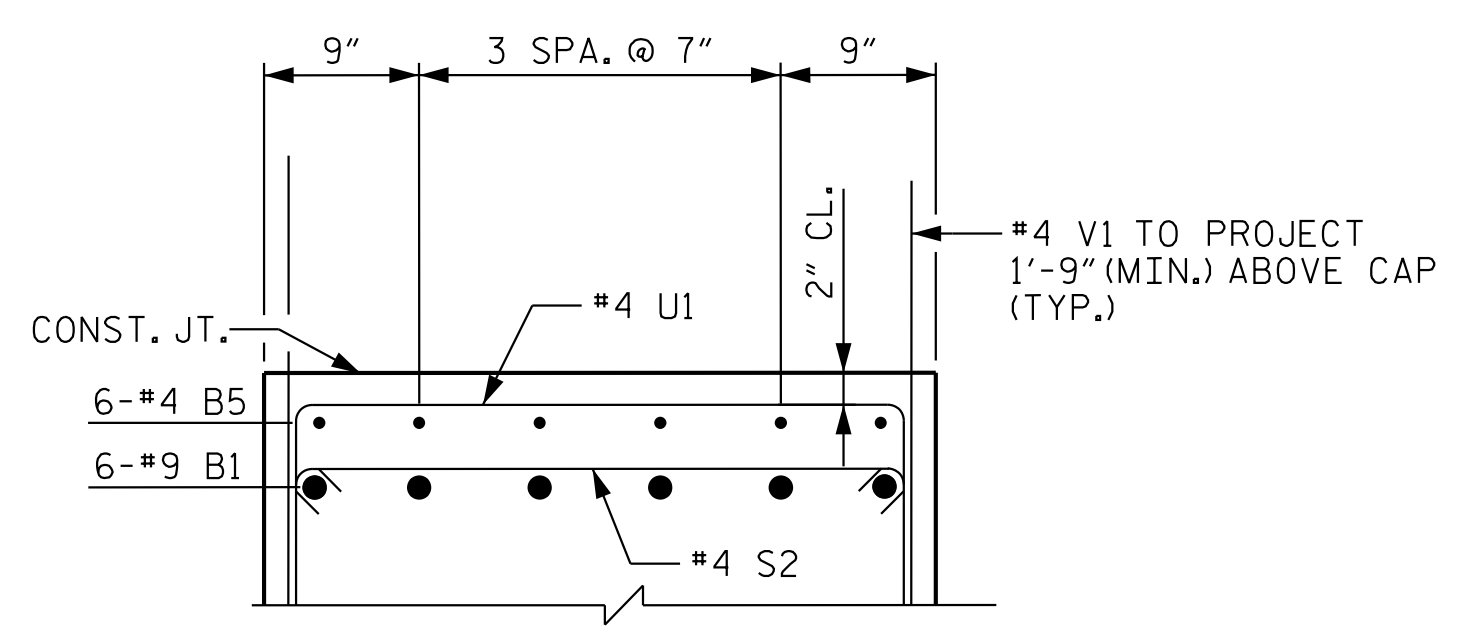
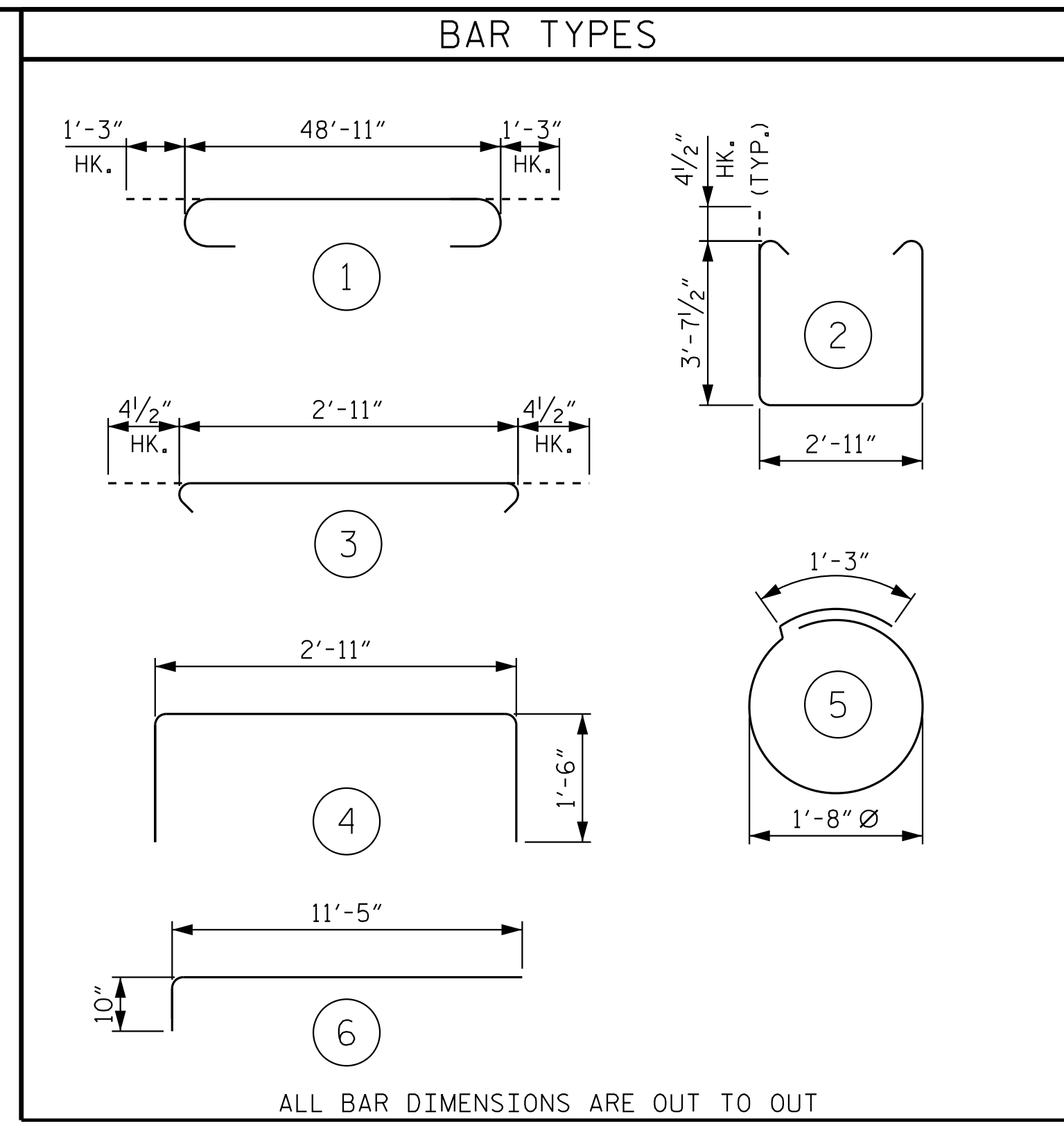


