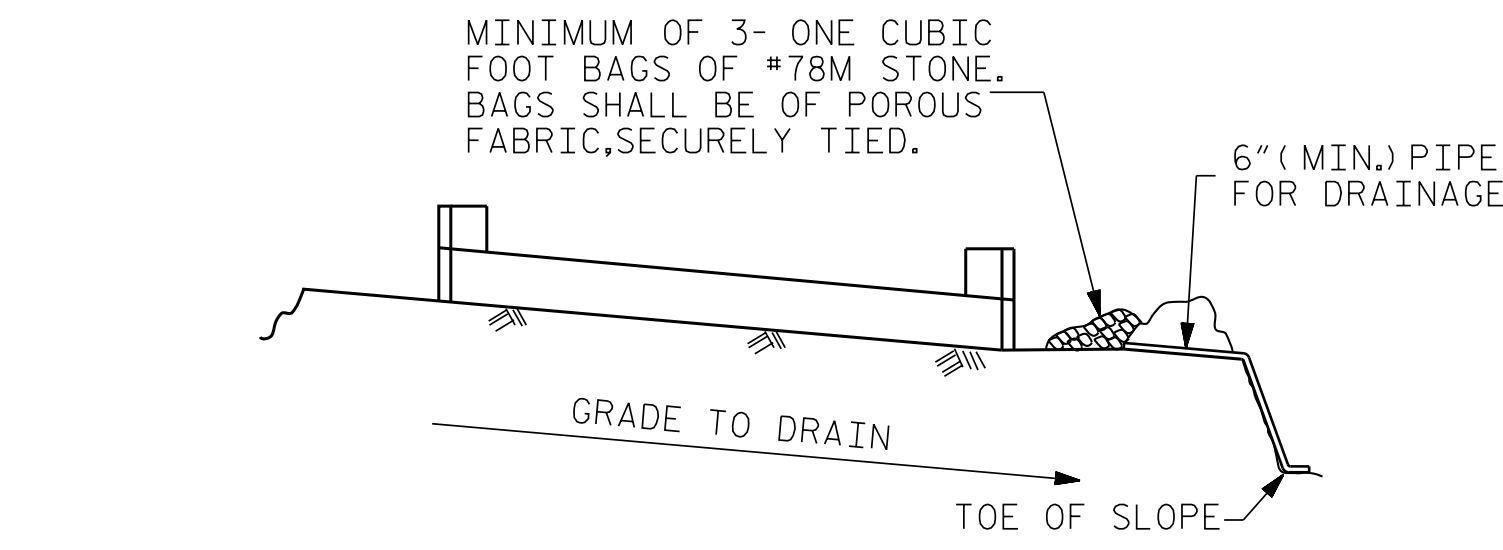


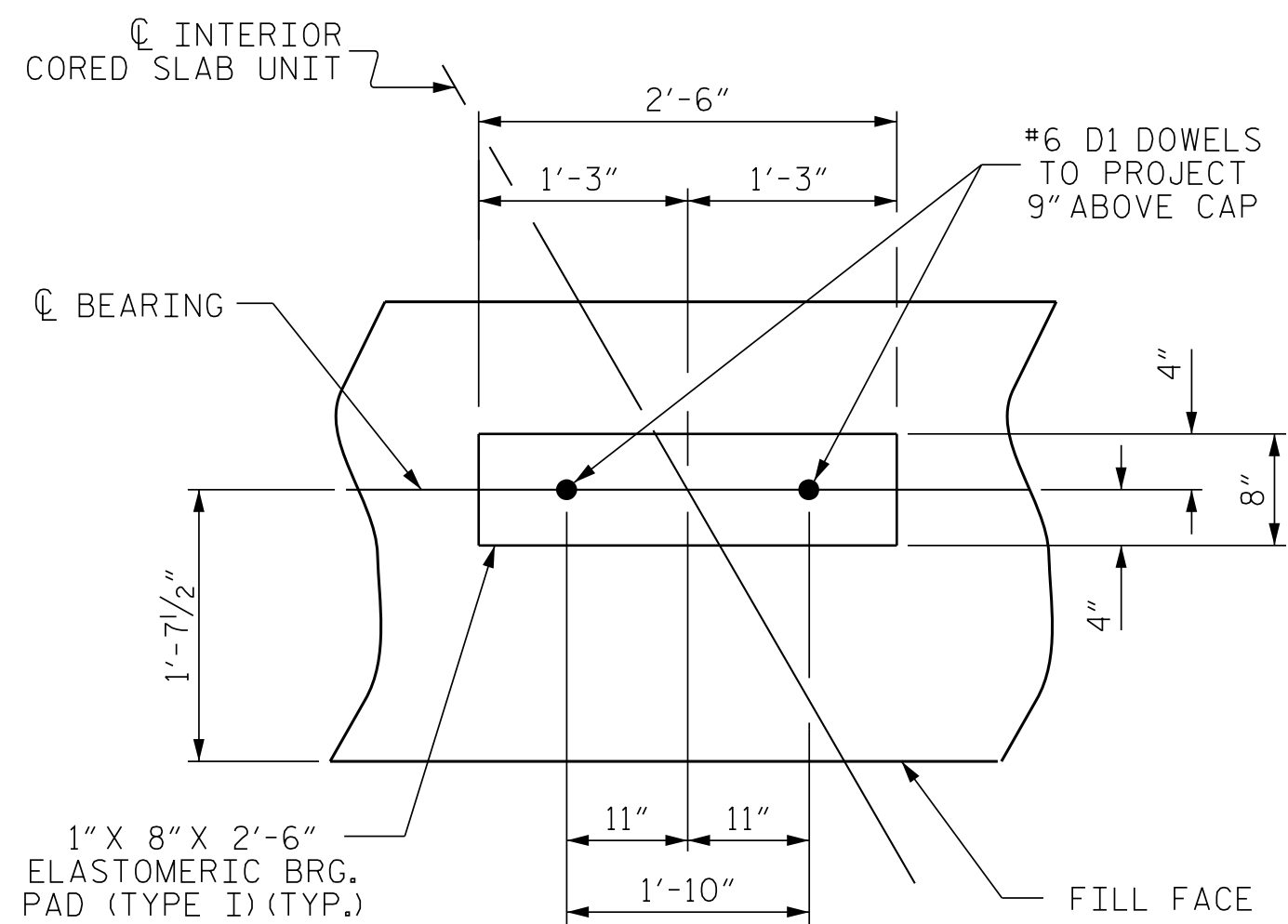


