



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

July 29, 2014

**Addendum No. 2**

Contract No.: DA00198

TIP No.: BD-5101N

WBS No.: 45347.3.FD15

*Replacement of Bridge #18 Over Charles Creek on SR 1269 (South Road Street).*

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

The following revision has been made to the proposal and plans:

“Proposal Cover” has been revised to show the new Bid Opening Date of August 6, 2014. Please void the existing “Proposal Cover” and staple the revised “Proposal Cover” thereto.

Page No. iv, “Instruction to Bidders” has been revised to show the new Bid Opening Date of August 6, 2014. Please void the existing “Instruction to Bidders” and staple the revised “Instruction to Bidders” thereto.

The attached Structure Plan Sheets have been revised to illustrate the changes in the retaining wall construction and show a section modulus of 30.2 in\*3/ft. Please void existing Structure Plan Sheets and staple the revised Structure Plan Sheets thereto.

Sincerely  
DocuSigned by:

A handwritten signature in black ink that reads "W. B. Hobbs".

99A5A272ED6A447...  
W. B. Hobbs, PE  
Division Project Manager

WBH  
Attachment

cc: S. D. Baker, PE  
C. S. Mebane, PE  
R. W. Midgett, PE  
J. S. Abel, Jr.

REVISED 7/29/14

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION 1

**PROPOSAL**

**DATE AND TIME OF BID OPENING: AUGUST 6, 2014 AT 2:00 PM**

**CONTRACT ID: DA00198**

**WBS ELEMENT NO.: 45347.3.FD15**

**FEDERAL AID NO.: BRSTP-1269(2)**

**COUNTY: PASQUOTANK**

**TIP NO.: BD-5101N**

**MILES: 0.069 MILES**

**ROUTE NO.: SR 1269**

**LOCATION: BRIDGE #18 OVER CHARLES CREEK ON SR 1269**

**TYPE OF WORK: BRIDGE REPLACEMENT**

**NOTICE:**

**ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.**

**THIS IS A DIVISION LET PROJECT.**

**BID BOND NOT REQUIRED.**

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**NAME OF BIDDER**

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**ADDRESS OF BIDDER**

**INSTRUCTIONS TO BIDDERS**

REVISED 7/29/14

**PLEASE READ ALL INSTRUCTIONS CAREFULLY  
BEFORE PREPARING AND SUBMITTING YOUR BID.**

All bids shall be prepared and submitted in accordance with the following requirements, except that bids may be prepared by electronic means as described elsewhere in the proposal. Failure to comply with any requirement shall cause the bid to be considered irregular and shall be grounds for rejection of the bid.

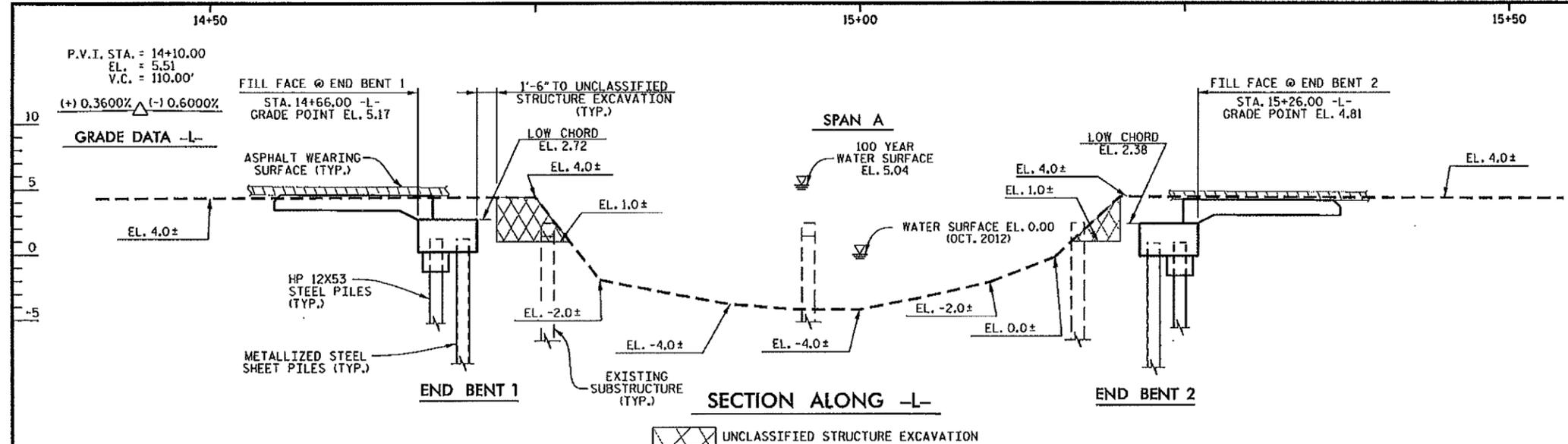
1. The bid sheet furnished by NCDOT with the proposal shall be used and shall not be altered in any manner. **DO NOT SEPARATE THE BID FORM FROM THE PROPOSAL! RETURN ENTIRE PROPOSAL.**
2. All entries on the bid sheet, including signatures, shall be written in ink.
3. The Bidder shall submit a unit price for every item on the bid form. The unit prices for the various contract items shall be written in figures. **\*\*\*Unit Prices shall be rounded off by the bidder to contain no more than FOUR decimal places.\*\*\***
4. An amount bid shall be entered on the bid sheet for every item. The amount bid for each item shall be determined by multiplying each unit bid by the quantity for that item, and shall be written in figures in the "Amount Bid" column of the sheet.
5. The total amount bid shall be written in figures in the proper place on the bid sheet. The total amount shall be determined by adding the amounts bid for each item.
6. Changes in any entry shall be made by marking through the entry in ink and making the correct entry adjacent thereto in ink. A representative of the Bidder shall initial the change in ink.
7. The bid shall be properly executed. All bids shall show the following information:
  - a. Name of individual, firm, corporation, partnership, or joint venture submitting bid.
  - b. Name and signature of individual or representative submitting bid and position or title.
  - c. Name, signature, and position or title of witness.
  - d. Federal Identification Number (or Social Security Number of Individual)
  - e. Contractor's License Number (if Applicable)
8. Bids submitted by corporations shall bear the seal of the corporation.
9. The bid shall not contain any unauthorized additions, deletions, or conditional bids.
10. The bidder shall not add any provision reserving the right to accept or reject an award, or to enter into a contract pursuant to an award.
11. **THE PROPOSAL WITH THE BID FORM STILL ATTACHED SHALL BE PLACED IN A SEALED ENVELOPE AND SHALL HAVE BEEN DELIVERED TO AND RECEIVED IN THE NCDOT DIV. ONE OFFICE, 113 AIRPORT DRIVE, SUITE 100, EDENTON, NC 27932 LOCATED APPROXIMATELY 5 MILES SOUTHEAST OF EDENTON, JUST OFF NC 94 ON AIRPORT DRIVE IN THE NORTHEASTERN REGIONAL AIRPORT BUILDING, BY 2:00 P.M. ON, WEDNESDAY, AUGUST 6, 2014.**
12. The sealed bid must display the following statement on the front of the sealed envelope:
 

**QUOTATION FOR DA00198 – REPLACEMENT OF BRIDGE #18 OVER CHARLES CREEK ON SR 1269 (SOUTH ROAD STREET), TO BE OPENED AT 2:00 P.M. ON WEDNESDAY, AUGUST 6, 2014**
13. If delivered by mail, the sealed envelope shall be placed in another sealed envelope and the outer envelope shall be addressed as follows:

**N. C. DEPARTMENT OF TRANSPORTATION  
Attn: Barry Hobbs, PE  
113 Airport Drive, Suite 100  
Edenton, NC 27932**

**AWARD OF CONTRACT**

The award of the contract, if it be awarded, will be made to the lowest responsible Bidder in accordance with Section 102, (excluding section 102-10) of the 2012 Standard Specifications for Roads and Structures. The lowest responsible Bidder will be notified that his bid has been accepted and that he has been awarded the contract. NCDOT reserves the right to reject all bids.



