



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

April 1, 2013

U.S. Army Corps of Engineers
69 Darlington Ave.
Wilmington, NC 28403

Attention: Mr. Ronnie Smith
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 Nationwide Permits (NWP) 23 & 12 and Section 401 Water Quality Certification** for the replacement of Bridge Nos. 94 and 95 on SR 1005 over Grissett Swamp in Columbus County; TIP Project B-5115; Federal Aid Project No. BRSTP-1005(20); Debit \$240 from WBS No. 42255.1.1.

Please find enclosed PCN, EEP Acceptance Letter, permit drawings, stormwater management plan, utility plans and roadway plans for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A programmatic Categorical Exclusion (CE) was completed for this project on April 30, 2012 and distributed shortly thereafter. Additional copies are available upon request.

The NCDOT proposes to replace existing Bridge Nos. 94 and 95 over Grissett Swamp on SR 1005 in Columbus County. The project involves replacement of the existing structurally deficient bridges and approaches with new structures. Bridge No. 94 (2 spans @ 18') will be replaced with a 2 span cored slab with spans of 52'-2 1/4" and 36'-2 1/4". The bent will have a steel pile foundation. Bridge No. 95 (2 spans @18') will be replaced with a 2 span cored slab bridge with spans of 35' and 45'. The bent will have a steel pile foundation.

Proposed permanent impacts to riparian wetlands from bridge construction are 0.29 acre of fill. Traffic will be detoured off-site during construction.

This project calls for a letting date of October 14, 2013 with a review date of August 27, 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 12 for utility relocations.

Section 401 Permit: We anticipate 401 General Certification numbers 3891 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. Authorization to debit the \$240 Permit Application Fee from WBS Element 42255.1.1 is hereby given.

A copy of this 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,

for 

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

cc

NCDOT Permit Application Standard Distribution List.



Office Use Only:
Corps action ID no. _____
DWQ project no. _____
Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit	☐ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	☐ Yes	☒ No
1d. Type(s) of approval sought from the DWQ (check all that apply): ☒ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit ☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: ☐ Yes ☒ No	For the record only for Corps Permit: ☐ Yes ☒ No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	☒ Yes	☐ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	☐ Yes	☒ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	☐ Yes	☒ No

2. Project Information

2a. Name of project:	Replacement of Bridge Nos. 94 & 95 over Grissett Swamp on SR 1005
2b. County:	Columbus
2c. Nearest municipality / town:	Whiteville
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-5115

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6107
3g. Fax no.:	(919) 250-4224
3h. Email address:	gcashin@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	☐ Agent ☐ Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History		
1. Property Identification		
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>	
1b. Site coordinates (in decimal degrees):	Latitude: 34.148874 (DD.DDDDDD)	Longitude: - 78.781682 (-DD.DDDDDD)
1c. Property size:	12.42 acres	
2. Surface Waters		
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Grissett Swamp	
2b. Water Quality Classification of nearest receiving water:	C; Sw	
2c. River basin:	Lumber	
3. Project Description		
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained / disturbed roadside shoulder and agriculture in addition to forested wetlands. Land use in the project vicinity is predominantly forested with some agriculture.		
3b. List the total estimated acreage of all existing wetlands on the property: 7.59		
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 212		
3d. Explain the purpose of the proposed project: To replace structurally deficient and functionally obsolete bridges.		
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 36-foot bridge with a 88-foot bridge and a second 36-foot bridge with an 80-foot bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.		
4. Jurisdictional Determinations		
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Requested 3/16/09	☒ Yes ☐ No ☐ Unknown	
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☒ Preliminary ☐ Final	
4c. If yes, who delineated the jurisdictional areas? Name (if known): Keven Duerr & Robert Lepsic	Agency/Consultant Company: Arcadis Other:	
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. Kim Garvey signed a preliminary jurisdictional determination form on 12/15/09 (attached).		
5. Project History		
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown	
5b. If yes, explain in detail according to "help file" instructions.		
6. Future Project Plans		
6a. Is this a phased project?	☐ Yes ☒ No	
6b. If yes, explain.		

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	0.29	
Site 2 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 3 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 4 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 5 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
2g. Total wetland impacts					0.29 Permanent	
2h. Comments: There will be 0.57 ac of hand clearing due to roadway construction and 0.12 ac of hand clearing due to utilities. Additionally, there will be 0.05 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						
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				
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				

4f. Total open water impacts

4g. Comments:

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:

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			☐ Neuse ☐ Catawba			☐ Tar-Pamlico ☐ Randleman		☐ Other:	
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)				
B1 ☐ P ☐ T			☐ Yes ☐ No						
B2 ☐ P ☐ T			☐ Yes ☐ No						
B3 ☐ P ☐ T			☐ Yes ☐ No						
6h. Total buffer impacts									
6i. Comments:									

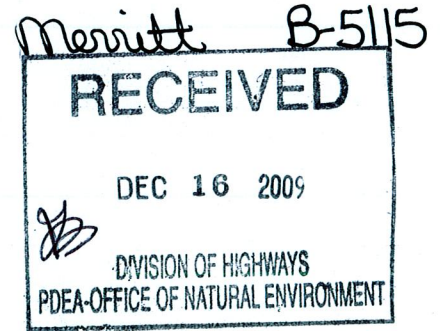
D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridges are longer than the existing bridges; the proposed bridges will be at approximately the same grade as the existing structures; 3:1 fill slopes where practicable. No deck drains. Removal of existing road fill for longer bridge and increasing bridge opening will improve hydrological conveyance and reduce bridge opening velocities.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Open trench excavation minimized for utility relocation by using trenchless (directional bore) methodology; further permanent utility impacts minimized by placement of impact within area to be filled due to bridge construction; aerial lines relocated by adding mast arms to existing poles rather than moving utility poles. An off site detour will be used. Stormwater control measures will be placed outside wetlands where practicable. BMP's for the Protection of Surface Waters will be utilized.		
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:	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☒ Corps	
2c. If yes, which mitigation 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:	0.58 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. NC EEP will provide wetland mitigation		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				☐ Yes ☒ No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
	6f. Total buffer mitigation required:			
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).				
6h. Comments:				

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes ☒ No
1b. If yes, then is a diffuse flow plan included? If not, explain why. Comments:	☒ Yes ☐ No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	☒ Yes ☐ No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government ☐ DWQ Stormwater Program ☒ DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal counties ☐ HWQ ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☒ Yes ☐ No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes ☐ No N/A
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	☒ Yes ☐ No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	☒ Yes ☐ No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	☒ Yes ☐ No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☒ No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☐ Yes	☒ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☐ Yes	☒ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☐ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NCNHP, USFWS, field surveys		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☒ Yes	☐ No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
<u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	<u>4.1.13</u> Date



ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): October 22, 2009

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
North Carolina Department of Transportation, Office of Natural Environment,
Attn: John Merritt, 4701 Atlantic Ave, Suite 116, Raleigh, NC 27604

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: SAW-2009-01942
(NCDOT/B-5115/Bridge along Peacock Road (SR 1005) over Grissett Swamp near Tabor City, Columbus County/Div. 6)

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Bridges on SR 1005 (Peacock Road) over Grissett Swamp near Tabor City, NC
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: Columbus City: Tabor City
Center coordinates of site (lat/long in degree decimal format): Lat.
34.150382° N, Long. -78.775727° W. Universal Transverse Mercator:
Name of nearest waterbody: Grissett Swamp

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 300 linear feet: 20 width (ft) and/or acres.

Cowardin Class:

Stream Flow:

Wetlands: 7.32 acres.

Cowardin Class: Forested

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal:

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: October 22, 2009

☐ Field Determination. Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party

who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "*may be*" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Arcadis on behalf of NC DOT.
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- ☐ Office concurs with data sheets/delineation report.
- ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps:
- ☐ Corps navigable waters' study:
- ☐ U.S. Geological Survey Hydrologic Atlas:
- ☐ USGS NHD data.
- ☐ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: Tabor City East, NC.
- ☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Soil Survey of Columbus County, NC, (1990); figure provided is GIS data provided by NRCS.
- ☒ National wetlands inventory map(s). Cite name: statewide NWI GIS data file from CGIA.
- ☐ State/Local wetland inventory map(s):
- ☒ FEMA/FIRM maps: statewide FEMA GIS data file from CGIA.
- ☒ 100-year Floodplain Elevation is: 54 (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date):
or ☐ Other (Name & Date):
- ☐ Previous determination(s). File no. and date of response letter:
- ☐ Other information (please specify):

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory Project Manager
(REQUIRED)

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)



March 5, 2013

Mr. Gregory J. Thorpe, Ph.D.
Manager, Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-5115, Replace Bridge Numbers 94 and 95 over Grissett Swamp on SR 1005,
Columbus County

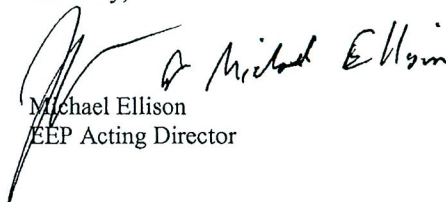
The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory riparian wetland mitigation for the subject project. Based on the information supplied by you on February 28, 2013, the impacts are located in CU 03040203 of the Lumber River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Lumber 03040203 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.29	0	0	0	0

This impact and associated mitigation need were under projected by the NCDOT in the 2013 impact data. EEP will commit to implement sufficient compensatory riparian wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

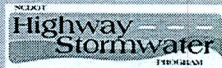
Sincerely,


Michael Ellison
EEP Acting Director

cc: Mr. Ronnie Smith, USACE – Wilmington Regulatory Field Office
Ms. Amy Chapman, Division of Water Quality, Wetlands/401 Unit
File: B-5115

Restoring... Enhancing... Protecting Our State





North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS

(Version 1.2; Released September 2011)

Project/TIP No.: B-5115

County(ies): Columbus

Page 1 of 1

General Project Information

Project No.:	B-5115	Project Type:	Bridge Replacement	Date:	1/23/2013	
NCDOT Contact:	Bill Zerman, PE	Contractor / Designer:	Sungate Design Group, P.A.			
Address:	1020 Birch Ridge Road Raleigh, NC 27610	Address:	915 Jones Franklin Road Raleigh, NC 27606			
	Phone:		919-707-6755	Phone:	919-859-2243	
	Email:		bzerman@ncdot.gov	Email:	belam@sungatedesign.com	
City/Town:	Tabor City	County(ies):	Columbus			
River Basin(s):	Lumber	CAMA County?	No			
Primary Receiving Water:	Grissett Swamp	NCDWQ Stream Index No.:	15-17-1-(5)			
NCDWQ Surface Water Classification for Primary Receiving Water	Primary:	Class C				
	Supplemental:	Swamp Waters (Sw)				
Other Stream Classification:	None					
303(d) Impairments:	None					
Buffer Rules in Effect	N/A					

Project Description

Project Length (lin. Miles or feet):	0.32	Surrounding Land Use:	Rural, Agriculture	
	Proposed Project		Existing Site	
Project Built-Upon Area (ac.)	1.07 ac.		0.87 ac.	
Typical Cross Section Description:	2-Lane Shoulder Section		2-Lane Shoulder Section	
Average Daily Traffic (veh/hr/day):	Design/Future: 3100	Existing:	2050	

General Project Narrative: B-5115 involves the removal and replacement of Columbus county bridge number 94 and 95 along with improvements to their approaches. Rock fill with 1.5:1 slopes have been utilized in some areas, reducing permanent impacts to surrounding wetlands. Area's between the fill and easement will be hand cleared, also reducing permanent wetland impacts. Further, bridge deck drains will not be used on this project, reducing impacts to surface waters associated with direct roadway runoff.

