

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR EUGENE A. CONTI, JR. SECRETARY

June 7, 2012

Wilmington Regulatory Field Office US Army Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403

ATTN:

Mr. Ronnie Smith

NCDOT Coordinator

Dear Sir:

Subject:

Application for a Section 404 Nationwide Permit No. 23 and Section 10 Permit for the

proposed Bridge No. 188 on SR 1316 over the Cape Fear River and Bridge No. 189 over an unnamed tributary of the Cape Fear River in Bladen County. Federal Aid Project No.

BRZ-1316(6), TIP No. B-4712, WBS Element 37912.1.1.

The North Carolina Department of Transportation (NCDOT) proposes to replace the 1,473-foot 24-span Bridge No. 188 with a 1,570-foot, 14-span bridge and the 280-foot eight-span Bridge No. 189 with a 300-foot four-span bridge; both on a new alignment while maintaining traffic on the existing structures during construction. Overhead powerline utilities will be relocated away from the bridges and telephone lines will be adjusted. No permanent impacts to jurisdictional resources are proposed.

Please see enclosed copies of the Pre-Construction Notification (PCN), permit drawings, stormwater management plan, and design plans for the above referenced project. The Categorical Exclusion (CE) was completed in September 2011. Copies were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of February 19, 2013 and a review date of January 1, 2013. The project schedule may be advanced if funding becomes available.

Regulatory Approvals

<u>Section 404 Permit:</u> All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that these activities be authorized by Nationwide Permit 23.

<u>Section 401 Permit:</u> We anticipate 401 General Certification number 3891 will apply to this project. All general conditions of the Water Quality Certification will be met and therefore NCDOT is not requesting written approval. NCDOT is providing two copies of this application to the NCDWQ for their review.

<u>Section 10 Permit:</u> Application is hereby made for a USACE Section 10 Permit as required for the above-described activities.

A copy of this permit application and its distribution list will be posted at the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 707-6156.

HUUS L

Gregory J. Thorpe, Ph.D., Manager

Project Development and Environmental Analysis Unit

"cc:" NCDOT Permit Application Standard Distribution List

Sincerely,





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

	Pre-Construction Notification (PCN) Form						
A.	Applicant Information						
1.	Processing						
1a.	Type(s) of approval sought from the Corps:	he	⊠ Section 404 Permit ⊠ Section	on 10 Permit			
1b.	Specify Nationwide Permit (NWP)	number: 2	or General Permit (GF	P) number:			
1c.	Has the NWP or GP number beer	า verified b	y the Corps?	☐ Yes	⊠ No		
1d.	Type(s) of approval sought from t	he DWQ (d	check all that apply):				
		า – Regulai	r Non-404 Jurisdictiona	al General Permit	· ·		
	☐ 401 Water Quality Certification	า – Expres	s Riparian Buffer Author	rization			
1e.	Is this notification solely for the re		For the record only for DWQ 401	For the record of	only for Corps Permit:		
	because written approval is not re	squired?	Certification: ☐ Yes ☐ No	☐ Yes	⊠ No		
1f.	Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.			Yes	⊠ No		
1g.	1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below. ☐ Yes				□ No		
1h.	Is the project located within a NC	DCM Area	a of Environmental Concern (AEC)?	⊠ Yes	□ No		
2.	Project Information	-					
2a.	. Name of project:	Replacen	ment of Bridges No. 188 and No. 189	on SR 1316 over	r Cape Fear River		
2b.	. County:	Bladen					
2c.	Nearest municipality / town:	Tar Heel					
	. Subdivision name:	not applic	cable				
2e.	. NCDOT only, T.I.P. or state project no:	B-4712					
3.	Owner Information				,		
3a.	. Name(s) on Recorded Deed:	North Ca	rolina Department of Transportation				
ļ	. Deed Book and Page No.	not applic	cable				
<u> </u>	Sc. Responsible Party (for LLC if applicable): not applicable						
	. Street address:	1598 Mai	il Service Center				
3e.	. City, state, zip:	Raleigh,	NC 27699-1598				
3f.	Telephone no.:	(919) 707	7-6156				
3g.	. Fax no.:	(919) 250)-4224				
3h.	. Email address:	tstanton@	@ncdot.gov				

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

В.	Project Information and Prior Project History						
1.	Property Identification						
1a.	Property identification no. (tax PIN or parcel ID):	not applicable					
1b.	Site coordinates (in decimal degrees):	Latitude: 34.7447 Longitude: - 78.7857 (DD.DDDDDD) (-DD.DDDDDD)					
1c.	Property size:	9.4 acres					
2.	Surface Waters						
2a	Name of nearest body of water (stream, river, etc.) to proposed project:	Cape Fear River					
2b	Water Quality Classification of nearest receiving water:	С					
2c	River basin:	Cape Fear					
3.	Project Description						
3a	a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained / disturbed roadside shoulder, agriculture and forested areas. Land use in the project vicinity is predominantly agriculture with some residential properties.						
3b	. List the total estimated acreage of all existing wetlands on the	property: 2.78					
3с	. List the total estimated linear feet of all existing streams (interm	nittent and perennial) on the property: 577					
3d	. Explain the purpose of the proposed project: To replace a struobsolete bridge (no. 189).	ucturally deficient bridge (no. 188) and a functionally					
36	e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 1473-foot 24-span bridge (no. 188) with a 1570-foot, 14-span bridge and a 280-foot 8-span bridge (no. 189) with a 300-foot 4-span bridge; both on a new alignment while maintaining traffic on the existing structures during construction. Standard road building equipment, such as trucks, dozers, and cranes will be used. Overhead powerline utilities will be relocated away from bridges and telephone lines will be adjusted to provide clearance for the work bridges and equipment required to dismantle the existing bridge.						
4.	Jurisdictional Determinations						
48	 Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: USACE conducted an on-site jurisdictional determination (Action ID: SAW-2009-1877) 	⊠ Yes □ No □ Unknown					
41	o. If the Corps made the jurisdictional determination, what type of determination was made?	⊠ Preliminary □ Final					
40	c. If yes, who delineated the jurisdictional areas? Name (if known): Lance Fontaine & Tyler Stanton	Agency/Consultant Company: NCDOT Other:					
40	d. If yes, list the dates of the Corps jurisdictional determinations 28 April 2011 and a follow-up for utilities on 24 Oct. 2011	or State determinations and attach documentation.					
5.	Project History						
5	 Have permits or certifications been requested or obtained for this project (including all prior phases) in the past? 	☐ Yes ☐ Unknown					
5	b. If yes, explain in detail according to "help file" instructions.						
6	Future Project Plans						
6	a. Is this a phased project?	☐ Yes					
6	b. If ves. explain.						

C. Proposed Impa	cts Inventory	. Proposed Impacts Inventory						
1. Impacts Summa	ıry							
1a. Which sections v	vere completed be	low for your project (check all that a	oply):				
Wetlands ✓	□s	treams - tributaries	☐ Buf	fers				
	□ P	ond Construction						
2. Wetland Impact	s							
				ion for each wetland a				
2a. Wetland impact	2b.	2c.	2d.	2e. Type of jurisdic	I	2f.		
number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	(Corps - 404, DWQ – non-404,	10	Area of impact (acres)		
Site 1 ☐ P ⊠ T	Fill	Riverine	⊠ Yes □ No	Corps DWQ		0.29		
Site 1 ☐ P ⊠ T	Fill	Riverine	⊠ Yes □ No	☑ Corps ☐ DWQ		0.03		
Site 2 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 3 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 4 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 5 P T			☐ Yes	☐ Corps☐ DWQ				
·				2g. Total wetlar		0.00 Permanent 0.32 Temporary		
2h. Comments: The relocations.	re will be 0.53 acre	e of hand clearing du	e to bridge cons	struction and 0.60 acre	e of hand clea	ring due to utility		
3. Stream Impact If there are perennia question for all strea	al or intermittent st		ing temporary ir	mpacts) proposed on t	the site, then o	complete this		
3a.	3b.	3c.	3d.	3e.	3f.	3g.		
Stream impact number - Permanent (P) or Temporary (T)	Type of impact	Stream name	Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	Average stream width (feet)	Impact length (linear feet)		
Site 1 P T			PER INT	☐ Corps ☐ DWQ				
Site 2 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ				
Site 3 P T			PER INT	☐ Corps ☐ DWQ				
Site 4 P T			☐ PER☐ INT	☐ Corps ☐ DWQ				
			3h. 1	otal stream and trib	utary impacts	X Perm X Temp		
3i. Comments:	3i. Comments:							

4. Open \	N ater In	npacts								
	f there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of he U.S. then individually list all open water impacts below.									
4a.		4b.	4c.		1. Au-		4d.		4e.	
Open wa impact nur Permanent Tempora	nber – t (P) or	Name of waterbody (if applicable)		Туре	of impact		Waterbody	/ type	Area of im	pact (acres)
O1 ☐ P ⊠ T Cape Fear River				Fill		Rive	-	0.	06	
01 🗆 P	⊠T	UT to Cape Fear River			Fill		Stream	n	0	02
02 🗌 P	Т									
03 🗌 P	03 🗆 P 🗆 T									
4f. Total open water impacts 0.00 Permanent 0.08 Temporary										
4g. Comm	4g. Comments: Impacts due to piers are less than 0.01 acre									
5. Pond	or Lake	Construction								
If pond or	lake con	struction proposed,	then com	olete :	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID		oposed use or	Wetland Impacts (acres)			Strea	m Impac	cts (feet)	Upland (acres)	
number	pu	rpose of pond	Floode	ed	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	nents:									
5h. Is a dam high hazard permit required?			red?	ΠY	'es	☐ No	If yes, per	mit ID no) :	
5i. Expe	5i. Expected pond surface area (acres):									
5j. Size	of pond	watershed (acres):								
5k. Method of construction:										

6. Buffer Impacts (for DWQ)								
	If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you MUST fill out Section D of this form.							
6a.			☐ Neuse	☐ Tar-Pamlico	Other:			
Project is in which	protected basin?	Catawba	Randleman					
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number – Permanent (P) or	Reason for impact	Stream name	Buffer mitigation	Zone 1 impact (square feet)	Zone 2 impact (square feet)			
Temporary (T)			required?					
B1 □ P □ T			☐ Yes ☐ No					
B2 □ P □ T			☐ Yes ☐ No					
ВЗ □Р□Т	B3							
	6h. Total buffer impacts							
6i. Comments:	6i. Comments:							

