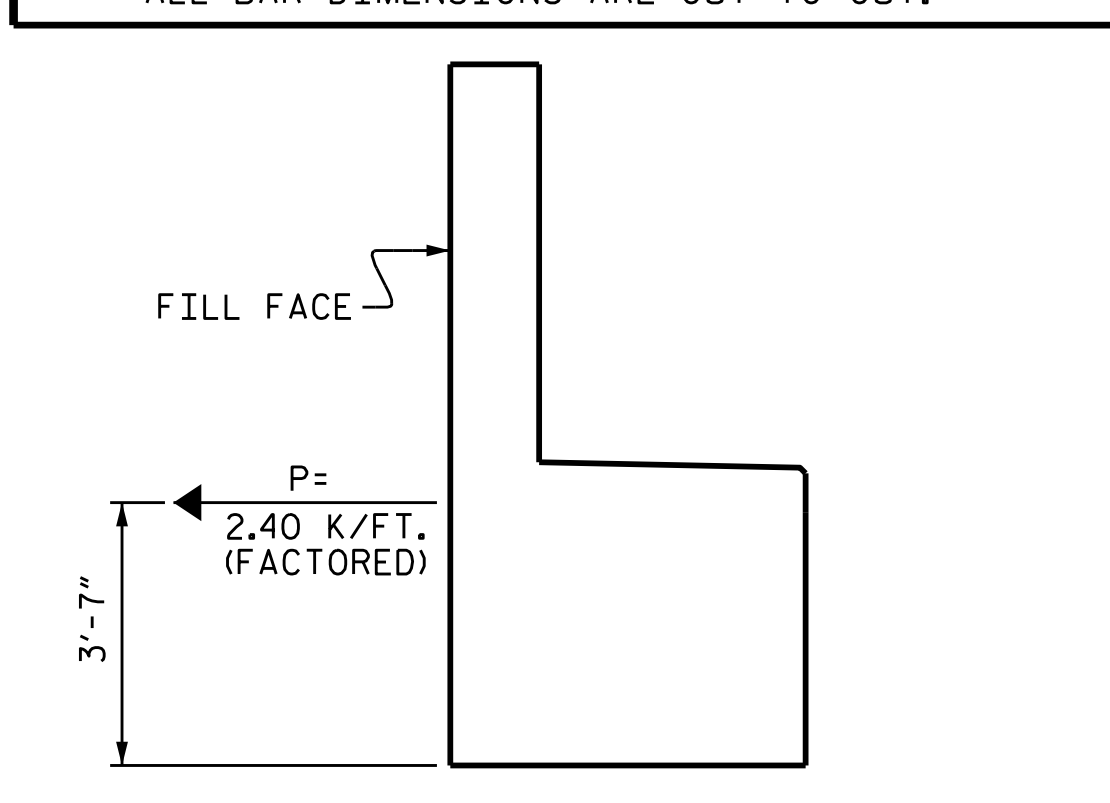
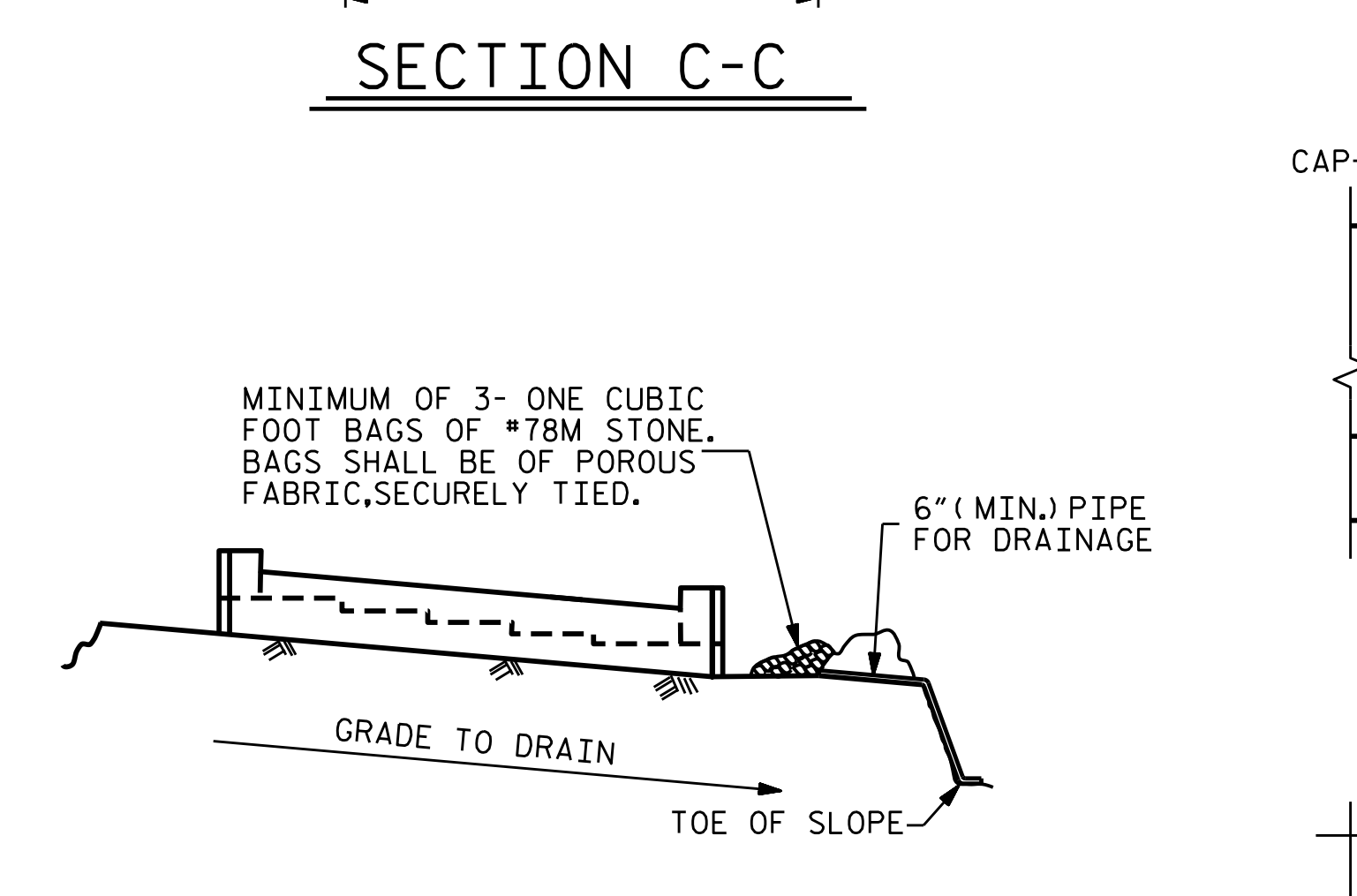
