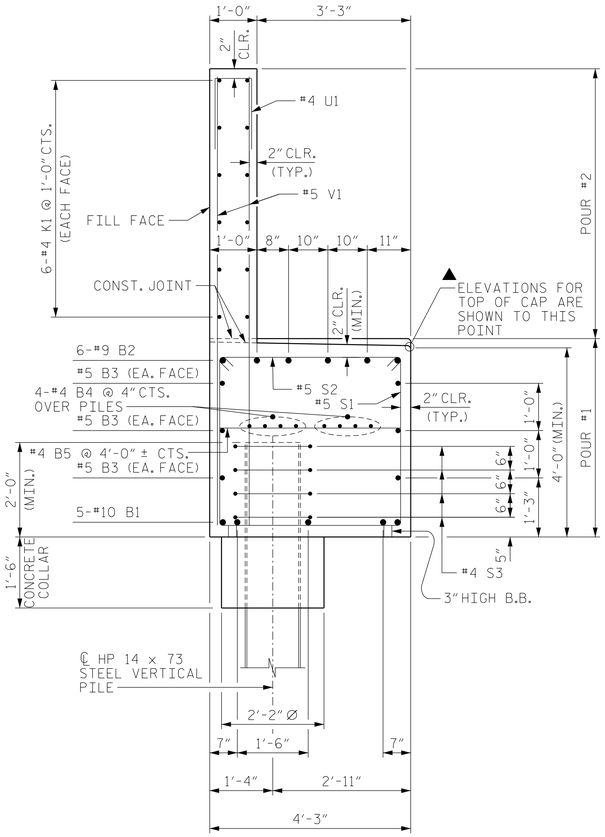
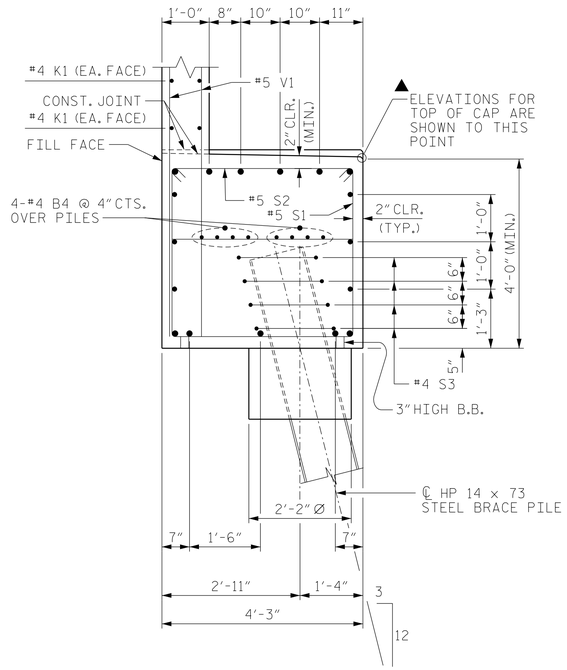
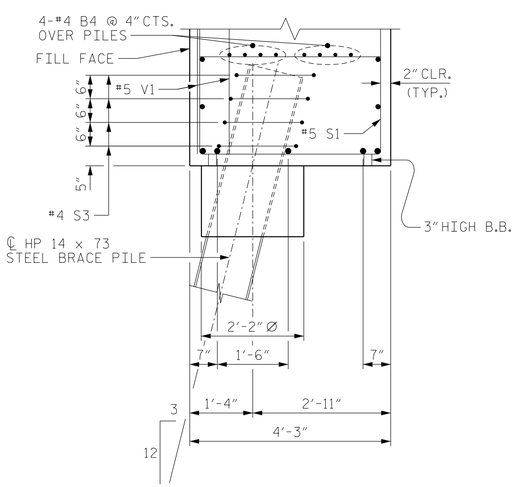