D.	Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	Specifically describe measures taken to avoid or minimize the	he proposed imp	oacts i	n designing project.		
	The proposed Bridge No. 188 is 97 feet longer than the existing bridge and the proposed Bridge No. 189 is 20 feet longer than the existing bridge; the proposed bridges will be at approximately the same grade as the existing structures; there will be no permanent fill or excavation in jurisdictional areas. Deck drains are limited to overbank area under bridge with no direct discharge into the river. Removal of existing road fill for longer bridge and increasing bridge opening will improve hydrological conveyance and wildlife passage, and reduce bridge opening velocities. Stream-side areas will be graded such that elevations match natural/undeveloped floodplain in project vicinity. Promotion of sheet flow and infiltration over grassed surfaces.					
1b.	Specifically describe measures taken to avoid or minimize the	he proposed imp	acts t	through construction techniques.		
	Construction will be both top-down and utilize temporary work pads and barges. There will be no permanent fill or excavation in jurisdictional areas. An in-water work moratorium for the protection of anadroumous fish in the Cape Fear River will be adhered to.					
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters o	f the	State		
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes No If no, explain:				
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps				
2c.	☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation					
3.	Complete if Using a Mitigation Bank		-			
3a.	Name of Mitigation Bank: not applicable					
3b.	. Credits Purchased (attach receipt and letter)	Туре		Quantity		
3c.	Comments:					
4.	Complete if Making a Payment to In-lieu Fee Program					
4a.	. Approval letter from in-lieu fee program is attached.	Yes				
4b.	. Stream mitigation requested:	linear fee	et .			
4c.	If using stream mitigation, stream temperature:	☐ warm [cod	ol		
4d.	. Buffer mitigation requested (DWQ only):	square fe	et:			
4e.	. Riparian wetland mitigation requested:	acres				
4f.	Non-riparian wetland mitigation requested:	acres				
4g.	. Coastal (tidal) wetland mitigation requested:	acres				
4h.	. Comments:					
5.	Complete if Using a Permittee Responsible Mitigation P	lan				
5a.	. If using a permittee responsible mitigation plan, provide a de	escription of the	propos	sed mitigation plan.		

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

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

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

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

STORMWATER MANAGEMENT PLAN

Date: 2/29/12

B-4712, State Project 37912.1.1

Bladen County

Hydraulics Project Engineer: R.C. Henegar, PE

ROADWAY DESCRIPTION

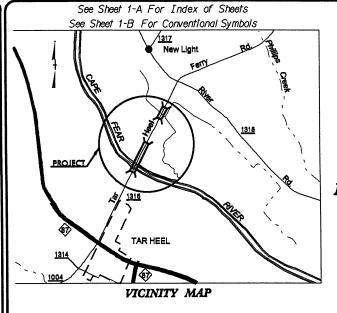
This project involves replacing Bridge No. 188 over Cape Fear River and Overflow Bridge No. 189 in Bladen County. The overall length of the project is 1.127 miles. The existing 23-foot paved road is a two-lane road with 12-foot grassed shoulders. Bridge No. 188 is a 1472.7 ft. twenty four span bridge (2@ 45.3; 1Truss Span @ 300.5; 1@ 61.3; 8@ 60; 11@ 45; 1@ 45.3) with a clear roadway width of 26 feet. Bridge No. 189 is a 280ft. eight span bridge (8@ 35) with a clear roadway width of 26 feet. The project will be a two-lane section with 12 foot lanes and 4 foot grassed shoulders. The replacement structure for Bridge No. 189 will be a 1570 ft. bridge with 14 spans (3@ 175' Steel Girders; 11@ 95' 54" Prestressed Girder) with a clear roadway width of 32 feet. The replacement structure for Bridge No. 189 will be a 300 ft. bridge with four spans (4@ 75') 45" Prestressed Girder with a clear roadway width of 32 feet.

ENVIRONMENTAL DESCRIPTION

This project is located in the Cape Fear River Basin. There is one river crossing on this project, which has a Class 'C' classification. This river is not on the 303(d) list. Wetlands will be impacted by the proposed project.

BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

There will be no direct discharge into the stream. Sheet flow will be utilized as much as practicable and discharged onto grassed surfaces.



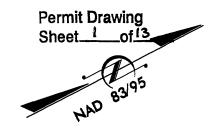
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BLADEN COUNTY

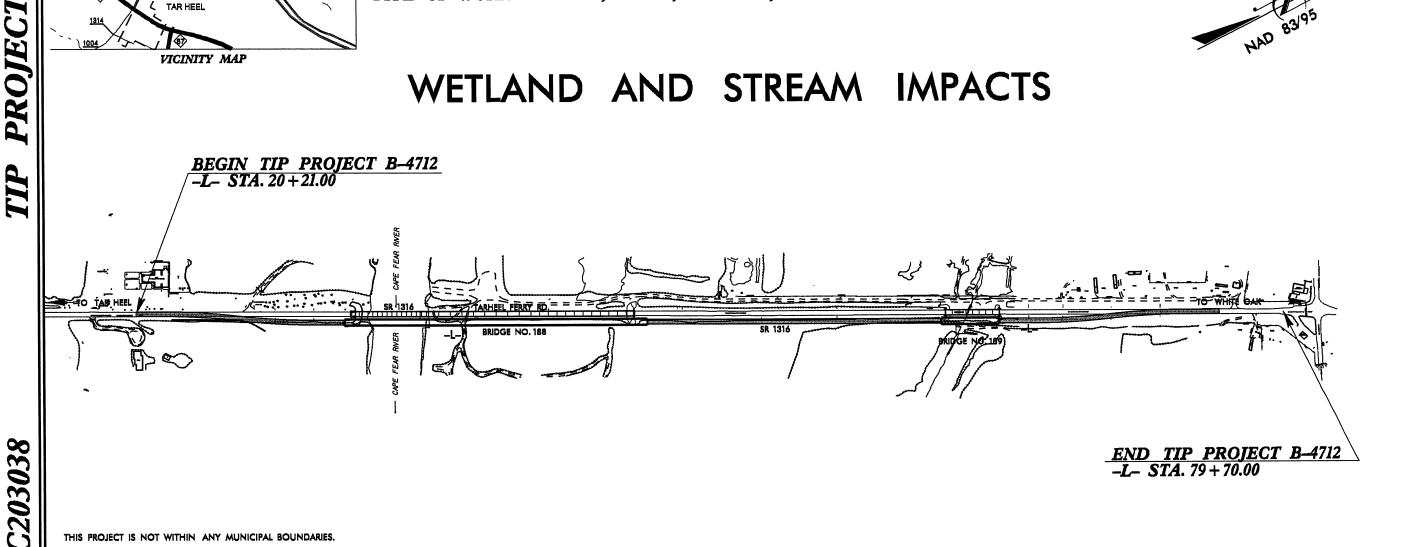
N.C. B-4712 STATE PROLNO. F.A. PROL NO. 37912.1.1 BRZ-1316(6) BRZ-1316(6) RW & UTILITIES 37912.2.1

LOCATION: BRIDGE NO. 188 AND NO. 189 OVER THE CAPE FEAR RIVER ON SR 1316

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES



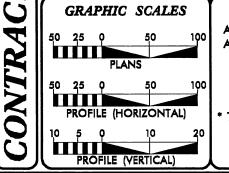
WETLAND AND STREAM IMPACTS



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER GUIDELINES FOR BRIDGE PROJECTS. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2013 = 3417ADT 2033 = 5584 DHV = 13 %

> = 55 % = 18 % * V = 60 MPH

TTST = 13% DUAL = 5% FUNC CLASS = RURAL COLLECTOR SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4712 = 0.773 MILES LENGTH STRUCTURES TIP PROJECT B-4712 = 0.354 MILES TOTAL LENGTH TIP PROJECT B-4712 = 1.127 MILES

2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE:

