



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits (along with corresponding Water Quality Certifications)

January 31, 2018 Ver 2.3

Please note: fields marked with a red asterisk *below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.
https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf
A. Processing Information
County (or Counties) where the project is located:*
Edgecombe
Is this project a public transportation project?* Yes C No This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.
Is this a NCDOT Project?* • Yes C No
(NCDOT only) T.I.P. or state project number: B-4932 (Central)
WBS # 40137.1.1 (for NCDOT use only)
 1a. Type(s) of approval sought from the Corps: * ✓ Section 404 Permit (wetlands, streams and waters, Clean Water Act) ✓ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)
1b. What type(s) of permit(s) do you wish to seek authorization? * ✓ Nationwide Permit (NWP) ☐ Regional General Permit (RGP) ☐ Standard (IP)
This form may be Corps to initiate the standard/individual permit process. Please contact your Corps representative for submittal of standard permits. All required items that are not provided in the E-PCN and be added to the miscellaneous upload located at the bottom of this form.
Notionwide Permit (NIM/D) Number: 23 - Categorical Exclusions

Nationwide Permit (NWP) Number: 23 - Categorical Exclusions

NWP Number Other:

List all NW numbers you are applying for not on the drop down list.

1c. Type(s) of approval sought from the DWR:*

check all that apply	
 ✓ 401 Water Quality Certification - Regular ☐ Non-404 Jurisdictional General Permit ☐ Individual Permit 	☐ 401 Water Quality Certification - Express✓ Riparian Buffer Authorization
1d. Is this notification solely for the record because written appro	val is not required?
For the record only for DWR 401 Certification:	○ Yes ⊙ No
For the record only for Corps Permit:	C Yes ⊙ No
1e. Is payment into a mitigation bank or in-lieu fee program proposition for in-lieu fee program proposition so, attach the acceptance letter from mitigation bank or in-lieu fee program • Yes • No	sed for mitigation of impacts?
Acceptance Letter Attachment Click the upload button or drag and drop files here to attach document B-4932 DMS Acceptance.pdf FILETYPEMUST BEPDF	144.45KB
1f. Is the project located in any of NC's twenty coastal counties?* O Yes O No	
1h. Is the project located in a designated trout watershed?* ○ Yes ○ No	
Link to trout information: http://www.saw.usace.army.mil/Missions/Regulate	ory-Permit-Program/Agency-Coordination/Trout.aspx
B. Applicant Information	
1a. Who is the Primary Contact?*	
NCDOT	
NCDOT 1b. Primary Contact Email: *	
NCDOT 1b. Primary Contact Email: * gcashin@ncdot.gov	
NCDOT 1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx	
NCDOT 1b. Primary Contact Email:* gcashin@ncdot.gov 1c. Primary Contact Phone:* (xxx)xxx-xxxx (919)707-6107	
NCDOT 1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? □ Owner Applicant (other than owner) Agent/Consultant	
NCDOT 1b. Primary Contact Email:* gcashin@ncdot.gov 1c. Primary Contact Phone:* (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? ☐ Owner Applicant (other than owner) Agent/Consultant (Check all that apply)	
1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? □ Owner Applicant (other than owner) □ Agent/Consultant (Check all that apply) 2. Owner Information	
1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? ☐ Owner ☑ Applicant (other than owner) ☐ Agent/Consultant (Check all that apply) 2. Owner Information 2a. Name(s) on recorded deed:	
1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? □ Owner Applicant (other than owner) □ Agent/Consultant (Check all that apply) 2. Owner Information 2a. Name(s) on recorded deed: 2b. Deed book and page no.: 2c. Responsible party:	
1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? □ Owner Applicant (other than owner) □ Agent/Consultant (Check all that apply) 2. Owner Information 2a. Name(s) on recorded deed: 2b. Deed book and page no.: 2c. Responsible party: (for Corporations)	
1b. Primary Contact Email: * gcashin@ncdot.gov 1c. Primary Contact Phone: * (xxx)xxx-xxxx (919)707-6107 1d. Who is applying for the permit? □ Owner Applicant (other than owner) □ Agent/Consultant (Check all that apply) 2. Owner Information 2a. Name(s) on recorded deed: 2b. Deed book and page no.: 2c. Responsible party: (for Corporations)	

Street Address	
Address Line 2	
City	State / Province / Region
Postal / Zip Code	Country
2e. Telephone Number:	
(xxx)xxx-xxxx	
2f. Fax Number: (xxx)xxx-xxxx	
2g. Email Address:*	
pharris@ncdot.gov	
3. Applicant Information (if different from owner)	
3a. Applicant is:	
C Agent	
C Other	
If other please specify.	
3b. Name:	
3c. Business Name:	
(if applicable)	
3d. Address	
Street Address	
Address Line 2	
City	State / Province / Region
Postal / Zip Code	Country
3e. Telephone Number:	
(xxx)xxx-xxxx	
3f. Fax Number:	
(xxx)xxx-xxxx	
3g. Email Address:*	
gcashin@ncdot.gov	
C Project Information and Prior Pro	piect History
C. Project Information and Prior Pro	nject i listory
4.5.1.41.6.41	

1. Project Information

1a. Name of project: *
B-4932, Bridge No. 28 on NC 42
1b. Subdivision name: (if appropriate)
1c. Nearest municipality / town: * Old Sparta
1d Driving directions*

If it is a new project and can not easily be found in a GPS mapping system. Rease provide directions. NC 42 over the Tar River, between Old Sparta and Scotts Crossroads 2. Project Identification 2a. Property Identification Number: (tax PIN or parcel ID) 2b. Property size: (in acres) 2c. Project Address Street Address Address Line 2 City State / Province / Region Postal / Zip Code Country 2d. Site coordinates in decimal degrees Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.) Latitude:* Longitude:* 35.790557 -77.550289 ex: 34.208504 -77.796371 3. Surface Waters

3a. Name of the nearest body of water to proposed project:*

Tar River

3b. Water Resources Classification of nearest receiving water: *

C. NSW

Surface Water Lookup

3c. What river basin(s) is your project located in?*

Tar-Pamlico

River Basin Lookup

4. Project Description

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: *

Land use in the vicinity consists of forest, agriculture, rural residential and commercial development. A NC Wildlife Resources Commission public boat ramp is adjacent to the project site.

4b. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4c. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

Click the upload button or drag and drop files here to attach document

File type must be pdf

4d. List the total estimated acr				
1.48	eage of all existing wetland	ls on the property:		
4e. List the total estimated line (intermittent and perennial) 1,303	ear feet of all existing stream	ms on the property:		
4f. Explain the purpose of the Replace the existing bridge built in				
4g. Describe the overall project The existing 13-span, 606 foot structure of the existing the span bridge with approximately 6 feet above the extraffic during construction. A temporal standard roadbuilding equipment	ructure will be replaced on a ne ill be 610 feet long, with a deck visting structure. The existing b porary bridge will be used instea	ew location alignment northwest o width of 34 feet. The new roadwa ridge structure will serve as an or	f the existing ay grade will be nsite detour for	
4h. Please upload project drav		ect.		
Click the upload button or drag and drop fil				
B4932_Permit Drawing_Wetland	-	2.67		
B4932_Permit Drawing_Buffer _2	0180503.pdf	1.17		
B4932 Roadway Plans.pdf		2.62	ИВ	
File type must be pdf 5. Jurisdictional Determ	minations			
5a. Have the wetlands or strea	ams been delineated on the	property or proposed impact	areas?*	
⊙ Yes	C No		C Unknown	
Comments: A Preliminary JS was requested 5 request was sent February 1, 201 and Garcy Ward.				
	.41 1 - 1 - 4 41	C C	de?*	
5b. If the Corps made a jurisdi	ctional determination, what	type of determination was ma		
5b. If the Corps made a jurisdice. ○ Preliminary	© Approved	C Unknown	C N/A	
			C NA	
© Preliminary Corps AID Number:	© Approved		C N/A	
© Preliminary Corps AID Number: Example: SAW-2017-99999	© Approved	C Unknown	on and Amy James, NCDOT	
© Preliminary Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated	© Approved	C Unknown		
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known):	© Approved	C Unknown		
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known): Agency/Consultant Company:	© Approved I the jurisdictional areas?	C Unknown Tyler Stanto	on and Amy James, NCDOT	
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known): Agency/Consultant Company: Other:	C Approved If the jurisdictional areas? Corps jurisdictional determination upload	C Unknown Tyler Stanto	on and Amy James, NCDOT	
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known): Agency/Consultant Company: Other: 5d. If yes, list the dates of the 5d1. Jurisdictional determination Click the upload button or drag and drop file	C Approved If the jurisdictional areas? Corps jurisdictional determination upload	C Unknown Tyler Stanto	on and Amy James, NCDOT	
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known): Agency/Consultant Company: Other: 5d. If yes, list the dates of the 5d1. Jurisdictional determination Click the upload button or drag and drop fille type must be PDF 6. Project History	C Approved If the jurisdictional areas? Corps jurisdictional determination upload les here to attach document	C Unknown Tyler Stanto	on and Amy James, NCDOT	
Corps AID Number: Example: SAW-2017-99999 5c. If 5a is yes, who delineated Name (if known): Agency/Consultant Company: Other: 5d. If yes, list the dates of the 5d1. Jurisdictional determination Click the upload button or drag and drop fille type must be PDF 6. Project History	C Approved If the jurisdictional areas? Corps jurisdictional determination upload les here to attach document	C Unknown Tyler Stanto	on and Amy James, NCDOT ns and attach documentation.	

7a. Is this a phased project?*

○ Yes

○ No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. \	Where are	the i	impacts	associated	with	vour	project?	(check al	I that	app	Ιv):

✓ Wetlands✓ Streams-tributaries✓ 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. Site # - Reason for impact *	2b. Impact type *	2c. Type of wetland *	2d. Wetland name	*2e. Forested *	2f. Type of Jurisdicition *	2g. Impact area *
Site 1 Map label (e.g. Road Crossing 1 - Oulvert, dew atering, etc)	Permanent (P) or Temporary (T)	Headwater Forest	WH & WI	Yes	Both (404, 10) or DWR (401, other)	0.020 (acres)
Site 2 Map label (e.g. Road Crossing 1 - Culvert, dew atering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WJ	Yes	Both (404, 10) or DWR (401, other)	0.100 (acres)
Site 2A Map label (e.g. Road Crossing 1 - Culvert, dew atering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WK	Yes	Both (404, 10) or DWR (401, other)	0.010 (acres)
Site 4 Map label (e.g. Road Crossing 1 - Culvert, dew atering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WA	Yes	Both (404, 10) or DWR (401, other)	0.050 (acres)
Site 5 Map label (e.g. Road Crossing 1 - Culvert, dew atering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WB	Yes	Both (404, 10) or DWR (401, other)	0.030 (acres)
Site 6 Map label (e.g. Road Crossing 1 - Culvert, dew atering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WC	Yes	Both (404, 10) or DWR (401, other)	0.020 (acres)
Site 7 Map label (e.g. Road Crossing 1 - Culvert, dewatering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WF	Yes	Both (404, 10) or DWR (401, other)	0.010 (acres)
Site 8 Map label (e.g. Road Crossing 1 - Culvert, dewatering, etc)	P Permanent (P) or Temporary (T)	Bottomland Hardwood Forest	WD	Yes	Both (404, 10) or DWR (401, other)	0.010 (acres)

2g. Total Temporary Wetland Impact

0.000

2g. Total Permanent Wetland Impact

0.250

2g. Total Wetland Impact

0.250

2h. Comments:

There will be <0.01 ac of hand clearing.

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. Reason for impact	[*] 3b.Impact type [*]	3c. Type of impact	*3d. Stream name *	3e. Stream Type *	3f. Type of Jurisdiction *	3g. Stream width *	3h. Impad
Site 1 Map label (e.g. Road Crossing 1)	Permanent (P) or Temporary (T)	Fill	SA	Perennial Perennial (PER) or intermittent (INT)	Both	3 Average (feet)	48 (linear feet)
Site 1 Map label (e.g. Road Crossing 1)	T Permanent (P) or Temporary (T)	Fill	SA	Perennial Perennial (PER) or intermittent (INT)	Both	3 Average (feet)	17 (linear feet)
Site 2 - relocation Map label (e.g. Road Crossing 1)	Permanent (P) or Temporary (T)	Relocation	SA	Perennial Perennial (PER) or intermittent (INT)	Both	3 Average (feet)	271 (linear feet)
Site 2 - relocation Map label (e.g. Road Crossing 1)	T Permanent (P) or Temporary (T)	Relocation	SA	Perennial Perennial (PER) or intermittent (INT)	Both	3 Average (feet)	36 (linear feet)
Site 5 Map label (e.g. Road Crossing 1)	Permanent (P) or Temporary (T)	Fill	SB	Perennial Perennial (PER) or intermittent (INT)	Both	2 Average (feet)	36 (linear feet)
Site 5 Map label (e.g. Road Orossing 1)	T Permanent (P) or Temporary (T)	Fill	SB	Perennial Perennial (PER) or intermittent (INT)	Both	2 Average (feet)	7 (linear feet)
	Site 1 Map label (e.g. Road Crossing 1) Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 5 Map label (e.g. Road Crossing 1) Site 5 Map label (e.g. Road Crossing 1)	Site 1 Map label (e.g. Road Crossing 1) Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 5 Map label (e.g. Road Crossing 1)	Site 1 Map label (e.g. Road Crossing 1) Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T)	Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T)	Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 5 Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Fermanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Fermanent (P) or Temporary (T) Fill SB Perennial Perennial	Site 1 Map label (e.g. Road Crossing 1) Site 1 Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 2 - relocation Map label (e.g. Road Crossing 1) Site 3 Permanent (P) or Temporary (T) Site 4 Relocation SA Perennial Both Perennial (PER) or intermittent (INT) Site 5 Parmanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Fill SB Perennial Both Perennial (PER) or intermittent (INT) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Fill SB Perennial Both Perennial (PER) or intermittent (INT) Site 5 Tamporary (T) Fill SB Perennial Both Perennial (PER) or intermittent (INT)	Site 1 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 1 Type* Permanent (P) or Temporary (T) Site 1 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 2 - relocation Map label (e.g. Road Crossing 1) Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 2 - relocation Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 2 - relocation Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 3 Reprenation (P) or Temporary (T) Site 5 P Map label (e.g. Road Crossing 1) Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Site 5 Map label (e.g. Road Crossing 1) Permanent (P) or Temporary (T) Permanent (P) or Temporary (T) Average (feet) Site 5 P Fill SB Perennial Permanent (PER) or Intermittent (INIT) Average (feet)

^{**} All Perennial or Intermittent streams must be verified by DWR or delegated local government.

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

355

3i. Total temporary stream impacts:

60

3i. Total stream and tributary impacts:

415

3j. Comments:

BRIDGE PERMANENT SURFACE WATER IMPACTS BASED ON 76 SF PER BENT (<.01 AC)
TEMPORARY WORK BRIDGE: TEMPORARY SURFACE WATER IMPACTS BASED ON 390 SF DUE TO BENTS
TEMPORARY DEMOLITION WORK BRIDGE: TEMPORARY SURFACE WATER IMPACTS BASED ON 240 SF DUE
TO BENTS

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. Site # - Reason for impact *	4b. Impact type *	4c. Name of waterbody*	4d. Activity type *	4e. Waterbody type	*4f. Impact area *
Site 3 construction and demolition Map label (e.g. Road Crossing 1)	T Permanent (P) or Temporary (T)	Tar River (if applicable)	Bridge	Other	0.01 (acres)
Site 3 Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Tar River (if applicable)	Bridge	Other	0.01 (acres)

4g. Total temporary open water Impacts: 0.01						
4g. Total permanent open water 0.01	impacts:					
4g. Total open water impacts:						
4h. Comments:						
6. Buffer Impacts (for D	WR)					
If project will impact a protected ripa	rian buffer, then com	plete the chart	below. Individ	ually list all buffer impacts be	low.	
6a. Project is in which protect ba	asin(s)?*					
Check all that apply.	2011(0)					
Neuse			▽ Tar-P	amlico		
Catawba			Rand			
Goose Creek Other			Jorda	n Lake		
Other						
6b. Impact Type *	6c. Per or Temp *	6d. Stream ı	name *	6e. Buffer mitigation required?*	6f. Zone 1 impact *	6g. Zone 2 impact *
Site 1 Allowable Location and Exempt, Allowable, allowable v	P v/ Permanent (P) or	UT		Yes	4,286 (square feet)	2,039 (square feet)
mitigation	Temporary (T)				(= 4=== = - = -)	(=4
Site 2 Allowable w/ Mitigation Location and Exempt, Allowable, allowable v mitigation	P Permanent (P) or Temporary (T)	Tar River		Yes	14,469 (square feet)	6,316 (square feet)
Site 2 Allowable Location and Exempt, Allowable, allowable v	P v/ Permanent (P) or	Tar River		Yes	7,205 (square feet)	2,337 (square feet)
mitigation	Temporary (T)				, , , ,	, , ,
Site 3 Allowable Location and Exempt, Allowable, allowable v mitigation	P Permanent (P) or Temporary (T)	Tar River		Yes	4,468 (square feet)	2,932 (square feet)
Site 4 Allowable Location and Exempt, Allowable, allowable virtigation	P Permanent (P) or Temporary (T)	UT		Yes	4,367 (square feet)	3,469 (square feet)
Site 5 Allowable	P	UT		Yes	0	1,022
Location and Exempt, Allowable, allowable vimitigation					(square feet)	(square feet)
6h. Total buffer impacts:						
	Zone 1		Zone 2			
Temporary impacts:	0.00		0.00			
	Zone 1		Zone 2			
Permanent impacts:	34,795.00		18,115.00			
	Zone 1		Zone 2			
Total buffer impacts:	34,795.00		18,115.00			

6i. Comments: A portion of the buffer impacts at Site 2 occur in wetlands and were removed from requested buffer mitigation. Supporting Documentation - i.e. Impact Maps, Plan Sheet, etc. Click the upload button or drag and drop files here to attach document File must be PDF **E. Impact Justification and Mitigation** 1. Avoidance and Minimization 1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: * The preferred alternative avoided the impacts from a temporary detour and avoided impacts to the historic Old Sparta Vessel, and minimized impacts on the nearby WRC boat ramp. 1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: * Design Standards for Sensitive Watersheds will be incorporated throughout construction of the project. NCDOT has also agreed to special project conditions approved by the National Marine Fisheries Service (see attached letter). A split in-water work moratorium from February 15 to June 30 and August 15 to October 31 will be adhered to. 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 O No 2c. If yes, mitigation is required by (check all that apply): **▼** DWR Corps 2d. If yes, which mitigation option(s) will be used for this project? Mitigation bank **▼** Payment to in-lieu fee program Permittee Responsible Mitigation 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) 355 4c. If using stream mitigation, what is the stream temperature: NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website. 4d. Buffer mitigation requested (DWR only): (square feet) 19,473 4e. Riparian wetland mitigation requested: 0.24 4f. Non-riparian wetland mitigation requested: (acres) 0 4g. Coastal (tidal) wetland mitigation requested:

(acres)				
4h. Comments				
6. Buffer n	nitigation (State Regulated	Riparian Buffer R	ules) - requi	ired by DWR
	oject result in an impact within a prote contact DWR for more information. © No	ected riparian buffer tha	nt requires buffe	er mitigation? If yes, you must fill out this entire
-	hen identify the square feet o	-	-	arian buffer that requires mitigation
	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1	bridge construction	14,469	3	43,407
Zone 2	bridge construction	5,004	1.5	7,506
6f. Total buffer	mitigation required			
6g. If buffer mi ⊙ Yes ○ No	tigation is required, is payment to a r	nitigation bank or NC Div	vision of Mitiga	tion Services proposed?
6h. Attach the B-4932 DMS Ac	acceptance letter from the mitigation	bank or NC Division of	Mitigation Serv	
(PDF only)	ooptanoo.pai		144.4010	
6j. Comments: A portion of the	buffer impacts at Site 2 occur in wetlands	s and were removed from re	eauested buffer r	nitigation.
·	ıwater Management a		·	
1. Otom				
	*** Recent changes to	the stormwater rules have	required updates	s to this section .***
1. Diffuse	Flow Plan			
1a. Does the p Rules?	roject include or is it adjacent to prot	tected riparian buffers i	dentified within	one of the NC Riparian Buffer Protection
Yes	C No			
	mpacts and high ground impacts requ nted riparian buffer protection progra			water treatment. If the project is subject to a how diffuse flow will be maintained.
	Control Measures (SCM)s must be d rms and other documentation shall b		with the NC Sto	rmwater Design Manual. Associated
What type of S	CM are you providing?			
Level Spread	der			
	onveyance (lower SHWT)			
	ile (higher SHWT)			
(check all that apply	hat removes minimum 30% nitrogen			

For a list of options to meet the diffu	use flow requirements, click here.
Diffus Flow Documentation Click the upload button or drag and drop files File type must be PDF	here to attach document
2. Stormwater Manager	ment Plan
2a. Is this a NCDOT project subject of Yes O No	ect to compliance with NCDOT's Individual NPDES permit NCS000250?*
G. Supplementary	Information
Environmental Docur	nentation
	expenditure of public (federal/state/local) funds or the use of public (federal/state) land?*
• Yes	C No
	above, does the project require preparation of an environmental document pursuant to the State (North Carolina) Environmental Policy Act (NEPA/SEPA)?*
© Yes	C No
1c. If you answered "yes" to the NEPA or SEPA final approval lett	above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the ter.)*
⊙ Yes	C No
NEPA or SEPA Final Approval Leta Click the upload button or drag and drop files FILE TYPE MUST BE PDF	
2. Violations (DWR Red	quirement)
	R Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? *
C Yes	€ No
2b. Is this an after-the-fact perm	uit application?*
C Yes	No
3. Cumulative Impacts ((DWR Requirement)
3a. Will this project (based on pa	ast and reasonably anticipated future impacts) result in additional development, which could impact ty?*
C Yes	⊙ No
Due to the minimal transportation in	de a short narrative description. npact resulting from this bridge replacement, this project will neither influence th. Therefore,a detailed cumulative effects study will not be necessary.
4. Sewage Disposal (D	WR Requirement)
4a. Is sewage disposal required ○ Yes ○ No ⊙ N/A	by DWR for this project?*
5. Endangered Species	and Designated Critical Habitat (Corps Requirement)

	near an area with federally protected speci	es or habitat?*
• Yes	C No	
5b. Have you checked with the ⊙ Yes	USFWS concerning Endangered Species Ad	t impacts?*
	C No	
5c. If yes, indicate the USFWS F Raleigh	ield Office you have contacted.	
5d. Is another Federal agency i	nvolved?*	
• Yes	C No	C Unknown
What Federal Agency is involved National Marine Fisheries Service	d?	
5e. Is this a DOT project located ⊙ Yes ○ No	d within Division's 1-8?	
		_
	with USFWS Raleigh Field Office, field surveys, o	pact Endangered Species or Designated Critical Habitat?* coordination with National
6. Essential Fish Habita	at (Corps Requirement)	
6a. Will this project occur in or	near an area designated as an Essential Fis	h Habitat?*
C Yes	No No	
6b. What data sources did you NMFS Essential Fish Habitat websi	use to determine whether your site would in te	npact an Essential Fish Habitat?*
7. Historic or Prehistor	ic Cultural Resources (Corps Re	equirement)
Link to the State Historic Preserval	ion Office Historic Properties Map (does not inclu	ude archaeological data: http://gis.ncdcr.gov/hpoweb/
		governments have designated as having historic or cultural significant in North Carolina history and archaeology)?*
• Yes	C No	
7b. What data sources did you not need to be needed to be	use to determine whether your site would in	npact historic or archeological resources?*
7c. Historic or Prehistoric Infor	mation Upload	
Click the upload button or drag and drop file	·	
B4932 Historic.pdf File must be PDF		257.47KB
8. Flood Zone Designa	tion (Corps Requirement)	
Link to the FFMA Floodplain Me	aps: https://msc.fema.gov/portal/search	
Link to the 1 Link 1 loodplain in	ps. https://iisc.ichia.gov/portai/scarch	
• •	EMA-designated 100-year floodplain?*	
• Yes	C No	
8b. If yes, explain how project r NCDOT Hydraulics Unit coordination		
8c. What source(s) did you use FEMA maps	to make the floodplain determination?*	

Miscellaneous

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document

B4932 NMFS Concurrence Letter.pdf

B4932 USFWS Concurrence Letter.pdf

File must be PDF or KIVIZ

164.93KB

49.26KB

Signature

*

☑ By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Colin Mellor

Signature

Colin Mellor

Date

5/3/2018



April 19, 2018

Mr. Philip S. Harris, P.E., CPM Environmental Analysis Unit North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject:

DMS Mitigation Acceptance Letter:

B-4932, Replace Bridge Number 28 over the Tar River on NC 42), Edgecombe County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the stream, wetland and buffer mitigation for the subject project. Based on the information supplied by you on April 17, 2018, the impacts are located in CU 03020103 of the Tar-Pamlico River basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Stream and Wetlands	River	CU	Eco-		Stream			Wetlands	
	Basin	Location	Region	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh
Impacts	pacts Tar- Pamlico		NICP	0	0	355.0	0.24	0	0

^{*}Some of the impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWR's Buffer Authorization Certification, DMS will transfer funds from the NCDOT 2984 Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its riparian buffer mitigation responsibility for TIP Number B-4932. Subsequently, DMS will conduct a review of current NCDOT ILF Program mitigation projects in the river basin to determine if available buffer mitigation credits exist. If there are buffer mitigation credits available, then the Riparian Restoration Buffer Fund will purchase the appropriate amount of buffer mitigation credits from NCDOT ILF Program.

Mr. Harris April 19, 2018 Page Two NCDOT TIP B-4932

Buffer	River Basin	CU	Eco-	Buffer Impacts					
	River Dasin	- 0	Region	Zone 1	Zone 2	TOTAL			
Impacts	Tar-Pamlico	Tar-Pamlico 03020103		14,469.0	5,004.0	19,473.0			

The impacts and associated mitigation needs were under projected by the NCDOT in the 2018 impact data. DMS commits to implement sufficient compensatory stream, wetland and buffer 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 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 DMS.

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

Sincerely,

James B. Stanfill

DMS Asset Management Supervisor

Cc: Mr. Tom Steffens, USACE - Washington Regulatory Field Office

Ms. Amy Chapman, NC Division of Water Resources

File: B-4932



United States Department of the Interior

FISH AND WILDLIFE SERVICE Raleigh Field Office Post Office Box 33726 Raleigh, North Carolina 27636-3726

May 3, 2018

Philip S. Harris III, P.E., C.P.M North Carolina Department of Transportation Environmental Analysis Unit 1598 Mail Service Center Raleigh, NC 27699-1598

Dear Mr. Harris:

This letter is in response to your letter of May 1, 2018 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation (NCDOT) that the replacement of Bridge No. 28 on NC 42 over the Tar River in Edgecombe County (STIP No. B-4932) may affect, but is not likely to adversely affect the federally endangered Tar River Spinymussel (*Parvaspina steinstansana*) and the federally threatened Yellow Lance (*Elliptio lanceolata*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to information provided, mussel surveys were conducted at the project site on October 16, 2013 and November 7, 2017. The surveys extended 100 meters upstream and 400 meters downstream of NC 42. No federally listed mussel species were observed. However, it is noted that both the Tar River Spinymussel and Yellow Lance have historically been observed in the vicinity of this project site (last seen in 2001 and 1970, respectively).

The Service met with the NCDOT and others on May 27, 2015 to discuss alternatives, designs, and construction methodology. Among other things, we discussed longer spans, a reduction in the number of bents in the river, and the use of a work bridge as opposed to a causeway. We note that the current plans reflect these minimization efforts.

Based on the mussel survey results and other available information, the Service concurs with your conclusion that the proposed project may affect, but is not likely to adversely affect the Tar River Spinymussel and Yellow Lance. We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied for now. However, in the recent survey, the Atlantic Pigtoe (Fusconaia masoni) and Neuse River Waterdog (Necturus lewisii) were observed. These two species are not currently listed or proposed as federally protected species but are currently under review for proposed listing. Should one or both of these species be listed prior to the completion of this project, initiation of formal Section 7 consultation would be necessary.

We remind you that obligations under Section 7 consultation 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 in this review; (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 determined that may be affected by this identified action. The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,

Pete Benjamin Field Supervisor

Electronic copy:

Tom Steffens, USACE, Washington, NC Eric Alsmeyer, USACE, Wake Forest, NC Travis Wilson, NCWRC, Creedmoor, NC Chris Rivenbark, NCDOT, Raleigh, NC Marissa Cox, NCDOT, Raleigh, NC Gordon Cashin, NCDOT, Raleigh, Nc



UNITED STATES DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration NATIONAL MARINE FISHERIES SERVICE Southeast Regional Office 263 13th Avenue South St. Petersburg, Florida 33701-5505 http://sero.nmfs.noaa.gov

F/SER46:DR

MAY 2 - 2018

Mr. Philip S. Harris III, P.E., CPM, Unit Head Environmental Analysis Unit North Carolina Department of Transportation 1598 Mail Service Center Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

This letter responds to your request for consultation with us, the National Marine Fisheries Service (NMFS), pursuant to Section 7 of the Endangered Species Act (ESA) for the following action.

SER Number	Project Type
SER-2017-18937	North Carolina Highway 42 (NC 42) Tar River Bridge replacement

Consultation History

We received your letter requesting consultation and a completed ESA Section 7 checklist on October 12, 2017. We requested additional information on February 1, 2018. We received a response on March 16, 2018. NMFS staff had a conference call with staff from the North Carolina Department of Transportation (NCDOT) and the North Carolina Wildlife Resource Commission (NCWRC) on April 5, 2018, to discuss finding in-water work moratorium windows and noise protection measures that would be suitable for all parties involved. We sent an email to NCDOT staff outlining the proposed measures to protect Atlantic sturgeon (based on the conference call discussions) on April 6, 2018, and requested their concurrence with the use of those measures. We received a final response agreeing to the measures on April 20, 2018, and we initiated consultation that day.

Project Location

Address	Latitude/Longitude	Water body
NC 42 Tar River Bridge, Edgecombe	35.790534°N, 77.550389°W	Tar River
County, North Carolina	(North American Datum 1983)	



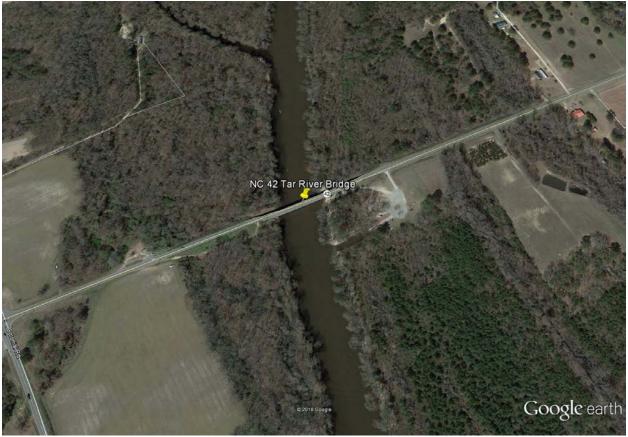


Image of the project location and surrounding area (©2018 Google)

Existing Site Conditions

The existing NC 42 Bridge spans the Tar River in Edgecombe County, approximately 12 miles northwest of Greenville, North Carolina. The NC 42 Tar River Bridge is located approximately 77.5 river miles upstream of mouth of the Tar River where it meets Pamlico Sound.

Under typical conditions the width of the river at the bridge is about 188.5 feet (ft). Water depths at the project location range from 0.5 to 4 ft deep. Bottom sediments at the project site consist of course sand and pebbles. Water quality is considered good.

Project Description

The NCDOT proposes replacing the existing 2-lane, 605-ft-long bridge with a new 2-lane 610-ft-long concrete fixed span bridge. The new bridge will be 37.25 ft wide with an overwater area of 7,022 square feet (ft²), and the bridge will be approximately 29 ft above the river's mean water elevation. The new bridge will be built slightly north of the existing (old) bridge. Upon completion of the new bridge, traffic will be routed onto the new bridge and the old bridge will be demolished.

In-water and over-water construction and demolition work will be accomplished from temporary work bridges. The use of barges is not anticipated. As with similar bridge and transportation projects, it is expected that heavy equipment such as cranes, trucks, and bulldozers will be used to accomplish demolition and construction activities. It is estimated that demolition of the old

bridge and construction of the new bridge will take 27 months to complete. Pile driving operations are expected to take about 60 days to complete for the new bridge and work bridges (includes both in-water and land pile driving). Removal of the old bridge is estimated to take 60 days to complete. The new bridge will be supported by 39 steel pipe piles with diameters of 36 inches (in) that will be installed by impact hammer. Ten of these piles will be installed within the Tar River. The temporary bridges may require impact hammer installation of up to 120 steel piles, that may be H piles or 30-in pipe piles.

The demolition of the old bridge is expected to involve sawing the superstructure into manageable pieces that would be removed by crane for appropriate upland disposal. The use of jack hammers and/or hoe rams may be required to demolish the other portions of the bridge. The substructural elements (e.g., piles) are typically removed using a crane possibly in association with a vibratory device. Some parts of the substructure demolition may use sawing or shattering equipment as well. The use of explosives is not anticipated as part of the demolition process.

The construction of the new bridge will require the installation of 2 concrete bridge bents in the Tar River. Each bent will be supported by 5 steel pipe piles that have 36-in diameters (a total of 10 in-water pipe piles for the new bridge). About 6-10 piles may be driven each day. Based on data for past projects involving the impact driving of 36-in pipe piles, it will take up to 675 hammer strikes to install each pile resulting in up to 6,750 total strikes per day. It will take up to 1 week to install all 10 in-water bridge pipe piles. The 10 bridge pipe piles will displace about 70.7 square feet (ft²) of river bottom.

The construction of the temporary work bridges will require the installation of steel H or pipe piles. About 6-10 piles may be driven each day. Based on data for past projects involving the impact driving of 30-in pipe piles, it will take up to 114 hammer strikes to install each pile resulting in up to 1,140 total strikes per day. It will take up to 20 days of impact driving to install up to 120 in-water temporary bridge piles. The temporary bridge pipe piles will temporarily displace up to 589 ft² of river bottom.

Pile Installation

Pile type	ile type Number of Piles		Confined Space or		
		Method	Open Water		
Steel pipe piles	10 in the river	Impact	Open water		
(36-in diameter)		hammer			
Steel H piles or 30-in	Up to 120 in the river	Impact	Open water		
diameter steel pipe piles		hammer			

Construction Conditions

The contractor will comply with NCDOT's Best Management Practices. The NCDOT has agreed to provide an additional measure of protection by requiring in-water construction activities to stop if a sturgeon is spotted within 50 ft of operations. No in-water work will be allowed in the Tar River between February 15 and June 30 based on the NCWRC's designation of this portion of the Tar River as an Inland Primary Nursery Area for juvenile anadromous fish. The NCWRC's principal concern is preventing the potential disruption of shad and herring spawning in the river, but the February 15-June 30 moratorium period would also protect a

spring spawning run by Atlantic sturgeon and the resulting downstream movement of larval and small juvenile sturgeon shortly thereafter. An additional in-water work moratorium will start on August 15 and end on October 31 to prevent the disruption of a possible fall spawning migration by Atlantic sturgeon and the subsequent downstream movement of larval and small juvenile sturgeon produced by the spawning event. Because of the lack of data on Atlantic sturgeon in the Tar River, NMFS is basing the in-water work moratoria on data from other river systems in the southeast, including the Roanoke River in North Carolina, where Atlantic sturgeon are known to spawn. All in-water work done during the allowed time periods (i.e., November 1-February 14 and July 1-August 14) will occur during daytime hours only.

Before the start of each day's full-force, in-water impact driving of piles (during the available inwater work windows), some form of low-level in-water noise will be generated that is loud enough to cause Atlantic sturgeon to leave the project area, but not loud enough to cause harm to the sturgeon (options include ramp-up, dry firing, or airguns). The low-level noise technique would be conducted for 5-10 minutes prior to full-force impact pile driving to allow animals the opportunity to leave the area. The chosen technique would be done before the beginning of the day's in-water impact driving, but would need to be repeated if a break in impact pile driving lasted more than 1 hour. Ramp-up involves slowly increasing the power of the impact hammer, and the noise it produces, over a pre-determined period of time. Dry-firing involves the raising and dropping of the impact hammer, but without any compression on the piston. Airguns are devices that produce in-water noise when they rapidly release pressurized air into the water column. The amount of noise produced by an airgun can be controlled based on pressure of the air that is released (i.e., higher air pressures produce louder noises).

Effects Determinations for Species the Action Agency or NMFS Believes May Be Affected by the Proposed Action

Species	ESA Listing Status	Action Agency Effect Determination	Determination							
Fish										
Atlantic sturgeon (Carolina DPS)	Е	NLAA	NLAA							
E = endangered; NLAA = may affect, not likely to adversely affect										

Critical Habitat

The project is located in Atlantic sturgeon critical habitat Carolina Unit 2 (Tar-Pamlico Unit). The physical and biological features (PBFs) of the critical habitat are described in the table below. We believe the proposed action may affect the salinity gradient and soft substrate, unobstructed water of appropriate depth, and water quality PBFs.