References

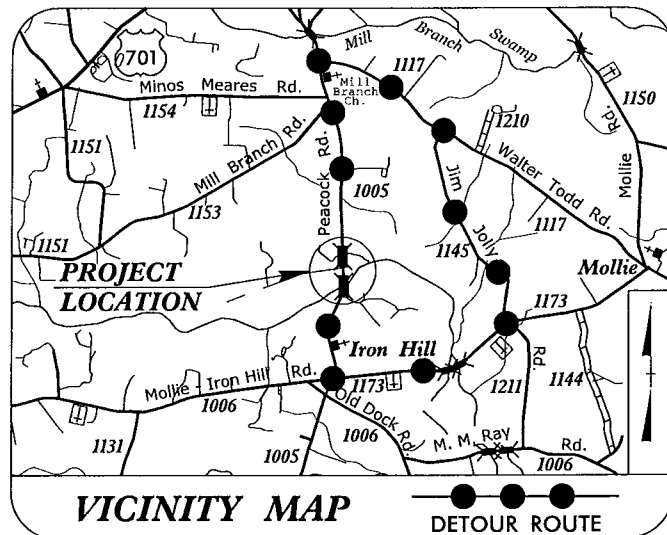
09/08/99

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

TIP PROJECT: B-5115

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

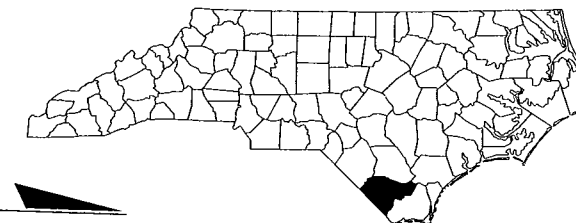
COLUMBUS COUNTY

LOCATION: BRIDGES NO. 94 & 95 ON SR 1005 (PEACOCK ROAD)
OVER GRISSETT CREEK

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

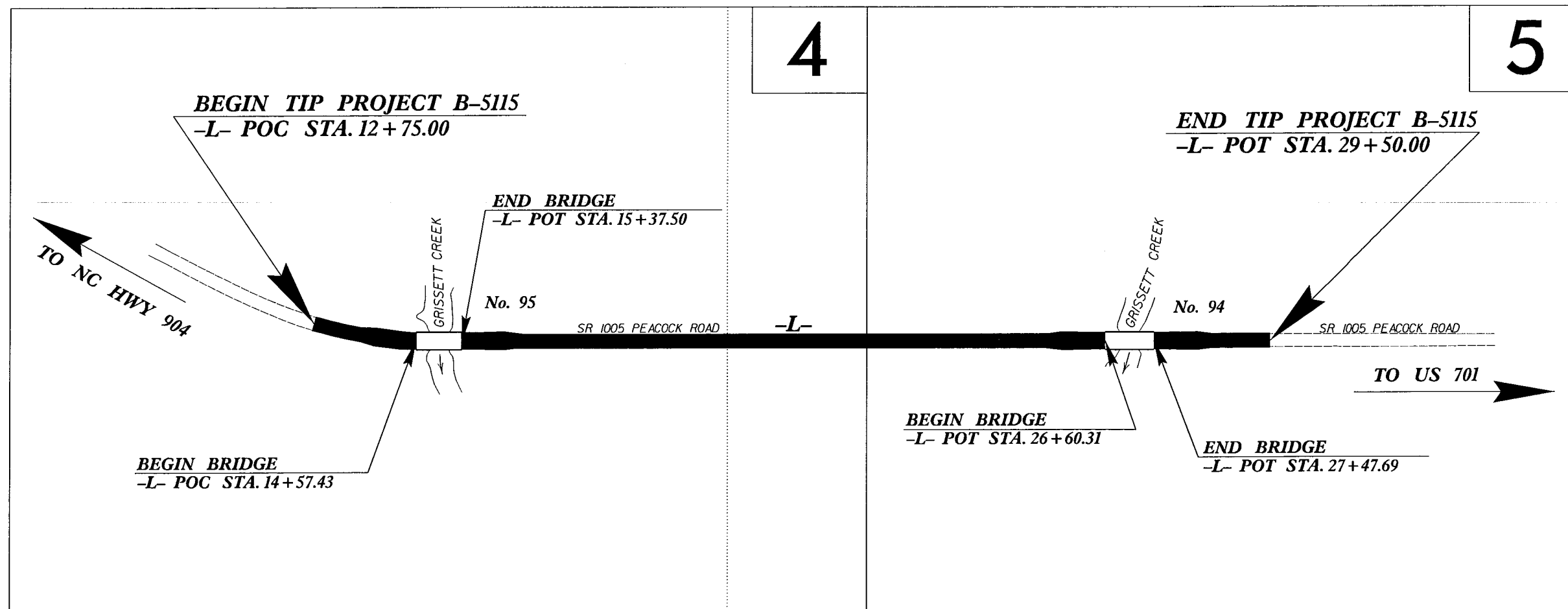


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5115	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42255.1.1	BRSTP-1005(20)	PE	
42255.2.1	BRSTP-1005(20)	R/W & UTIL	



NAD 83/
NSRS 2007

WETLAND AND SURFACE WATER IMPACTS PERMIT

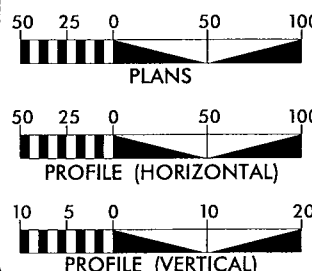


THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD II.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 2050
ADT 2033 = 3100
DHV = 12 %
D = 60 %
T = 5 % *
V = 50 MPH
*(TTST 1% + DUAL 4%)
FUNC CLASS = LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5115 = 0.285 MI
LENGTH STRUCTURE TIP PROJECT B-5115 = 0.032 MI
TOTAL LENGTH TIP PROJECT B-5115 = 0.317 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 27, 2012

LETTING DATE:
OCTOBER 15, 2013

REKHA PATEL, PE
PROJECT ENGINEER

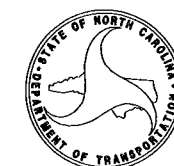
BRIAN P. ROBINSON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.

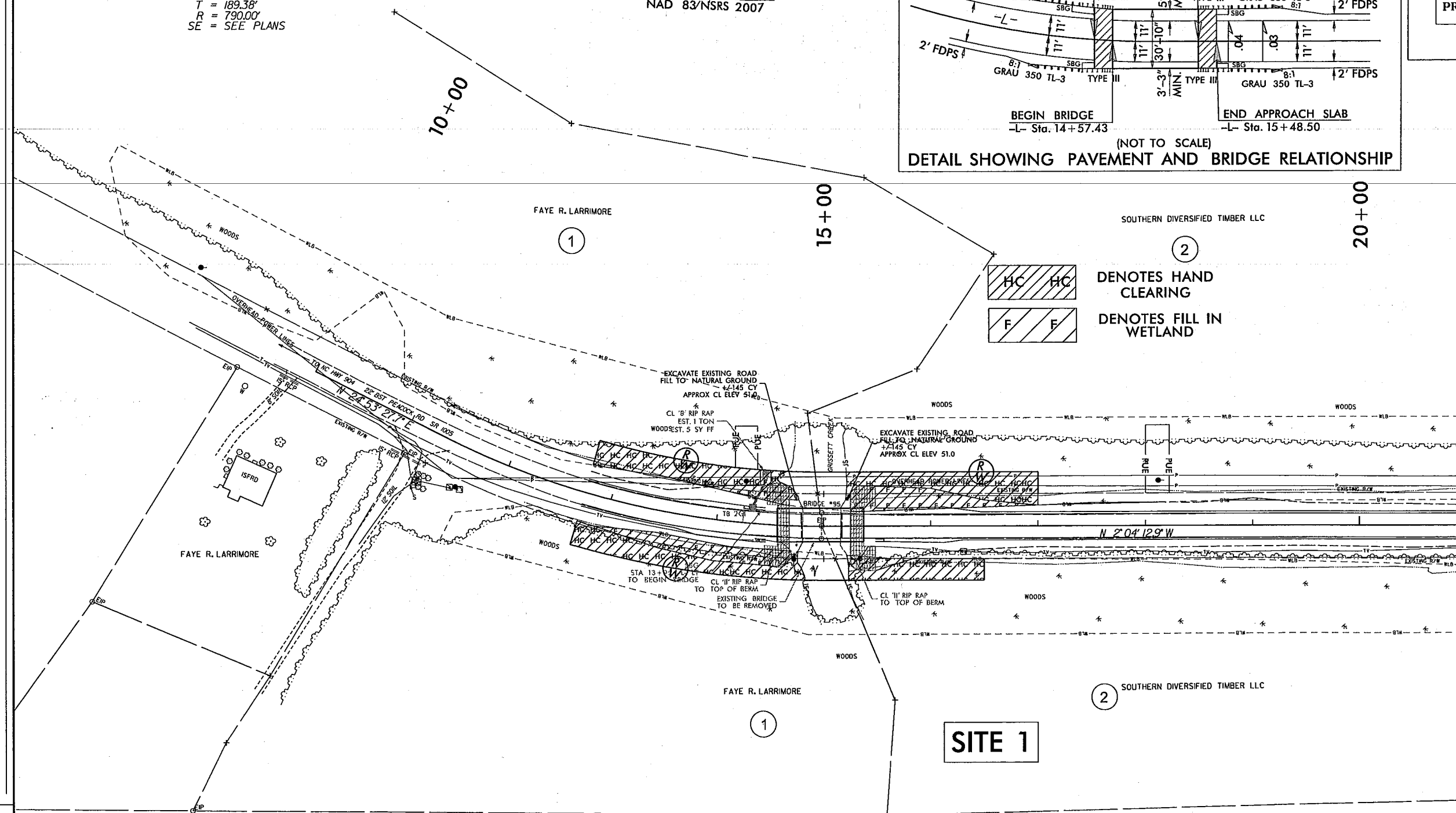
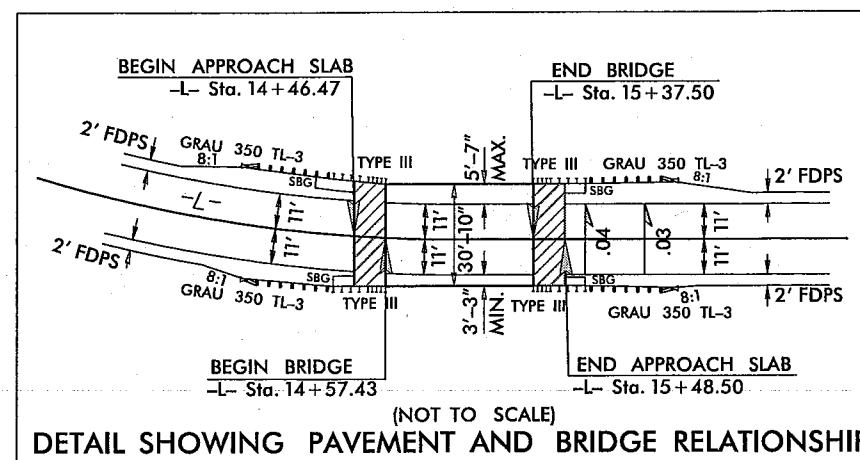


Permit Drawing
Sheet 1 of 8

PROJECT REFERENCE NO.	SHEET NO.
B-5115	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PI Sta 13+18.22
 $\Delta = 26^\circ 57' 40.6''$ (LT)
 $D = 7^\circ 15' 09.5''$
 $L = 371.74'$
 $T = 189.38'$
 $R = 790.00'$
 SE = SEE PLANS

NAD 83/NSRS 2007



MATCHLINE SEE SHEET "5" STA 21+00

Permit Drawing
Sheet 2 of 8
Revised 4/8/13

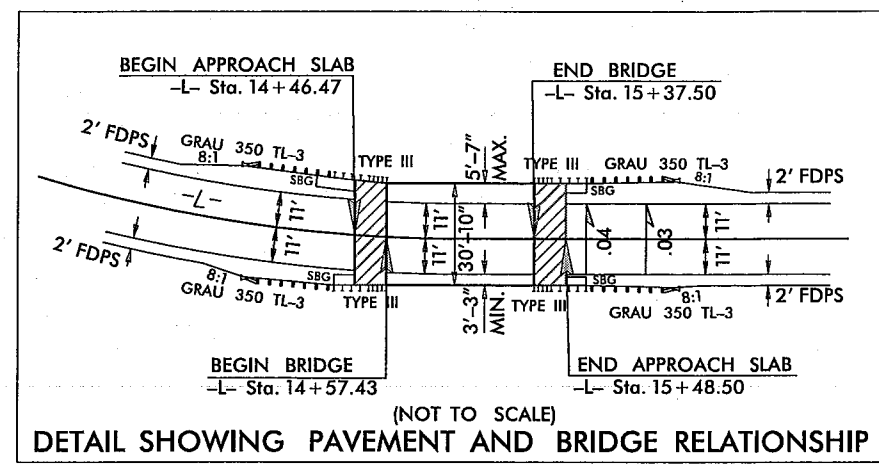
NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