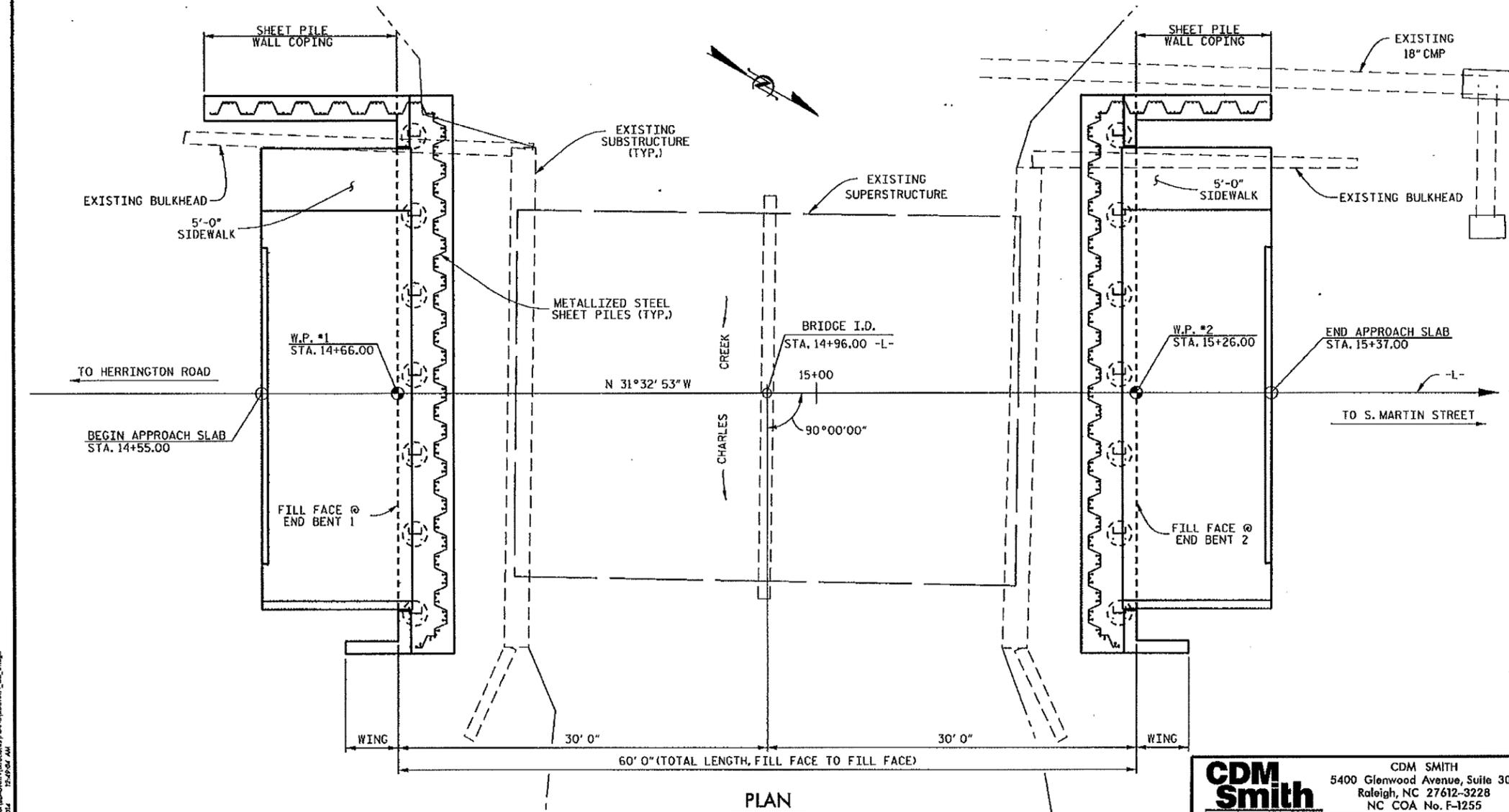
**HYDRAULIC DATA**

DESIGN DISCHARGE	= 710 CFS
FREQUENCY OF DESIGN FLOOD	= 10 YEARS
DESIGN HIGH WATER ELEVATION	= 3.5 FT.
DRAINAGE AREA	= 3.0 SQ. MI.
BASE DISCHARGE (Q100)	= 1,510 CFS
BASE HIGH WATER ELEVATION	= 5.04 FT.

**OVERTOPPING FLOOD DATA**

OVERTOPPING DISCHARGE	= 1,275 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 50 YEARS
OVERTOPPING FLOOD ELEVATION	= 4.6 FT.

OVERTOPPING AT PROPOSED SAG AT STA. 15+74 -L-. PROPOSED DESIGN MAINTAINS EXISTING HYDRAULIC LEVEL OF SERVICE.



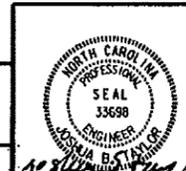
I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS.

PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
STATION: 14+96.00 -L-

SHEET 1 OF 2 REPLACES BRIDGE NO. 18

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALPH

GENERAL DRAWING  
BRIDGE OVER CHARLES CREEK ON  
NC 34 (-L-) BETWEEN  
HERRINGTON ROAD AND  
S. MARTIN STREET



**CDM Smith**  
5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612-3228  
NC COA No. F-1255

CDM SMITH  
5400 Glenwood Avenue, Suite 300  
Raleigh, NC 27612-3228  
NC COA No. F-1255

DRAWN BY: R. STATION / J. SLOAN DATE: 07-14  
CHECKED BY: J. B. TAYLOR DATE: 07-14  
DESIGN ENGINEER: J. B. TAYLOR DATE: 07-14

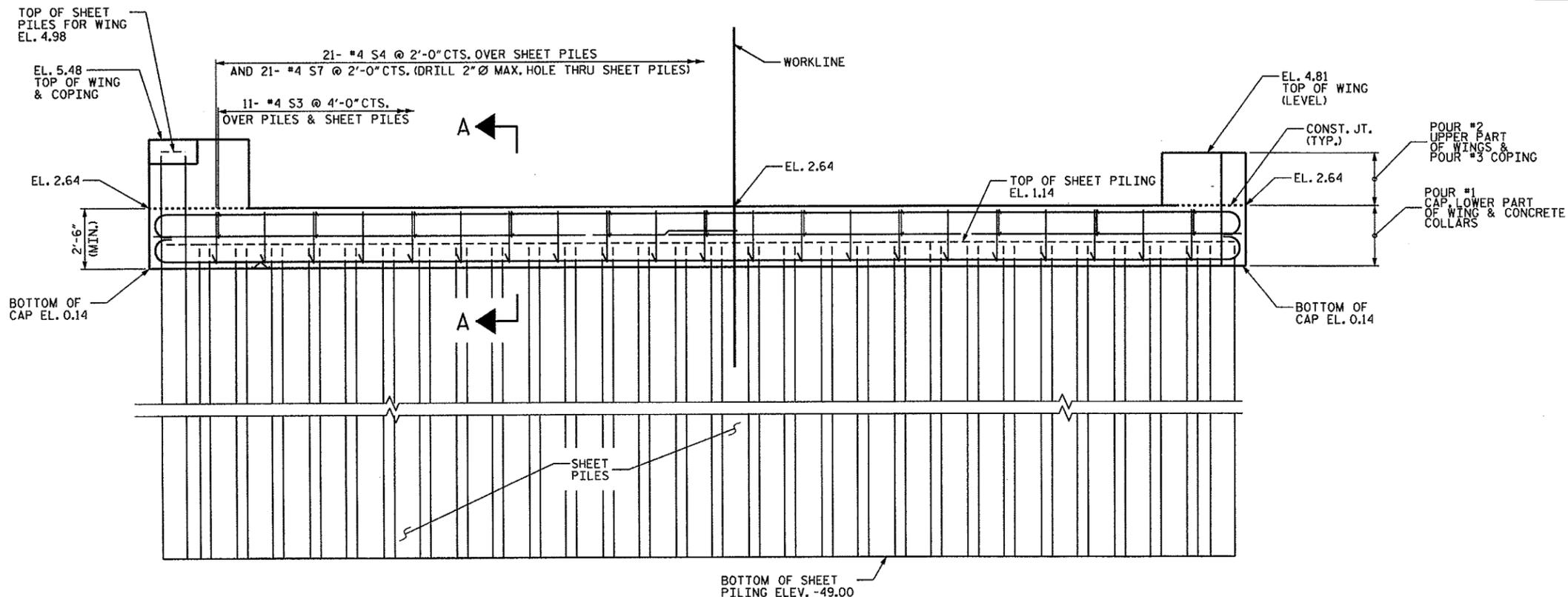
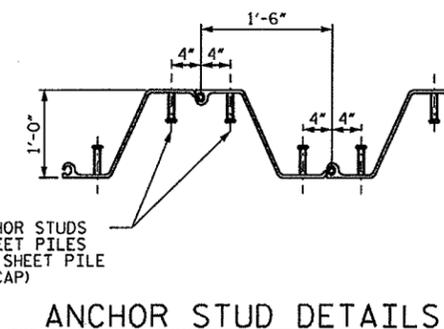
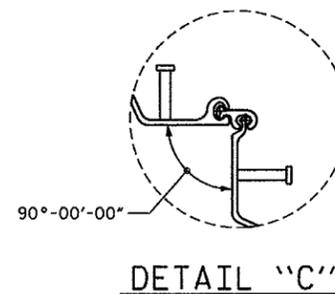
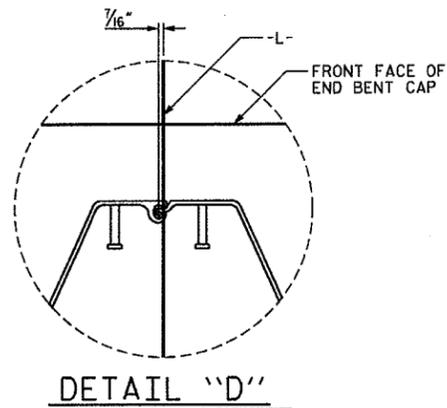
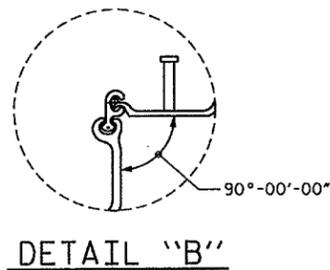
DWG. No.