Prepared in the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

GARY LOVERING, PE

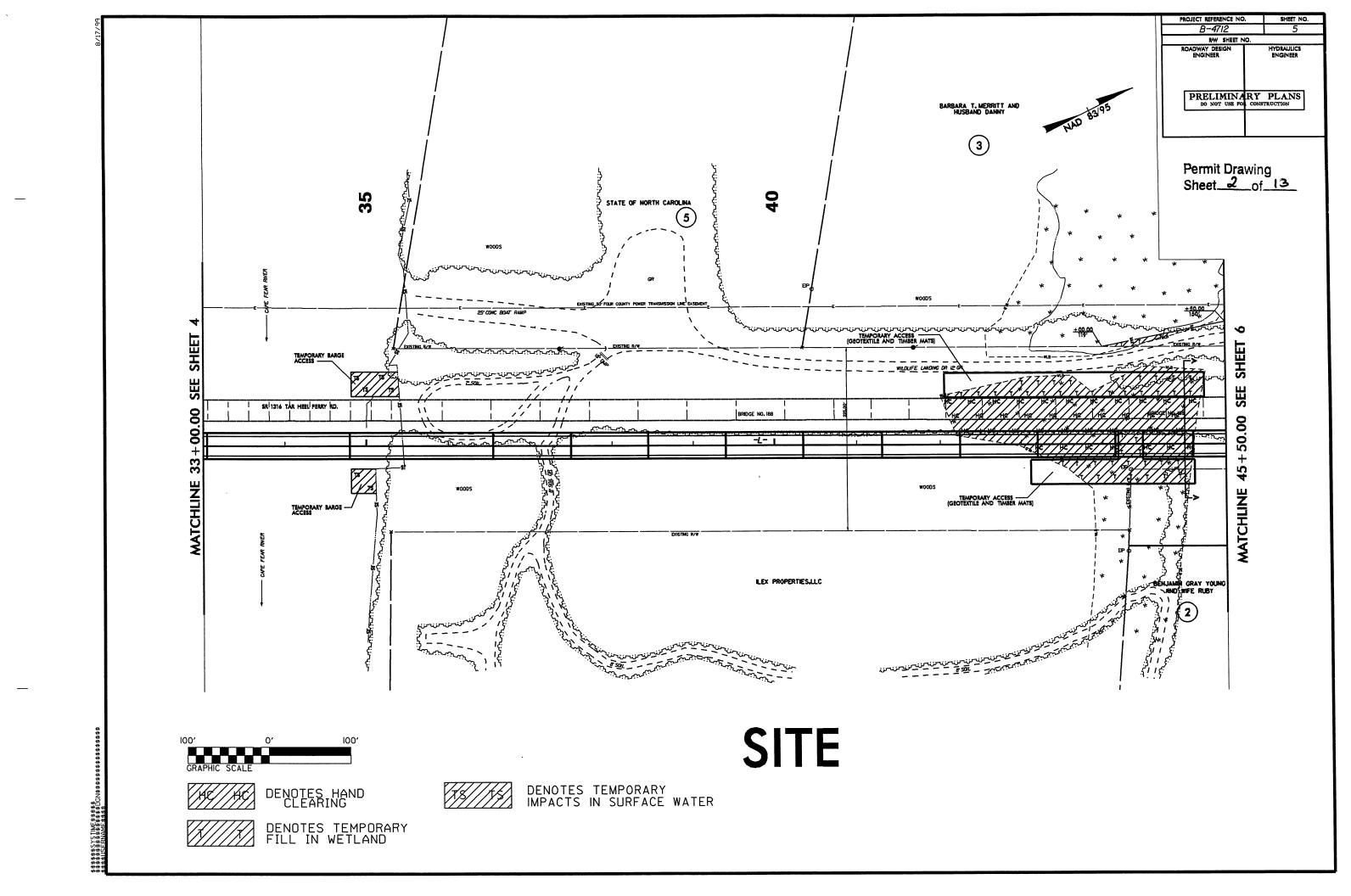
KEVIN E. MOORE, PE

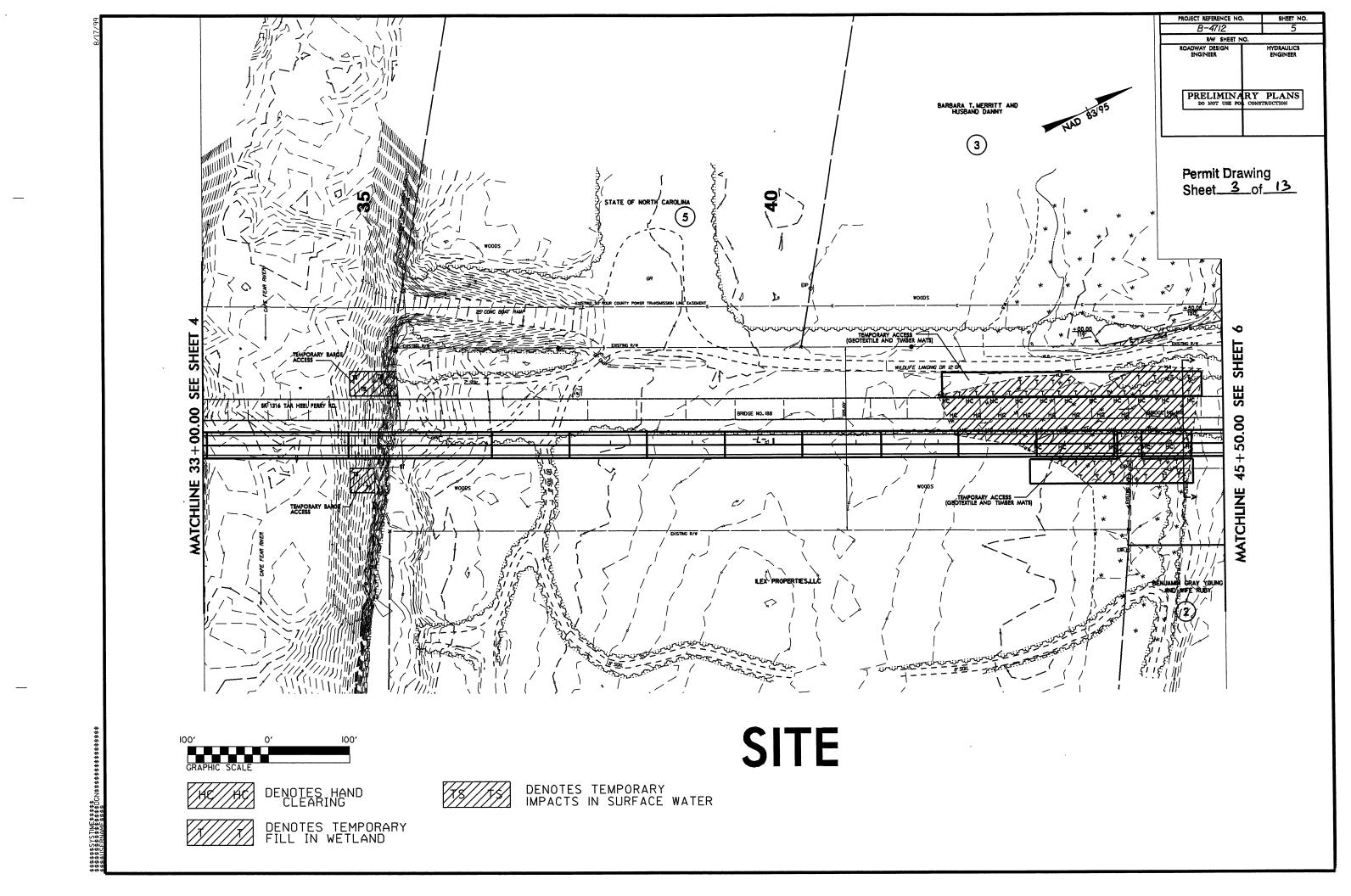
FEBRUARY 17, 2012

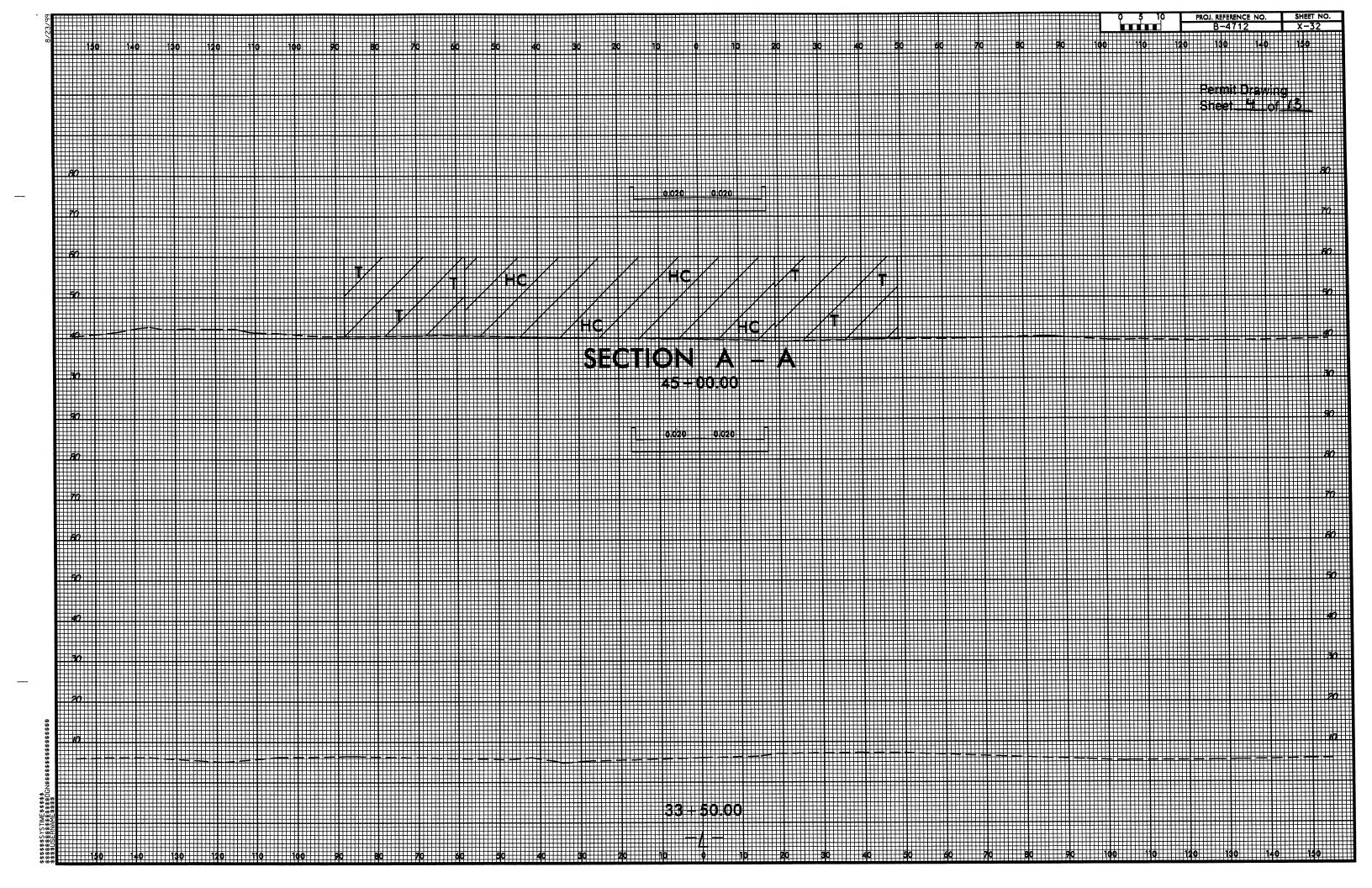
LETTING DATE: FEBRUARY 19, 2013

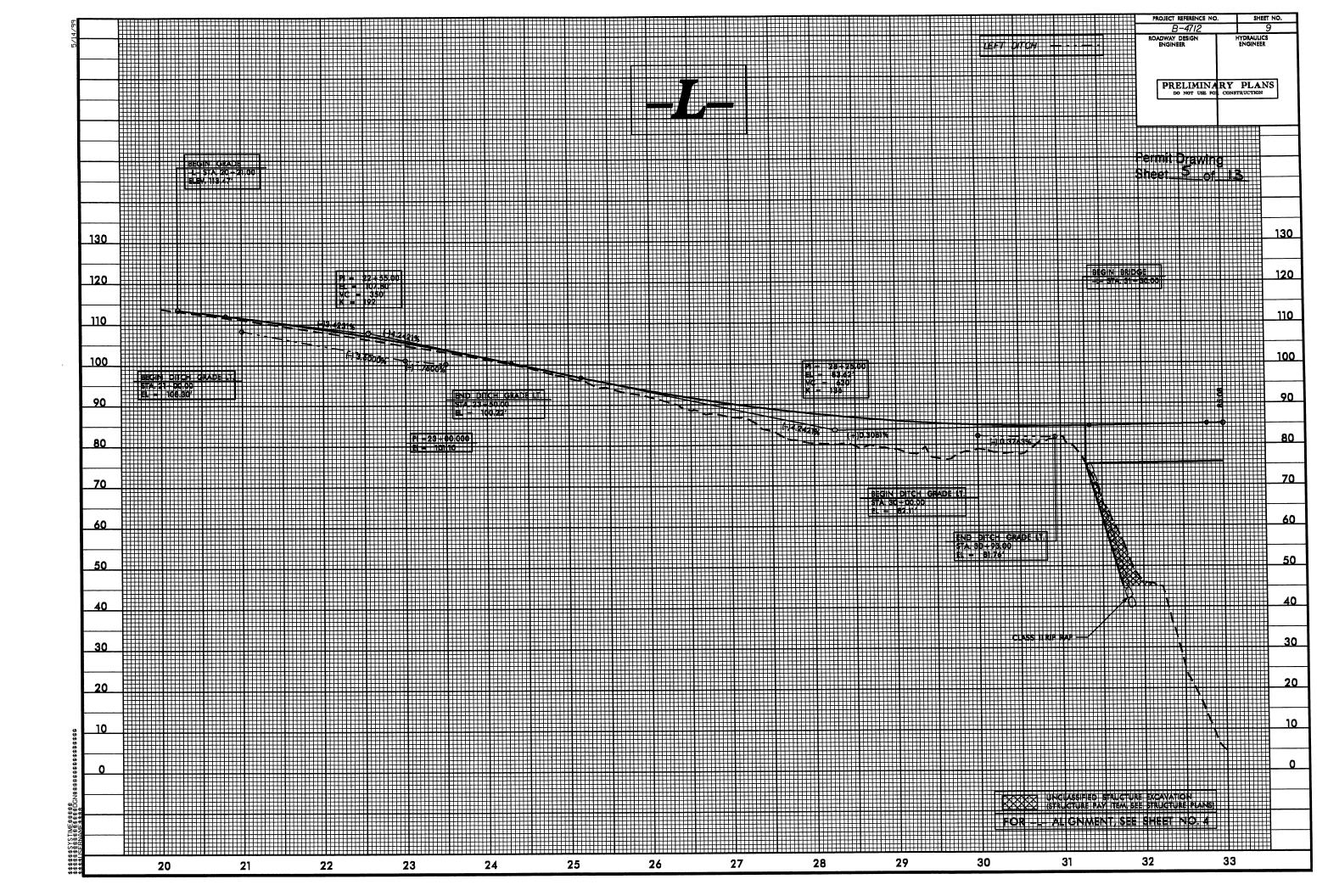
HYDRAULICS ENGINEER

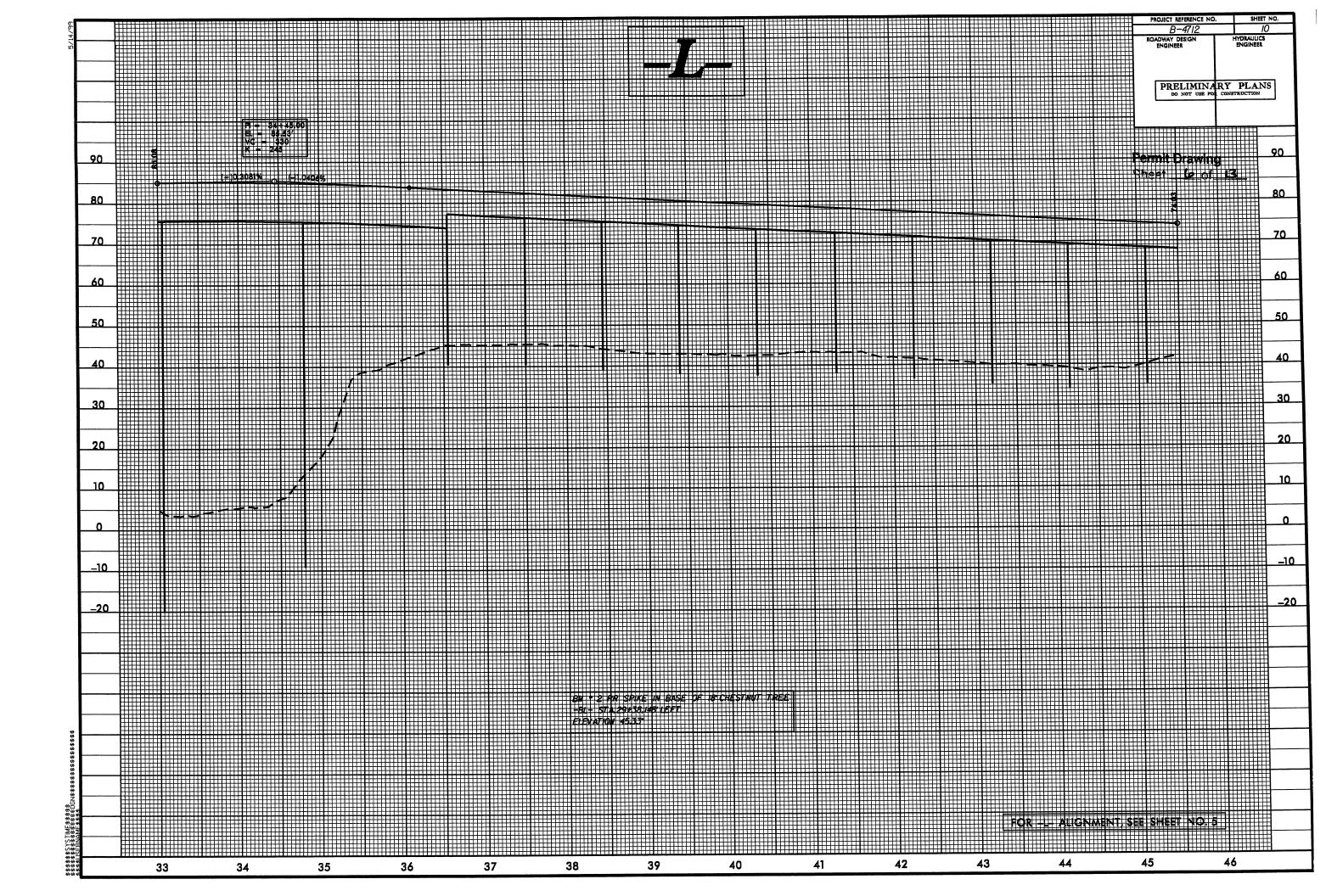
ROADWAY DESIGN

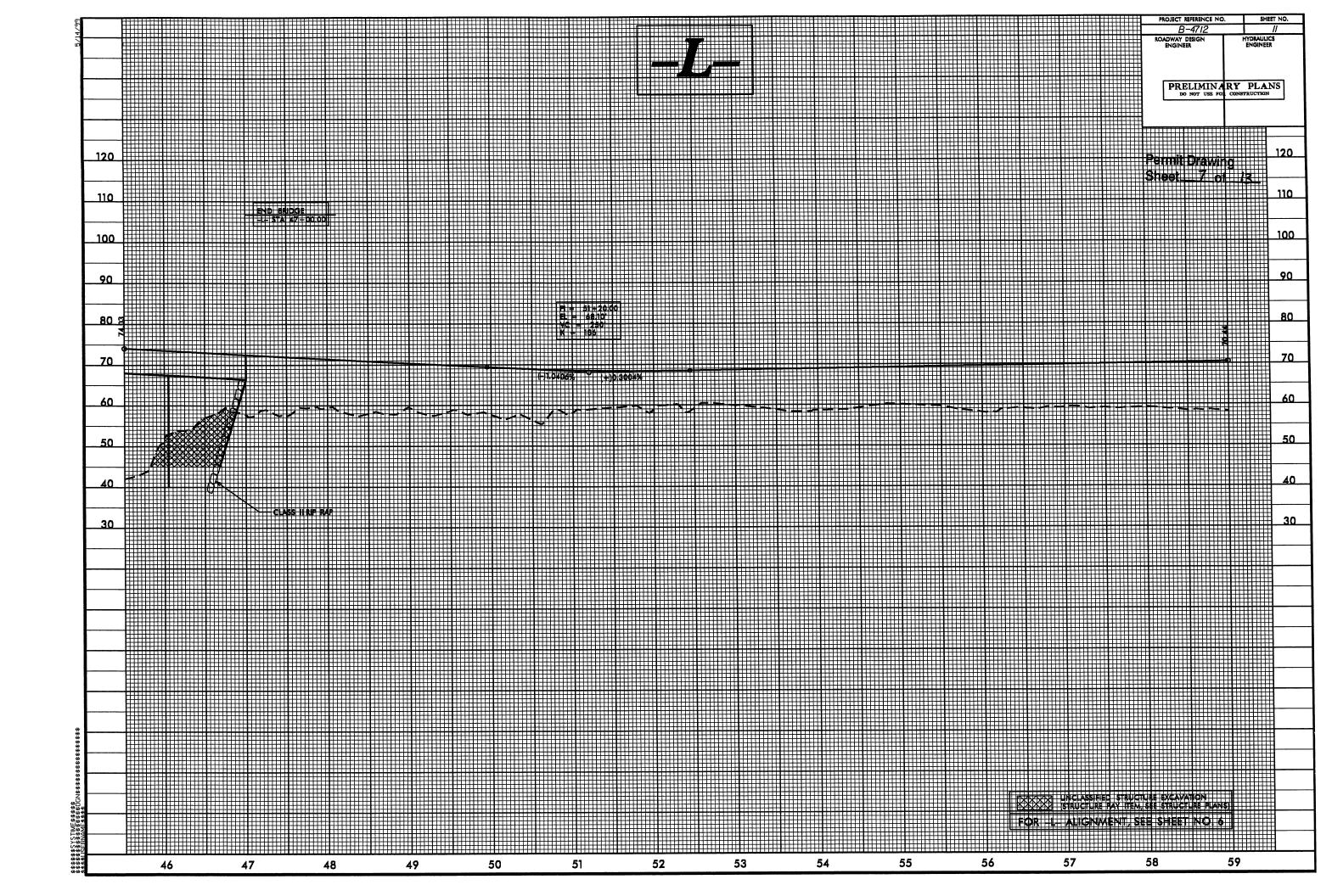


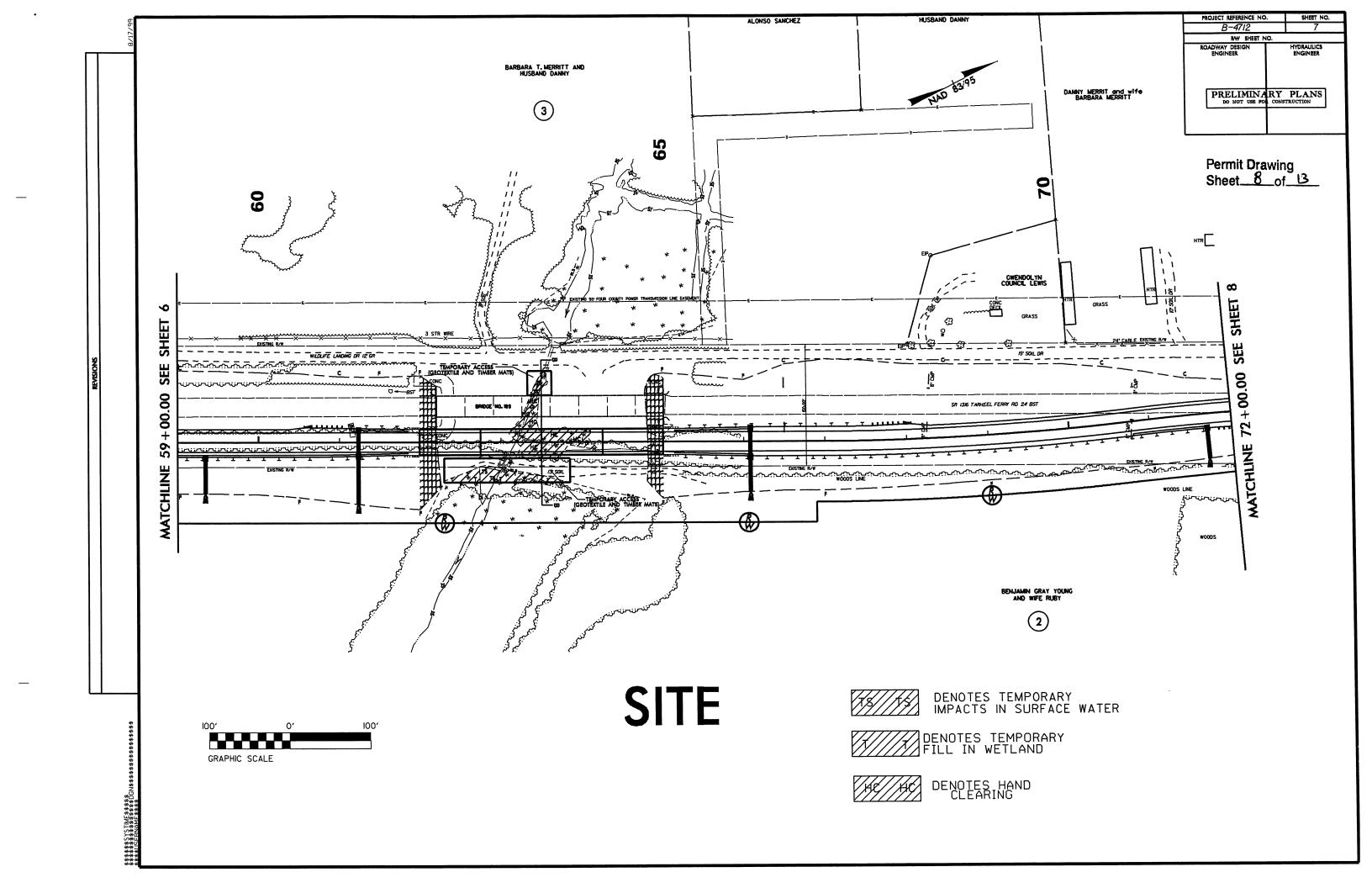


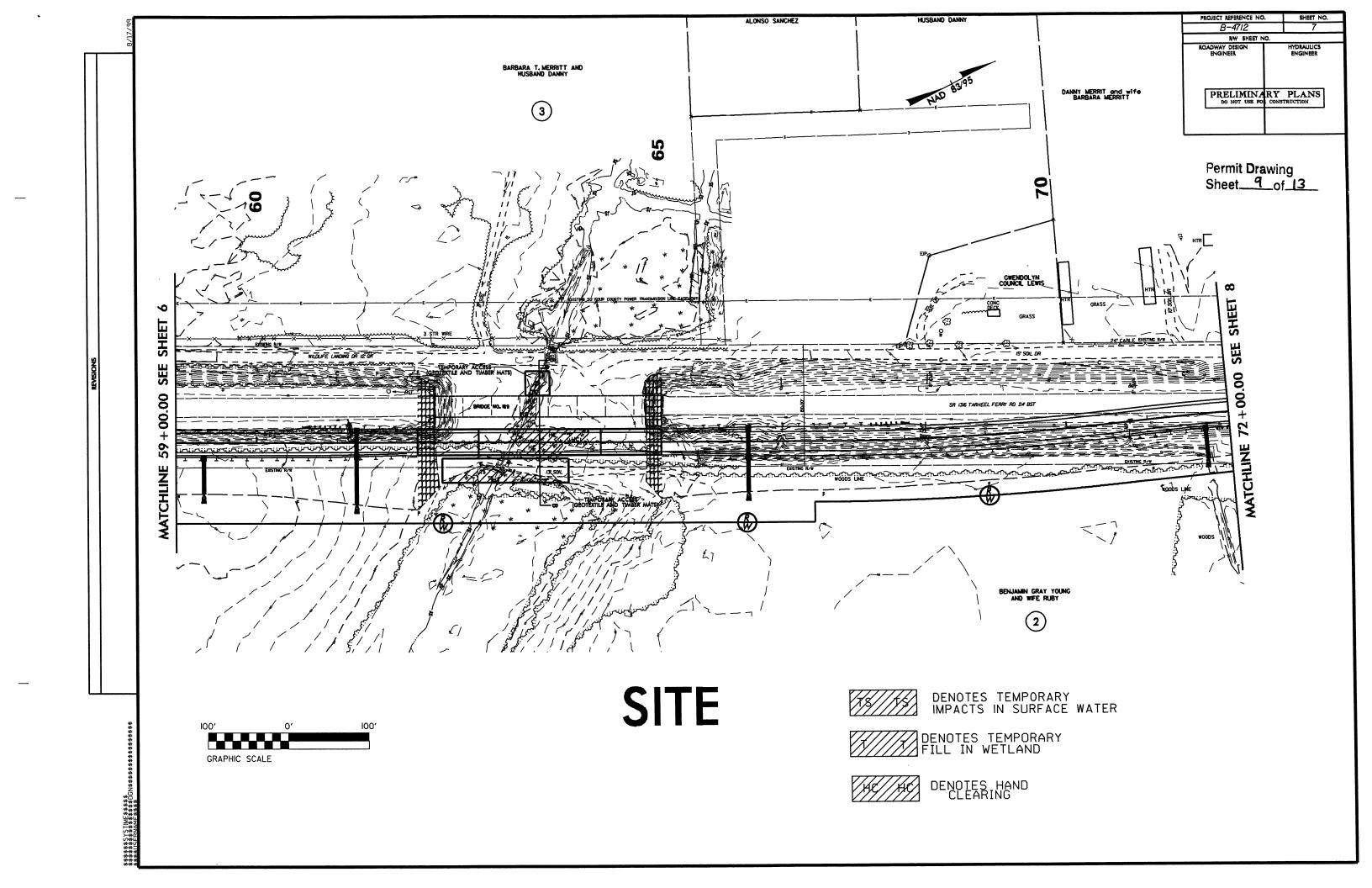


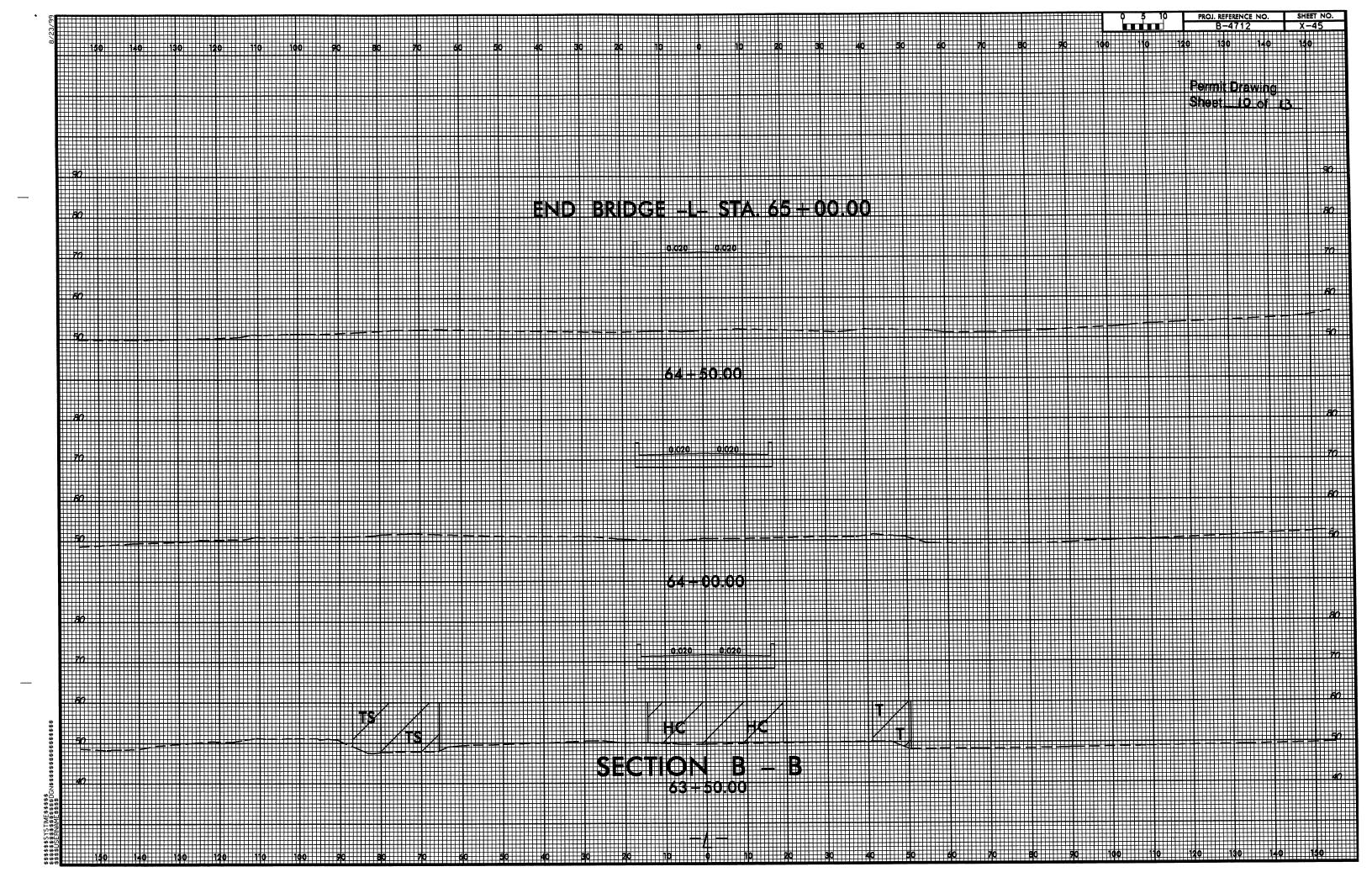


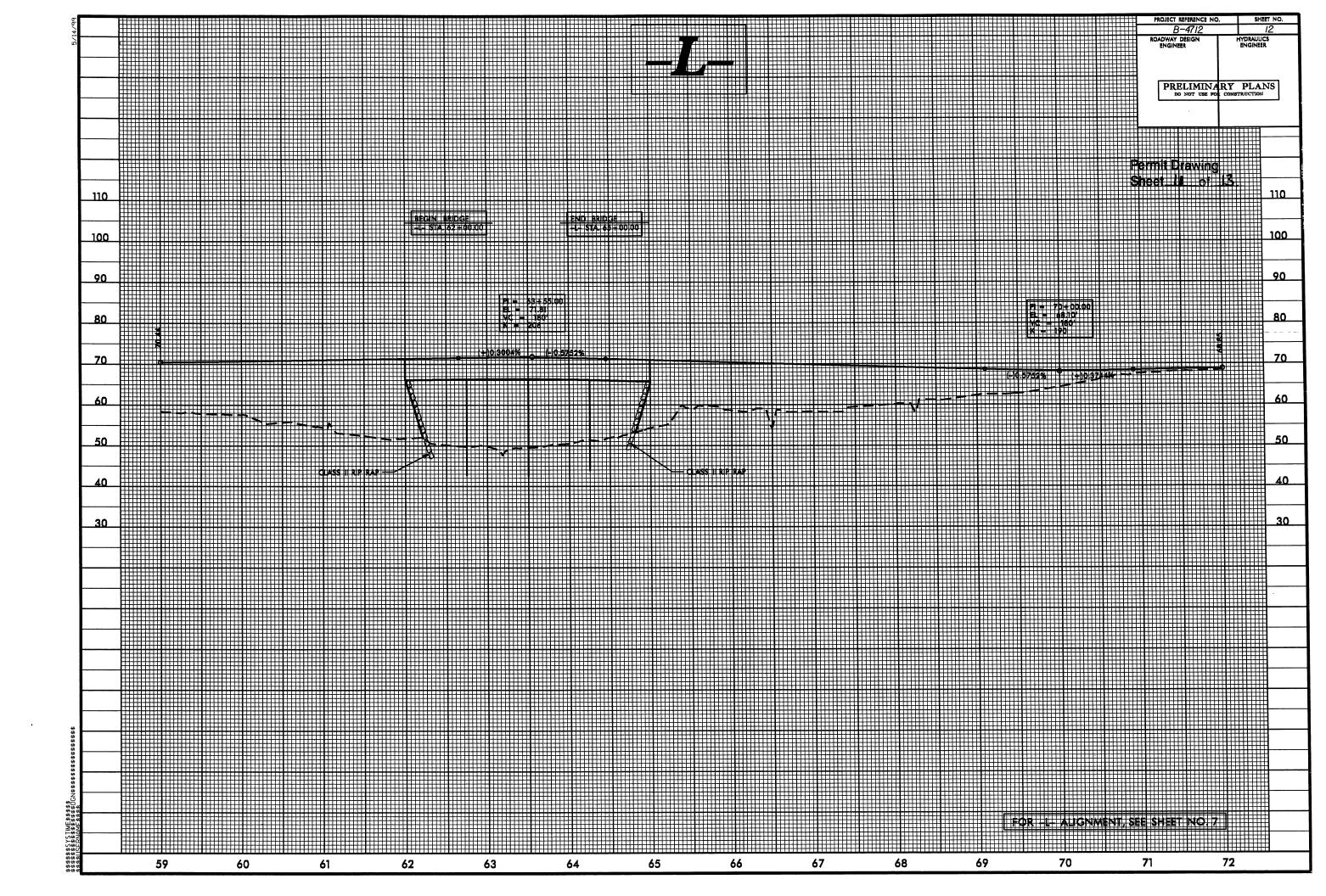












PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
2	BENJAMIN G. YOUNG AND WIFE RUBY	756 McARTHUR ROAD FAYETTEVILLE, N.C. 28311
3	BARBARA T. & DANNY MERRITT	1340 S. BLADEN UNION ROAD FAYETTEVILLE, N.C. 28306

Permit Drawing
Sheet 12 of 13

NCDOT

DIVISION OF HIGHWAYS BLADEN COUNTY PROJECT: 37912.1.1 (B-4712)

REPLACE BRG#188 AND BRG#189 OVER THE CAPE FEAR RIVER ON SR 1316

SHEET

OF

2/28/12

Station Structure Fill in Fill in Size / Type Wetlands Metlands Metlands						T T T		
Net								