Atlantic Sturgeon Critical Habitat PBFs and their Purpose/Function									
	PBF	Purpose/Role of PBF							
Hard Substrate (PBF 1)	Hard bottom substrate (e.g., rock, cobble, gravel, limestone, boulder, etc.) in low salinity waters (i.e., 0.0-0.5 parts per thousand range)	Necessary for settlement of fertilized eggs, refuge, growth, and development of early life stages							
Salinity Gradient and Soft Substrate (PBF 2)	Aquatic habitat with a gradual downstream salinity gradient of 0.5 up to as high as 30 parts per thousand and soft substrate (e.g., sand, mud) between the river mouth and spawning sites	Necessary for juvenile foraging and physiological development							
Unobstructe d Water of Appropriate Depth (PBF 3)	Water of appropriate depth and absent physical barriers to passage (e.g., locks, dams, thermal plumes, turbidity, sound, reservoirs, gear, etc.) between the river mouth and spawning sites	 Necessary to support: Unimpeded movement of adults to and from spawning sites; Seasonal and physiologically-dependent movement of juvenile Atlantic sturgeon to appropriate salinity zones within the river estuary; and Staging, resting, or holding of subadults or spawning condition adults. Water depths in main river channels must also be deep enough (at least 1.2 meters) to ensure continuous flow in the main channel at all times when any sturgeon life stage would be in the river 							
Water Quality (PBF 4)	Water quality conditions, especially in the bottom meter of the water column, with the appropriate combination of temperature and oxygen values	 Necessary to support: Spawning; Annual and inter-annual adult, subadult, larval, and juvenile survival; and Larval, juvenile, and subadult growth, development, and recruitment. Appropriate temperature and oxygen values will vary interdependently, and depending on salinity in a particular habitat. For example, 6.0 mg/L dissolved oxygen or greater likely supports juvenile rearing habitat, whereas dissolved oxygen less than 5.0 mg/L for longer than 30 days is less likely to support rearing when water temperature is greater than 25°C. In temperatures greater than 26°C, dissolved oxygen greater than 4.3 mg/L is needed to protect survival and growth. Temperatures of 13 to 26 °C likely to support spawning habitat. 							

Analysis of Potential Routes of Effects to Species

Atlantic sturgeon may be affected by (1) the potential risk of injury from direct impact by construction machinery and associated in-water activities (e.g., crane and impact hammer operations), (2) the risk of exposure to noise or turbidity from in-water demolition and construction activities, (3) the effects of temporarily avoiding the project site due to construction activities, and (4) noise related to in-water pile driving. We believe these effects are discountable due to the complete moratorium on in-water work from February 15-June 30 and August 15-October 31. Because of the moratoria, Atlantic sturgeon (adult, larval, and small juvenile sturgeon) will not be exposed to the risk of injury because they are extremely unlikely to be in the action area.

The permanent installation of 10 in-water steel pipe piles (36-in diameter) will result in the permanent loss of 70.7 ft² of unvegetated river bottom (i.e., course sand and pebbles) where sturgeon might forage for invertebrate prey. In addition, up to 589 ft² of river bottom will be temporarily displaced by the piles (up to 30-in diameter) installed for the temporary work bridges. We believe the effects on sturgeon caused by the loss of river bottom due to this project will be insignificant. Because sturgeon are opportunistic feeders and forage over large areas, they would be able to locate prey beyond the immediate area of the piles. The temporary work bridge piles will be removed once the new bridge is built and demolition of the old bridge is completed. Additionally, 440 ft² of river bottom will be once again made available for use by sturgeon when the old bridge's substructural elements (i.e., piles) are removed during the demolition process. Invertebrates, which are prey for Atlantic sturgeon, will quickly recolonize this river bottom upon removal of these substructures.

Analysis of Potential Routes of Effect to Critical Habitat

The project may affect aquatic habitat with a gradual salinity gradient and soft substrate (PBF 2) by covering soft substrate with new bridge piles and temporary work bridge piles. However, we believe this effect to PBF 2 will be insignificant. The soft substrate in the river bottom surrounding the bridge piles will continue to support juvenile foraging and development. Similarly, once the temporary work bridge piles are removed those areas of soft substrate will immediately become accessible again as foraging or developmental habitat. Also, more soft substrate will become available when the old bridge's substructural elements are removed from the river bottom during demolition. The project's demolition and construction activities will have no effect on the salinity gradient in the project area.

Unobstructed water of appropriate depth (PBF 3) that supports staging, resting, holding, or movement of various life stages of Atlantic sturgeon may be affected by the installation of steel piles. We believe the obstructions created by the installation of piles will have an insignificant effect on PBF 3 because the new bridge will have fewer supports (i.e., structures in the water) than the existing bridge. Additionally, the temporary work bridge piles and permanent new bridge piles will only affect small portions of the main channel. The temporary work bridge piles will be removed at the end of the project's construction and demolition activities, and the old bridge's in-water piles will be removed as part of the demolition process. The project's demolition and construction activities will have no effect on the water depth in the project area.

Water quality (PBF 4) supporting important life functions, such as growth and reproduction, of various life stages of Atlantic sturgeon may be affected by temporary and highly localized turbidity and associated effects on suitable water temperature and oxygen values caused during installation of piles for the temporary work bridges and the new bridge, and demolition activities. However, we believe the effects to PBF 4 will be discountable because all work will be completed from November 1-February 14 and July 1-August 14, to prevent adult, larval, and small juvenile sturgeon from being exposed to elevated turbidity levels during times of the year when they might be present in the project area.

Conclusion

Because all potential project effects to listed species were found to be discountable, insignificant, or beneficial, we conclude that the proposed action is not likely to adversely affect listed species

under NMFS's purview. This concludes your consultation responsibilities under the ESA for species under NMFS's purview. Consultation must be reinitiated if a take occurs or new information reveals effects of the action not previously considered, or if the identified action is subsequently modified in a manner that causes an effect to the listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed or critical habitat designated that may be affected by the identified action. NMFS's findings on the project's potential effects are based on the project description in this response. Any changes to the proposed action may negate the findings of this consultation and may require reinitiation of consultation with NMFS.

We have enclosed additional relevant information for your review. We look forward to further cooperation with you on other projects to ensure the conservation of our threatened and endangered marine species and designated critical habitat. If you have any questions regarding this consultation, please contact Dr. Dave Rydene, Consultation Biologist, at (727) 824-5379, or by email at David.Rydene@noaa.gov.

Sincerely,

Roy E. Crabtree, Ph.D. Regional Administrator

Enc.: 1. PCTS Access and Additional Considerations for ESA Section 7 Consultations

(Revised March 10, 2015)

File: 1514-22.L.1



North Carolina Department of Cultural Resources

State Historic Preservation Office

Peter B. Sandbeck, Administrator

Beverly Eaves Perdue, Governor Linda A. Carlisle, Secretary Jeffrey J. Crow, Deputy Secretary Office of Archives and History Division of Historical Resources David Brook, Director

January 26, 2009

MEMORANDUM

TO:

Hank Schwab, Project Engineer Project Development, Bridge Unit

NCDOT Division of Highways

FROM:

Peter Sandbeck

Petr B Sandbuh

SUBJECT:

Bridge 28 on NC 42 over the Tar River, B-4932, Edgecombe County, ER 08-2590

Thank you for sending information on the proposed bridge replacement.

Our files find two archaeological sites in the project area: 31ED62, a prehistoric site on the southwest side of the bridge represented by lithics and ceramics; and 0019TRR, the submerged remains of a steamboat. It is situated on the downstream side of the bridge, west side of the river, and parallel to the river bank. It has been reported in, "Enigma of the Old Sparta Vessel, the Phase II Pre-disturbance Archaeological Survey of a Tar River Steamboat," by Bradley A. Rogers, Theresa R. Hicks, and Elizabeth Wyllie of the Program in Maritime Studies at East Carolina University. While 0019TRR is considered eligible for the Register, 31ED62 has not been assessed to evaluate its significance for the National Register of Historic Places.

We, therefore, recommend an archaeological survey of the proposed replacement to include the relocation and evaluation of 31ED62. Potential effects on unknown resources must be assessed prior to the initiation of construction activities. Care should be taken to avoid any effects to 0019TRR. If this is not possible, appropriate mitigation will be needed.

Rodgers, et al. recommended full excavation of the steamboat, and suggest it may be accomplished in the summer or fall of 2009. This plan, however, is dependent upon finances and a place and means for conservation. If such are found, and dependent upon the DOT's schedule, it is possible that 0019TRR may have been excavated prior to Bridge 28's replacement. Please keep us closely updated on the progress of plans for this bridge.

Because the area under the bridge has been well examined, no new investigation there is warranted. If, however, a new alignment should put the replacement at least 250 m to the north, we recommend underwater investigation as well as terrestrial. In this area is the remnant of the former bridge, which likely dates to the 19th century.

Two copies of the resulting archaeological survey report, as well as one copy of the appropriate site forms, should be forwarded to us for review and comment as soon as they are available and well in advance of any construction activities.

We have determined that the project as proposed will not have an effect on any historic structures.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/807-6579. In all future communication concerning this project, please cite the above referenced tracking number.

cc: Matt Wilkerson, NCDOT Mary Pope Furr, NCDOT



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 20, 2010

Mr. Peter Sandbeck Deputy SHPO Historic Preservation Office Dept. of Cultural Resources 4617 Mail Service Center Raleigh, North Carolina 27699-46517

Dear Mr. Sandbeck:

Subject:

Archaeological Survey and Evaluation: Replacement of Bridge No. 28 on NC42 over the Tar River, Edgecombe County, B-4932, Federal Aid Project No. BRSTP-0042(19), State Project No. 40137.1.1, ER 08-2590.

Enclosed are two copies of the final report prepared by our staff after completing the archaeological evaluation of the referenced project. This work was conducted in compliance with Section 106 of the National Historic Preservation Act of 1966, as amended, and the guidelines issued by the Advisory Council on Historic Preservation. The survey identified two archaeological sites and revisited two previously recorded sites.

0019TRR/Old Sparta Vessel consists of the submerged wooden remains of a large watercraft lying immediately proximal to the west bank of the Tar River within the project APE. This resource is recommended eligible for the NRHP under criterion A based on its strong association with events that made a significant contribution to the broad patterns of local and regional history and under criterion D for the resources ability to yield information significant to historic, scientific, or scholarly research. Avoidance of this resource is recommended.

31ED62/62** is a surface/subsurface, prehistoric-historic archaeological site situated within the uplands of the two western project quadrants. Definitive components identified at the site include Middle Archaic, Woodland, and 19-20th century historic. The site possesses an insignificant range of characteristics relative to regional research questions, is unlikely to contain intact sub-plowzone patterned artifact distributions or significant cultural features within the construction footprint, and lacks attributes essential in establishing site integrity. As such, the portion of 31ED62/62** delineated and defined by the survey is considered ineligible for listing on the NRHP under criterion D. The cemetery section of the archaeological site within the northwest project quadrant containing the Rosa Tompkins gravesite and any additional unmarked gravesites should be preserved by avoidance. If construction is scheduled to occur in proximity to the cemetery, monitoring to insure the integrity of the gravesites is advocated. If avoidance is not possible, we request that the Office of State Archaeology make the determination as to how the relocation and removal of the gravesite(s) be treated, i.e. by following either NC General Statute 70, Article 3 or NC General Statute 65.

31ED372 is a low density, subsurface lithic scatter of undetermined age and cultural affiliation. The site is situated approximately 200ft. south of NC42 within the southwest project quadrant, and therefore, is unlikely to be affected by the construction effort as proposed. The site is unlikely to contain intact cultural features, deposits, or undisturbed patterned artifact concentrations. As such, the site is recommended not eligible for listing on the NRHP under criterion D. No further archaeological work is advocated for this resource.

31ED373 is a subsurface prehistoric site containing a Woodland period ceramic-lithic component. This diminutive site located within the northeast quadrant lacks attributes essential for establishing integrity, preservation, uniqueness, and relevance. **31ED373** is recommended not eligible for listing on the NRHP under criterion D. No further work is advocated for this archaeological resource.

MAILING ADDRESS: NC DEPARTMENT OF TRANSPORTATION HUMAN ENVIRONMENT UNIT 1598 MAIL SERVICE CENTER RALEIGH NC, 27699-1598 TELEPHONE: 919-431-2000 FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

LOCATION:
PROJECT DEVELOPMENT &
ENVIRONMENTAL ANALYSIS BRANCH ENVIRONMENTAL RESOURCE CENTER
4701-116 ATLANTIC AVENUE
RALEIGH NC, 27604

The report concludes that the project, as proposed, will impact one NRHP eligible archaeological/underwater site within the APE and one historic cemetery within the northwest quadrant.

Any questions regarding the report findings should be directed to Scott Halvorsen at (919) 431-1590.

Matt Wilkerson

Archaeology Supervisor Human Environment Unit

MW/sh

Enclosures (2 copies of the report)

cc: Brenna Poole, NCDOT project engineer Ron Lucas, FHwA



North Carolina Department of Cultural Resources

State Historic Preservation Office

Peter B. Sandbeck, Administrator

Beverly Eaves Perdue, Governor Linda A. Carlisle, Secretary Jeffrey J. Crow, Deputy Secretary Office of Archives and History Division of Historical Resources David Brook, Director

June 18, 2010

MEMORANDUM

TO:

Matt Wilkerson

Office of Human Environment NCDOT Division of Highways

FROM:

Peter Sandbeck Officer Peter Sandbeck

SUBJECT:

Archaeological Survey and Evaluation, Bridge 28 on NC 42 over the Tar River, B-4932,

Edgecombe County, ER 08-2590

Thank you for your letter of May 20, 2010, forwarding copies of the final report by Scott Halvorsen for the above project.

During the course of the survey, Mr. Halvorsen revisited two sites, 0019TRR/Old Sparta Vessel and 31ED62&62**, and recorded two sites, 31ED372 and 31ED373.

The following properties are determined not eligible for listing in the National Register of Historic Places:

Sites 31ED372 and 31ED373; lack attributes necessary for establishing integrity, preservation, uniqueness, and relevance

We concur with the recommendations for no further work at 31ED372 and 31ED373.

The portion of 31ED62&62** as delineated and defined by the survey does not provide information pertinent to regional research questions, is unlikely to contain intact subsurface features, and lacks integrity

No further archaeological investigation is recommended at that portion of 31ED62&62** as delineated and defined by the present survey. While 31ED62&62** contains the remains of one identified gravesite, that of Rosa Tompkins, and is believed to contain at least two more, this 'graveyard' component of the site (situated within its northwest quadrant) is likewise ineligible for the National Register of Historic Places. However, it must be protected.

We agree with the report's recommendation for its preservation by avoidance. Should avoidance be impossible, we recommend delineation of the cemetery—comprised of the Rosa Tompkins gravesite and the burials believed to be in its vicinity— to ascertain both its size and probable number of interments, followed by the cemetery's removal and relocation in accordance with NC General Statute 65.

For purposes of compliance with Section 106 of the National Historic Preservation Act, we concur that the following property is eligible for the National Register of Historic Places under the criteria cited:

0019TRR/Old Sparta Vessel under criteria A and D; A for its association with events making a significant contribution to the broad patterns of local and regional history; D for its ability to yield information significant to historic, scientific, or scholarly research

We also concur with the recommendation that the vessel be avoided during construction. To accomplish this, the site should be defined, visually marked, and the contractors informed that they are not to enter the area with any equipment or personnel. Placing sand on the wreck may actually endanger the integrity of the structure and is not recommended.

The most effective way to avoid the wreck with new construction would be to position the new bridge north (upstream) of the old one. In the event that the bridge must run along the same footprint as the old one, extreme care will be needed on the part of the contractor to avoid the upstream portion of the wreck during construction.

The removal of the old bridge structure requires special care. Temporary alteration of the river bottom topography by the removal of the pilings immediately upstream of the wreck may cause erosion of the supporting sediment beneath the wreck, possibly damaging the wreck's structure and integrity.

We concur that in the event the wreck cannot be avoided additional data recovery and possible recovery of all or part of the vessel will be warranted.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, please contact Renee Gledhill-Earley, environmental review coordinator, at 919/807-6579. In all future communication concerning this project, please cite the above referenced tracking number.

cc: Scott Halvorsen, NCDOT



North Carolina Department of Transportation



Highway Stormwa (Version 2.04; Released	HUM			High STORMV	way Stormw	ater Program IAGEMENT PLAN PROJECTS	on.					
WBS Element:	40137.1.1	TIP No.:	B-4932			Edgecombe				Page	1	of 2
				Gene	eral Project	Information						
WBS Element:		40137.1.1		TIP Number: B-	-4932	1	Project		Bridge Replacem		Date:	1/19/2017
NCDOT Contact:		Craig Freeman, P	E			Contractor / Desi			Wells, Jr. PE, PLS	, CPESC - St	ingate Des	ign Group
	Address	Hydraulics Unit					Address:	915 Jones	Franklin Road			
		1590 Mail Service						Raleigh, NC 27606				
		Raleigh, NC 2769	9-1590			+						
		(919) 707-6721						(919) 859-				
	Email	: cafreeman2@ncd							ingatedesign.com		1	
City/Town:			Old S	parta I		County(ies):	Edgec					
River Basin(s):		Tar-Pa	mlico T			CAMA County?	N	0	<u> </u>			
Wetlands within Pro	oject Limits?	Yes										
		0.54.1	A**I	1	Project Desc	Rural, Agricultural						
Project Length (lin.	innes or reet):	0.51 N	villes	Surrounding Lan	iu USe:	rtarai, Agriculturai			Eviction	a Cita		
Project Built Upon /	Aron (00.)		1.4	Proposed Project				1.7	Existin			
Project Built-Upon A Typical Cross Section		Paved 11' lanes w		aculder section	U.		Paved 12' lar		aved shoulder and	ac. 6' grassed sh	oulder sec	tion
,,,			g							• 9		
Annual Avg Daily Tr	affic (veh/hr/day):	Design/Future:	3	3180	Year:	2037	Existing:		2410		Ye	ar: 2017
(Description of Mini Quality Impacts)	mization of Water	associated with ro	adway runoff. T	oncrete Deck on Stee he run off from the de rap energy dissipators	ck drains will	be discharged onto	a class II ripra	p dissipator	pad. Additional m	easures, sucl	as the us	e of 3:1 side
					aterbody Inf		rmation					
Surface Water Body	/ (1):		Tar F	River		NCDWR Stream I				28-(80)		
NCDWR Surface Wa	ater Classification f	or Water Body	Nater Body Primary Classification:				_					_
Othor Stroom Class	ification			Supplemental Class	sincation:	Nutrient Sensitive	vvaters (NSW)					
Other Stream Class	mcation:											
mpairments: Aquatic T&E Specie	ne?		Comments:									
∖quatic T&E Specie NRTR Stream ID:	181		Comments:					Buffor D.	loo in Effort			ar-Pamlico
	das Channing W-+-	r Pody?	Voc	Deck Drains Discha	rae Over De	effor?	No		les in Effect: r Pads Provided in	Duffe-2		N/A
Deck Drains Discha	dge Spanning Water rge Over Water Bood de justification in the	ly?	Yes No			the General Projec			describe in the Gen			
(ii yes, provi	ae jusuneauon in the	General Floject Na	mauve)					L	2 - 7.101.	,	',	