REVISIONS						SHEET No.
No.	BY:	DATE:	No.	BY:	DATE:	S-1
1			3			TOTAL SHEETS
2			4			

FILE: R:\InRoads\BRIDGE\BRIDGE\PLANS\BRIDGE\BRIDGE.dwg DATE: 7/29/14 12:49:04 AM







**ELEVATION**  
HP PILES NOT SHOWN FOR CLARITY.

PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
STATION: 14+96.00 -L-

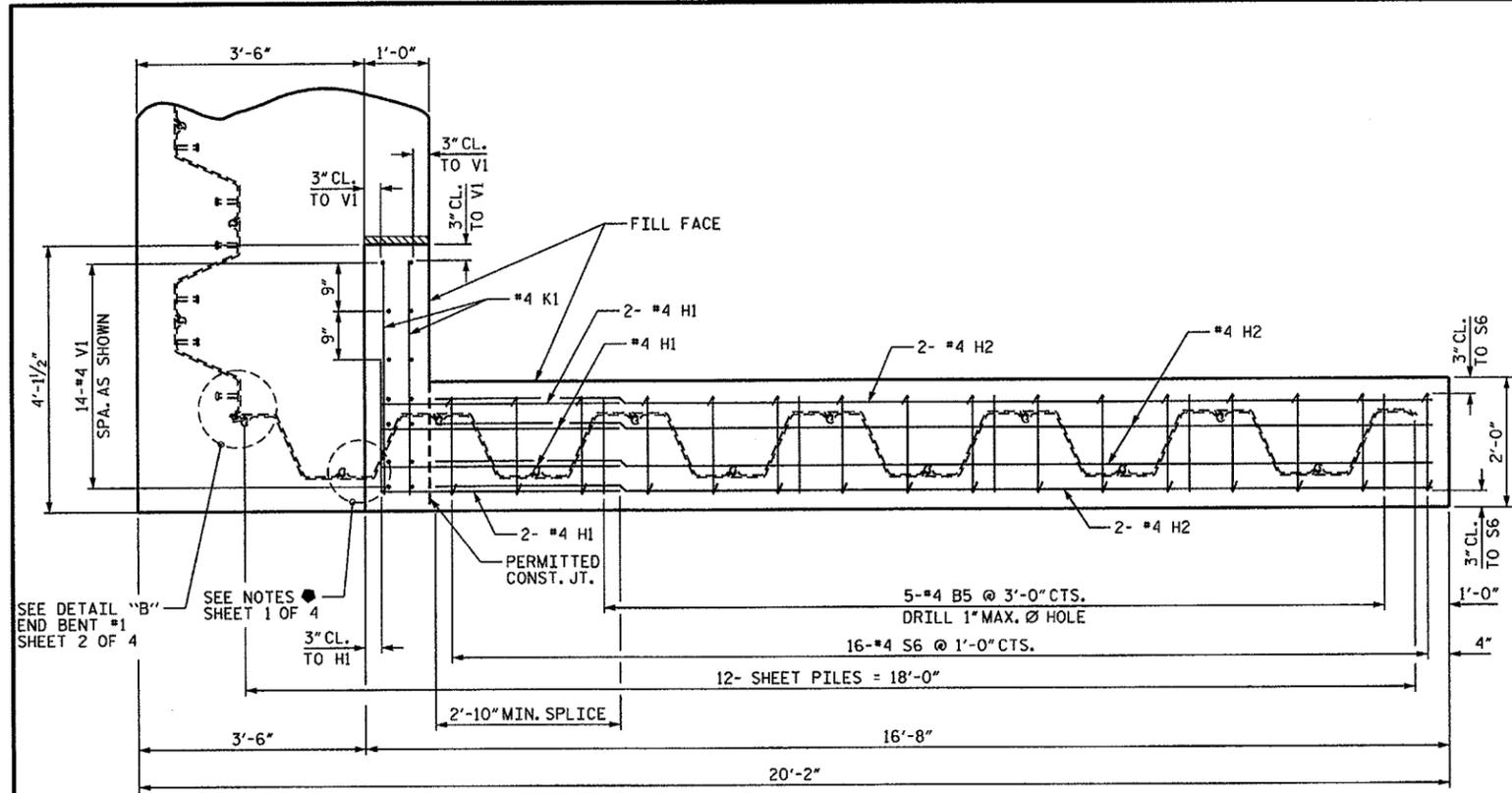
SHEET 2 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
END BENT #1

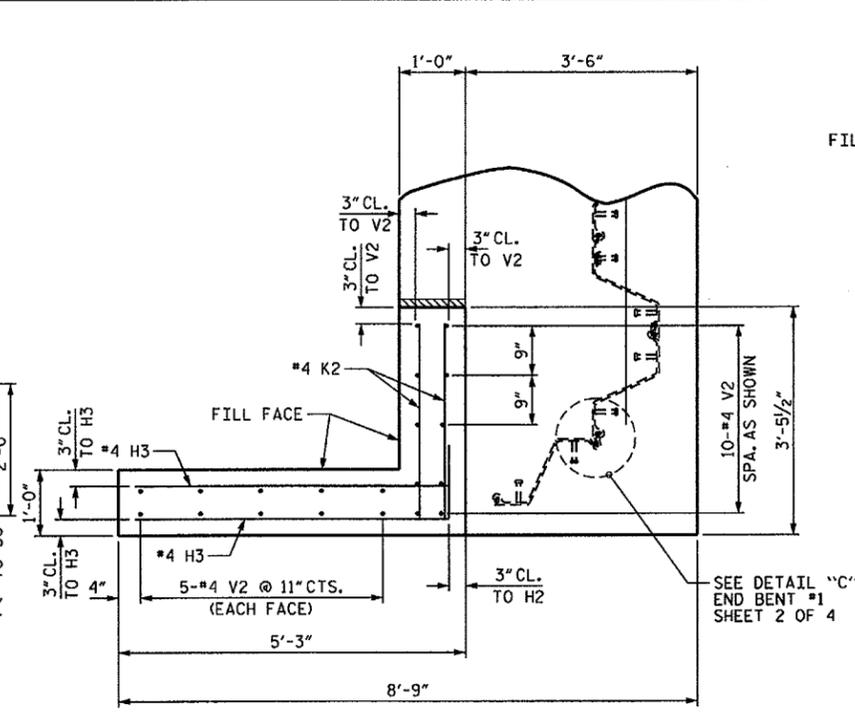


DRAWN BY: N. Ruffin DATE: 7/18/14  
CHECKED BY: T.L. COGGINS DATE: 7/18/14  
DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14

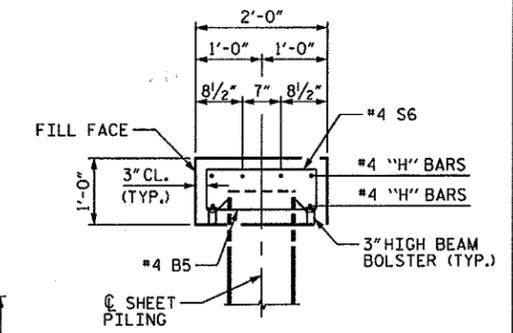
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-16
1			3			TOTAL SHEETS
2			4			



