

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	#29	1	16160	654
B2	#19	STR	15240	68
B3	#13	STR	8000	64
B4	#13	STR	740	10
D1	#19	STR	460	29
H1	#16	5	1480	11
H2	#16	5	1520	12
H3	#16	6	1600	12
H4	#16	6	1560	12
K1	#13	STR	900	7
S1	#13	3	2240	111
S2	#13	2	960	48
S3	#13	4	1980	28
S4	#13	7	1360	5
V1	#13	STR	1220	44

REINFORCING STEEL = 1115 KG

CLASS 'A' CONCRETE BREAKDOWN

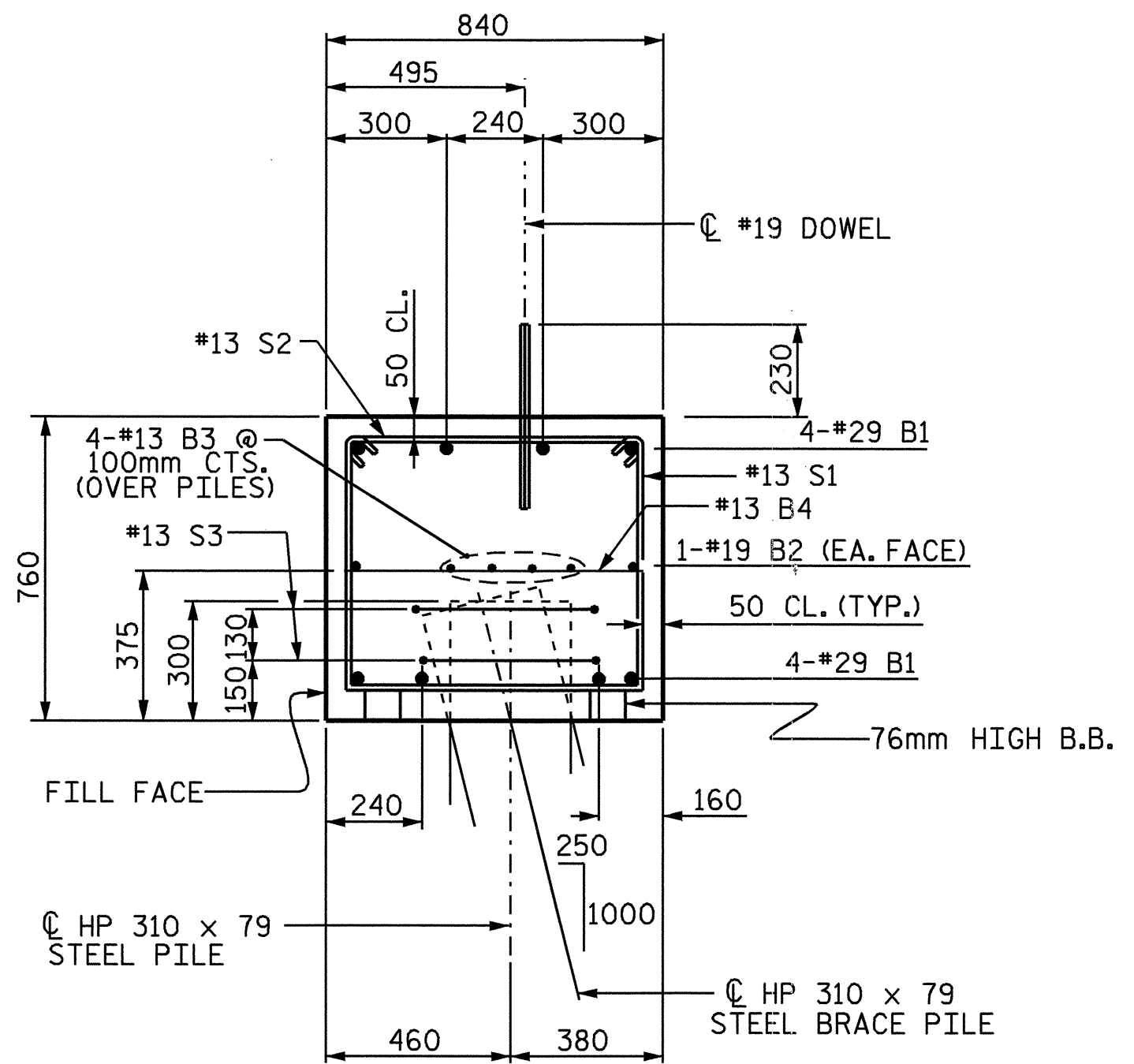
POUR #1 CAP & BOTTOM OF WINGS = 10.3 CU. M

POUR #2 TOP PART OF WINGS = 0.7 CU. M.