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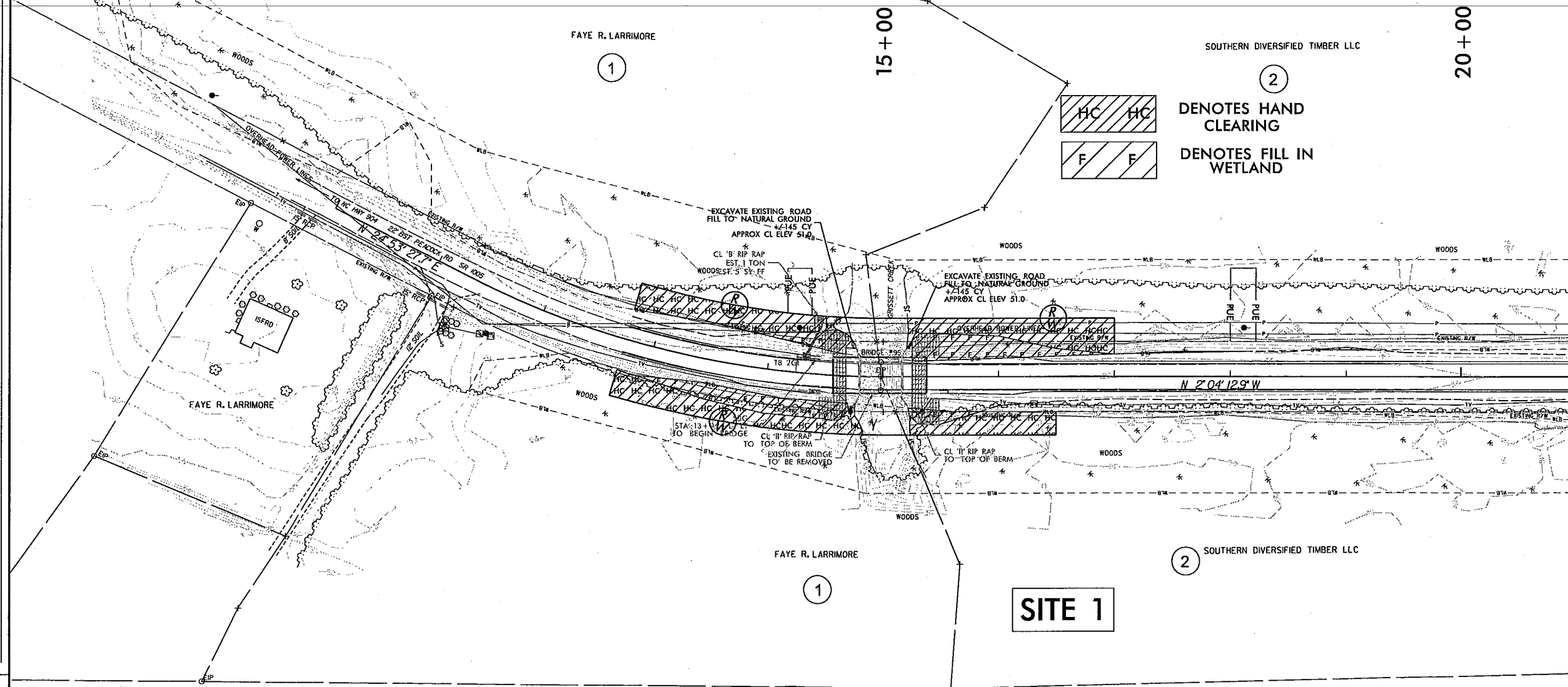
8/17/99

PI Sta 13+18.22
 $\Delta = 26^\circ 57' 40.6''$ (LT)
 $D = 7^\circ 15' 09.5''$
 $L = 371.74'$
 $T = 189.38'$
 $R = 790.00'$
SE = SEE PLANS

NAD 83/NSRS 2007



PROJECT REFERENCE NO.	SHEET NO.
B-5115	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



MATCHLINE SEE SHEET "5" STA 21+00

SITE 1

Permit Drawing
Sheet 3 of 8
Revised 4/9/13

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

4/7/2013
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8/17/99

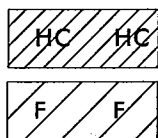
REVISIONS

4/7/2013
B5115_Hyd_prm_wet.pst05.dgn
User: b5115

NAD 83/NSRS 2007

2 SOUTHERN DIVERSIFIED TIMBER LLC

25+00



HC HC
F F
DENOTES HAND
CLEARING
DENOTES FILL IN
WETLAND

MATCHLINE SEE SHEET "4" STA 21+00

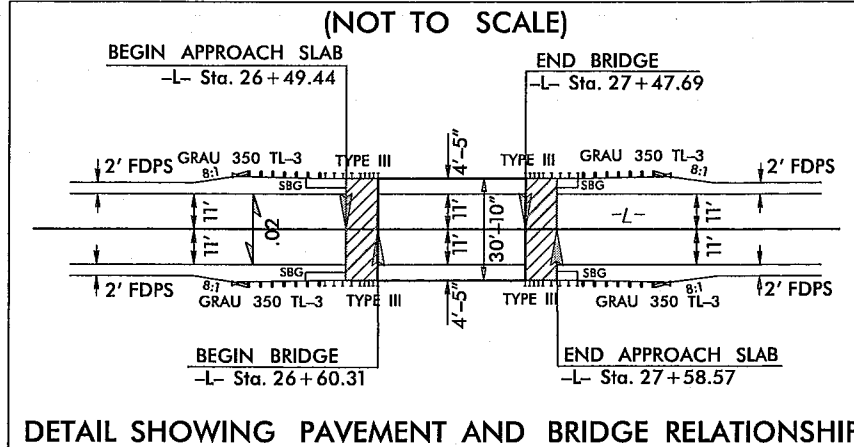
2 SOUTHERN DIVERSIFIED TIMBER LLC

SITE 2

DIANA GASKINS HARDWICK

3

30+00



PROJECT REFERENCE NO. B-5115	SHEET NO. 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Permit Drawing
Sheet 4 of 8
Revised 4/8/13

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

8/17/99

4/7/2013
B5115-Hyd-prm-wet-psn05.dgn
User: b5115

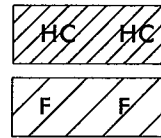
REVISIONS

MATCHLINE SEE SHEET "4" STA 21+00

NAD 83/NSRS 2007

2 SOUTHERN DIVERSIFIED TIMBER LLC

25+00



DENOTES HAND
CLEARING
DENOTES FILL IN
WETLAND

2 SOUTHERN DIVERSIFIED TIMBER LLC

SITE 2

DIANA GASKINS HARDWICK

3

WOODS

EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
+/-465 CY
APPROX CL ELEV 51.0

EXISTING BRIDGE
TO BE REMOVED

CL 'B' RIP-RAP
EST. 1 TON
+/-5 SY-FF

CL 'H' RIP-RAP
TO TOP OF BERM

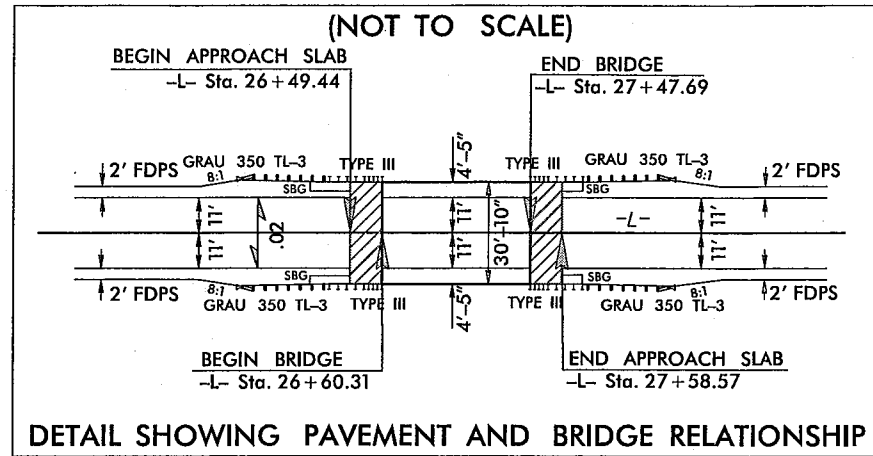
CL 'H' RIP-RAP
TO TOP OF BERM
EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
+/-4170 CY
APPROX CL ELEV 51.0

DIANA GASKINS HARDWICK

3

CULTIVATED

PROJECT REFERENCE NO.	SHEET NO.
B-5115	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



30+00

Permit Drawing
Sheet 5 of 8
Revised 4/8/13

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

5/28/99

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 1600	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 53.6	FT
BASE DISCHARGE	= 2400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 53.9	FT
OVERTOPPING DISCHARGE	= 2800	CFS
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING ELEVATION	= 54.1	FT

Site # 1

BEGIN GRADE
-L- STA 12 + 75.00
EL = 56.24'

BEGIN BRIDGE
-L- STA 14 + 57.43

PI = 15 + 20.00
EL = 56.67'
VC = 130'
K = 146

#93
CL STA 14 + 57.5 -L-
1@35' 1@45' 18" CORED SLAB (OAL = 80')
SKEW = 90°
CR GR EL = 56.48

END BRIDGE
-L- STA 15 + 37.50

END GRADE
BEGIN RESURFACING
-L- STA 17 + 00.00
EL = 56.11'

EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
(STRUCTURE PAY ITEM)

CL 11" w/CL 8" RIP RAP
(STRUCTURE PAY ITEM)

EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
(STRUCTURE PAY ITEM)

CL 11" w/CL 8" RIP RAP
(STRUCTURE PAY ITEM)

NOTE: SEE SHEET NO. 4 FOR PLAN VIEW

BM #1
RR SPIKE IN BASE OF 15" PINE
ELEV = 54.08'
-BL- STA 16 + 13.00 18' RT
-L- STA 21 + 83.32 34.80' RT

Site # 2

END RESURFACING
BEGIN GRADE
-L- STA 25 + 50.00
EL = 55.82'

BEGIN BRIDGE
-L- STA 26 + 60.31

END BRIDGE
-L- STA 27 + 47.69

END GRADE
-L- STA 29 + 50.00
EL = 55.01'

#94
CL STA 27.04 -L-
1@50' 1@35' 21" CORED SLAB (OAL = 85')
SKEW = 90°
CR GR EL = 56.44

PI = 27 + 90.00
EL = 56.78'
VC = 130'
K = 87

EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
(STRUCTURE PAY ITEM)

CL 11" w/CL 8" RIP RAP
(STRUCTURE PAY ITEM)

EXCAVATE EXISTING ROAD
FILL TO NATURAL GROUND
(STRUCTURE PAY ITEM)

CL 11" w/CL 8" RIP RAP
(STRUCTURE PAY ITEM)

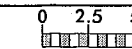
BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1600	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 53.6	FT
BASE DISCHARGE	= 2400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 53.9	FT
OVERTOPPING DISCHARGE	= 2800	CFS
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING ELEVATION	= 54.1	FT

