

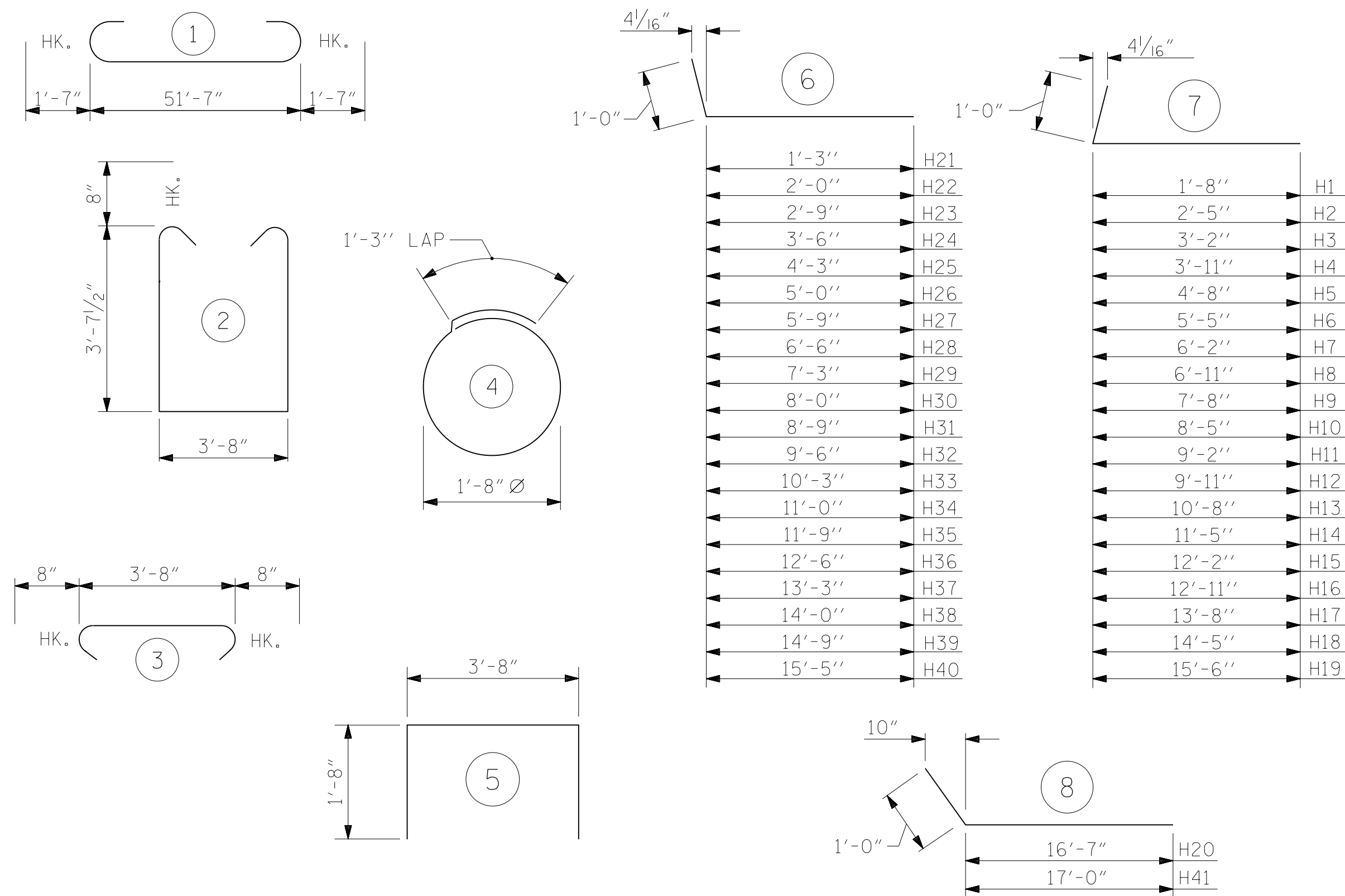
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

