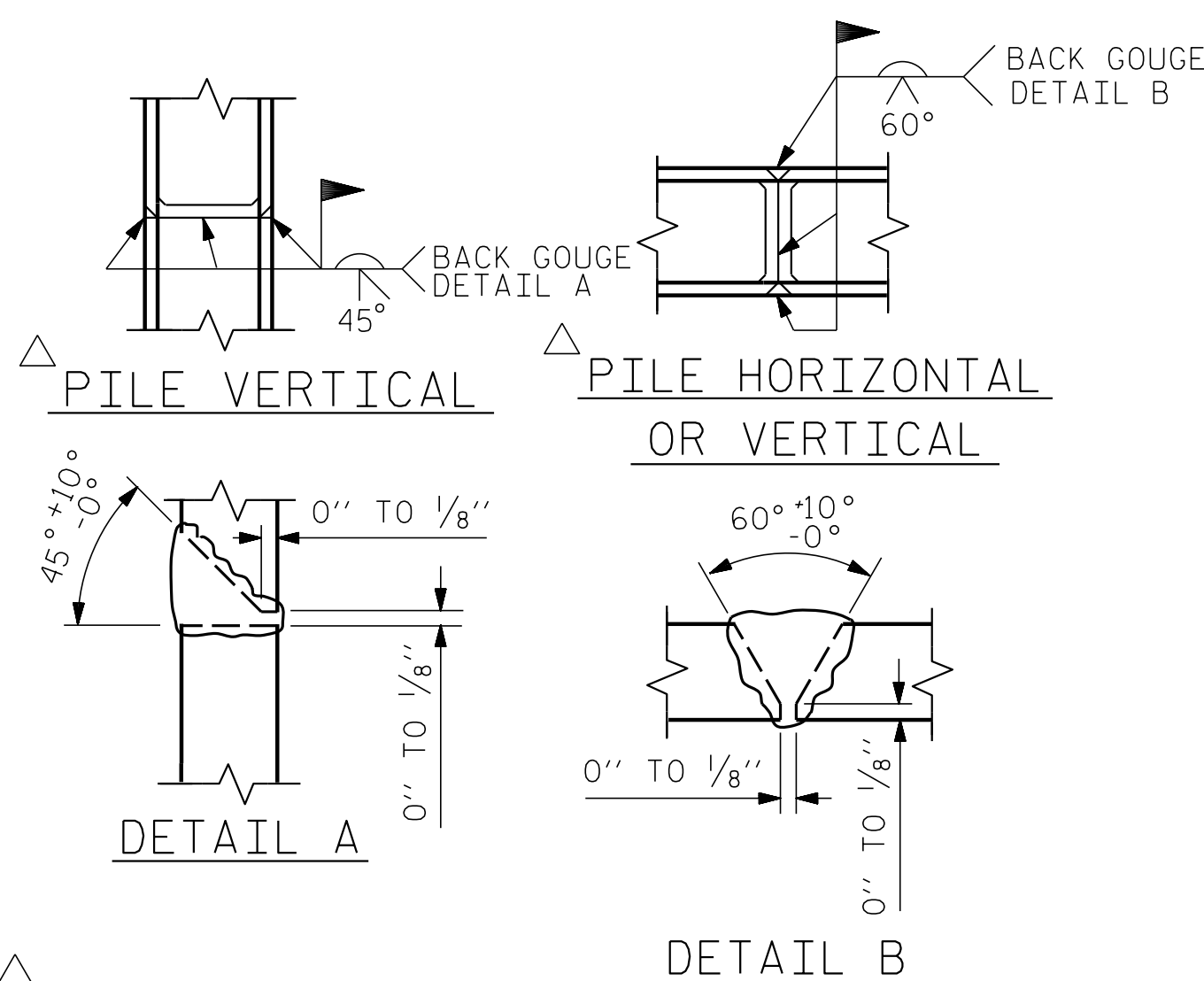


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

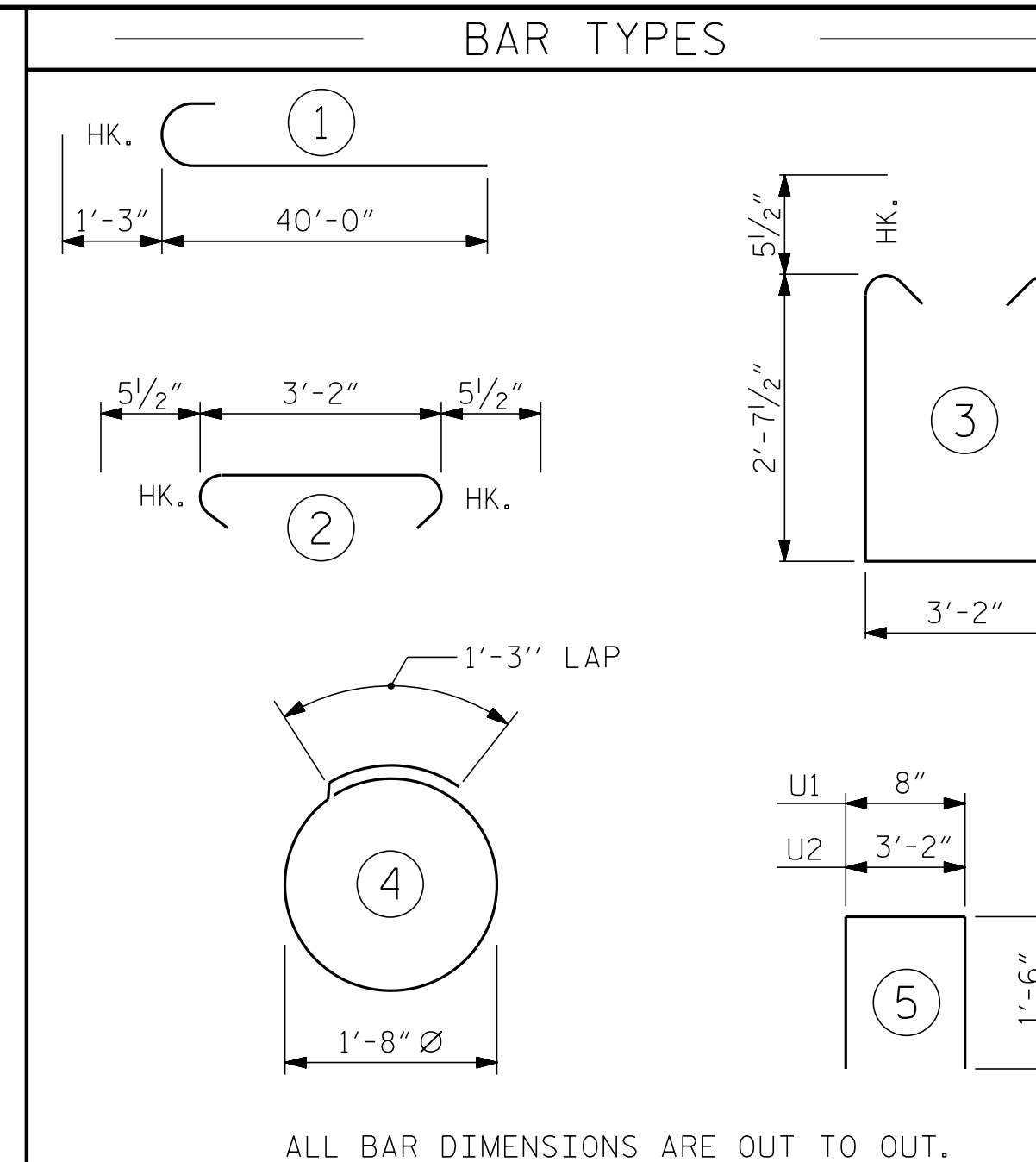
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT No. 2

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#9	1	41'-3"	2244
B2	4	#9	STR	49'-6"	673
B3	4	#9	STR	54'-6"	741
B4	20	#4	STR	25'-5"	340
B5	12	#5	STR	41'-1"	514
B6	30	#4	STR	3'-2"	63
B7	20	#4	STR	7'-6"	100
B8	32	#4	STR	3'-2"	68
K1	40	#4	STR	26'-6"	708
K2	12	#4	STR	23'-5"	188
K3	8	#4	STR	6'-10"	37
K4	16	#4	STR	5'-0"	53
K5	4	#4	STR	6'-10"	18
S1	192	#5	3	9'-4"	1869
S2	192	#5	2	4'-1"	818
S3	40	#4	4	6'-6"	174
U1	100	#4	5	3'-8"	245
U2	57	#4	5	6'-2"	235
V1	200	#5	STR	7'-2"	1495
V2	16	#5	STR	9'-9"	163
V3	32	#5	STR	8'-10"	295

