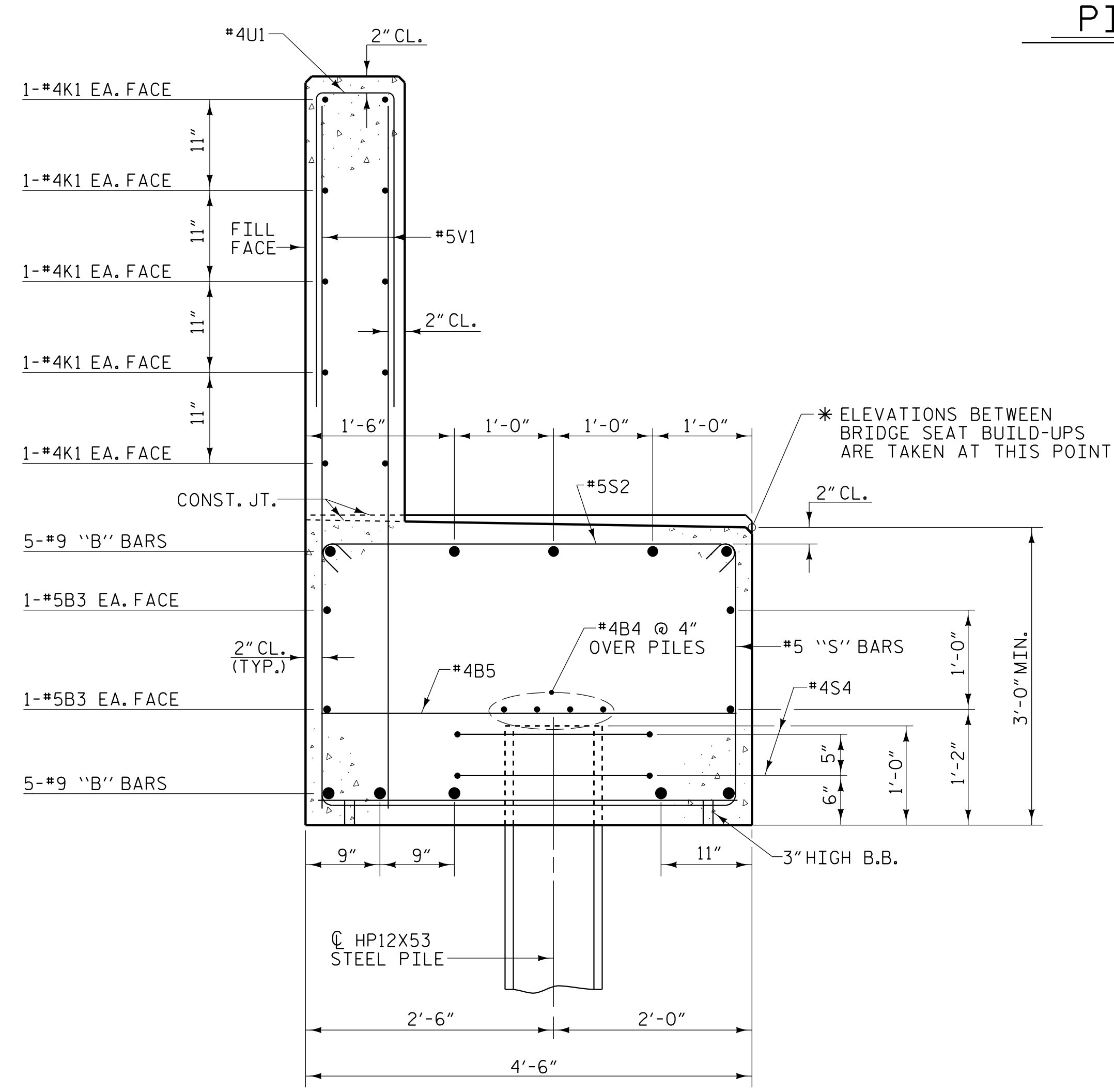
