STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

November 30, 2012

U.S. Army Corps of Engineers
Regulatory Field Office
69 Darlington Avenue
Wilmington, North Carolina 28403

Attention: Mr. Ronnie Smith
NCDOT Coordinator

Dear Sir:

Subject: **Revised application for Section 404 Nationwide Permits (NWP) 23, 33 & 12, and Section 401 Water Quality Certification** for the replacement of Bridges No. 116 & 117 over Hog Swamp on SR 2262 (Bethesda Church Road) in Robeson; TIP Project B-4619; Federal Aid Project No. BRZ-2262 (1).

Please find enclosed revised PCN pages, permit drawings and utility drawings for the above referenced project and replace those from our original application dated October 17, 2012. The revised drawings reflect minimization measures resulting from coordination that has taken place since then. In particular, these drawings depict the use of a temporary work bridge instead of a temporary work pad for constructing Bridge No. 116 and shifting utility relocations to the north side of the project.

Proposed permanent impacts to riparian wetlands from bridge construction are 0.02 acre of fill, and 0.02 acre of excavation. The temporary work bridge needed to construct Bridge No. 116 will involve less than 0.01 acre of temporary fill in wetlands. Utility relocations will require less than 0.01 acre of fill in wetlands. Traffic will be detoured off-site during construction.

This project calls for a letting date of July 16, 2013 and a review date of May 28, 2013; however, the let date may advance as additional funding becomes available.

Regulatory Approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that the project be authorized by NWP 23 for bridge construction and NWP 33 for the temporary work pad. We are no longer requesting Section 404 approval of NWP 12.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
NATURAL ENVIRONMENT SECTION
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6100
FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610-4328

Section 401 Permit: We anticipate 401 General Certification numbers 3891, 3893 and 3884 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental and Natural Resources, Division of Water Quality. We are providing five copies of this revised application to the NCDWQ for their approval.

A copy of this revised permit application and its distribution list will be posted on the NCDOT website at http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html.

If you have any questions or need additional information, please contact Gordon Cashin at (919) 707-6107.

Sincerely,

E. L. Lusk

for Gregory J. Thorpe, Ph.D., Manager
Project Development and Environmental Analysis Unit

cc

NCDOT Permit Application Standard Distribution List.

C. Proposed Impacts Inventory

1. Impacts Summary

1a. Which sections were completed below for your project (check all that apply):

☒ Wetlands ☐ Streams - tributaries ☐ Buffers

☒ Open Waters ☐ Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
Site 1 ☒ P ☐ T	fill	riparian	☒ Yes ☐ No	☒ Corps ☐ DWQ	0.02
Site 1 ☒ P ☐ T	excavation	riparian	☒ Yes ☐ No	☒ Corps ☐ DWQ	0.01
Site 2 ☒ P ☐ T	fill	riparian	☒ Yes ☐ No	☒ Corps ☐ DWQ	<0.01
Site 2 ☒ P ☐ T	excavation	riparian	☒ Yes ☐ No	☒ Corps ☐ DWQ	0.01
Site 2 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
Site 6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
				2g. **Total wetland impacts**	0.04 Perm.

2h. Comments: There will be 0.11 ac of hand clearing due to bridge construction & 0.57 ac due to utility relocation. Due to rounding, site impacts do not match those on the impact summary sheet, however, total impacts are the same. Additionally, there will be 0.02 ac of temporary fill in wetlands in the hand clearing areas for the installation of erosion control measures, including temporary silt fence and/or special sediment control fence.

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 2 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 3 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 4 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 5 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
					3h. **Total stream and tributary impacts**	0.0 Perm 0.0 Temp

revised 11/30/12

3i. Comments:

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 ☒ P ☐ T	Gum Swamp	Permanent		<0.01
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				
			4f. Total open water impacts	<0.01 Permanent

4g. Comments: There will be <0.01 ac of permanent fill due to bents at both sites. Additionally there will be >0.01 ac of temporary fill at site 2 due to bents for the temporary workbridge.

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
	5f. Total							

5g. Comments:

5h. Is a dam high hazard permit required?	☐ Yes ☐ No If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

revised 11/30/12

D. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.