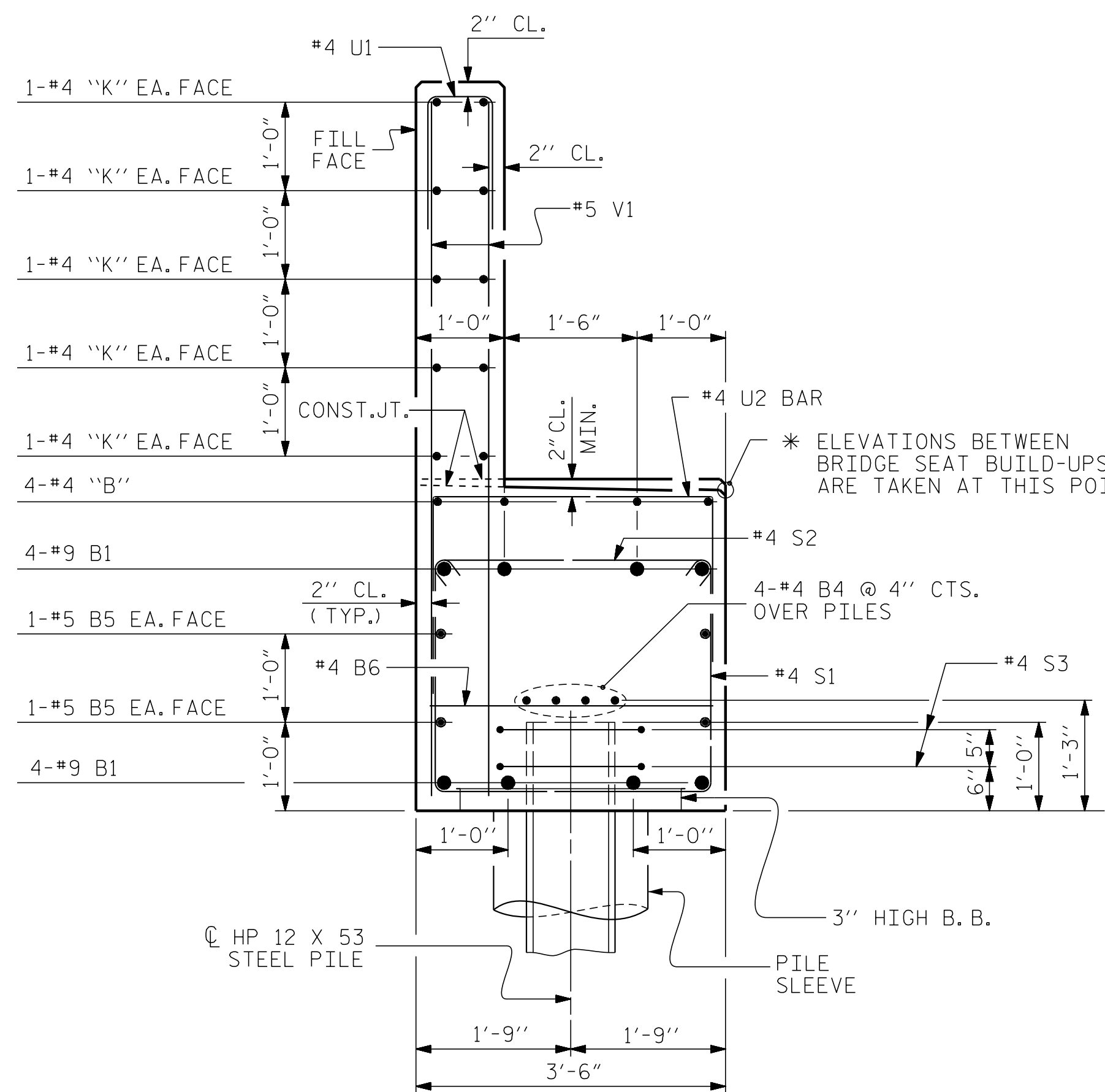
REINFORCING STEEL 11,041 LBS.

