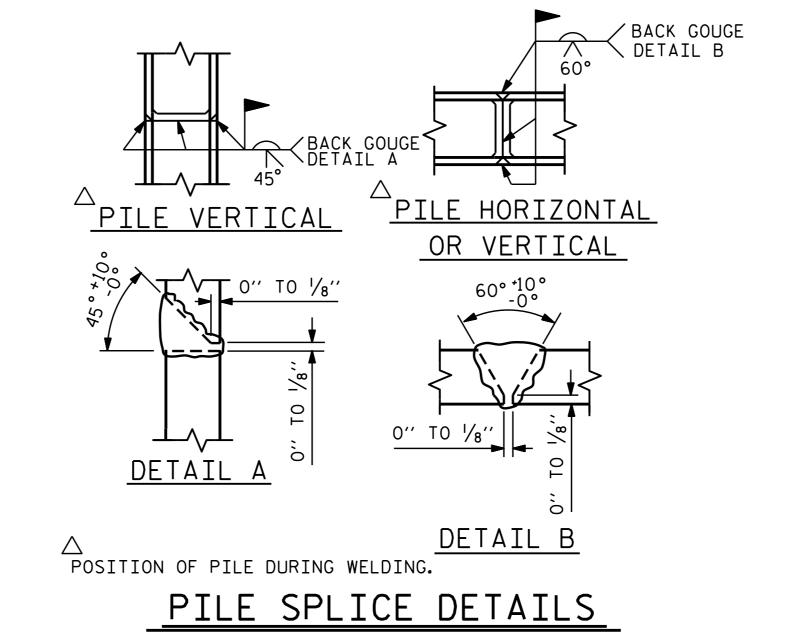


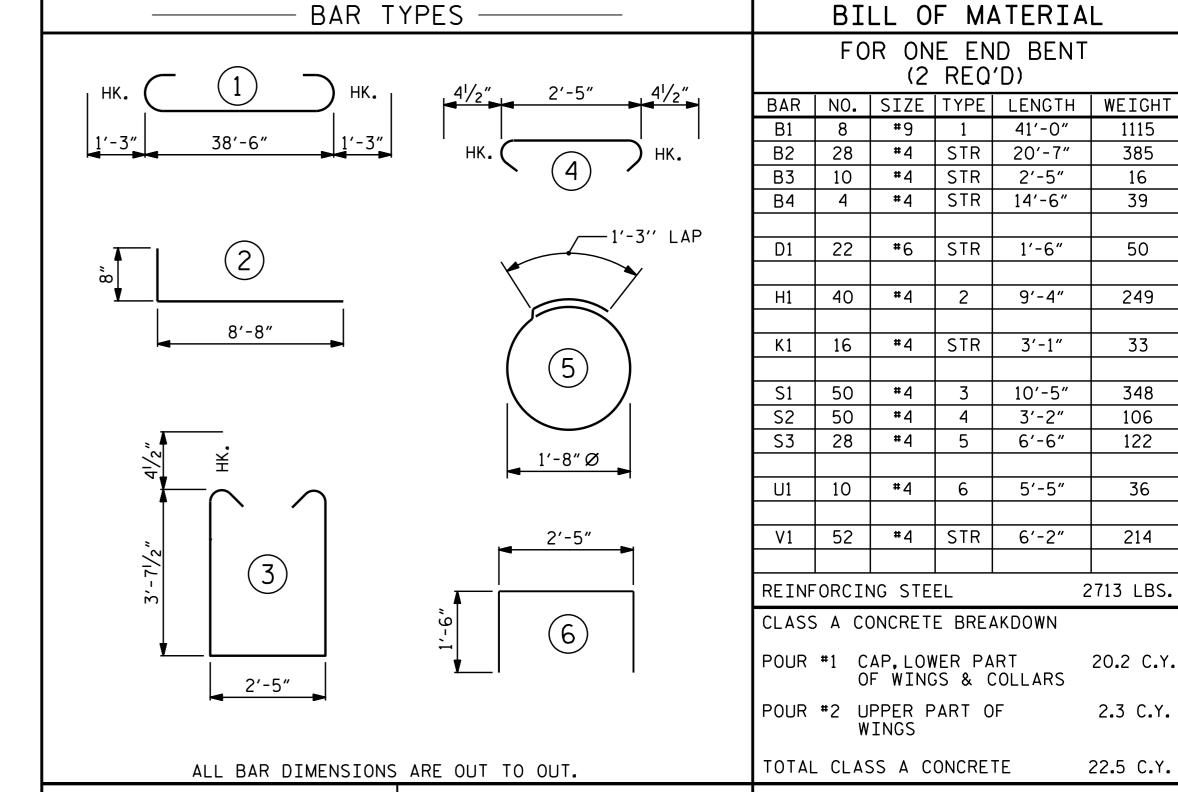
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

