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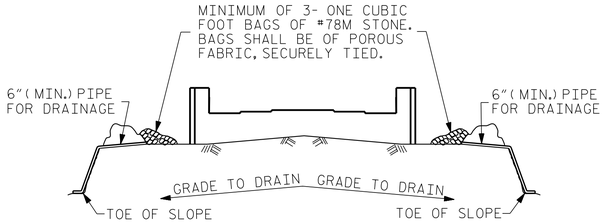
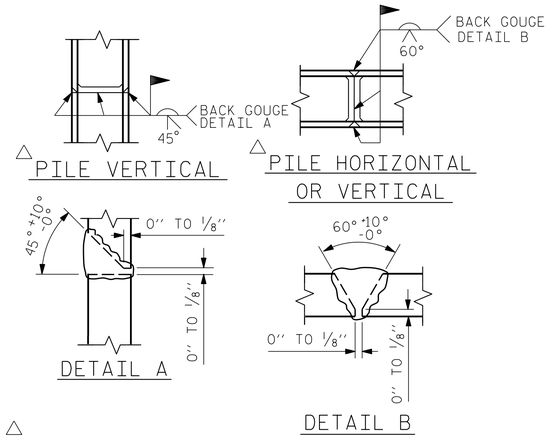


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

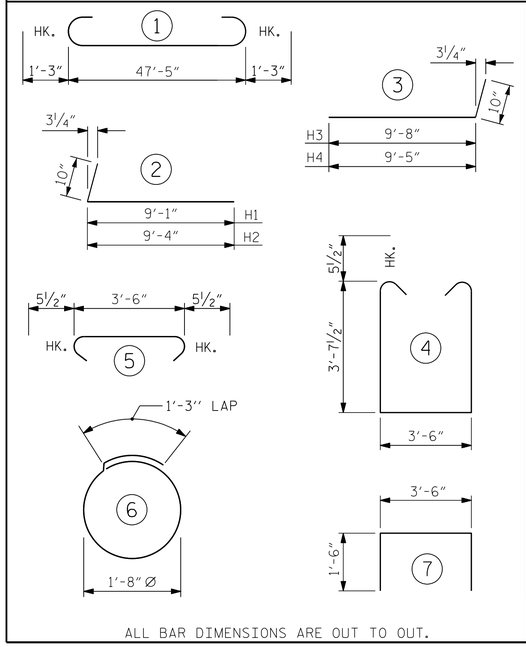
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT No. 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	49'-11"	1358
B2	6	#5	STR	47'-7"	298
B3	8	#4	STR	16'-11"	90
B4	8	#4	STR	25'-1"	134
B5	12	#4	STR	3'-6"	28
H1	14	#5	2	9'-11"	145
H2	14	#5	2	10'-2"	148
H3	14	#5	3	10'-6"	153
H4	14	#5	3	10'-3"	150
H5	32	#4	STR	3'-6"	75
S1	77	#5	4	11'-8"	937
S2	77	#5	5	4'-5"	355
S3	32	#4	6	6'-6"	139
U1	20	#4	7	6'-6"	87
V1	64	#4	STR	5'-9"	246
V2	28	#5	STR	9'-8"	282
V3	29	#5	STR	9'-4"	282

REINFORCING STEEL 4,907 LBS.

CLASS A CONCRETE BREAKDOWN

POUR #1 CAP, CONC. COLLARS & LOWER PART OF WINGS 32.6 C.Y.

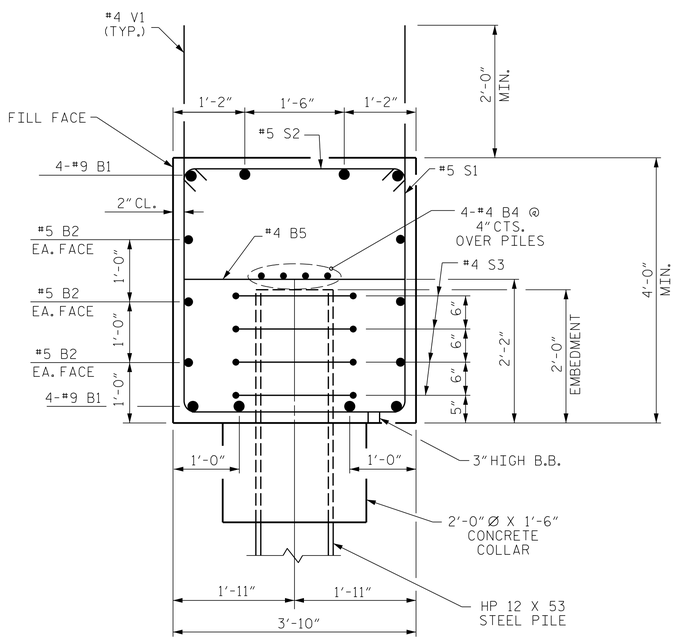
POUR #2 UPPER PART OF WINGS 5.4 C.Y.

TOTAL CLASS A CONCRETE 38.0 C.Y.

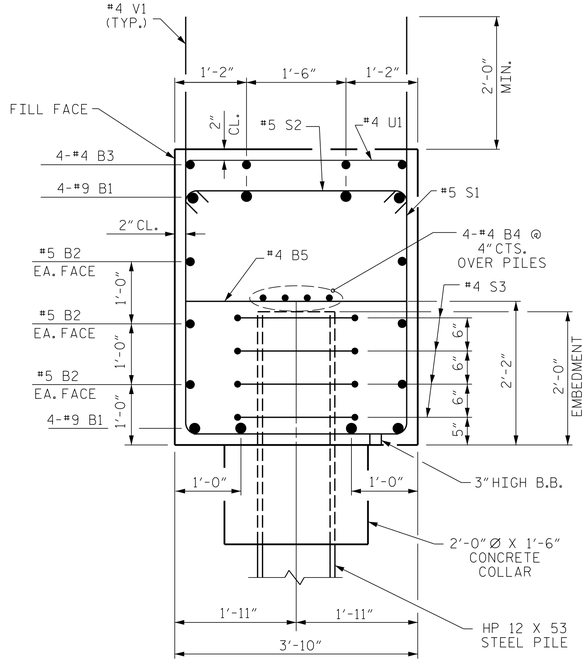
HP 12 X 53 STEEL PILES
NO: 8 LIN. FT.= 496

PILE REDRIVES 4 EA.

PILE DRIVING EQUIPMENT SET UP FOR HP 12 X 53 STEEL PILES 8 EA.



SECTION A-A



SECTION B-B

PROJECT NO. R-5797

COLUMBUS COUNTY

STATION: 30+65.33 -Y1B-

SHEET 3 OF 3

ENGINEER OF RECORD:
8/22/2019

NORTH CAROLINA PROFESSIONAL SEAL 37400 ENGINEER GREGORY M. GILLAND

Gregory M. Gilland

ETHERILL ENGINEERING

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT No. 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-29
1			3			TOTAL SHEETS
2			4			33

DRAWN BY : D. HODGE DATE : 2/19
CHECKED BY : B.C. HUNT DATE : 2/19

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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