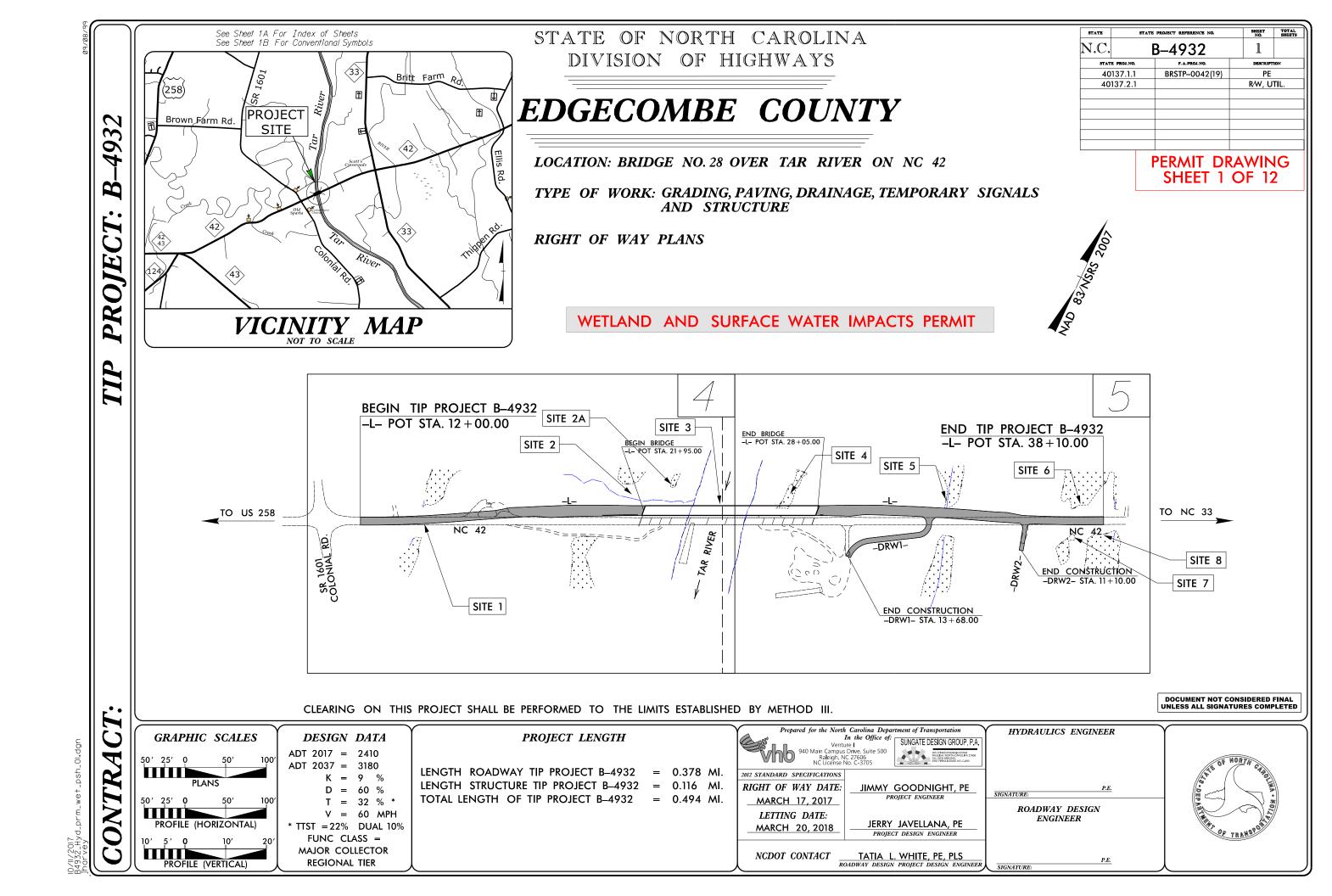
North Carolina Department of Transportation

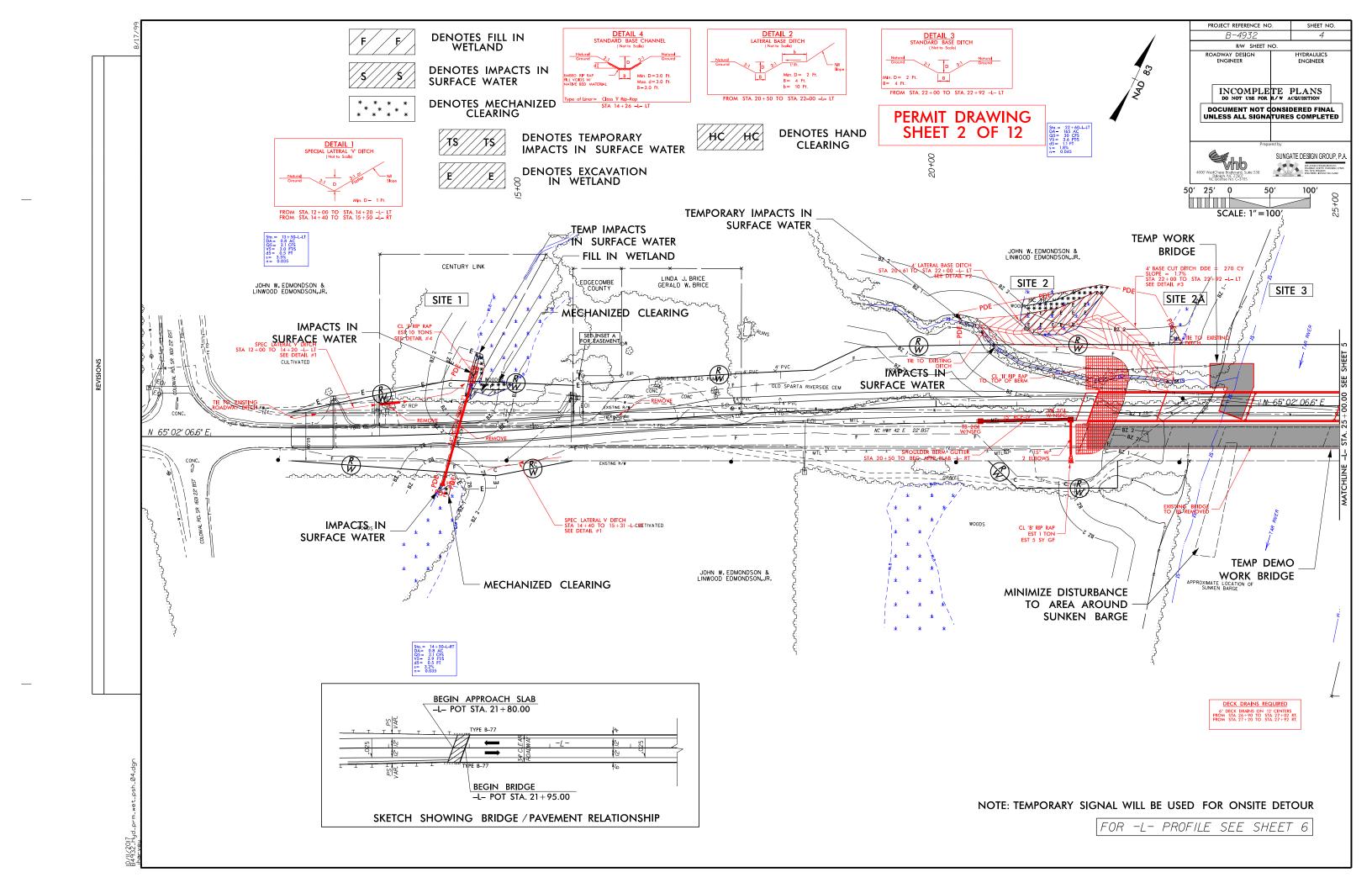
Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS

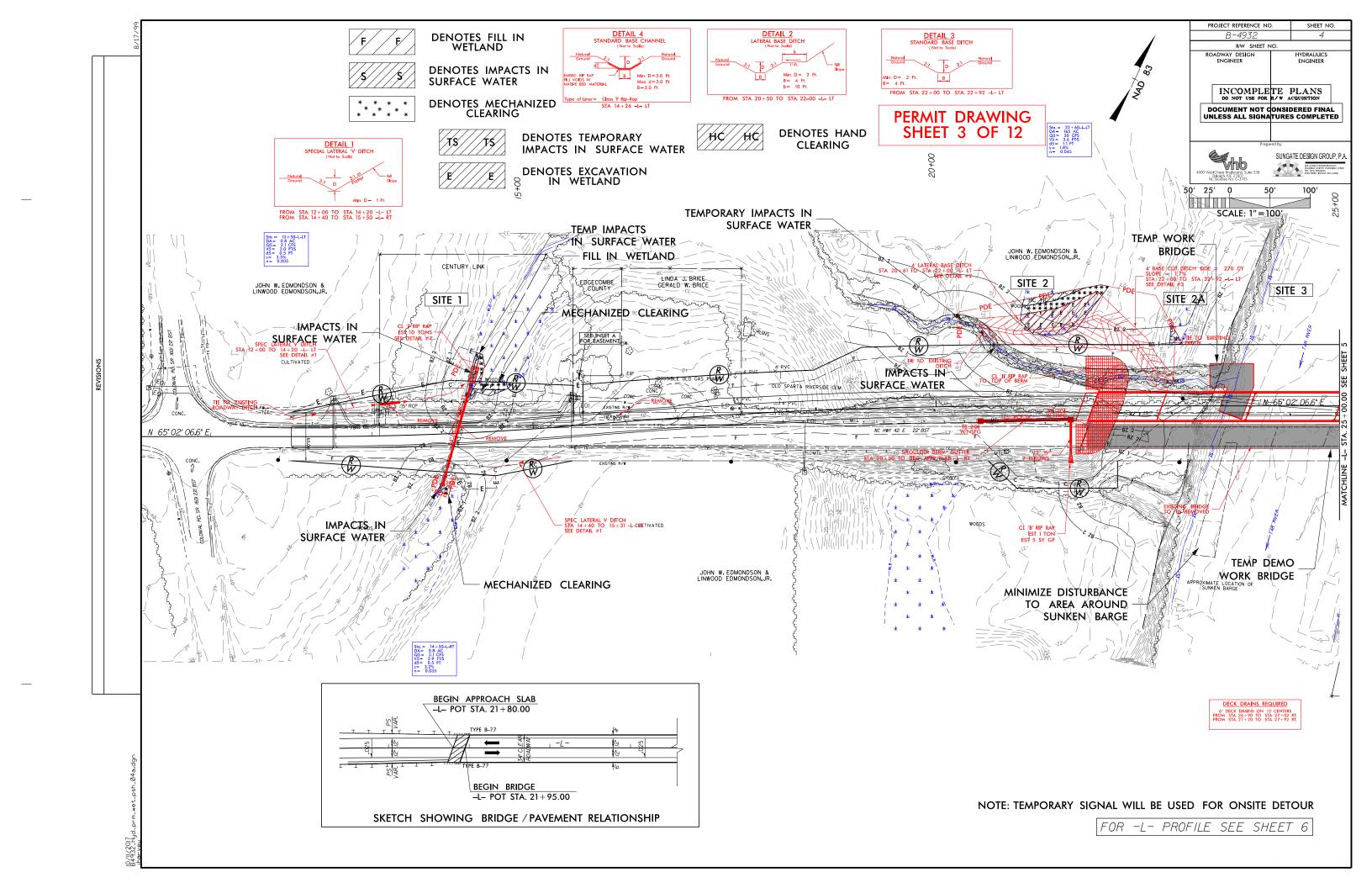
 WBS Element:
 40137.1.1
 TIP No.:
 B-4932
 County(ies): Edgecombe Page 2 of

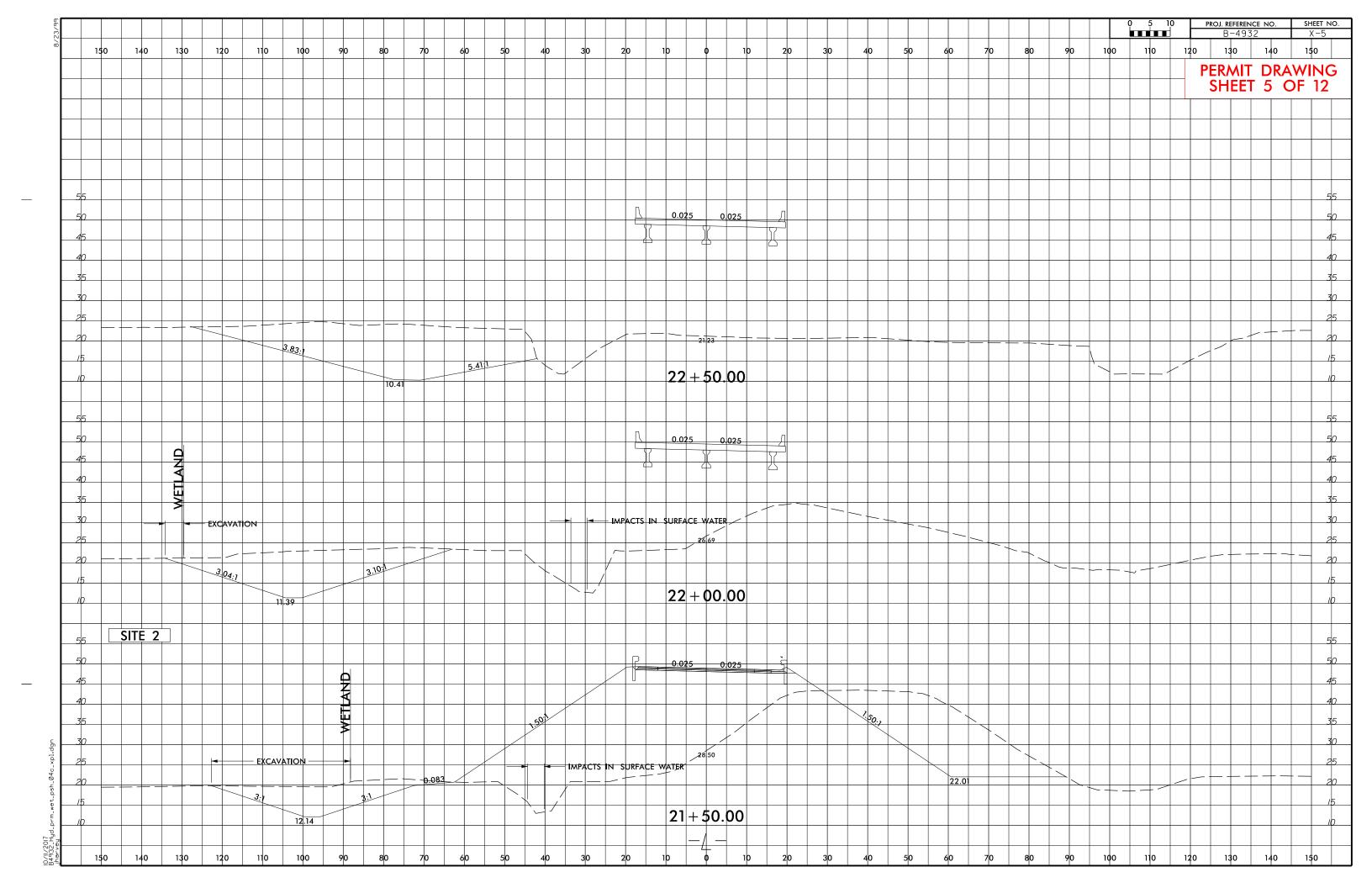
	Swales														
Sheet No.	Station & Coordinates (Road and Non Road Projects)	Surface Water Body	Base Width (ft)	Front Slope (H:1)	Back Slope (H:1)	Drainage Area (ac)	Recommended Treatm't Length (ft)	Actual Length (ft)	Longitudinal Slope (%)	Q2 (cfs)	V2 (fps)	Q10 (cfs)	V10 (fps)	Rock Checks Used	BMP Associated w/ Buffer Rules?
4	13+50 -L- Lt 2428885.7, 745375.7	(1)Tar River	0.0	3.0	3.0	0.8	80	150	3.50%	1.4	1.9	2.4	2.2	No	Yes
4	14+50 -L- Rt 2429019.6, 745334.9	(1)Tar River	0.0	3.0	3.0	0.8	80	200	3.20%	1.4	1.9	2.4	2.2	No	Yes

