



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

July 16, 2014

ANTHONY J. TATA
SECRETARY

U. S. Army Corps of Engineers
Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 13 & 33** for the proposed replacement of Bridge No. 108 over Tuckasegee River on SR 1002 (Old Cullowhee Road) in Jackson County, Federal Aid Project No. BRZ-1002(13); Division 14; WBS Element 33507.1.1, TIP No. B-4159.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace the existing 4-span, 280 foot long bridge with a 3-span, 300 foot long bridge. NCDOT has minimized impacts on this replacement to temporary impacts resulting from work pads necessary to remove the existing structure and its bents, as well as the installation of the new bridge. To accommodate concerns raised by citizens, traffic will be maintained on-site using phased construction. The project will be constructed using a series of work pads totaling 0.19 acre. This amount accounts for overlapping work pads between different phases of staged construction.

Due to the likelihood of the difficulty of removing the work pads around the bank areas, the work pad rock will be retained at the bank as bank stabilization. This will result in 185 linear feet of bank stabilization.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater management plan, permit drawings, design plans, Rapanos form, and USFWS informal concurrence response for the above-referenced project. A Categorical Exclusion (CE) was completed and distributed in August 2013. Additional copies are available upon request.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the United States Army Corps of Engineers (USACE). By copy of this letter and attachments, NCDOT hereby requests NCWRC's review. NCDOT requests that

NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

This project calls for a letting date of December 16, 2014 and a review date of October 28, 2014. However, the date could be advanced if funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please e-mail Michael Turchy at maturchy@ncdot.gov.

Sincerely,



for Richard W. Hancock, P.E., 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:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 13 33 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input type="checkbox"/> 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: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridge No. 108 over Tuckasegee River on SR 1002.
2b. County:	Jackson
2c. Nearest municipality / town:	Cullowhee
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4159

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) 707-6157
3g. Fax no.:	(919) 212-5785
3h. Email address:	maturchy@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> 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: 35.315776 (DD.DDDDDD) Longitude: - 83.177870 (-DD.DDDDDD)
1c. Property size:	0.5 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Tuckasegee River
2b. Water Quality Classification of nearest receiving water:	C Tr
2c. River basin:	Little Tennessee
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: Residential and commercial land use.	
3b. List the total estimated acreage of all existing wetlands on the property: Zero.	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 500	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The North Carolina Department of Transportation (NCDOT) proposes to replace the existing 4-span, 280 foot long bridge with a 3-span, 300 foot long bridge. NCDOT has minimized impacts on this replacement to temporary impacts resulting from work pads necessary to remove the existing structure and its bents, as well as the installation of the new bridge. To accommodate concerns raised by citizens, traffic will be maintained on-site using phased construction. The project will be constructed using a series of work pads totaling 0.19 acre. This amount accounts for overlapping work pads between different phases of staged construction. Due to the likelihood of the difficulty of removing the work pads around the bank areas, the work pad rock will be retained at the bank as bank stabilization. This will result in 185 linear feet of bank stabilization.	
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: Requesting the JD with this permit.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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):						
<input type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> 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 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts						
2h. Comments:						
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 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Work Bridge	Tuckasegee River	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	125	0.19 acre
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Bank Stabilization	Turkasegee River	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	125	185
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						185' Perm 0.19 ac Temp
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 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				X Permanent X Temporary

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?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?		<input type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman			
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 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
<p>1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.</p> <p>Due to concerns raised by the community, traffic will be maintained on-site using phased construction.</p> <p>Temporary workpads will be phased so that no more than 50% of the river channel will be blocked at any time.</p> <p>Work pads will be further stabilized by "jersey" barriers on their upstream sides to prevent them from washing away during high flow events.</p> <p>NCDOT will establish a contact network with Duke Energy to ensure that impending flows are anticipated and that any equipment on work pads be moved to high ground.</p> <p>NCDOT will participate in a preconstruction survey during the 2014 field season in order to validate the assumption that the Appalachian elktoe is not within the area that may be affected by indirect effects.</p>		
<p>1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.</p> <p>Design Standards for Sensitive Waters will be used for this project. Deck drains will not discharge into open water. The Department will observe an in-stream moratorium for trout from October 15-April 15.</p> <p>Demolition of existing the existing structure will be conducted in a manner that minimizes dropping material into the river.</p>		
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: The NCDOT does not propose mitigation for stream bank stabilization activities. Stabilizing the bank of a stream does not require fill in the stream bed and, therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation. Furthermore, the proposed bank stabilization activities are necessary to prevent erosion and sedimentation, i.e. preventing bank destabilization and minimizing impacts to the environment.	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> 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.

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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> 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):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input checked="" type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: CE Approved & Distributed August 1, 2013.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh <input checked="" type="checkbox"/> Asheville	
<p>5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?</p> <p>NHP Element Occurance Search, USFWS Website, and NCDOT onsite surveys.</p> <p>Concurrence from the FWS is included with this permit application</p> <p>A US Fish and Wildlife Service proposal for listing the Northern Long-eared Bat (<i>Myotis septentrionalis</i>) as an Endangered species was published in the Federal Register in October 2013. The listing will become effective on or before April, 2015. Furthermore, this species is included in USFWS's current list of protected species for Jackson County. NCDOT is working closely with the USFWS to understand how this proposed listing may impact NCDOT projects. NCDOT will continue to coordinate appropriately with USFWS to determine if this project will incur potential effects to the Northern long-eared bat, and how to address these potential effects, if necessary..</p>		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat?		
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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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		
 Mr. Richard Hancock, P.E. Applicant/Agent's Printed Name	 <hr/> Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	7-16-14 Date



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR LINEAR ROADWAY PROJECTS



(Version 1.2; Released July 2012)

Project/TIP No.: B-4159 **County(ies):** Jackson **Page** 1 **of** 1

General Project Information

Project No.:	B-4159	Project Type:	Existing location	Date:	4/14/2014
NCDOT Contact:	Stephen Morgan, PE	Contractor / Designer:	Carlas Sharpless, PE		
Address:	1590 Mail Service Center Raleigh, NC 27699-1590	Address:	1590 Mail Service Center Raleigh, NC 27699-1590		
Phone:	919-707-6739	Phone:	919-707-6750		
Email:	smorgan@ncdot.gov	Email:	csharpless@ncdot.gov		
City/Town:	Cullowhee	County(ies):	Jackson		
River Basin(s):	Little Tennessee	CAMA County?	No		
Primary Receiving Water:	Tuckaseegee River	NCDWQ Stream Index No.:	2-79-(30)		
NCDWQ Surface Water Classification for Primary Receiving Water	Primary:	Class B			
	Supplemental:	Trout Waters (Tr)			
Other Stream Classification:					
303(d) Impairments:					
Buffer Rules in Effect					

Project Description

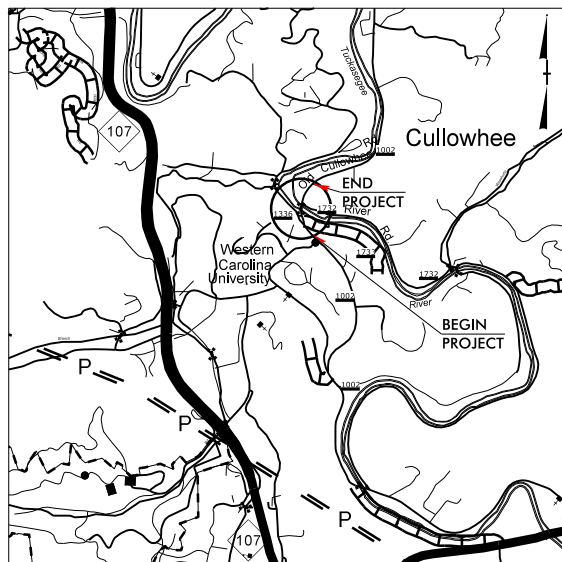
Project Length (lin. Miles or feet):	.0237 miles	Surrounding Land Use:	Light urban business		
	Proposed Project		Existing Site		
Project Built-Up Area (ac.)	2.38 ac.		1.63 ac.		
Typical Cross Section Description:	2-12 foot travel lanes with variable width center turn lane, 4 foot bike lanes, curb and gutter, sidewalks, and shoulder sections with variable side slopes to tie-in.				
Average Daily Traffic (veh/hr/day):	Design/Future: 9,800(2032)	Existing:	6,300 (2013)		

General Project Narrative: The project involves replacing Bridge 108 on SR 1002 (Old Cullowhee Rd.) over the Tuckaseegee River in Jackson County. This project also involves traffic improvements which includes the realignments of SR 1336 (Montieth Gap Road) and SR 1732 (Edgewater Road). Portions of the new alignments are located on new location and are meant to improve intersection conditions with SR 1002. The existing structure is a 3-span 280' bridge, and will be replaced with a 300' 3-span structure in the existing location. The existing roadway consists of 20' of BST with shoulder section. The proposed roadway is a 2-12 foot travel lane facility with a variable width center turn lane, 4-foot bike lanes, sidewalks, curb and gutter section, and shoulder section. No Deck drains will be present over open waters, and deck drain dissipator pads will be used to prevent erosion.

