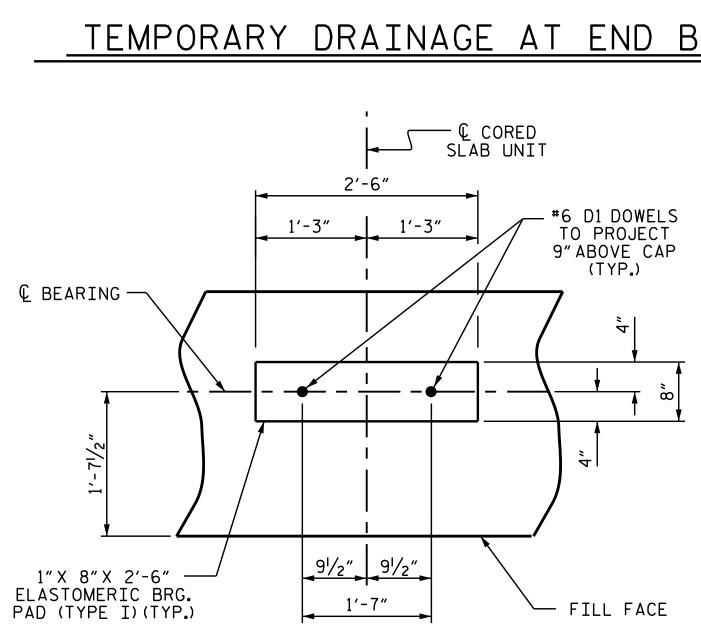


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

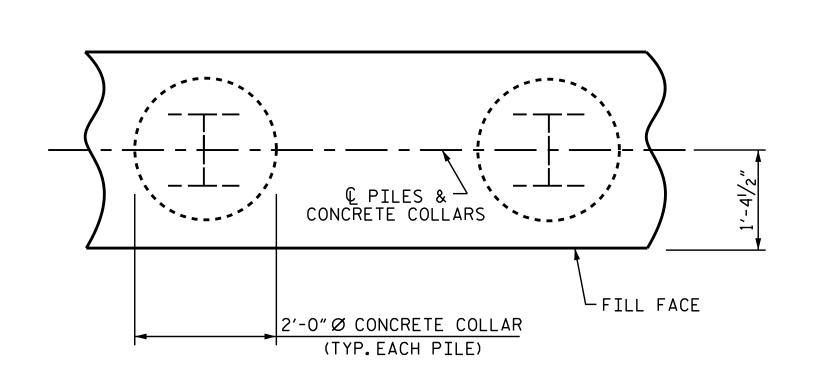
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



DETAIL "A" (END BENT No. 1 SHOWN, END BENT No. 2 SIMILAR BY ROTATION)

1'-7"

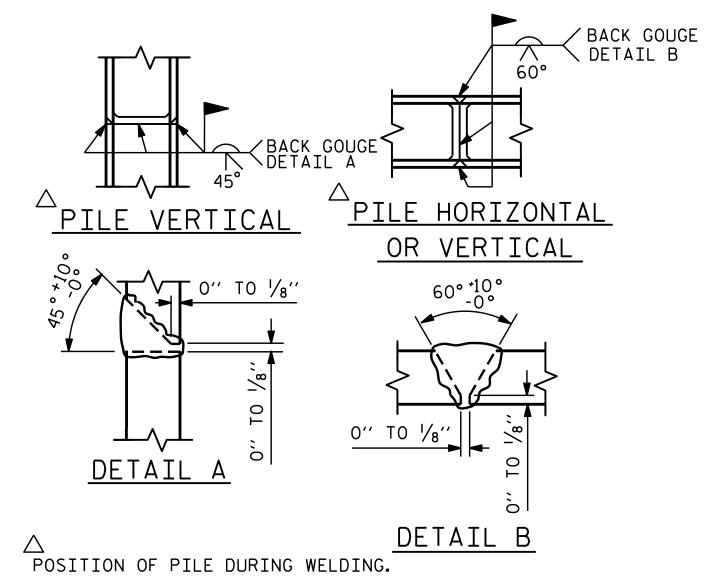


ELEVATION PLAN CORROSION PROTECTION FOR STEEL PILES DETAIL

(END BENT No.1 SHOWN, END BENT No.2 SIMILAR BY ROTATION)