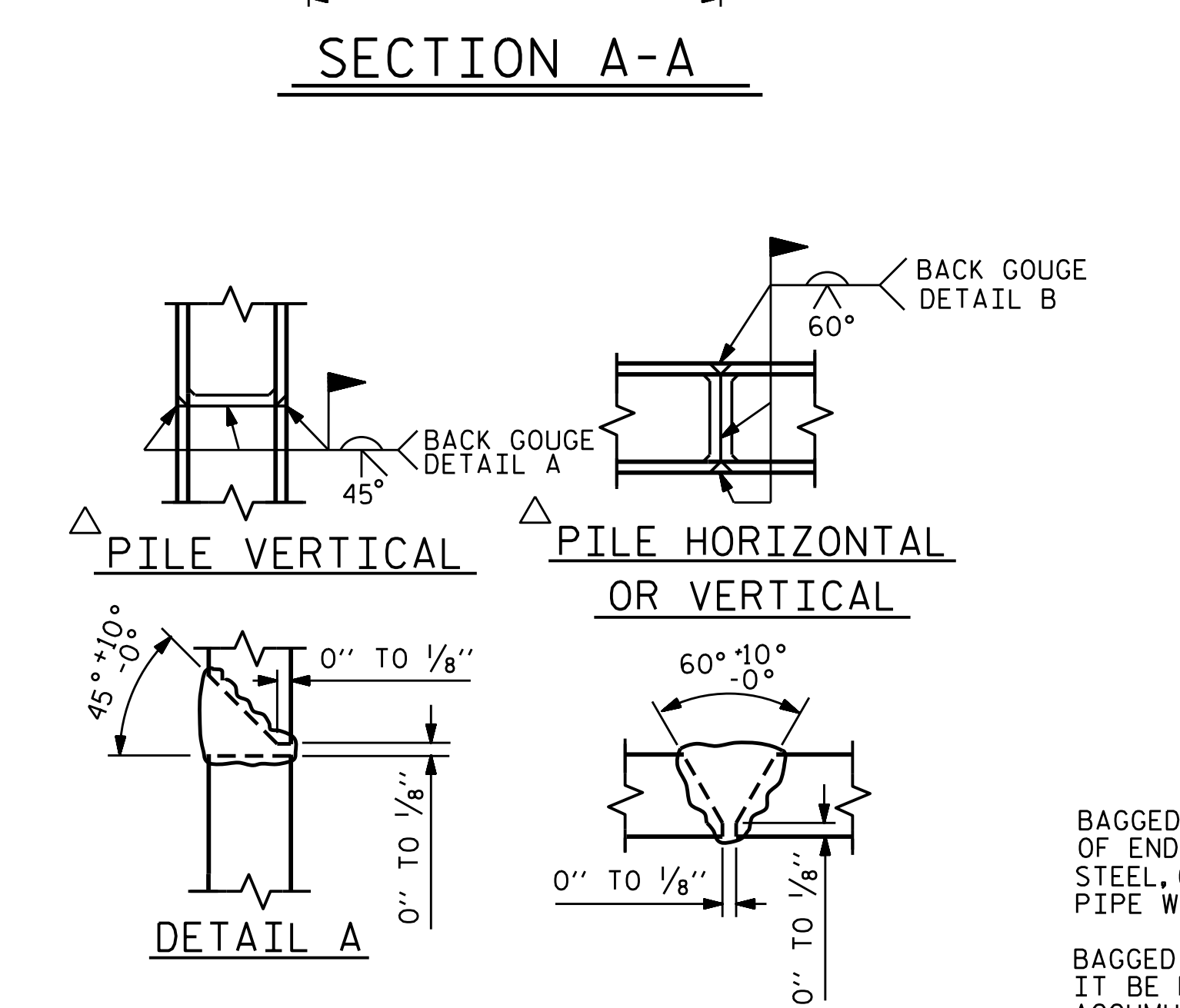