CLASS A CONCRETE BREAKDOWN

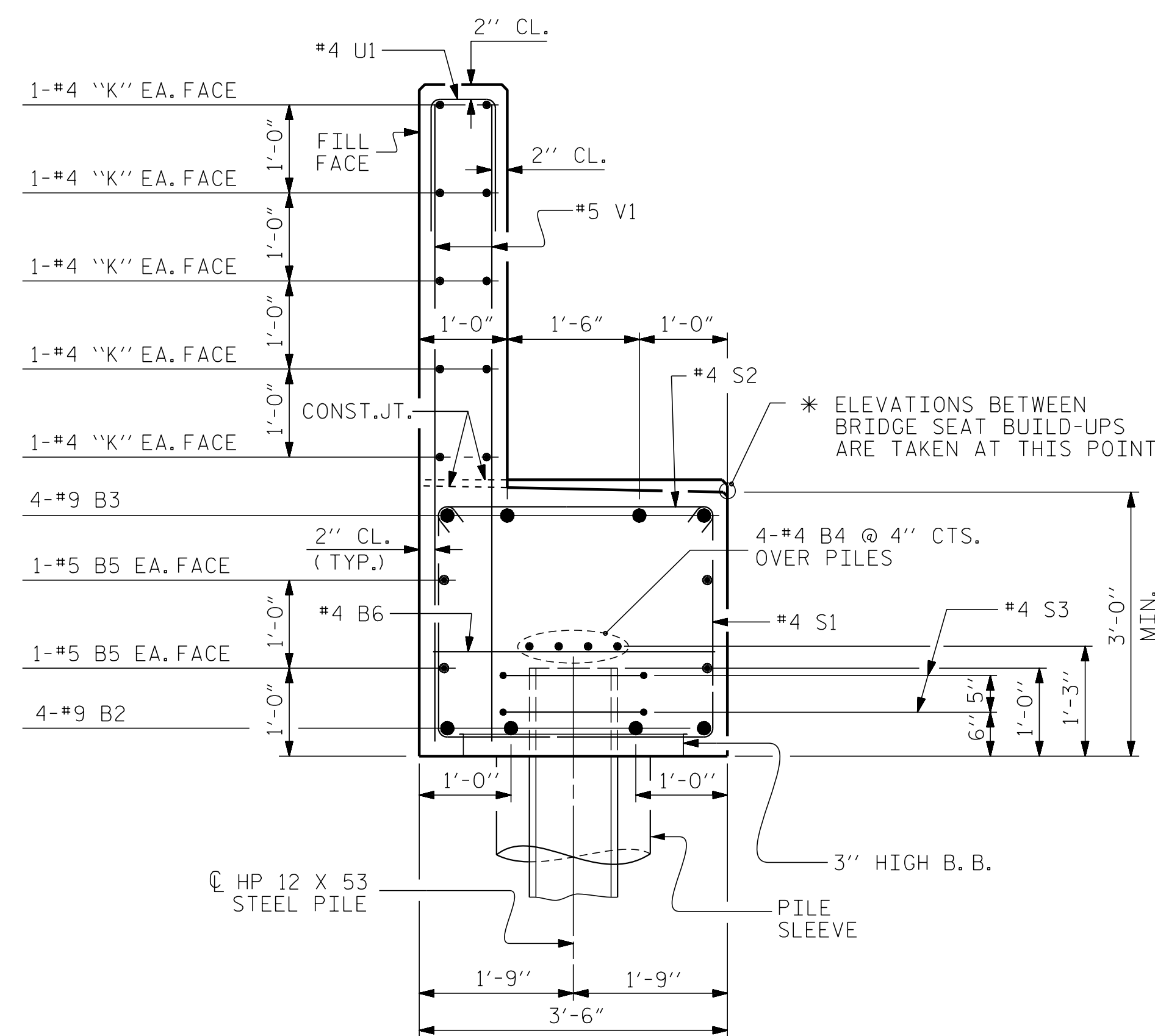
POUR #1	CAP AND LOWER PORTION OF EARWALL	32.1 C.Y.
POUR #2	UPPER PORTION OF EARWALL AND BACKWALL	13.5 C.Y.
POUR #3	CAP AND LOWER PORTION OF EARWALL	21.6 C.Y.
POUR #4	UPPER PORTION OF EARWALL AND BACKWALL	9.3 C.Y.
TOTAL CLASS A CONCRETE		76.5 C.Y.

HP 12 X 53 STEEL PILES
NO: 20 LIN. FT. = 1,145

PILE DRIVING EQUIPMENT SET UP FOR HP 12 X 53 STEEL PILES 20 EA.



SECTION B-B



SECTION A-A

PROJECT NO. W-5600
JOHNSTON COUNTY
STATION: 217+31.76 -L-

SHEET 4 OF 4

ENGINEER OF RECORD:
3/25/2019
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 37400
GREGORY M. OLLAND
ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE END BENT No. 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-23
1			3			TOTAL SHEETS
2			4			27

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DRAWN BY: D. HODGE DATE: 2/18
CHECKED BY: B.C. HUNT DATE: 2/18

P:\2017\1712101\W-5600_JUSTO.Structures\DGM\L-over -Y9-DGN (LEFT LANE\W-5600_Y9_EB (LEFT&RIGHT LANE)_WE_I.dgn 3/20/2019 8:32:40 AM