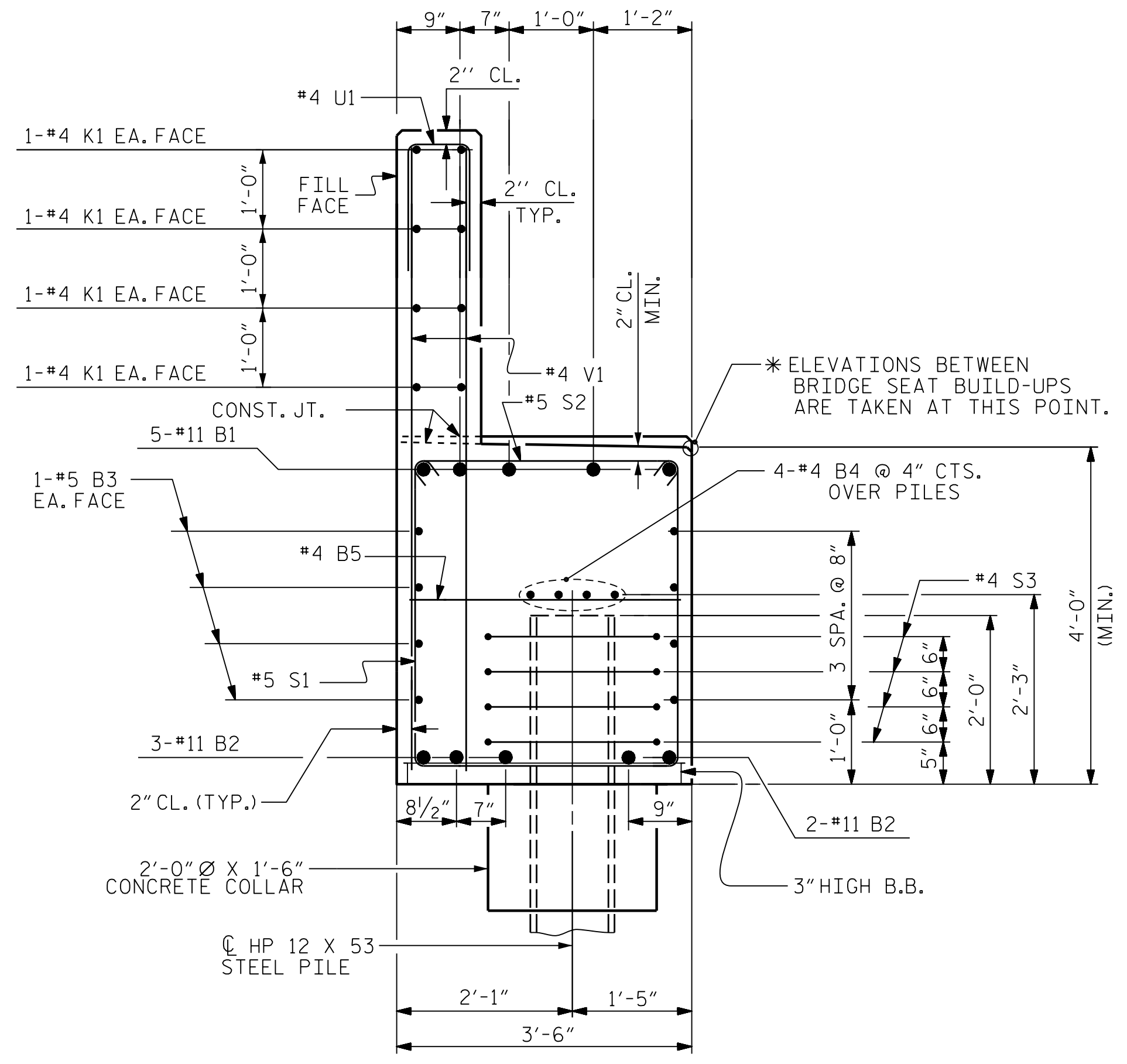