The proposed bridges are longer than the existing bridge; the proposed bridges will be at approximately the same grade as the existing structures; an off site detour will be used. Slopes of 2.4:1 or 3:1 will be constructed in wetlands. Utilities will be relocated on the north side of the project. A temporary workbridge will be used instead of a temporary workpad.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.

Sub regional tier design guidelines for bridge projects were used to develop this project. Best management practices include replacement of bridges along existing alignment, minimization of fill slopes and use of hand clearing as opposed to mechanized clearing.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes ☒ No If no, explain: Due to the minimal amount of impacts, compensatory mitigation is not proposed.
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps
2c. If yes, which mi tigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation

3. Complete if Using a Mitigation Bank

3a. Name of Mitigation Bank: not applicable

3b. Credits Purchased (attach receipt and letter)	Type	Quantity

3c. Comments:

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.	☐ Yes
4b. Stream mitigation requested:	linear feet
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cool ☐ cold
4d. Buffer mitigation requested (DWQ only):	square feet
4e. Riparian wetland mitigation requested:	acres
4f. Non-riparian wetland mitigation requested:	acres
4g. Coastal (tidal) wetland mitigation requested:	acres

4h. Comments:

5. Complete if Using a Permittee Responsible Mitigation Plan

5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.

revised 11/30/12

PROJECT REFERENCE NO.	SHEET NO.
B-4619	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/95

REVISIONS

11-16-12 RIGHT OF WAY REVISION: 390 FEET OF PERMANENT UTILITY EASEMENT HAS BEEN ADDED ON PARCEL NUMBER 1.
AND 225 FEET OF PERMANENT UTILITY EASEMENT HAS BEEN ADDED ON PARCEL NUMBER 2. RCB

5/14/99

15 20 25

BEGIN TIP PROJECT B-4619
-L- STA 13+50.00

END TIP PROJECT B-4619
-L- STA 25+25.00

BEGIN BRIDGE
-L- STA 20+18.00

BEGIN APPROACH SLAB
-L- STA 20+07.00

END BRIDGE
-L- STA 21+95.00

END APPROACH SLAB
-L- STA 22+06.00

BEGIN APPROACH SLAB
-L- STA 16+29.00

BEGIN BRIDGE
-L- STA 16+40.00

END APPROACH SLAB
-L- STA 17+71.00

END BRIDGE
-L- STA 17+60.00

(1) HOWARD W FAULK JR
DB 76 PG 424

(2) WILLIAM H MITCHELL
DB 198 PG 319

(3) DONNA PREVATTE
DB 458 PG 59

(4) LIONEL CHAMBERLAIN et ux
NILA CHAMBERLAIN
DB 1558 PG 126

+10.00
65'
EX.R/W

+25.00
50'
EX.R/W

+07
65'
PROP.R/W

+15
65'
EX.R/W

SR 2262 (BETHESDA CHURCH RD) 20' BST

S 81° 49' 52" E

N 02° 29' 40" E
146.38'

60' TAPER RT/LT

GRAU 350

CL B RIP RAP

PERMANENT FILL IN WETLAND

PERMANENT SURFACE WATER IMPACTS

HAND CLEARING

EXCAVATION IN WETLANDS

EXCAVATION LIMITS

TEMP. WORK BRIDGE FOOTPRINT

TOP OF WORK BRIDGE EL=77.8

MIN. DEPTH EL=79.6

CUT TIMBER

WOODS

SITE 1

SITE 2

DECK DRAINAGE:
INSTALL 4" DIA. DECK DRAINS ON 3' CENTERS
FROM -L- STA 16+44 TO 16+50 RT. & LT.
FROM -L- STA 17+50 TO 17+56 RT. & LT.
FROM -L- STA 20+22 TO 20+28 RT. & LT.
FROM -L- STA 21+85 TO 21+91 RT. & LT.

