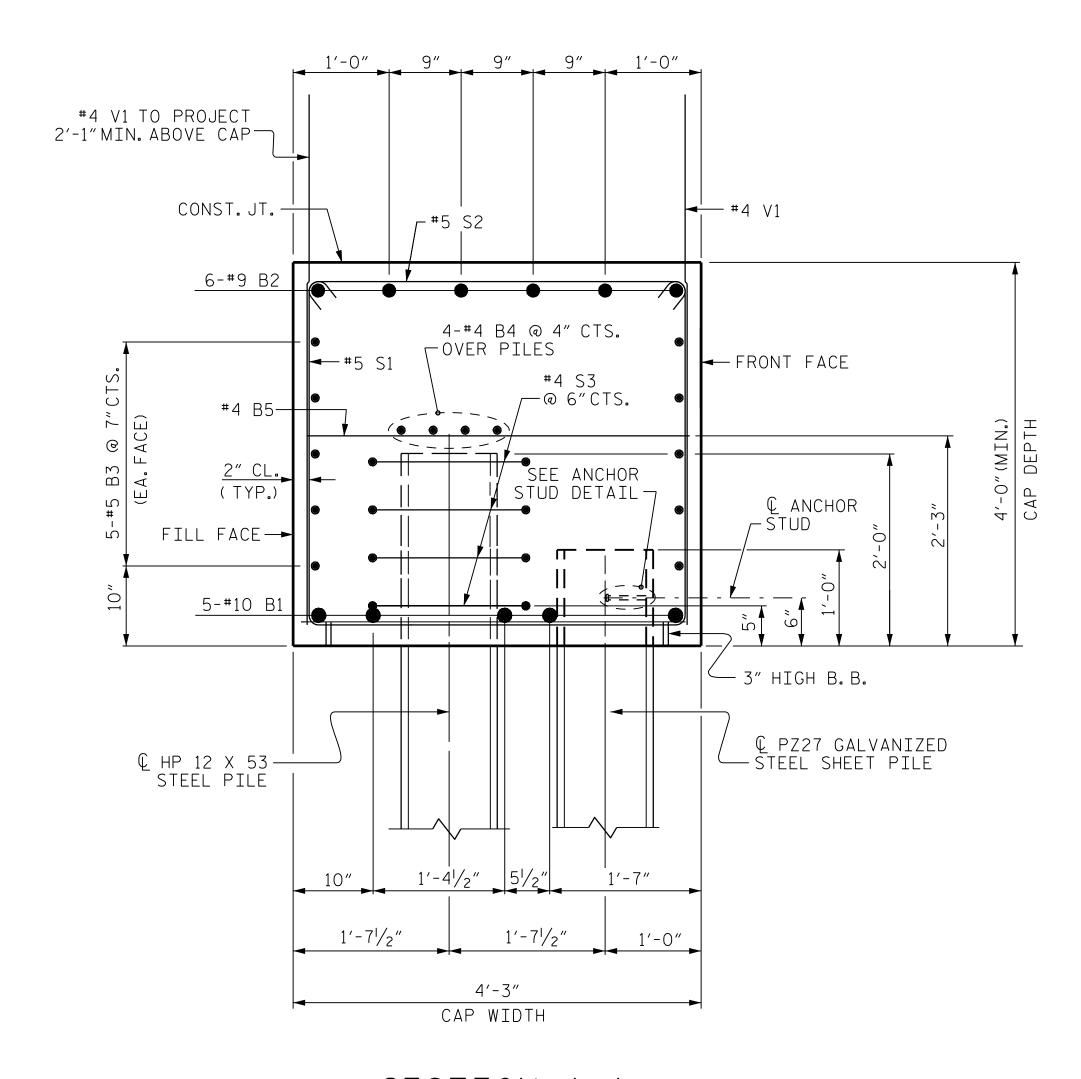


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

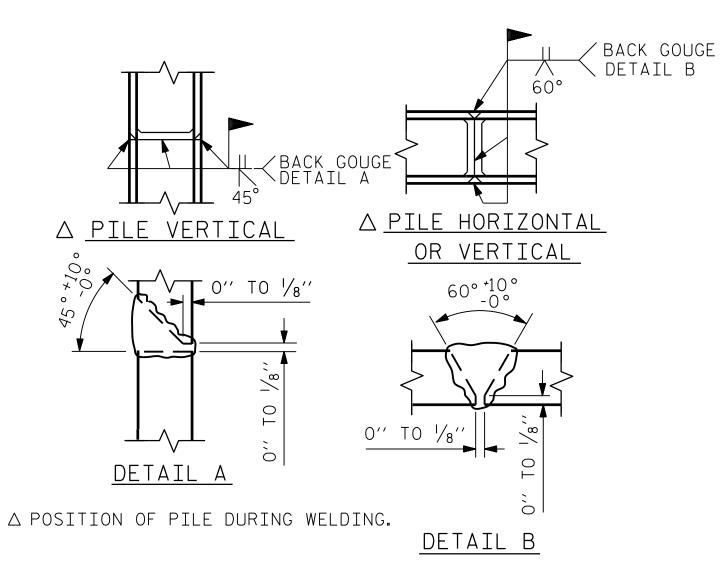
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

