## **NOTES:**

MECHANICAL COUPLERS SHALL BE USED TO JOIN THE #10 "B" OR #11 "B" BARS IN STAGE I WITH THE #10 "B" OR #11 "B" BARS, RESPECTIVELY, IN STAGE II. REINFORCÍNG DIMENSIONS ARE PROVIDED ASSUMING A 1FT EXTENSION BEYOND THE CONSTRUCTION JOINT. THE CONTRACTOR SHALL ADJUST FABRICATED DIMENSIONS AS NECESSARY TO ACCOMMODATE THE COUPLER USED. SEE MECHANICAL BUTT SPLICES FOR REINFORCING STEEL IN STANDARD SPECIFICATIONS.

STIRRUPS AND "U" BARS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHORS.

ALL STEEL IN THE DRILLED PIERS IS INCLUDED IN THE PAY ITEMS FOR "REINFORCING STEEL" AND "SPIRAL COLUMN REINFORCING STEEL".

FOR DRILLED PIERS AND PERMANENT STEEL CASING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

SEE PILE AND DRILLED PIER FOUNDATION TABLES FOR DRILLED PIER FOUNDATION DATA. THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS ARE BASED ON AN APPROXIMATE GROUND LINE ELEVATION. IF THE CONSTRUCTION JOINT IS ABOVE THE ACTUAL GROUND ELEVATION, THE CONTRACTOR SHALL PLACE THE CONSTRUCTION JOINT AT A MINIMUM OF ONE FOOT BELOW THE GROUND LINE.

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE LONGITUDINAL REINFORCEMENT FOR THE DRILLED PIERS IS DETAILED WITH 3 FEET OF EXTRA LENGTH.

## TEMPORARY OVERBUILD NOTES:

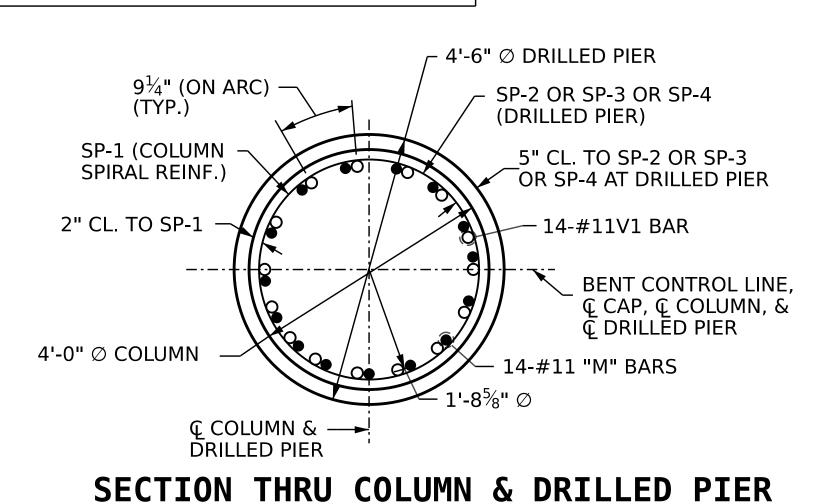
SEE BRIDGE 155 PLANS FOR COORDINATION. DURING THE CONSTRUCTION AND DEMOLITION OF BRIDGE 158 OVERBUILT PORTION OF BENT 1 OVER PROPOSED BRIDGE 155, THE CONTRACTOR SHALL ENSURE THAT NO DAMAGE SHALL OCCUR TO THE PROPOSED BENT 1 OF BRIDGE 155. THE TEMPORARY SUPPORT SHALL BE REMOVED PRIOR TO THE ERECTION OF GIRDERS. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIAL PROVISION "TEMPORARY OVERBUILD AND REMOVAL".