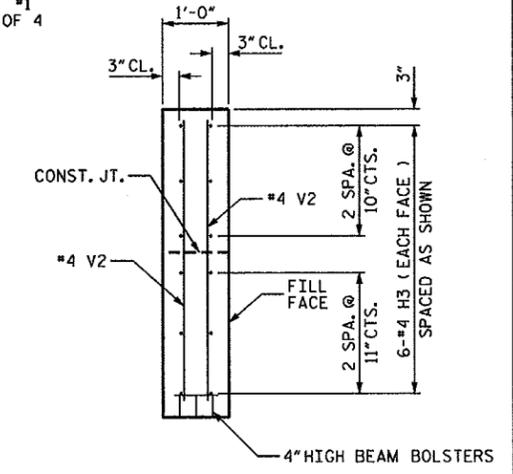
PLAN OF COPING C1



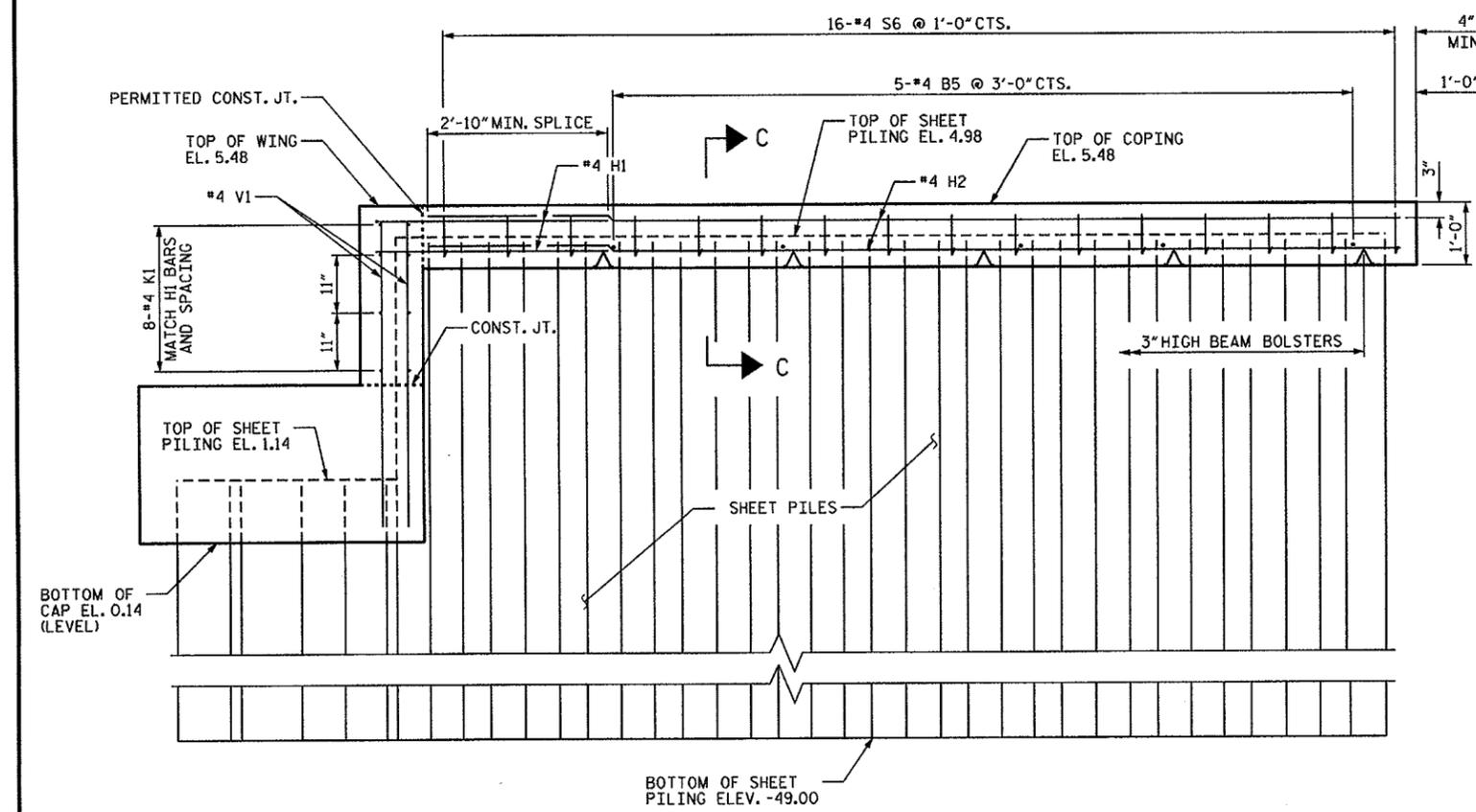
PLAN OF WING W2



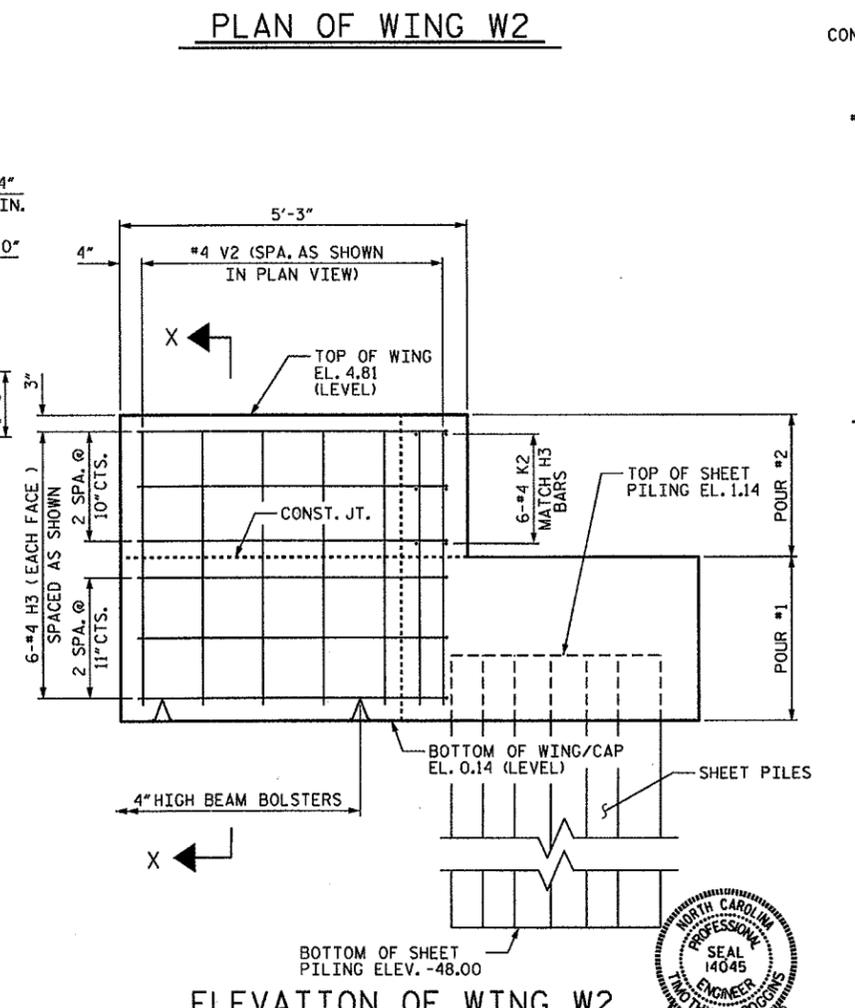
SECTION C-C



SECTION X-X



ELEVATION OF COPING C1



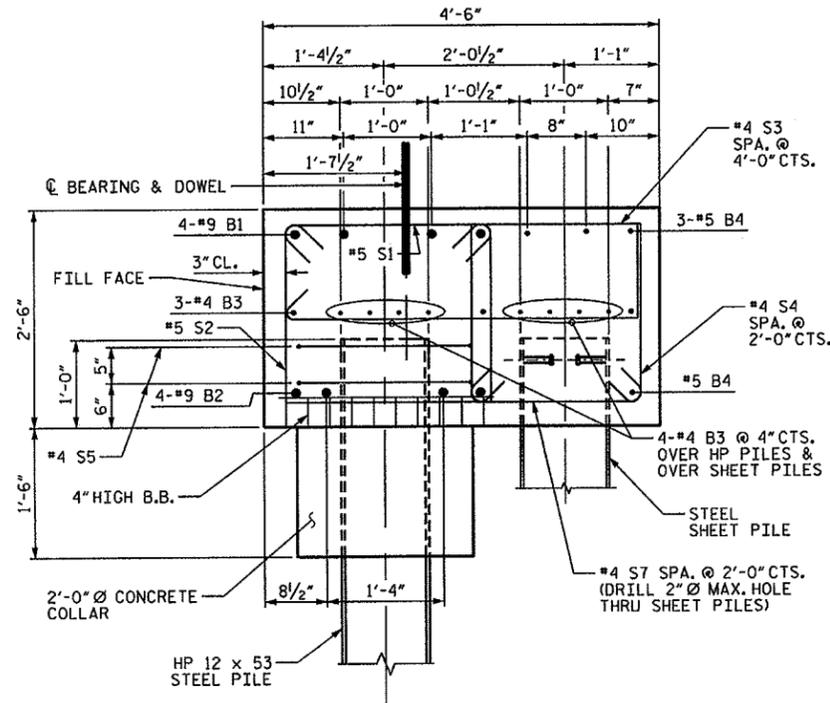
ELEVATION OF WING W2



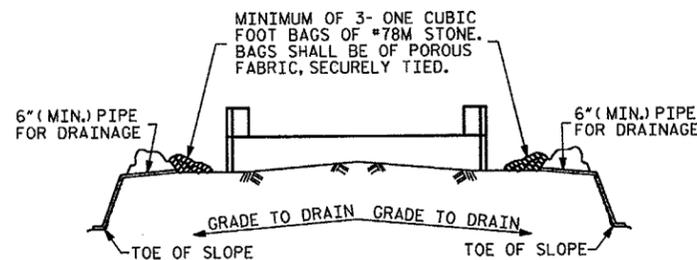
PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
 STATION: 14+96.00 -L-  
 SHEET 3 OF 4

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-17
1			3			TOTAL SHEETS
2			4			

DRAWN BY: N. Ruffin DATE: 7/18/14  
 CHECKED BY: T.L. COGGINS DATE: 7/18/14  
 DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14



SECTION A-A THRU CAP



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.

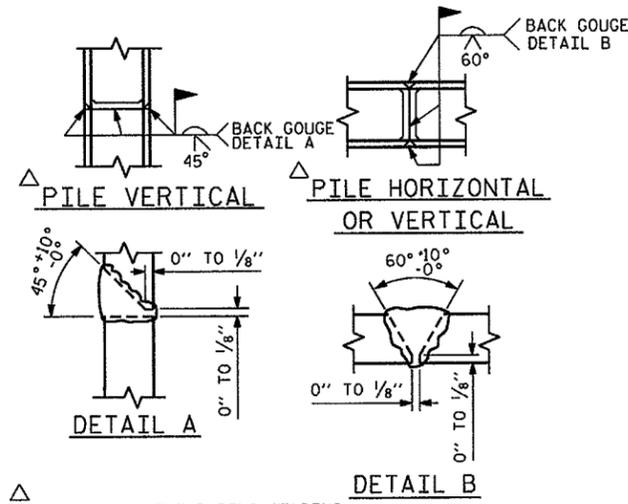
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETEIORATED AND LOST THEIR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

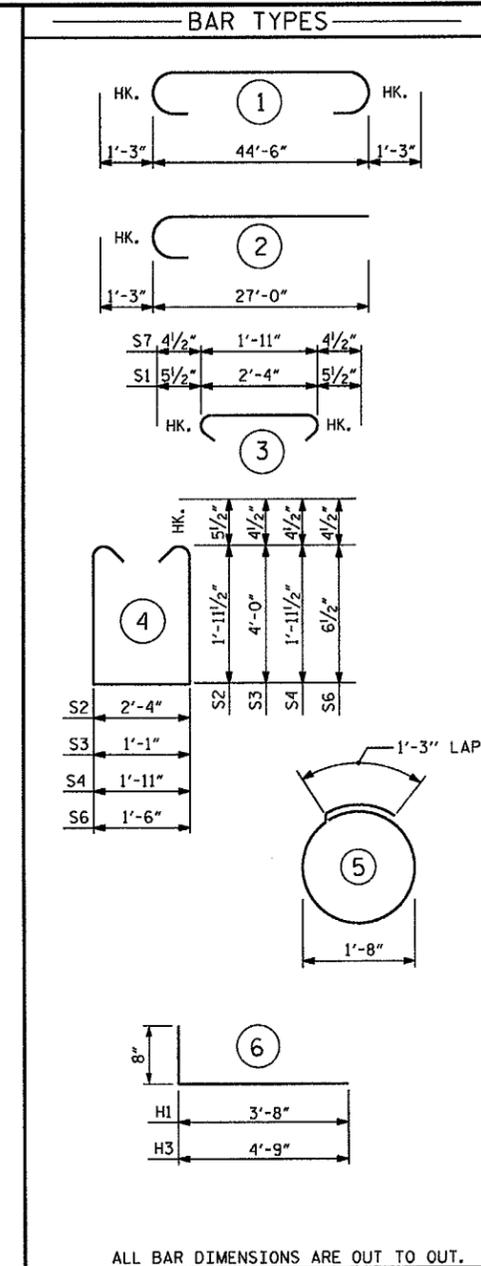
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 CHECKED BY: T. L. COGGINS DATE: 7/18/14  
 DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14