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

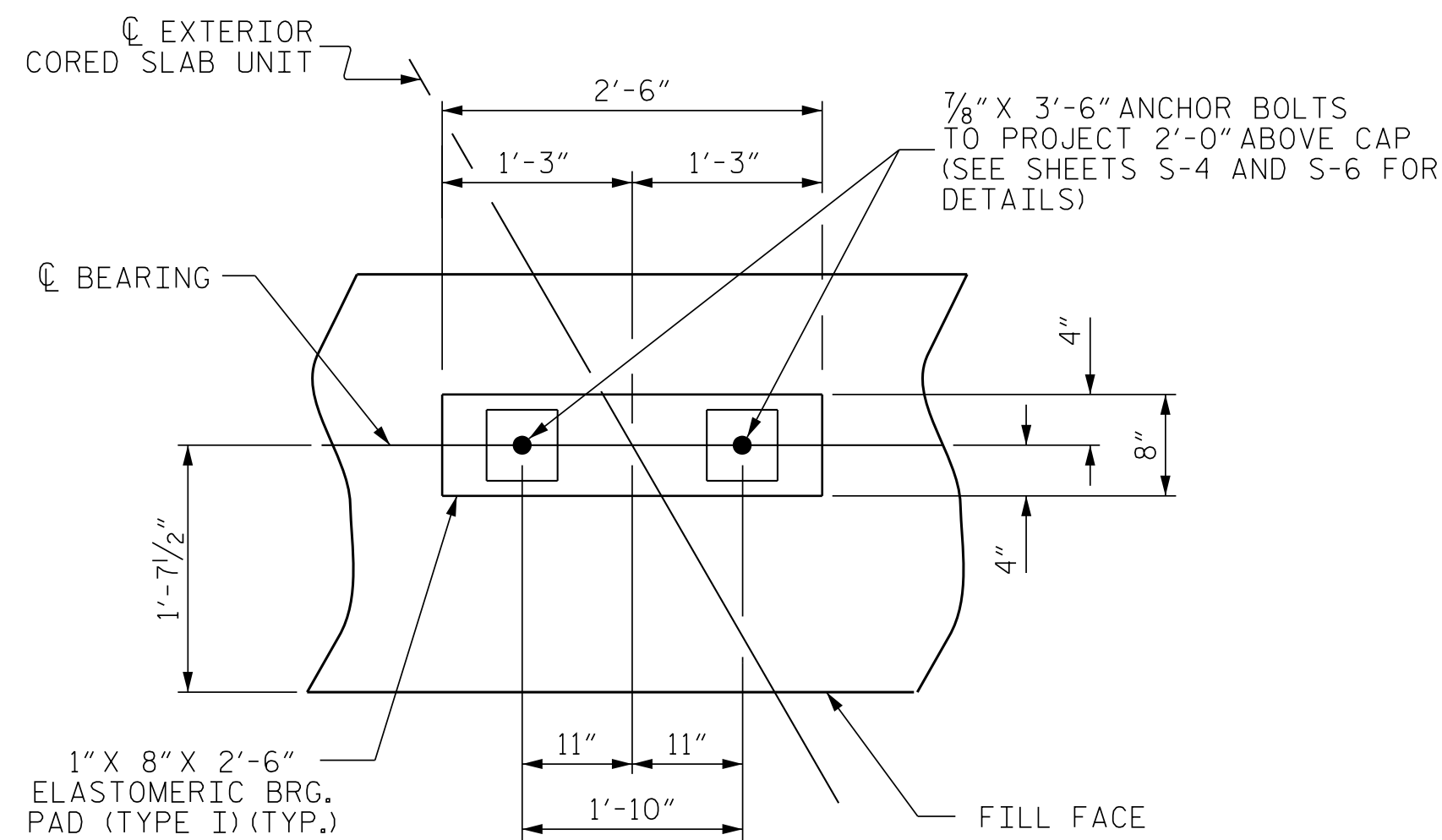
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