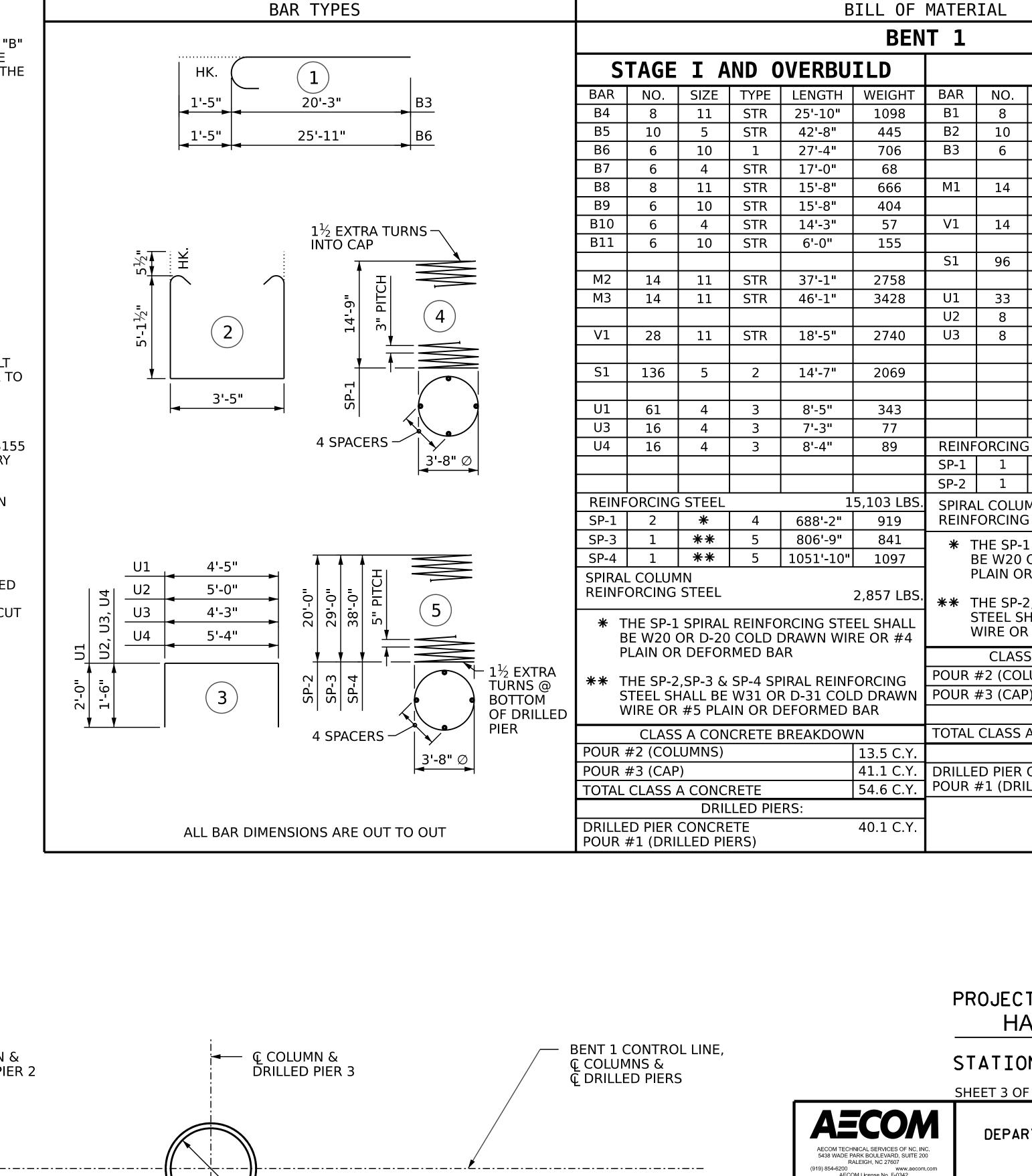
THE TEMPORARY SUPPORT SHALL BE CAPABLE OF TRANSFERRING A VERTICAL LOAD OF (509 KIPS STRENGTH) TO THE B155 SUBSTRUCTURE. TRANSFER OF MOMENT IS NOT REQUIRED. POSITIVE RESTRAINT SHALL BE PROVIDED. SEE "TEMPORARY OVERBUILD AND REMOVAL" SPECIAL PROVISION.

DURING STAGE I CONSTRUCTION, A 3/4" TRIANGULAR BLOCKOUT (SEE DETAIL "B" ON SHEET 1 OF 3) WILL BE PLACED IN THE SIDE AND BOTTOM FACES OF THE CAP AT THE SAW CUT LOCATION TO FACILITATE SAW-CUT AND SUCH THAT FINAL BENT FACES MAY BE CHAMFERED ACCORDING TO THE STANDARD NOTES.