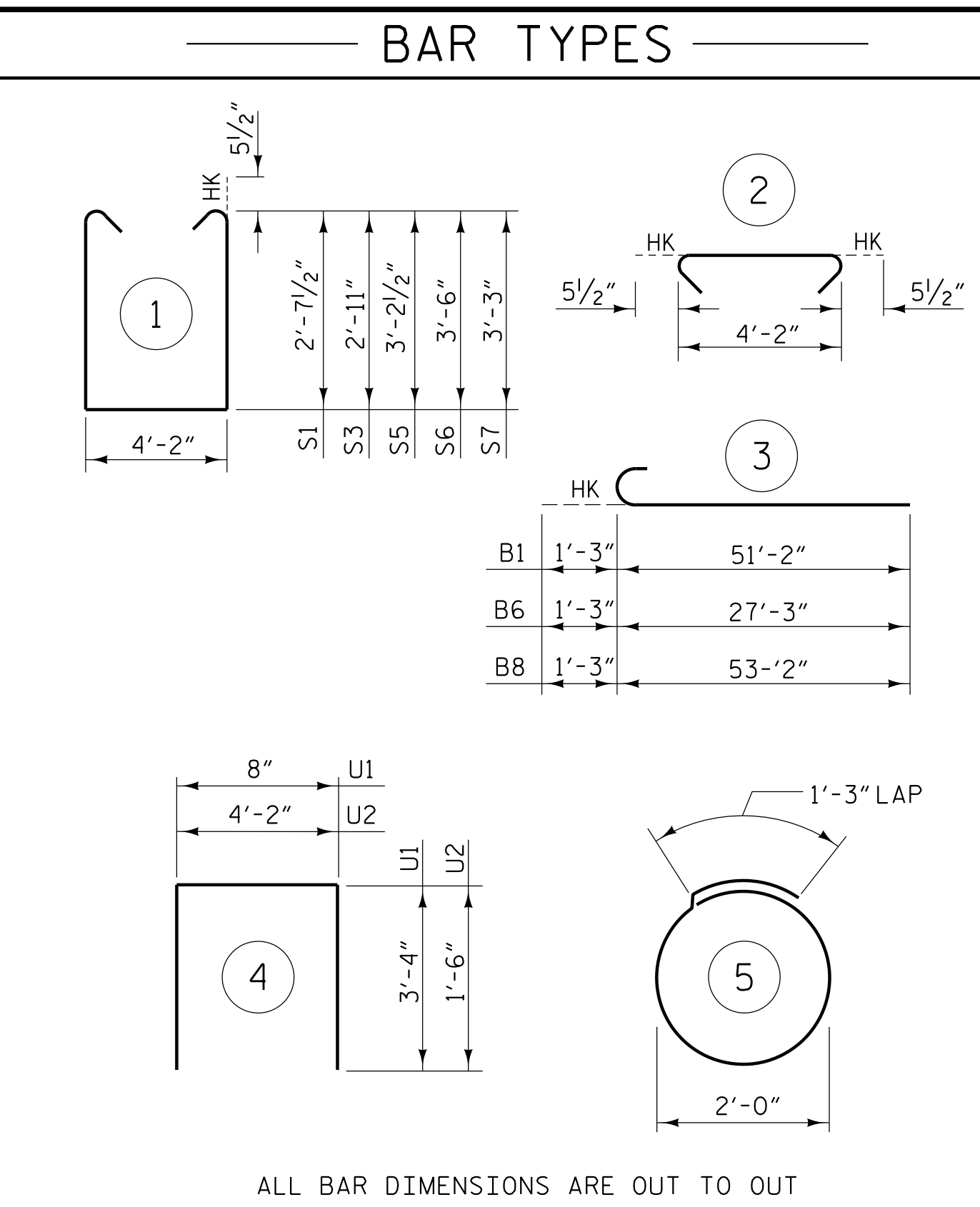


