

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 DETER-MINES 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

CONST. JT.—

5-#4 B7-

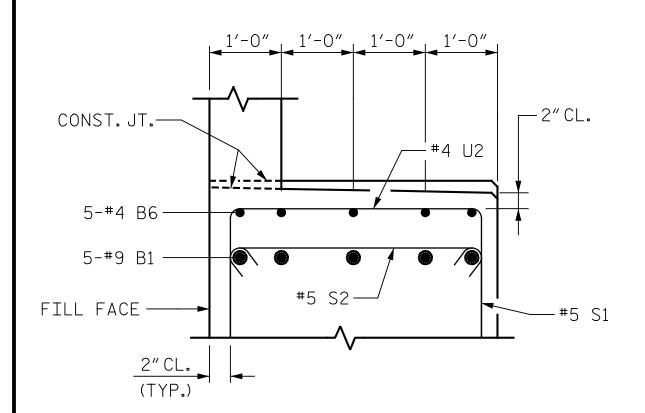
5-#9 B8 —

2"CL.

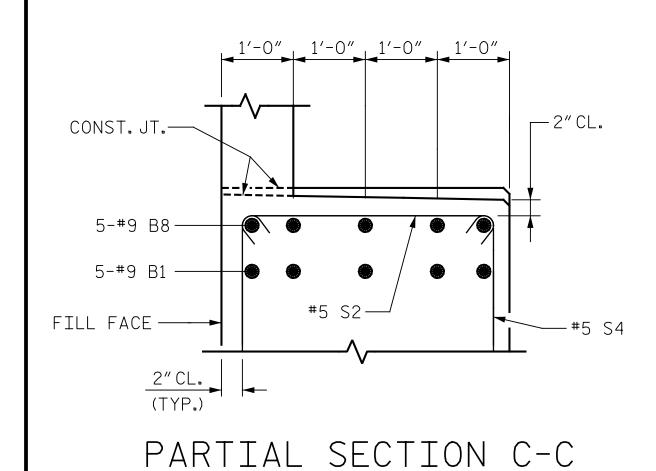
PARTIAL SECTION D-D

(TYP.)