References

09/208/99

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



VICINITY MAP SHOWING LOCATION OF PROJECT B-4159

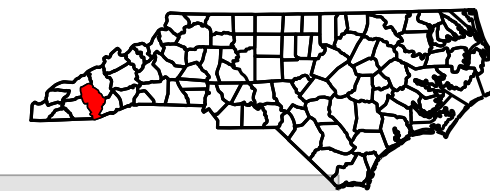
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

JACKSON COUNTY

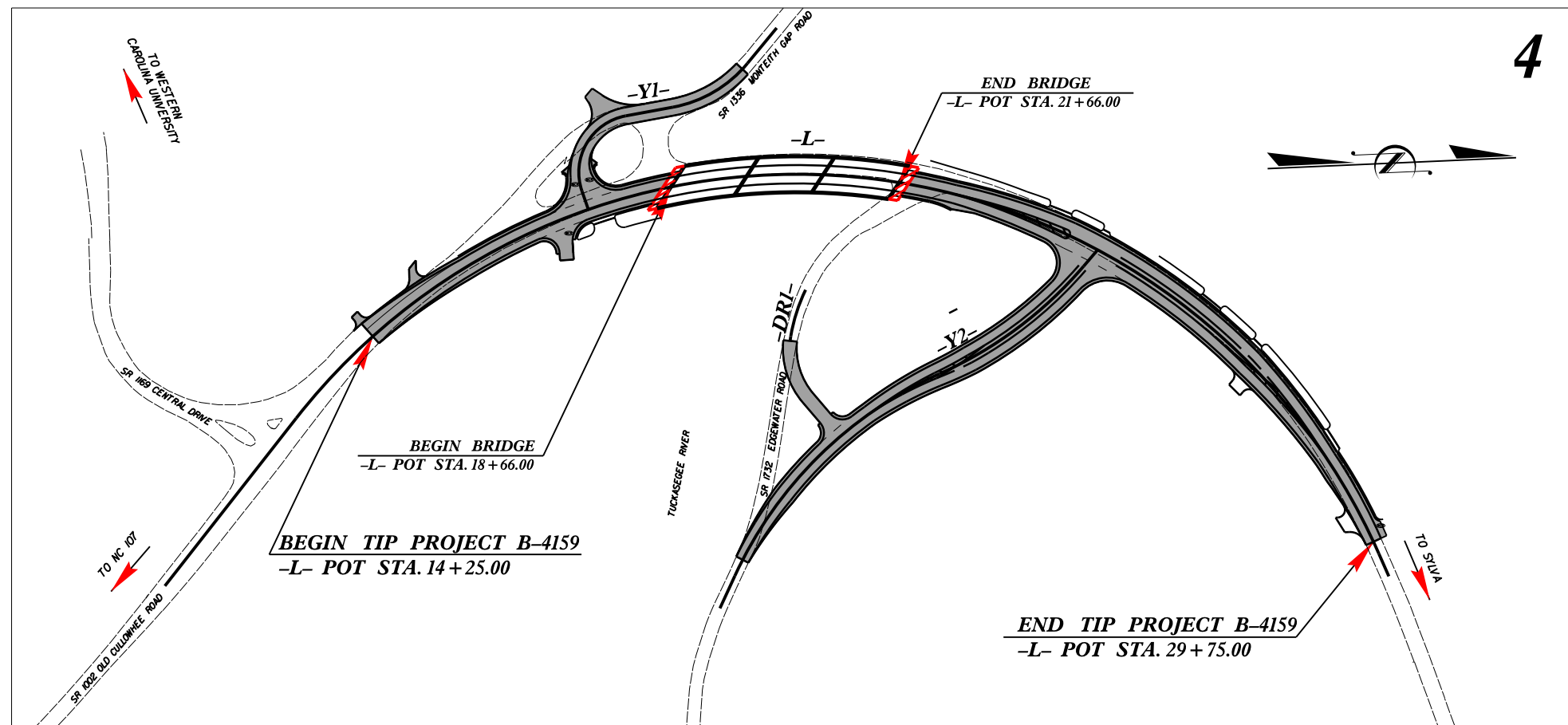
**LOCATION: BRIDGE NO. 108 OVER THE TUCKASEGEE RIVER
ON SR 1002 (OLD CULLOWHEE RD.)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE
AND STRUCTURE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4159	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33507.1.1	BRZ-1002(13)	PE	
33507.2.1	BRZ-1002(13)	ROW & UTIL	



WETLAND AND SURFACE WATER IMPACTS PERMIT



THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER GUIDELINES FOR BRIDGE PROJECTS

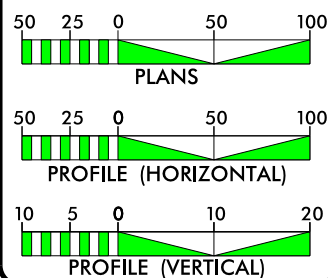
THERE IS NO CONTROL OF ACCESS ON THIS PROJECT
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

TIP PROJECT: B-4159

CONTRACT: C203498

GRAPHIC SCALES



DESIGN DATA

ADT 2012 = 9,800
ADT 2032 = 15,400
DHV = 10 %
D = 60 %
T = 5 % *
V = 40 MPH
* TTST 2% DUAL 3%
FUNC CLASS =
RURAL COLLECTOR

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4159 = 0.237 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4159 = 0.057 MILES
TOTAL LENGTH OF TIP PROJECT B-4159 = 0.294 MILES

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

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 22, 2013

LETTING DATE:
DECEMBER 16, 2014

TONY HOUSER, P.E.
PROJECT ENGINEER

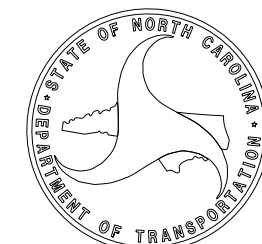
LEE ANN MOORE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

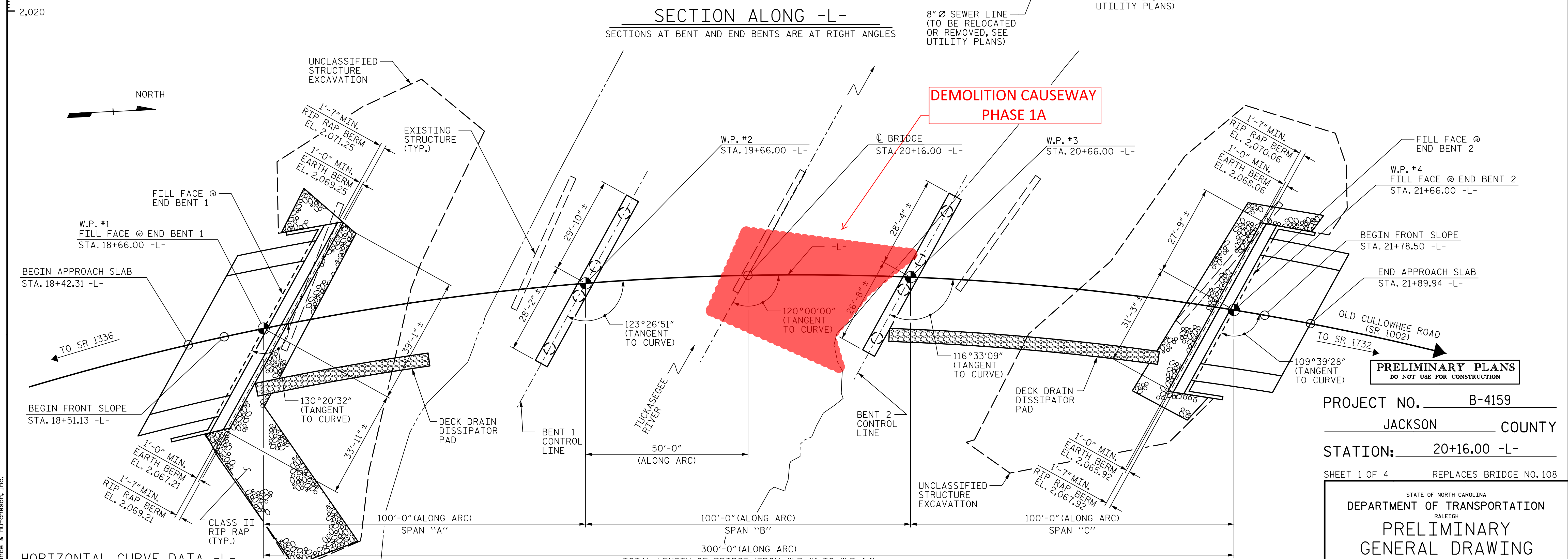
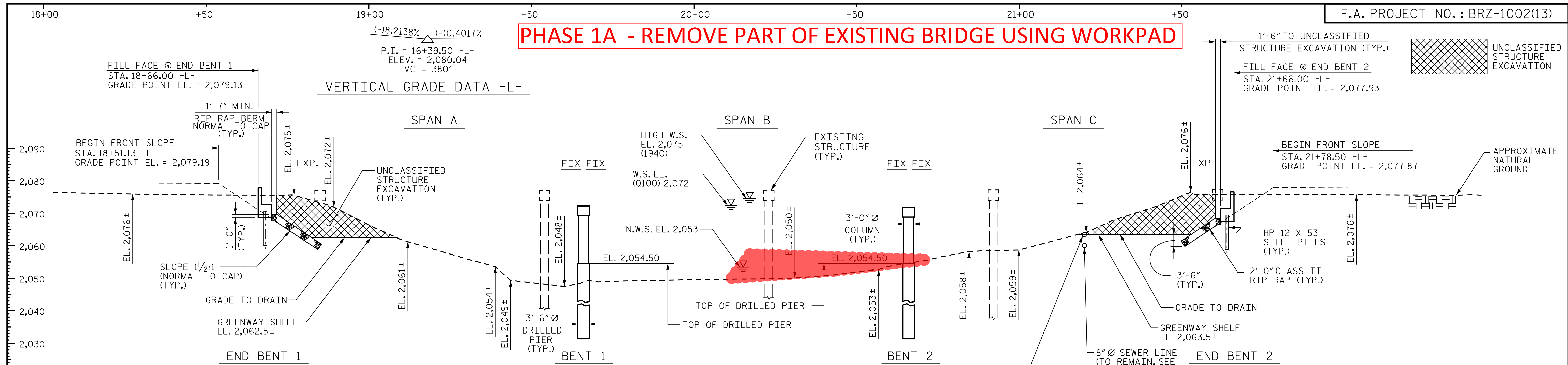
ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USENAME\$\$\$\$\$