Station Structure Station Structure Station Structure Fill in Fill in Clearing Impacts Station Structure Fill in Clearing Impacts Structure Fill in Clearing Impacts Structure Fill in Clearing Impacts Structure Structure Fill in Clearing Impacts Structure Structure Fill in Clearing Impacts Structure Structur	ACTS	Existing Channel Impacts Temp. (ft)						
Station Structure Station Structure Station Structure Fill in Fill in Clearing Impacts Station Structure Fill in Clearing Impacts Structure Fill in Clearing Impacts Structure Fill in Clearing Impacts Structure Structure Fill in Clearing Impacts Structure Structure Fill in Clearing Impacts Structure Structur	WATER IM	Existing Channel Impacts Permanent (ft)						
Station Structure Fill In Fill In in in in in in in in	.RY SURFACE	Temp. SW impacts (ac)	0.06	0.02				0.08
Station Structure Fill In Fill In in in in in in in in	CT SUMMA	Permanent SW impacts (ac)						
Station Structure Fill In Fill In in in in in in in in	MIT IMPA	Hand Clearing in Wetlands (ac)	0.45	0.08				0.53
Station Structure Fill In Fill In in in in in in in in	TLAND PER	Mechanized Clearing in Wetlands (ac)						
Station Structure Fill In Fill (From/To) Size / Type Wetlands Wetlands (ac) (ac) (ac) (ac) (ac) (ac) (ac) (ac)	WE LAND IMPA	Excavation in Wetlands (ac)						