BILL OF MATERIAL						BILL OF MATERIAL					
END BENT 1 - STAGE I						END BENT 1 - STAGE II					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	1	44'-4"	1507	B3	11	#4	STR	3'-5"	25
B2	42	#4	STR	28'-11"	811	B4	20	#4	STR	3'-4"	45
B3	20	#4	STR	3'-5"	46	B8	28	#4	STR	23'-8"	443
B4	40	#4	STR	3'-4"	89	B9	5	#4	STR	3'-0"	10
B5	5	#9	STR	43'-5"	738	B10	2	#9	1	44'-11"	305
B6	5	#9	STR	45'-11"	781	B11	2	#9	1	44'-8"	304
B7	5	#4	STR	2'-10"	9	B12	2	#9	1	44'-6"	303
						B13	2	#9	1	44'-4"	301
						B14	2	#9	1	44'-2"	300
K1	42	#4	STR	28'-9"	807						
S1	95	#4	3	11'-5"	725	K2	28	#4	STR	23'-7"	441
S2	95	#4	2	4'-2"	264	S1	53	#4	3	11'-5"	404
S3	64	#4	4	6'-6"	278	S2	53	#4	2	4'-2"	148
U1	79	#4	5	3'-8"	193	S3	36	#4	4	6'-6"	156
U2	27	#4	5	6'-5"	116						
V1	148	#5	STR	9'-9"	1505	U1	45	#4	5	3'-8"	110
V2	10	#5	STR	9'-1"	95	U2	15	#4	5	6'-5"	64
						V1	80	#5	STR	9'-9"	814
						V2	10	#5	STR	9'-1"	95