DENOTES EXCAVATION IN WETLAND
DENOTES FILL IN WETLAND
DENOTES IMPACTS IN SURFACE WATER
DENOTES HAND CLEARING

100' 0' 100' 200' 300'
GRAPHIC SCALE
SCALE 1"=100'

Permit Drawing
Sheet 2 of 13
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SYSTEM DESIGN

PROJECT REFERENCE NO.	SHEET NO.
B-4619	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

NAD 83/95

REVISIONS

11-16-12 RIGHT OF WAY REVISION: 390 FEET OF PERMANENT UTILITY EASEMENT HAS BEEN ADDED ON PARCEL NUMBER 1.
AND 225 FEET OF PERMANENT UTILITY EASEMENT HAS BEEN ADDED ON PARCEL NUMBER 2. RCB

5/14/99

15

20

25

BEGIN TIP PROJECT B-4619
-L- STA 13+50.00

END TIP PROJECT B-4619
-L- STA 25+25.00

BEGIN BRIDGE
-L- STA 20+18.00

BEGIN APPROACH SLAB
-L- STA 20+07.00

END BRIDGE
-L- STA 21+95.00

END APPROACH SLAB
-L- STA 22+06.00

1 HOWARD W FAULK JR
DB 76 PG 424

2 WILLIAM H MITCHELL
DB 198 PG 319

3 DONNA PREVATTE
DB 458 PG 59

4 LIONEL CHAMBERLAIN et ux
NILA CHAMBERLAIN
DB 1558 PG 126

+10.00
65' EX.R/W

+25.00
50' EX.R/W

+15
65' EX.R/W

SR 2262 (BETHESDA CHURCH RD) 20' BST

S 81° 49' 52" E

N 02° 29' 40" E
146.38'