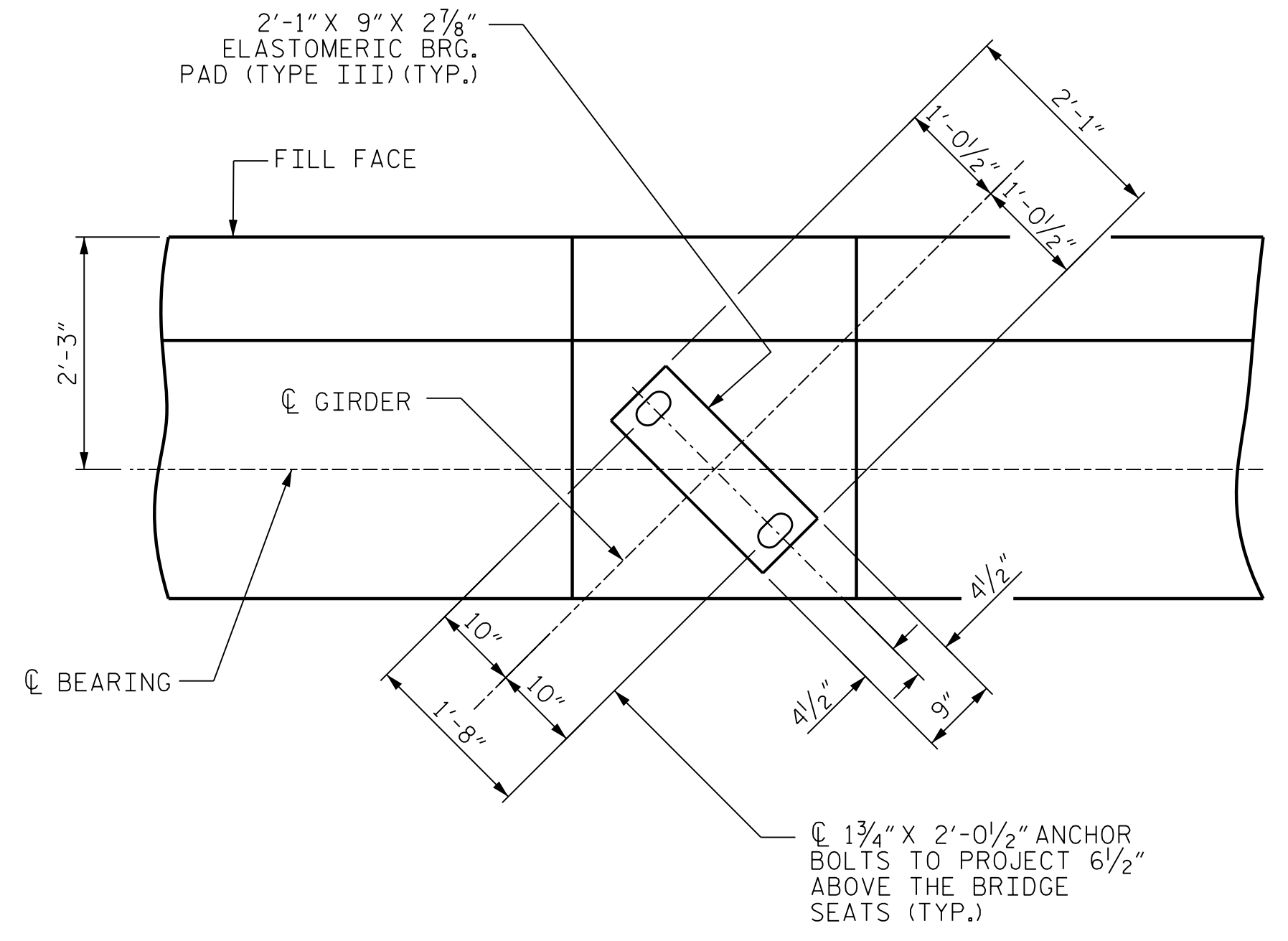