FILL FACE

ASSEMBLED BY: T.L. AVERETTE DATE: 04/16 CHECKED BY: J.P. ADAMS DATE: 4/2016 DRAWN BY: WJH 12/11 CHECKED BY : AAC 12/11



PILE SPLICE DETAILS

|| | | |

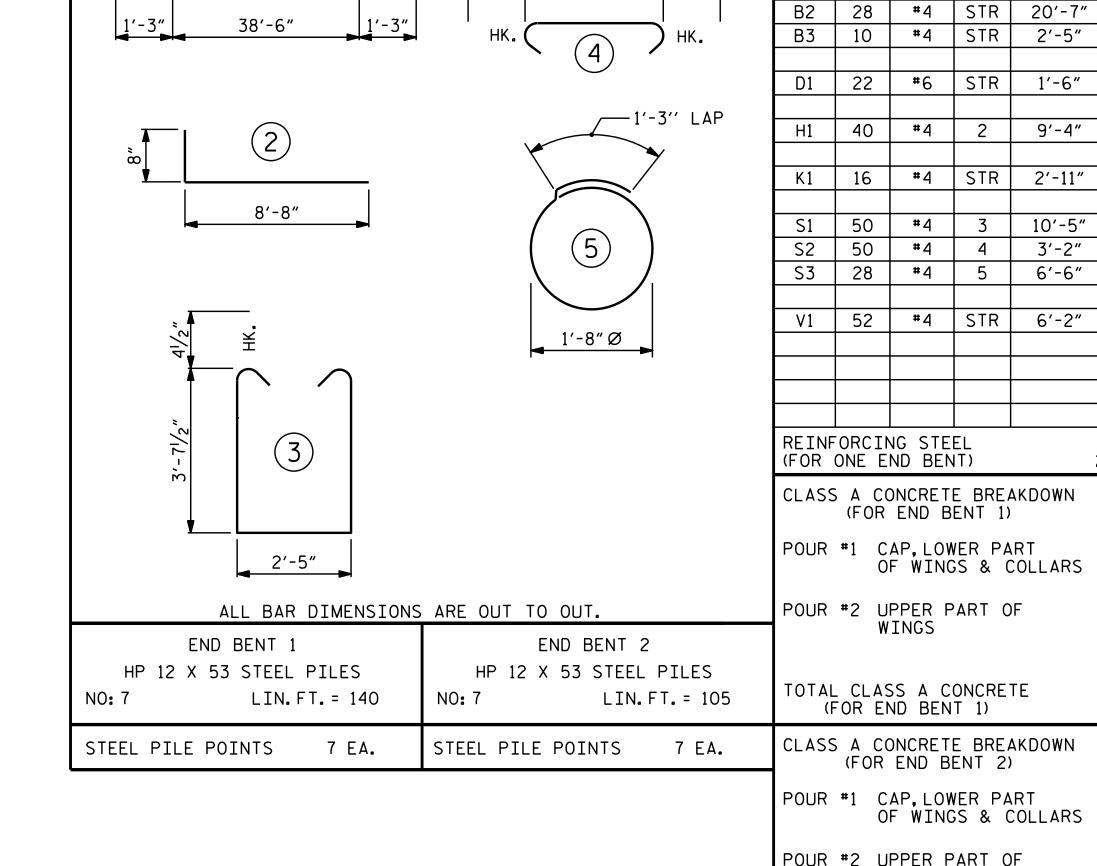
2'-0"

BOTTOM OF CAP

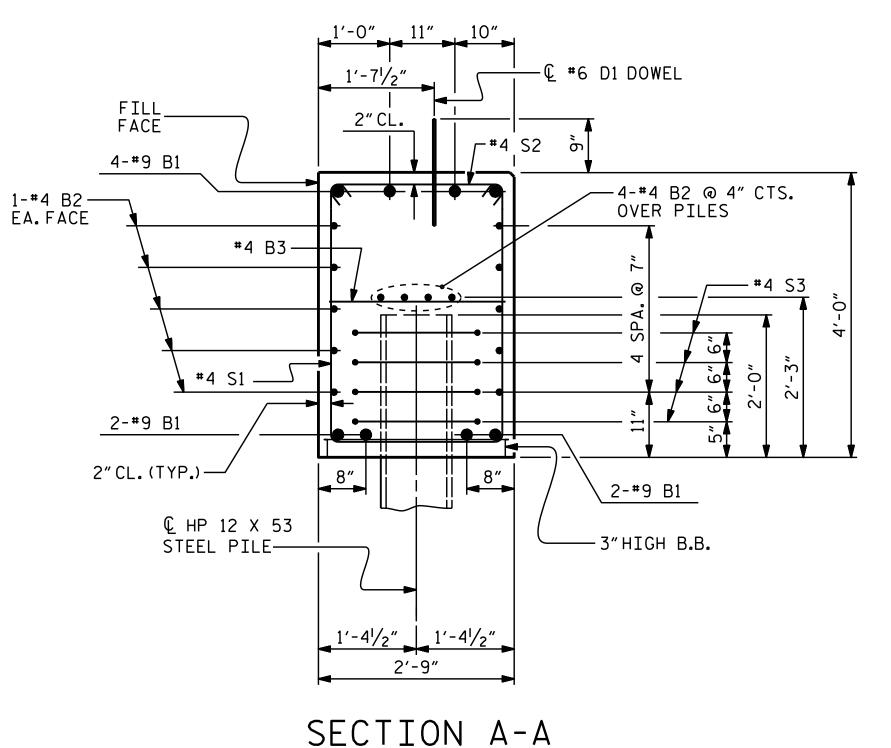
CONCRETE —

© HP 12 X 53 STEEL PILE

COLLAR



BAR TYPES



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

B-5166 PROJECT NO._ GRANVILLE _ COUNTY STATION: 16+34.00 -L-

BILL OF MATERIAL

FOR ONE END BENT

#4 | STR | 20'-7"

#4 | STR | 2'-5"

1 | 41'-0" |

2 | 9'-4"

4 3'-2"

6′-6"

5

OF WINGS & COLLARS

OF WINGS & COLLARS

WINGS

WINGS

TOTAL CLASS A CONCRETE

(FOR END BENT 2)

1115

385

16

50

249

31

348

106

122

214

2636 LBS.

19.5 C.Y.

2.1 C.Y.

21.6 C.Y.

19.5 C.Y.

2.3 C.Y.

21.8 C.Y.

BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT

#9

#4

#4

SHEET 4 OF 4

SEAL 29441

32 YOMES

the 2.0. aford

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SUBSTRUCTURE

END BENT 1 & 2 DETAILS

SHEET NO REVISIONS 2/22/2017 S-16 DATE: DATE: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED BY: TOTAL SHEETS 20

22-FEB-2017 08:00
R:\Structures\Plans\Sub_Draw\B5166_SD_E*.dgn
kalford