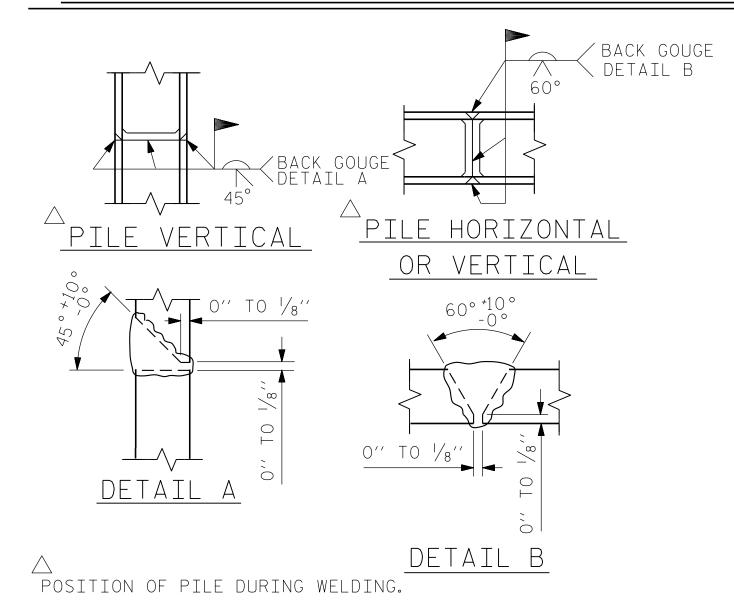


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

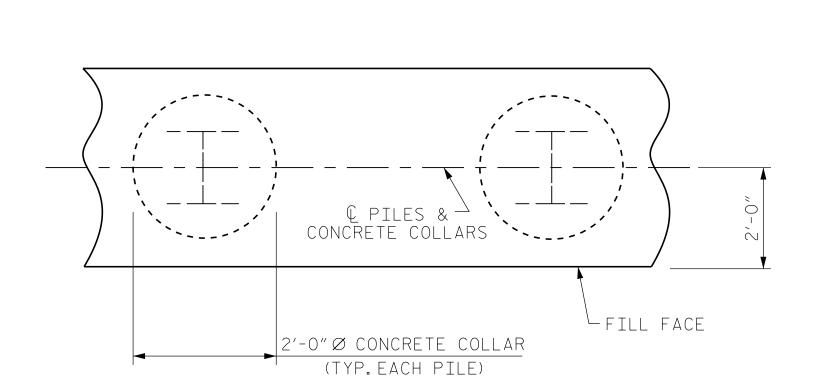
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