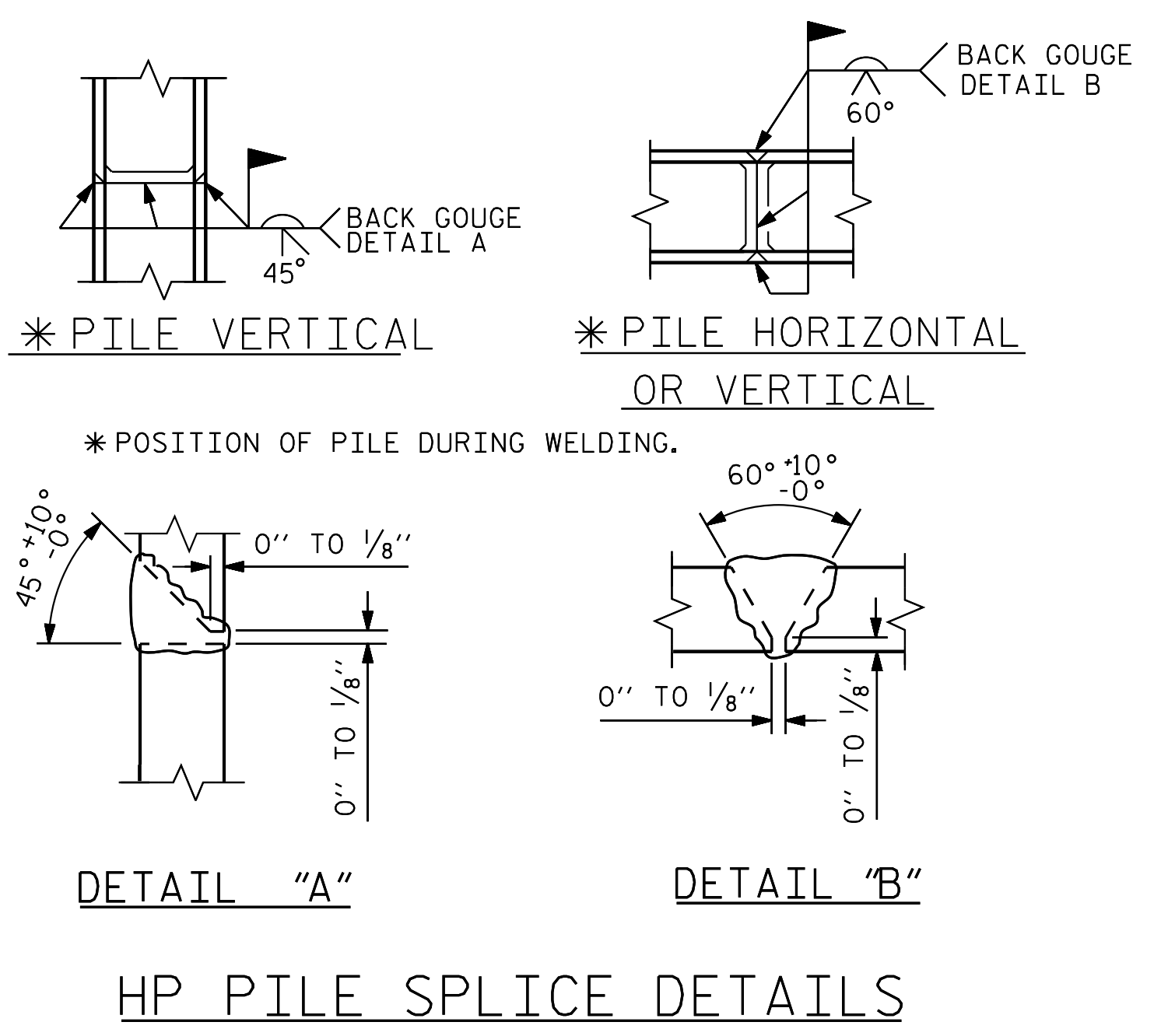
SECTION A-A
(FOR LOCATION OF SECTION, SEE SHEET 1 OF 3)