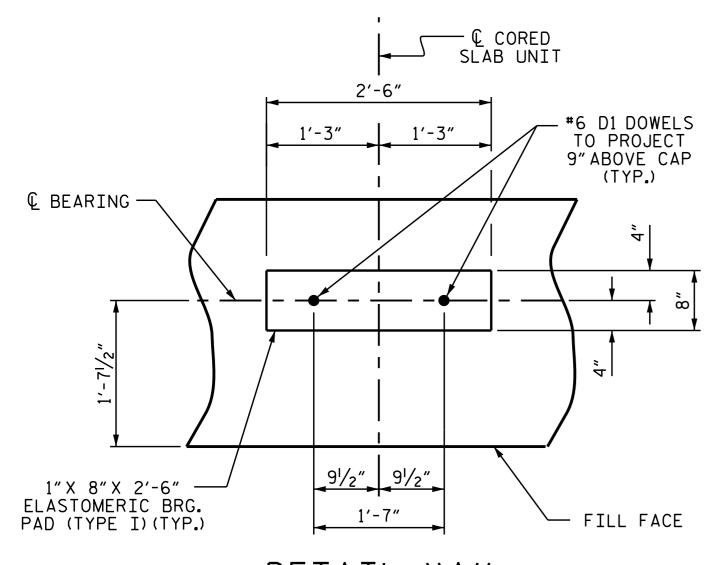
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

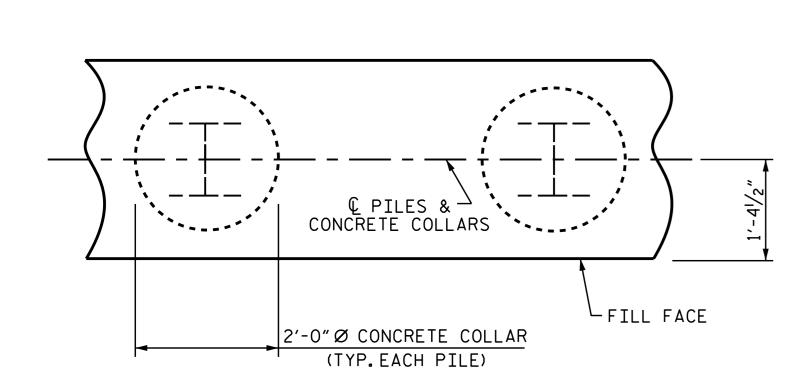




TOTAL CLASS A CONCRETE END BENT 1 END BENT 2 HP 12 X 53 STEEL PILES HP 12 X 53 STEEL PILES NO: 7 LIN. FT.= 105 | NO: 7 LIN. FT.= 70 STEEL PILE POINTS PILE EXCAVATION IN SOIL LIN.FT.= 38 PILE EXCAVATION NOT IN SOIL LIN. FT.= 32



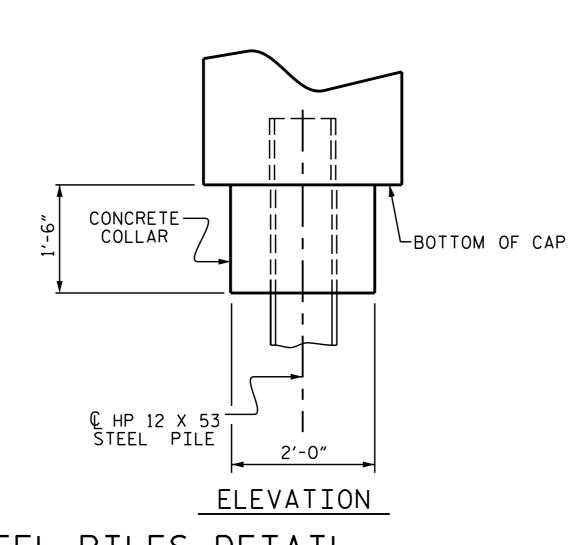
DETAIL "A" (END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)