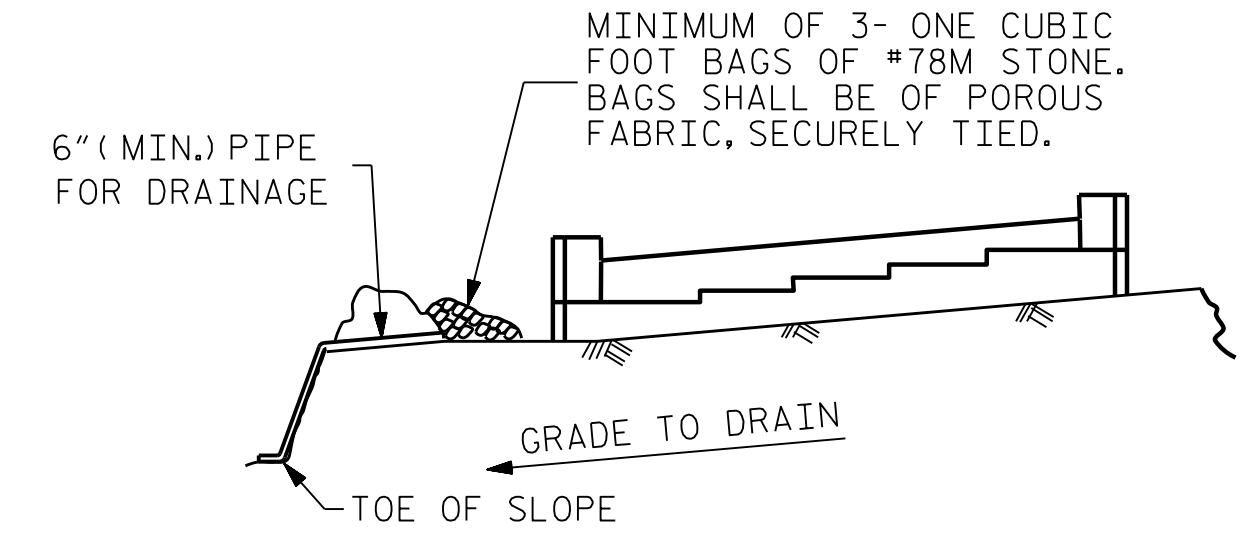
pw:\parrish-pw\entley.com\parrish-pw\Documents\Surface Transportation\NC001 BR\_840010 (BR-0047)\Project Design\Structures\Drawings\FINAL\400.073.BR0047\_SML\E2.036\_084010 4/8/2020 2:59:06 PM



