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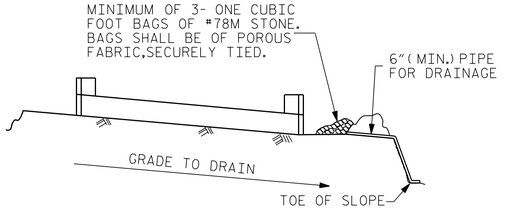
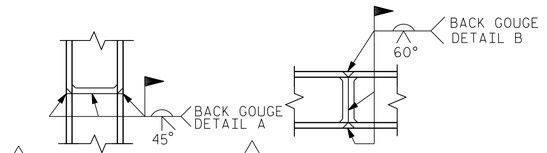


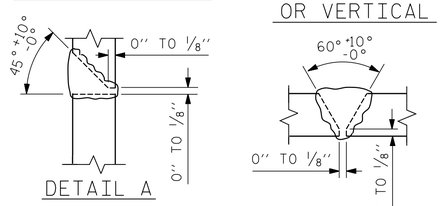
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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

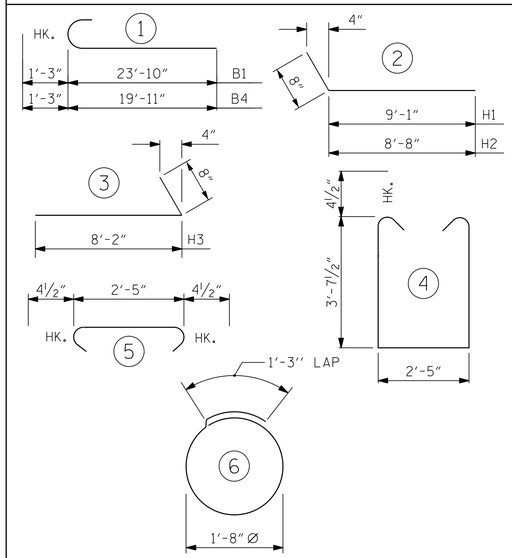




△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

END BENT No. 2 - STAGE I	END BENT No. 2 - STAGE II
HP 12 X 53 STEEL PILES NO: 3 LIN. FT.= 90	HP 12 X 53 STEEL PILES NO: 2 LIN. FT.= 40
STEEL PILE POINTS EA: 3	STEEL PILE POINTS EA: 2
PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES EA. 3	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES EA. 2

BILL OF MATERIAL FOR END BENT NO. 2

STAGE I

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	25'-1"	682
B2	14	#4	STR	25'-5"	238
B3	6	#4	STR	2'-5"	10
D1	10	#6	STR	1'-6"	23
H1	10	#4	2	9'-9"	65
H2	10	#4	2	9'-4"	62
K1	8	#4	STR	3'-3"	17
S1	29	#4	4	10'-5"	202
S2	29	#4	5	3'-2"	61
S3	12	#4	6	6'-6"	52
V1	27	#4	STR	6'-5"	116

REINFORCING STEEL (FOR STAGE I) 1528 LBS.

CLASS A CONCRETE BREAKDOWN (FOR END BENT NO. 2 STAGE I)

POUR #1 CAP, LOWER PART OF WING & COLLARS 10.6 C.Y.

POUR #2 UPPER PART OF WING 1.2 C.Y.

TOTAL CLASS A CONCRETE STAGE I 11.8 C.Y.

STAGE II

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B3	5	#4	STR	2'-5"	8
B4	8	#9	1	20'-2"	549
B5	14	#4	STR	19'-9"	185
D1	10	#6	STR	1'-6"	23
H3	20	#4	3	8'-10"	118
K1	8	#4	STR	3'-3"	17
S1	25	#4	4	10'-5"	174
S2	25	#4	5	3'-2"	53
S3	8	#4	6	6'-6"	35
V1	26	#4	STR	6'-5"	111

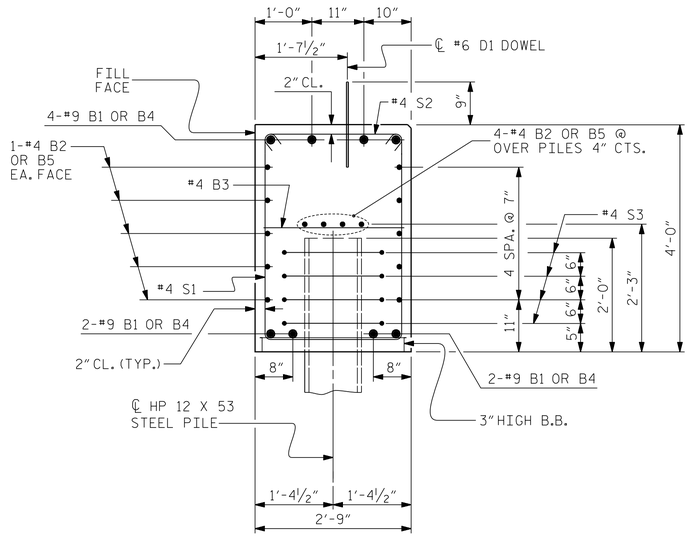
REINFORCING STEEL (FOR STAGE II) 1273

CLASS A CONCRETE BREAKDOWN (FOR END BENT NO. 2 STAGE II)

POUR #1 CAP, LOWER PART OF WING & COLLARS 9.6 C.Y.

POUR #2 UPPER PART OF WING 1.2 C.Y.

TOTAL CLASS A CONCRETE STAGE II 10.8 C.Y.



SECTION A-A

(CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL.")

PROJECT NO. B-6034

JACKSON COUNTY

STATION: 13+20.50 -L-

SHEET 7 OF 7

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT No. 2 DETAILS (STAGE I AND STAGE II)

1/6/2026 | 6:49:00 AM PST

NORTH CAROLINA PROFESSIONAL SEAL 20777 ENGINEER HARDY L. WILLIS

DocuSigned by: HARDY WILLIS 78DC830B82C54E7...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Johnson, Mirmiran, & Thompson Inc.
4700 Falls of Neuse Rd, Suite 100,
Raleigh, NC, 27609
License No: C-3097

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-18
1			3			TOTAL SHEETS
2			4			20

DWN. BY: WDC	DATE: 5/2025	DRAWN BY : WJH 12/11	
CHKD. BY: HLW	DATE: 5/2025	CHECKED BY : AAC 12/11	
DES. EGR. OF RECORD: ACO	DATE: 1/2016		

STD. NO. EB_30_60S4

wdcrutcher
DGN: V:\Asbuilt\transportation\3631-05 Jackson 65 - B-6034\Structures\Final Plans\Current Plans 2024\400_035_B6034_SMU_EB_S18.dgn
TIME: 1/6/2026