BEGIN APPROACH SLAB
-L- STA 16+29.00

BEGIN BRIDGE
-L- STA 16+40.00

END APPROACH SLAB
-L- STA 17+71.00

END BRIDGE
-L- STA 17+60.00

SITE 1

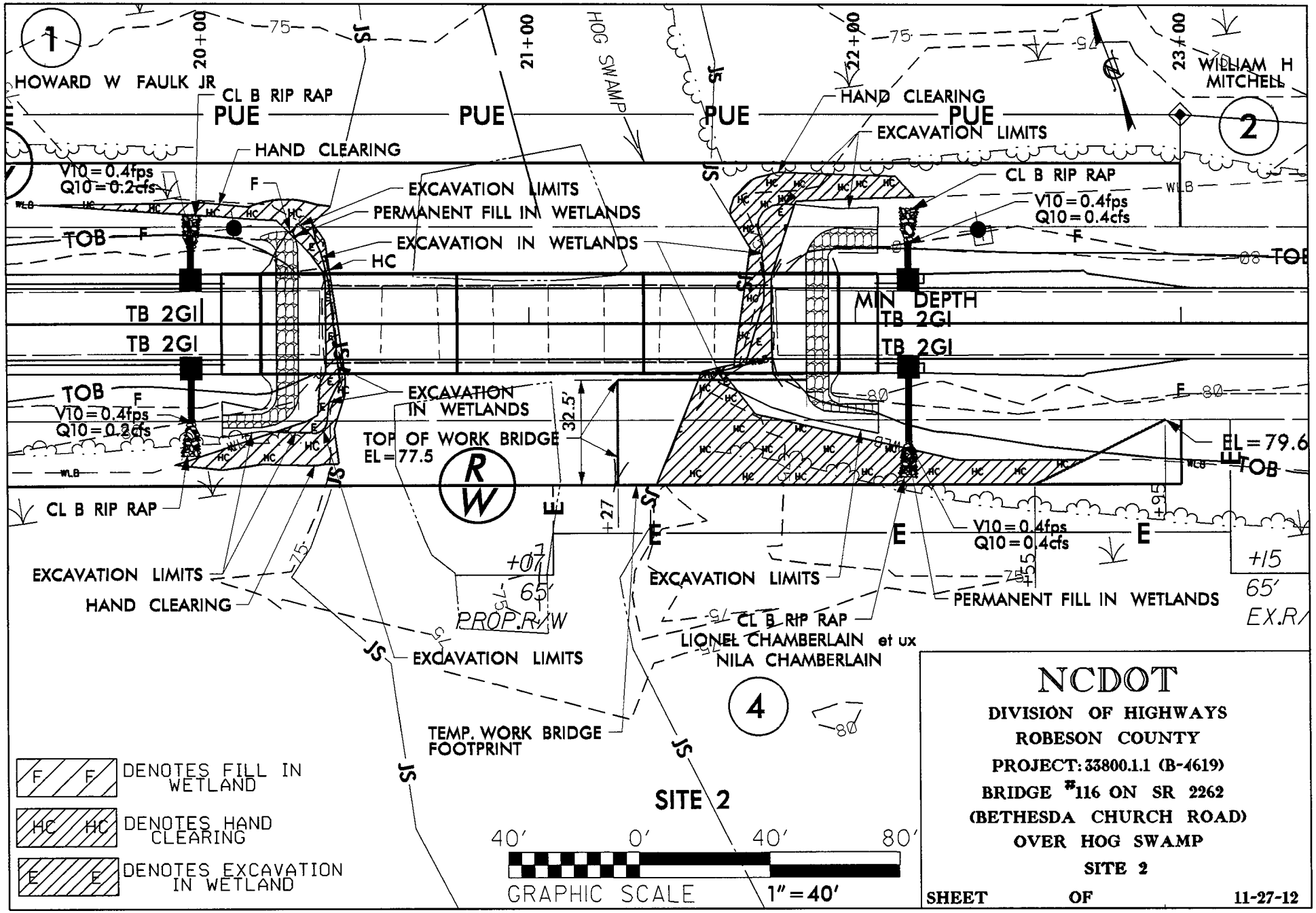
SITE 2

DECK DRAINAGE:
INSTALL 4" DIA. DECK DRAINS ON 3' CENTERS
FROM -L- STA 16+44 TO 16+50 RT. & LT.
FROM -L- STA 17+50 TO 17+56 RT. & LT.
FROM -L- STA 20+22 TO 20+28 RT. & LT.
FROM -L- STA 21+85 TO 21+91 RT. & LT.

Permit Drawing
Sheet 3 of 13
Revised 11-27-12

DENOTES EXCAVATION IN WETLAND
DENOTES FILL IN WETLAND
DENOTES IMPACTS IN SURFACE WATER
DENOTES HAND CLEARING

100' 0' 100' 200' 300'
GRAPHIC SCALE
SCALE 1"=100'