**SECTION A-A**



**DETAIL "A"**  
(TYP. EA. GIRDER)

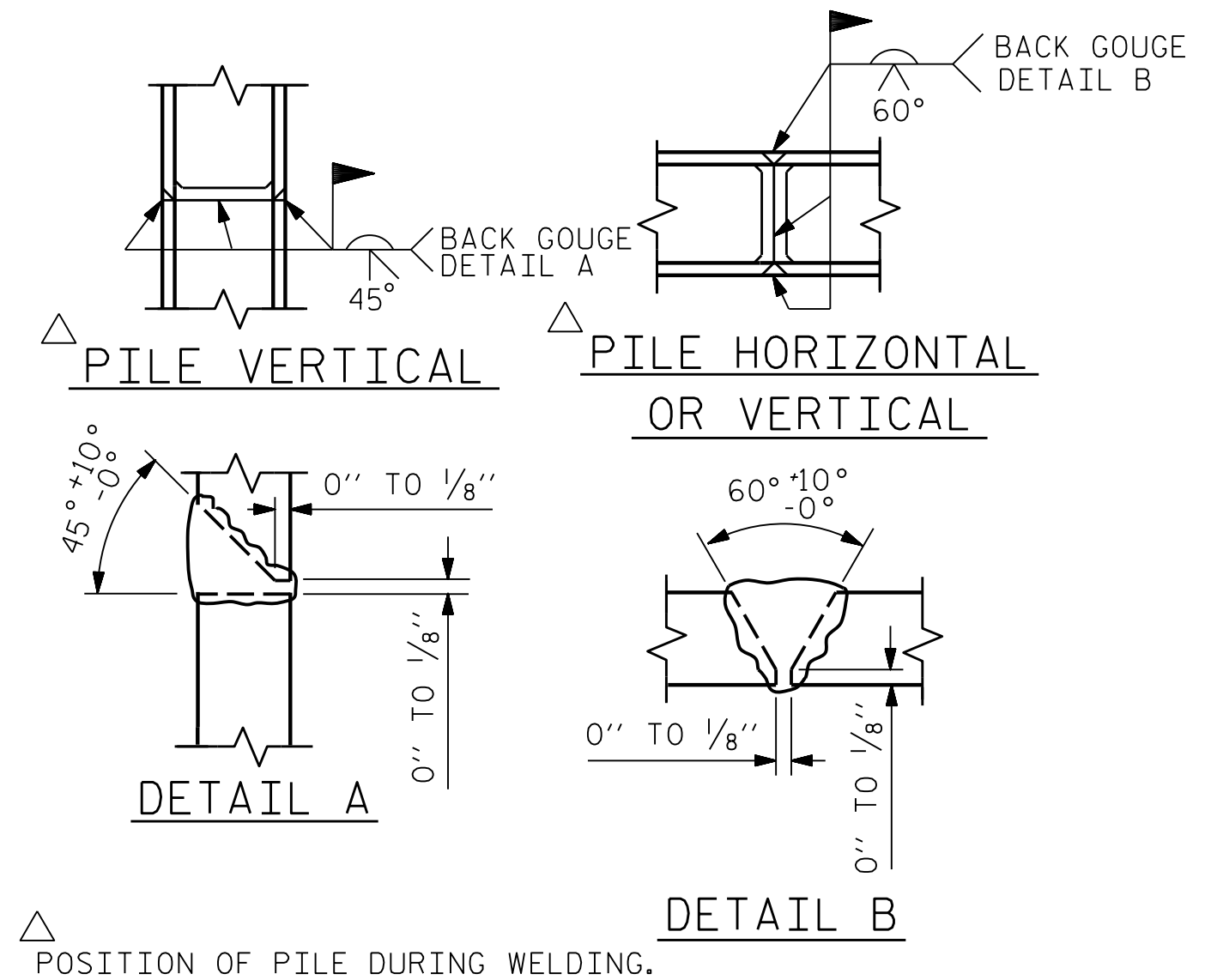


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

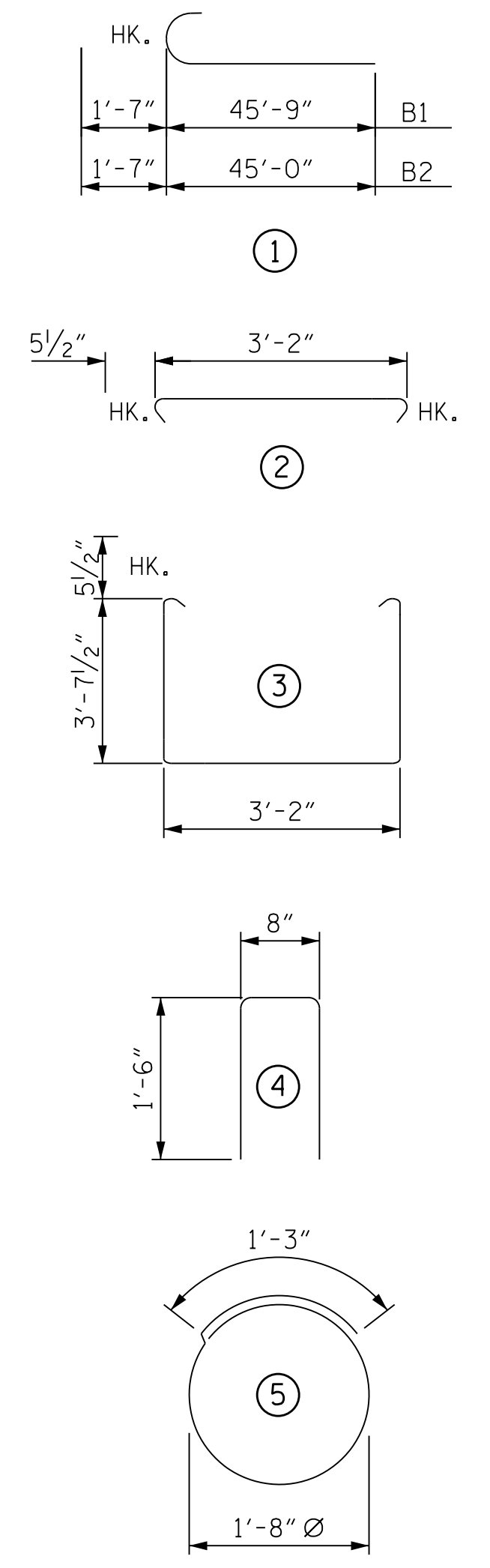
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