22-JUL-2014 09:36  
 S:\OPG\Tlm\Division 1 LIBR\BD-5101N\ruffin\BD5101N.sm.Desgn.01.dgn  
 nruffin



△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



BILL OF MATERIAL  
END BENT #1

BAR	NO	SIZE	TYPE	LENGTH	WEIGHT
*B1	4	9	1	47'-0"	639
*B2	8	9	2	28'-3"	768
*B3	22	4	STR	23'-8"	348
*B4	4	5	STR	44'-6"	186
*B5	4	4	STR	1'-6"	4
*D1	26	6	STR	1'-6"	59
*H1	6	4	6	4'-4"	17
*H2	6	4	STR	15'-4"	61
*H3	12	4	6	5'-5"	43
*K1	8	4	STR	3'-8"	20
*K2	6	4	STR	2'-11"	12
*S1	40	5	3	3'-3"	136
*S2	40	5	4	7'-2"	299
*S3	11	4	4	9'-10"	72
*S4	21	4	4	6'-7"	92
*S5	14	4	5	6'-6"	61
*S6	16	4	4	3'-4"	36
*S7	21	4	3	2'-8"	37
*V1	14	4	STR	4'-10"	45
*V2	20	4	STR	4'-2"	56

\* EXOPY COATED REINFORCING STEEL LBS. 2,991

CLASS "AA" CONCRETE BREAKDOWN  
 POUR #1 CAP & LOWER PART OF WINGS & COLLARS 20.3 C.Y.  
 POUR #2 UPPER PART OF WINGS 1.1 C.Y.  
 POUR #3 COPING 1.2 C.Y.  
 TOTAL 22.6 C.Y.

HP 12 x 53 STEEL PILES  
 No. = 7 LIN. FEET. 665

PILE REDRIVES EA. 1

STEEL SHEET PILES  
 NO. 90° = 2  
 NO. PILES = 41  
 TOTAL NO. = 43 SO. FT. 3147

PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
 STATION: 14+96.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT #1



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

NC005

--- NOTES ---

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR DOWELS.

FOR PILE SPlice DETAILS, SEE END BENT #2 SHEET 4 OF 4.

INSTALL THE 4" DIA. DRAIN PIPE THROUGH THE WING WALL AND SHEET PILING AS REQUIRED FOR REINFORCED BRIDGE APPROACH FILLS, SEE THE ROADWAY PLANS. REINFORCING STEEL IN THE WING WALL MAY BE SHIFTED AS NECESSARY TO CLEAR THE DRAIN PIPE.

FOR ANCHOR STUD DETAILS AND LOCATION, SEE END BENT #2 SHEET 2 OF 4.

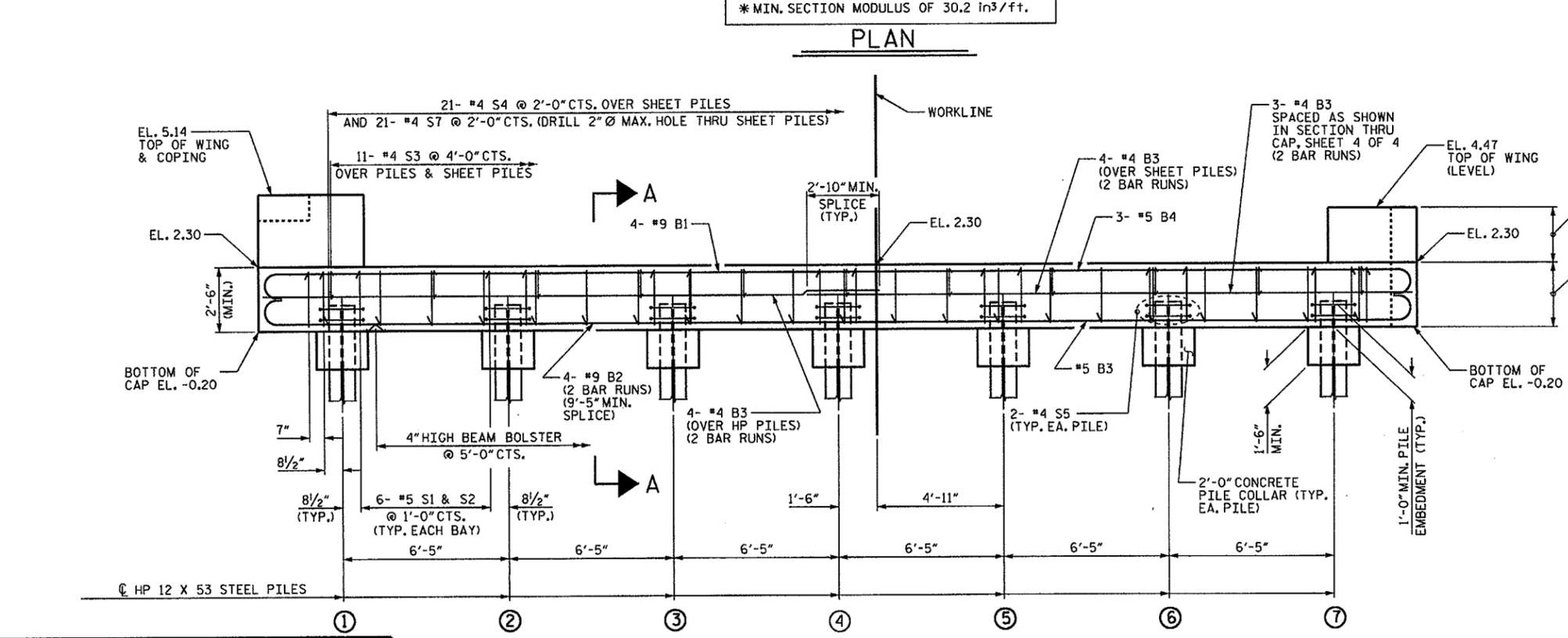
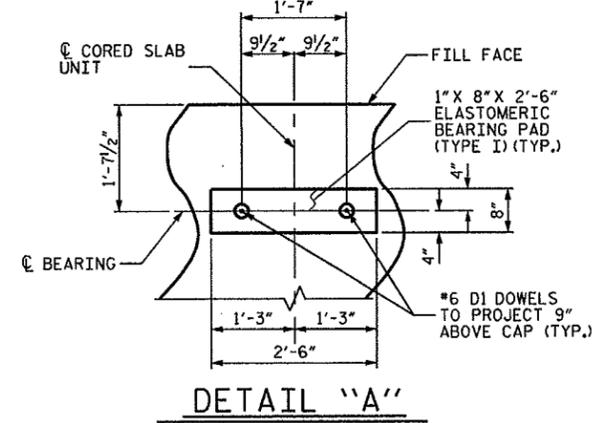
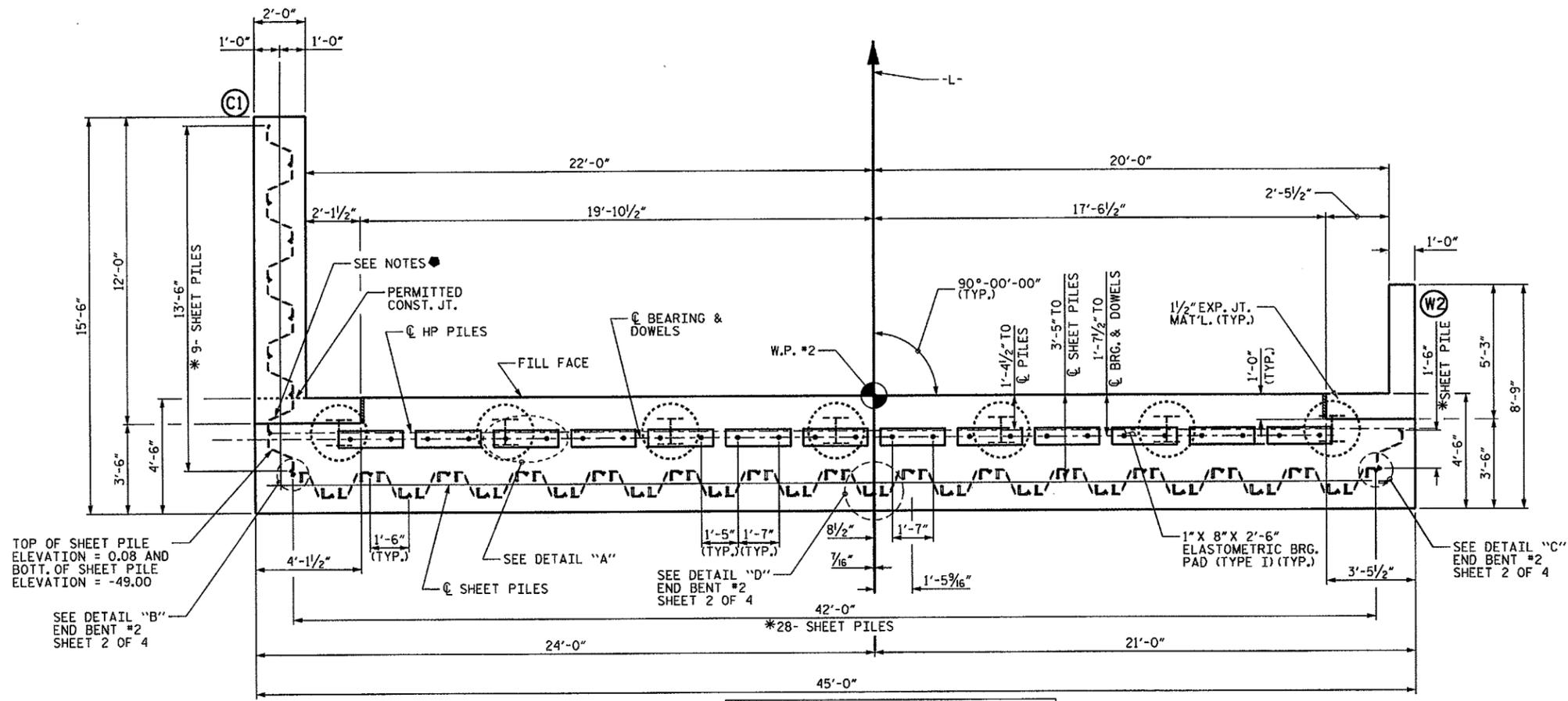
FOR STEEL SHEET PILES, SEE SPECIAL PROVISIONS.