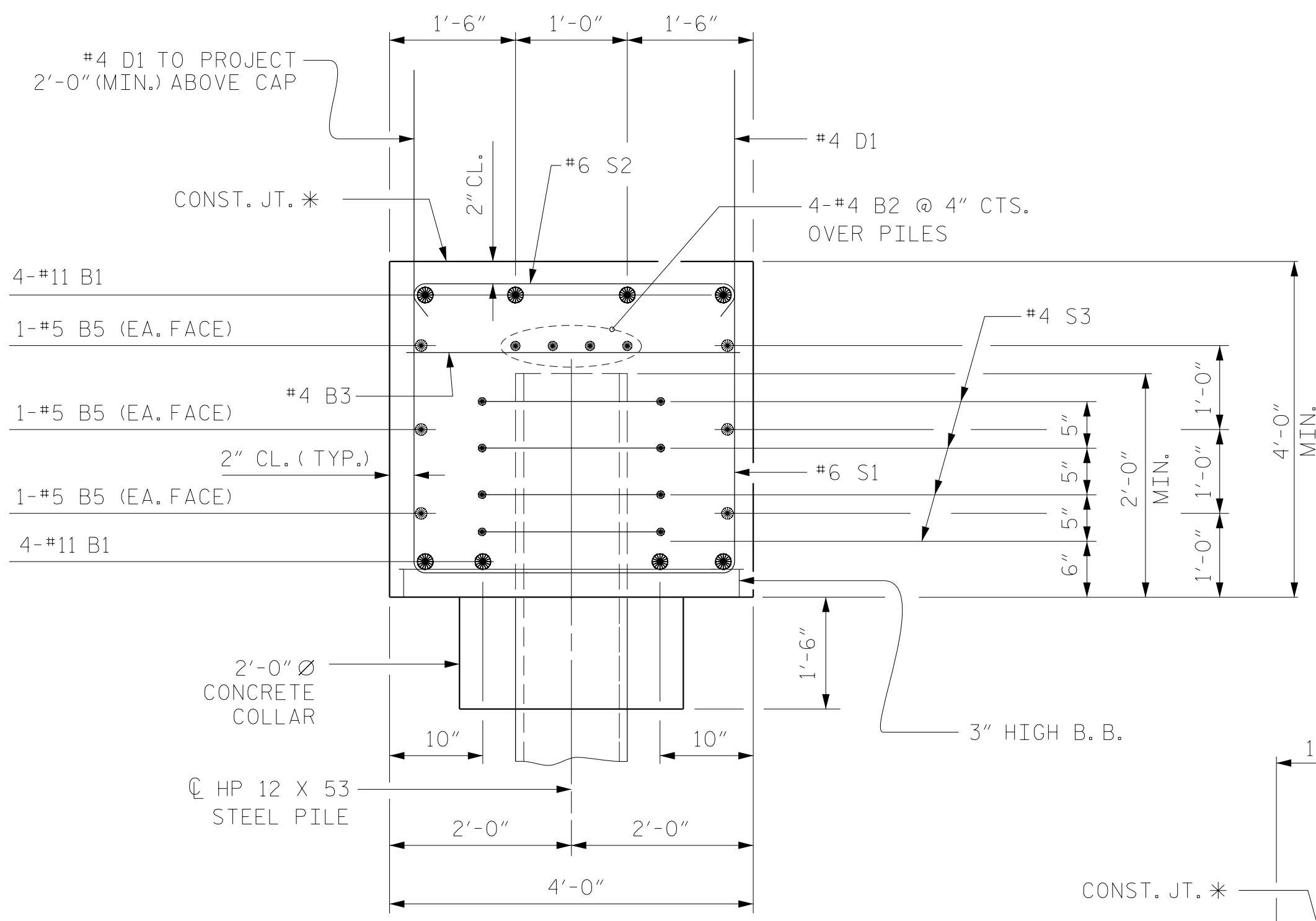
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