PHASE 1A - REMOVE PART OF EXISTING BRIDGE USING WORKPAD



PERMIT DRAWING SHEET 2 OF 11

DRAWN BY : D. H. CARTER DATE : NOV 2013
 CHECKED BY : K. M. MOBLEY DATE : NOV 2013
 DESIGN ENGINEER OF RECORD : T. E. TALLMAN DATE : NOV 2013

PLAN
 PILES NOT SHOWN FOR CLARITY
 ALL BENTS ARE PARALLEL



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
PRELIMINARY GENERAL DRAWING
 FOR BRIDGE OVER
 TUCKASEGEE RIVER ON SR 1002
 BETWEEN SR 1336 AND SR 1732

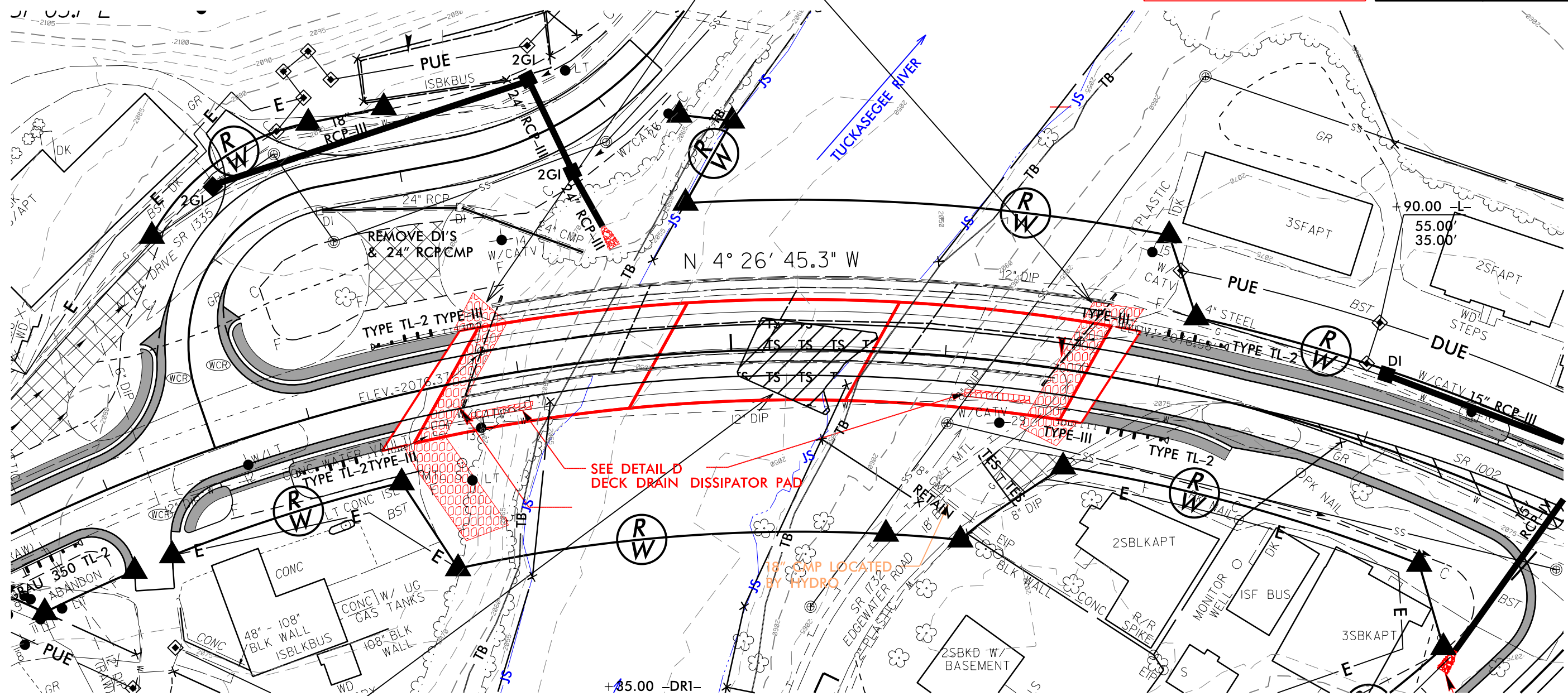
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-1
 TOTAL SHEETS 4

PROJECT REFERENCE NO. B-4159	SHEET NO.
Permit Drawing Blowup	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Excavation shown in profile view is not shown in plan view for clarity.

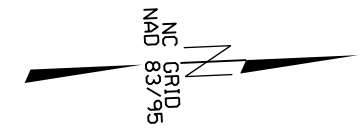
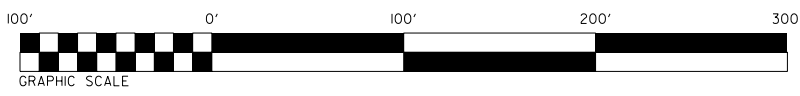
PERMIT DRAWING
SHEET 3 OF 11



**TEMP. WORK PAD
PHASE 1A**

PLAN VIEW

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

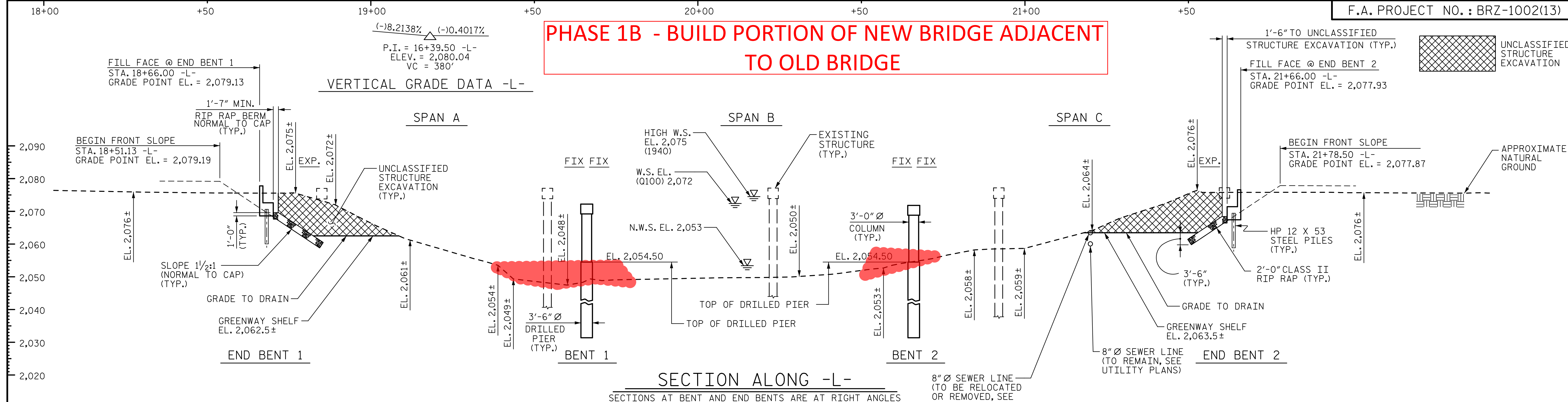


Scale: 1" = 50'

5/14/99

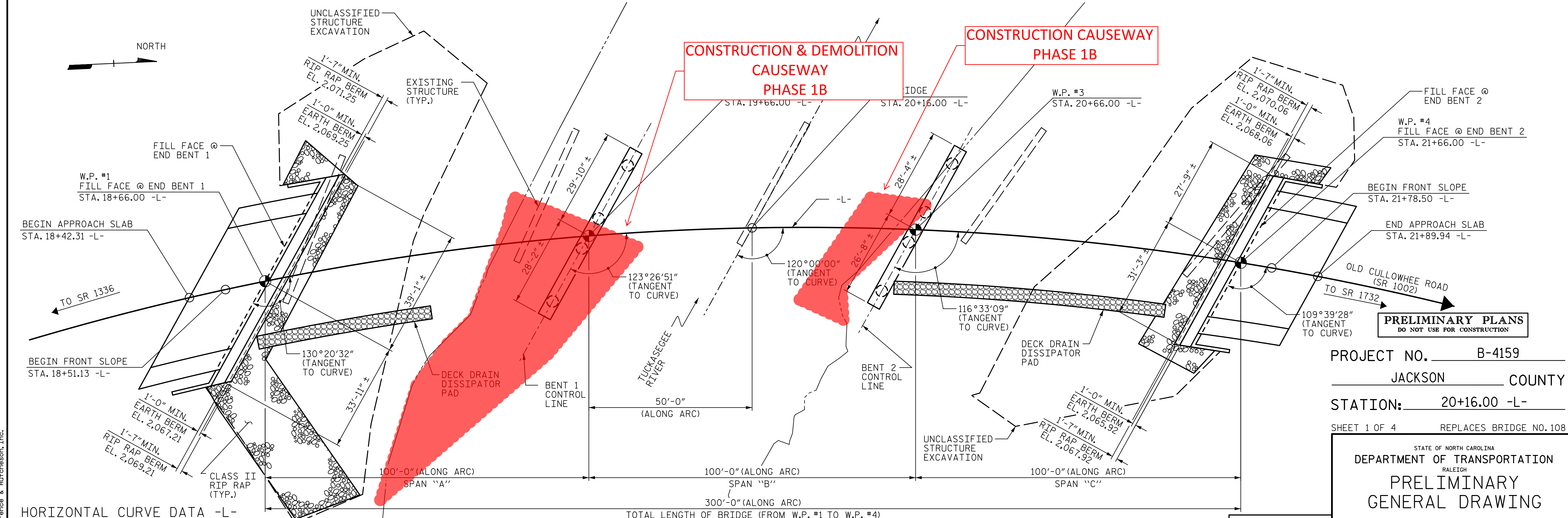
PHASE 1B - BUILD PORTION OF NEW BRIDGE ADJACENT TO OLD BRIDGE

VERTICAL GRADE DATA -L-



SECTION ALONG -L-

SECTIONS AT BENT AND END BENTS ARE AT RIGHT ANGLES



HORIZONTAL CURVE DATA -L-

P.I. = 26+65.65 -L-
 Δ = 118°08'55.9" (RT)
 D = 6°53'41.3"
 L = 1,713.59'
 T = 1,387.09'
 R = 831.00'