SECTION A-A



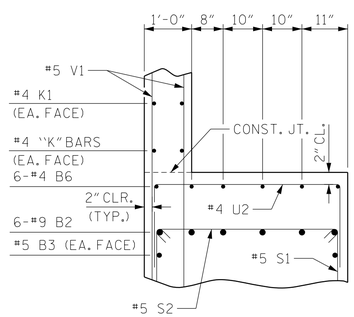
SECTION B-B

FOR ADDITIONAL BARS AND DIMENSIONS, SEE SECTION A-A



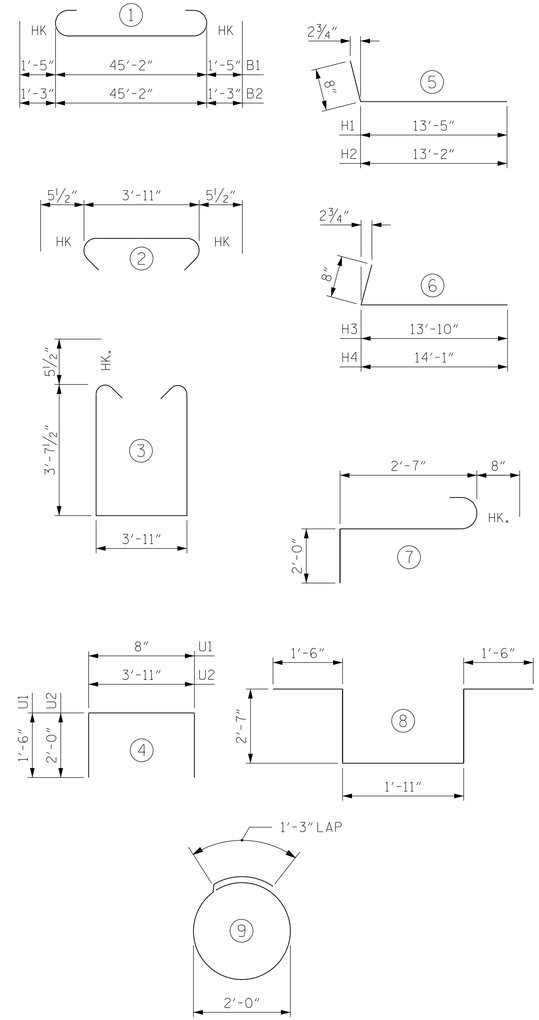
SECTION C-C

FOR ADDITIONAL BARS AND DIMENSIONS, SEE SECTION A-A



SECTION D-D

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	5	#10	1	48'-0"	1033
B2	6	#9	1	47'-8"	972
B3	6	#5	STR	45'-2"	283
B4	16	#4	STR	23'-10"	255
B5	11	#4	STR	3'-11"	29
B6	18	#4	STR	3'-2"	38
H1	13	#4	5	14'-1"	122
H2	13	#4	5	13'-10"	120
H3	14	#4	6	14'-6"	136
H4	14	#4	6	14'-9"	138
K1	24	#4	STR	23'-10"	382
K2	4	#4	STR	6'-9"	18
K3	2	#4	STR	3'-10"	5
K4	8	#4	STR	3'-5"	18
S1	42	#5	3	12'-1"	529
S2	42	#5	2	4'-10"	212
S3	36	#4	9	7'-6"	180
S4	6	#6	7	5'-3"	47
S5	6	#6	8	10'-1"	91
U1	38	#4	4	3'-8"	93
U2	12	#4	4	7'-11"	63
V1	76	#5	STR	9'-7"	760
V2	72	#5	STR	6'-10"	513
V3	74	#5	STR	7'-4"	566

REINFORCING STEEL 6603 LBS.

CLASS A CONCRETE BREAKDOWN	
POUR #1 (CAP & LOWER PART OF WINGS)	37.3 C.Y.
POUR #2 (BACKWALL & UPPER PART OF WINGS)	18.5 C.Y.
TOTAL	55.9 C.Y.

HP 14 X 73 STEEL PILES	NO.: 11 517.0 LIN. FT.

PILE DRIVING EQUIPMENT SETUP FOR HP 14 X 73 STEEL PILES EA. 11

PROJECT NO. R-5771

HENDERSON COUNTY

STATION: 20+77.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1 DETAILS AND BILL OF MATERIAL

NORTH CAROLINA PROFESSIONAL SEAL 027799 ENGINEER ALLYSON K. ORR
3/28/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			
2			4			

SHEET NO. S-22
TOTAL SHEETS 29

DRAWN BY :	B.E. LANNING	DATE :	02/17
CHECKED BY :	A.K. ORR	DATE :	02/17
DESIGN ENGINEER OF RECORD :	A.K. ORR	DATE :	03/17

3/28/2017
11:11:00 AM
User: blanning
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