Permit Drawing
Sheet 6 of 8
Revised 4/8/13

NOTE: SEE SHEET NO. 5 FOR PLAN VIEW

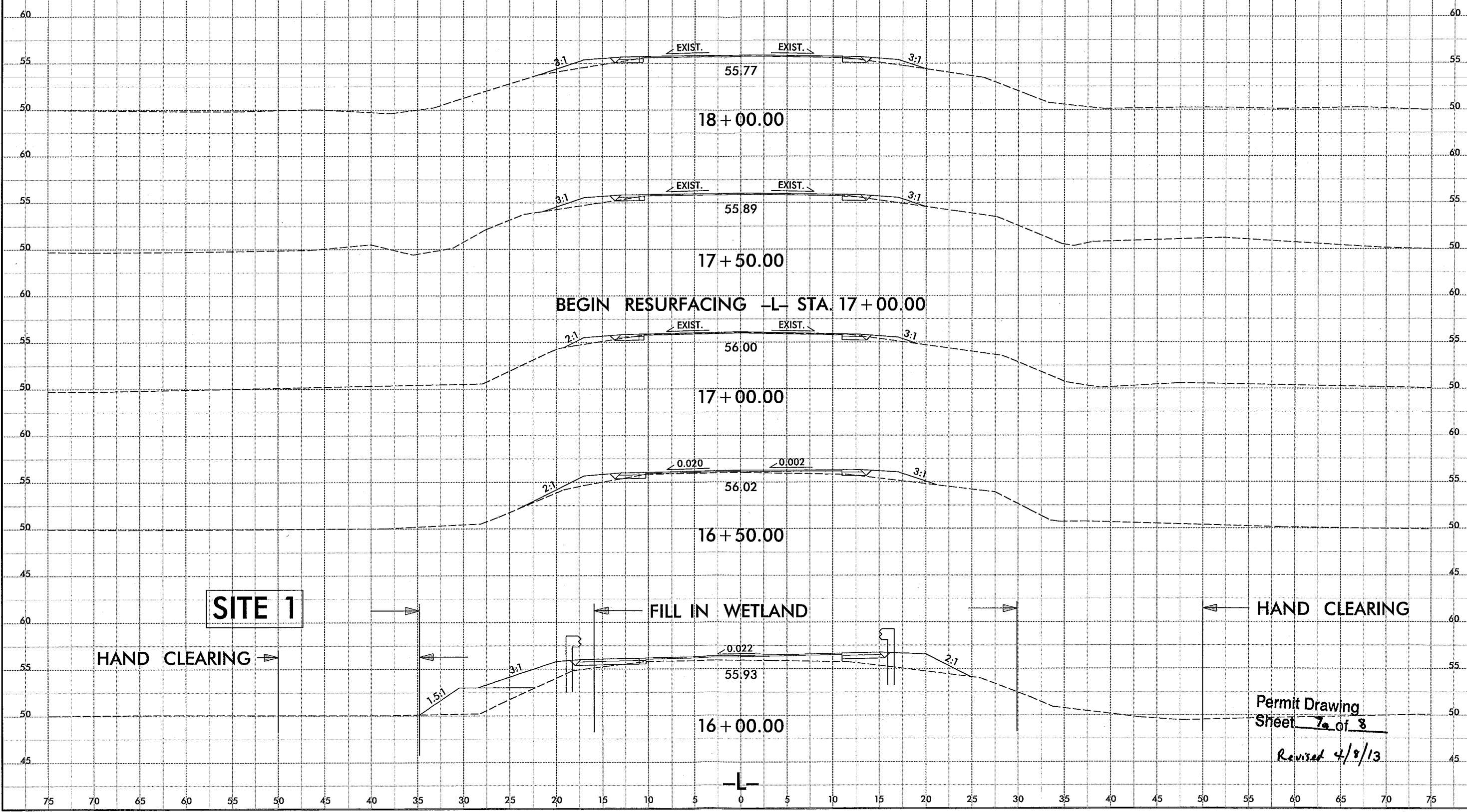
8/23/99



PROJ. REFERENCE NO.
B-5115

SHEET NO.
X-3

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



SITE 1

HAND CLEARING

FILL IN WETLAND

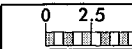
HAND CLEARING

Permit Drawing
Sheet 7a of 8

Revised 4/8/13

4/7/2013
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8/23/99



PROJ. REFERENCE NO.
B-5115

SHEET NO.
X-7

75

70

65

60

55

50

45

40

35

30

25

20

15

10

5

0

5

10

15

20

25

30

35

40

45

50

55

60

65

70

75

SITE 2

HAND CLEARING

FILL IN WETLAND

FILL IN WETLAND

HAND CLEARING

28 + 00.00

27 + 47.69
END BRIDGE -L- STA. 27 + 47.69

27 + 00.00

BEGIN BRIDGE -L- STA. 26 + 60.31

26 + 60.31

Permit Drawing
Sheet 76 of 8
Revised 4/8/13

4/7/2013
B5115.hyd.prm.wet.xpl.dgn
User: belom

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER 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)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	12+75 to 21+00 -L-	FILL	0.14				0.29					
2	21+00 to 29+50 -L-	FILL	0.15				0.28					
TOTALS:			0.29				0.57					

Note: 0.05 acres of Temporary Fill in Wetlands will be needed in the Hand Clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

COLUMBUS COUNTY
WBS - 42255.1.1 (B-5115)

SHEETRev. 4/8/2013

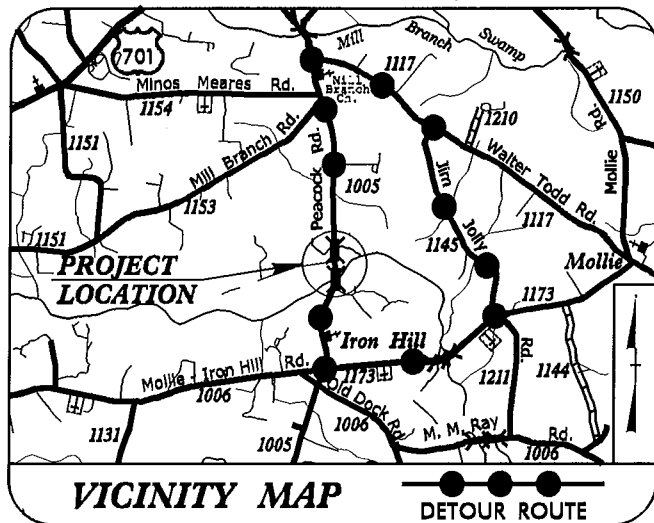
05/08/99

27-FEB-2013 11:4
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\$\$\$\$\$USERNAME\$\$\$\$\$

TIP PROJECT: B-5115

CONTRACT:

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
COLUMBUS COUNTY

NEU PERMIT PLANS
(December 17, 2012)

**LOCATION: BRIDGES NO. 94 & 95 ON SR 1005 (PEACOCK ROAD)
OVER GRISSETT CREEK**

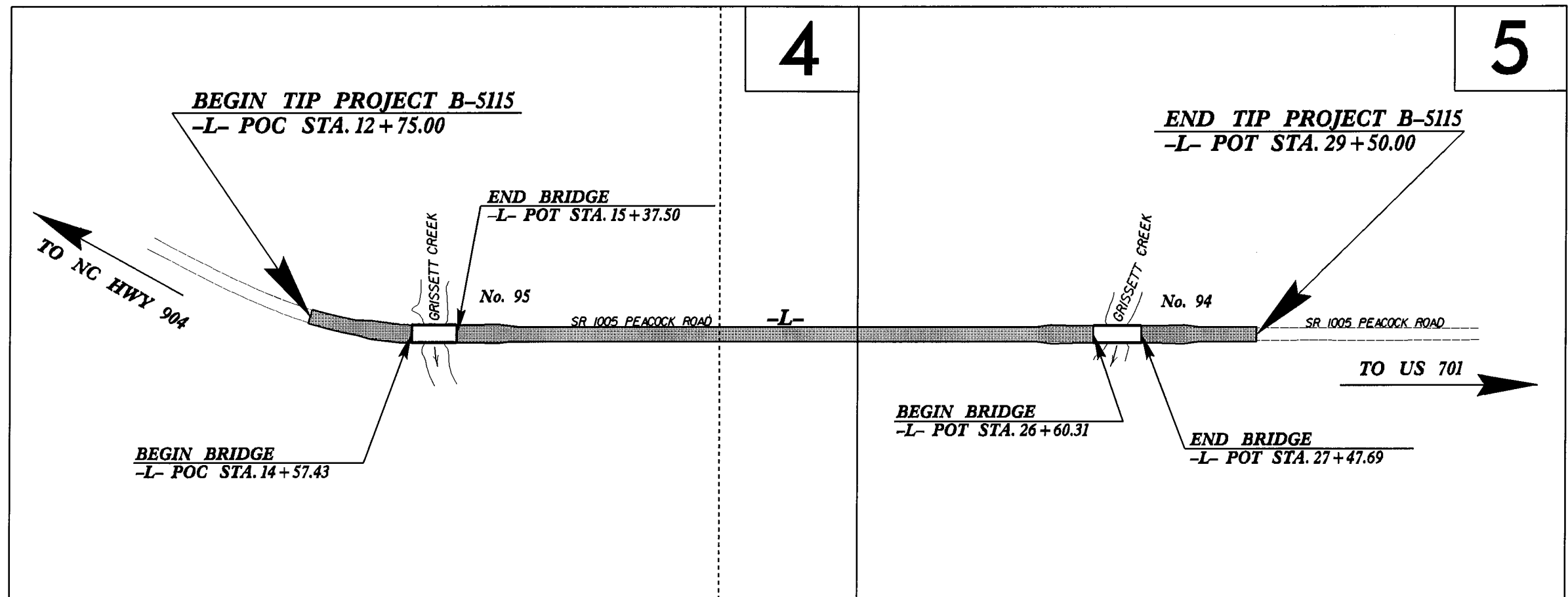
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

Utility Permit Drawing
Sheet 1 of 6

NAD 83/
NSRS 2007



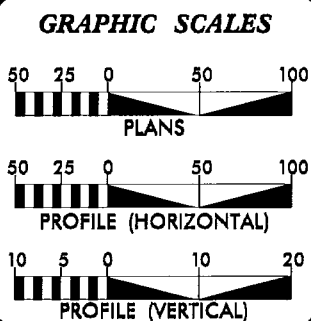
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5115	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42255.1.1	BRSTP-1005(20)	PE	
42255.2.1	BRSTP-1005(20)	R/W & UTIL	



**THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.**

**CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD II.**

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2012 = 2050
ADT 2033 = 3100
DHV = 12 %
D = 60 %
T = 5 % *
V = 50 MPH
*(TTST 1% + DUAL 4%)

FUNC CLASS = LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5115 = 0.285 MI
LENGTH STRUCTURE TIP PROJECT B-5115 = 0.032 MI
TOTAL LENGTH TIP PROJECT B-5115 = 0.317 MI

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 27, 2012

LETTING DATE:
OCTOBER 15, 2013

REKHA PATEL, PE
PROJECT ENGINEER

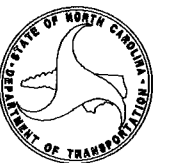
BRIAN P. ROBINSON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



8/17/99
04-APR-2013 14:59
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\$\$\$\$\$PERMITS\$\$\$\$\$

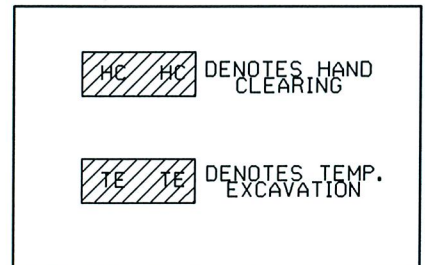
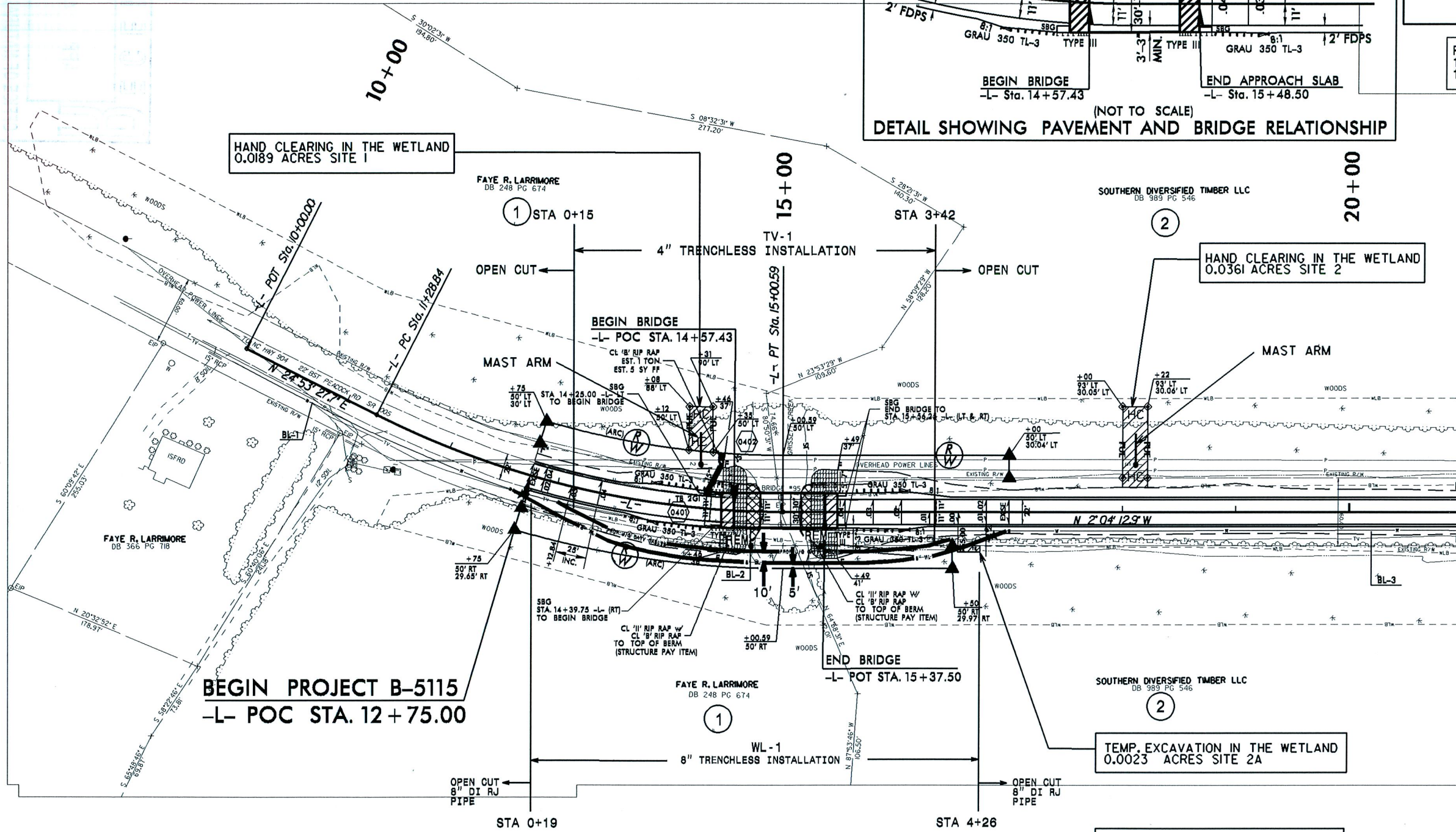
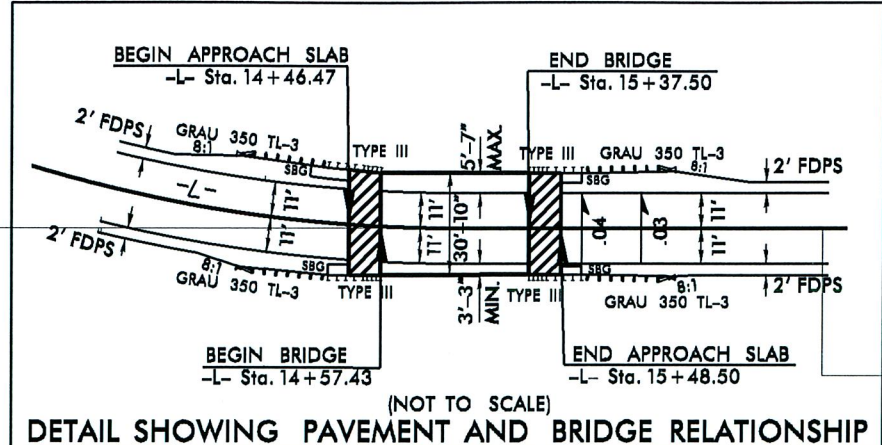
NEU PERMIT PLANS
Revised (April 4, 2013)