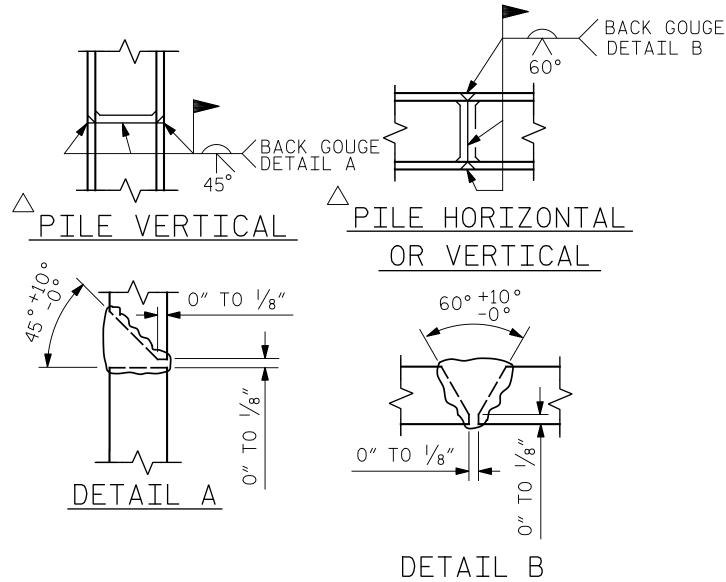
FILL FACE ----



PARTIAL SECTION B-B

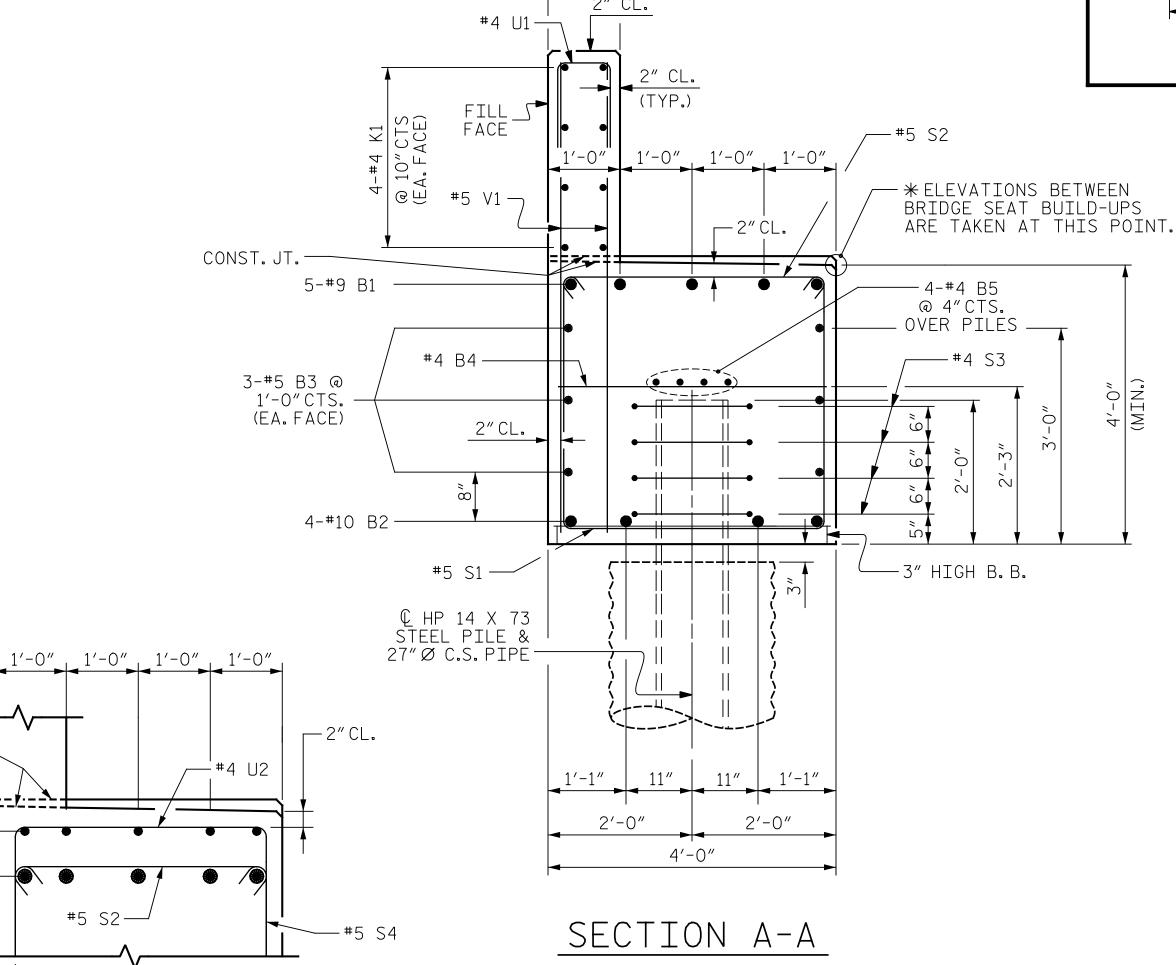


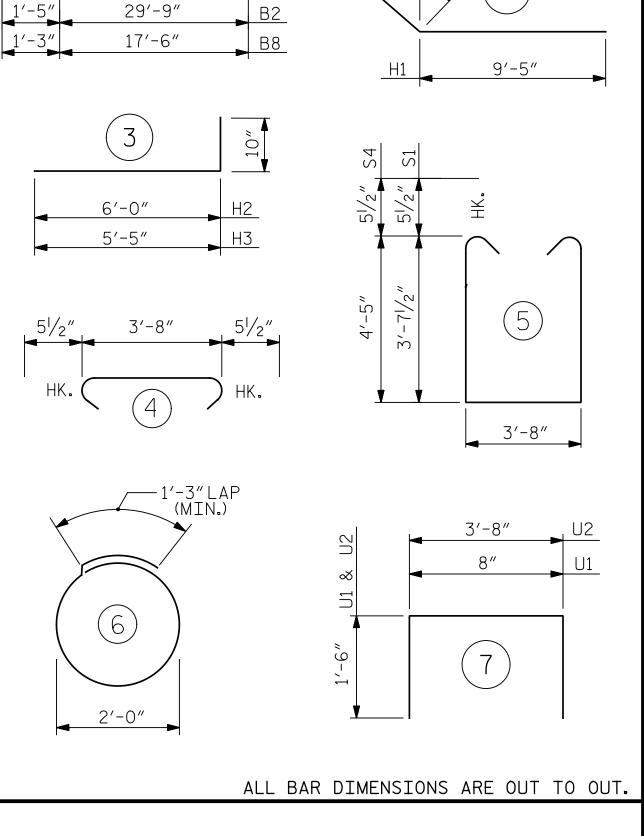
DRAWN BY : J.A. BOYER DATE : <u>09/26/17</u> CHECKED BY : R.F. WERTMAN __ DATE : 10/07/17 DESIGN ENGINEER OF RECORD : R.F. WERTMAN DATE : 11/06/17



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS





BAR TYPES

OUR #1 (CAP & LOWER WINGS) 34.3 C.Y OUR #2 (UPPER WINGS & BACKWALL) 8.1 C.Y TOTAL 42.4 C.Y HP 14 X 73 STEEL PILES 504 LIN. FT No. = 7PILE DRIVING EQUIPMENT SETUP FILL FACE 7 EACH FOR HP 14 X 73 STEEL PILES PILE REDRIVES 7 EACH 2.42 K/FT. (FACTORED)

TIE BACK DETAILS

(DETAIL SHOWING TIE BACK RESTRAINT FOR END BENT)

2610 Wycliff Road



Dechaul F Vietna 08901A86EBF6470. 11/7/2017

OCUMENT NOT CONSIDEREI FINAL UNLESS ALL SIGNATURES COMPLETED

SUBSTRUCTURE

STATION: 21+57.23 -L-

BILL OF MATERIAL

END BENT #1

TYPE | LENGTH | WEIGHT