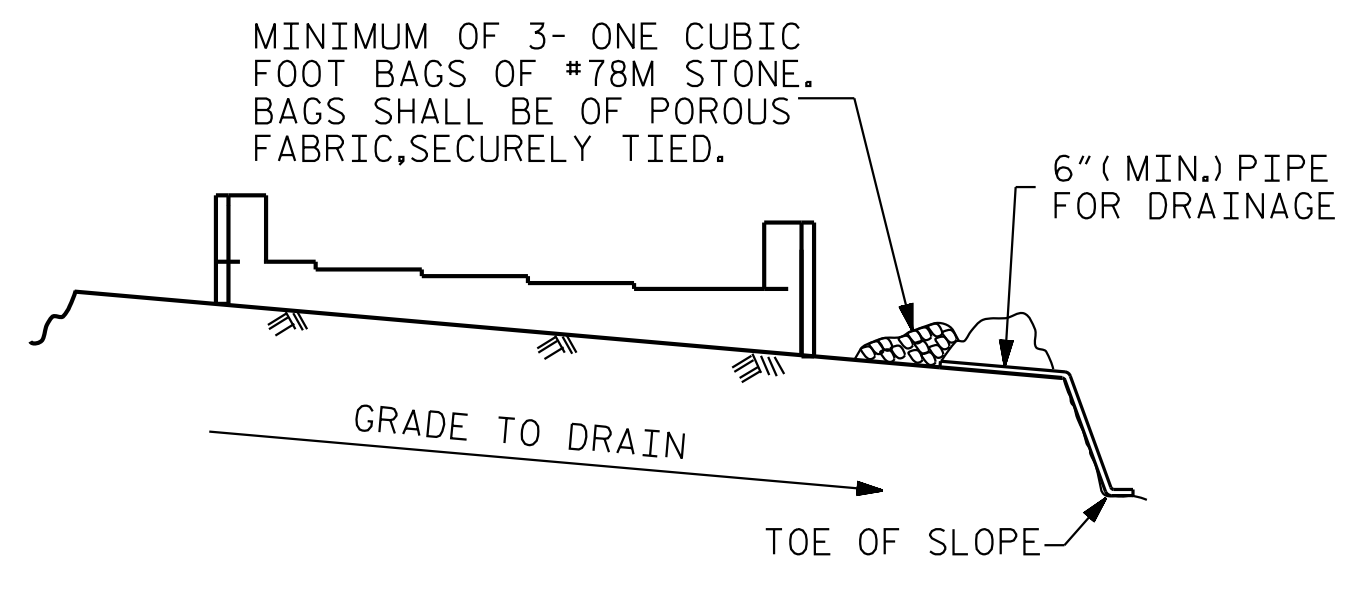
PARTIAL SECTION B-B
(FOR LOCATION OF SECTION, SEE SHEET 1 OF 3)