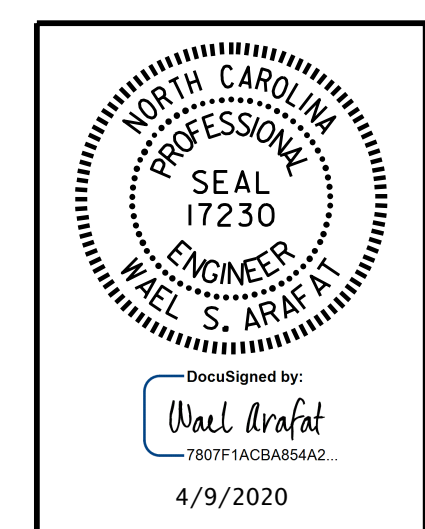
**TEMPORARY DRAINAGE AT END BENT**



**PILE SPLICE DETAILS**



BILL OF MATERIAL					
END BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#11	1	47'-4"	2515
B2	10	#11	1	46'-7"	2475
B3	16	#5	STR	43'-11"	733
B4	12	#4	STR	29'-11"	240
B5	21	#4	STR	3'-2"	44
H1	28	#5	6	8'-10"	258
H2	14	#5	7	9'-4"	136
H3	14	#5	7	9'-0"	131
K1	24	#4	STR	29'-11"	480
K2	2	#4	STR	5'-4"	7
K3	2	#4	STR	5'-6"	7
K4	4	#4	STR	4'-6"	12
S1	74	#5	3	11'-4"	875
S2	74	#5	2	4'-1"	315
S3	40	#5	5	6'-6"	271
U1	73	#4	4	3'-8"	179
V1	73	#4	STR	7'-0"	341
V2	27	#4	STR	8'-10"	159
V3	26	#4	STR	9'-1"	158
REINFORCING STEEL				9336	LBS.
CLASS A CONCRETE BREAKDOWN					
POUR 1 (CAP, LOWER PART OF WINGS & COLLARS)				47.3	C. Y.
POUR 2 (BACKWALL & UPPER PART OF WINGS)				14.3	C. Y.
CLASS A CONCRETE TOTAL				61.6	C. Y.
HP 12X53 STEEL PILES NO. 10				500	L.F.
PILE DRIVING EQUIPMENT SETUP FOR HP 12X53 STEEL PILES				10	EA.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**PARRISH & PARTNERS**  
 Parrish and Partners of North Carolina, PLLC  
 421 Fayetteville St., #1100  
 Raleigh, NC 27601  
 NC License #P-1212

PROJECT NO. BR-0047  
STOKES COUNTY  
 STATION: 18+27.98 -L-

SHEET 3 OF 3  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT No. 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-36
1			3			TOTAL SHEETS
2			4			39

DRAWN BY :	G.C. MORRIS	DATE :	10-19
CHECKED BY :	W.S. ARAFAT	DATE :	12-19
DESIGN ENGINEER OF RECORD:	O. PUIGCERVER	DATE :	11-19