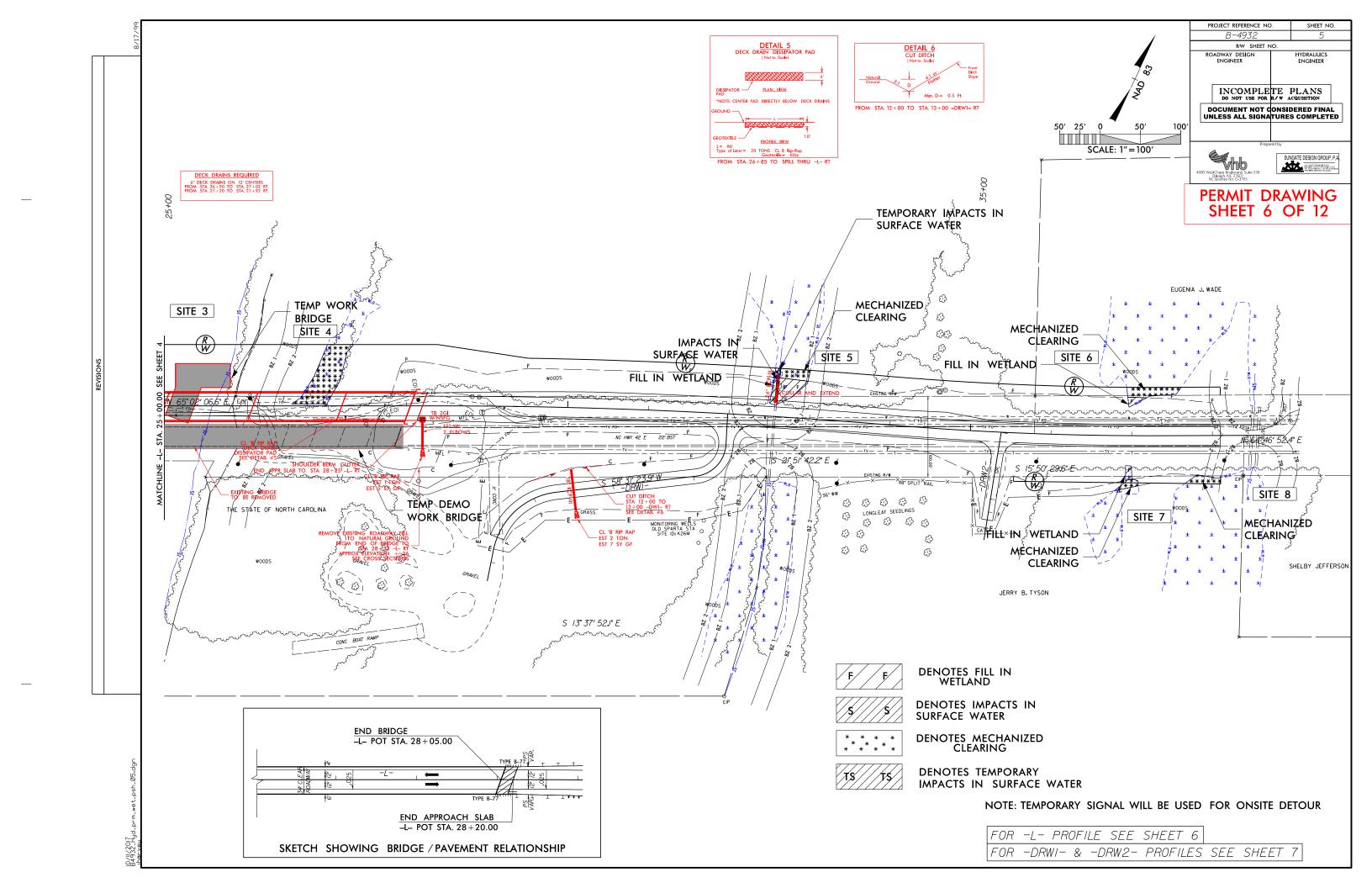
Additional Comments

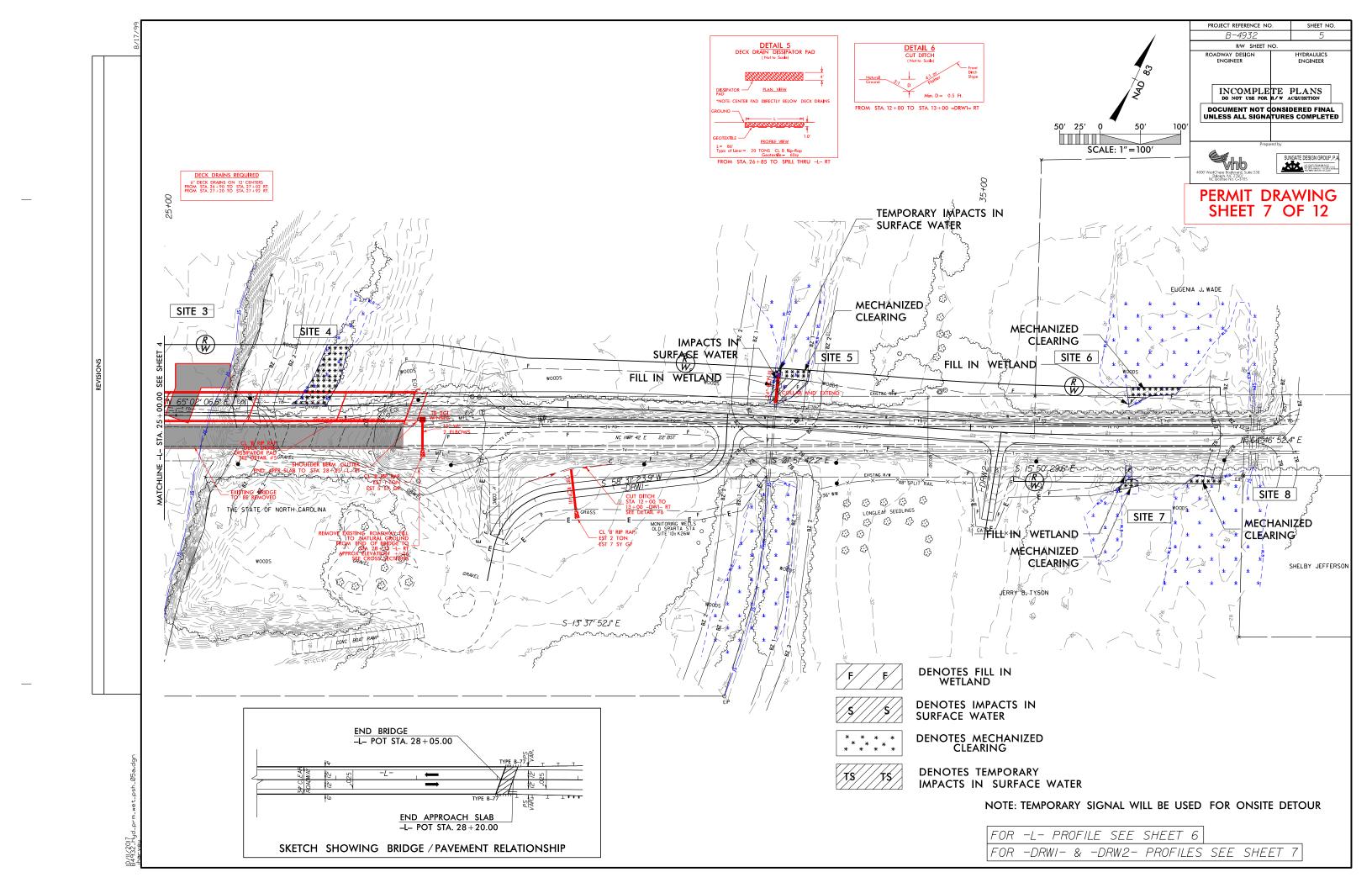


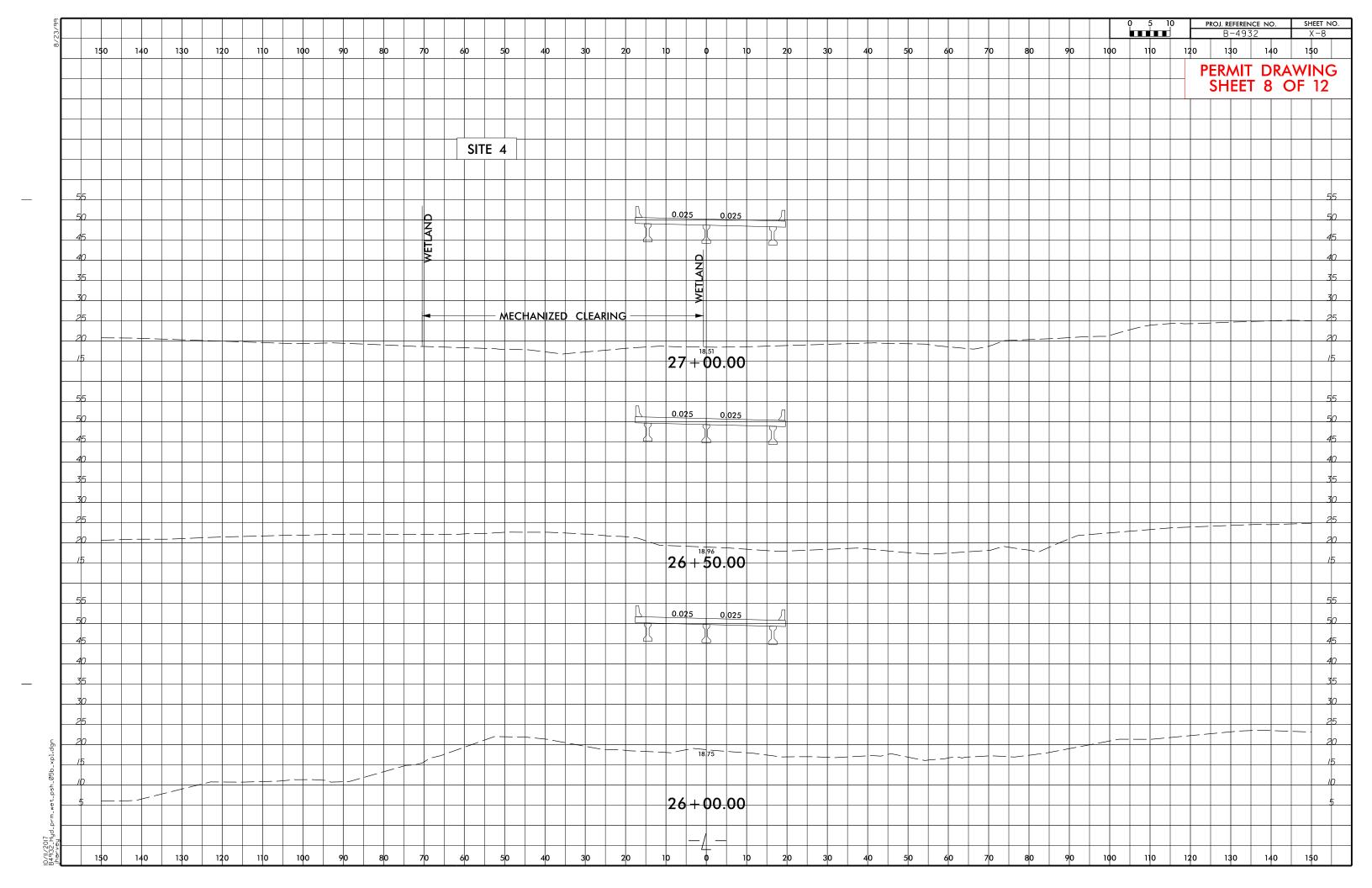


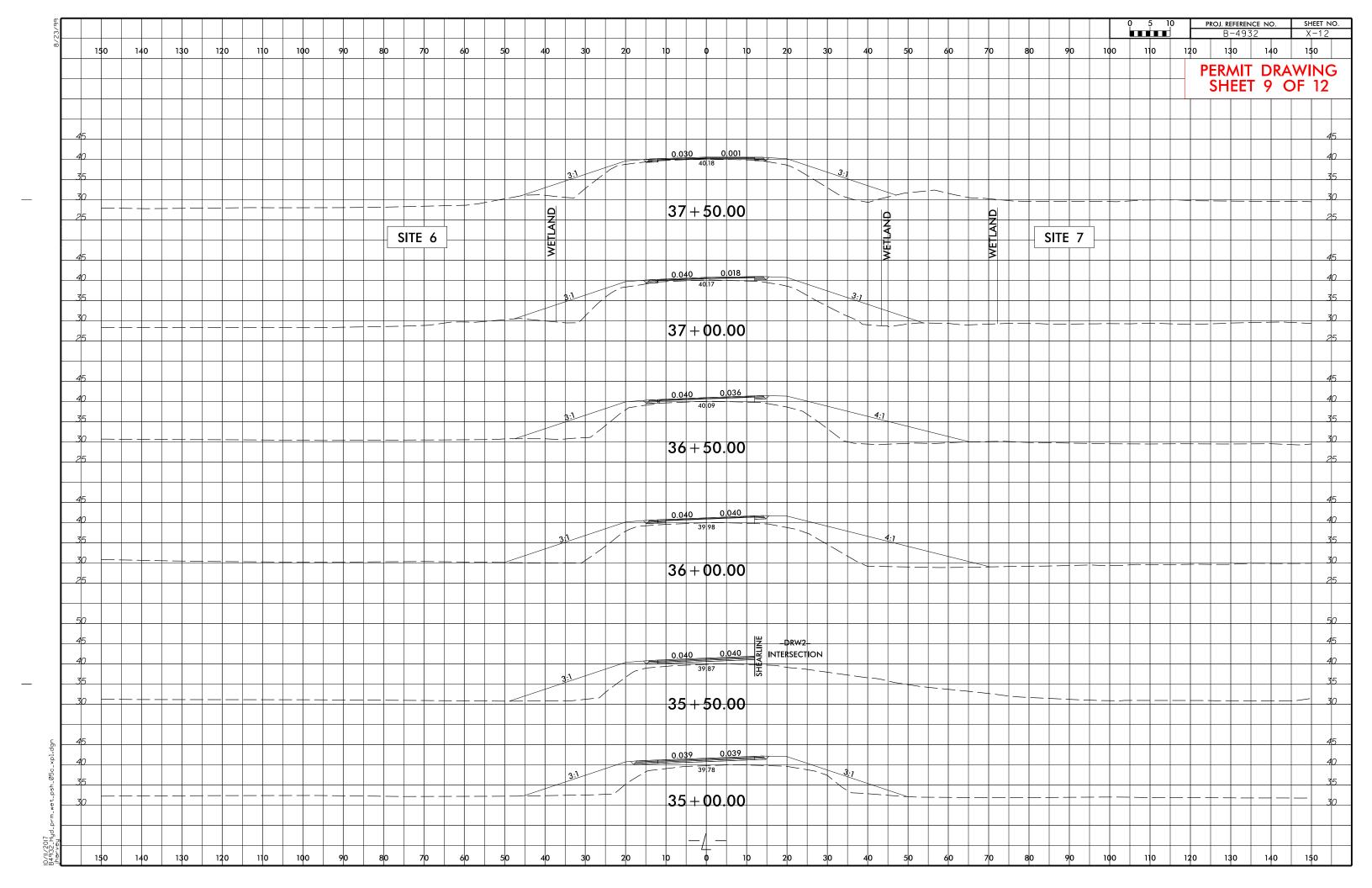


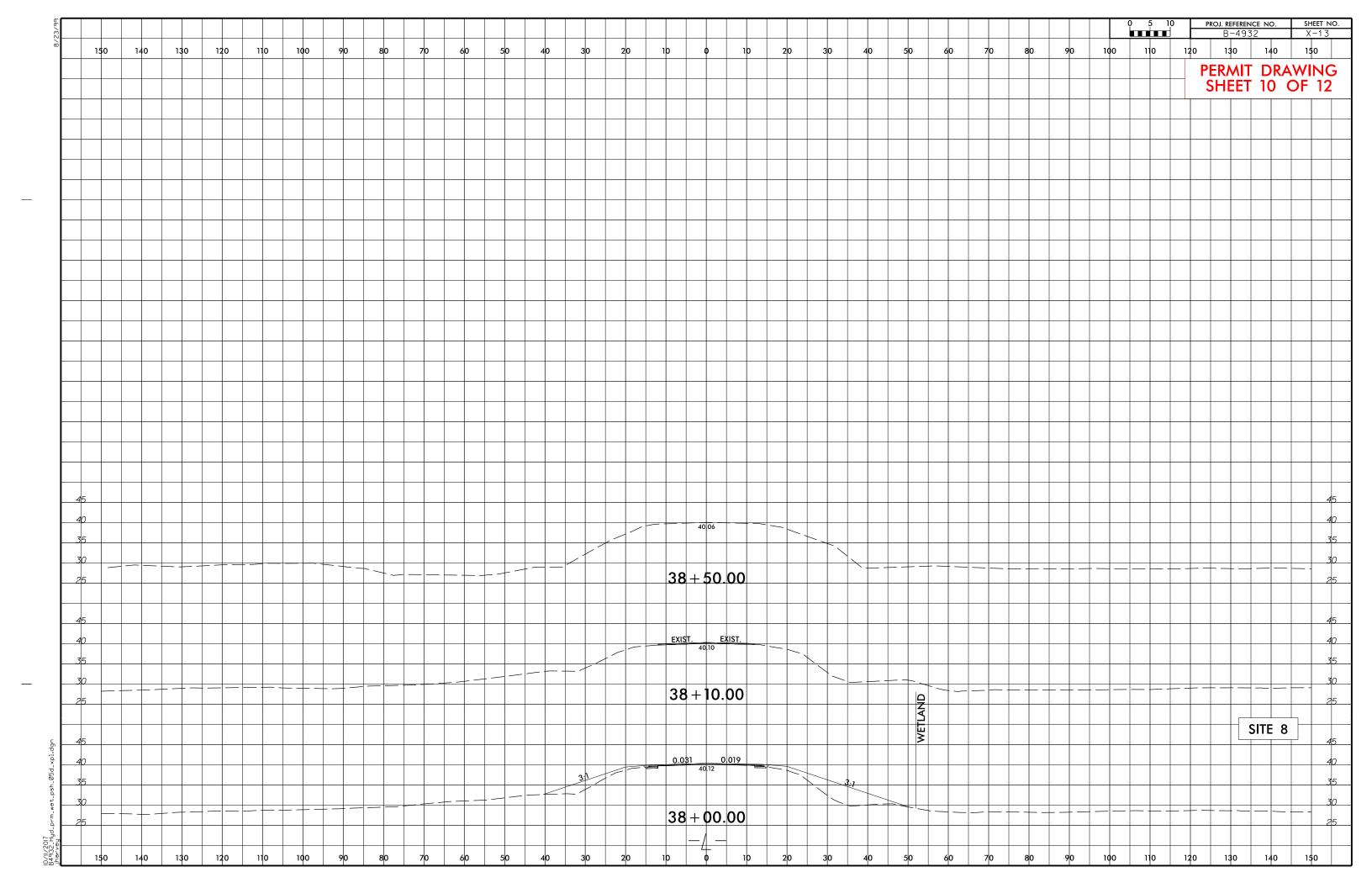


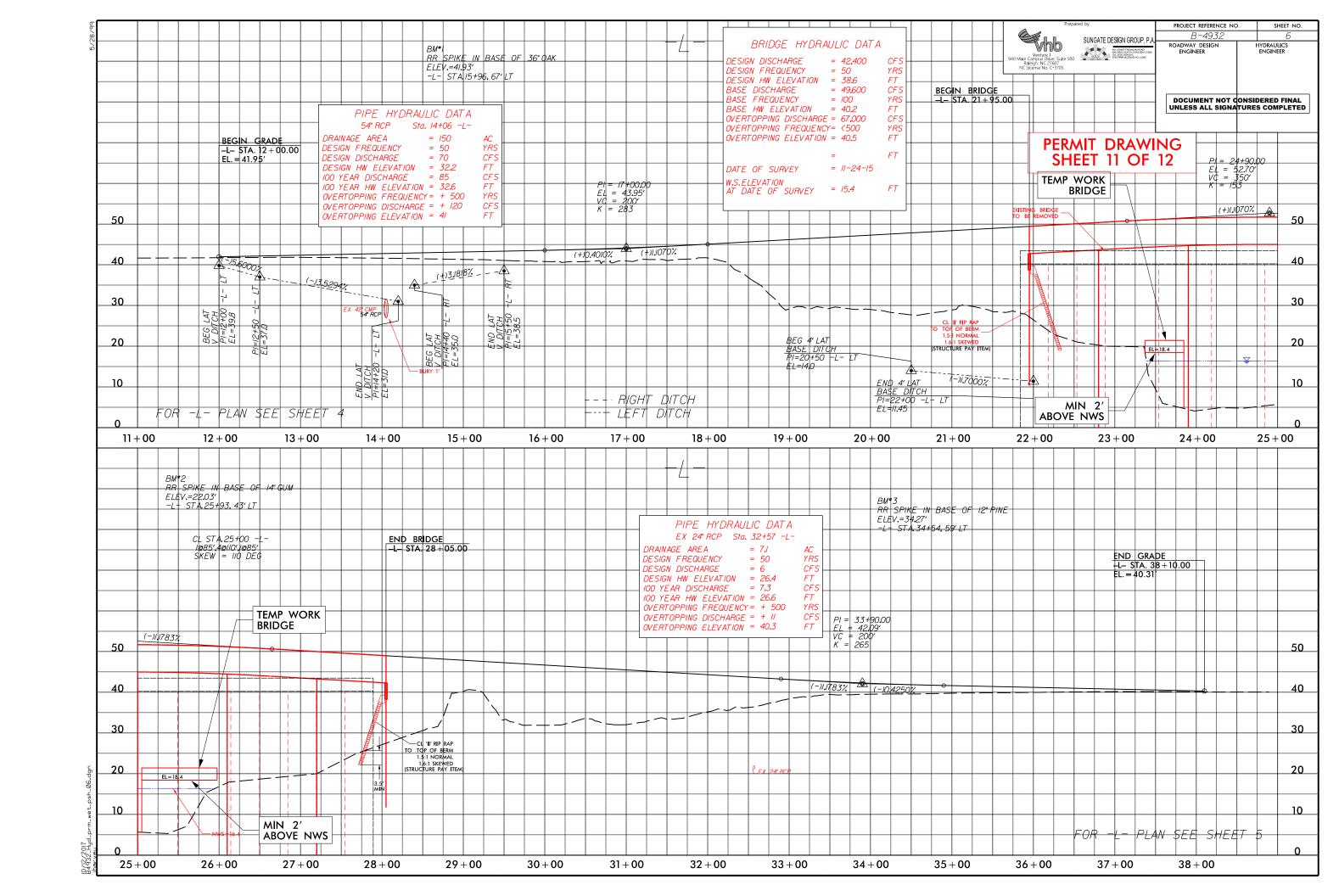












				WE	TLAND IMPA	ACTS			SURFA	CE WATER IN	IPACTS	
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	13+78 to 14+68 -L- RT LT	54" RCP	< 0.01	, ,	Ì	0.02	· · ·	< 0.01	< 0.01	48	17	
2	20+45 to 23+08 -L- LT	ROADSIDE DITCH			0.06	0.04		0.03	< 0.01	271	36	
2A	22+90 to 23+06 -L- LT	ROADSIDE DITCH					< 0.01					
3	21+95 to 28+05 -L-	TEMP CONST BRIDGE							< 0.01		-	
		TEMP DEMOLITION BRIDGE							< 0.01		-	1
		BRIDGE						< 0.01				
4	26+58 to 27+13 -L- LT	BRIDGE				0.05						
5	32+50 to 32+97 -L- LT	24" RCP	0.02			0.01		< 0.01	< 0.01	36	7	
6	36+94 to 37+58 -L- LT	ROADWAY FILL	< 0.01			0.02						
7	36+81 to 37+08 -L- RT	ROADWAY FILL	< 0.01			< 0.01						1
8	37+68 to 38+10 -L- RT	ROADWAY FILL				< 0.01						
OTALS*:			0.03		0.06	0.15	< 0.01	0.04	< 0.01	355	60	0