CONSTRUCTION & DEMOLITION CAUSEWAY PHASE 1B

CONSTRUCTION CAUSEWAY PHASE 1B

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

PROJECT NO. B-4159
 JACKSON COUNTY
 STATION: 20+16.00 -L-
 SHEET 1 OF 4 REPLACES BRIDGE NO. 108

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
PRELIMINARY GENERAL DRAWING
 FOR BRIDGE OVER
 TUCKASEGEE RIVER ON SR 1002
 BETWEEN SR 1336 AND SR 1732

DRAWN BY : D. H. CARTER DATE : NOV 2013
 CHECKED BY : K. M. MOBLEY DATE : NOV 2013
 DESIGN ENGINEER OF RECORD : T. E. TALLMAN DATE : NOV 2013

PLAN
 PILES NOT SHOWN FOR CLARITY
 ALL BENTS ARE PARALLEL

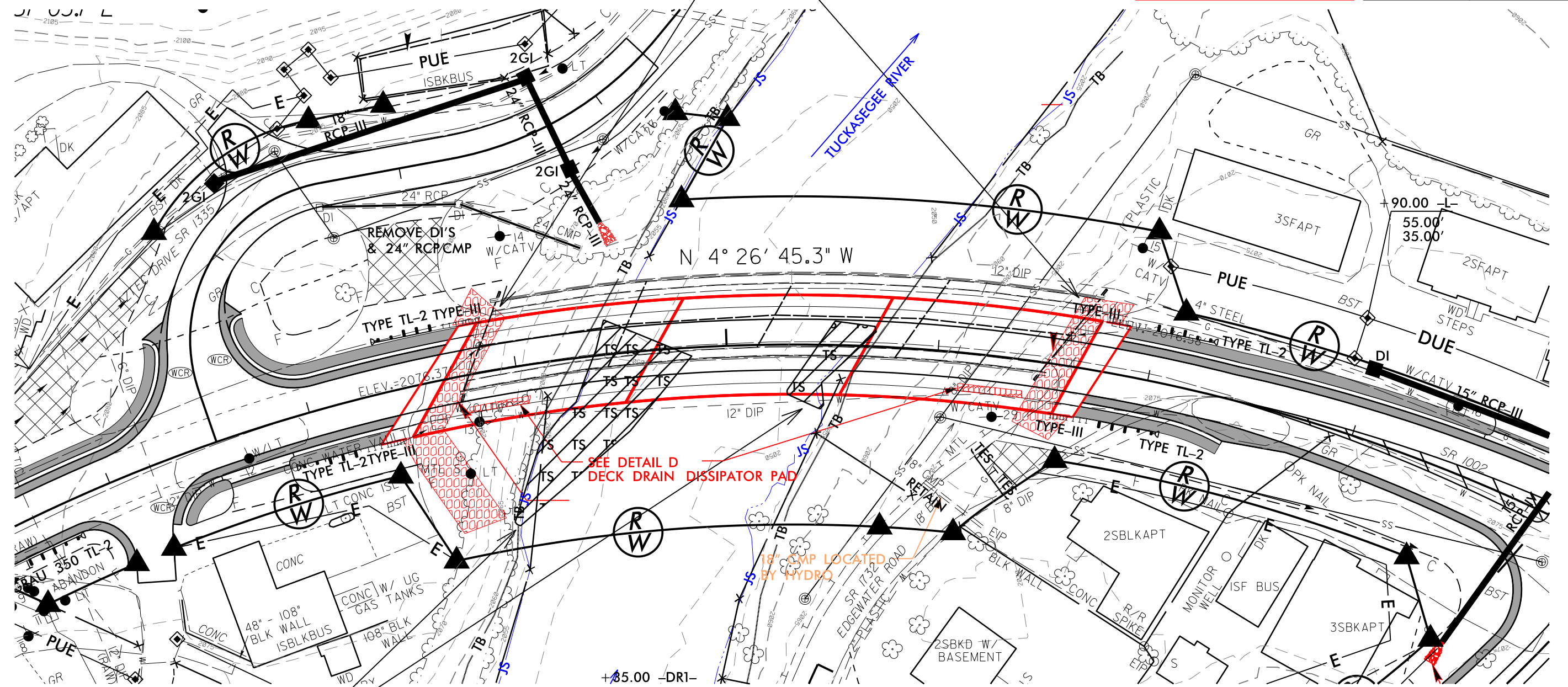


REVISIONS						SHEET NO. S-1
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 4
2			4			

PROJECT REFERENCE NO. B-4159		SHEET NO.	
Permit Drawing Blowup			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS		DO NOT USE FOR CONSTRUCTION	

Excavation shown in profile view is not shown in plan view for clarity.

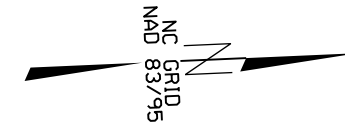
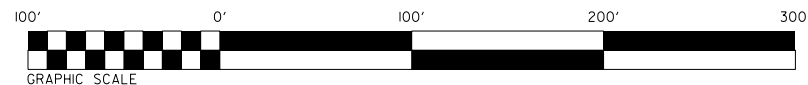
PERMIT DRAWING
SHEET 5 OF 11



**TEMP. WORK PAD
PHASE 1B**

PLAN VIEW

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER



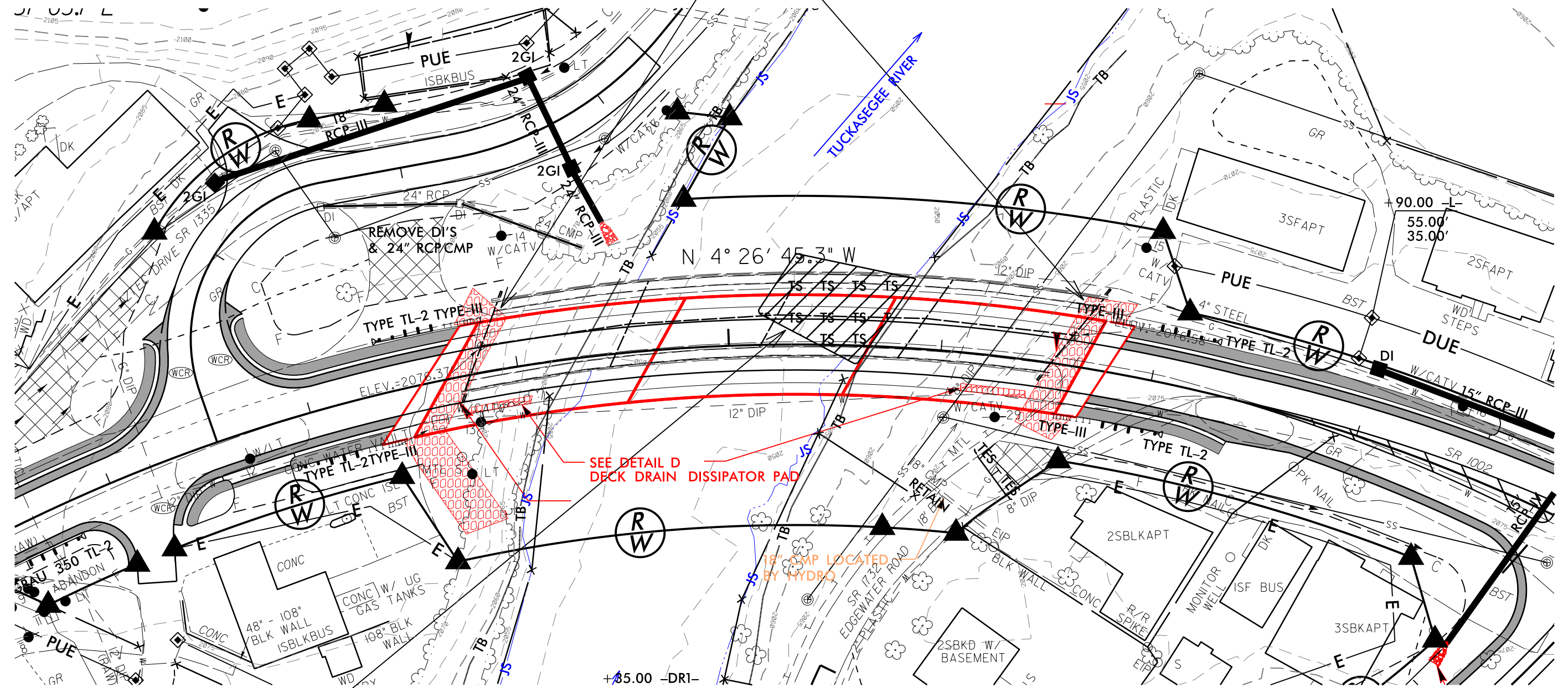
Scale: 1" = 50'

5/14/99

PROJECT REFERENCE NO. B-4159	SHEET NO.
Permit Drawing Blowup	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

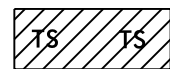
Excavation shown in profile view is not shown in plan view for clarity.