PLAN

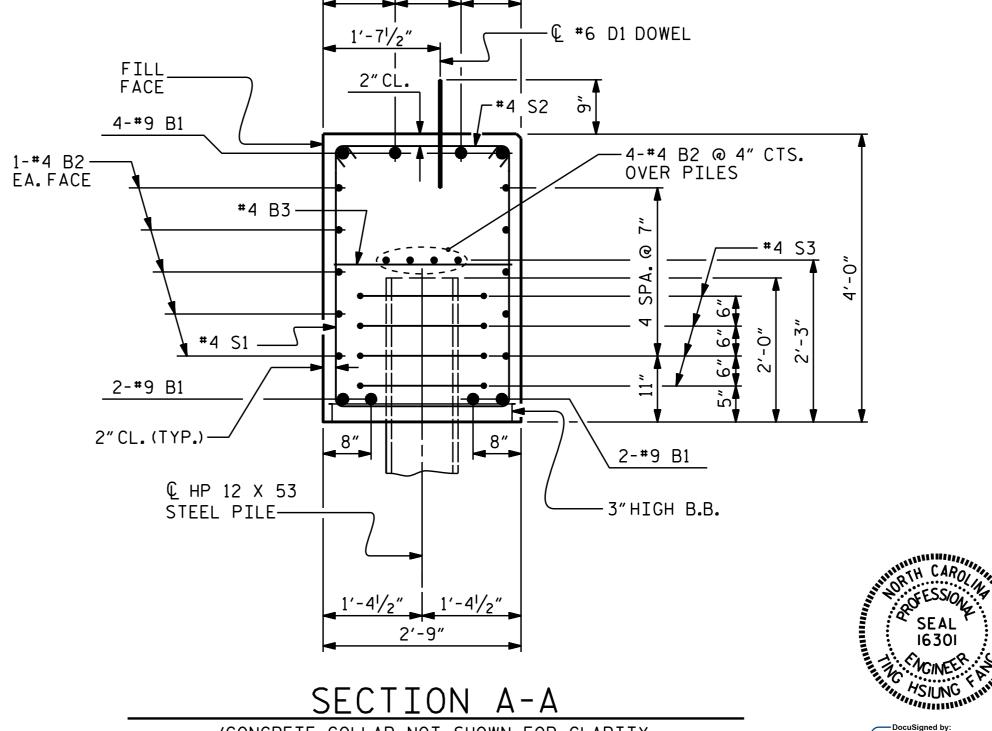
CORROSION PROTECTION FOR STEEL PILES DETAIL (END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)

ASSEMBLED BY : Z. J. O'KEEFE DATE: 7/2014 CHECKED BY : P.K. NEWTON DATE: 6/25/15 DRAWN BY: WJH 12/11 CHECKED BY : AAC 12/11



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

. 1'-0" . 11" . 10"



PROJECT NO. B-5342 ALAMANCE COUNTY STATION: 14+38.00 -L-

BILL OF MATERIAL

FOR ONE END BENT

(2 REQ'D)

28 #4 STR 20'-7"

10 #4 STR 2'-5"

4 #4 STR 14'-6"

16 | #4 | STR | 3'-1"

H1 | 40 | #4 | 2 | 9'-4"

V1 | 52 | #4 | STR | 6'-2"

OF WINGS & COLLARS

S1 | 50 | #4 | 3 S2 | 50 | #4 | 4 |

S3 | 28 | #4 | 5

U1 | 10 | #4 | 6

WINGS

41'-0"

10'-5"

3'-2"

6'-6"

5′-5″

1115

16

39

50

249

33

348

106

122

36

214

2713 LBS.

20.2 C.Y.

2.3 C.Y.

22.5 C.Y.

385

SHEET 4 OF 4

Ting H. Jong

9/15/2015

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENTS 1 & 2 DETAILS

REVISIONS						SHEET NO
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			18