^{*}Rounded totals are sum of actual impacts

NOTES:

SITE 3:BRIDGE PERMANENT SURFACE WATER IMPACTS BASED ON 76 SF PER BENT (<.01 AC)
TEMPORARY WORK BRIDGE: TEMPORARY SURFACE WATER IMPACTS BASED ON 390 SF DUE TO BENTS
TEMPORARY DEMOLITION WORK BRIDGE: TEMPORARY SURFACE WATER IMPACTS BASED ON 240 SF DUE TO BENTS

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/09/17
EDGECOMBE
B-4932
40137.1.1
SHEET 12 OF 12

Revised September 2014

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols Farm **PROJECT** Brown Farm Rd. SITE 0 42 B IE VICINITY MAP

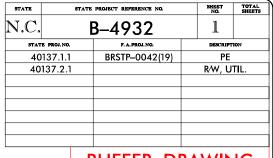
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

EDGECOMBE COUNTY

LOCATION: BRIDGE NO. 28 OVER TAR RIVER ON NC 42

TYPE OF WORK: GRADING, PAVING, DRAINAGE, TEMPORARY SIGNALS AND STRUCTURE

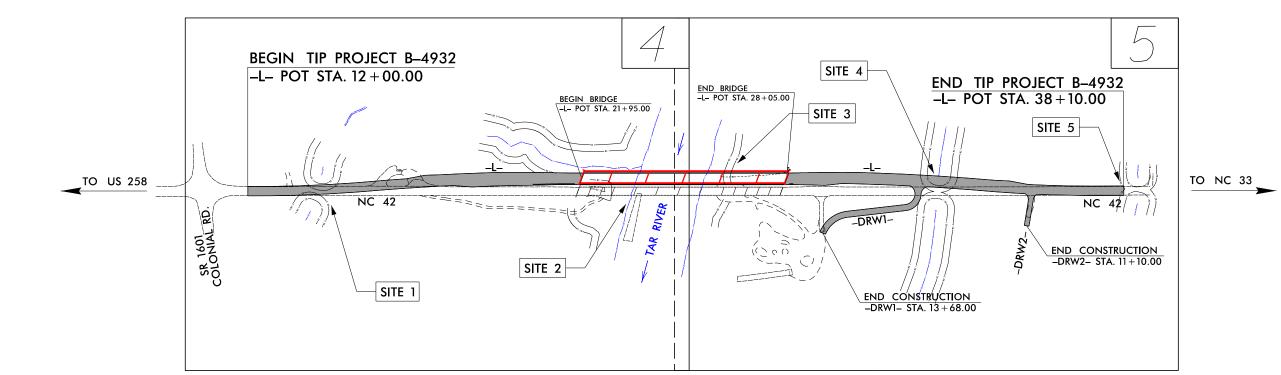
RIGHT OF WAY PLANS



BUFFER DRAWING SHEET 1 OF 5



BUFFER IMPACTS PERMIT



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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

50' 25' 0

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

GRAPHIC SCALES **DESIGN DATA** ADT 2017 = 2410ADT 2037 = 3180

K = 9 %D = 60 %T = 32 %V = 60 MPH

* TTST = 22% DUAL 10% FUNC CLASS = MAJOR COLLECTOR **REGIONAL TIER**

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4932 = 0.378 MI. LENGTH STRUCTURE TIP PROJECT B-4932 = 0.116 MI. TOTAL LENGTH OF TIP PROJECT B-4932 = 0.494 MI.

In the Office of: SUNGATE DESIGN GROUP, P.A. 940 Main Campus Drive, Suite 500 2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: JIMMY GOODNIGHT, PE MARCH 17, 2017 LETTING DATE: JERRY JAVELLANA, PE MARCH 20, 2018

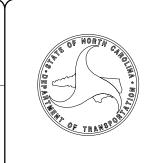
NCDOT CONTACT

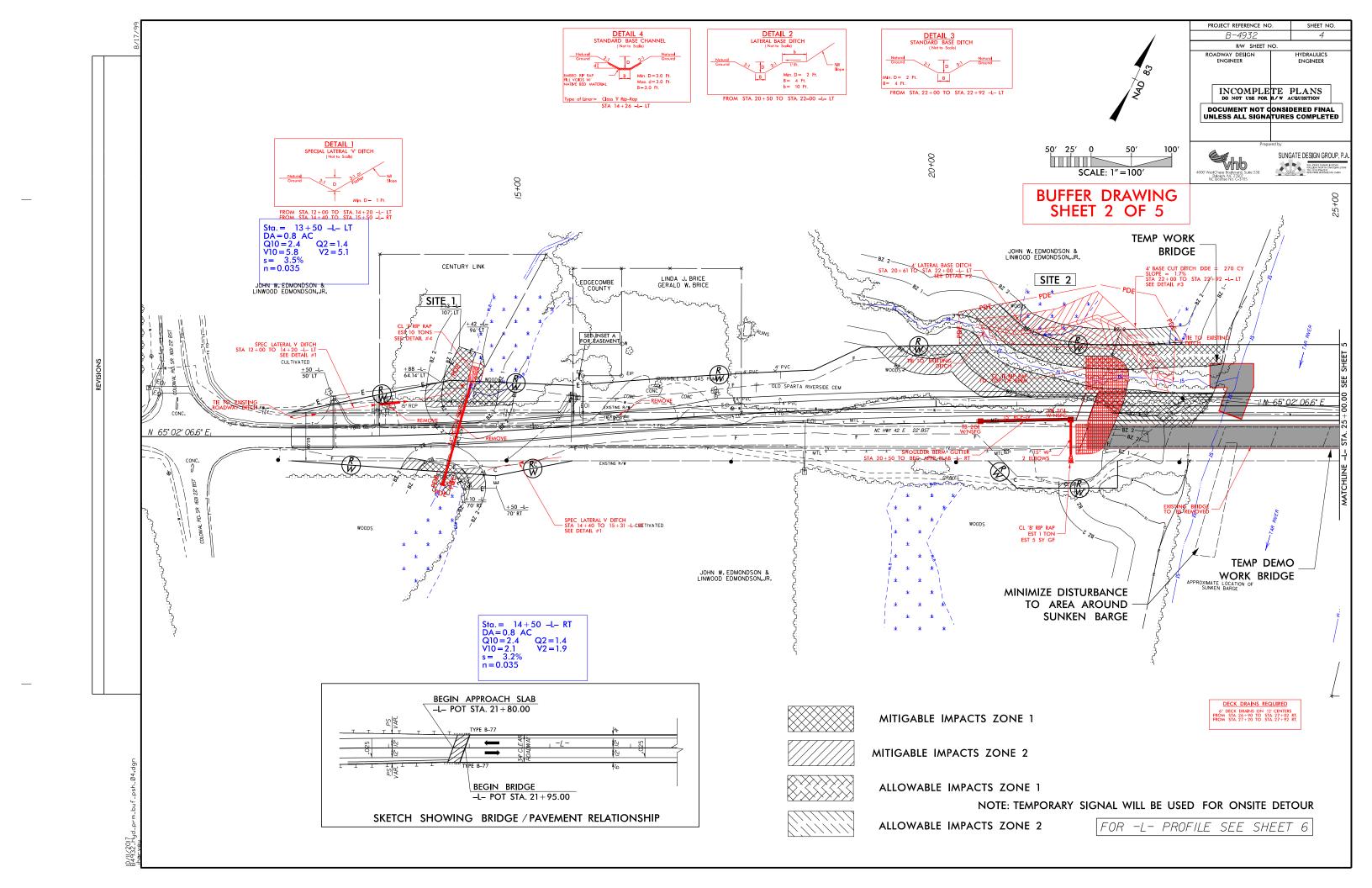
Prepared for the North Carolina Department of Transportation

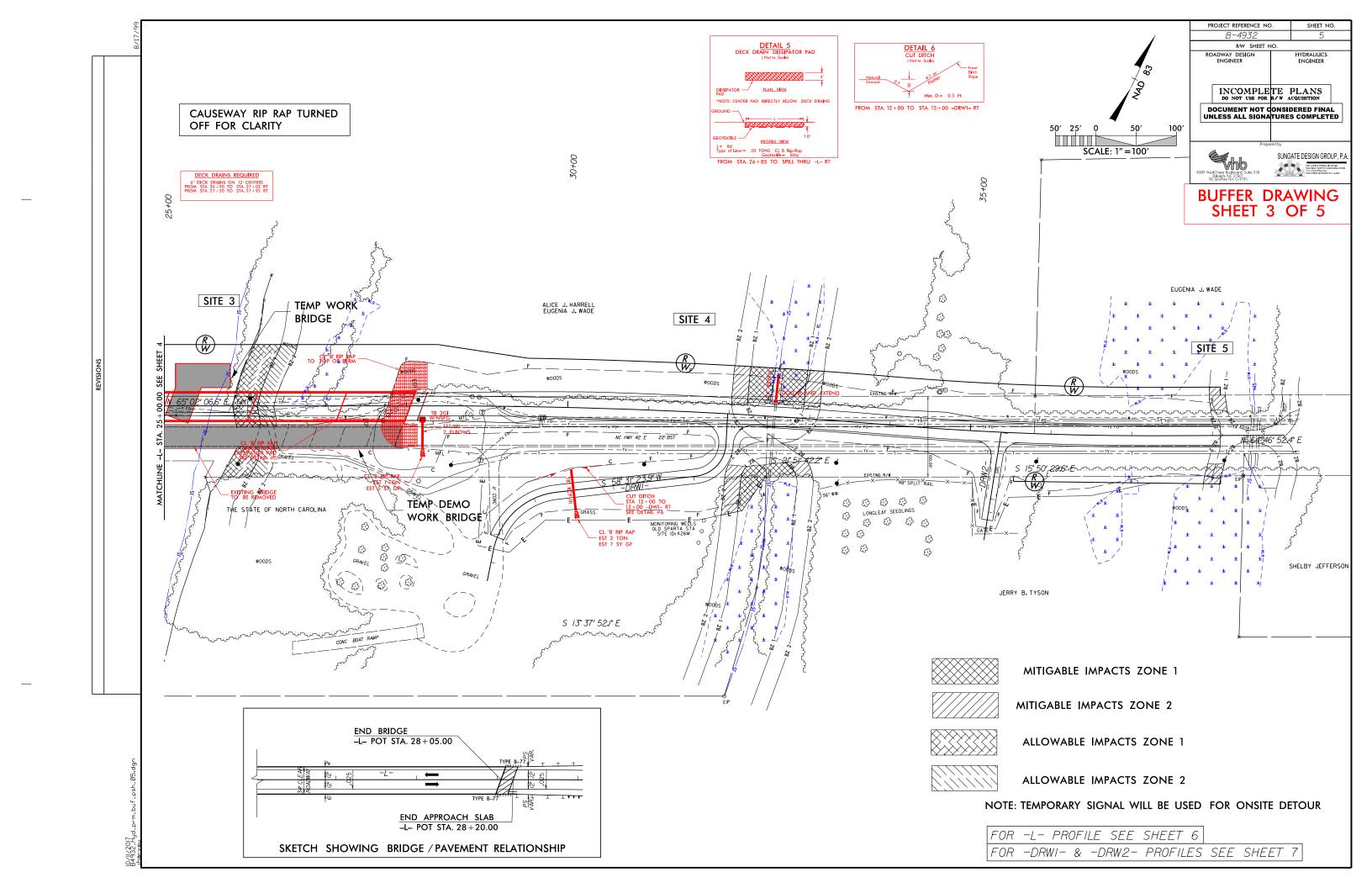
PROJECT DESIGN ENGINEER TATIA L. WHITE, PE, PLS
ROADWAY DESIGN PROJECT DESIGN ENGINEER

SIGNATURE: ROADWAY DESIGN **ENGINEER**

HYDRAULICS ENGINEER







		RIP	ARIAN	BUFF	ER IMI	PACT	S SUN	ИМАР	RY				
			IMPACT					BUFFER					
				TYPE		ALLOWABLE			MITIGABLE			REPLACEMENT	
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft ²)
1	54" RCP	13+38 to 14+78 -L-	Х					0	4286	2039	6325		
2	BRIDGE	19+24 to 23+43 -L-		Х				0	14469	6316	20785		
				Х		7205	2337	9542			0		
3	BRIDGE	25+85 to 26+63 -L-		Х		4468	2932	7400			0		
4	ROADWAY	32+02 to 33+12 -L-	Х					0	4367	3469	7836		
5	ROADWAY	37+89 to 38+19 -L-	Х					0		1022	1022		
TOTAL:						11673	5269	16942	23122	12846	35968	0.0	0.0

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
B-4932
EDGECOMBE COUNTY
PROJECT: 40137.1.1

DATE 04/07/17 SHEET 4 OF 5

WETLANDS IN BUFFER IMPACTS SUMMARY WETLANDS IN **BUFFERS** ZONE 1 ZONE 2 SITE NO. STATION (FROM/TO) (ft^2) (ft^2) 13+38 to 14+78 -L-720 136 2 19+24 to 23+43 -L-1312 32+02 to 33+12 -L-40 1033 5 37+89 to 38+19 -L-164 TOTAL: 1753 1652 N.C. DEPT. OF TRANSPORTATION **DIVISION OF HIGHWAYS** B-4932 **EDGECOMBE COUNTY** PROJECT: 40137.1.1 DATE 04/07/17

SHEET 5 OF 5



Transportation
Planning
Bridge/Structural
Civil/Site
Construction Observation
Surveying

Raleigh

Wilmington Surveying

Date: 25 October 2016

TIP Number: B-4932 County: Edgecombe

Description: Bridge #28 over Tar River on NC 42

B-4932 NEU Environmental Permit Narrative

This roadway project is located in the Tar-Pamlico River Basin. The adjacent area contains some delineated wetland areas.

Edgecombe County Public Utilities (Water)

The existing underground water main along the north side of NC 42 is in conflict with the proposed new bridge and must be relocated. Edgecombe County Public Utilities will install new valves at the beginning and end of the project limits to allow the existing water main to be isolated and abandoned. A new water main will be installed along the south side of the new bridge after the project is complete. The new water main will be bored under the Tar River to eliminate impacts to the river and buffer zones. The path of the proposed water main will follow the current alignment of NC 42 inside the existing ROW and will not create any wetland impacts.

Edgecombe Martin EMC (Power)

The existing overhead power lines the cross the Tar River will remain in place. There will be no environmental impacts from power.

CenturyLink (Telephone)

The existing underground telephone cables along the north side of the NC 42 are in conflict with the proposed new bridge and must be relocated. CenturyLink will bore under NC 42 at \pm STA 12+50. They will then install new telephone cables along the south side on NC 42 staying approximately 5' inside the existing ROW. The creek crossing at \pm STA 14+00 will be bored to eliminate impacts to the creek and buffer zones. There are no wetland impacts on this segment of CenturyLink's relocation route.

CenturyLink will bore under NC 42 at \pm STA 19+08 to get back to the north side. A bore pit will be established inside the proposed ROW approximately 105' north of the existing centerline of NC 42. From there CenturyLink will bore under the Tar River, following approximately 5' inside the proposed ROW, to a receiving pit in an existing clearing at \pm STA 35+00. The proposed telephone cables will be tied back to the existing underground telephone at \pm STA 35+50. The crossing of the Tar River and wetland areas on the north side of NC 42 will be bored to eliminate impacts to the wetlands and buffer zones.

There will be hand clearing to create space for the bore pits and a path for equipment to reach the bore pits from the road. All of the proposed clearing will be outside the buffer zones and wetland areas.

Suddenlink (CATV)

The existing overhead CATV lines that cross the river will remain in place. The existing underground CATV lines on the east side of the Tar River will be relocated to the existing power poles. There will be no environmental impacts from CATV.