PILE SPLICE DETAILS



ELEVATION PLAN CORROSION PROTECTION FOR STEEL PILES DETAIL

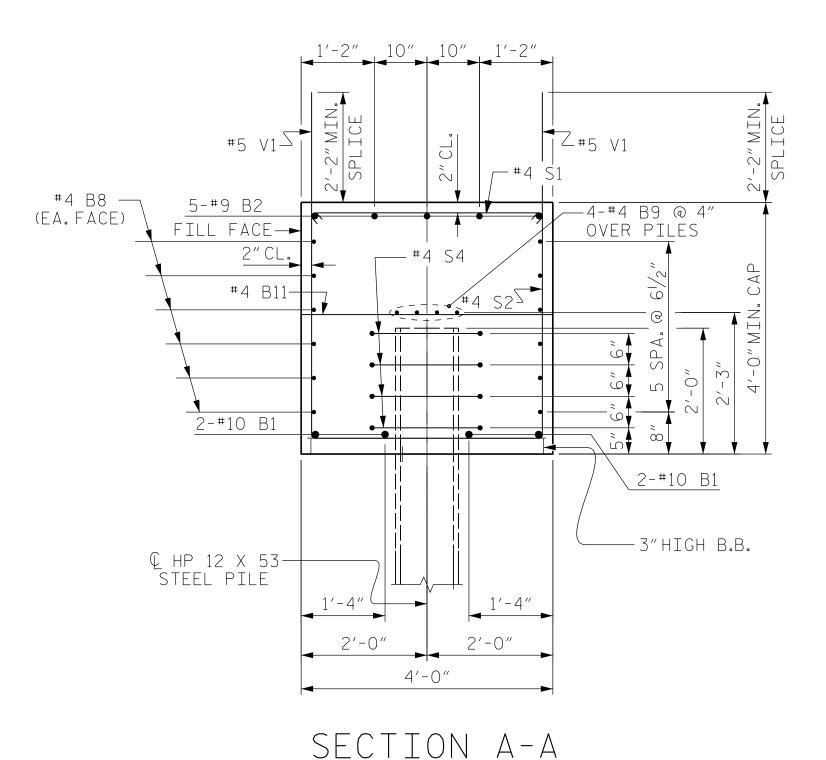
CONCRETE —

₽ HP 12 X 53

STEEL PILE

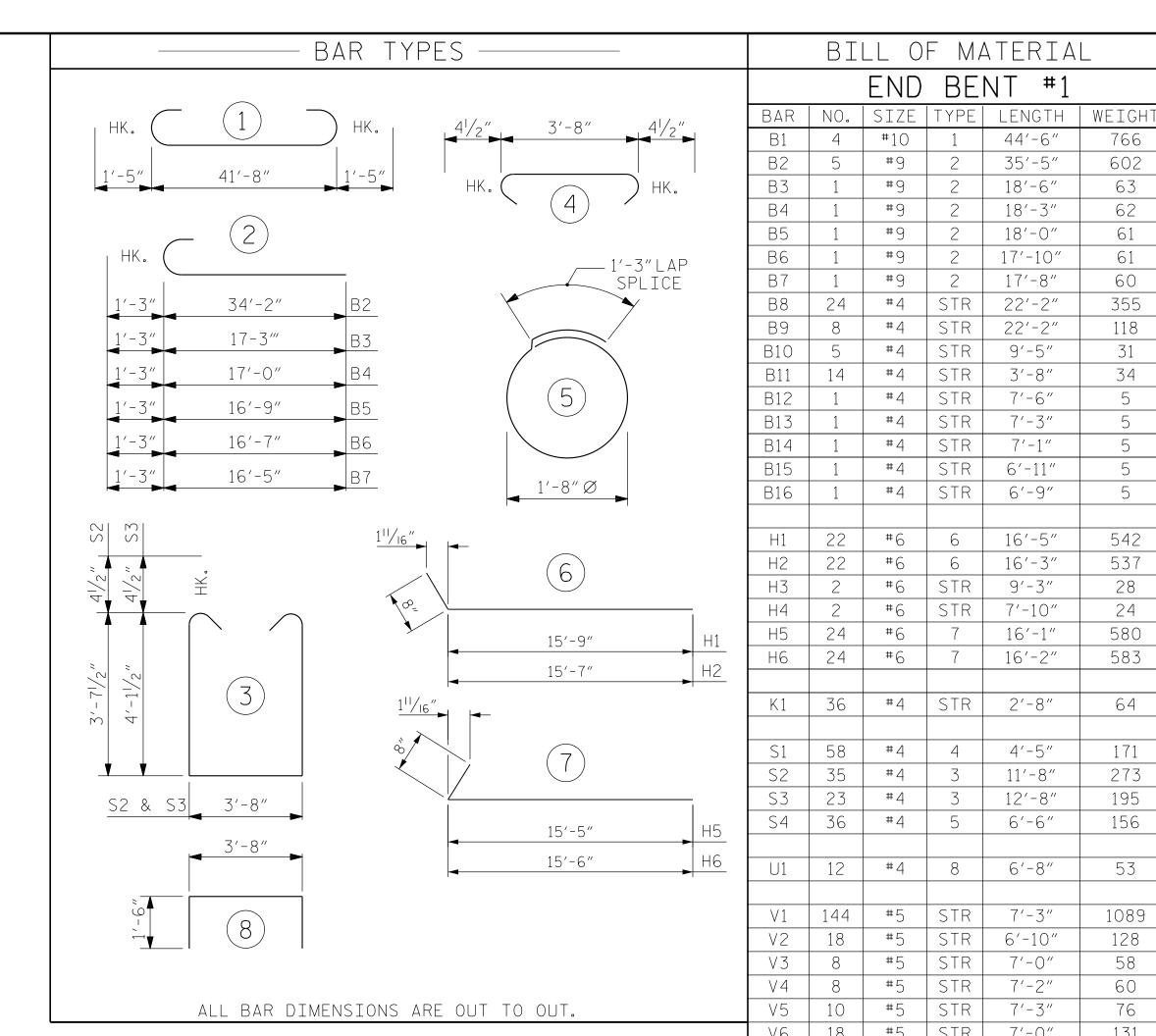
2'-0"