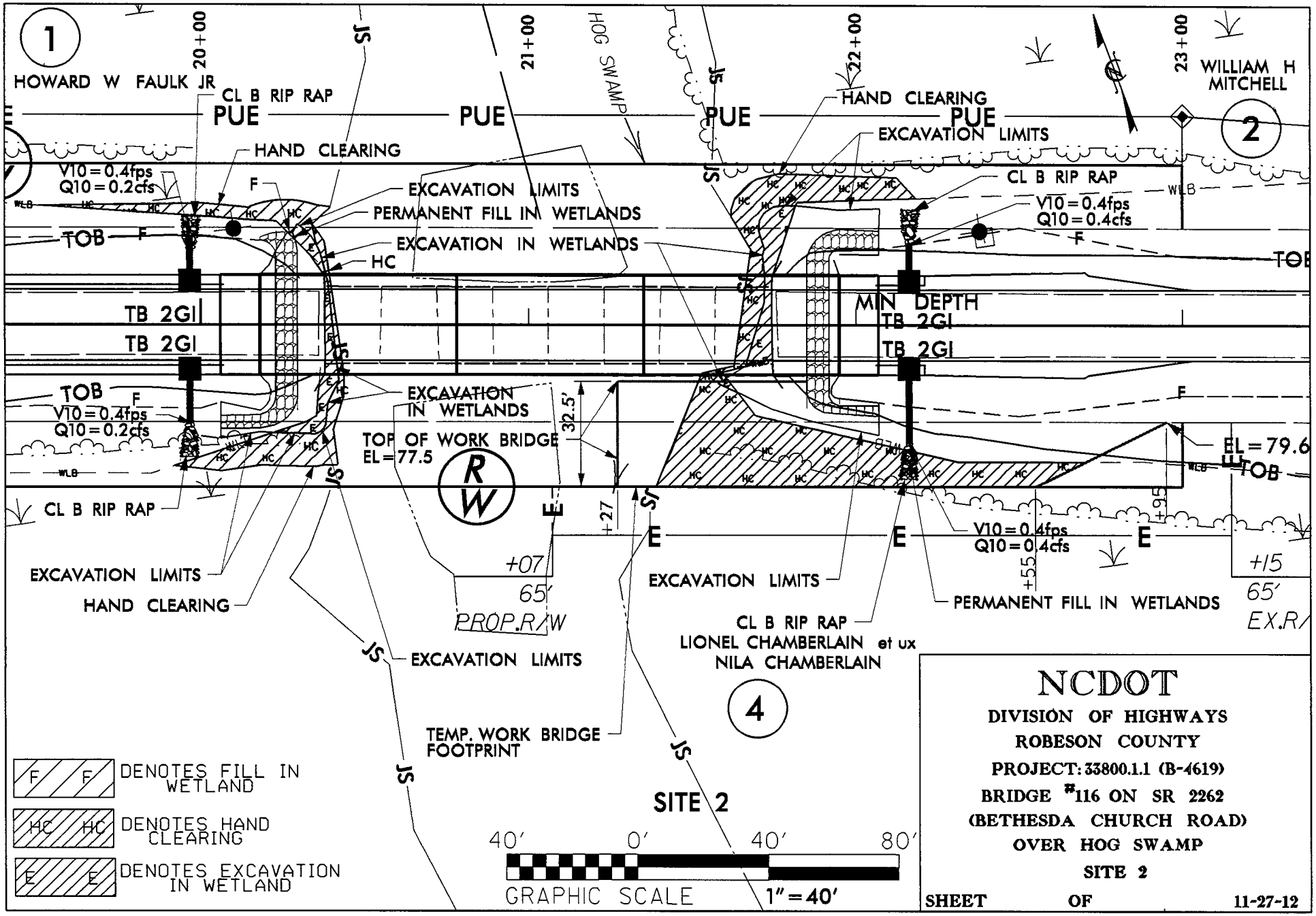


NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 33800.1.1 (B-4619)
BRIDGE #116 ON SR 2262
(BETHESDA CHURCH ROAD)
OVER HOG SWAMP
SITE 2