Station Structure (From/To) Size / Type 34+80-45+50-L- BRIDGE 189 OVERFLOW (OAL-300')	WET	Temp. Fill In Wetlands (ac)	0.29	0.03				0.32
Station (From/To) 34+80-45+50-L- OVERFLOW		Permanent Fill In Wetlands (ac)						
		Structure Size / Type	BRIDGE 188 (OAL-1570')	BRIDGE 189 (OAL- 300')				
Site No. Or No.		Station (From/To)	34+80-45+50-L-	62+00-64+50-L- OVERFLOW				
		Site No.						TOTALS:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

BLADEN COUNTY
WBS - 37912.1.1 (B-4712)

4/23/2012

Permit Drawing Sheet 13 of 13

STRUCTURES NOTED THAT LESS THAN 0.01 AC. WILL BE IMPACTED FROM BRIDGES

ATN Revised 3/31/05

B-4712 NEU Narrative

Utility Owners:

Power: Four County EMC – (contact: Edward Pope 910-259-1854)
 Telecommunications Palmetto - Net – (contact Scott Temple 919-291-0813)

General Utility Relocation:

All utility lines inside the project limits will be adjusted as necessary or relocated away from the construction limits. The aerial power transmission pole line and underground telecommunication lines will be relocated or adjusted prior to the date of availability.

Existing Utilities:

- **Power:** the existing Four County EMC aerial power transmission pole line is on the west side of SR 1316 (Tarheel Ferry Road).
- **Telecommunications:** the existing Telephone Communication lines (fiber optic and copper cables) are underground on the west side of SR 1316 (Tarheel Ferry Road).

Proposed Utility Relocation:

- **Power:** Four County EMC will install a new power transmission pole line further left of Line –L- 50' inside the PUE line on the west side of SR 1316 (Tarheel Ferry Road) from
- Sta. 22+50 to Sta. 56+78.
- **Telecommunications:** Palmetto Net will adjust the fiber optic and copper cables left of Line –L- on the west side of SR 1316 (Tarheel Ferry Road) from Sta. 30+76 to Sta. 31+41.

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols TAR HEEL VICINITY MAP

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BLADEN COUNTY

Utility Permit Drawing Sheet ___of_6_

SHEET NO

UO-1

LOCATION: BRIDGE NOS. 12, 18 AND 42 OVER CAPE FEAR RIVER AND OVERFLOW ON NC 11

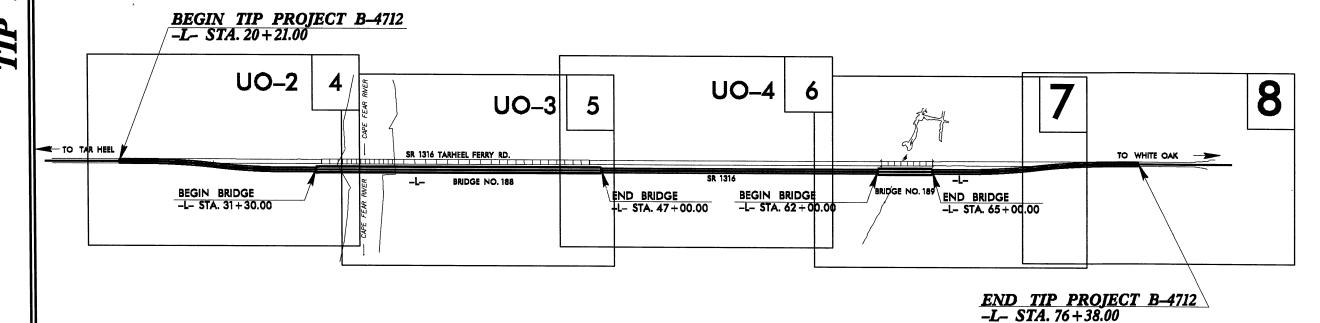
TYPE OF WORK: RELOCATE AERIAL TRANSMISSION POWER POLE LINES AND UG TELECOMUNICATION FIBER OPTIC AND COPPER CABLES TO THE WEST SIDE OF SR 1316 (TARHEEL FERRY ROAD)



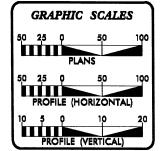
T.I.P. NO.