Britt Farm Ro PROJECT Brown Farm Rd. SITE VICINITY MAP

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

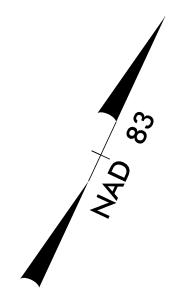
NEU PERMIT PLANS EDGECOMBE COUNTY

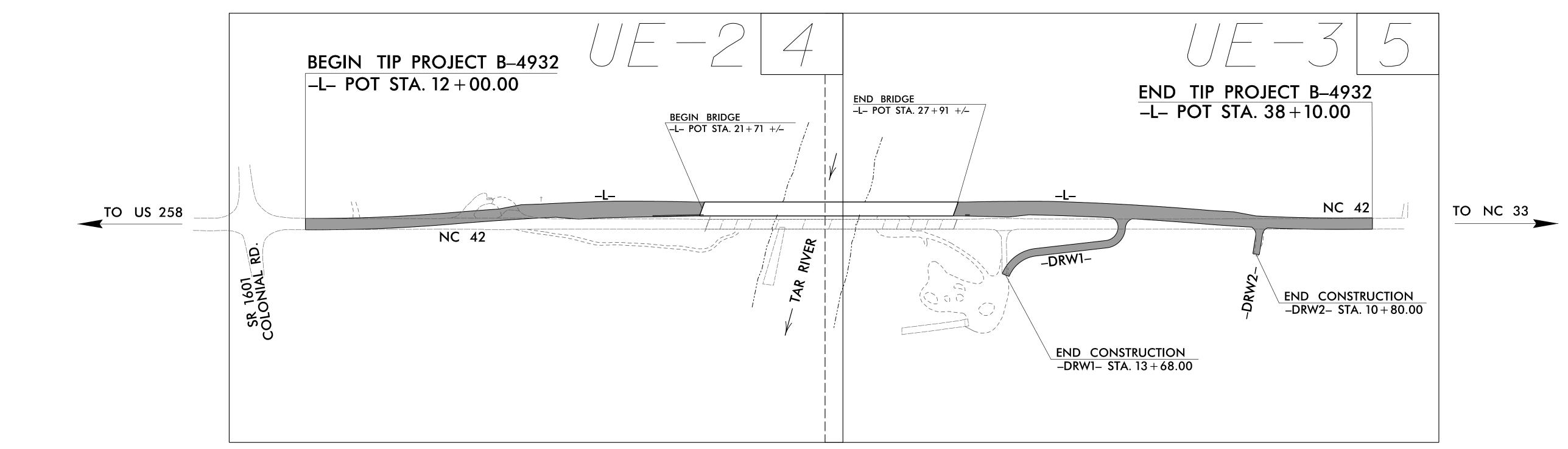
T.I.P. NO. SHEET NO. UE₋₁ B-4932

NOTE: ALL UTILITY WORK SHOWN ON THIS SHEET IS DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

LOCATION: BRIDGE NO. 28 OVER TAR RIVER ON NC 42

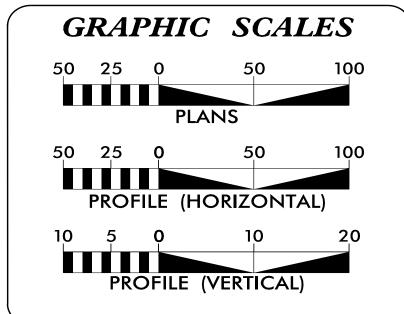
TYPE OF WORK: WATER, TELEPHONE, POWER, AND CATV RELOCATION





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

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS

SHEET NO.: **DESCRIPTION:**

TITLE SHEET

UE-2 THRU UE-3

UTILITY OWNERS WITH CONFLICTS

(A) WATER - EDGECOMBE COUNTY (B) POWER - EDGECOMBE MARTIN EMC

(C) TELEPHONE – CENTURYLINK

(D) CATV - SUDDENLINK



1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F–0377 Bus: 919 851 8077 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

John D. Schriner, PLS PROJECT UTILITY COORDINATOR



DIVISION OF HIGHWAYS UTILITIES UNIT 1555 MAIL SERVICES CENTER RALEIGH NC 27699–1555 PHONE (919) 707–6690 FAX (919) 250–4151

Bo Hemphill, PE Kelvin Martin

Ed Reams

Larry James

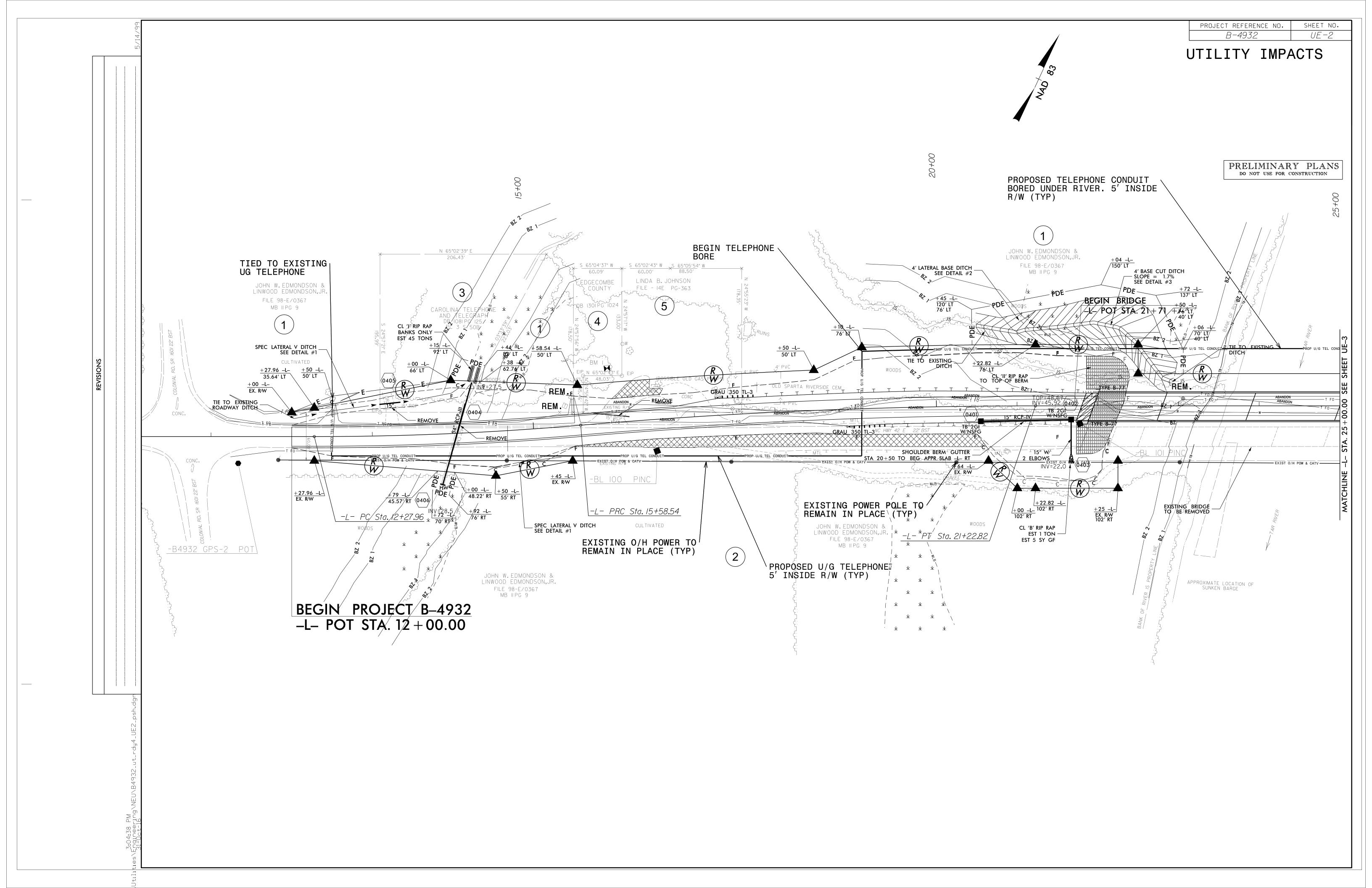
UTILITIES REGIONAL ENGINEER UTILITIES ENGINEER UTILITIES AREA COORDINATOR

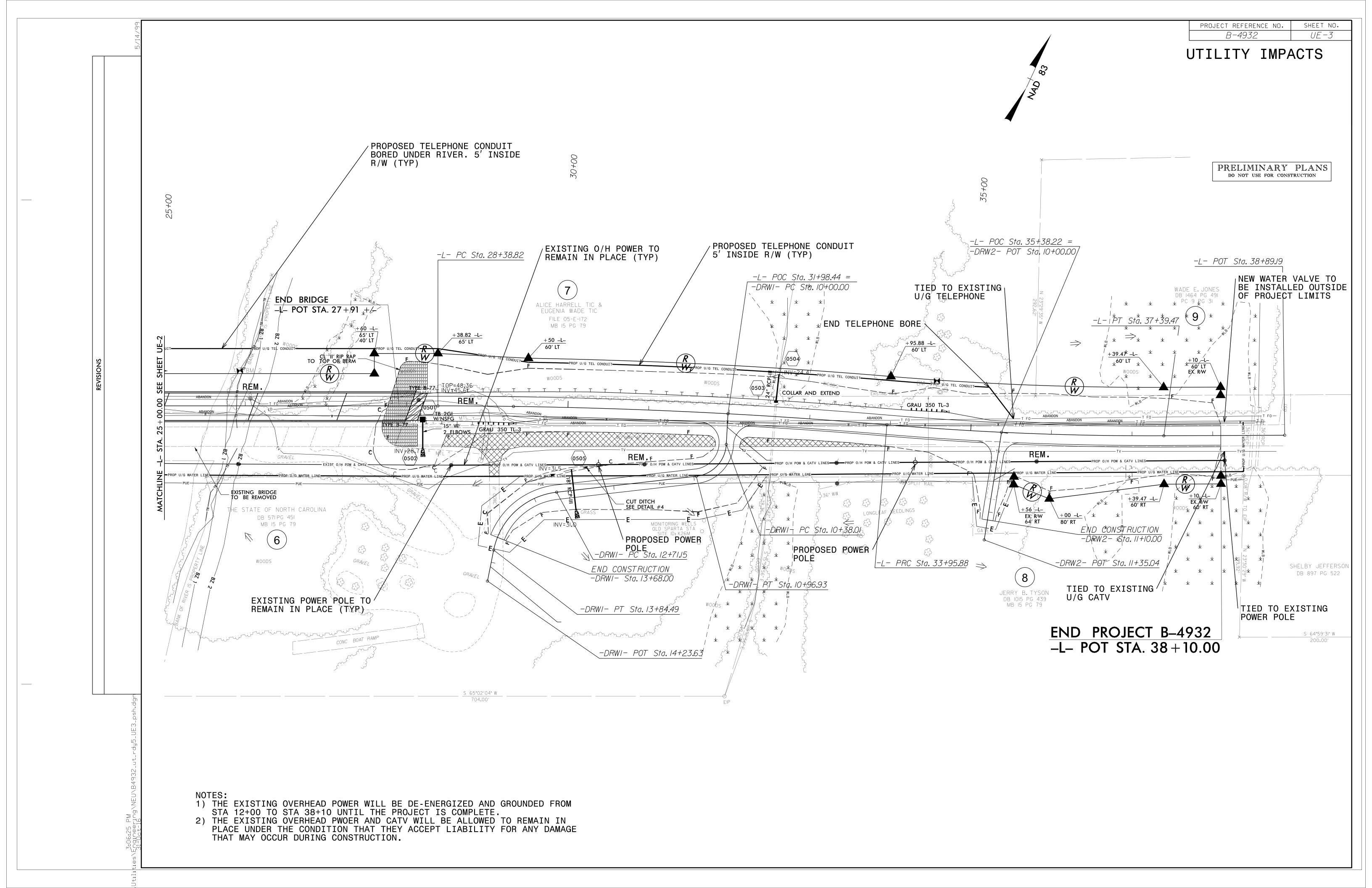
UTILITIES COORDINATOR

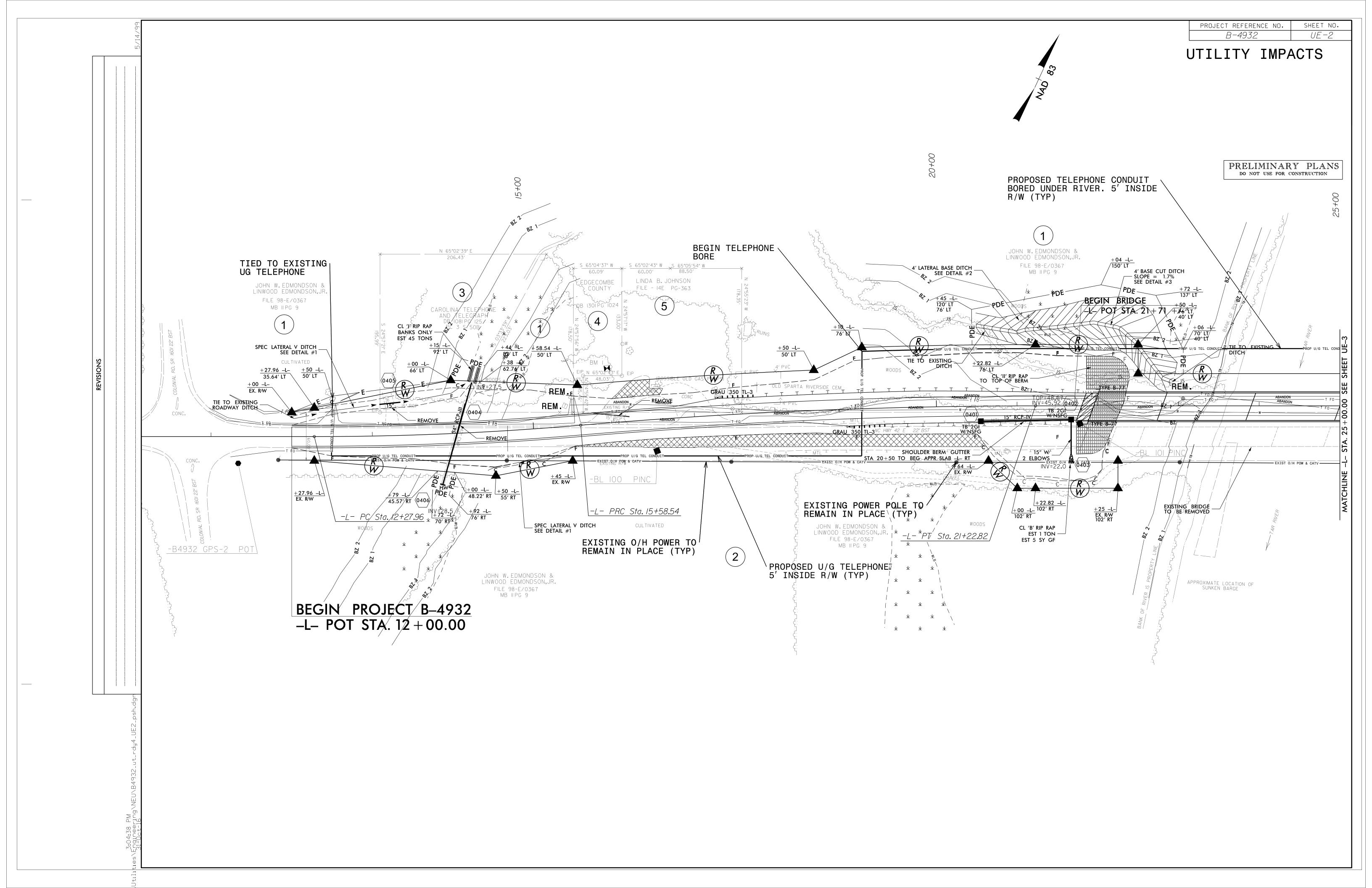
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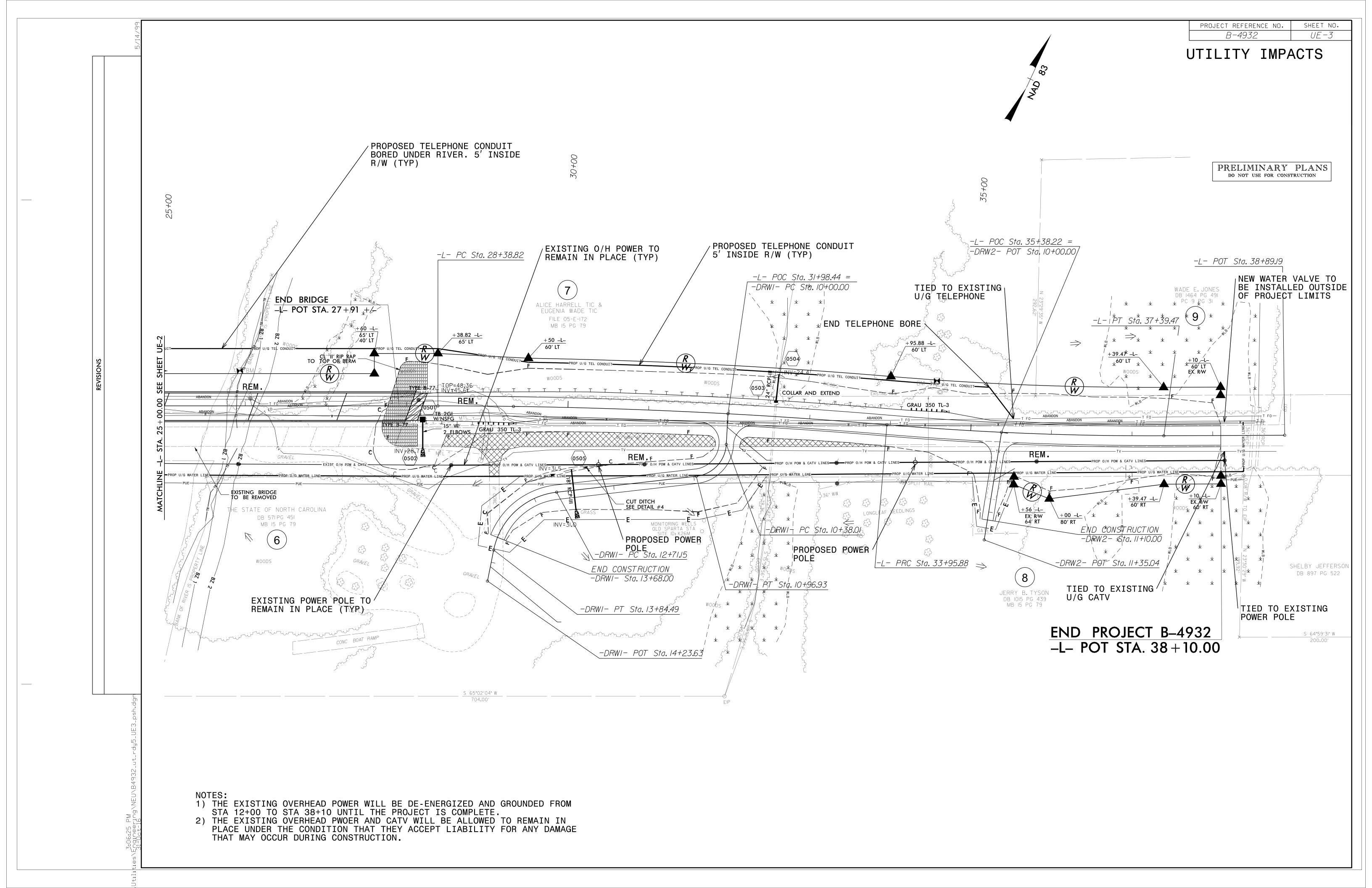
UE-1

NEU PLAN SHEETS









See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS STATE PROJ. NO. 40137.1.1 Britt Farm Ro 40137.2.1 EDGECOMBE COUNTY PROJECT Brown Farm Rd. SITE LOCATION: BRIDGE NO. 28 OVER TAR RIVER ON NC 42 M TYPE OF WORK: GRADING, PAVING, DRAINAGE, TEMPORARY SIGNALS AND STRUCTURE RIGHT OF WAY PLANS VICINITY MAP BEGIN TIP PROJECT B-4932 |-L-| POT STA. 12 + 00.00END TIP PROJECT B-4932 END BRIDGE -L- POT STA. 28 + 05.00 -L- POT STA. 38 + 10.00 BEGIN BRIDGE _L_ POT STA. 21 + 95.00 TO US 258 NC 42 NC 42 END CONSTRUCTION -DRW2- STA. 11+10.00 END CONSTRUCTION -DRW1- STA. 13+68.00

GRAPHIC SCALES DESIGN DATA PROJECT LENGTH ADT 2017 = 2410

ADT 2037 = 3180K = 9 %PLANS D = 60 %T = 32 % *V = 60 MPHPROFILE (HORIZONTAL)

PROFILE (VERTICAL)

* TTST = 22% DUAL 10% FUNC CLASS = MAJOR COLLECTOR **REGIONAL TIER**

LENGTH ROADWAY TIP PROJECT B-4932 = 0.378 MI.LENGTH STRUCTURE TIP PROJECT B-4932 = 0.116 MI. TOTAL LENGTH OF TIP PROJECT B-4932 = 0.494 MI.