NAD 83/NSRS 2007

PROJECT REFERENCE NO.	SHEET NO.
B-5115	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLAN SCALE:
1"=50' (FULL-SIZE)
1"=100' (HALF-SIZE)



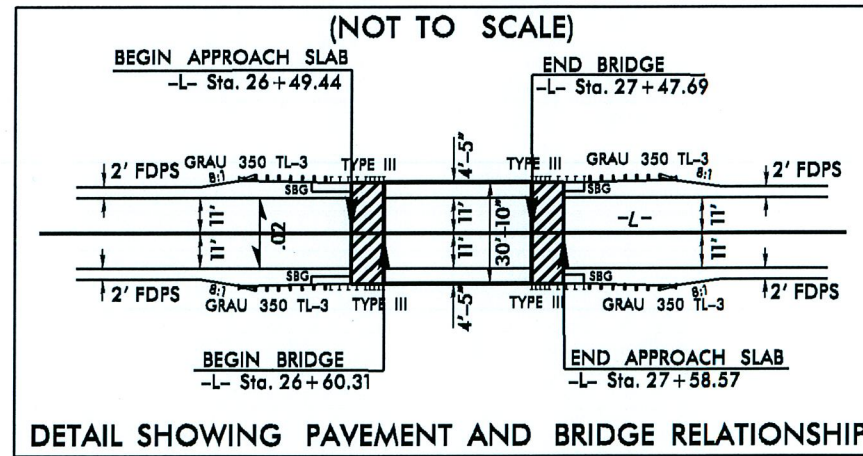
8/17/99

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NEU PERMIT PLANS (February 27, 2013)

NAD 83/NSRS 2007

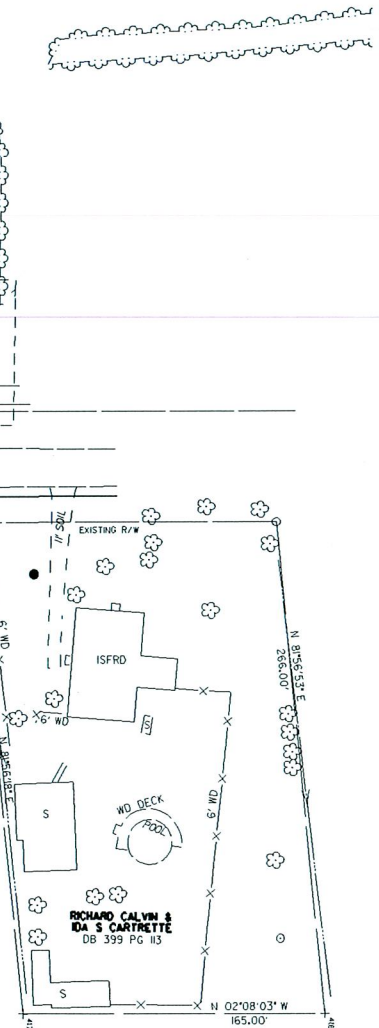
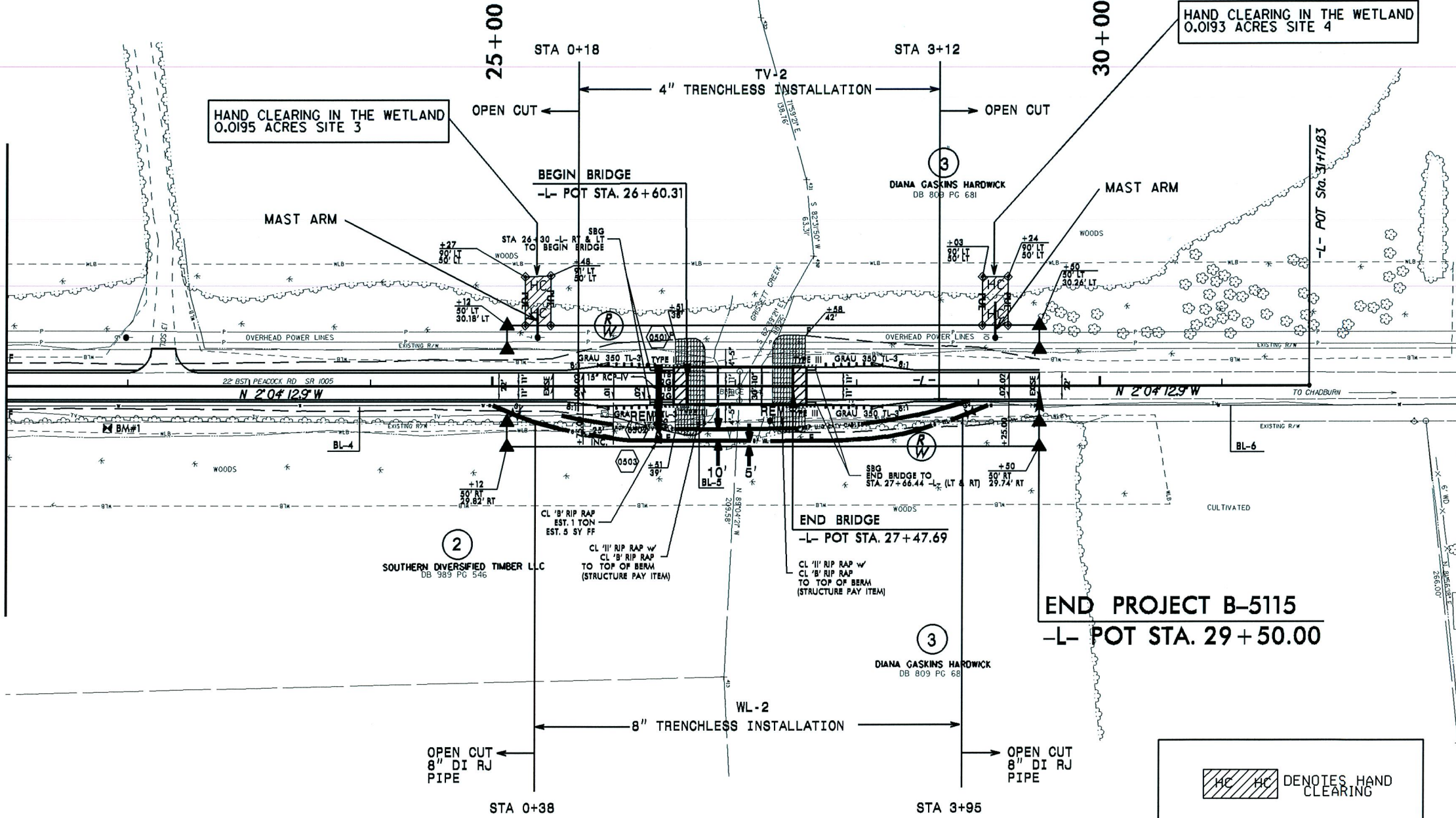
②
SOUTHERN DIVERSIFIED TIMBER LLC
DB 989 PG 546



PROJECT REFERENCE NO.	SHEET NO.
B-5115	5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PLAN SCALE:
1"=50' (FULL-SIZE)
1"=100' (HALF-SIZE)

MATCHLINE SEE SHEET "4" STA 21+00



HC HC DENOTES HAND CLEARING

5/14/99

TV-1

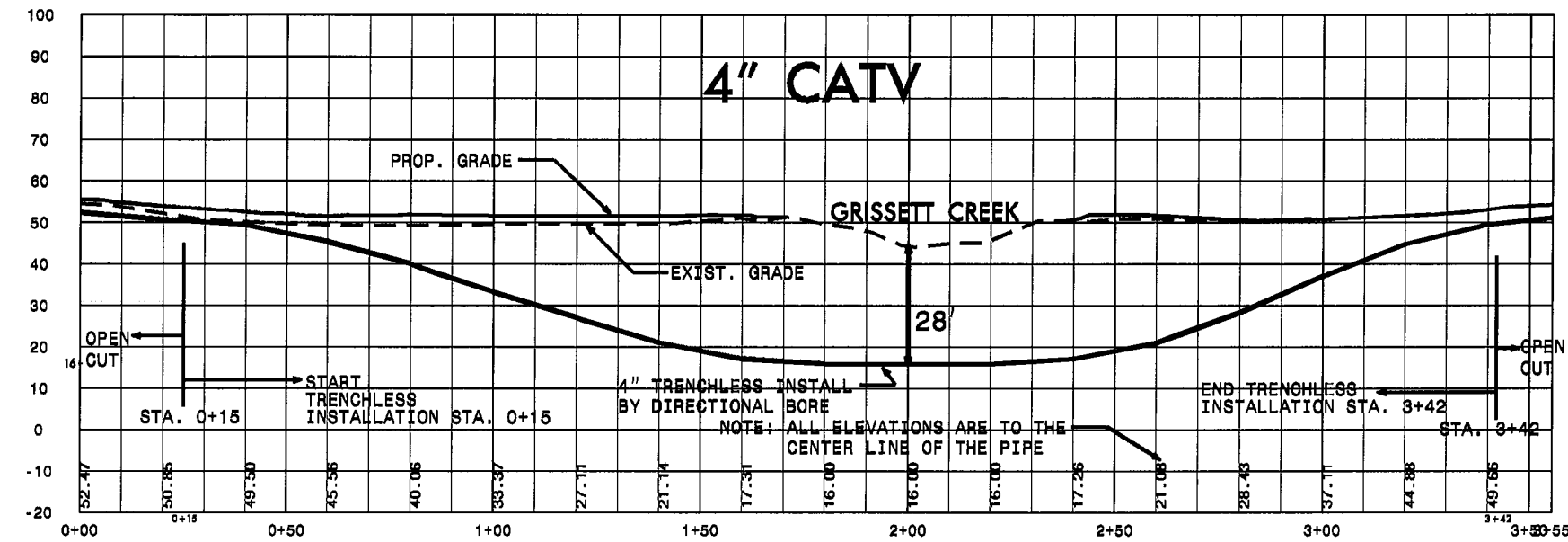
NEU PERMIT PLANS
(December 17,2012)

PROJECT REFERENCE NO.	SHEET NO.
B-5115	5A
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED: PRELIMINARY PLANS	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

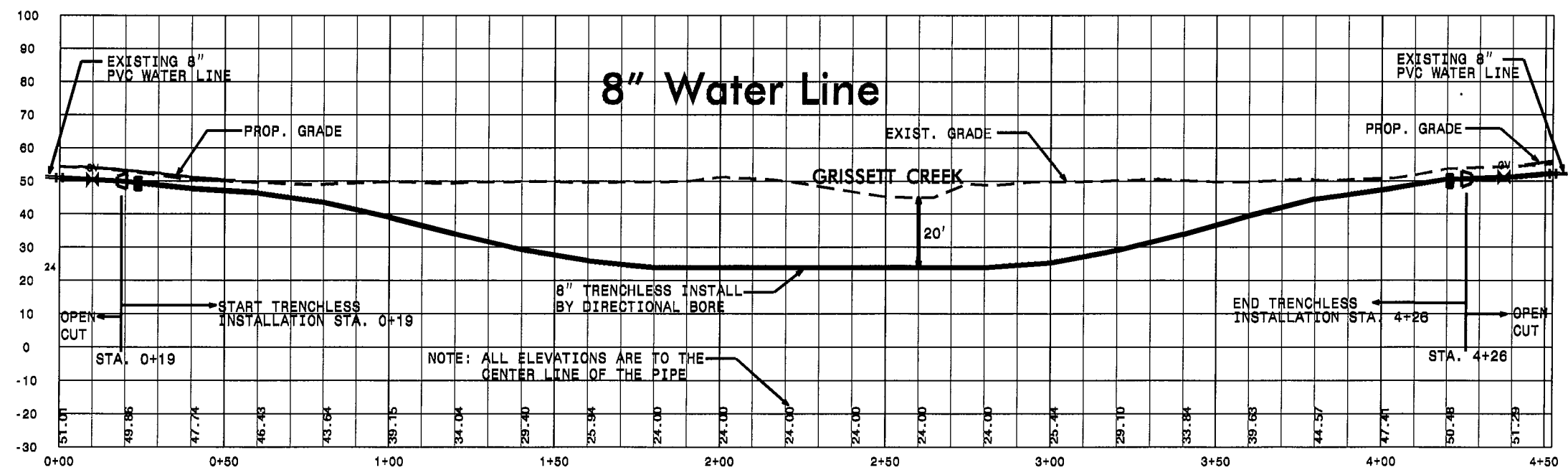
UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT BE FOR CONSTRUCTION