B-4712

NEU UTILITIES RELOCATION PERMIT PLANS 12 /13 /11



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS **DESCRIPTION**

SHEET NO. TITLE SHEET

UO-1

UO-2 THRU UO-4 UTILITIES BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

(1) POWER - FOUR COUNTY EMC (2) TELECOMMUNICATIONS - PALMETTO-NET



PREPARED IN THE OFFICE OF: DIVISION OF HIGHWAYS UTILITIES ENGINEERING

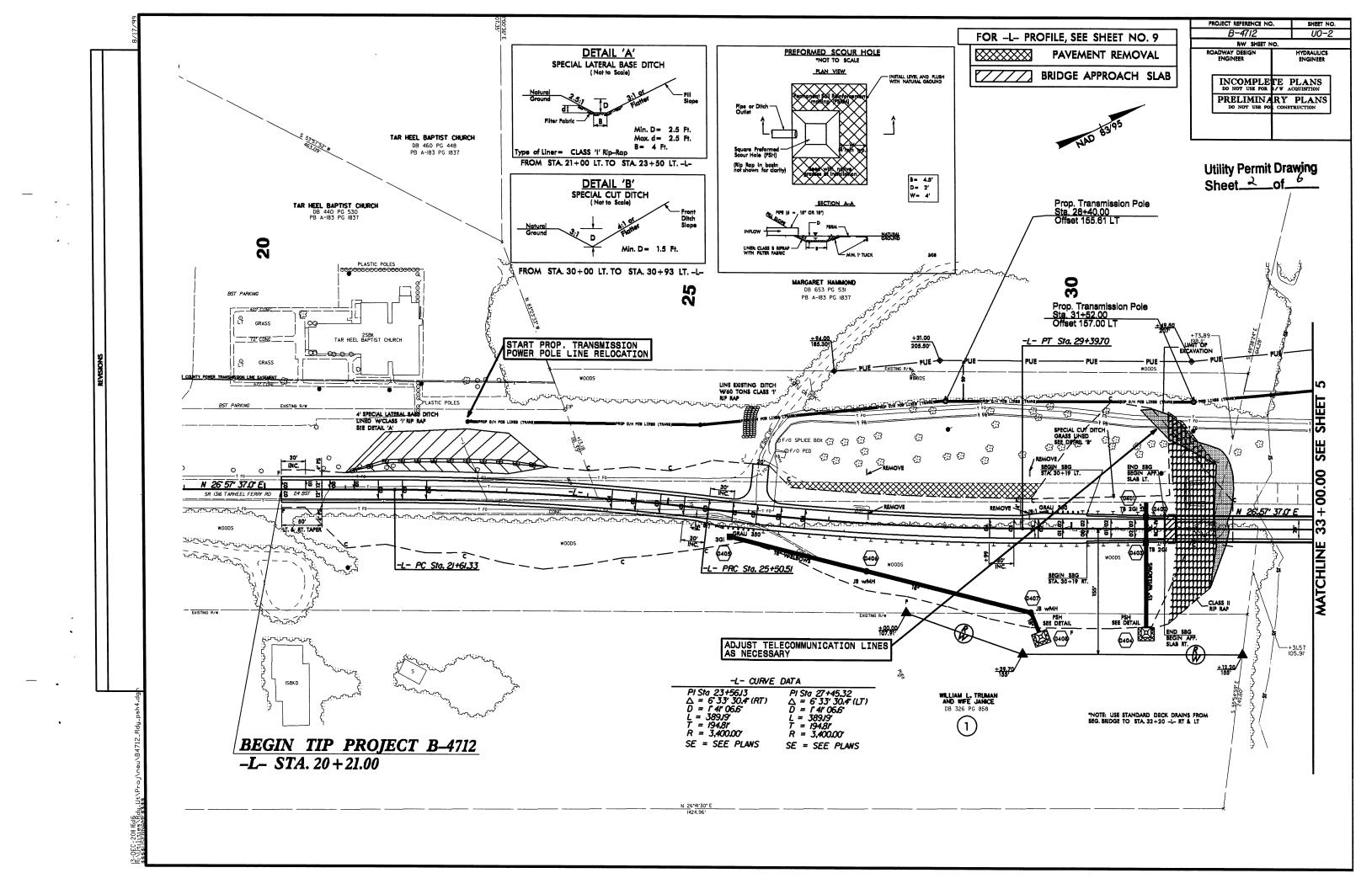
Roger Worthington, P.E. UTILITIES SECTION ENGINEER

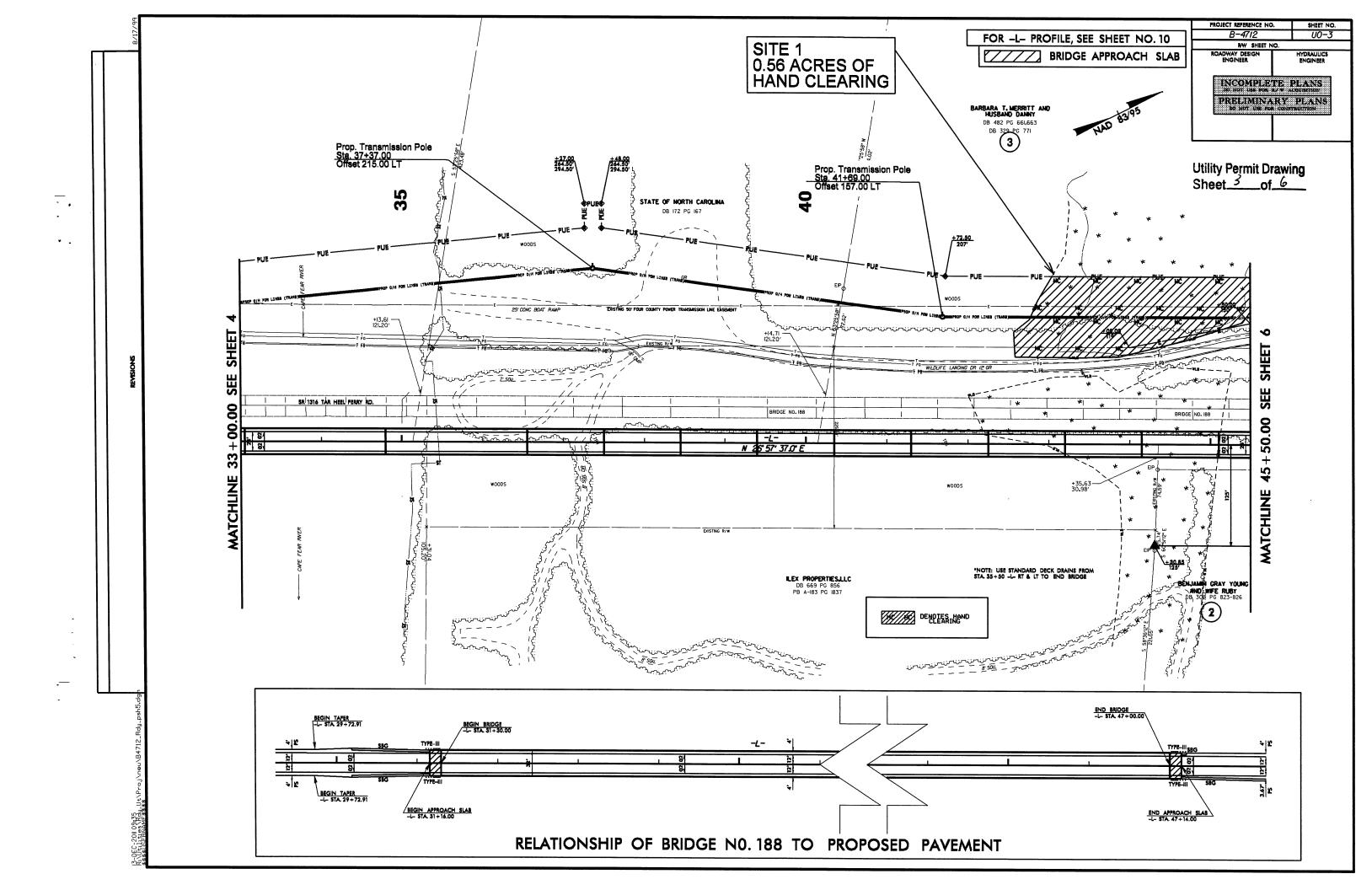
UTILITIES SQUAD LEADER PROJECT ENGINEER

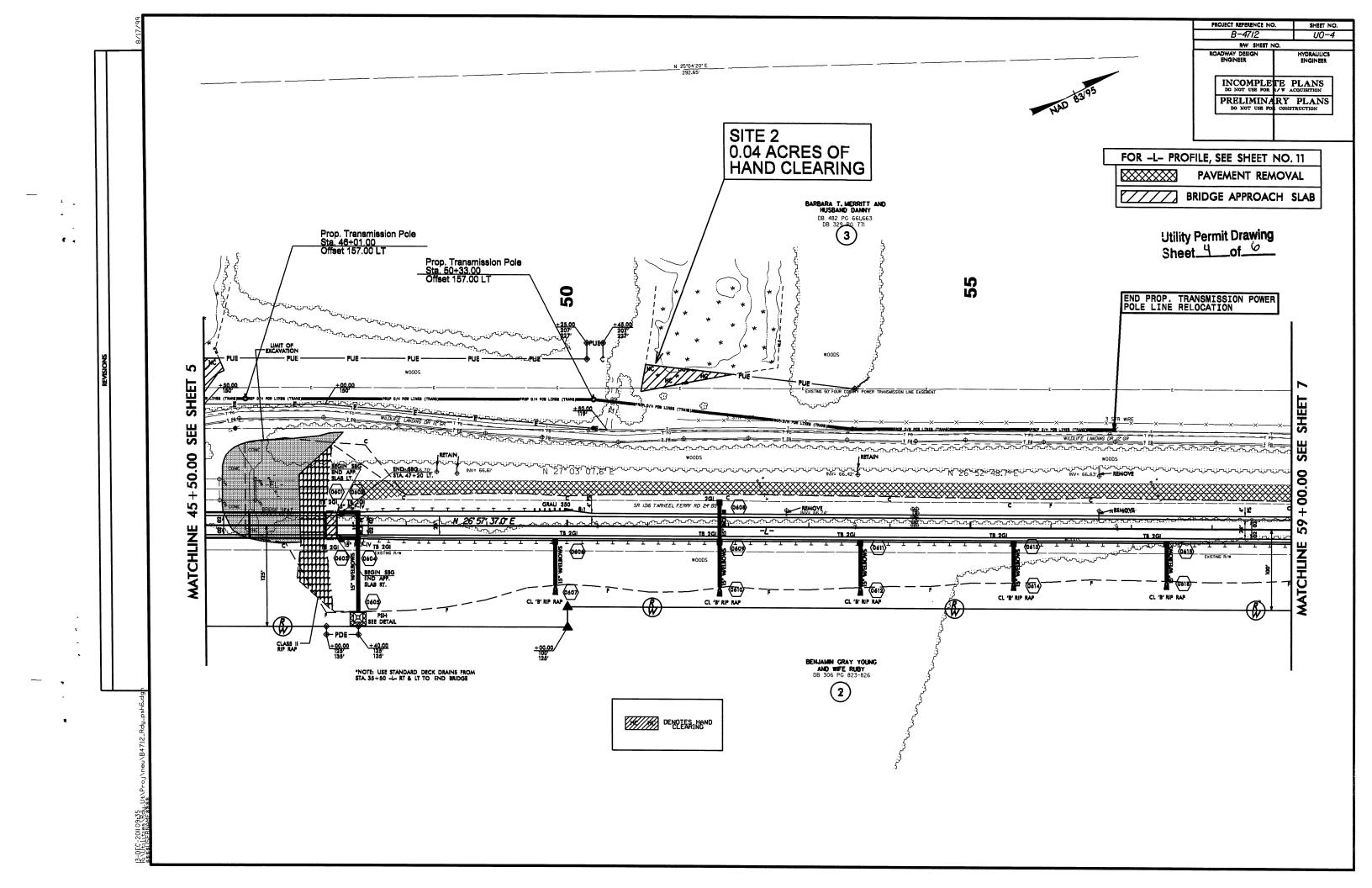
Eric Haugaard, P.E. UTILITIES PROJECT DESIGNER

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PROIECT







PROPERTY OWNERS

NAMES AND ADDRESSES

REFERENCE NO.

