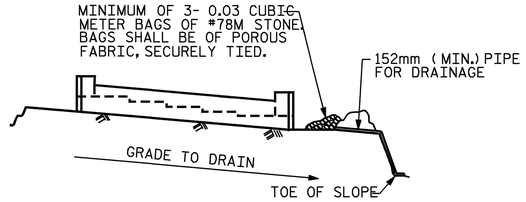
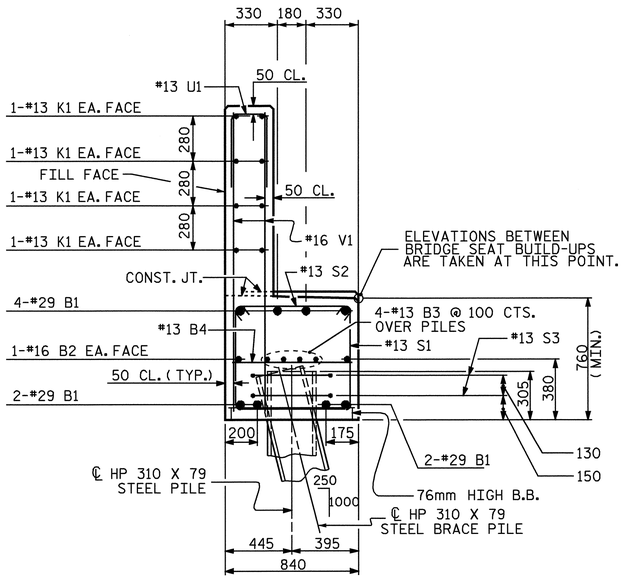


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

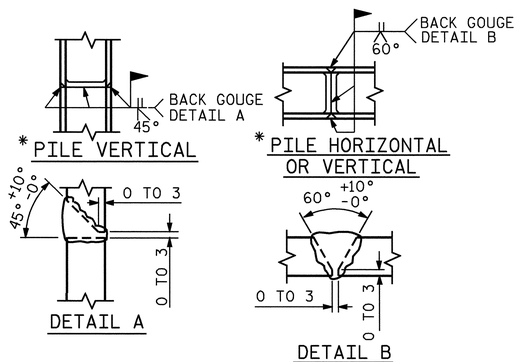
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



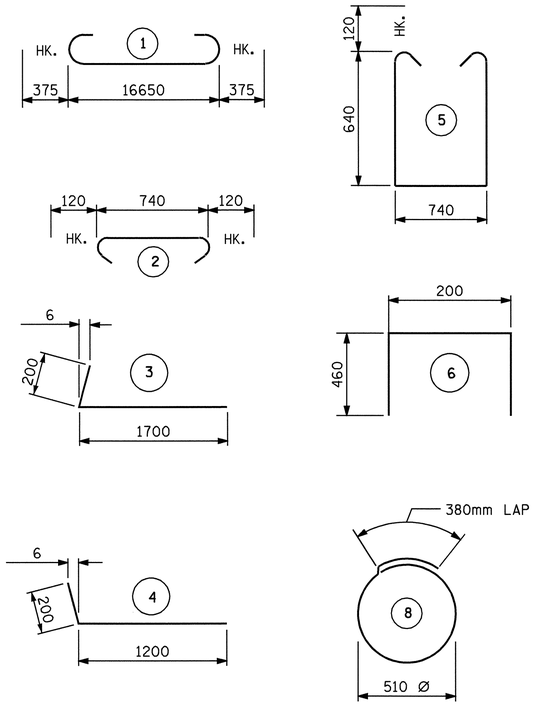
SECTION A-A



* POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT #2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#29	1	17400	704
B2	2	#16	STR	16700	52
B3	8	#13	STR	8720	69
B4	14	#13	STR	740	10
H1	18	#16	3	1900	53
H2	18	#16	4	1400	39
K1	16	#13	STR	8720	139
K2	8	#13	STR	860	7
S1	52	#13	5	2260	117
S2	52	#13	2	980	51
S3	22	#13	8	1980	43
U1	50	#13	6	1120	56
V1	100	#16	STR	1800	279
V2	20	#16	STR	2140	66
V3	18	#16	STR	2240	63

REINFORCING STEEL = 1748 KG

CLASS A CONCRETE BREAKDOWN

POUR #1 (CAP, LOWER PART OF WINGS)	11.9	CU. M.
POUR #2 (BACKWALL AND UPPER PART OF WING)	7.3	CU. M.
TOTAL	19.2	CU. M.

HP 310 X 79 STEEL PILES

NO. 11 METERS 148.5

PROJECT NO. R-2206

LINCOLN-CATAWBA COUNTY

STATION: 245+91.502 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT #2

RIGHT LANE

NORTH CAROLINA PROFESSIONAL SEAL 022516 ENGINEER EMILY E. MURRAY

9/10/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-297
1			3			TOTAL SHEETS
2			4			374

DRAWN BY : ZION J. RORIE DATE : 7/22/04
CHECKED BY : C. MILLER DATE : 7/16/04