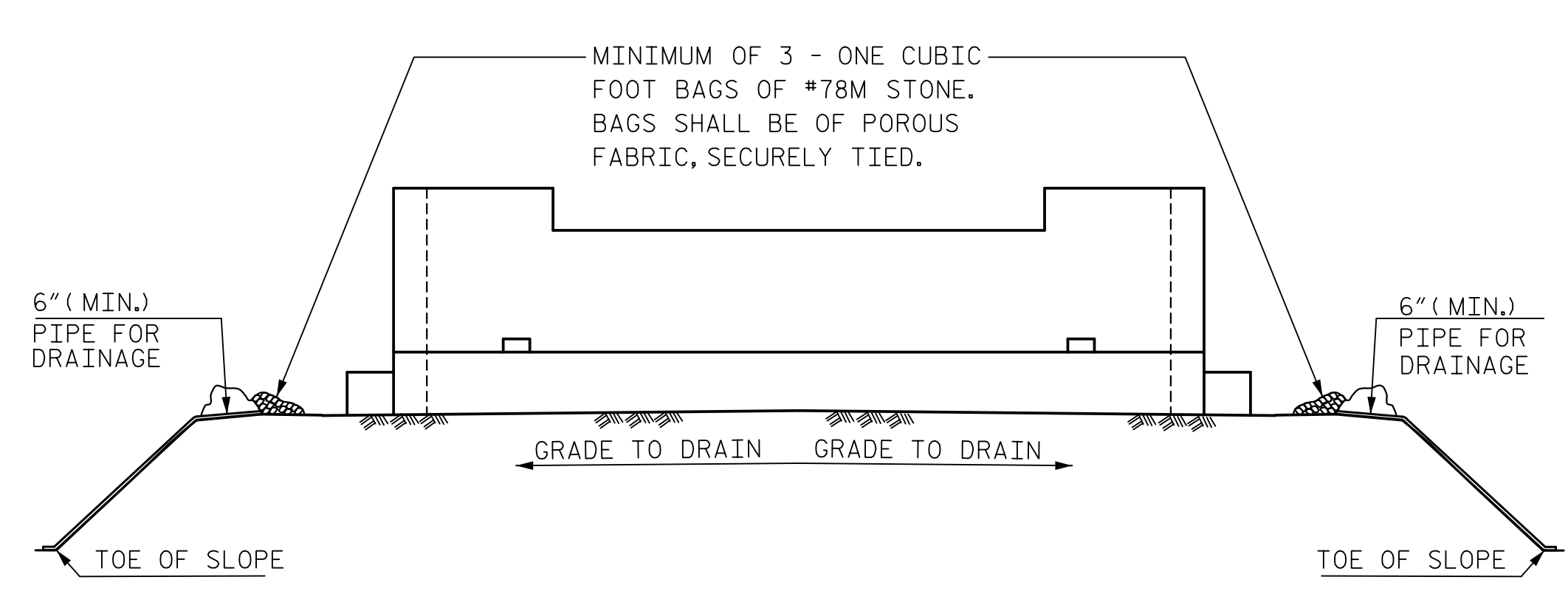


BILL OF REINFORCING						
ABUTMENT 2						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	11	9	1	34'-11"	1,306	
B2	16	4	STR	17'-5"	186	
B3	8	5	STR	32'-5"	270	
B4	8	4	STR	3'-11"	21	
D1	10	8	STR	2'-3"	60	
H1	24	5	7	14'-9"	369	
H2	24	4	7	14'-7"	234	
K1	20	4	STR	17'-5"	233	
S1	24	4	4	7'-0"	112	
S2	114	5	2	9'-9"	1,159	
S3	114	5	3	4'-6"	535	
S4	4	4	4	5'-3"	14	
S5	25	4	4	2'-11"	49	
S6	3	4	4	13'-9"	28	
S7	3	4	4	14'-9"	30	
S8	2	6	5	8'-5"	25	
S9	6	6	6	4'-0"	36	
V1	25	6	STR	7'-2"	269	
V2	25	4	STR	7'-2"	120	
V3	68	4	STR	9'-10"	447	
V4	16	6	STR	9'-10"	236	
QUANTITIES						
REINFORCING STEEL					LBS.	5,739
CAST-IN-PLACE CONCRETE (4,000 PSI):						
POUR 1 - CAP & BOT. OF WINGS				CU. YDS.	20.0	
POUR 2 - TOP OF WINGS & BACKWALL				CU. YDS.	17.3	
POUR 3 - LATERAL GUIDES				CU. YDS.	0.1	
TOTAL					CU. YDS.	37.4
HP 12x53 STEEL PILES					NO.	10
					L.F.	650
STEEL PILE POINTS					EACH	10