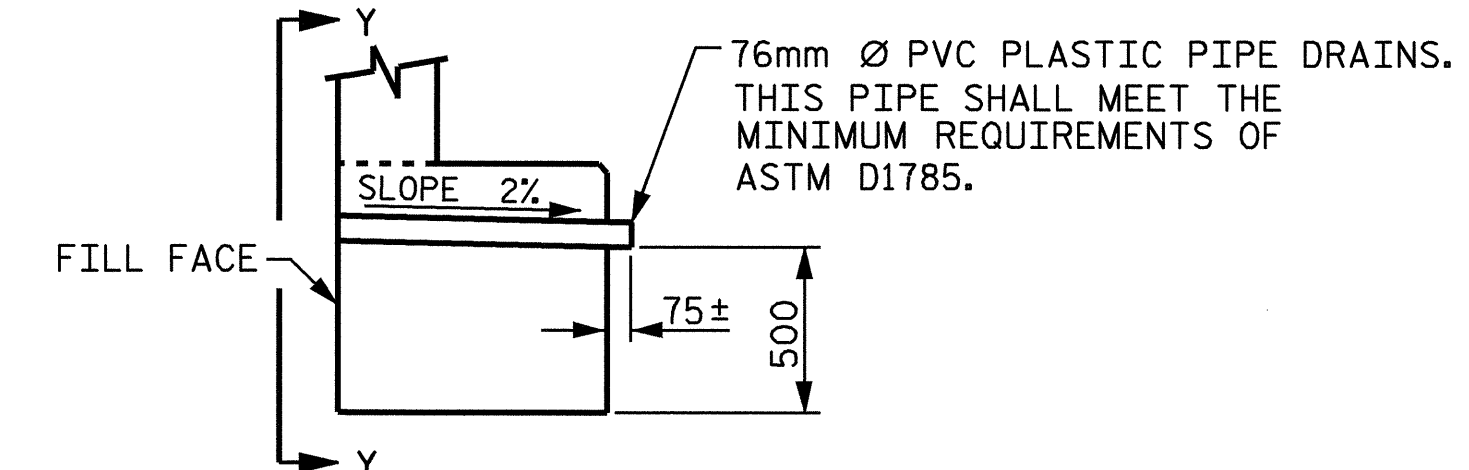
POUR #3 LATERAL GUIDES = 0.1 CU. M.

CLASS 'A' CONCRETE TOTAL = 11.1 CU. M.

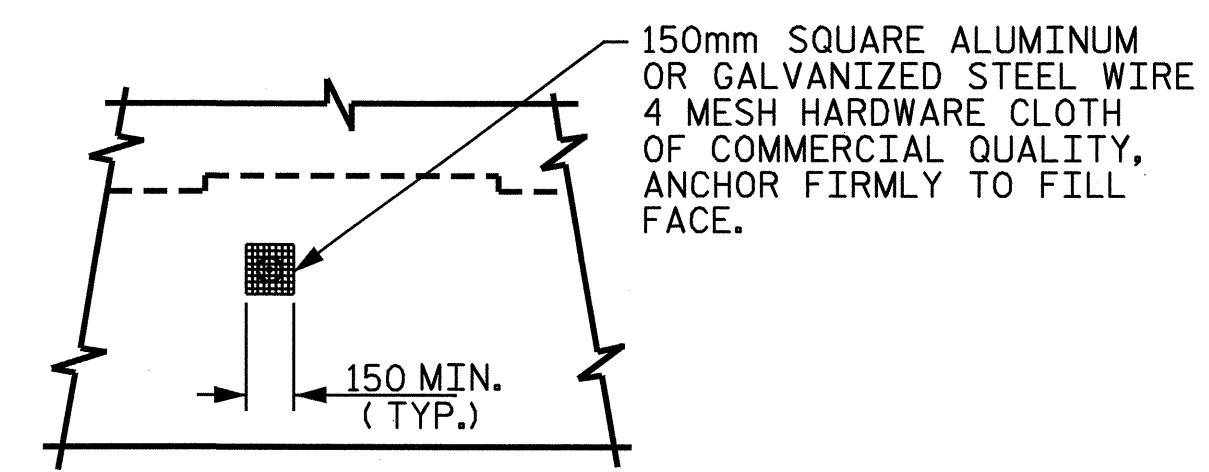
HP 310 x 79 STEEL PILES NO. 7 LIN. M. = 95.0m