PLAN SCALE:
1"=20' (FULL-SIZE)
1"=40' (HALF-SIZE)



WL-1



27-FEB-2013 14:5 NEU\B5115_NEU_Ut_UCout.dgn

5/14/99

27-FEB-2013 14:5
\\ut\\utiles\\eng\\proj\\NEU\\B5115\\NEU\\Ut\\UCout.dgn
4444\\B5115\\NEU\\B5115.dgn

TV-2

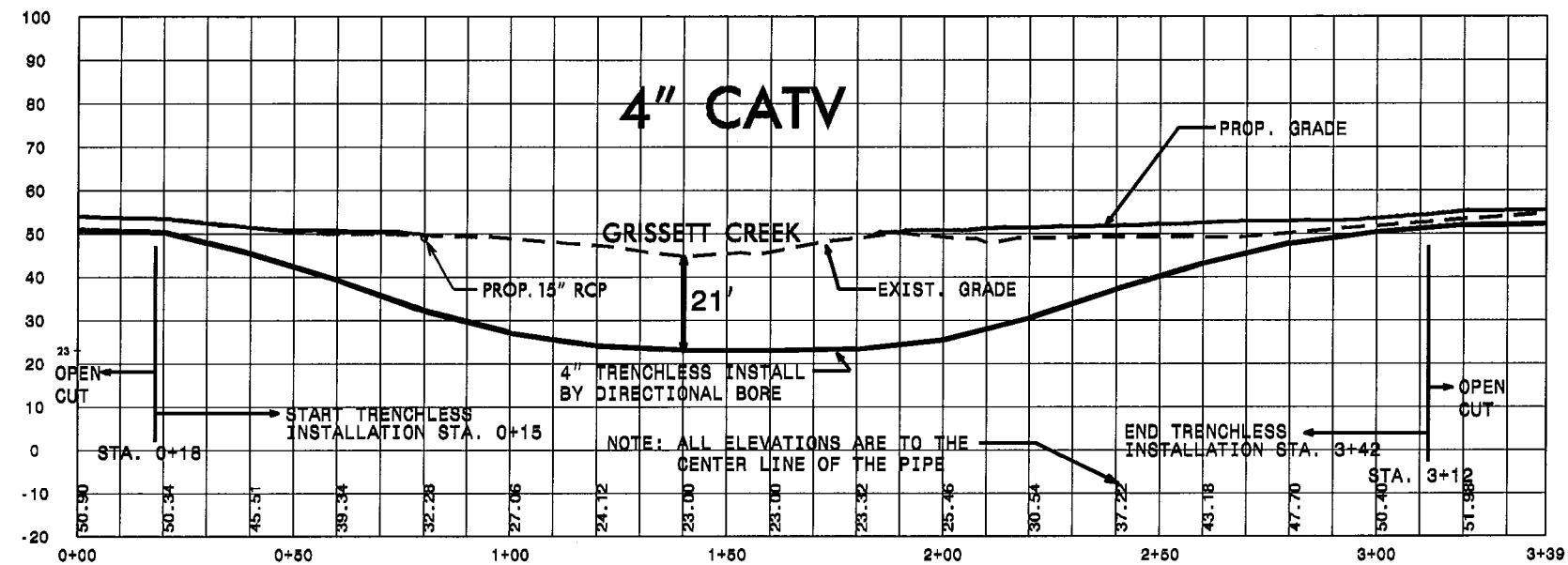
NEU PERMIT PLANS
(December 17, 2012)

PROJECT REFERENCE NO.	SHEET NO.
B-5115	5B
DESIGNED BY: NSH	
DRAWN BY: NSH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISIONS	
1. PRELIMINARY PLANS	
2. NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC.	UTILITY CONSTRUCTION PLANS ONLY
PHONE: (919) 707-6690	
FAX: (919) 250-4151	

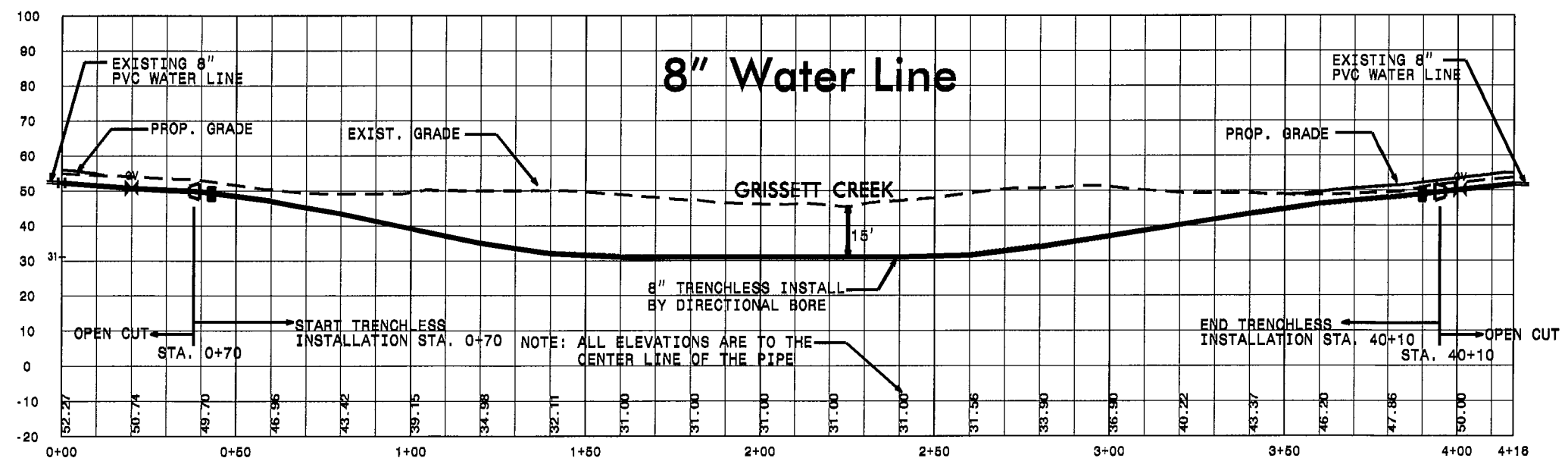
UTILITY CONSTRUCTION

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

PLAN SCALE:
1"=20' (FULL-SIZE)
1"=40' (HALF-SIZE)



WL-2



Utility Permit Drawing
Sheet 5 of 6

WETLAND PERMIT IMPACT SUMMARY

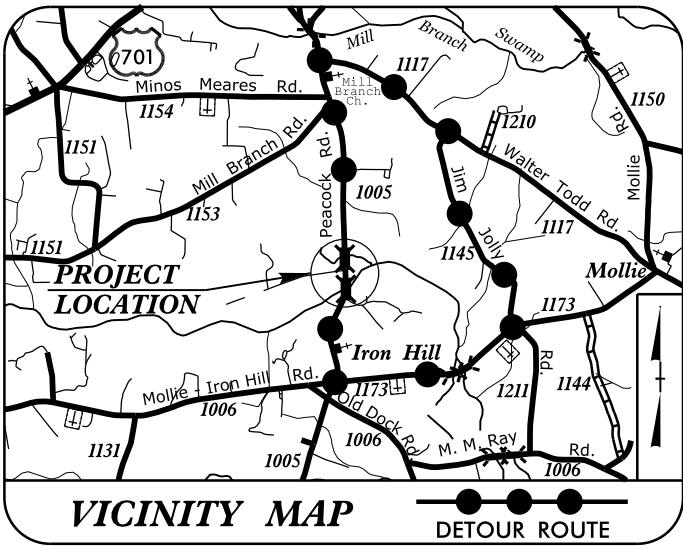
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L-14+08 TO 14+31	MAST ARM					0.02					
2	-L-18+00 TO 18+22	MAST ARM					0.04					
2A	-L-16+54 TO 16+74	Temp. Excav.			* < 0.01							
3	-L-25+27 TO 25+48	MAST ARM					0.02					
4	-L-29+03 TO 29+24	MAST ARM					0.02					
TOTALS:			0.00	0.00	< 0.01	0.00	0.10	0.00	0.00	0.00	0.00	0.00

* Temporary Excavation

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
COLUMBUS COUNTY
TIP PROJECT (B-5115)

03/08/19

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols

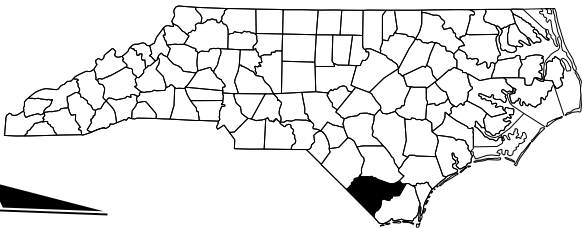


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
COLUMBUS COUNTY

LOCATION: BRIDGES NO. 94 & 95 ON SR 1005 (PEACOCK ROAD)
OVER GRISSETT CREEK

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURES

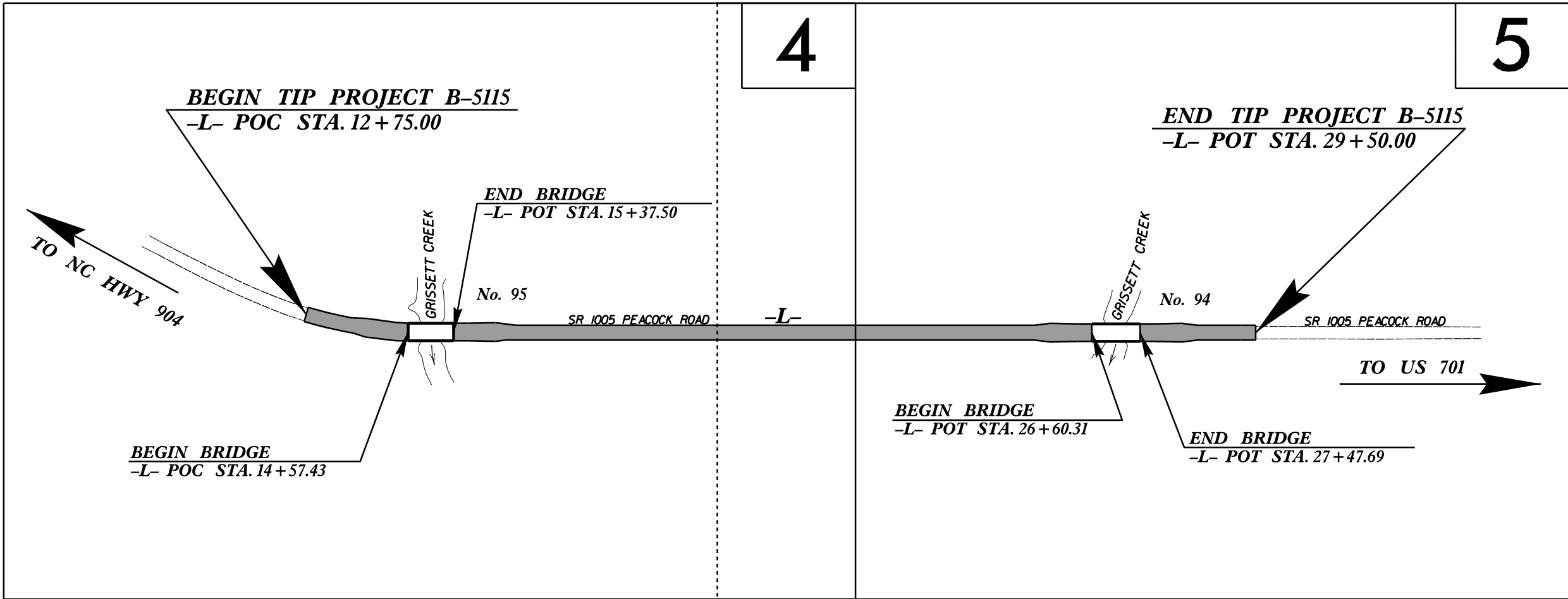
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5115	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42255.1.1	BRSTP-1005(20)	PE	
42255.2.1	BRSTP-1005(20)	RW & UTIL	



NAD 83/
NSRS 2007

TIP PROJECT: B-5115

CONTRACT: C203251

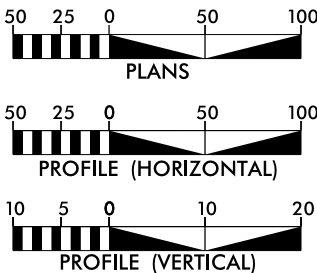


THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED
TO THE LIMITS ESTABLISHED BY METHOD II.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 2050
ADT 2033 = 3100
DHV = 12 %
D = 60 %
T = 5 % *
V = 50 MPH
*(TTST 1% + DUAL 4%)

FUNC CLASS = LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5115 = 0.285 MI
LENGTH STRUCTURE TIP PROJECT B-5115 = 0.032 MI
TOTAL LENGTH TIP PROJECT B-5115 = 0.317 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 27, 2012

LETTING DATE:
OCTOBER 15, 2013

REKHA PATEL, PE
PROJECT ENGINEER

BRIAN P. ROBINSON
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.