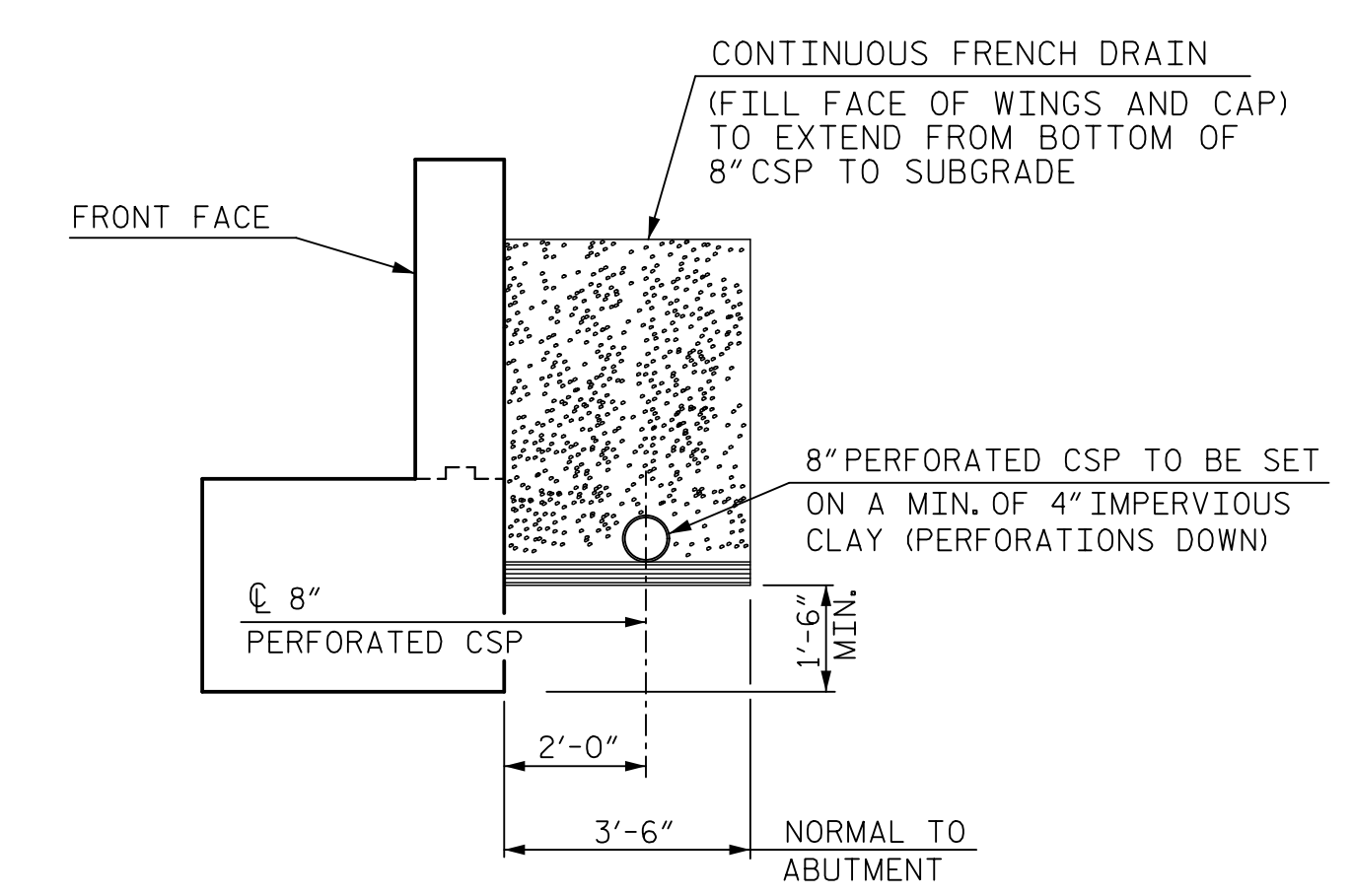


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF THE ABUTMENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