PERMIT DRAWING
SHEET 7 OF 11

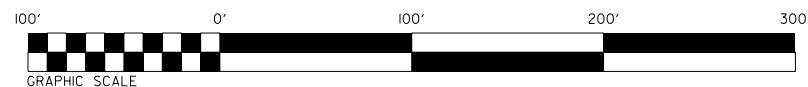


**TEMP. WORK PAD
PHASE 2A**

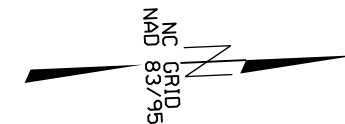
PLAN VIEW



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

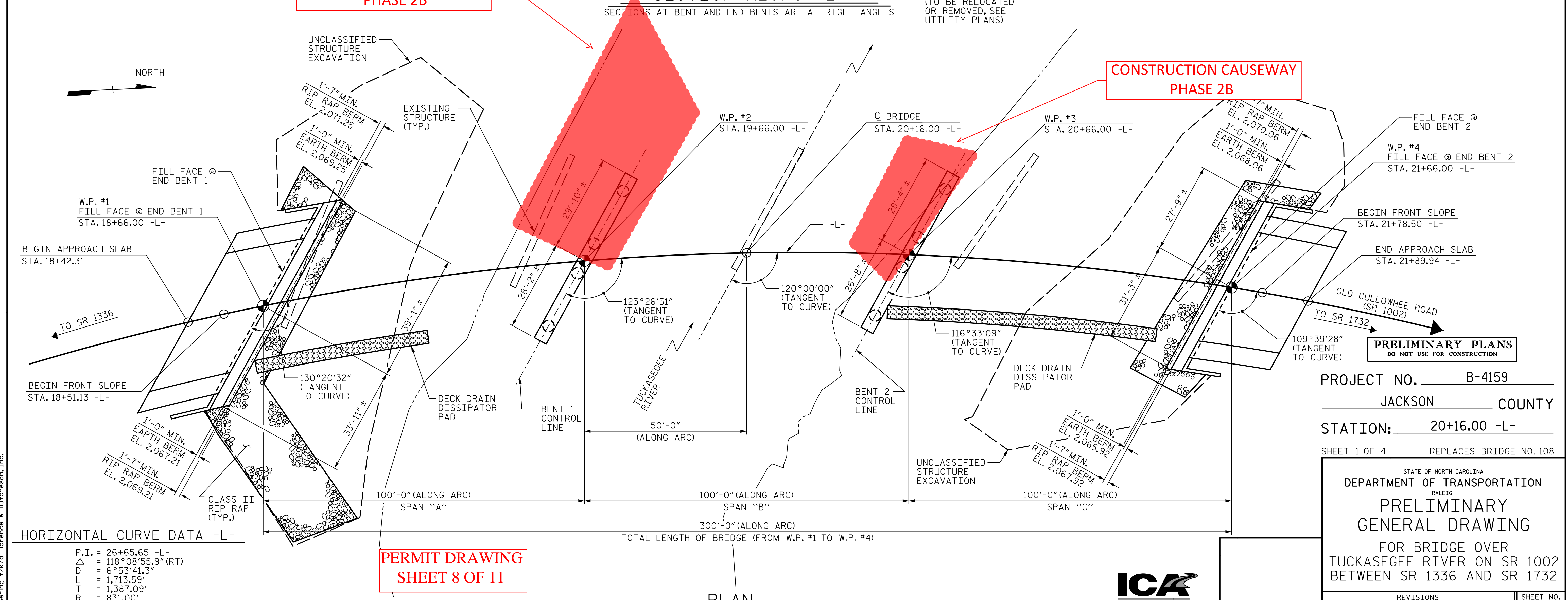
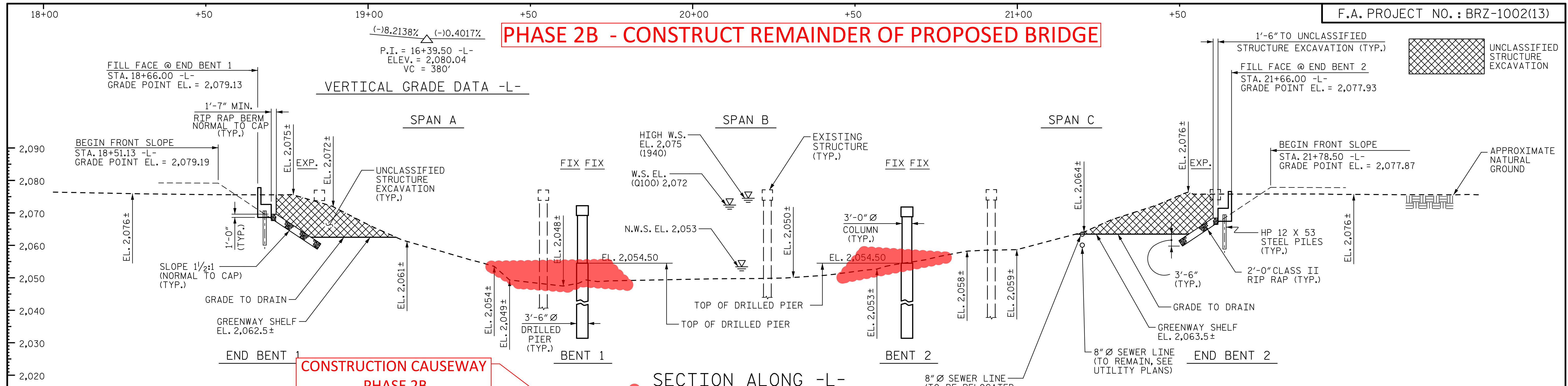


Scale: 1" = 50'



5/14/99

PHASE 2B - CONSTRUCT REMAINDER OF PROPOSED BRIDGE



PERMIT DRAWING SHEET 8 OF 11

DRAWN BY : D. H. CARTER DATE : NOV 2013
 CHECKED BY : K. M. MOBLEY DATE : NOV 2013
 DESIGN ENGINEER OF RECORD : T. E. TALLMAN DATE : NOV 2013

PLAN

PILES NOT SHOWN FOR CLARITY
ALL BENTS ARE PARALLEL

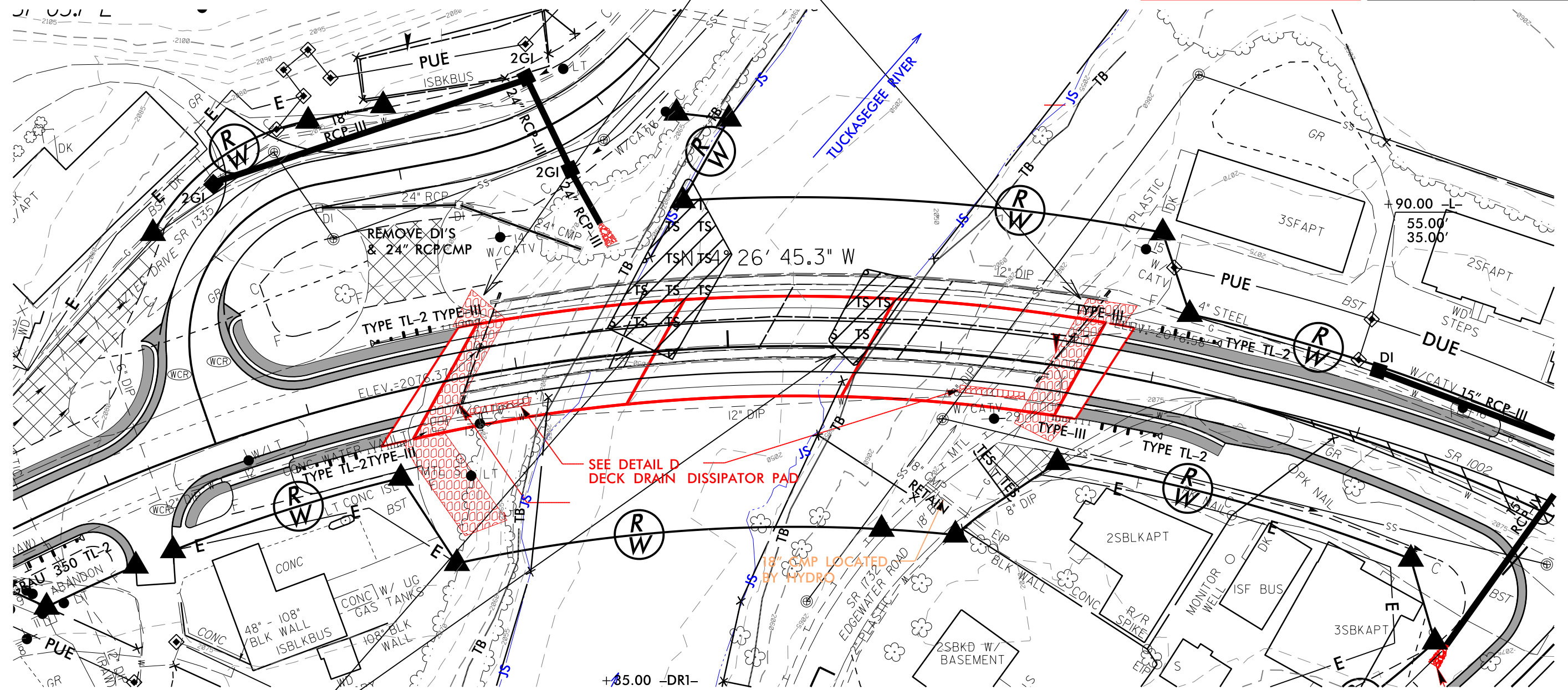


STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
PRELIMINARY GENERAL DRAWING					
FOR BRIDGE OVER TUCKASEGEE RIVER ON SR 1002 BETWEEN SR 1336 AND SR 1732					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-1					TOTAL SHEETS 4

PROJECT REFERENCE NO. B-4159		SHEET NO.	
Permit Drawing Blowup			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS		DO NOT USE FOR CONSTRUCTION	

Excavation shown in profile view is not shown in plan view for clarity.