13-FEB-2013 12:08
R:\PROJECTS\B5115\B5115_rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

Note: Not to Scale

**S.U.E. = Subsurface Utility Engineering*

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
Property Corner	-----x-----
Property Monument	□ ECM
Parcel/Sequence Number	⑫3
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----MLB-----
Proposed Wetland Boundary	-----MLB-----
Existing Endangered Animal Boundary	-----EAB-----
Existing Endangered Plant Boundary	-----EPB-----
Known Soil Contamination: Boundary or Site	-----☠-----☠
Potential Soil Contamination: Boundary or Site	-----☠-----☠?

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□ †
Building	□
School	□ ↑
Church	□ +
Dam	-----

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----JS-----
Buffer Zone 1	-----BZ 1-----
Buffer Zone 2	-----BZ 2-----
Flow Arrow	-----<-----
Disappearing Stream	----->-----
Spring	○-----
Wetland	-----↓-----
Proposed Lateral, Tail, Head Ditch	-----<----- ← FLOW
False Sump	-----<-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	-----
Proposed Control of Access	-----
Existing Easement Line	-----E-----
Proposed Temporary Construction Easement	-----E-----
Proposed Temporary Drainage Easement	-----TDE-----
Proposed Permanent Drainage Easement	-----PDE-----
Proposed Permanent Drainage / Utility Easement	-----DUE-----
Proposed Permanent Utility Easement	-----PUE-----
Proposed Temporary Utility Easement	-----TUE-----
Proposed Aerial Utility Easement	-----AUE-----
Proposed Permanent Easement with Iron Pin and Cap Marker	-----◆-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----C-----
Proposed Slope Stakes Fill	-----F-----
Proposed Curb Ramp	-----CR-----
Curb Cut Future Ramp	-----CCFR-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	-----
Pavement Removal	-----

VEGETATION:

Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----CONC-----
Bridge Wing Wall, Head Wall and End Wall	-----CONC WW-----
MINOR:	
Head and End Wall	-----CONC HW-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----CB-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----S-----
Storm Sewer	-----S-----

UTILITIES:

POWER:	
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----P-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
Recorded U/G Power Line	-----P-----
Designated U/G Power Line (S.U.E.*)	-----P-----

TELEPHONE:

Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Booth	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
Recorded U/G Telephone Cable	-----T-----
Designated U/G Telephone Cable (S.U.E.*)	-----T-----
Recorded U/G Telephone Conduit	-----TC-----
Designated U/G Telephone Conduit (S.U.E.*)	-----TC-----
Recorded U/G Fiber Optics Cable	-----T FO-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----T FO-----

WATER:

Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
Recorded U/G Water Line	-----W-----
Designated U/G Water Line (S.U.E.*)	-----W-----
Above Ground Water Line	-----A/G Water-----

TV:

TV Satellite Dish	-----
TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
Recorded U/G TV Cable	-----TV-----
Designated U/G TV Cable (S.U.E.*)	-----TV-----
Recorded U/G Fiber Optic Cable	-----TV FO-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----TV FO-----

GAS:

Gas Valve	-----
Gas Meter	-----
Recorded U/G Gas Line	-----G-----
Designated U/G Gas Line (S.U.E.*)	-----G-----
Above Ground Gas Line	-----A/G Gas-----

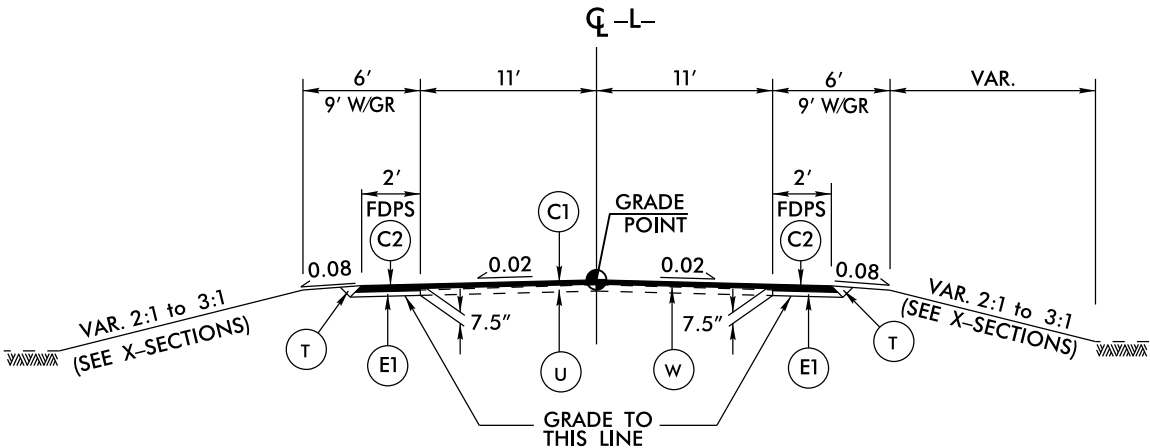
SANITARY SEWER:

Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----SS-----
Above Ground Sanitary Sewer	-----A/G Sanitary Sewer-----
Recorded SS Forced Main Line	-----FSS-----
Designated SS Forced Main Line (S.U.E.*)	-----FSS-----

MISCELLANEOUS:

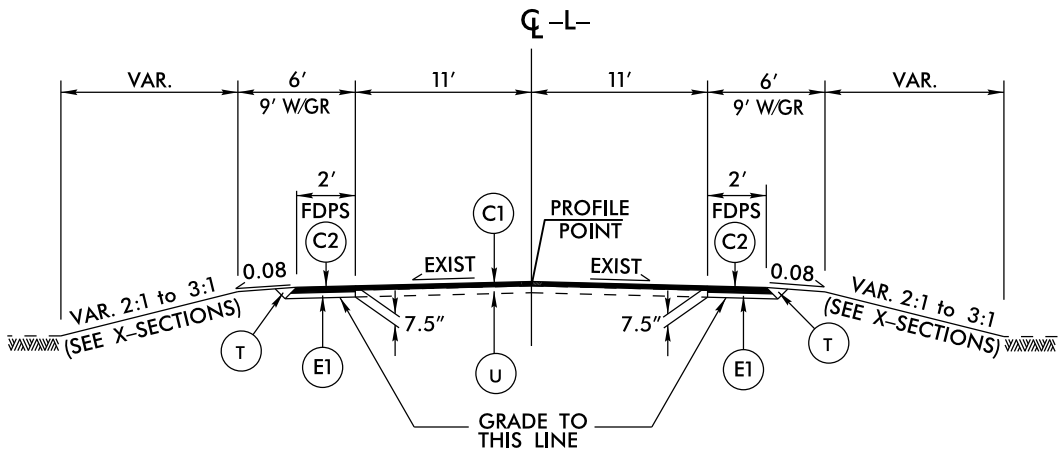
Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----UST-----
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
U/G Test Hole (S.U.E.*)	-----
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PROJECT REFERENCE NO.	SHEET NO.
B-5115	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



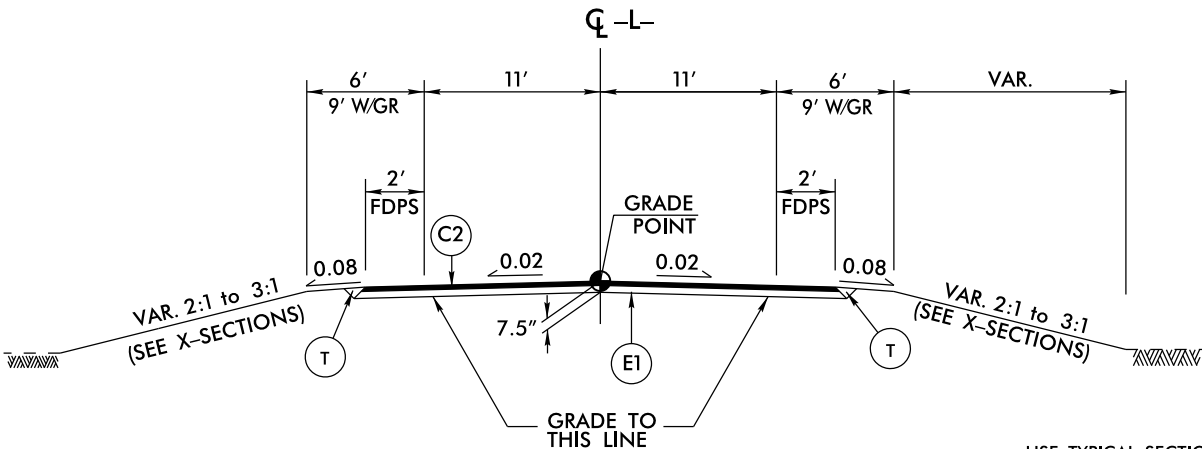
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1
-L- STA. 12+75.00 TO STA. 14+10.00
-L- STA. 15+90.00 TO STA. 17+00.00
-L- STA. 25+50.00 TO STA. 26+10.00
-L- STA. 27+95.00 TO STA. 29+50.00



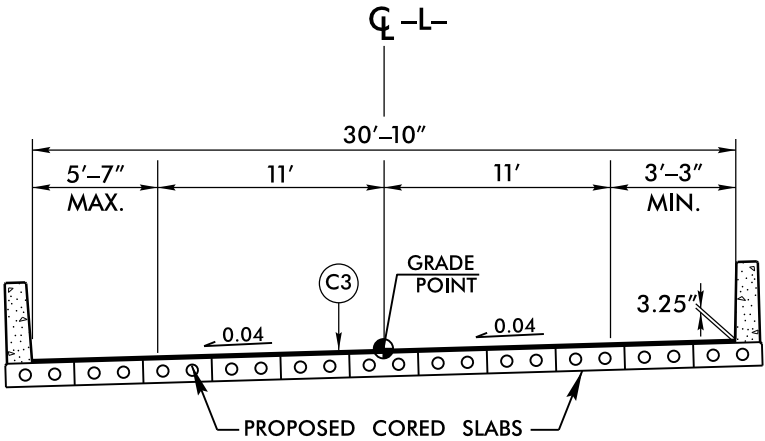
TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
-L- STA. 17+00.00 TO STA. 25+50.00



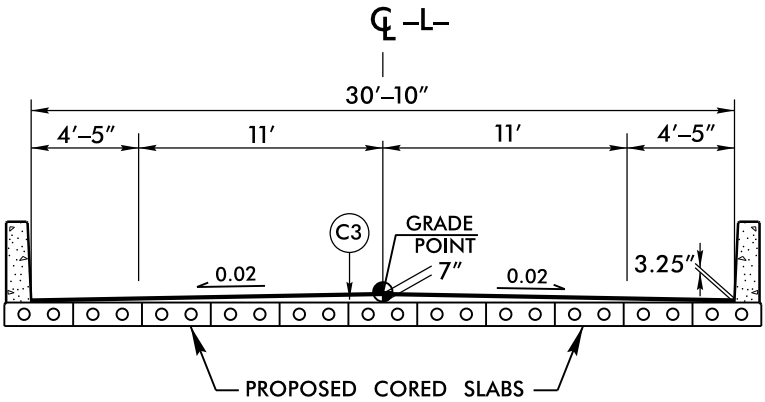
TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
-L- STA. 14+10.00 TO STA. 14+57.43 (BEGIN BRIDGE)
-L- STA. 15+37.50 (END BRIDGE) TO STA. 15+90.00
-L- STA. 26+10.00 TO STA. 26+60.31 (BEGIN BRIDGE)
-L- STA. 27+47.69 (END BRIDGE) TO STA. 27+95.00