FOR ELEVATION VIEW OF SHEET PILING, SEE END BENT #2 SHEET 2 OF 4.

THE CONCRETE IN THE END BENT CAP OF END BENT NO. 2 SHALL CONTAIN SILICA FUME. SILICA FUME SHALL BE SUBSTITUTED FOR 5% OF THE PORTLAND CEMENT BY WEIGHT. IF THE OPTION OF ARTICLE 1024-1 OF THE STANDARD SPECIFICATIONS TO PARTIALLY SUBSTITUTE CLASS F FLY ASH FOR PORTLAND CEMENT IS EXERCISED, THEN THE RATE OF FLY ASH SUBSTITUTION SHALL BE REDUCED TO 1.0 LB OF FLY ASH PER 1.0 LB. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS.

STEEL SHEET PILES SHALL BE METALLIZED. FOR THERMAL SPRAYED COATINGS (METALLIZATION), SEE SPECIAL PROVISIONS.

FOR THE SECOND SHEET PILE:  
TOP OF SHEET PILE ELEVATION = 4.64  
BOTTOM OF SHEET PILE ELEVATION = -49.00  
TRIM BACK TO 6" FROM THE FILL FACE AND DOWN TO THE PREVIOUS SHEET PILE ELEVATION OF 0.08



POUR #2 UPPER PART OF WINGS & POUR #3 COPING  
POUR #1 CAP, LOWER PART OF WING & CONCRETE COLLARS

PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
STATION: 14+96.00 -L-

SHEET 1 OF 4

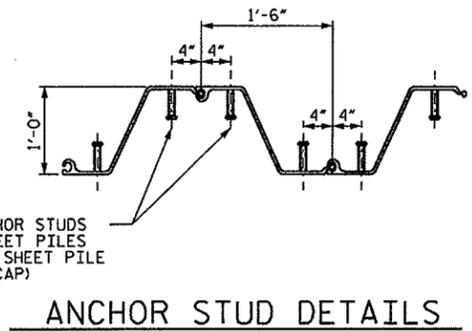
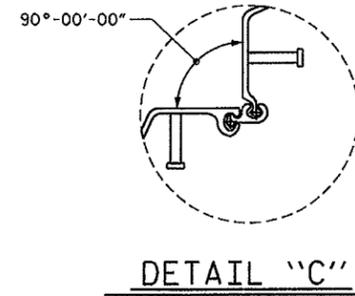
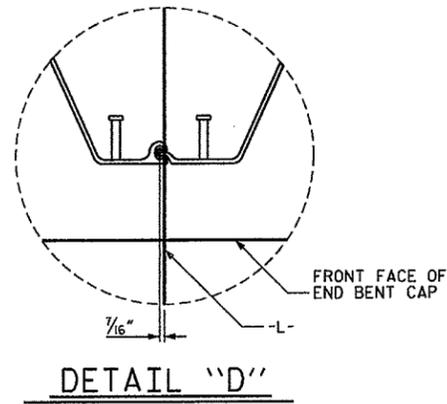
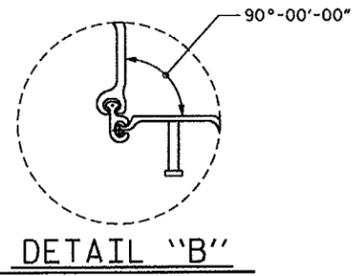
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
END BENT #2



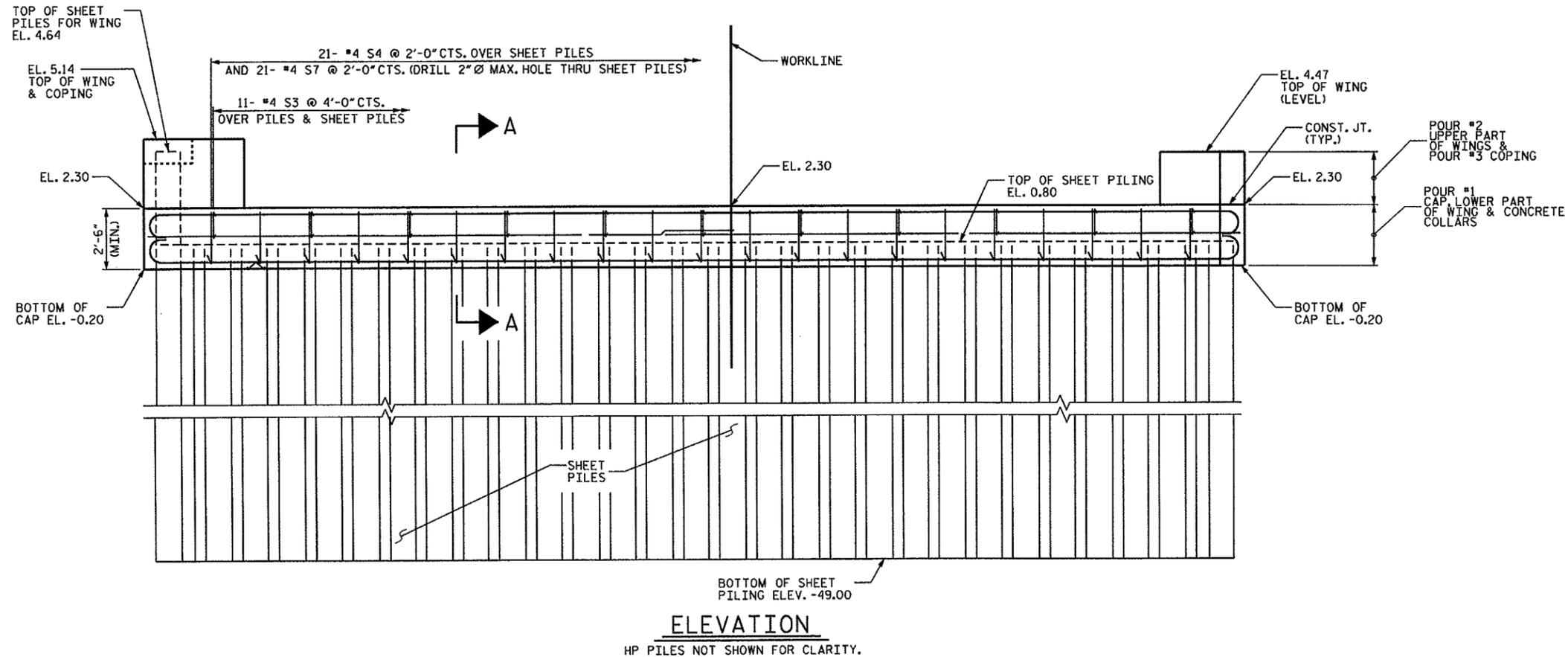
DRAWN BY: N. Ruffin DATE: 7/18/14  
CHECKED BY: T. L. COGGINS DATE: 7/18/14  
DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14

SHEET PILING NOT SHOWN FOR CLARITY.

REVISIONS						SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE	S-19	
1			3			TOTAL SHEETS	
2			4				



3/4" Ø x 5" ANCHOR STUDS  
WELDED TO SHEET PILES  
(2 STUDS PER SHEET PILE  
ONLY IN THE CAP)



PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
STATION: 14+96.00 -L-

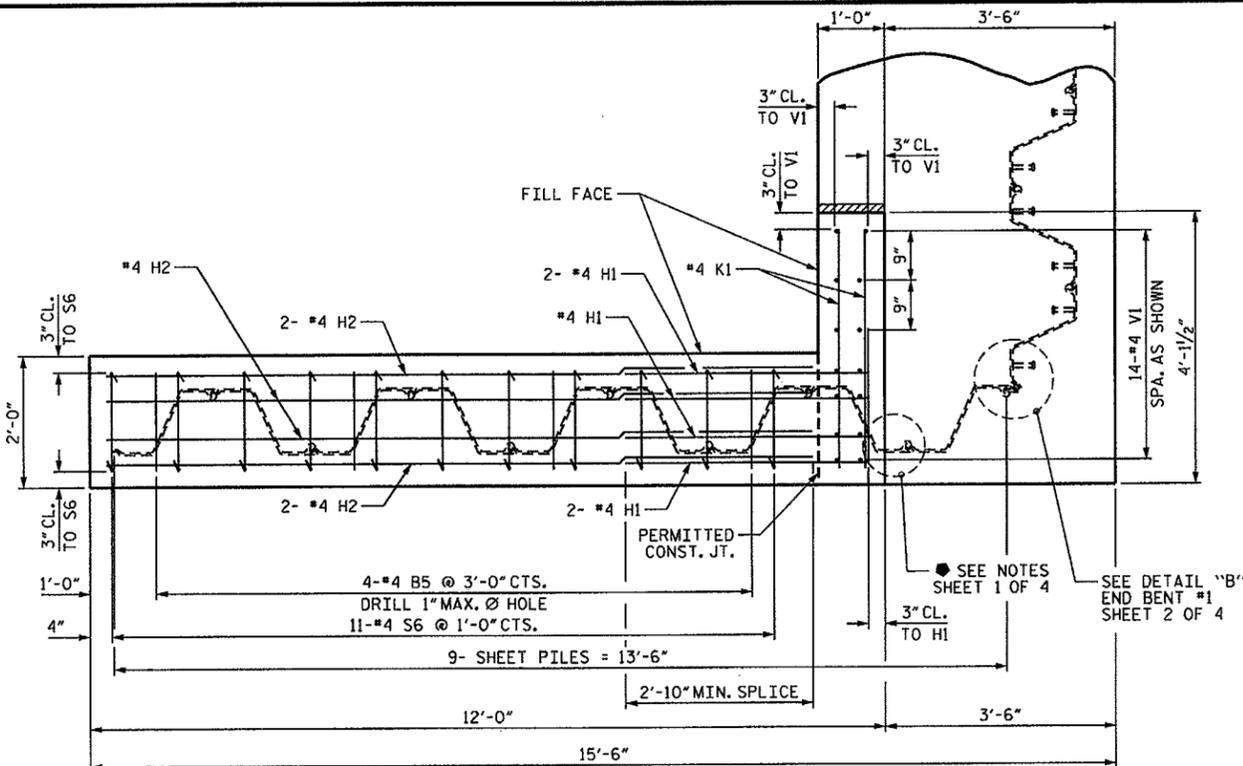
SHEET 2 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
END BENT #2

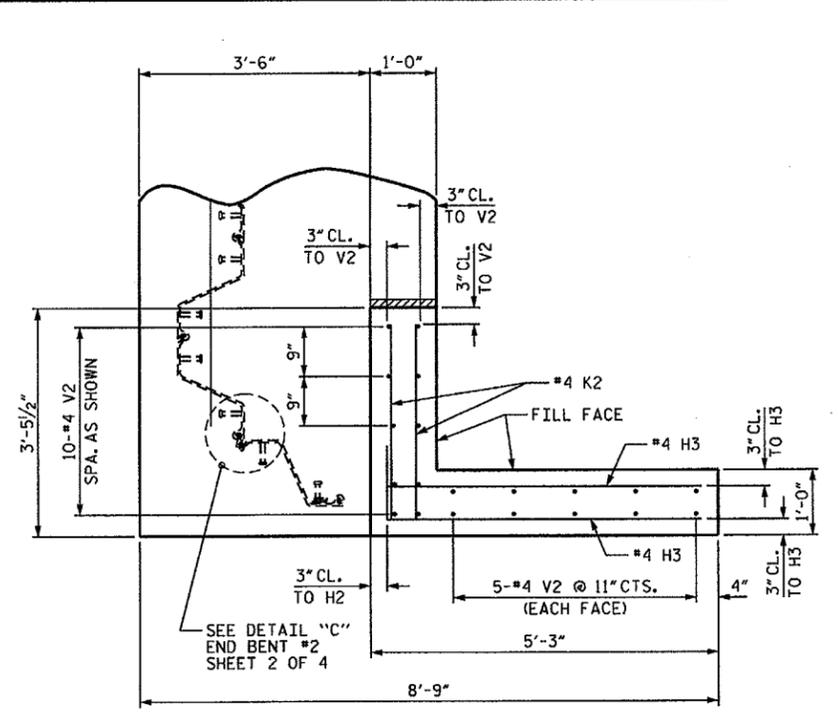


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DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14

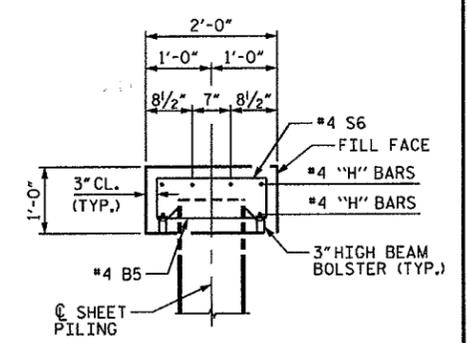
REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	S-20
1			3			TOTAL SHEETS
2			4			