BAR TYPES

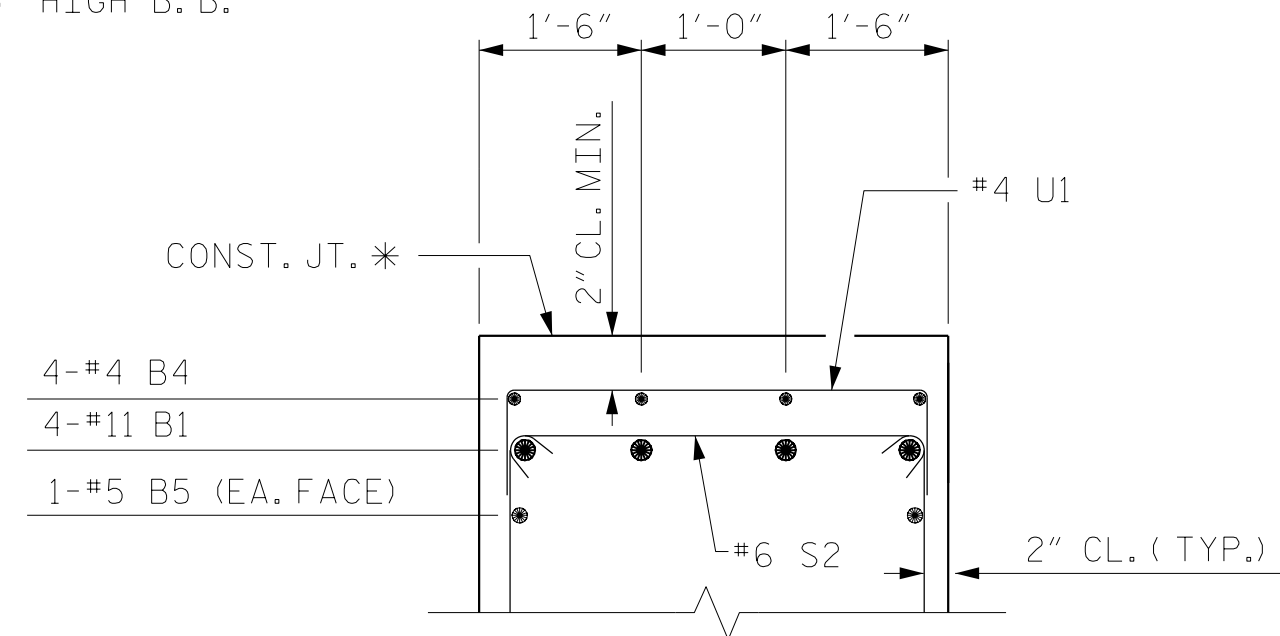


ALL BAR DIMENSIONS ARE OUT TO OUT.