COLLAR



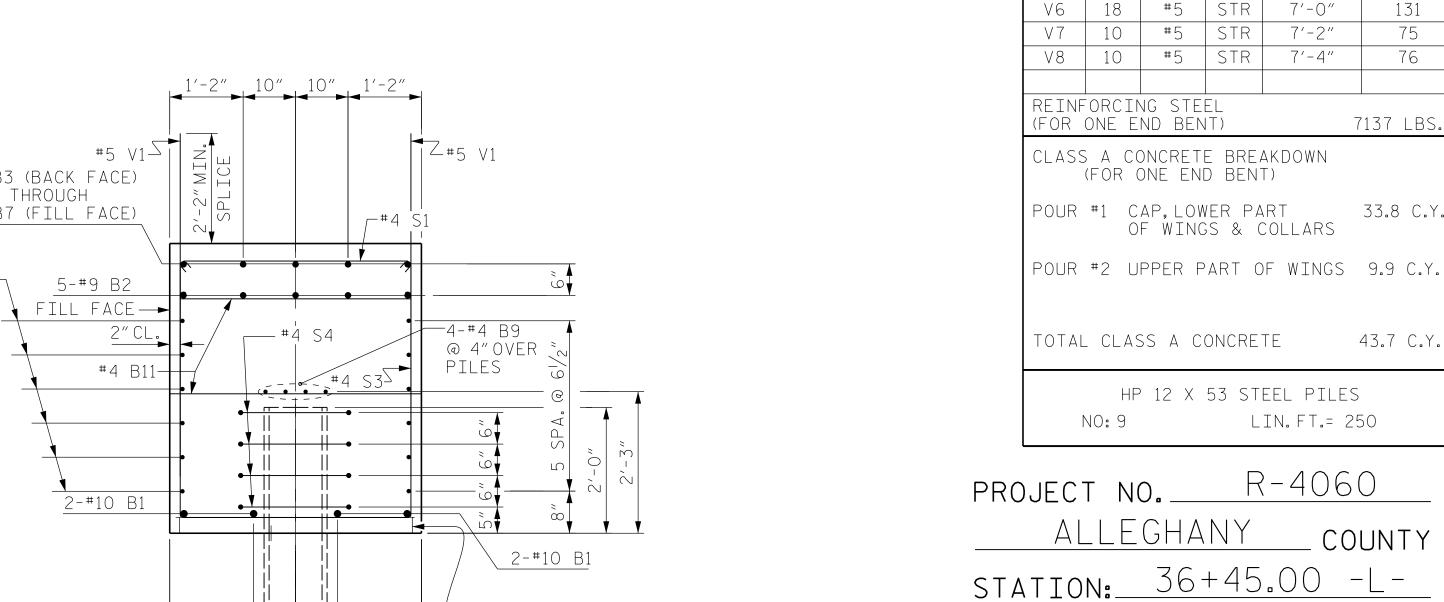
(CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL."

-BOTTOM OF CAP



#5 V1 #9 B3 (BACK FACE) THROUGH #9 B7 (FILL FACE)	1'-2" 10" 10" 1'-2" Z#5 V1
#4 B8 (EA. FACE)	#4 S4
© HP 12 X 53— STEEL PILE	3" HIGH B.B. 1'-4" 2'-0" SECTION B-B

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



17230 Wael Orafat

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SHEET 3 OF 3

BILL OF MATERIAL

#10

#9

14 | #4 | STR |

1 | #4 | STR |

| 22 | #6 | 6

58 #4 4

35 | #4 | 3 |

| 12 | #4 | 8

| 144 | #5 | STR |

8 #5 STR

8 #5 STR

10 #5 STR

18

#6 6

2 | #6 | STR | 9'-3"

24 | #6 | 7 | 16'-2"

22

#9 2

#9 2

#9 2

#9 2

#9 2

| 24 | #4 | STR | 22'-2"

8 #4 STR 22'-2"

END BENT #1

44'-6"

35′-5″

18′-6″

18′-3″

18′-0″

17′-10″

17′-8″

3′-8″

7′-6″

7′-3″

16′-5″

16′-3″

7′-10″

16′-1″

4′-5″

11'-8"

12′-8″

6′-6″

6′-8″

7′-3″

7'-0"

7'-2"

7′-3″

#5 | STR | 6'-10"

766

602

63

62

61

61

60

355

118

31

34

5

542

537

28

24

580

583

64

171

273

195

156

53

1089

128

58

60

76

SUBSTRUCTURE INTEGRAL

4139C12A32AB406... 5/31/2016 OCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS S-20 DATE: DATE: BY: NO. BY: TOTAL SHEETS 26

DESIGN ENGINEER OF RECORD: _____S.T.CHAMPION____ DATE : ___12-15_

_ DATE : <u>3-3-15</u>

DATE : <u>11-15</u>

H. T. BARBOUR

V. X. NGUYEN

DRAWN BY : __

CHECKED BY :