BILL OF MATERIAL					
END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	9	1	51'-5"	2,098
B2	6	5	STR	48'-11"	306
B3	8	4	STR	25'-8"	137
B4	13	4	STR	2'-11"	25
B5	18	4	STR	8'-0"	96
B6	6	4	STR	6'-7"	26
B7	6	4	STR	11'-0"	44
H1	70	5	6	12'-3"	894
K1	36	4	STR	2'-7"	62
S1	57	4	2	10'-11"	416
S2	57	4	3	3'-8"	140
S3	24	4	5	6'-6"	104
U1	31	4	4	5'-11"	123
V1	76	4	STR	6'-1"	309
V2	30	4	STR	8'-2"	164
V3	30	4	STR	8'-7"	172
REINFORCING STEEL					5,116 LBS.
CLASS A CONCRETE BREAKDOWN					
POUR #1 (CAP, LOWER WING WALLS, & COLLARS)					29.6 C.Y.
POUR #2 (UPPER WING WALLS)					4.5 C.Y.
TOTAL CLASS A CONCRETE					34.1 C.Y.
HP 12x53 STEEL PILES					
NO. 6					330 LIN. FT.
PILE REDRIVES					3 EA.
PILE DRIVING EQUIPMENT SET UP FOR HP 12x53 STEEL PILES					6 EACH



HP PILE SPLICE DETAILS



MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

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

PROJECT NO. B-5534
DUPLIN COUNTY
 STATION: 21+68.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 END BENT 2
 SECTION AND DETAILS

Kimley»Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601-1772
 Phone (919) 677-2000
 NC LICENSE # F-0102

DocuSigned by:
Patrick D. Cooksey
 4/2/2020

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-31
1			3			TOTAL SHEETS
2			4			34

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

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DRAWN BY: D. D. LOWERY DATE: 02/2020
 CHECKED BY: J. C. WILSON DATE: 02/2020
 DESIGN ENGINEER OF RECORD: P. D. COOKSEY DATE: 02/2020