SHEET **OF** **11-27-12**

Permit Drawing
Sheet 5 of 13
Revised 11-27-13

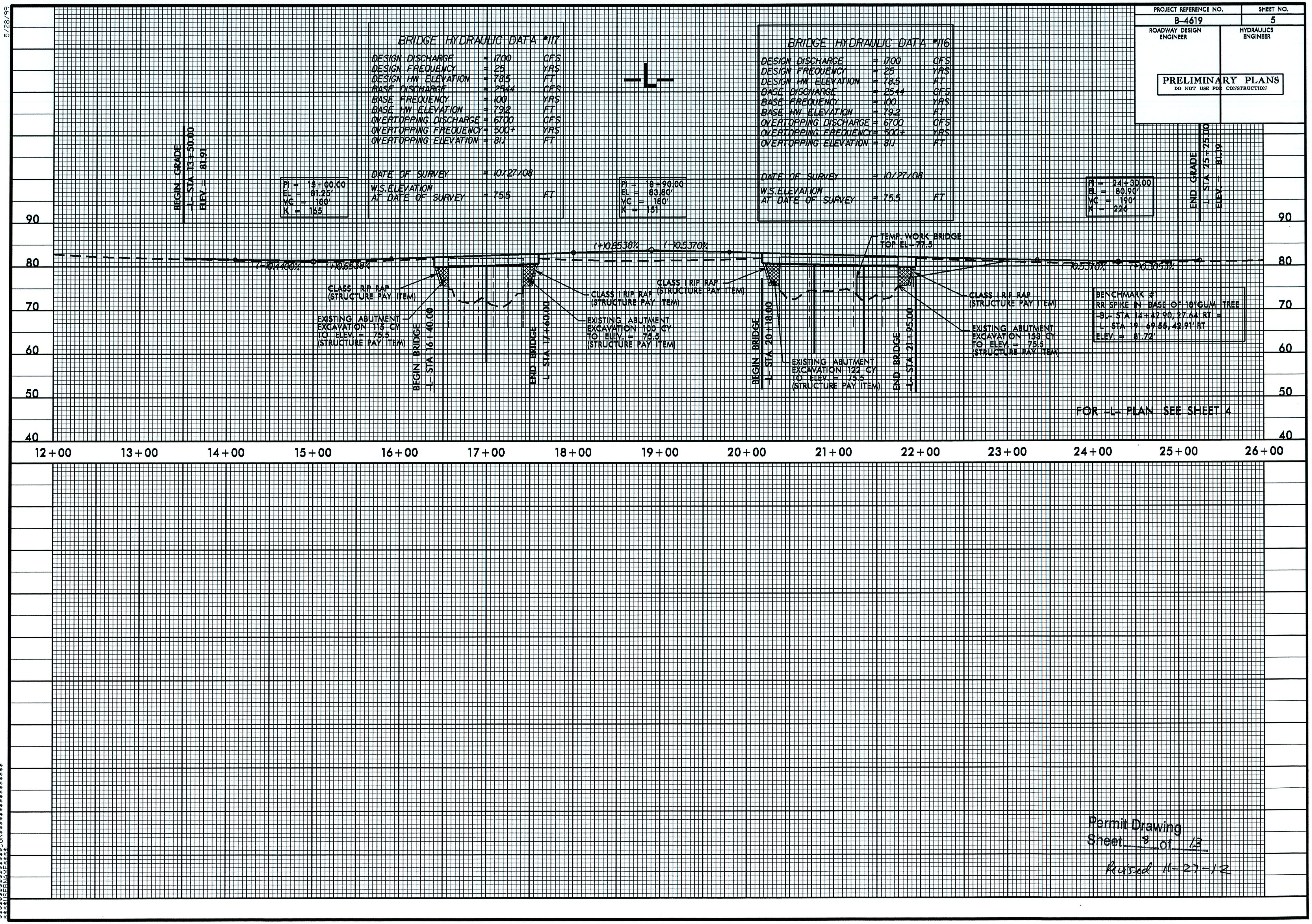


NCDOT

DIVISION OF HIGHWAYS
ROBESON COUNTY
PROJECT: 33800.1.1 (B-4619)
BRIDGE #116 ON SR 2262
(BETHESDA CHURCH ROAD)
OVER HOG SWAMP
SITE 2

SHEET **OF** **11-27-12**

Permit Drawing
Sheet 6 of 13
Revised 11-27-12


5/28/99
PROJECT REFERENCE NO.
B-4619
SHEET NO.
5
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
-L-
BRIDGE HYDRAULIC DATA #117
DESIGN DISCHARGE = 1700 CFS
DESIGN FREQUENCY = 25 YRS
DESIGN HW ELEVATION = 78.5 FT
BASE DISCHARGE = 2544 CFS
BASE FREQUENCY = 100 YRS
BASE HW ELEVATION = 79.2 FT
OVERTOPPING DISCHARGE = 6700 CFS
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING ELEVATION = 81.1 FT
DATE OF SURVEY = 10/27/08
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT
BRIDGE HYDRAULIC DATA #116
DESIGN DISCHARGE = 1700 CFS
DESIGN FREQUENCY = 25 YRS
DESIGN HW ELEVATION = 78.5 FT
BASE DISCHARGE = 2544 CFS
BASE FREQUENCY = 100 YRS
BASE HW ELEVATION = 79.2 FT
OVERTOPPING DISCHARGE = 6700 CFS
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING ELEVATION = 81.1 FT
DATE OF SURVEY = 10/27/08
W.S. ELEVATION AT DATE OF SURVEY = 75.5 FT
BEGIN GRADE -L- STA 13+50.00 ELEV. = 81.91
PI = 15+00.00 EL = 81.25' VC = 180' K = 165
PI = 18+90.00 EL = 83.80' VC = 180' K = 151
PI = 24+30.00 EL = 80.90' VC = 190' K = 226
END GRADE -L- STA 25+25.00 ELEV. = 81.19
(-)0.4400%
(+)0.6538%
(+)0.6538%
(-)0.5370%
(-)0.5370%
(+)0.3053%
TEMP. WORK BRIDGE TOP EL = 77.5
CLASS I RIP RAP (STRUCTURE PAY ITEM)
EXISTING ABUTMENT EXCAVATION 115 CY TO ELEV. = 75.5 (STRUCTURE PAY ITEM)
BEGIN BRIDGE -L- STA 16+40.00
END BRIDGE -L- STA 17+60.00
CLASS I RIP RAP (STRUCTURE PAY ITEM)
EXISTING ABUTMENT EXCAVATION 100 CY TO ELEV. = 75.5 (STRUCTURE PAY ITEM)
CLASS I RIP RAP (STRUCTURE PAY ITEM)
BEGIN BRIDGE -L- STA 20+18.00
EXISTING ABUTMENT EXCAVATION 122 CY TO ELEV. = 75.5 (STRUCTURE PAY ITEM)
END BRIDGE -L- STA 21+95.00
CLASS I RIP RAP (STRUCTURE PAY ITEM)
EXISTING ABUTMENT EXCAVATION 153 CY TO ELEV. = 75.5 (STRUCTURE PAY ITEM)
BENCHMARK #1
RR SPIKE IN BASE OF 18" GUM TREE
-BL- STA 14+42.90, 27.64' RT =
-L- STA 19+69.55, 42.91' RT
ELEV = 81.72'
FOR -L- PLAN SEE SHEET 4
90
80
70
60
50
40
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00
Permit Drawing
Sheet 8 of 13
Revised 11-27-12
$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$