REINFORCING STEEL =	7,964 LBS	REINFORCING STEEL =	4,268 LBS
CLASS A CONCRETE BREAKDOWN		CLASS A CONCRETE BREAKDOWN	
POUR #1 CAP	46.4 C.Y.	POUR #1 CAP	26.0 C.Y.
POUR #2 BACKWALL	17.3 C.Y.	POUR #2 BACKWALL	9.8 C.Y.
TOTAL CLASS A CONCRETE	63.7 C.Y.	TOTAL CLASS A CONCRETE	35.8 C.Y.
HP 12 X 53 STEEL PILES	510 LIN. FT.	HP 12 X 53 STEEL PILES	240 LIN. FT.
NO. = 17		NO. = 8	
STEEL PILE POINTS	17 EA.	STEEL PILE POINTS	8 EA.
PILE EXCAVATION IN SOIL		PILE EXCAVATION NOT IN SOIL	
112 LIN. FT.		18 LIN. FT.	



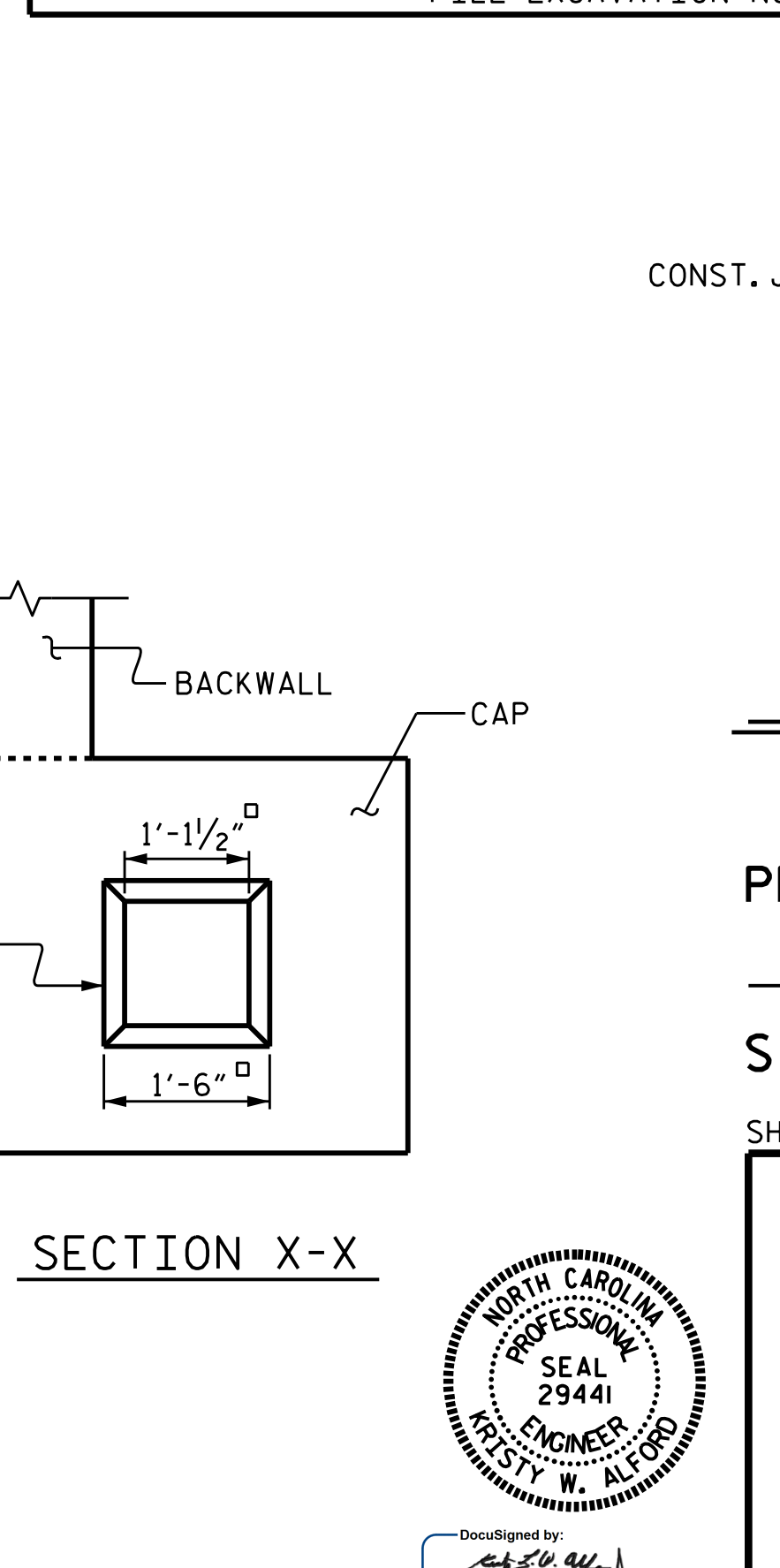
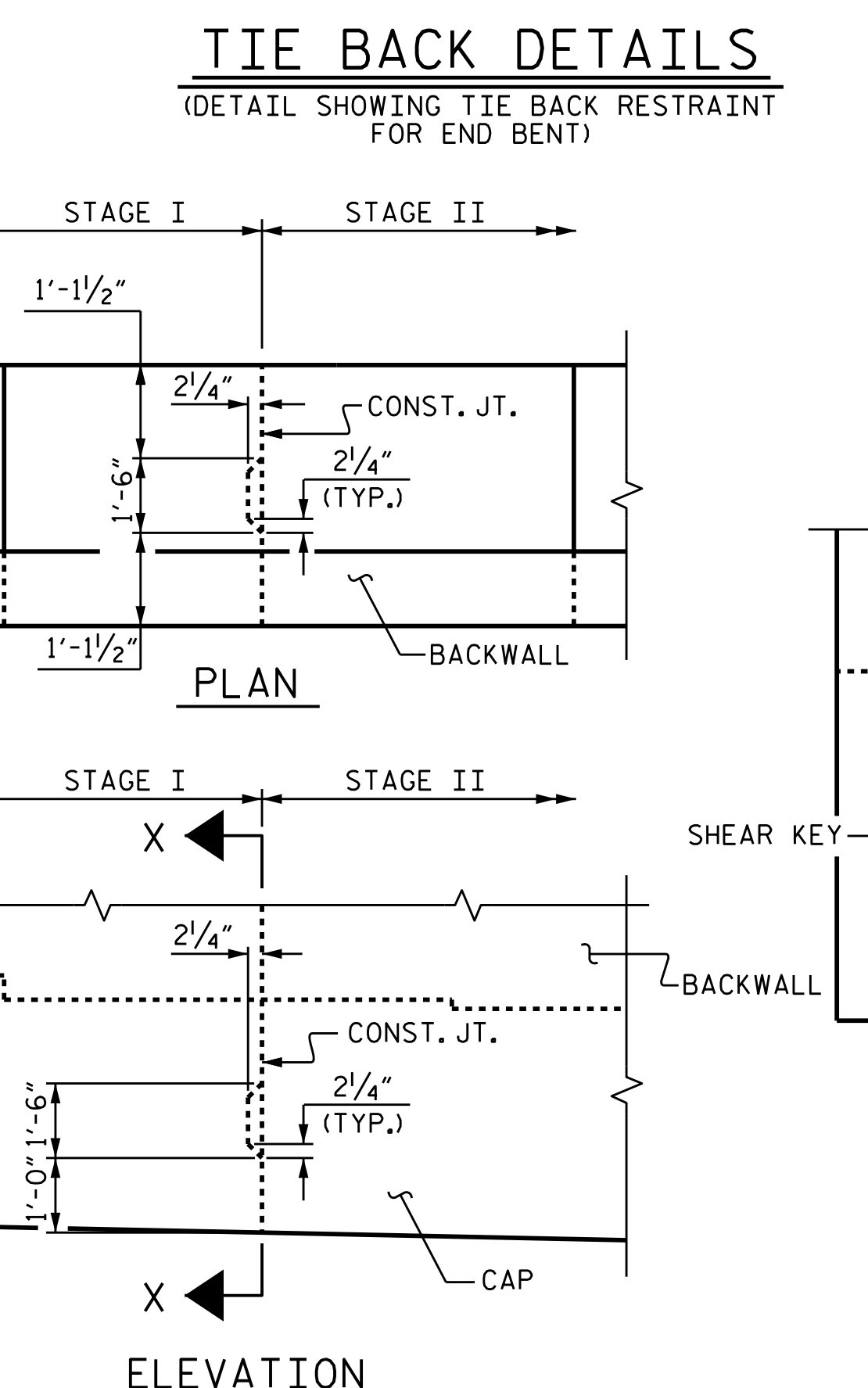
**PILE SPLICE DETAILS**

POSITION OF PILE DURING WELDING.

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.



PROJECT NO. B-5121/B-5317  
 WAKE COUNTY  
 STATION: 22+06.91 -L-  
 SHEET 3 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 END BENT 1

REVISIONS

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

SHEET NO. S-29  
 TOTAL SHEETS 110

STR. #1

DRAWN BY: T.L. AVERETTE DATE: 2-16  
 CHECKED BY: J.P. ADAMS DATE: 2-16  
 DESIGN ENGINEER OF RECORD: F. LEA DATE: 2-16

**TEMPORARY DRAINAGE AT END BENT**

**SHEAR KEY DETAIL**  
 REINFORCING STEEL NOT SHOWN

DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

13-APR-2016 12:34  
 R:\Structures\Plans\Str\_1\Sub.Draw\B-5121\_SB\_ED.dgn  
 Jpodans