THREADED MECHANICAL COUPLERS SHALL BE USED TO JOIN THE #10 "B" OR #11 "B" BARS ON EITHER SIDE OF THE SAW-CUT LINE BETWEEN THE PERMANENT AND OVERBUILT PORTIONS OF STAGE 1. REINFORCING DIMENSIONS ARE PROVIDED ASSUMING A 1'-3" EXTENSION BEYOND THE SAW-CUT LINE. THE CONTRACTOR SHALL ADJUST THE FABRICATED DIMENSIONS OF THE REINFORCING SUCH THAT THE COUPLER PROVIDES AT LEAST 3" CLEAR TO THE SAW-CUT LINE. DEBOND THE BAR BETWEEN THE COUPLER AND THE SAW-CUT LINE. #5 "B" BARS SHALL EXTEND THROUGH THE SAW-CUT LINE WITHOUT DEBONDING AND SHALL BE DRILLED OUT TO A DEPTH OF 2" DURING OVERBUILD REMOVAL. SEE "TEMPORARY OVERBUILD AND REMOVAL" SPECIAL PROVISION.

## QTY. "TEMPORARY OVERBUILD AND REMOVAL" = 1 L.S.





PROJECT NO. B-3186 / B-5898 HAYWOOD COUNTY 24+70.00 -L LT-STATION:

SHEET 3 OF 3

BILL OF MATERIAL

BENT 1

1098

445

706

68

666

404

57

155

2758

3428

2740

2069

343

77

89

15,103 LBS

919

841

1097

2,857 LBS.

13.5 C.Y.

54.6 C.Y.

40.1 C.Y.

25'-10"

42'-8"

27'-4"

17'-0"

15'-8"

15'-8"

14'-3"

6'-0"

37'-1"

46'-1"

18'-5"

14'-7"

8'-5"

7'-3"

8'-4"

688'-2"

806'-9"

1051'-10"

2

3

3

BAR

В1

B2

B3

Μ1

V1

S1

U1

U2

U3

SP-2

NO.

10

6

14

14

96

33

8

REINFORCING STEEL

REINFORCING STEEL

POUR #2 (COLUMNS)

41.1 C.Y. DRILLED PIER CONCRETE

TOTAL CLASS A CONCRETE

POUR #1 (DRILLED PIERS)

SPIRAL COLUMN

5

10

11

11

5

4

4

\*\*

PLAIN OR DEFORMED BAR

STAGE II

STR

STR

STR

STR

2

3

3

3

5

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL

\*\* THE SP-2,SP-3 & SP-4 SPIRAL REINFORCING

WIRE OR #5 PLAIN OR DEFORMED BAR

CLASS A CONCRETE BREAKDOWN

DRILLED PIERS:

BE W20 OR D-20 COLD DRAWN WIRE OR #4

STEEL SHALL BE W31 OR D-31 COLD DRAWN

SIZE TYPE LENGTH

20'-3"

21'-1"

21'-8"

28'-1"

18'-5"

14'-7"

8'-5"

8'-0"

7'-3"

688'-2"

561'-8"

WEIGHT

861

220

559

2089

1370

1460

186

43

39

6,827 LBS

460

586

1,046 LBS

6.7 C.Y.

21.2 C.Y.

27.9 C.Y

12.1 C.Y.

AECOM RALEIGH, NC 27607

10/13/2023

OCUMENT NOT CONSIDERED

FINAL UNLESS ALL SIGNATURES COMPLETED

DEPARTMENT OF TRANSPORTATION SUBSTRUCTURE

BENT 1

STATE OF NORTH CAROLINA

SHEET NO. REVISIONS S3-39 DATE: DATE: BY: TOTAL SHEETS

1'-0" € COLUMN & © COLUMN & DRILLED PIER 1 DRILLED PIER 2 4'-6" ∅ 4'-0" Ø -L LT-DRILLED PIER W.P. 2 — COLUMN (TYP.) (TYP.) 20'-9" 15'-9"

DATE : 06/2023 L. LEE DRAWN BY : \_ DATE : 06/2023 G. COLS CHECKED BY: DATE : 06/2023 D. TUTTLE DESIGN ENGINEER OF RECORD: .

PLAN OF DRILLED PIERS AND COLUMNS

c:\pwworking\usnc\dms13652\403\_077\_B-5898-B3186\_SMU\_B103\_S3-39\_430158.DGN caterm