8/23/99

0 5 10	PROJ. REFERENCE NO.	SHEET NO.
	B-4619	X-4

24 + 00.00

6:1 0.020 0.020 6:1 — 80.67

23 + 50.00

5:1 0.020 0.020 5:1 — 80.76

23 + 00.00

4:1 0.020 0.020 4:1 — 81.00

22 + 50.00

4:1 0.020 0.020 4:1 — 81.48

HAND CLEARING

WETLAND

22 + 00.00

3:1 0.020 0.020 3:1 — 81.84

WETLAND

HAND CLEARING

TEMP. WORK BRIDGE FOOTPRINT

END BRIDGE
-L- STA. 21 + 95.00

-1S

WETLAND

0.020 0.020

HAND CLEARING

TEMP. WORK BRIDGE FOOTPRINT

21 + 50.00

-L-

Permit Drawing
Sheet 11 of 13
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$$$$SYSTIME$$$$
$$$$YRDOY$$$$
$$$$USERID$$$$
$$$$DGN$$$$

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	16+35 LT	BRG 117	0.01				0.01					
1	16+50 LT	BRG 117						<0.01				
1	16+60 RT/LT/CNTR	BRG 117			0.01		0.01					
1	17+50 LT	BRG 117	<0.01				<0.01	<0.01				
1	17+50 RT	BRG 117	0.01		<0.01		0.02					
2	20+00 LT	BRG 116					0.01					
2	20+20 LT	BRG 116	<0.01									
2	20+40 RT/LT/CNTR	BRG 116			<0.01		<0.01					
2	21+60 RT	BRG 116			<0.01							
2	21+70 RT/LT/CNTR	BRG 116			0.01		0.06					
2	22+16 RT	Rip Rap pad	<0.01									
TOTALS:			0.02	0.00	0.02		0.11	<0.01	0.00	0	0	

PERMANENT SURFACE WATER IMPACTS FOR BENTS:
SITE 1: 8-14x73 HP Steel Piles used for the interior bent. Total Permanent Surface water impact < 0.01 ac
SITE 2: 8-14x73 HP Steel Piles used for each interior bent. Total Permanent Surface water impact < 0.01 ac

0.02 acres of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

SITE 2 Temporary Work Bridge Impacts:
Temporary Surface Water Impacts < 0.01 ac (4-12x74 HP Steel Piles)
Temporary Fill in Wetlands Impacts < 0.01 ac (10-12x74 HP Steel Piles)

ATN Revised 3/31/05

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROBESON COUNTY
WBS - 33800.1.1 (B-4619)

SHEET 11/27/2012

Permit Drawing
Sheet 13 of 13
Revised 11-27-12

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
B-4619	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

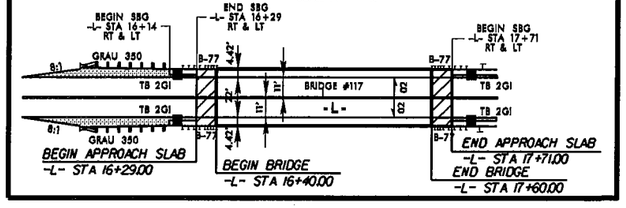
NEU PERMIT DRAWING (Nov 14, 2012)