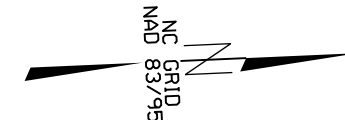
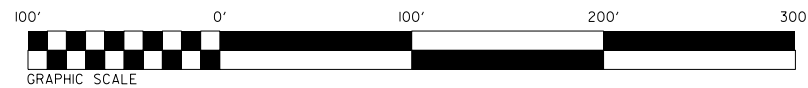
PERMIT DRAWING
SHEET 9 OF 11



**TEMP. WORK PAD
PHASE 2B**

PLAN VIEW

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER



Scale: 1" = 50'

5/14/99

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	20+07/20+68 -L-	Temp Workpad 1A						0.04				
1	18+87/20+70 -L-	Temp Workpad 1B						0.08				
1	20+14/20+86 -L-	Temp Workpad 2A						0.05				
1	19+45/20+86 -L-	Temp Workpad 2B						0.08				
1	18+87/20+86 -L-	Bank Stabilization									185	
TOTALS:								0.19			185	

NOTE: Interior bent of existing bridge to be removed
 NOTE: Project will be constructed using a series of workpads. Total impacts shown accounts for overlapping of workpads between different phases of staged construction.
 NOTE: Total Bent Impacts: 11,084 in² < **0.01 acres for all permanent bents**
 NOTE: Bank Stabilization impacts included within temporary impacts shown.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

 JACKSON COUNTY
 WBS - 35507.1.1 (B-4159)

09/08/99

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

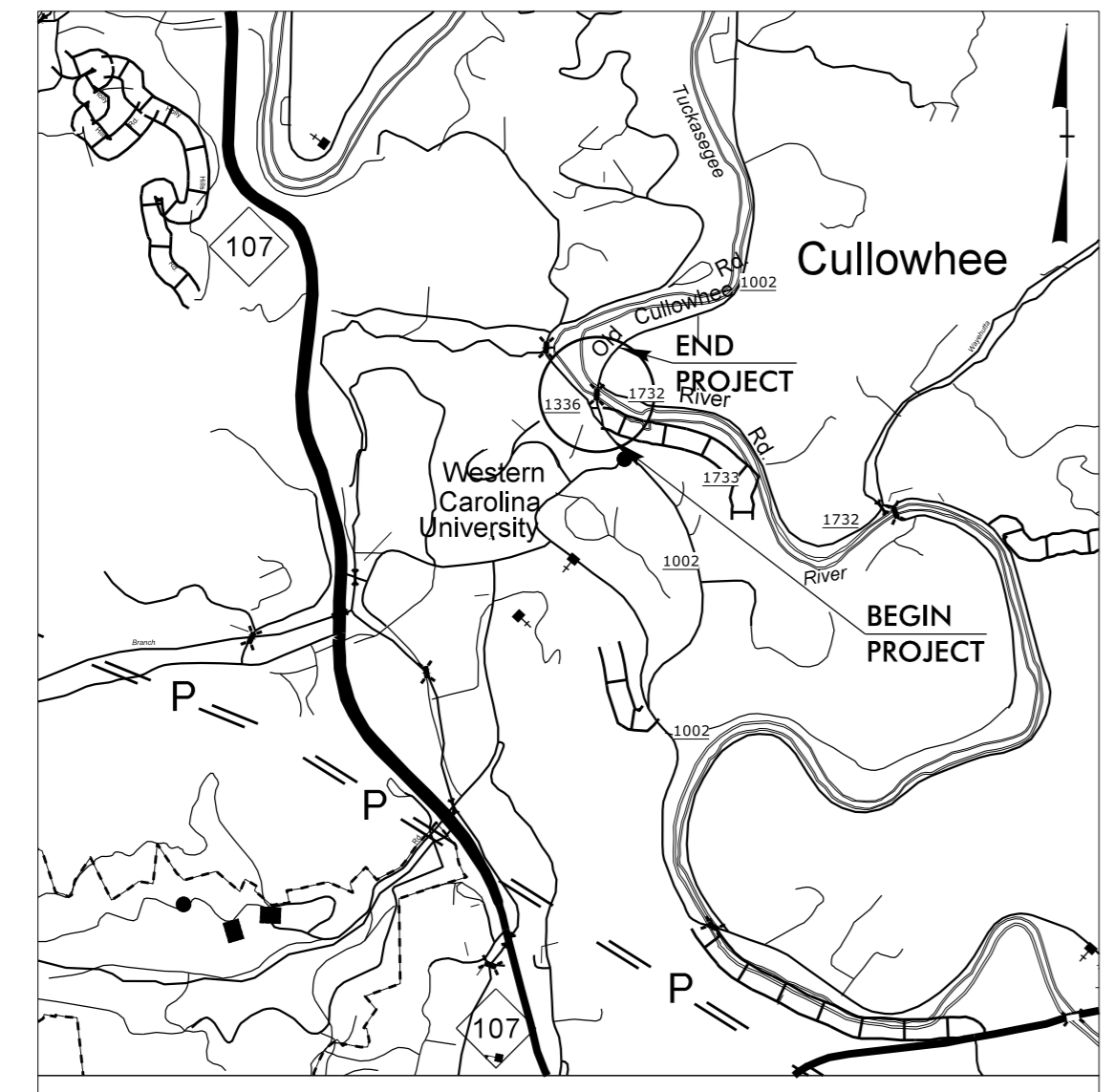
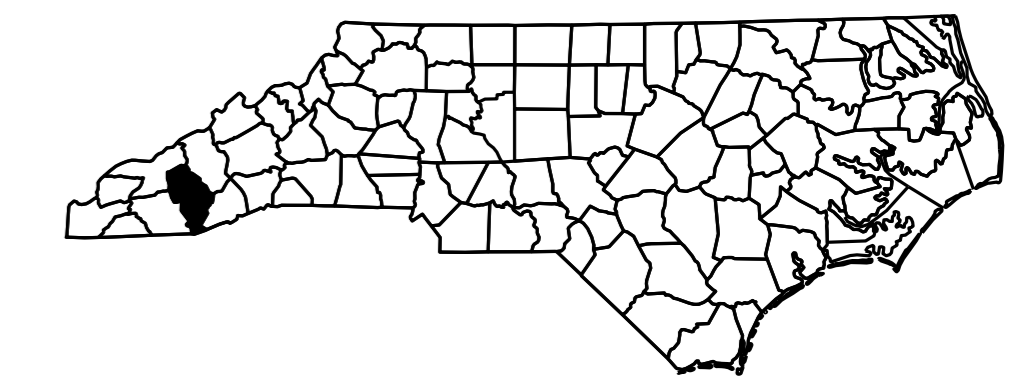
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