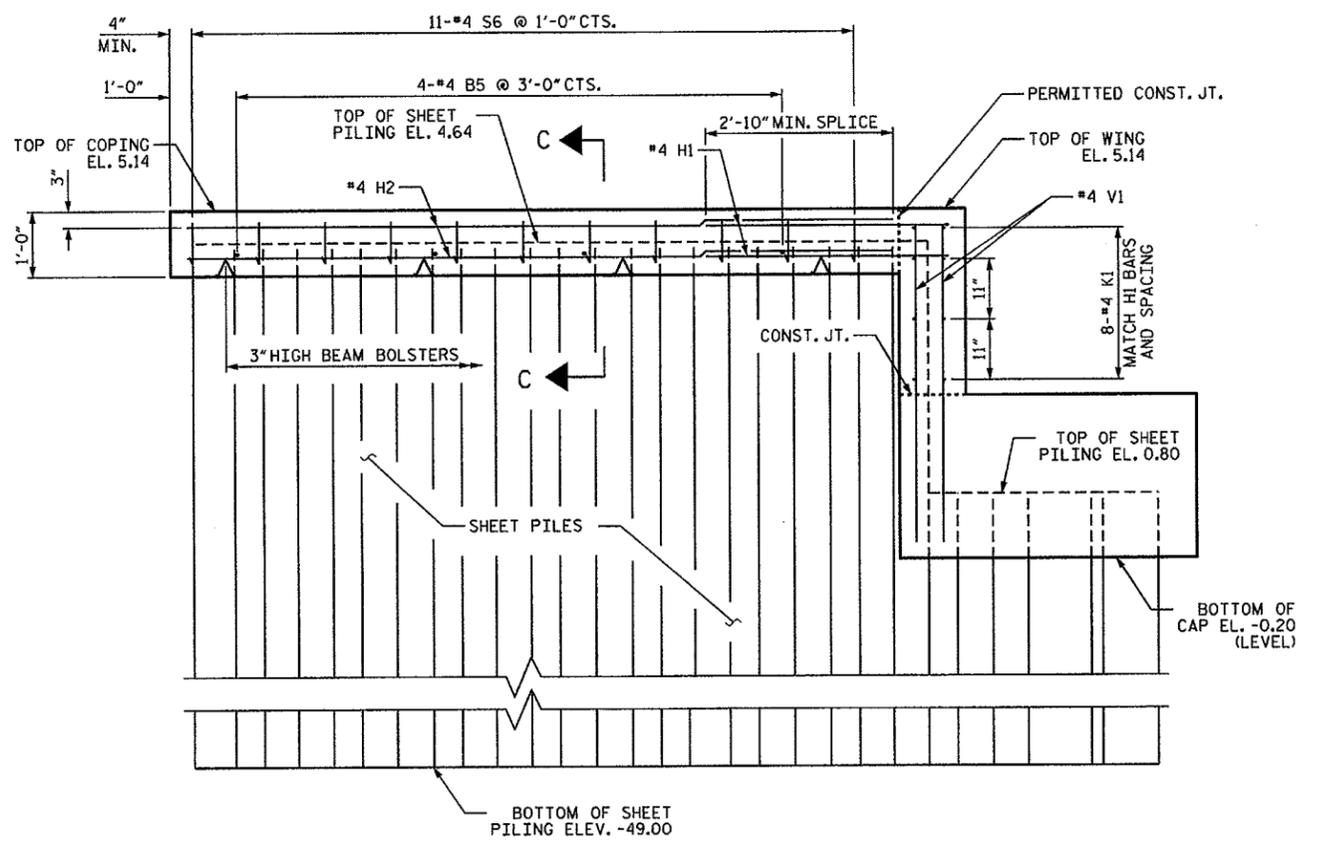
PLAN OF COPING C1



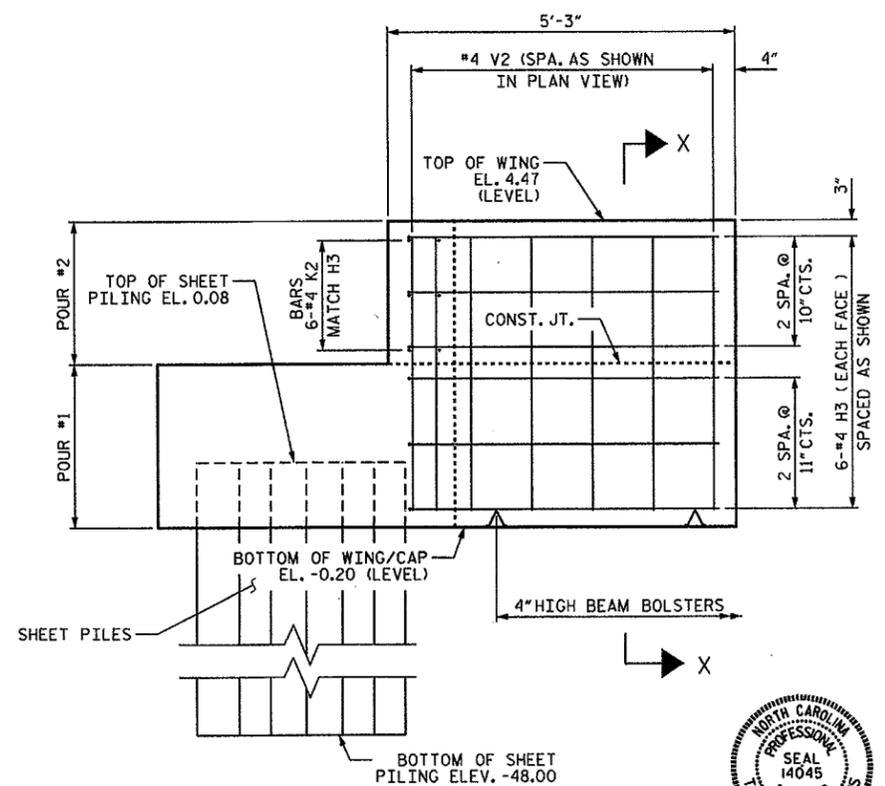
PLAN OF WING W2



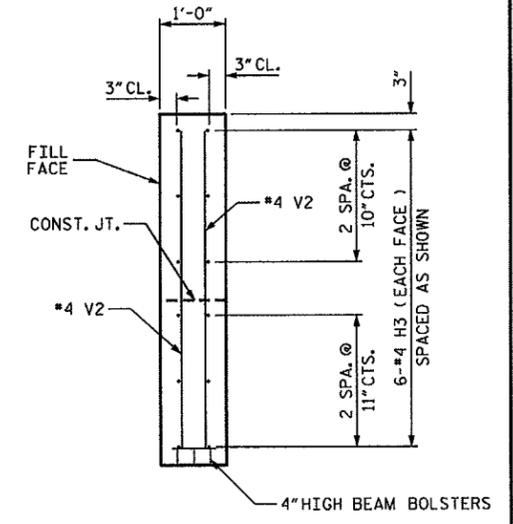
SECTION C-C



ELEVATION OF COPING C1



ELEVATION OF WING W2



SECTION X-X

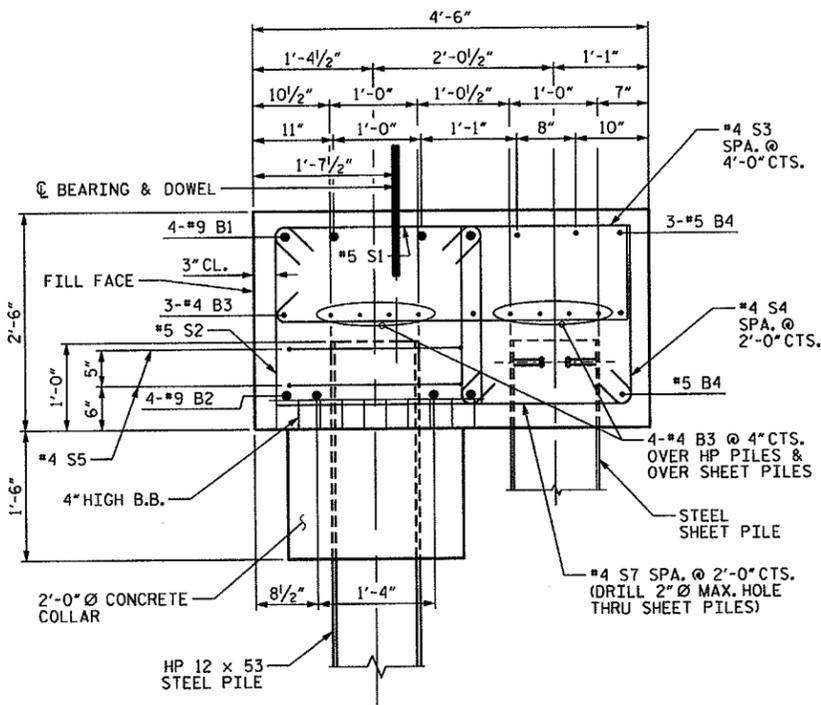
PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
 STATION: 14+96.00 -L-  
 SHEET 3 OF 4

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT #2

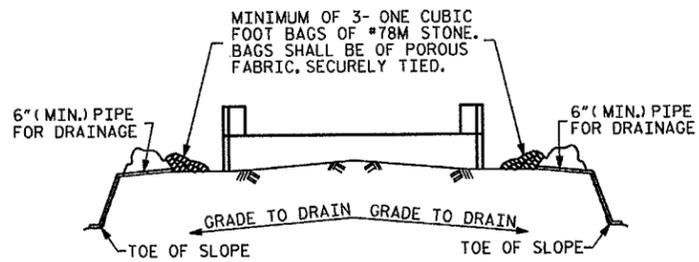


REVISIONS						SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE	S-21	
1			3			TOTAL SHEETS	
2			4				

DRAWN BY: N. Ruffin DATE: 7/18/14  
 CHECKED BY: T. L. COGGINS DATE: 7/18/14  
 DESIGN ENGINEER OF RECORD: N. RUFFIN DATE: 7/21/14



SECTION A-A THRU CAP

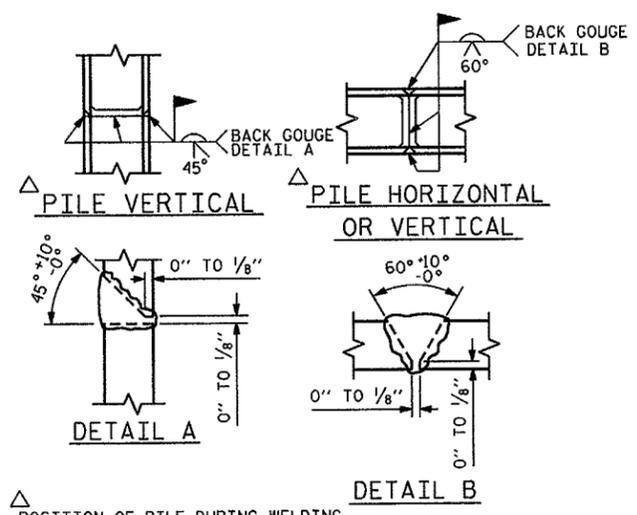


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

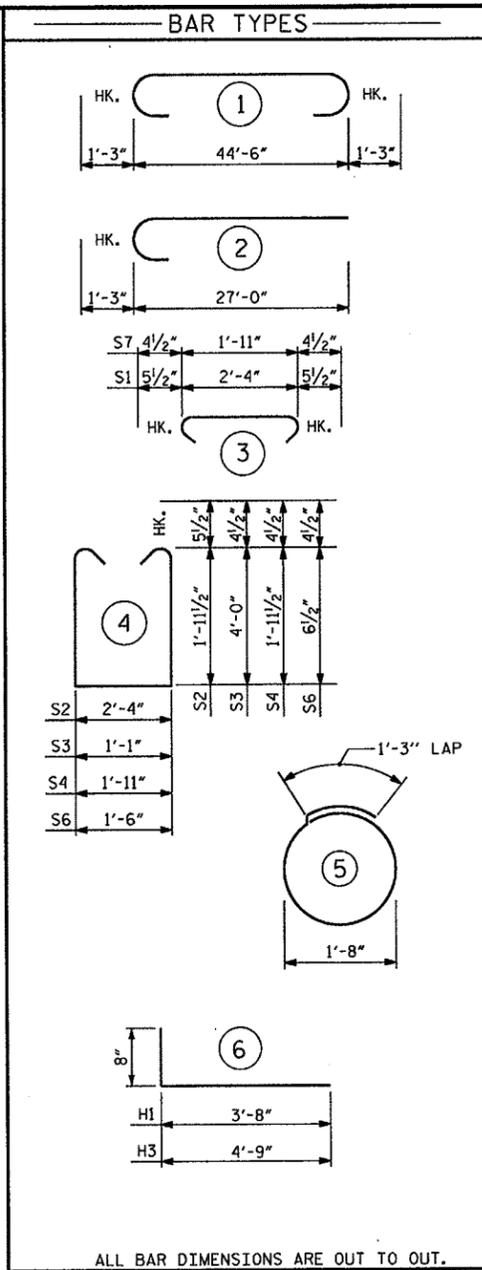
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL END BENT #2					
BAR	NO	SIZE	TYPE	LENGTH	WEIGHT
*B1	4	9	1	47'-0"	639
*B2	8	9	2	28'-3"	768
*B3	22	4	STR	23'-8"	348
*B4	4	5	STR	44'-6"	186
*B5	4	4	STR	1'-6"	4
*D1	26	6	STR	1'-6"	59
*H1	6	4	6	4'-4"	17
*H2	6	4	STR	10'-8"	43
*H3	12	4	6	5'-5"	43
*K1	8	4	STR	3'-8"	20
*K2	6	4	STR	2'-11"	12
*S1	40	5	3	3'-3"	136
*S2	40	5	4	7'-2"	299
*S3	11	4	4	9'-10"	72
*S4	21	4	4	6'-7"	92
*S5	14	4	5	6'-6"	61
*S6	11	4	4	3'-4"	24
*S7	21	4	3	2'-8"	37
*V1	14	4	STR	4'-10"	45
*V2	20	4	STR	4'-2"	56

\*EXOPY COATED  
REINFORCING STEEL LBS. 2,961

CLASS "AA" CONCRETE BREAKDOWN  
POUR #1 CAP & LOWER PART OF WINGS & COLLARS 20.3 C.Y.  
POUR #2 UPPER PART OF WINGS 1.1 C.Y.  
POUR #3 COPING 0.8 C.Y.  
TOTAL 22.2 C.Y.

HP 12 x 53 STEEL PILES  
No. = 7 LIN. FEET. 665

STEEL SHEET PILES  
NO. 90° = 2  
NO. PILES = 38  
TOTAL NO. = 40 SO. FT. 2885

PROJECT NO. BD-5101N  
PASQUOTANK COUNTY  
STATION: 14+96.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
END BENT #2



DRAWN BY: N. Ruffin DATE: 7/18/14  
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REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	DATE:	S-22
1			3		TOTAL SHEETS
2			4		