727

1073

342

30

145

36

44

319

321

93

85

264

4

481

282

142

280

101

72

549

187

103

5,704 LBS

42'-9"

31'-2"

3′-8″

6′-6″

18'-9"

6′-3″

11'-10"

4'-7"

7′-7″

13′-5″

3′-8″

6′-8″

9'-4"

STR | 6'-5"

STR | 8'-1"

STR

CLASS A CONCRETE

STR | 27'-4"

STR | 27'-0"

STR | 10'-9"

2 | 10'-3"

3 | 6'-10"

STR | 24'-8"

STR 4'-8"

STR | 1'-8"

STR | 2'-5"

STR

STR

STR

SIZE

#10

#5

#5

#5

#4

#5

#5

#5

#4

#5

#4

#4

No.

8

30

13

13

3

3

39

59

28

20

82

30

19

REINFORCING STEEL

PROJECT NO. __

SHEET 3 OF 3

CUMBERLAND

В4

В5

В6

В8

H2

Н3

Κ1

K2

K3

Κ4

S1

S2

S3

S4

U2

V1

٧2

V3

END BENT #2

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

41665.7A

109+69.94 -L2-

_ COUNTY

SHEET NO REVISIONS NO. BY: S01-21 DATE: DATE: TOTAL SHEETS

Gannett Fleming Raleigh NC 27607-3 (919) 420-7660 Excellence Delivered As Promised NC Lic. No. F-0270

STR.NO.1