B-4619 BRIDGES NO. 116 AND 117 ON SR 2262 (BETHESDA CHURCH RD) OVER HOG SWAMP

NAD 83/95

SKETCH OF BRIDGE IN RELATIONSHIP TO PAVEMENT

SCALE : 1" = 40'



HAND CLEARING IN THE WETLAND
0.1783 ACRES SITE 2

PROP O/H POW LINES

FILL IN WETLAND
POWER POLE
0.0010 ACRES

PROP U/G TEL CABLES
BY DIRECTIONAL BORE

HAND CLEARING IN THE WETLAND
0.2673 ACRES SITE 1

FILL IN WETLAND
POWER POLE
0.0005 ACRES

BEGIN TIP PROJECT B-4619
-L- STA 13+50.00

END TIP PROJECT B-4619
-L- STA 25+25.00

FILL IN WETLAND
POWER POLE
0.0005 ACRES

HOWARD W FAULK JR
DB 76 PG 424

WILLIAM H MITCHELL
DB 198 PG 319

DONNA PREVATTE
DB 458 PG 59

LIONEL CHAMBERLAIN ⊕† UX
NILA CHAMBERLAIN
DB 1558 PG 126

BEGIN BRIDGE
-L- STA 20+18.00

BEGIN APPROACH SLAB
-L- STA 20+07.00

END BRIDGE
-L- STA 21+95.00

END APPROACH SLAB
-L- STA 22+06.00

END APPROACH SLAB
-L- STA 17+71.00

END BRIDGE
-L- STA 17+60.00

BEGIN APPROACH SLAB
-L- STA 16+29.00

BEGIN BRIDGE
-L- STA 16+40.00

BL-2

BL-3

BM#1

S 81° 49' 52" E

N 02°29'40" E
140.98'

CLASS I RIP RAP (STRUCTURE PAY ITEM)

CL B RIP RAP
1 TON
5 SY FF

ABUTMENT EXCAVATION (STRUCTURE PAY ITEM)

BRIDGE #116

BRIDGE #117

SR 2262 BETHESDA CHURCH RD 20' BST

EXISTING R/W

60' TAPER RT/LT

CUT TIMBER

WOODS

GRAU 350

+10.00 65' EX.R/W

+50.00 50' EX.R/W

+00 80' EX.R/W

+00 50' EX.R/W

+07 65' PROP.R/W

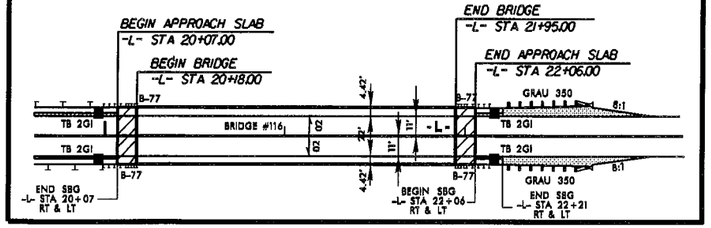
+25.00 50' EX.R/W

+15 65' EX.R/W

+00 50' EX.R/W

SKETCH OF BRIDGE IN RELATIONSHIP TO PAVEMENT

SCALE : 1" = 40'



HC HC DENOTES HAND CLEARING

PAVED SHOULDER

HAND CLEARING IN THE WETLAND
0.1164 ACRES SITE 3

Utility Permit Drawing
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FOR -L- PROFILE SEE SHEET 5
FOR STRUCTURE PLANS, SEE SHEETS S-1 TO S

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WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS: Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	SURFACE WATER IMPACTS: Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L-12+10 TO 16+34	Aerial Power line	< 0.01				0.27					
2	-L-17+46 TO 20+47	Aerial Power line	< 0.01				0.18					
3	-L-21+88 TO 25+25	Aerial Power line	< 0.01				0.12					
TOTALS:			< 0.01	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00

Note : 4.00 sq. ft. (Each) = 0.0001 ac (Each) permanent impact in the wetlands from pole installation.
Total = 20.00 sq. ft.
= 0.0005 ac
= < 0.01 ac

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
ROBESON COUNTY
TIP PROJECT (B-4619)

11/14/2012

ATN Revised 3/31/05

Utility Permit Drawing
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Revised 11-27-2012