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

Prepared for the North Carolina Department of Transportation In the Office of: SUNGATE DESIGN GROUP, P.A. 2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: JIMMY GOODNIGHT, PE PROJECT ENGINEER MARCH 17, 2017 LETTING DATE: JERRY JAVELLANA, PE MARCH 20, 2018 PROJECT DESIGN ENGINEER

TATIA L. WHITE, PE, PLS

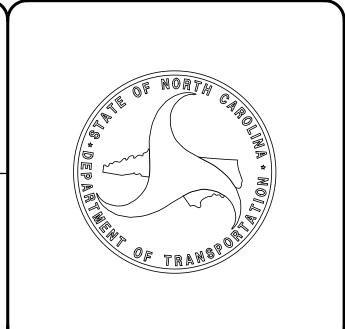
ROADWAY DESIGN PROJECT DESIGN ENGINEER

NCDOT CONTACT

SIGNATURE: ROADWAY DESIGN **ENGINEER**

SIGNATURE:

HYDRAULICS ENGINEER



DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

TO NC 33

B-4932

BRSTP-0042(19)

R/W, UTIL

BOUNDARIES AND PROPERTY:

False Sump ——

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

State Line ————————————————————————————————————			
County Line —			
Township Line		RAILROADS:	
City Line		Standard Gauge	CSX TRANSPORTATION
Reservation Line ————————————————————————————————————		RR Signal Milepost	MILEPOST 35
Property Line ————————————————————————————————————		Switch ————	SWITCH
Existing Iron Pin	<u></u>	RR Abandoned	
Property Corner ———————————————————————————————————		RR Dismantled	
Property Monument ————————————————————————————————————	 ECM	RIGHT OF WAY:	
Parcel/Sequence Number		Baseline Control Point	•
Existing Fence Line ————————————————————————————————————		Existing Right of Way Marker	\triangle
Proposed Woven Wire Fence ————		Existing Right of Way Line	
Proposed Chain Link Fence		Proposed Right of Way Line	$\frac{R}{W}$
Proposed Barbed Wire Fence		Proposed Right of Way Line with	$\frac{R}{W}$
Existing Wetland Boundary		Iron Pin and Cap Marker Proposed Pight of Way Line with	
Proposed Wetland Boundary		Proposed Right of Way Line with Concrete or Granite R/W Marker	
Existing Endangered Animal Boundary ——		Proposed Control of Access Line with	
Existing Endangered Plant Boundary		Concrete C/A Marker	
Existing Historic Property Boundary	НРВ	Existing Control of Access	——————————————————————————————————————
Known Contamination Area: Soil		Proposed Control of Access ————	
Potential Contamination Area: Soil		Existing Easement Line —————	———E———
Known Contamination Area: Water		Proposed Temporary Construction Easement –	E
Potential Contamination Area: Water ——		Proposed Temporary Drainage Easement——	TDE
Contaminated Site: Known or Potential —		Proposed Permanent Drainage Easement ——	PDE
		Proposed Permanent Drainage / Utility Easemen	†DUE
BUILDINGS AND OTHER CUI		Proposed Permanent Utility Easement ———	PUE
Gas Pump Vent or U/G Tank Cap ———— 	_	Proposed Temporary Utility Easement ———	TUE
Sign ————————————————————————————————————	<u> </u>	Proposed Aerial Utility Easement ————	AUE
Well	W	Proposed Permanent Easement with	^
Small Mine ————————————————————————————————————	— ×	Iron Pin and Cap Marker	(*)
Foundation ————————————————————————————————————		ROADS AND RELATED FEATURE	E S :
Area Outline ————————————————————————————————————		Existing Edge of Pavement	
Cemetery		Existing Curb	
Building —		Proposed Slope Stakes Cut	
School ———————————————————————————————————	— <u></u>	Proposed Slope Stakes Fill	<u>F</u>
Church —		Proposed Curb Ramp	CR
Dam —		Existing Metal Guardrail	
HYDROLOGY:		Proposed Guardrail —————	
Stream or Body of Water ——————		Existing Cable Guiderail	
Hydro, Pool or Reservoir —————		Proposed Cable Guiderail	
Jurisdictional Stream		Equality Symbol	lacktriangle
Buffer Zone 1 ———————————————————————————————————		Pavement Removal	
Buffer Zone 2 ———————————————————————————————————		VEGETATION:	
Flow Arrow		Single Tree	슌
Disappearing Stream ————————————————————————————————————		Single Shrub	\$
Spring —		Hedge ———	
Wetland ————————————————————————————————————		Woods Line	(;}(;}(;}(;}
Proposed Lateral, Tail, Head Ditch ———	FLOW		

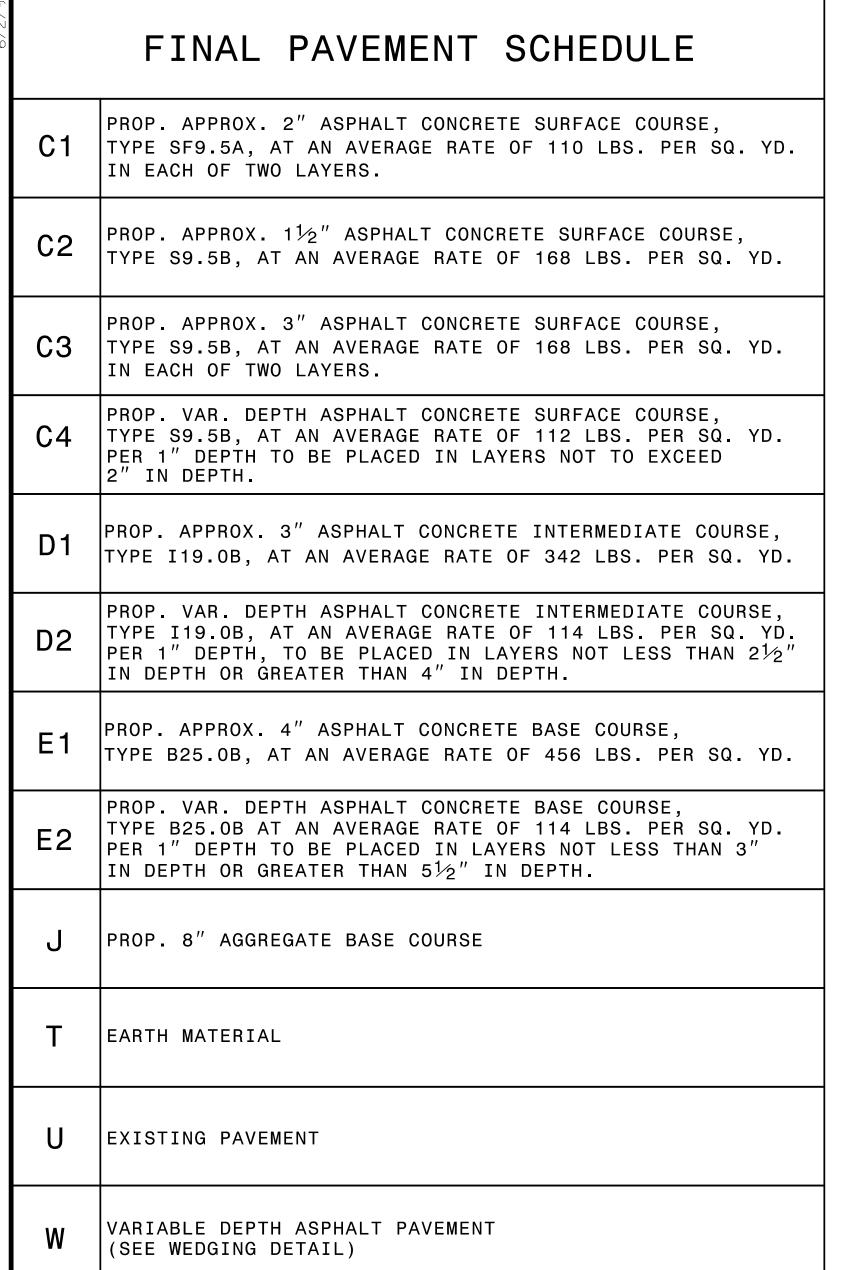
Orchard —	- 융 융 융 융
Vineyard ————————————————————————————————————	- Vineyard
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	-) CONC WW (
MINOR:	
Head and End Wall	
Pipe Culvert —	
Footbridge ——————	>
Drainage Box: Catch Basin, DI or JB	СВ
Paved 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>M</u>
U/G Power Cable Hand Hole	-
H-Frame Pole	•
U/G Power Line LOS B (S.U.E.*)	P
U/G Power Line LOS C (S.U.E.*)	- — — P — — —
U/G Power Line LOS D (S.U.E.*)	- P
TELEPHONE:	
Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Cable LOS B (S.U.E.*)	
U/G Telephone Cable LOS C (S.U.E.*)	
U/G Telephone Cable LOS D (S.U.E.*)	
U/G Telephone Conduit LOS B (S.U.E.*)	
U/G Telephone Conduit LOS C (S.U.E.*)	
U/G Telephone Conduit LOS D (S.U.E.*)	
U/G Fiber Optics Cable LOS B (S.U.E.*)	
U/G Fiber Optics Cable LOS C (S.U.E.*)	
U/G Fiber Optics Cable LOS D (S.U.E.*)	
OF TIDE OPING CUDIE LOS D (3.U.E.)	. , .

WATER: Water Manhole Water Meter	
Water Meter —	
Water Valve ————————————————————————————————————	\otimes
Water Hydrant —————	€\$
U/G Water Line LOS B (S.U.E*)	
U/G Water Line LOS C (S.U.E*)	w
U/G Water Line LOS D (S.U.E*)	
Above Ground Water Line	A/G Water
TV:	
TV Pedestal ————————————————————————————————————	
TV Tower —	\bigotimes
U/G TV Cable Hand Hole	H_{H}
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	тv
U/G TV Cable LOS D (S.U.E.*)	ТУ
U/G Fiber Optic Cable LOS B (S.U.E.*) ——	_ — — —TV F0— — —
U/G Fiber Optic Cable LOS C (S.U.E.*)	
U/G Fiber Optic Cable LOS D (S.U.E.*)	TV FO
GAS:	
Gas Valve —————	\Diamond
Gas Meter ———————————————————————————————————	\Diamond
U/G Gas Line LOS B (S.U.E.*)	
U/G Gas Line LOS C (S.U.E.*)	
U/G Gas Line LOS D (S.U.E.*)	
Above Ground Gas Line	
SANITARY SEWER:	
Sanitary Sewer Manhole	(
Sanitary Sewer Mannole Sanitary Sewer Cleanout ————————————————————————————————————	
U/G Sanitary Sewer Line —	•
Above Ground Sanitary Sewer ————	
SS Forced Main Line LOS B (S.U.E.*)	
SS Forced Main Line LOS C (S.U.E.*)	
SS Forced Main Line LOS D (S.U.E.*)	
,	
MISCELLANEOUS:	
Utility Pole ———————	•
Utility Pole with Base —————	
Utility Located Object —————	\odot
Utility Traffic Signal Box —————	S
Utility Unknown U/G Line LOS B (S.U.E.*)	?UTL
U/G Tank; Water, Gas, Oil —————	
Underground Storage Tank, Approx. Loc. ——	(UST)
A/G Tank; Water, Gas, Oil —————	
Geoenvironmental Boring —————	↔
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records ——	AATUR

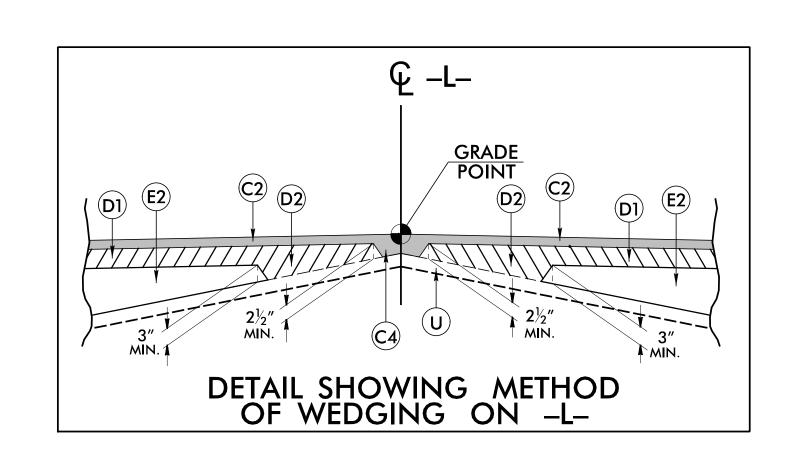
E.O.I.

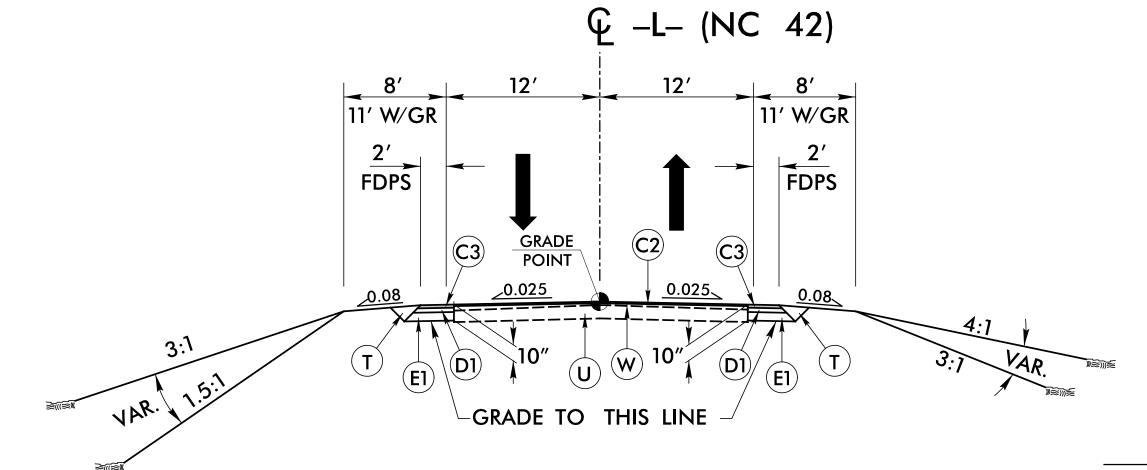
End of Information —

PROJECT REFERENCE NO. B-4932



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





TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

-L- STA. 12+00.00 TO STA. 14+20.00

-L- STA. 35+96.00 TO STA. 38+10.00

PROJECT REFERENCE NO.

B-4932

DOCUMENT NOT CONSIDERED FINAL

UNLESS ALL SIGNATURES COMPLETED

ROADWAY DESIGN ENGINEER

Raleigh, NC 27606 NC License No. C-370 SHEET NO.

2A-/

PAVEMENT DESIGN ENGINEER

SUNGATE DESIGN GROUP, P.A.

915 SONGE FRANKLIN ROAD.

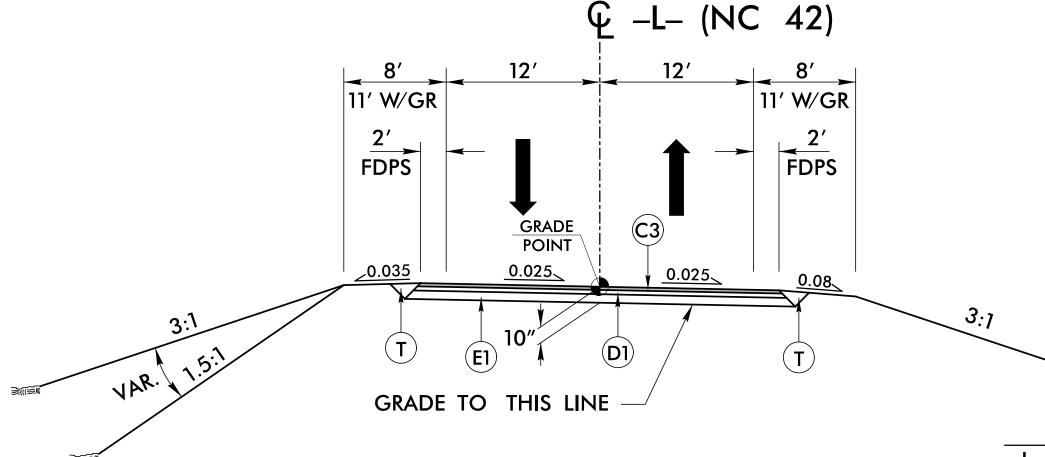
915 SONGE FRANKLIN ROAD.

1915 SONGE FRANKLIN ROAD.

1915 SONGE FRANKLIN ROAD.

1916 SONGE FAX (1919) 690-4250.

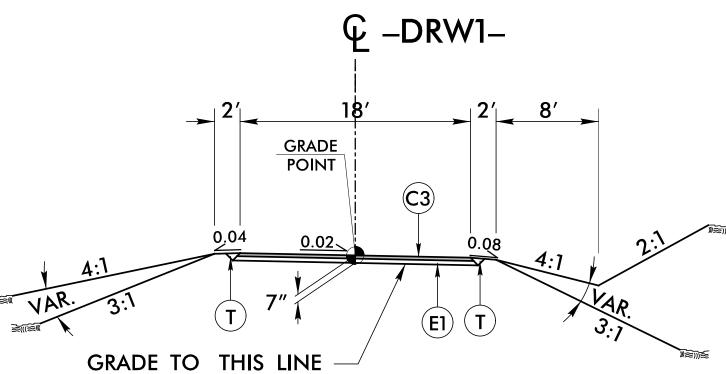
1916 FRANKLIN KONGEN CO. EACH OF THE CONGEN CO. EACH OF THE CO



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

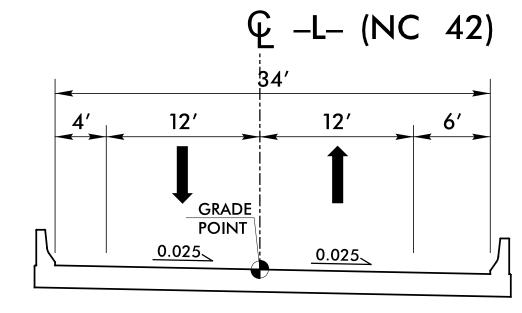
-L- STA. 14+20.00 TO STA. 21+95.00 (BEGIN BRIDGE)
-L- STA. 28+05.00 (END BRIDGE) TO STA. 35+96.00



TYPICAL SECTION NO. 3

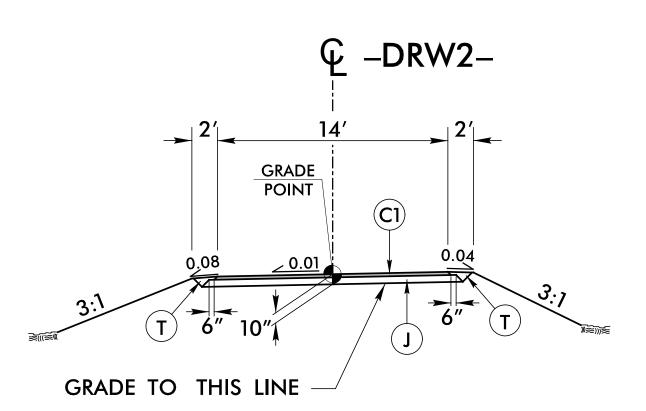
USE TYPICAL SECTION NO. 3

-DRW1- STA. 10+12.00 TO STA. 13+68.00



TYPICAL SECTION ON STRUCTURE

-L- STA. 21+95.00 (BEGIN BRIDGE) TO STA. 28+05.00 (END BRIDGE)



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

-DRW2- STA. 10+12.08 TO STA. 11+10.00