JACKSON COUNTY

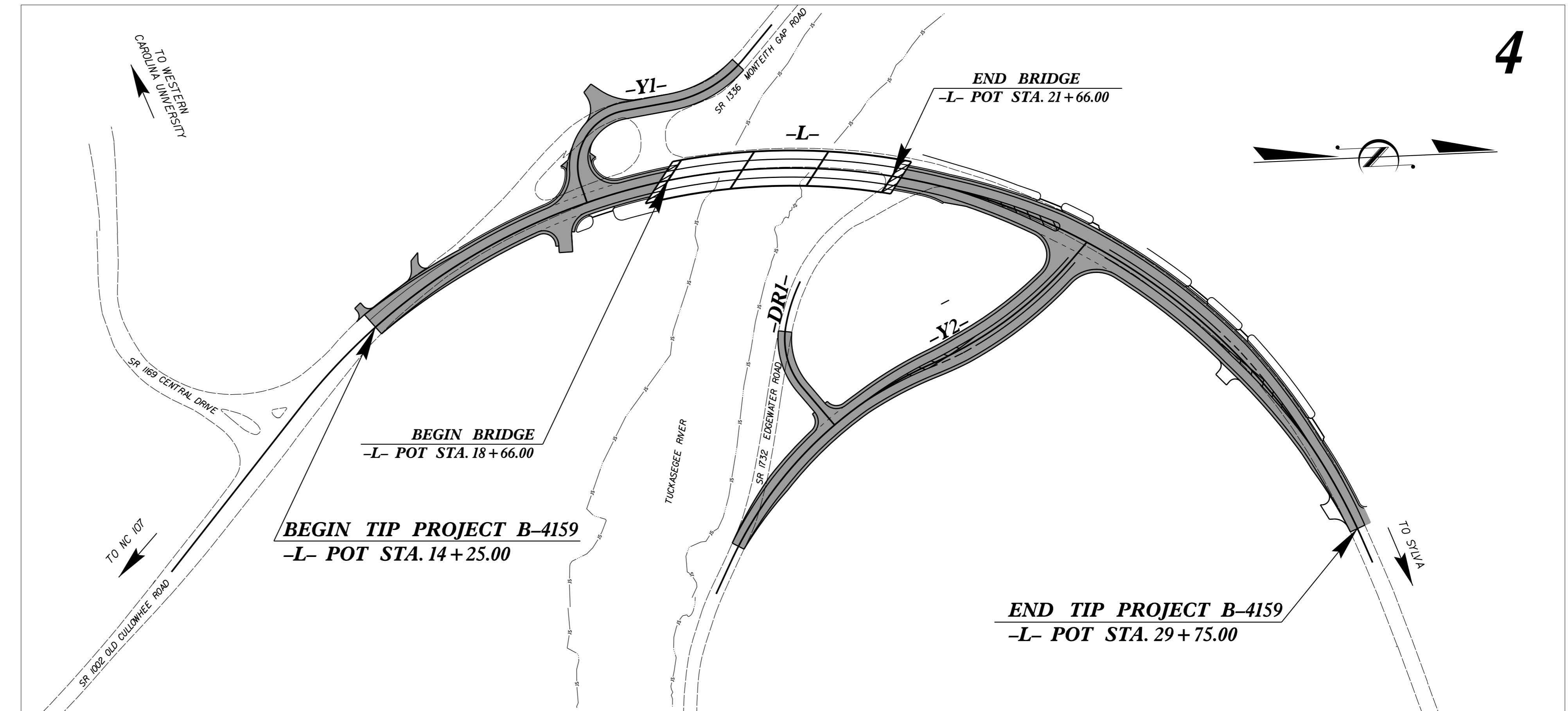
**LOCATION: BRIDGE NO. 108 OVER THE TUCKASEGEE RIVER
ON SR 1002 (OLD CULLOWHEE RD.)**

**TYPE OF WORK: GRADING, PAVING, DRAINAGE
AND STRUCTURE**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4159	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33507.1.1	BRZ-1002(13)	PE	
33507.2.1	BRZ-1002(13)	ROW & UTIL	



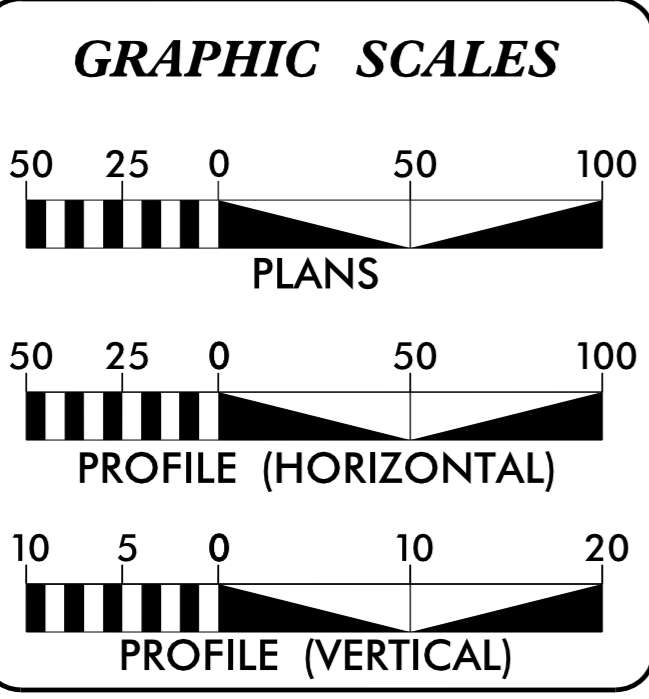
VICINITY MAP SHOWING LOCATION OF PROJECT B-4159



THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER GUIDELINES FOR BRIDGE PROJECTS

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT
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 =	9,800
ADT 2032 =	15,400
DHV =	10 %
D =	60 %
T =	5 % *
V =	40 MPH
* TTST 2% DUAL 3%	
FUNC CLASS =	RURAL COLLECTOR

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4159 =	0.237 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4159 =	0.057 MILES
TOTAL LENGTH OF TIP PROJECT B-4159 =	0.294 MILES

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

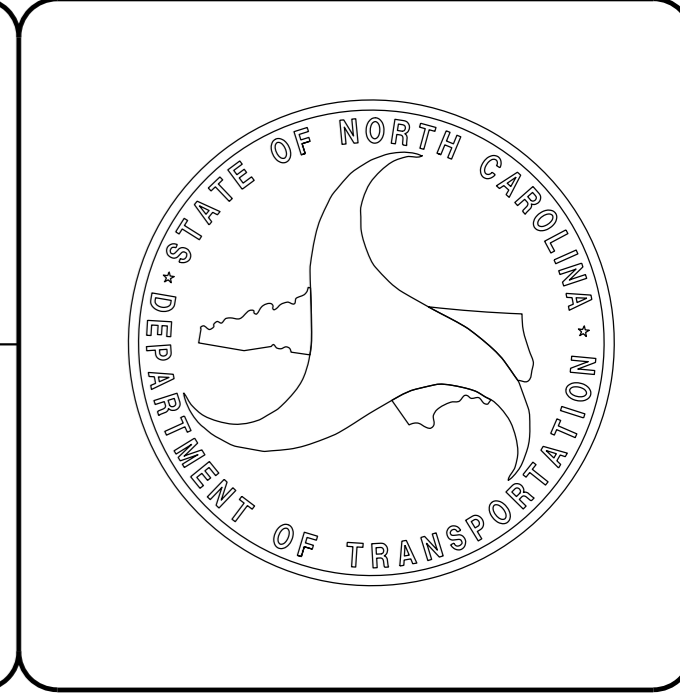
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: NOVEMBER 22, 2013	TONY HOUSER, P.E. PROJECT ENGINEER
LETTING DATE: DECEMBER 16, 2014	LEE ANN MOORE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



TIP PROJECT: B-4159

CONTRACT: C203498

10-APR-2014 08:29
R:\Roadway\Proj\A111_Preferrred\b4159_rdy_t1sh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

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	----->
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: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	?? ??

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
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	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION 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	----- RW
Proposed Right of Way Line with Iron Pin and Cap Marker	----- RW ▲
Proposed Right of Way Line with Concrete or Granite RW Marker	----- RW ●
Proposed Control of Access Line with Concrete CA Marker	----- CA
Existing Control of Access	----- CA
Proposed Control of Access	----- CA
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
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	▭ 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	⊙
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊙
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

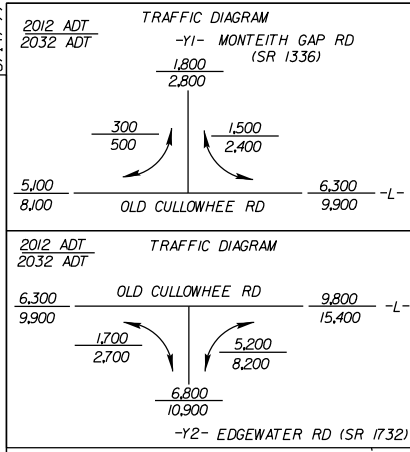
SANITARY SEWER:

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

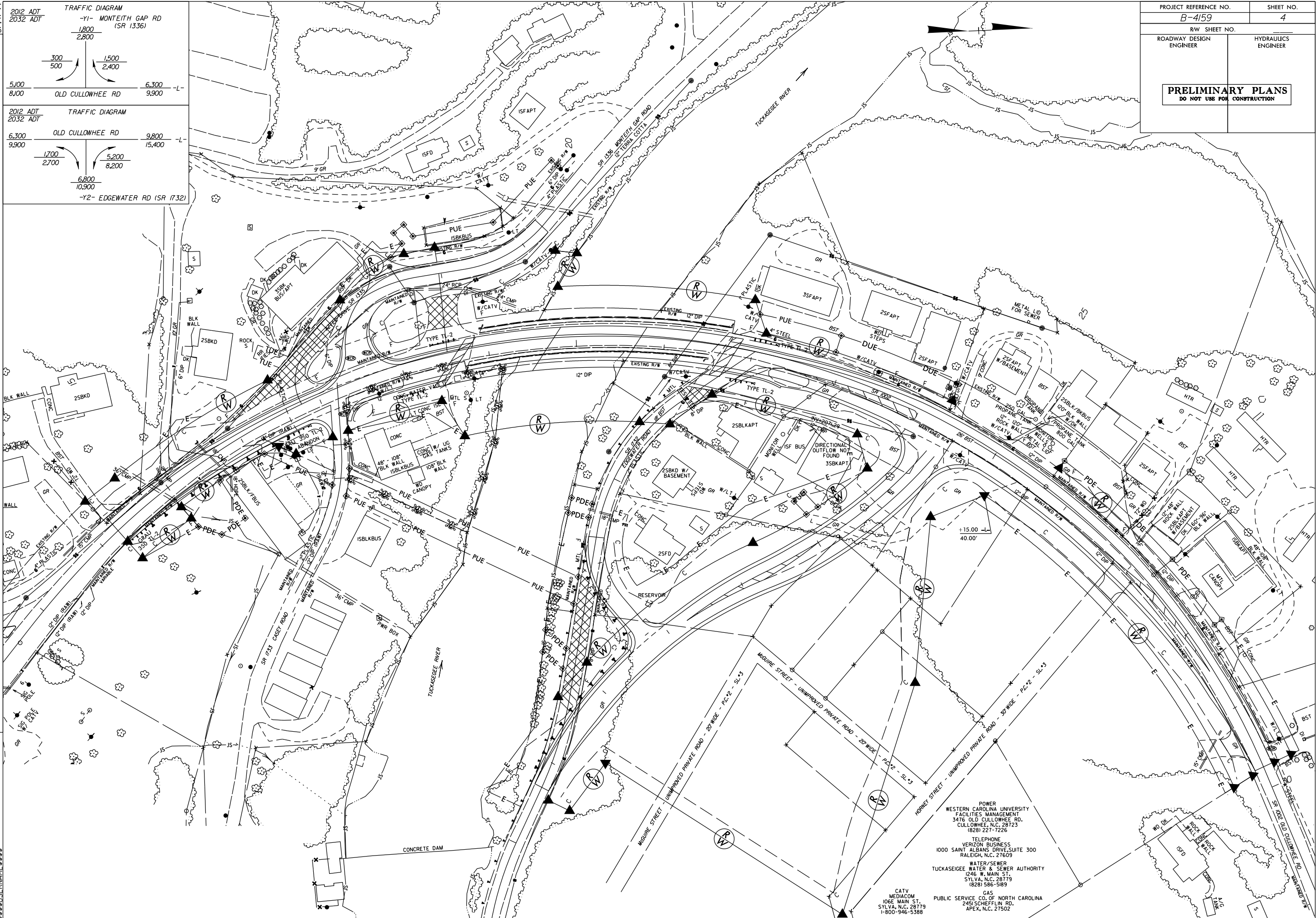
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	▭
Utility Located Object	○
Utility Traffic Signal Box	▭
Utility Unknown U/G Line	----- ?U/L
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. B-4159	SHEET NO. 4
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