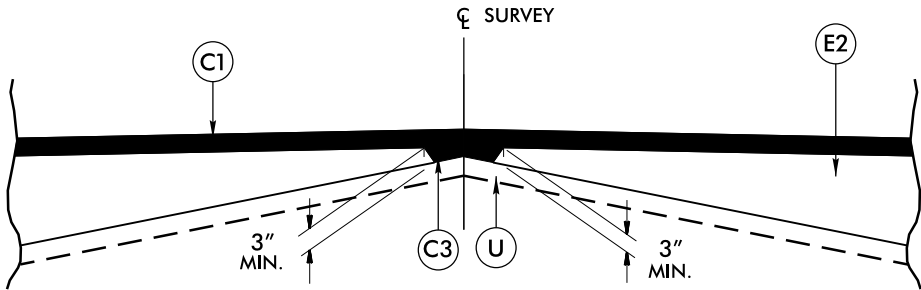
TYPICAL SECTION No. 4
(SEE STRUCTURE PLANS)

USE TYPICAL ON STRUCTURE
-L- STA. 14+57.43 (BEGIN BRIDGE) TO
-L- STA. 15+37.50 (END BRIDGE)



TYPICAL SECTION No. 5
(SEE STRUCTURE PLANS)

USE TYPICAL ON STRUCTURE
-L- STA. 26+60.31 (BEGIN BRIDGE) TO
-L- STA. 27+47.69 (END BRIDGE)



DETAIL SHOWING METHOD OF WEDGING

FINAL PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.0" IN DEPTH OR GREATER THAN 1.5" IN DEPTH.
E1	PROP. APPROX. 4.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

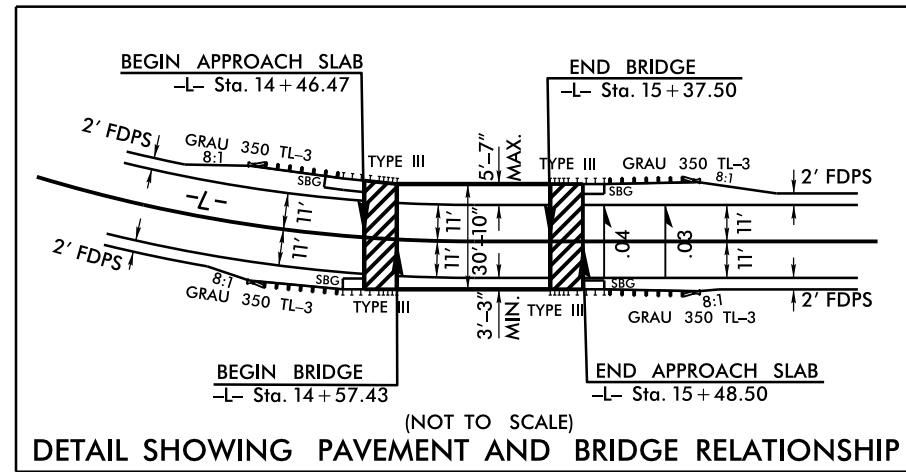
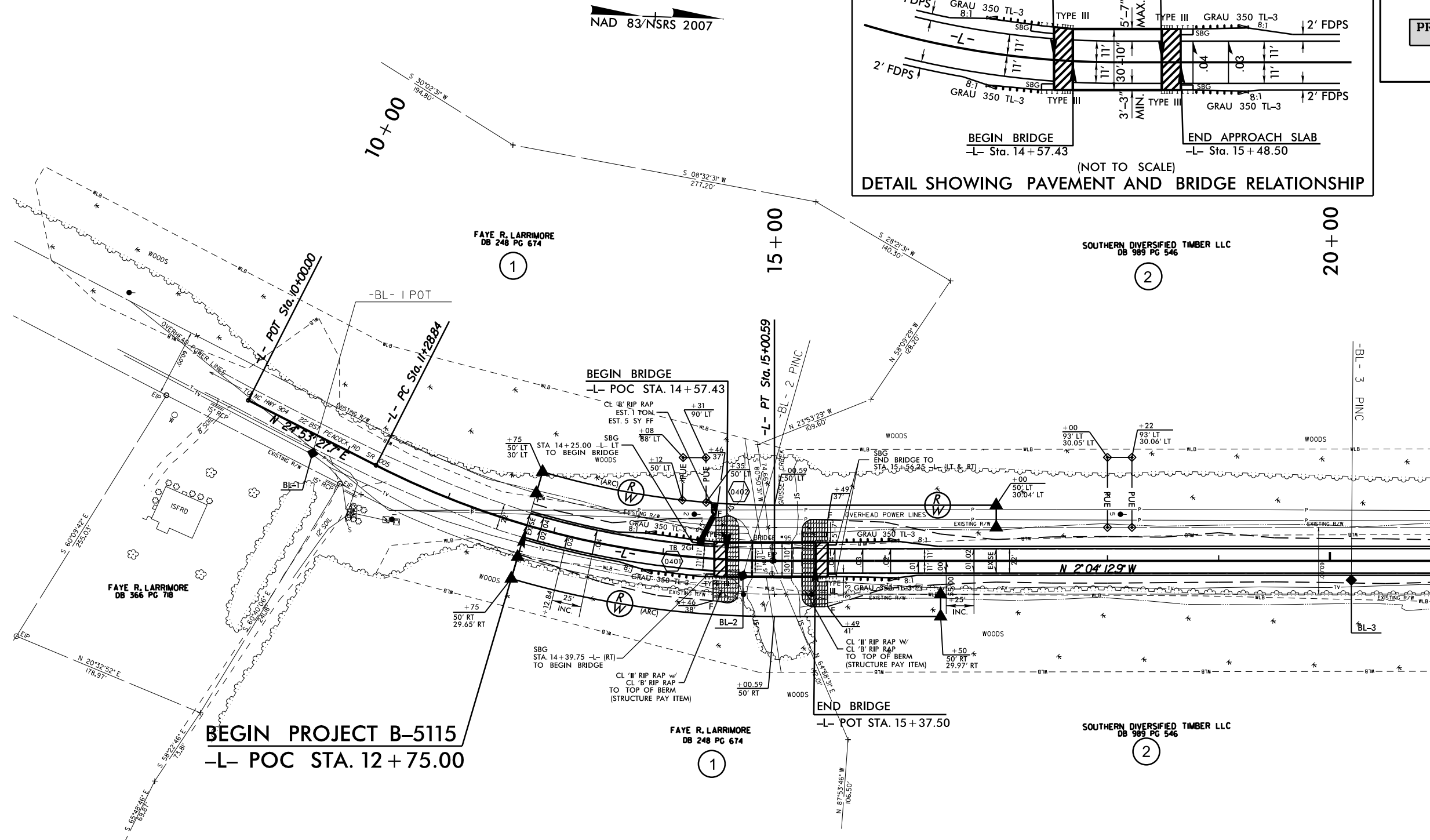
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

8/17/99

REVISIONS

01/15/13 R/W REVISION (MID): REVISED PUE ON PARCEL 1 AND 2.
REVISED PROPOSED R/W FROM PARCEL 2 FROM -L- STA 16+50.00 (RT) TO -L- STA 25+12.00 (RT).
REVISED PROPOSED R/W FROM PARCEL 2 FROM -L- STA 17+00.00 (LT) TO -L- STA 25+12.00 (LT).

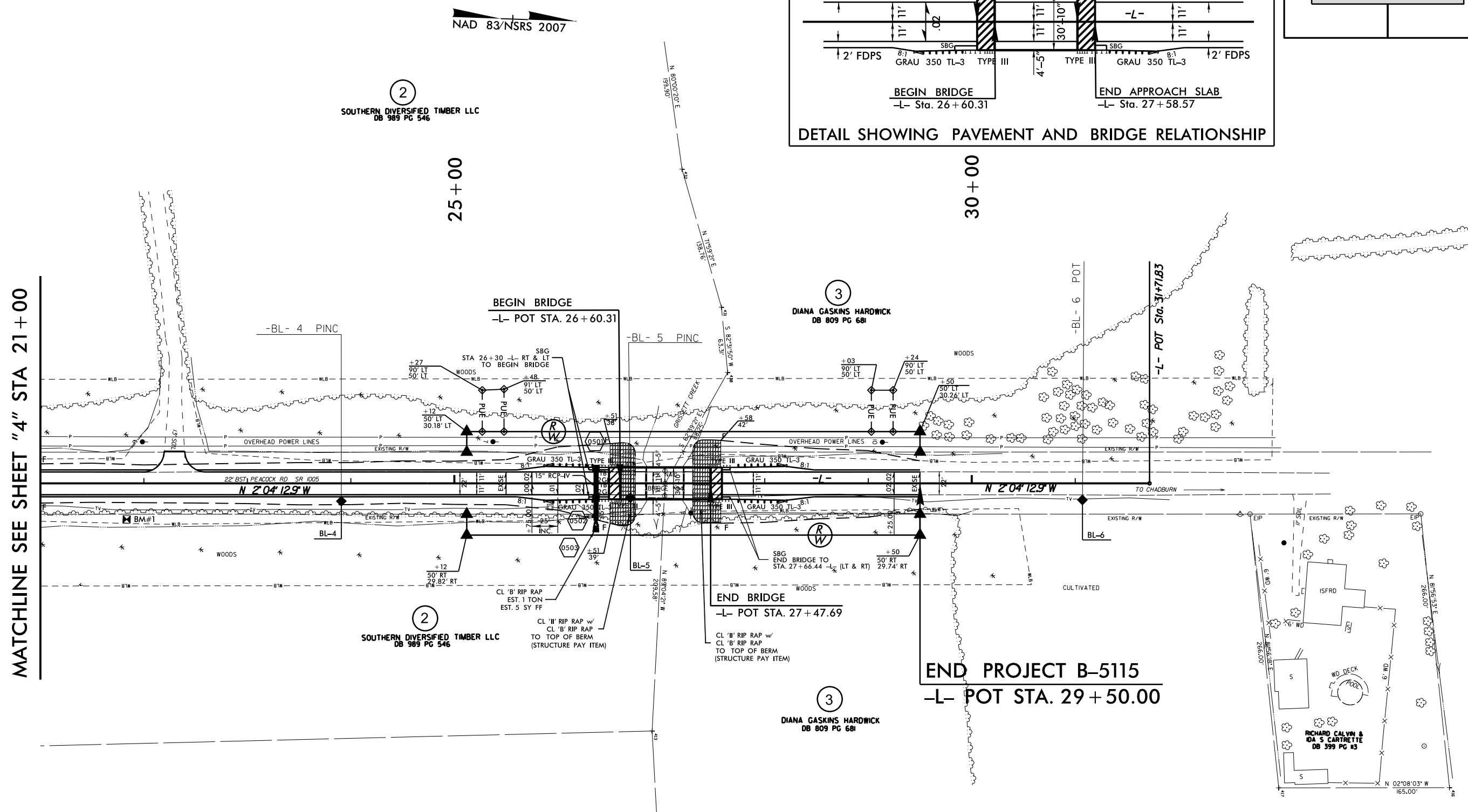
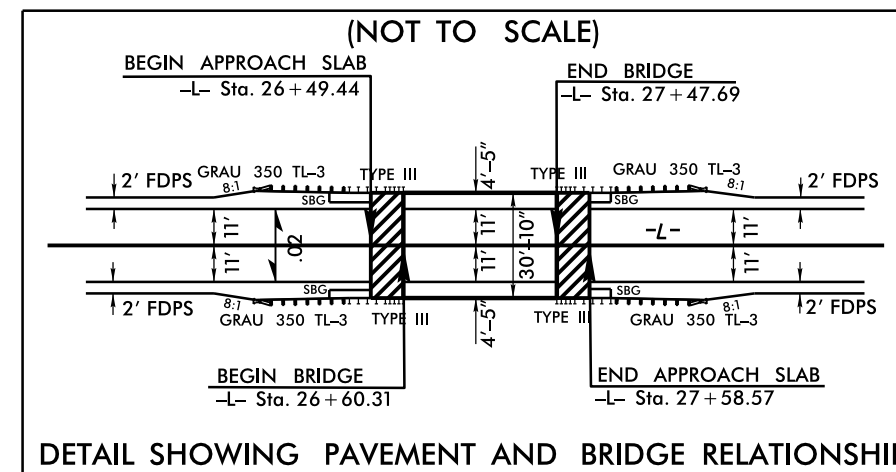
13-FEB-2013 12:03
R:\Roadway\B-5115\B-5115_rdy_psh_04.dgn
\$\$\$\$\$ISERRAME\$\$\$\$\$



PROJECT REFERENCE NO.		SHEET NO.
B-5115		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

MATCHLINE SEE SHEET "5" STA 21+00

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE



NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