NAMES

ADDRESSES

03

BARBARA T. MERRITT AND HUSBAND DANNY

Utility Permit Drawing Sheet 5 of 4

NCDOT

DIVISION OF HIGHWAYS BLADEN COUNTY PROJECT: B-4712

BRIDGE NO.188 AND NO.189 OVER THE CAPE FEAR RIVER ON SR 1316

SHEET 1 OF 1 12/13/11

	PACTS	Existing	Channel	Impacts	E																
	SURFACE WATER IMPACTS	Existing	Channel	Impacts	Permanent (ft)																
ΙRΥ	SURFACE		Temp.	S.	impacts (ac)	,															
CT SUMMA			Permanent	SW	impacts (ac)																
MIT IMPA			$\overline{\mathbf{o}}$.⊑	Wetlands	0.560		0.040												0.600	
WETLAND PERMIT IMPACT SUMMARY	CTS		Mechanized	in Clearing	in Wetlands	(02)															
×	WETLAND IMPACTS		Excavation	.⊑	Wetlands	(ac)															
	WET		Temp.	Fill	Wetlands	(90)															
			Permanent	Fill In	Wetlands	(90)															
				Structure	Size / Type	Down I ino	LOWEI LINE	Power Line													
				Station	(From/To)	40:57 to 45:75	42+5/ 10 45+/5	50+92 to 52+05												_	
				Site	Š	1	Site 1	Site 2												TOTALS	

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

COUNTY
WBS - 37912.1.1 (B-4712)

WBS - 379

12/13/2011

Utility Permit Drawing Sheet_____of___

ed 3/31/05

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols ↓ TAR HEEL VICINITY MAP

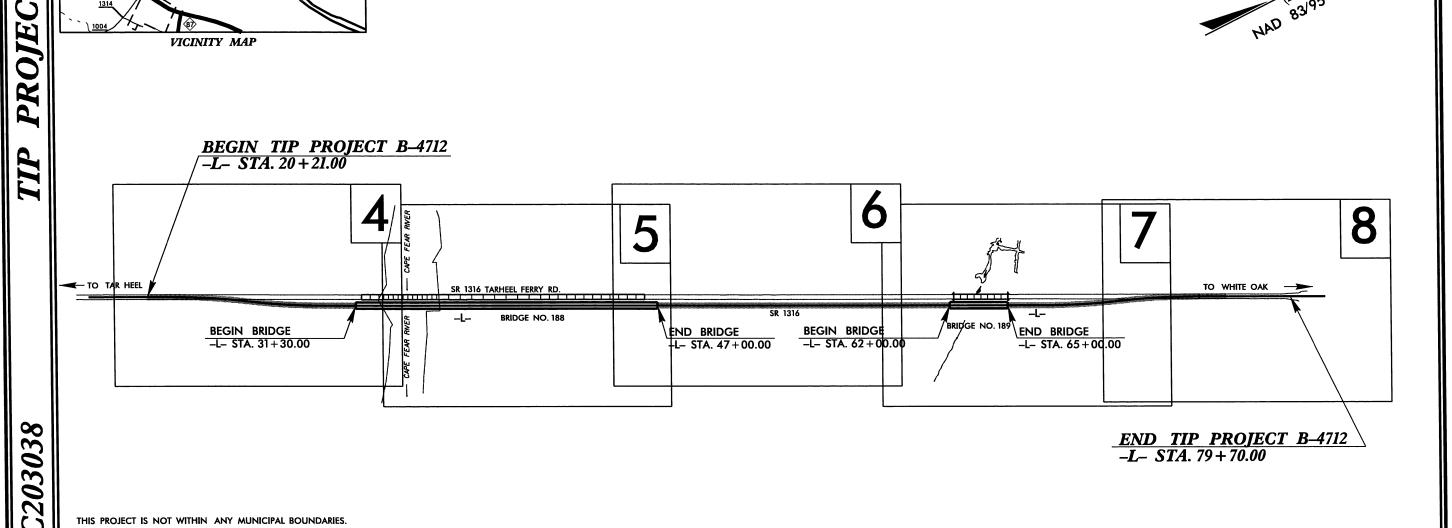
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

BLADEN COUNTY

STATE N.C. B-4712 STATE PROLNO. P. A. PROJ. NO. 37912.1.1 BRZ-1316(6) R/W & UTILITIES 37912.2.1 BRZ-1316(6)

LOCATION: BRIDGE NO. 188 AND NO. 189 OVER THE CAPE FEAR RIVER ON SR 1316 TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURES

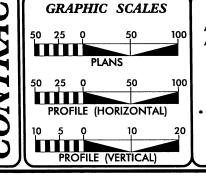




THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

THIS PROJECT WAS DESIGNED USING THE SUB REGIONAL TIER GUIDELINES FOR BRIDGE PROJECTS. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2013 = 3417ADT 2033 = 5584

DHV = 13 %D = 55 %T = 18 % *V = 60 MPH

TTST =13% DUAL =5% FUNC CLASS = RURAL COLLECTOR SUB-REGIONAL TIER

PROJECT LENGTH

= 0.773 MILES LENGTH ROADWAY TIP PROJECT B-4712 LENGTH STRUCTURES TIP PROJECT B-4712 = 0.354 MILES TOTAL LENGTH TIP PROJECT B-4712 = 1.127 MILES

DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610 2012 STANDARD SPECIFICATIONS

Prepared in the Office of:

RIGHT OF WAY DATE: FEBRUARY 17, 2012 LETTING DATE:

FEBRUARY 19, 2013

KEVIN E. MOORE, PE

GARY LOVERING, PE

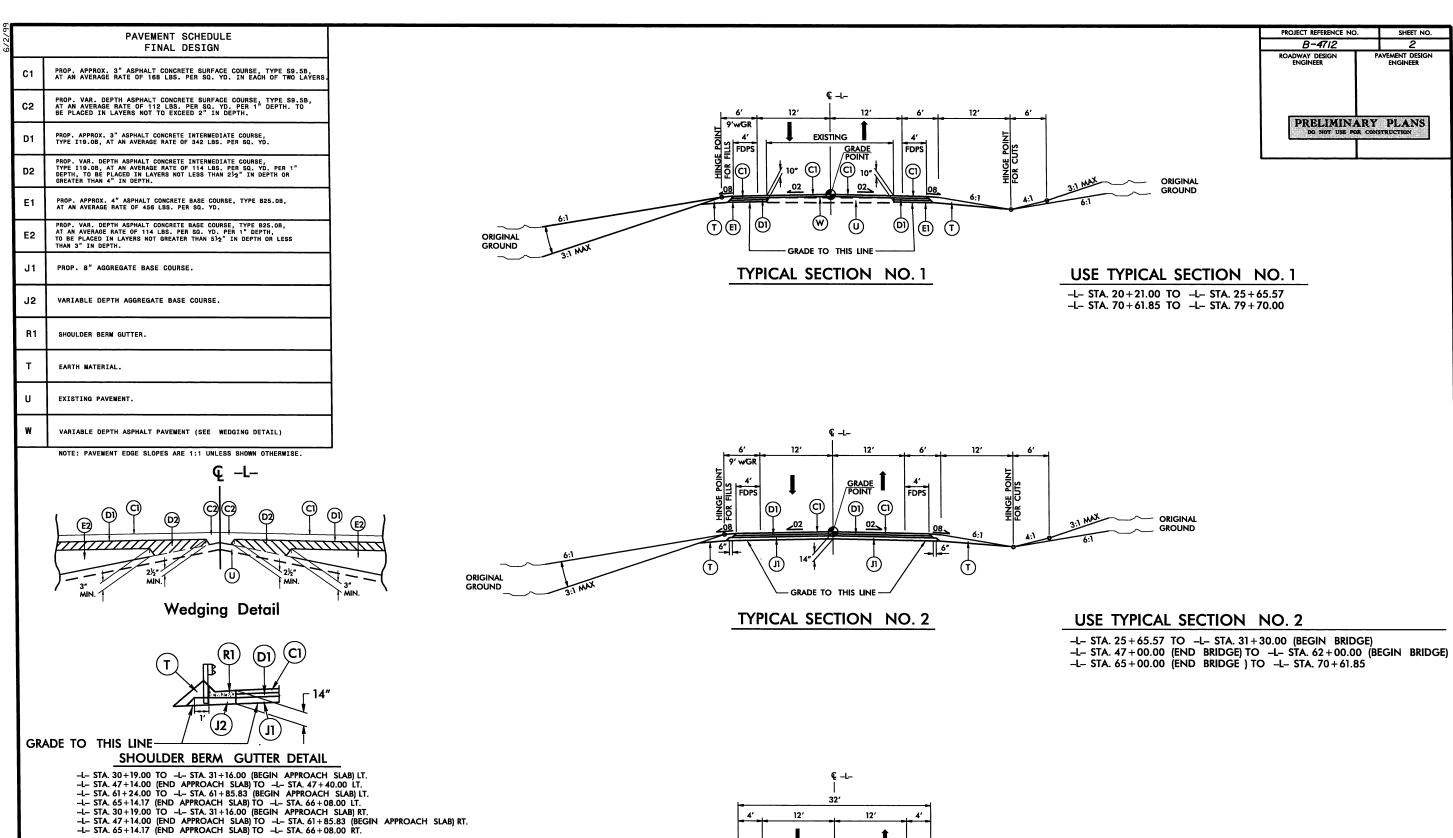
HYDRAULICS ENGINEER

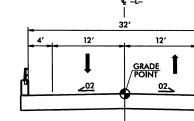
-L-STA.79+70.00

ROADWAY DESIGN **ENGINEER**



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TYPICAL SECTION ON STRUCTURE

USE TYPICAL SECTION ON STRUCTURE

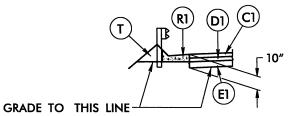
-L- STA. 31+30.00 (BEGIN BRIDGE) TO -L- STA. 47+00.00 (END BRIDGE) -L- STA. 62+00.00 (BEGIN BRIDGE) TO -L- STA. 65+00.00 (END BRIDGE)

B-4712

PRELIMINARY PLANS
DO NOT USE POR CONSTRUCTION

ROADWAY DESIGN ENGINEER

AVEMENT DESIGN



DETAIL SHOWING SHOULDER BERM GUTTER ON TOP OF SUBGRADE

-L- STA. 70+79.00 TO -L- STA. 71+70.00 RT.