SECTION A-A



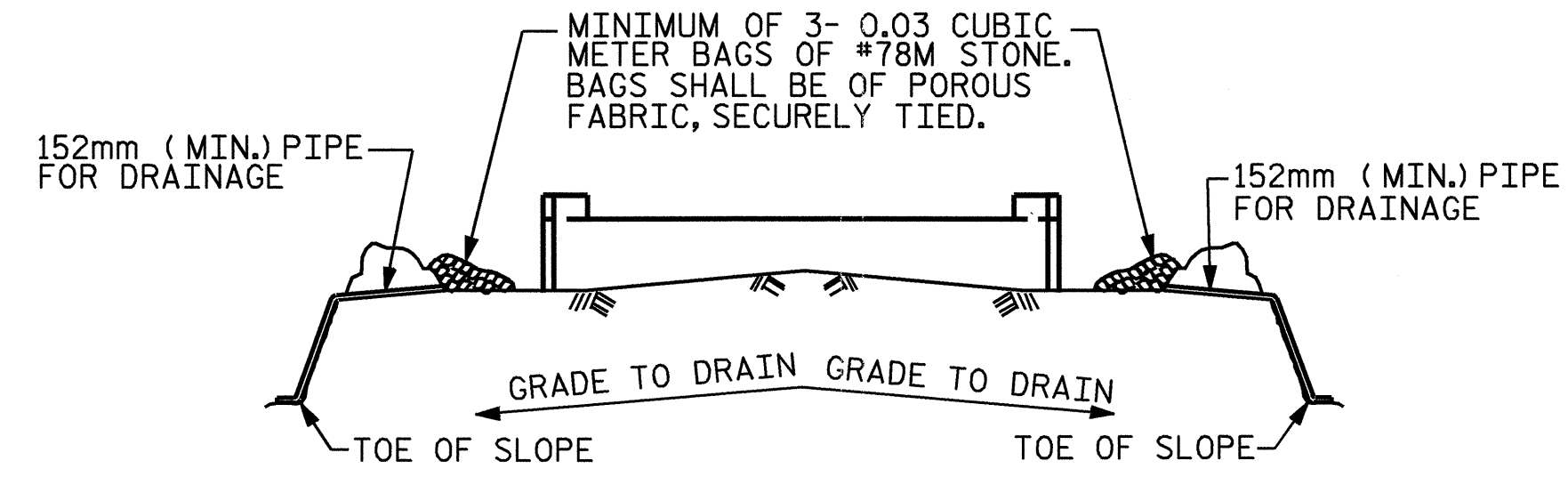
SECTION THRU CAP



VIEW Y-Y

NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

PIPE DRAIN DETAILS



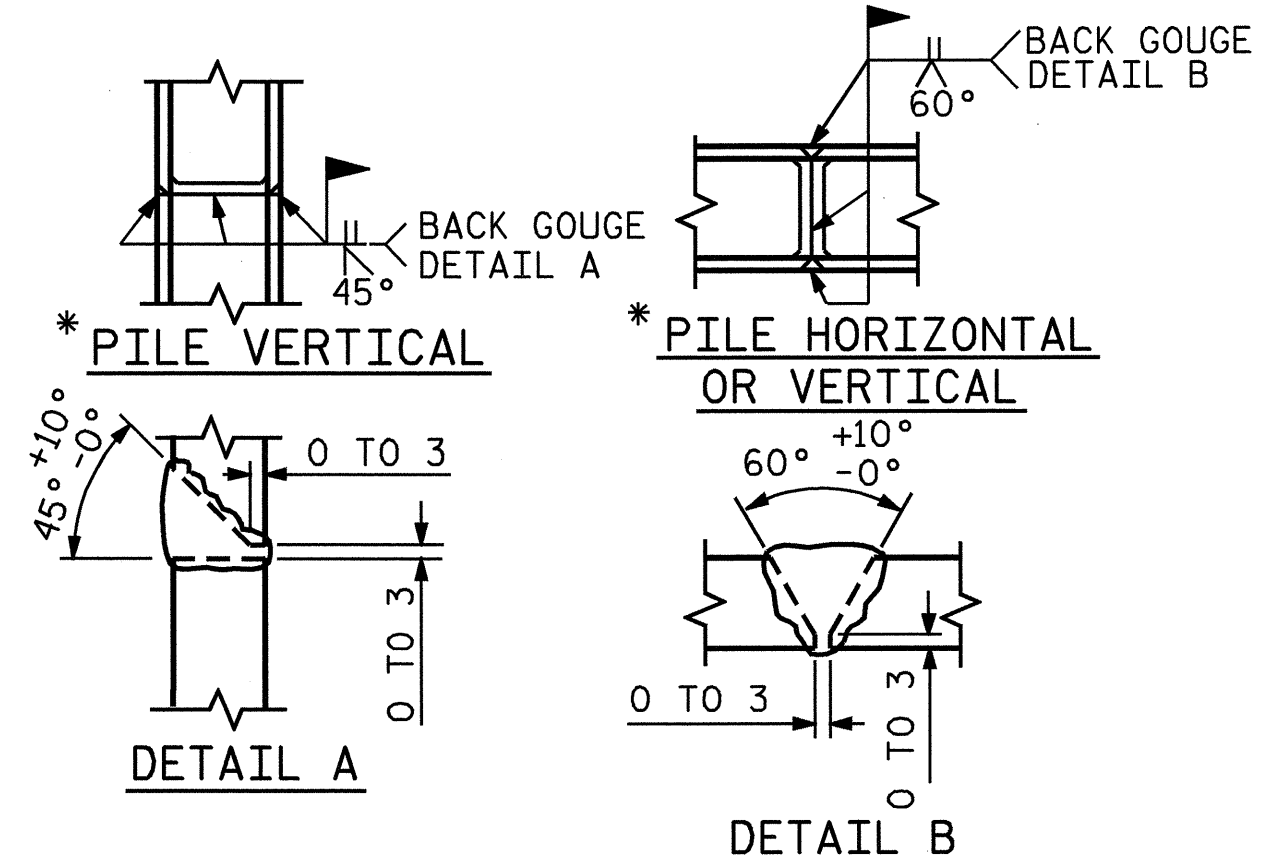
MINIMUM OF 3- 0.03 CUBIC METER BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

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 FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



PILE SPLICE DETAILS

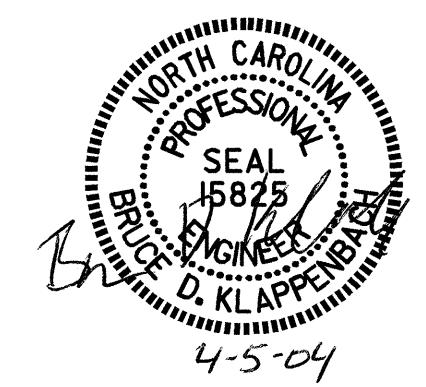
* POSITION OF PILE DURING WELDING.

PROJECT NO. R-2514A
 ONSLOW COUNTY
 STATION: 182+87.40 -L- MED.

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT #1
 (LEFT LANE)



REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11	
1			3			TOTAL SHEETS	
2			4			46	

DRAWN BY: J.B. WILSON DATE: 10/03
 CHECKED BY: G.M. Patterson DATE: 11/03