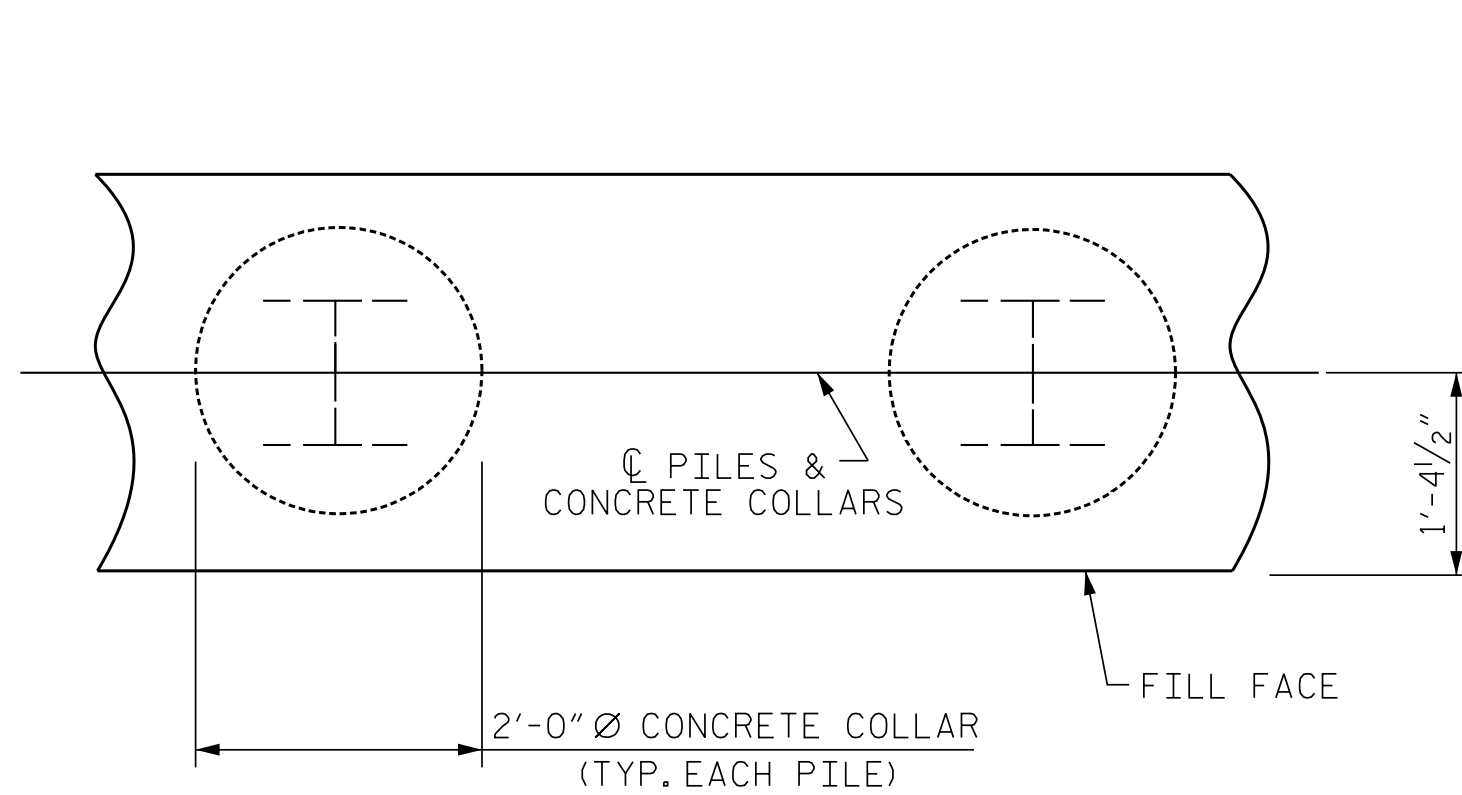
TEMPORARY DRAINAGE AT END BENT