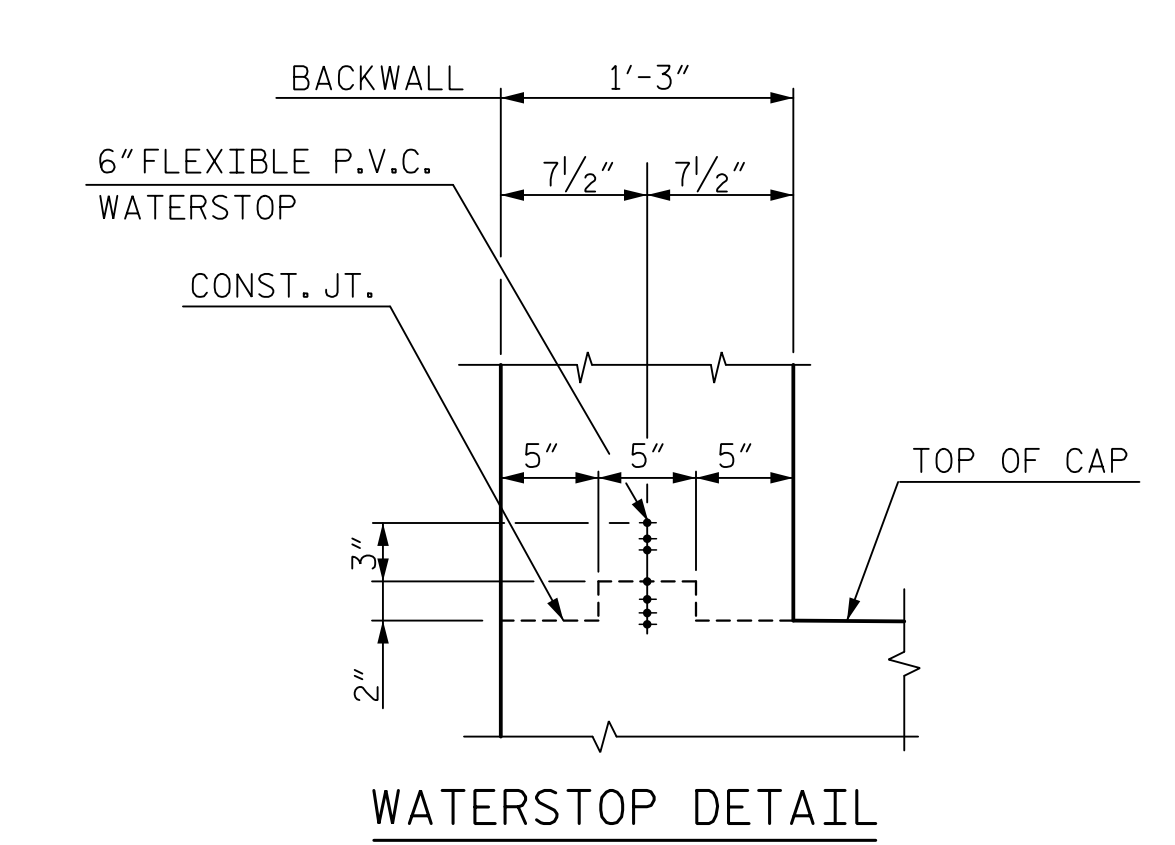
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

TEMPORARY DRAINAGE AT ABUTMENT



CONTINUOUS FRENCH DRAIN DETAIL



WATERSTOP DETAIL

NOTES:

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR #8D1 DOWELS.

THE LATERAL GUIDE AT EACH END OF THE CAP IS NOT TO BE POURED UNTIL BOX BEAMS ARE IN PLACE.

PROJECT NO. P-4900A

ROBESON COUNTY

STATION: POS 22+07.07 -L-

MILE POST: 0.23

SHEET 3 OF 3

DocuSigned by:
Paul J. Barber
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 12916
2/27/2015

DocuSigned by:
David W. Hawkins
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 27812
2/27/2015

HNTB HNTB NORTH CAROLINA, P.C.
License No. C-1554
343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY M. WRIGHT DATE 9/14
CHECKED BY D. RAGAN DATE 10/14 DWG. NO. 17

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

SHEET NO. **S-17**
TOTAL SHEETS **54**