RIGHT OF WAY REVISION 04/07/2014
 (REVISION 1) PARCEL NO. 3, KOKOBELLVILLE LLC, PERMANENT UTILITY EASEMENT (PUE) WAS CHANGED TO TEMPORARY UTILITY EASEMENT (TUE)
 (REVISION 2) PARCEL NO. 8, CONSOLIDATED PROPERTY SERVICE, INC. BARRICADE WAS MOVED TO PROVIDE ACCESS TO PROPERTY TO SOUTH SIDE OF SR 1732.
 (REVISION 3) PARCEL NO. 10, LOJUAN & MARION COOPER, PDE ADDED TO END OF EXISTING 18' CMP TO BE RETAINED, TCE ADDED TO SOUTH SIDE OF SR 1732.
 (REVISION 4) PARCEL NO. 24, STATE OF N.C., EAST MAINTAINED R/W ADDED TO SR 1732 FOR PROPOSED R/W & EASEMENT TIES, PUE ADDED TO SOUTH SIDE OF SR 1732.
 (REVISION 5) PARCEL NO. 25, STATE OF N.C., EAST MAINTAINED R/W ADDED TO SR 1732 FOR PROPOSED R/W & EASEMENT TIES, PUE ADDED TO SOUTH SIDE OF SR 1732.



REVISIONS

POWER
 WESTERN CAROLINA UNIVERSITY
 FACILITIES MANAGEMENT
 3476 OLD CULLOWHEE RD.
 CULLOWHEE, N.C. 28723
 (828) 227-7226

TELEPHONE
 VERIZON BUSINESS
 1000 SAINT ALBANS DRIVE, SUITE 300
 RALEIGH, N.C. 27609

WATER/SEWER
 TUCKASEE WATER & SEWER AUTHORITY
 1246 W. MAIN ST.
 SYLVIA, N.C. 28779
 (828) 586-5189

GAS
 PUBLIC SERVICE CO. OF NORTH CAROLINA
 245 SCHEFFLIN RD.
 APEX, N.C. 27502

 SYSTEMTIME *****

 USERNAME *****

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:

NCDOT

Attn: Michael Turchy
1598 Mail Service Center
Raleigh, NC 27699-1598

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

Wilmington District, Asheville Office

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

B-4159, the replacement of Bridge No. 108 over Tuckasegee River on SR 1002.

State: **NC** County/parish/borough: **Jackson** City: Cullowhee (unincorporated)

Center coordinates of site (lat/long in degree decimal format):

Lat. 35.315776° N, Long. -83.177870° W.

Name of nearest waterbody:

Tuckasegee River

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

Non-wetland waters: 500 linear feet: 125 width (ft) and/or acres.

Cowardin Class:

Stream Flow: moderate

Wetlands: **0** acres.

Cowardin Class:

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:

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:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: **NCDOT**.
- 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:
- USDA Natural Resources Conservation Service Soil Survey. Citation: .
- National wetlands inventory map(s). Cite name: .
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (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)



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Asheville Field Office
160 Zillicoa Street
Asheville, North Carolina 28801
June 27, 2014

Mr. Richard Hancock, P.E., Manager
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: Endangered Species Concurrence, Proposed Replacement of Bridge No. 108 over the Tuckaseegee River on SR 1002 in Jackson County, North Carolina, Federal Project No. BRZ-1002 (13), WBS Element No. 35507.1.1, T.I.P. No. B-4159

On May 30, 2014, we received your letter (via email) requesting section 7 concurrence on the subject project and its possible effect on the federally endangered Appalachian elktoe (*Alasmidonta raveneliana*). The following comments are provided in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

North Carolina Natural Heritage Program records indicate that there are multiple occurrences of the Appalachian elktoe in the Tuckaseegee River. Critical habitat for this species in the Tuckaseegee River extends up to a point about 225 meters upstream from the proposed project site. The nearest known record for the species is located about 6.9 kilometers (km) downstream from the proposed project site. Habitat characteristics within the project footprint are adequate for the Appalachian elktoe; however, hypolimnetic discharge from reservoirs upstream alter water temperatures and may reduce reproduction by remaining too cold for glochidial development. It is presently unknown exactly where in the Tuckaseegee River the temperature becomes warm enough to support mussel fauna, but a shell fragment collected at the Locust Creek Access Area (approximately 1.2 km upstream from the nearest record of the Appalachian elktoe) indicates that there is a chance that mussels extend farther upstream than presently known. Surveys conducted in 2011 focused primarily on the project footprint and the area immediately downstream from the subject bridge; however, other construction-related direct and indirect effects do have potential to affect the species or critical habitat farther downstream in the Tuckaseegee River. This possibility is exacerbated by the potential for flash flooding, as demonstrated during the construction of B-3861, 1.5 km upstream. Possible direct and indirect effects to the downstream critical habitat and the species include construction runoff,

sedimentation, fuel/fluid spills, road runoff pollutants, and destabilization of the stream channel resulting in long-term degradation of the Tuckaseegee River and subsequent deposition of bank material in the downstream critical habitat. In order to better define the potential for indirect effects, we request that the North Carolina Department of Transportation (NCDOT) participate with our office in a preconstruction survey effort that will better define the proximity of the Appalachian elktoe downstream of the project area. We believe that this additional survey effort is necessary to ensure that the potential for indirect effects have been appropriately minimized.

To minimize the potential for negative effects, the NCDOT has committed to the following minimization measures. The minimization measures listed below are paraphrased from the May 30, 2014, request for concurrence and the accompanying February 20, 2012, biological conclusion memo.

1. Design Standards for Sensitive Watersheds will be used.
2. Construction will be phased so that no more than 50 percent of the river channel will be blocked by the work pads.
3. Work pads will be stabilized by jersey barriers on their upstream sides to prevent them from washing away during high flows.
4. The NCDOT will adhere to the North Carolina Wildlife Resources Commission's trout moratorium.

In addition to the minimization measures included in the request for concurrence, the following additional measures were discussed during a phone conversation on June 24, 2014, between Mr. Jason Mays of our staff and Mr. Michael Turchy (NCDOT) and were verified as project commitments in an email on the same date.

1. All equipment will be refueled and receive maintenance inside a designated refueling and maintenance area that is provisioned to quickly contain spills of fuel, lubricants, and other fluids.
2. The NCDOT will establish a robust contact network with Duke Energy that will ensure that impending high flows are anticipated and that any equipment on work pads be moved to high ground, with an appropriate safety margin, to ensure that equipment is not lost in the river.
3. Demolition of the existing structure will be conducted in a manner that minimizes dropping material into the river.
4. The NCDOT will participate in a preconstruction survey during the 2014 field season in order to validate the assumption that the Appalachian elktoe is not within the area that may be affected by indirect effects.

We believe these commitments will minimize the potential for negative effects to the Appalachian elktoe and its critical habitat. With implementation of the above-listed measures, we concur with the NCDOT's determination that the subject bridge construction and demolition may affect, but is not likely to adversely affect, the Appalachian elktoe and is not likely to adversely modify the critical habitat. Therefore, we believe the requirements under section 7(c) of the Act are fulfilled. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If you have questions about these comments, please contact Mr. Jason Mays of our staff at 828/258-3939, Ext. 226. In any future correspondence concerning this project, please reference our Log Number 4-2-14-242

Sincerely,



Janet A. Mizzi
Field Supervisor

cc:

Ms. Lori Beckwith, Asheville Regulatory Field Office, U.S. Army Corps of Engineers,
151 Patton Avenue, Room 208, Asheville, NC 28801-5006

Ms. Marla J. Chambers, Western NCDOT Permit Coordinator, North Carolina Wildlife
Resources Commission, 12275 Swift Road, Oakboro, NC 28129