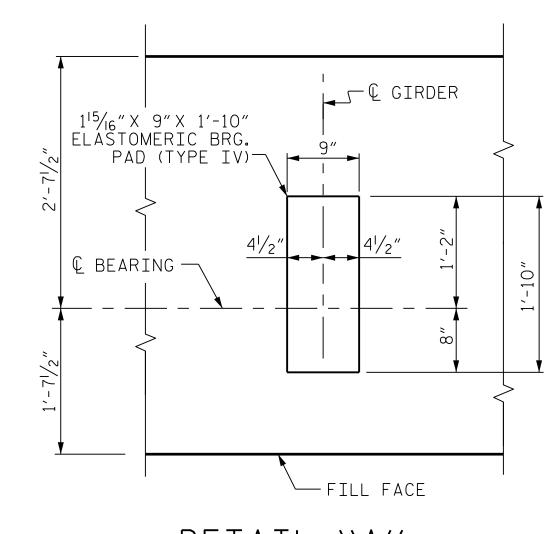
## TEMPORARY DRAINAGE AT END BENT



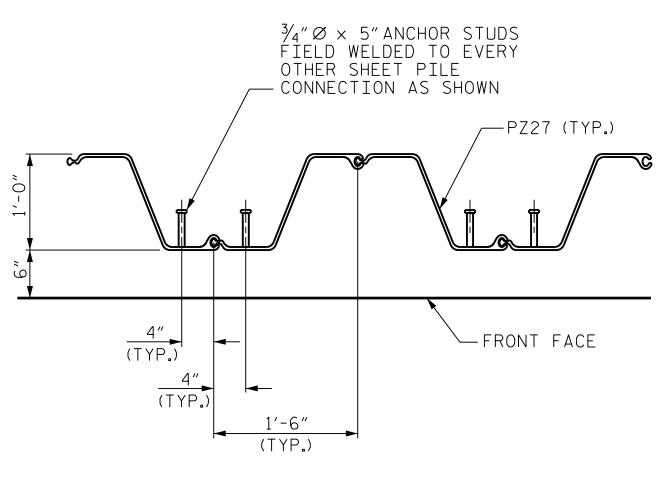
SECTION A-A BURN 11/2" Ø MAX. HOLE IN SHEET PILE FOR #4 S1 BARS



## PILE SPLICE DETAILS



DETAIL "A" (END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)



ANCHOR STUD DETAIL

**CDM** 

CDM SMITH 5400 Glenwood Avenue, Suite 400 Raleigh, NC 27612–3228 NC COA No. F–1255

— BAR TYPES —

1'-3<u>"</u> B2

4

20'-2"

1'-8" Ø

- 1'-3"LAP

50′-6″

3'-11"

1'-8"

ALL BAR DIMENSIONS ARE OUT TO OUT.

3'-11"

1'-8"

61/2

54 51/2"

SEAL 16301 : NOINEEP Ting Fang **7/2004329042**4160462

H1 10 #4 20'-10" 139 4 K1 24 #4 STR 4′-6″ S1 92 #5 2 12'-1" 1159 S2 92 #5 4'-10" 464 S3 32 #4 6′-6″ 139 69 40 #4 2'-7" S5 4'-10" 129 40 #4 2 72 #4 STR 6'-2" 305 V1 STR 134 ٧2 24 #4 8'-4" REINFORCING STEEL LBS. 5,543 CLASS A CONCRETE BREAKDOWN: POUR #1 - CAP C.Y. 32.8 POUR #2 - WINGS C.Y. POUR #3 - COPINGS C.Y. C.Y. 38.8 TOTAL CLASS A CONCRETE HP 12 x 53 STEEL PILES NO. = 8 LIN.FT. 520 PILE DRIVING EQUIPMENT EA. SETUP FOR HP 12X53 STEEL PILES PDA TESTING EA. PILE REDRIVES EA. 18" STEEL SHEET PILE SYSTEM: PZ27 - NO: 62 SQ.FT. = 2,384

BILL OF MATERIAL

FOR ONE END BENT

#10

#9

#5

#4

#4

BAR

В1

В2

В3

В4

В5

NO.

6

10

8

13

(2 REQUIRED)

STR STR

STR

SIZE TYPE LENGTH WEIGH

53′-4″

53'-0"

50'-8"

26'-7"

3'-11"

1147

1081

528

142

34

PROJECT NO. B-5624 BRUNSWICK \_COUNTY STATION: 17+46.00 -L-

SQ.FT. = 41

SQ.FT. = 2,425

SHEET 4 OF 4

PZ90 - NO: 2

TOTAL NO: 64

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENTS 1 & 2 (INTEGRAL)

REVISIONS SHEET NO <u>S-17</u> NO. BY: DATE: DATE: TOTAL SHEETS 20

DWG. No.

CHECKED BY : \_

DESIGN ENGINEER : \_

DOCUMENT NOT CONSIDEREI FINAL UNLESS ALL

SIGNATURES COMPLETED

JJR DATE: 9/20
THF DATE: 10/20
VDK DATE: 11/20