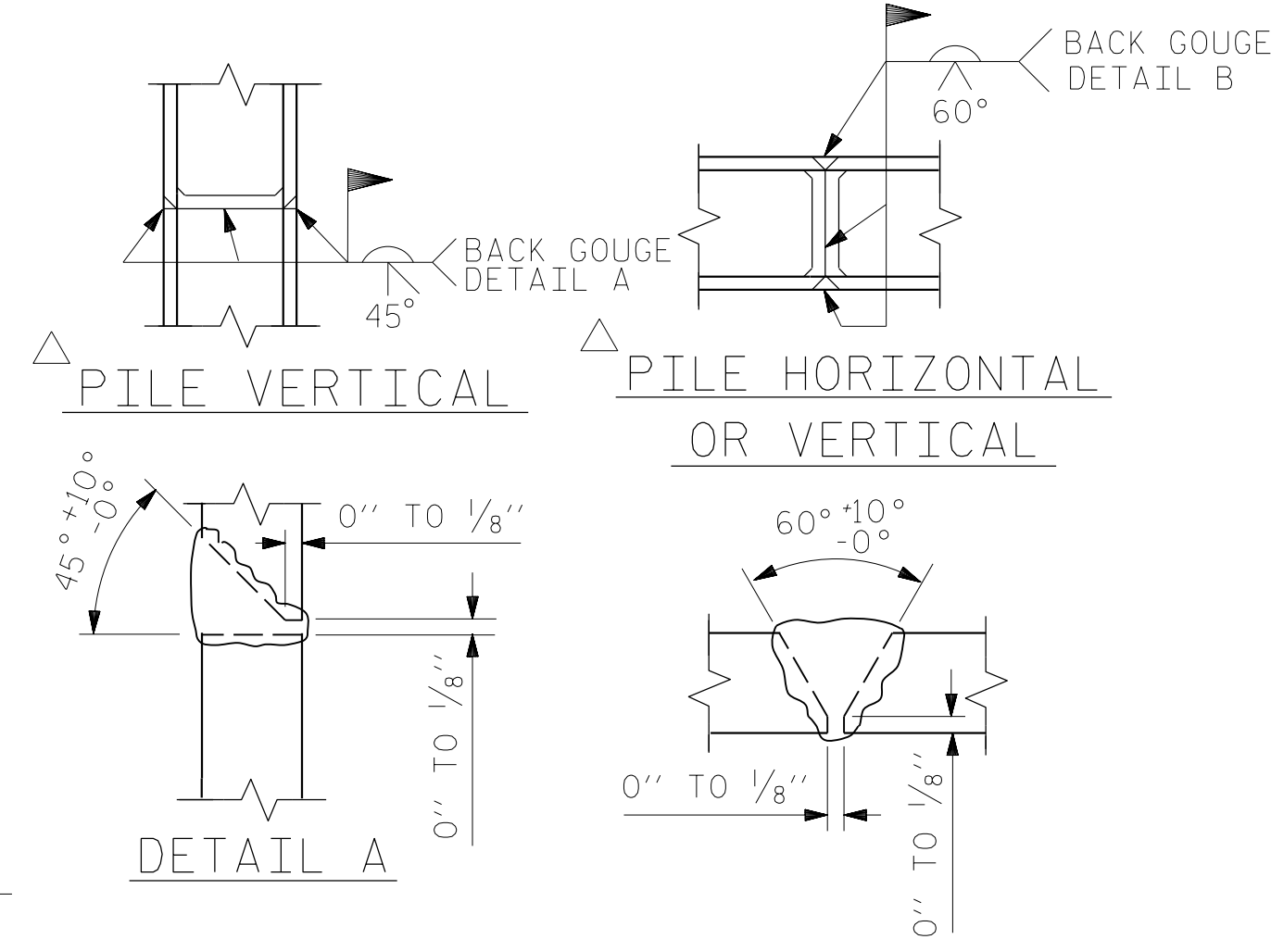


SECTION A-A

* THE TOP SURFACE OF THE END BENT CAP & WINGS, EXCLUDING THE BEARING AREA, SHALL BE RAKED TO A DEPTH OF 1/4\".