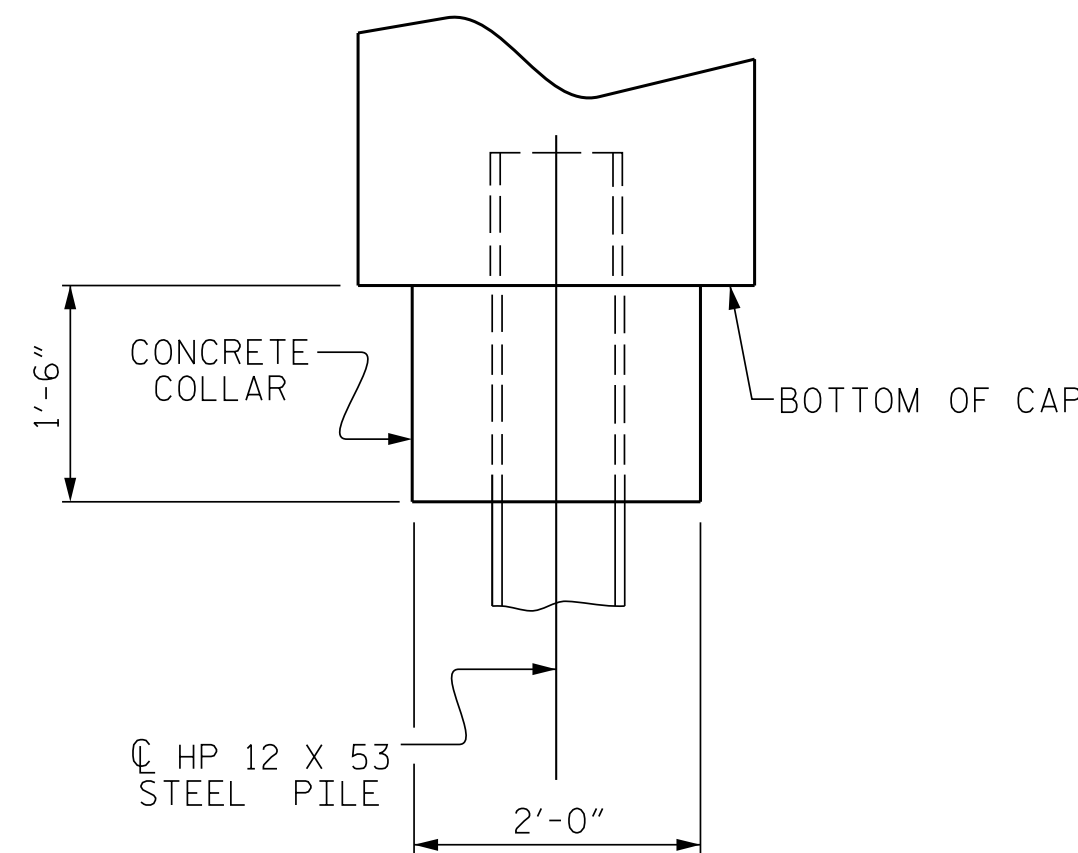
DETAIL "A"



DETAIL "B"

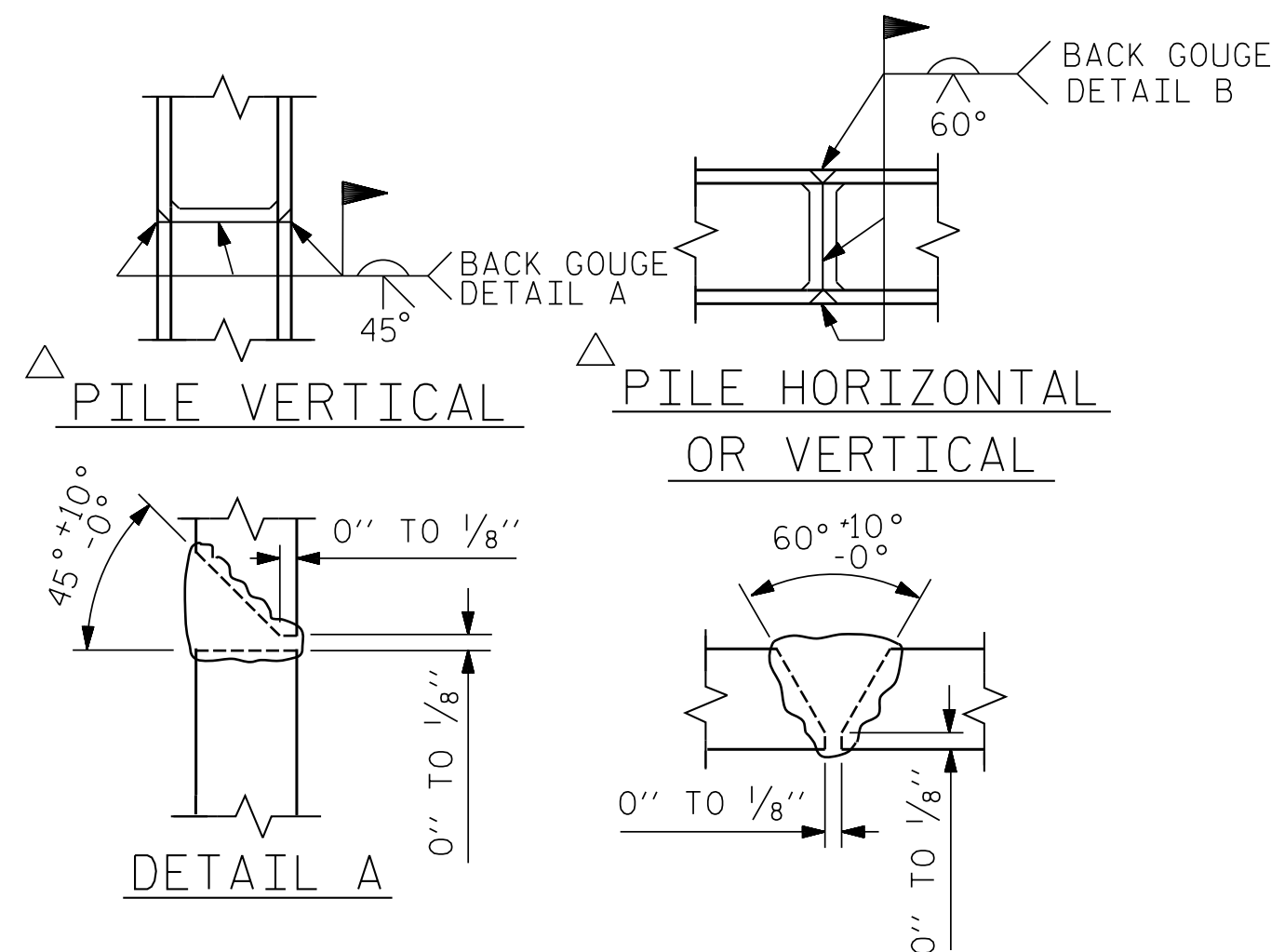


PLAN



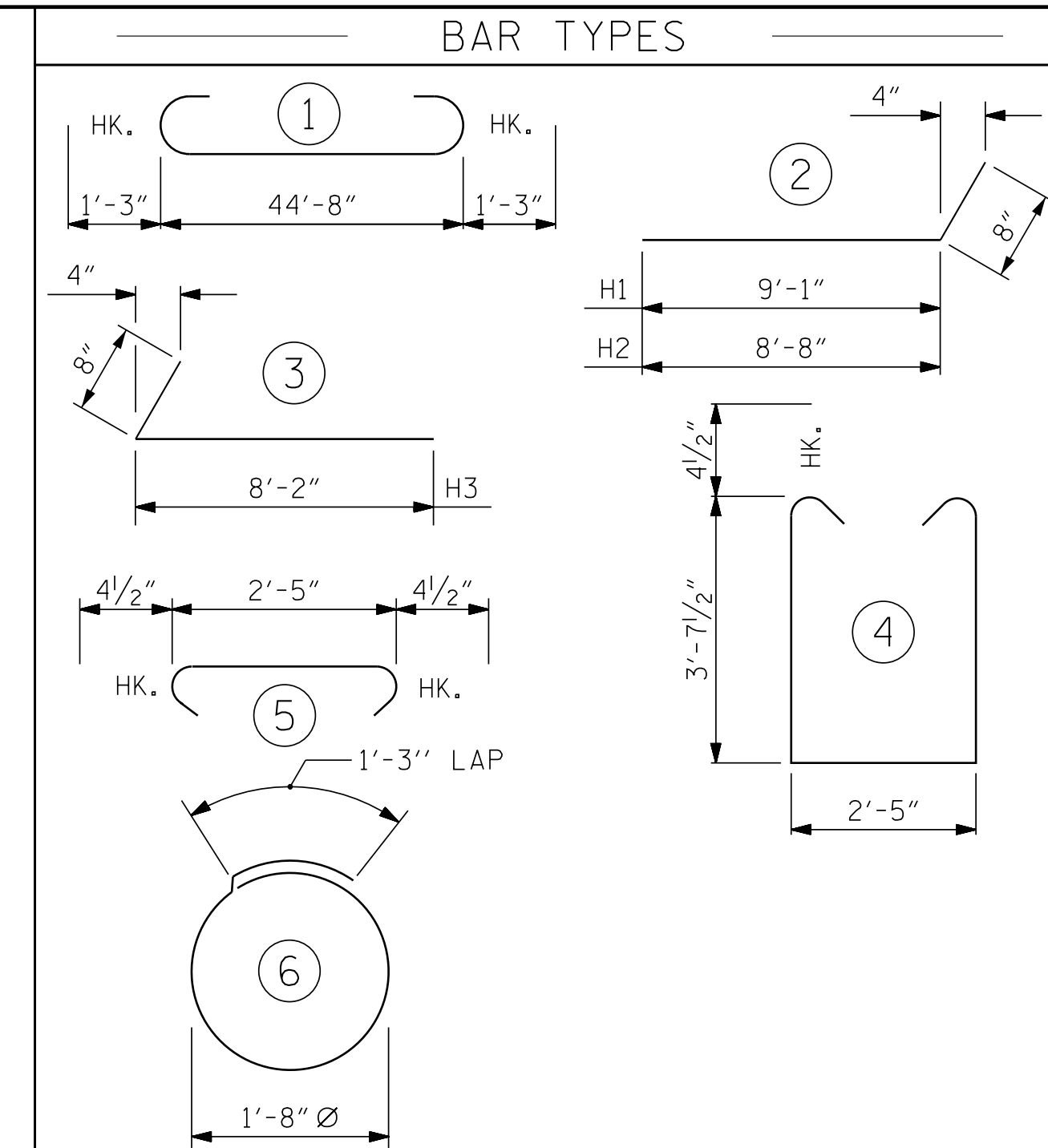
ELEVATION

CORROSION PROTECTION FOR STEEL PILES DETAIL



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



ALL BAR DIMENSIONS ARE OUT TO OUT.

END BENT No. 1

HP 12 X 53 STEEL PILES
NO: 7 LIN. FT. = 140

PILE DRIVING EQUIPMENT
SETUP FOR
HP 12 X 53 STEEL PILES
NO: 7

BILL OF MATERIAL FOR END BENT No. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9		47'-2"	1283
B2	28	#4	STR	23'-8"	443
B3	12	#4	STR	2'-5"	19
D1	22	#6	STR	1'-6"	50
H1	10	#4		9'-9"	65
H2	10	#4		9'-4"	62
H3	20	#4		8'-10"	118
K1	8	#4	STR	3'-11"	21
K1	8	#4	STR	4'-7"	24
S1	56	#4		10'-5"	390
S2	56	#4		3'-2"	118
S3	28	#4		6'-6"	122
V1	57	#4	STR	6'-4"	241

REINFORCING STEEL
(FOR ONE END BENT) 2956 LBS.

CLASS A CONCRETE BREAKDOWN
(FOR ONE END BENT)

POUR #1 CAP, LOWER PART
OF WINGS & COLLARS 21.9 C.Y.

POUR #2 UPPER PART OF
WINGS 2.6 C.Y.

TOTAL CLASS A CONCRETE 24.5 C.Y.

PROJECT NO. B-5929
HENDERSON COUNTY
STATION: 13+45.76 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT No. 1
DETAILS

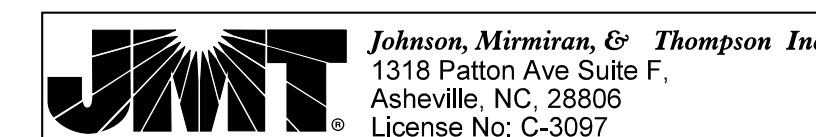
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
1			3			TOTAL SHEETS
2			4			25

STD. NO. EB-33-120S4

ASSEMBLED BY :	WC	DATE :	6-2017
CHECKED BY :	RTS	DATE :	7-2017
DRAWN BY :	WJH 12/11	REV.	4/17
CHECKED BY :	AAC 12/11	MAA/THC	

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

SECTION A-A



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