**PILE SPlice DETAILS**

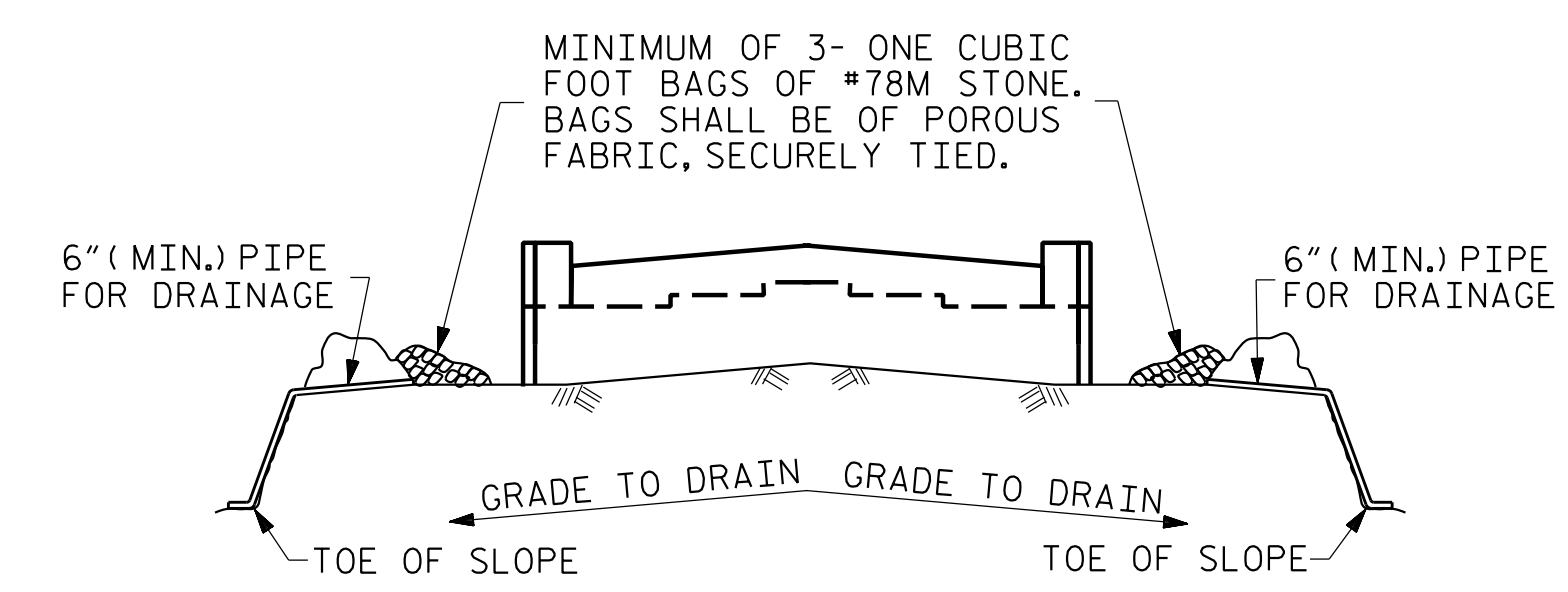


**SECTION A-A**



**BILL OF MATERIAL**

END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	3	52'-5"	1782
B2	5	#9	STR	54'-2"	921
B3	12	#5	STR	51'-1"	639
B4	24	#4	STR	26'-7"	426
B5	37	#4	STR	4'-2"	103
B6	5	#9	3	28'-6"	485
B7	5	#9	STR	54'-2"	921
B8	5	#9	3	54'-5"	925
B9	10	#9	STR	18'-4"	623
B10	10	#4	STR	28'-7"	191
B11	15	#4	STR	2'-10"	28
H1	4	#4	STR	4'-3"	11
H2	4	#4	STR	4'-1"	11
S1	33	#5	1	10'-4"	356
S2	247	#5	2	5'-1"	1310
S3	22	#5	1	10'-11"	250
S4	36	#4	5	7'-7"	182
S5	21	#5	1	11'-6"	252
S6	97	#5	1	12'-1"	1222
S7	74	#5	1	11'-7"	894
U1	138	#4	4	7'-4"	676
U2	30	#4	4	7'-2"	144
V1	138	#5	STR	7'-1"	1020



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**

TOTAL REINFORCING STEEL	13372 lbs.
CLASS "A" CONCRETE - CU. YARDS	
POUR 1 - CAP (LT.)	39.2 cu. yds.
POUR 2 - CAP (RT.)	53.3 cu. yds.
POUR 3 - BACKWALL	25.4 cu. yds.
TOTAL	117.9 cu. yds.
HP12X53 STEEL PILES	
18 PILES REQUIRED - LIN. FEET	1305
PILE DRIVING EQUIPMENT SETUP FOR HP12X53 STEEL PILES	18 EA.
PILE REDRIVES	9 EA.

PROJECT NO. U-2519BB  
CUMBERLAND COUNTY  
 STATION: 80+65.32 -Y17- POT

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 END BENT 2

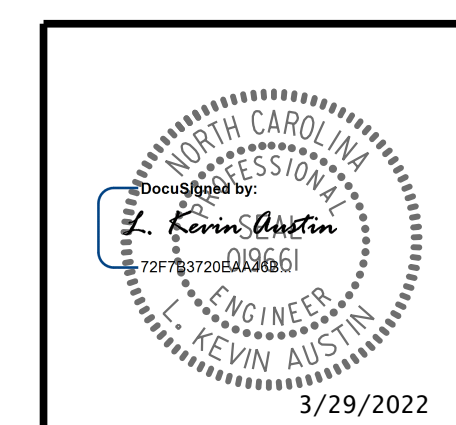
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. **S-36**  
 TOTAL SHEETS 41

PLANS PREPARED BY:

**NV5**

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 NC License # F-1333  
 Formerly CAVI Engineers & Consultants



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

DRAWN BY : M. D. METZGER DATE : 2/22  
 CHECKED BY : L. K. AUSTIN DATE : 2/22  
 DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE : 2/22

3/27/2022 5:59:04 PM G:\Project\2004\2040652\28\CLIENT\Structures\U2519BB\_SMU\_LEG\_250452.dgn