PARTIAL SECTION B-B



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

BILL OF MATERIAL

END BENT NO. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#11	1	54'-9"	2327	K1	16	#4	STR	2'-10"	30
B2	8	#4	STR	27'-1"	145	K2	16	#4	STR	2'-9"	29
B3	13	#4	STR	3'-8"	32						
B4	4	#4	STR	10'-0"	27	S1	76	#6	2	12'-3"	1398
B5	6	#5	STR	51'-7"	323	S2	76	#6	3	5'-0"	571
						S3	44	#4	4	6'-6"	191
D1	78	#4	STR	4'-0"	208						
						U1	7	#4	5	7'-0"	33
H1	2	#6	7	2'-8"	8	V1	14	#6	STR	11'-11"	251
H2	2	#6	7	3'-5"	10	V2	14	#6	STR	11'-8"	245
H3	2	#6	7	4'-2"	13	V3	4	#6	STR	11'-4"	68
H4	2	#6	7	4'-11"	15	V4	4	#6	STR	11'-0"	66
H5	2	#6	7	5'-5"	17	V5	4	#6	STR	10'-8"	64
H6	2	#6	7	6'-5"	19	V6	4	#6	STR	10'-4"	62
H7	2	#6	7	7'-2"	22	V7	4	#6	STR	10'-0"	60
H8	2	#6	7	7'-11"	24	V8	4	#6	STR	9'-8"	58
H9	2	#6	7	8'-8"	26	V9	4	#6	STR	9'-4"	56
H10	2	#6	7	9'-5"	28	V10	4	#6	STR	9'-0"	54
H11	2	#6	7	10'-2"	31	V11	4	#6	STR	8'-8"	52
H12	2	#6	7	10'-11"	33	V12	4	#6	STR	8'-4"	50
H13	2	#6	7	11'-8"	35	V13	4	#6	STR	8'-0"	48
H14	2	#6	7	12'-5"	37	V14	8	#6	STR	7'-4"	88
H15	2	#6	7	13'-2"	40	V15	4	#6	STR	7'-0"	42
H16	2	#6	7	13'-11"	42	V16	4	#6	STR	6'-8"	40
H17	2	#6	7	14'-8"	44	V17	4	#6	STR	6'-4"	38
H18	2	#6	7	15'-5"	46	V18	4	#6	STR	6'-0"	36
H19	14	#6	7	16'-6"	347	V19	4	#6	STR	5'-8"	34
H20	2	#6	8	17'-7"	53	V20	4	#6	STR	5'-4"	32
H21	2	#6	6	2'-3"	7	V21	4	#6	STR	5'-0"	30
H22	2	#6	6	3'-0"	9	V22	4	#6	STR	4'-8"	28
H23	2	#6	6	3'-9"	11	V23	4	#6	STR	4'-4"	26
H24	2	#6	6	4'-6"	14	V24	4	#6	STR	4'-0"	24
H25	2	#6	6	5'-3"	16	V25	4	#6	STR	3'-8"	22
H26	2	#6	6	6'-0"	18	V26	4	#6	STR	3'-4"	20
H27	2	#6	6	6'-9"	20	V27	4	#6	STR	2'-11"	18
H28	2	#6	6	7'-6"	23	V28	2	#6	STR	2'-8"	8
H29	2	#6	6	8'-3"	25	V29	2	#6	STR	2'-4"	7
H30	2	#6	6	9'-0"	27						
H31	2	#6	6	9'-9"	29						
H32	2	#6	6	10'-6"	32						
H33	2	#6	6	11'-3"	34						
H34	2	#6	6	12'-0"	36						
H35	2	#6	6	12'-9"	38						
H36	2	#6	6	13'-6"	41						
H37	2	#6	6	14'-3"	43						
H38	2	#6	6	15'-0"	45						
H39	2	#6	6	15'-9"	47						
H40	10	#6	6	16'-5"	247						
H41	2	#6	8	18'-0"	54						

REINFORCING STEEL	8,647 LBS.
CLASS A CONCRETE	
POUR #1	
CAP, CONCRETE COLLARS & LOWER PART OF WINGS	36.4 C. Y.
POUR #2	
UPPER PART OF WINGS	11.1 C. Y.
TOTAL	47.5 C. Y.
HP 12 X 53 STEEL PILES	
NO. 11	440 LIN. FT.
STEEL PILE POINTS	NO.: 11

PILE DRIVING EQUIPMENT SETUP NO. 11

PROJECT NO. R-2707C
CLEVELAND COUNTY
 STATION: 384+50.00 -L-

SHEET 4 OF 4

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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 INTEGRAL
 END BENT NO. 1
 RIGHT LANE

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S2-26
2			4			TOTAL SHEETS 36

DRAWN BY :	PDS	DATE :	11/2016
CHECKED BY :	TLC	DATE :	01/2017
DESIGN ENGINEER OF RECORD:	MAL	DATE :	11/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED