

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

December 11, 2009

Mr. Tom Steffens U. S. Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27889-1000

Mr. Stephen Lane N.C. Dept. of Environment and Natural Resources Division of Coastal Management 400 Commerce Avenue Morehead City, NC 28557

Dear Sirs:

Subject:

Application for Section 404 Nationwide Permit 23, Section 401 Water Quality Certification, Buffer Authorization, and CAMA Major Development Permit for the Replacement of Bridge No. 59 on NC 99 over Jack Creek in Beaufort County, North Carolina. Federal Aid Project No. BRSTP-99(4), Debit \$475.00 from WBS Element 33693.1.1. TIP No. B-4417.

Please find enclosed the North Carolina Division of Coastal Management Major Permit Forms, Pre-Construction Notification (PCN) form, permit drawings, design plans, utility plans, EEP acceptance letter, and stormwater management plan for the above referenced project. The adjacent riparian landowner return receipts will be forwarded upon receipt. A Categorical Exclusion (CE) was completed for this project on July 15, 2008, and distributed shortly thereafter. Additional copies are available upon request. The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace the existing 76-foot Bridge No. 59 with a 200-foot bridge over Jack Creek on NC 99 in Beaufort County. Proposed permanent impacts are 0.02 acre to coastal wetlands due to fill and 0.07 acre of fill in surface waters. The proposed let date for the project is May 17, 2011 with a review date of March 29, 2011. However, the let date may advance as additional funds become 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 a Nationwide Permit 23 (72 CFR; 11092-11198, March 12, 2007).

TELEPHONE: 919-431-2000 FAX: 919-431-2002 WEBSITE: WWW.NCDOT.ORG LOCATION: 4701 ATLANTIC AVENUE SUITE 116 RALEIGH NC 27604 <u>Section 401 Permit</u>: We anticipate 401 General Certification number 3701 will apply to this project. NCDOT is providing five copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their approval.

<u>Tar-Pamlico Riparian Buffer Authorization:</u> NCDOT is requesting a Tar-Pamlico Riparian Buffer Authorization from the NCDWQ.

<u>CAMA</u>: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The landowner receipts are provided with this permit application. Authorization to debit the \$475 Permit Application Fee from WBS Element 33693.1.1 is hereby given.

A copy of this permit application will be posted on the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/. Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 431-6748.

Sincerely,

E.L. Luck

Gregory J. Thorpe, Ph.D., Environmental Management Director Project Development and Environmental Analysis Branch

cc:

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

Mr. Steve Sollod, NCDCM

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Victor Barbour, P.E., Project Services Unit

Mr. Mark Staley, Roadside Environmental

Mr. C. E. Lassiter, P.E., Div. 2 Engineer

Mr. Jay Johnson, Div. 2 Environmental Officer

Mr. Scott McLendon, USACE, Wilmington

Mr. Gary Jordan, USFWS

Mr. Travis Wilson, NCWRC

Mr. Ron Sechler, NMFS

Ms. Anne Deaton, NCDMF

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Ms. Beth Harmon, EEP

Mr. Phillip Ayscue, NCDOT External Audit Branch

Mr. John Williams, PDEA

APPLICATION for Major Development Permit



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applica	nv Landowner inte	orm	ation							
Business Name	Project Name (if applicable)									
NCDOT				B-4417 (3369	93.1.1)				
Applicant 1: First Name		MI		Last Name						
Gregory		J.		Thorpe						
Applicant 2: First Name		Mi		Last Name						
If additional applicants, plea	se attach an additional pag	ge(s)	with names l	isted.						
Mailing Address				PO Box		City		State		
1598 Mail Service Cente	r					Ralei	gh	NC		
ZIP	Country		Phone No.					X No.		
27699 1598	USA		919 - 431 -	- 2000 ext.			91	9 - 431 - 20	02	
Street Address (if different for	rom above)			City		State		ZIP		
٠									-	
Email										
2. Agent/Contract	or Information									
Business Name										
Agent/ Contractor 1: First N	lame	MI		Last Name						
Agent/ Contractor 2: First N	lame	MI		Last Name						
Mailing Address				PO Box	С	ity			State	
ZIP		Pho	one No. 1				Phone No.	2		
			-	- ex	t.		-	-	ext.	
FAX No.		Cor	ntractor #							
Street Address (if different	from above)			City		State		ZIP		
									-	
Email										

<Form continues on back>

3. Project Location	1 00000												
County (can be multiple)	Street Address				State Rd. #								
Beaufort					NC 99								
Subdivision Name		City		State	Zip								
					-								
Phone No.		<u> </u>	Lot No.(s) (if many, at	tach additional p	age with list)								
ext.			, ,	, ,									
a. In which NC river basin is the project	t located?		b. Name of body of wa	ater nearest to p	roposed project								
Tar-Pamlico			Jack Creek										
i e		ade?	d. Name the closest major water body to the proposed project site.										
	r planning jurisdiction?	•	f. If applicable, list the	planning jurisdi	ction or city limit the proposed								
LIYes ⊠No			work fails within.										
_	t (ft.)			,									
					•								
c. Size of individual lot(s)					e NHW (normal high water) or								
(If many lot sizes, please attach add	litional nage with a list	3	1	•	\ \ \/\								
	mioriai pago vilir a noi,	<u></u>	1.0 7.0										
_	shoulders and vard))											
	,,	•											
·													
f. Man-made features and uses now o	n tract												
Existing NC 99 road facility incl	uding ditches												
T		e propose	d project site.										
Existing NC 99 road facility, dit	ches; Residence												
h University of the land and the land t	t +0	- 1											
	ie tract?												
Residertual					applicable)								
i. Is the proposed activity part of an ur	ban waterfront redevel	lopment p			XÎNo								
			•										
K. Has a professional archaeological a	assessment been done	e for the tra	act? If yes, attach a copy	. ⊠Yes [_No LJNA								
If yes, by whom?				NCDOT	Archaeology								
	National Registered H	istoric Dis	trict or does it involve a	•••									
National Register listed or eligible p	roperty?				3.40 <u> </u>								
unity (can be multiple) authort City													
State Rd. # NC 99													
m. (i) Are there wetlands on the site?			L-3 -,	⊠Yes I	TNo								
, , , , , , , , , , , , , , , , , , ,				<u> </u>									
(ii) Are there coastal wetlands on t	he site?			⊠Yes [□No								
(iii) If you to oithor (i) or (ii) shows	haa a dalinaatiaa kaas		v40	⊠ v !	¬ы.								
(iii) If yes to either (i) or (ii) above, (Attach documentation, if availa		i conducte	#U f	⊠Yes [_INO								
, , , , , , , , , , , , , , , , , , , ,													

n. Describe existing wastewater treatment facilities.				
N/A				
NA				
a. Describe evicting drinking water supply source				
o. Describe existing drinking water supply source. N/A				
p. Describe existing storm water management or treatment systems.				
None				
NOTE				
5. Activities and Impacts				
	Comme			overnment
	□Private/	Commu	ınity	
b. Give a brief description of purpose, use, and daily operations of the project when complete.				
Replace existing bridge due to low sufficiency rating. Lengthen bridge and improve addition of guardrail	road faci	lity and	d safety wi	th widening and
 Describe the proposed construction methodology, types of construction equipment to be used of equipment and where it is to be stored. 	during co	nstruction	on, the num	ber of each type
Propose top/down construction with no temporary causeway(s). Typical construction dump trucks, motor grader, etc.	n equipm	ent inc	cludes crar	ne, bulldozer,
d. List all development activities you propose.				
Replace/Lengthen bridge; Remove portion of existing road fill/causeway to improve surface water being filled in. Addition of fill due to widening facility and raising of the be raised to provide access for future bridge maintenance/inspection activities. Relocation	existing	road g	rade. The	e grade has to
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both			
G F - 3-3,	Dour			
f. What is the approximate total disturbed land area resulting from the proposed project?	2.2		□Sq.Ft o	r ⊠Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	⊠Yes	□No	□NA	
h. Describe location and type of existing and proposed discharges to waters of the state.				
Existing ditches drain to creek/wetlands in all 4 quadrants. Propose shoulder berm outlet to grassed swales. East side of road will drain over grassed shoulders to gras			side of roa	ed which will
i. Will wastewater or stormwater be discharged into a wetland?	□Yes	⊠No	□NA	
If yes, will this discharged water be of the same salinity as the receiving water?	□Yes	□No	□NA	
j. Is there any mitigation proposed?	⊠Yes	□No	□NA	
If yes, attach a mitigation proposal.				
<form back="" continues="" on=""></form>				
6. Additional Information				
In addition to this completed application form, (MP-1) the following items below, if applicable, must package to be complete. Items (a) – (f) are always applicable to any major development application instruction booklet on how to properly prepare the required items below.	st be subr tion. Plea	mitted in se cons	order for the order the order	he application lication
a. A project narrative.				
 An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scal proposed project. Is any portion already complete? If previously authorized work, clearly indi between work completed and proposed. 				
c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the	e area to t	he site.		

d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
e. The appropriate application fee. Check or money order made payable to DENR.
f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.
Name See attached list
Phone No.
Address
Name
Phone No.
Address
Name
Phone No.
Address
·
g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
h. Signed consultant or agent authorization form, if applicable.
h. Signed consultant or agent authorization form, if applicable. i. Wetland delineation, if necessary.
i. Wetland delineation, if necessary.
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application.
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project. I further certify that the information provided in this application is truthful to the best of my knowledge.
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project. I further certify that the information provided in this application is truthful to the best of my knowledge.
 i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.
i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project. I further certify that the information provided in this application is truthful to the best of my knowledge. Date 12 10 19 Print Name Signature Signature Signature
i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project. I further certify that the information provided in this application is truthful to the best of my knowledge. Date 2 10 0 9 Print Name 7. LUSIC
i. Wetland delineation, if necessary. j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner) k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. 7. Certification and Permission to Enter on Land I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit. I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project. I further certify that the information provided in this application is truthful to the best of my knowledge. Date 12 10 0 9 Print Name Signature Print Name Signature Signature

Form DCM MP-2

EXCAVATION and **FILL**

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. All values should be given in feet.

	Access Channel (NLW or NWL)	Canal	Boat Basin	Boat Ramp	Rock Groin	Rock Breakwater	Other (excluding shoreline stabilization)			
Length							395'			
Width							13'			
Avg. Existing Depth					NA	NA	5'			
Final Project Depth					NA	NA	8'			
1. EXCAVAT						☑This section not applicable				
a. Amount of ma cubic yards.	terial to be excavate	d from below NH	W or NWL in	b. Type of mater	ial to be excavated					

a.	Amount of material to be excavated from below NHW or NWL in cubic yards.	b.	Type of material to be excavated.
C.	(i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW	_ d.	High-ground excavation in cubic yards.
2.			☑This section not applicable
a.	Location of disposal area.	b.	Dimensions of disposal area.
C.	(i) Do you claim title to disposal area? ☐Yes ☐No ☐NA (ii) If no, attach a letter granting permission from the owner.	d.	(i) Will a disposal area be available for future maintenance? ☐Yes ☐No ☐NA (ii) If yes, where?
e.	(i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW SAV SB WL None (ii) Describe the purpose of disposal in these areas:	f.	(i) Does the disposal include any area in the water? ☐Yes ☐NO ☐NA (ii) If yes, how much water area is affected?
3.	SHORELINE STABILIZATION (If development is a wood grain, use MP.4. Structures)		☐This section not applicable

(If development is a wood groin, use MP-4 – Structures)

Form DCM MP-2 (Excavation and Fill, Page 2 of 2)

a.	Type of shoreline stabilization:	b.	Length: 395'
	□Bulkhead ☑Riprap □Breakwater/Sill □Other:		Width: 13'
C.	Average distance waterward of NHW or NWL: 6'	d.	Maximum distance waterward of NHW or NWL: 15'
e.	Type of stabilization material: Class II Rip Rap w/ Filter Fabric	f.	 (i) Has there been shoreline erosion during preceding 12 months? ☐ Yes ☒ No ☐ NA (ii) If yes, state amount of erosion and source of erosion amount information.
g. i.	Number of square feet of fill to be placed below water level. Bulkhead backfill Riprap 3040 sq ft Breakwater/Sill Other Source of fill material.	h.	Type of fill material. Class II Rip Rap; Select embankment fill material
4.	OTHER FILL ACTIVITIES (Excluding Shoreline Stabilization)		☑This section not applicable
a.	(i) Will fill material be brought to the site?	b.	(i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW
5.	GENERAL		
а.	How will excavated or fill material be kept on site and erosion controlled? Use of Standard NCDOT Best Management Practices and erosion control measures.	b.	What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)? Crane, bulldozer, dump truck, motor grader
c.	 (i) Will navigational aids be required as a result of the project? ☐Yes ☒No ☐NA (ii) If yes, explain what type and how they will be implemented. 	d.	 (i) Will wetlands be crossed in transporting equipment to project site? ☐Yes ☒No ☐NA (ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.
	12-10 · 09	Ar	oplicant Signature
Pr	13 - 4417 oject Name	_	
At	NCDOT - Gregory J. Thorpoplicant Name	e, l	PhD

252-808-2808 :: 1-888-4RCOAST :: www.nccoastalmanagement.net

revised: 12/26/06

Form DCM MP-5

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	BRIDGES		☐This section not applicable
a.	Is the proposed bridge: ☐Commercial ☐Public/Government ☐Private/Community	b.	Water body to be crossed by bridge: Jack Creek
C.	Type of bridge (construction material): 4 @ 50' 21" Cored Slab	d.	Water depth at the proposed crossing at NLW or NWL: Varies 5' - 10'
e.	(i) Will proposed bridge replace an existing bridge? ☑Yes ☐No	f.	(i) Will proposed bridge replace an existing culvert? ☐Yes ☒No If yes,
	 (ii) Length of existing bridge: 75.5' (iii) Width of existing bridge: 23.5' (iv) Navigation clearance underneath existing bridge: 2.5' (v) Will all, or a part of, the existing bridge be removed? (Explain) All the existing bridge will be removed. Portion of existing road fill will be removed. 		 (ii) Length of existing culvert: (iii) Width of existing culvert: (iv) Height of the top of the existing culvert above the NHW or NWL: (v) Will all, or a part of, the existing culvert be removed? (Explain)
g. i.	Length of proposed bridge: 200' Will the proposed bridge affect existing water flow? ☑Yes ☐No If yes, explain: Longer bridge and removed fill will improve bridge conveyance and reduce velocities.	h. j.	Width of proposed bridge: 39' Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☑Yes □No If yes, explain: Bridge opening will increase from existing 75.5' x 2.5' to 200' x 4.9'
k.	Navigation clearance underneath proposed bridge: 4.9'	1.	Have you contacted the U.S. Coast Guard concerning their approval? ☐Yes ☐No If yes, explain: Coast Guard is in the process of evaluating project.
m.	Will the proposed bridge cross wetlands containing no navigable waters? ☐Yes ☑No If yes, explain:	n.	Height of proposed bridge above wetlands:
2.	CULVERTS	••	☑ This section not applicable
a.	Number of culverts proposed:	b.	Water body in which the culvert is to be placed:
C.	Type of culvert (construction material):	tinue	es on back>

Form DCM MP-5 (Bridges and Culverts, Page 2 of 4)

d.	(i) Will proposed culvert replace an existing bridge? ☐Yes ☐No	e.	(i) Will proposed culvert replace an existing culvert? ☐Yes ☐No
	If yes,		If yes,
	(ii) Length of existing bridge:		(ii) Length of existing culvert(s):
	(iii) Width of existing bridge:		(iii) Width of existing culvert(s):
	(iv) Navigation clearance underneath existing bridge:		(iv) Height of the top of the existing culvert above the NHW or NWL:
	(v) Will all, or a part of, the existing bridge be removed? (Explain)		(v) Will all, or a part of, the existing culvert be removed? (Explain)
f.	Length of proposed culvert:	g.	Width of proposed culvert:
h.	Height of the top of the proposed culvert above the NHW or NWL.	i.	Depth of culvert to be buried below existing bottom contour.
j.	Will the proposed culvert affect navigation by reducing or	k.	Will the proposed culvert affect existing water flow?
	increasing the existing navigable opening?		□Yes □No
	If yes, explain:		If yes, explain:
	·		
3.	EXCAVATION and FILL		☐This section not applicable
a.	(i) Will the placement of the proposed bridge or culvert require any	b.	(i) Will the placement of the proposed bridge or culvert require any
	excavation below the NHW or NWL?		excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands
	If yes,		(WL)? If any boxes are checked, provide the number of square
	(ii) Avg. length of area to be excavated: 124'		feet affected.
	(iii) Avg. width of area to be excavated: 78'		□CW □SAV □SB □WL ⊠None
	(iv) Avg. depth of area to be excavated: 5'		□WL ⊠None
	(v) Amount of material to be excavated in cubic yards: 2390 cu		(ii) Describe the purpose of the excavation in these areas:
	<u>yu</u>		(ii) Describe the purpose of the excavation in these areas.
c.	(i) Will the placement of the proposed bridge or culvert require any high-ground excavation? ☐No		
	If yes,		
	(ii) Avg. length of area to be excavated: 460'		
	· · · · · · · · · · · · · · · · · · ·		
	(iii) Avg. width of area to be excavated: 12'		
	(iii) Avg. width of area to be excavated: 12' (iv) Avg. depth of area to be excavated: 2.0'		
	 (iii) Avg. width of area to be excavated: 12' (iv) Avg. depth of area to be excavated: 2.0' (v) Amount of material to be excavated in cubic yards: 200 cu 		

252-808-2808 :: 1-888-4RCOAST :: <u>www.nccoastalmanagement.net</u> revised: 10/26/06

Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

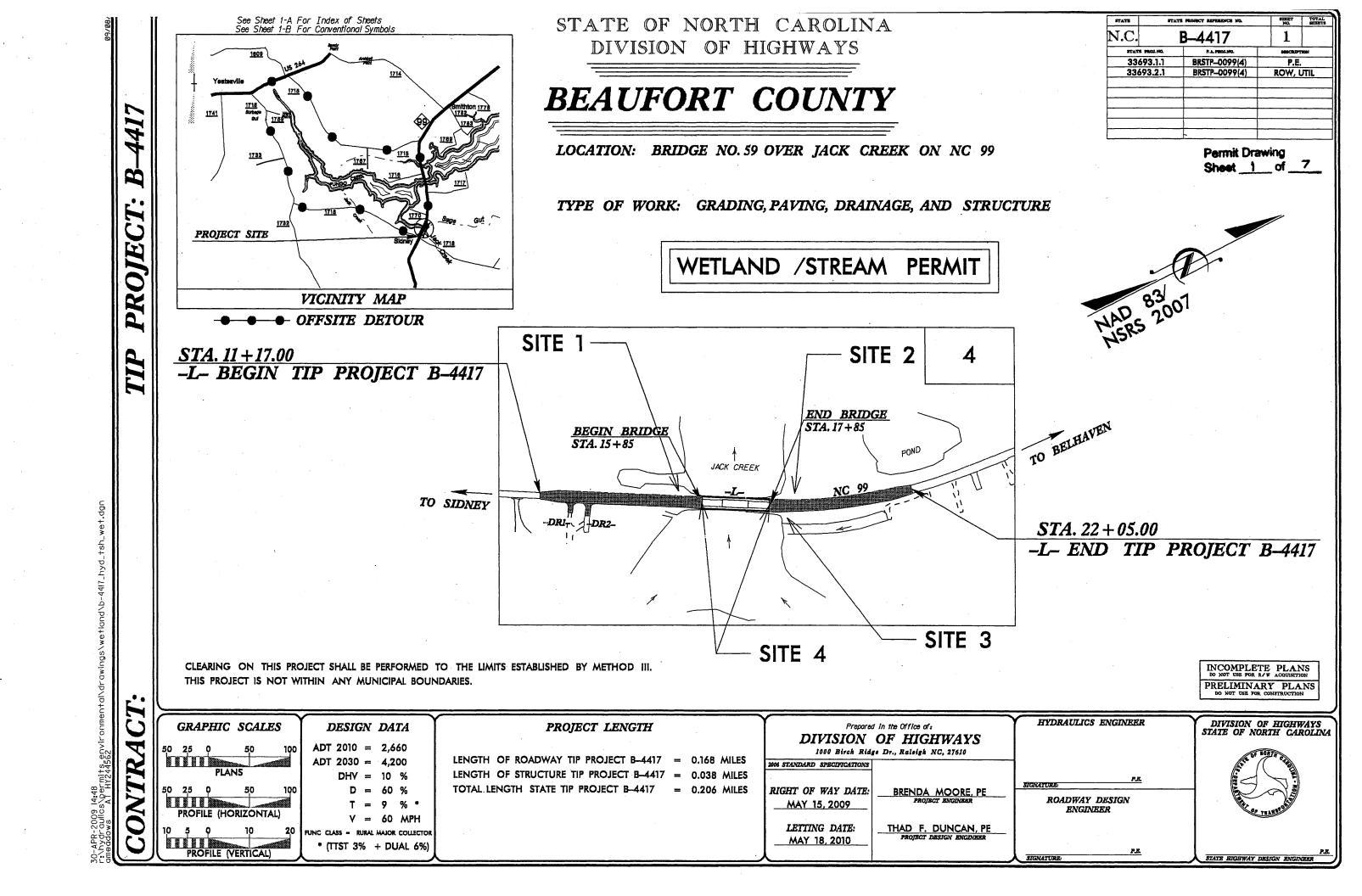
d.	If the placement of the bridge or culvert involves any excavation, please		
	(i) Location of the spoil disposal area: To be determined by contra	actor	
	(ii) Dimensions of the spoil disposal area: TBD (iii) Do you claim title to the disposal area? ☐Yes ☒No (If no, atta (iv) Will the disposal area be available for future maintenance? ☐Yes (v) Does the disposal area include any coastal wetlands/marsh (CW), bottom (SB)? ☐CW ☐SAV ☐WL ☐SB ☒None If any boxes are checked, give dimensions if different from (ii) abo (vi) Does the disposal area include any area below the NHW or NWL?	s ⊠l subm	No rerged aquatic vegetation (SAVs), other wetlands (WL), or shell
	If yes, give dimensions if different from (ii) above.		
e.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL?	f.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
g.	 (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground?		
4.	GENERAL		
a.	Will the proposed project require the relocation of any existing utility lines?	b.	Will the proposed project require the construction of any temporary detour structures? ☐Yes ☑No If yes, explain:

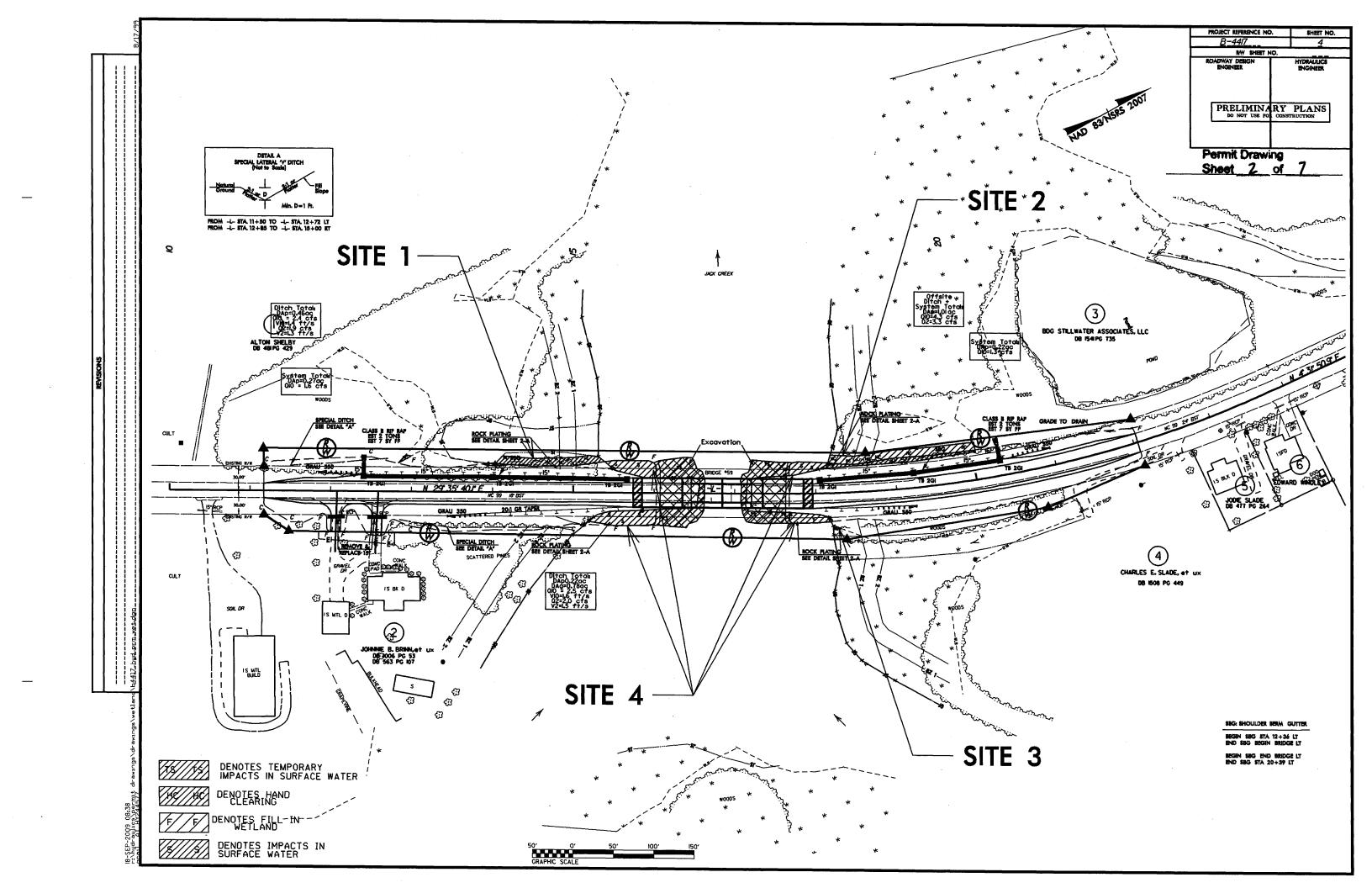
Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)

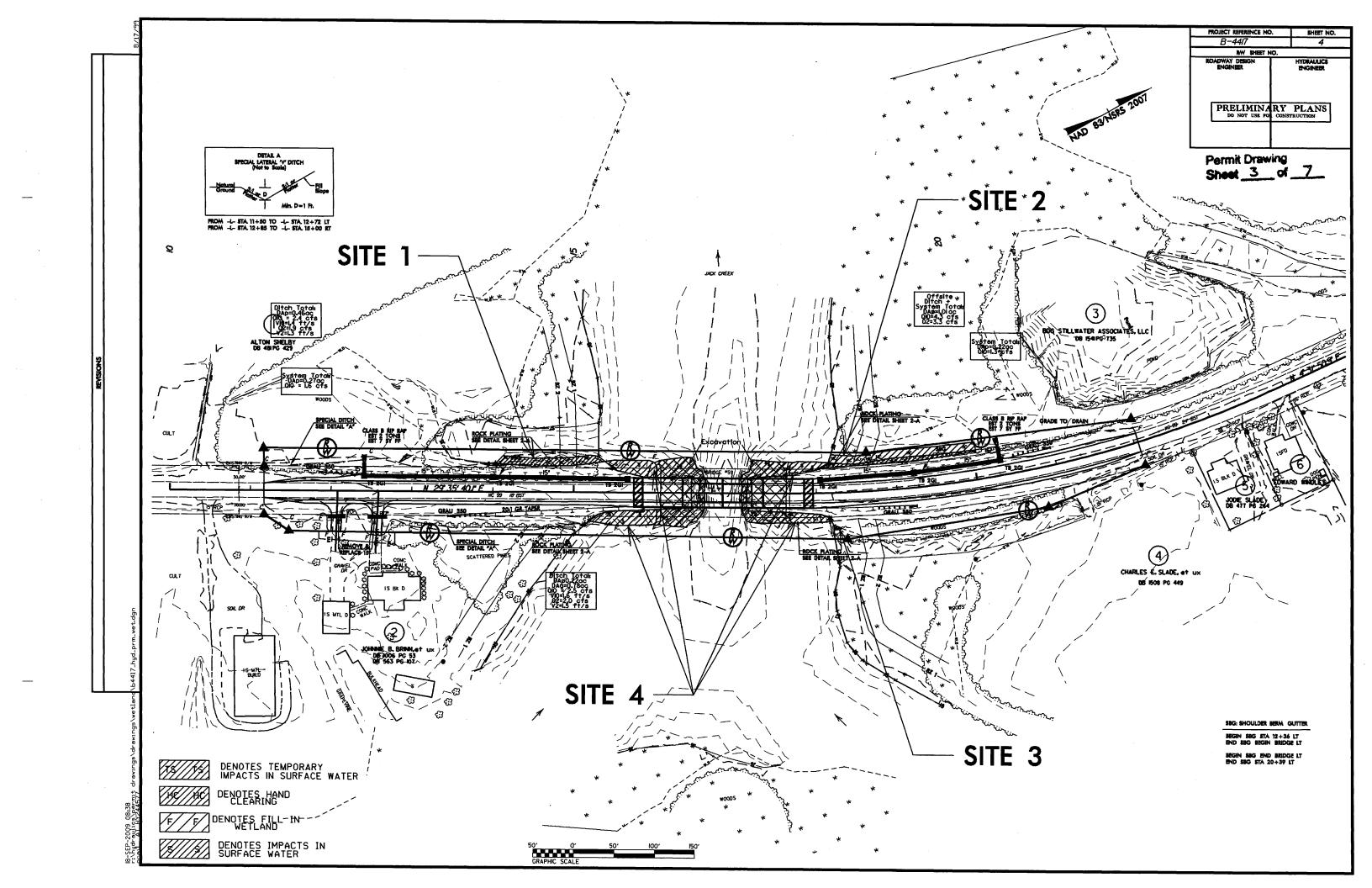
If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

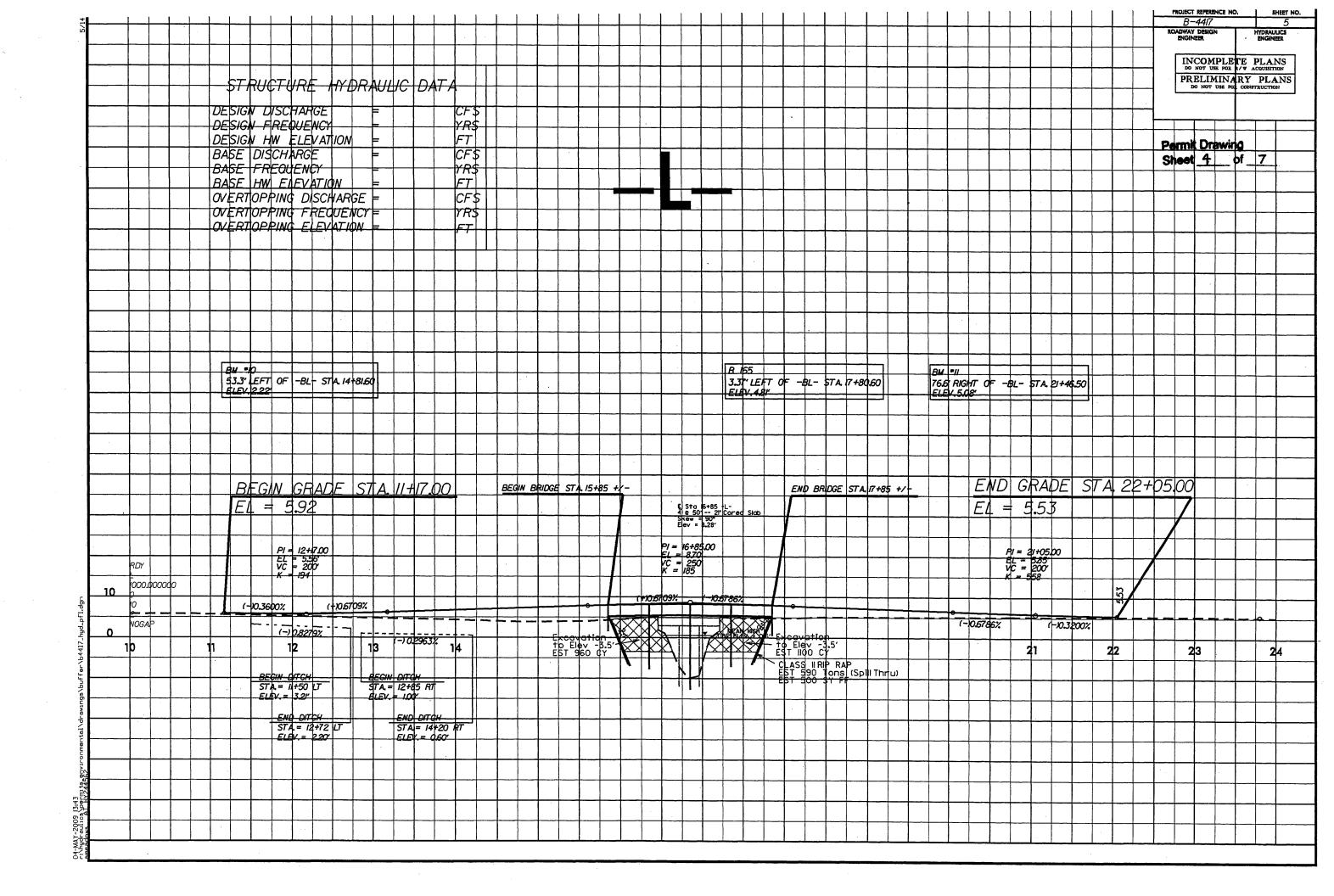
< Form continues on back>

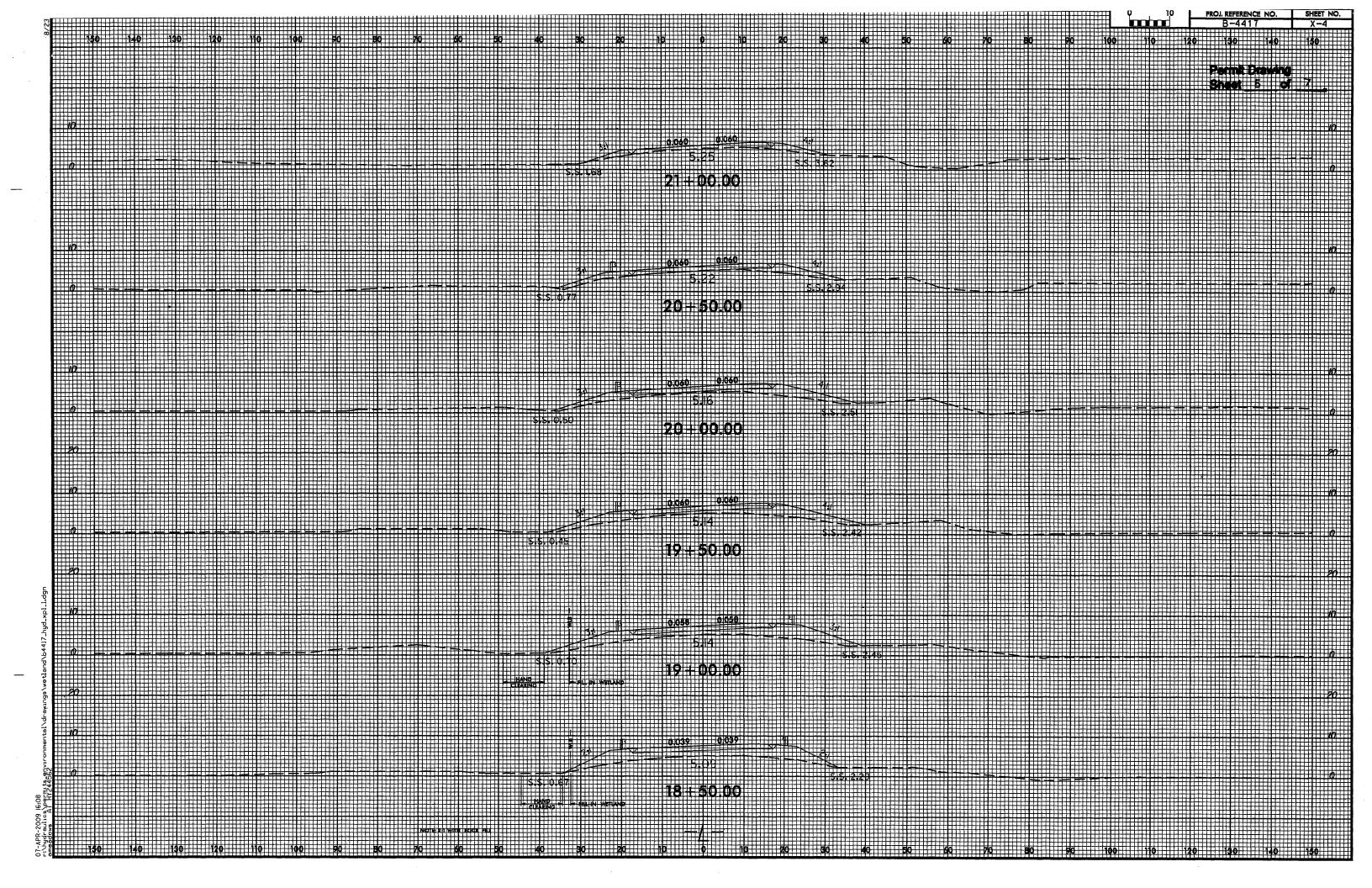
C.	Will the proposed project require any work channels? ☐Yes ☐No If yes, complete Form DCM-MP-2.	d.	How will excavated or fill material be kept on site and erosion controlled? Use of Standard NCDOT Best Management Practices and erosion control measures.					
e.	What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)? Crane, bulldozer, dump truck, motor grader	f.	Will wetlands be crossed in transporting equipment to project site? ☐Yes ☒No If yes, explain steps that will be taken to avoid or minimize environmental impacts.					
g.	Will the placement of the proposed bridge or culvert require any shoreline stabilization? ✓ Yes ☐ No If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.							
Ap	12-10-09 18 - 4417 Deplicant Name E. L. Luck Deplicant Signature	- mpe	, PhO					











	Т					1		1	1	1		_				 	 	 	 	 -	\neg
		Natural	Stream	Design	E												1				ļ
ACTS	Evicting	Channel	Impacts	Temp.	Œ								,								
.RY SURFACE WATER IMPACTS	inting	Channel	Impacts	Permanent	(E)																
ARY SURFACE		Temp.	SW	impacts	(ac)				0.11												0.11
CT SUMM		Permanent	SW	impacts	(ac)				0.07												0.07
MIT IMPA		Clearing	.⊑	Wetlands	(ac)	0.03	0.04	\$0.04							-						0.07
WETLAND PERMIT IMPACT SUMMARY	2	Excavation Mechanized	Clearing	<u>=</u>	(ac)																
WETLAWD IMPACTS		Excavation	.⊆	Wetlands	(ac)																
WET	AVE.	Temu	트	Wetlands	(ac)																
		Dermanent	L III	Wetlands	(ac)		0.02														0.02
			Structure	Size / Type		Road Fill	Road Fill	Road Fill	Bank Stabilization												
			Station	(From/To)		14+00 LT/15+53 LT	18+15 LT/20+04 LT	18+18 RT	15+19 CL/18+19 CL												
			o di	Š Š		-	2	က	-												TOTALS:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

0.01 acres of Temp Fill In Wetlands in the Hand Clearing areas for erosion control measures.

(B-4417)

BEAUFORT COUNTY
WBS - 33693.1.1 (B-4417
Permit Drawing
T Sheet 6 of 7 7 SHEET Sheet

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES	
1	NORMAN J. SELBY, SR.	5724 SIDNEY RD. BELHAVEN, NC 27810	
2	JOHNNIE & MARIEK BRINN	5459 NC HWY 99 SOUTH BELHAVEN, NC 27810	
3	LEWIS & DONNA LINCOLN	475 BRENTWOOD RD. WINSTON-SALEM, NC 27107	
4	CHARLES & SHEILA SLADE	4653 SYNDEY ROAD BELHAVEN, NC 27810	

NCDOT

DIVISION OF HIGHWAYS BEAUFORT COUNTY PROJECT: 33693.1.1 (B-4417)

SIDNEY

BRIDGE NO.59 OVER JACK CREEK

Permit Drawing 99

Sheet 7 of 7

4/7/09





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.	a. Type(s) of approval sought from the Corps:						
1b.	Specify Nationwide Permit (NWP)	number: 2	or General Permit (G	P) number:			
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	☐ Yes	⊠ No		
1d.	Type(s) of approval sought from	the DWQ (check all that apply):				
		n – Regula	r Non-404 Jurisdictiona	al General Permi	t		
	☐ 401 Water Quality Certification	n – Expres	s Riparian Buffer Autho	rization			
1e.	Is this notification solely for the rebecause written approval is not re	For the record only for DWQ 401 Certification:		only for Corps Permit:			
			☐ Yes	☐ Yes	⊠ No		
1f.	Is payment into a mitigation bank of impacts? If so, attach the accor- fee program.	⊠ Yes	□ No				
1g.	Is the project located in any of Nobelow.	coastal counties. If yes, answer 1h	⊠ Yes	□ No			
1h.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	⊠ Yes	□No		
2.	Project Information						
2a.	Name of project:	Replacen	nent of Bridge 59 over Jack Creek on	NC-99			
2b.	County:	Beaufort					
2c.	Nearest municipality / town:	Belhaven					
	Subdivision name:	not applic	cable				
2e.	NCDOT only, T.I.P. or state project no:	B-4417					
3.	Owner Information	,					
3a.	Name(s) on Recorded Deed:	North Ca	rolina Department of Transportation				
	Deed Book and Page No.	not applic	cable		V		
3c.	c. Responsible Party (for LLC if applicable): not applicable						
3d.	d. Street address: 1598 Mail Service Center						
3e.	City, state, zip:	Raleigh,	NC 27699-1598				
3f.	Telephone no.:	(919) 431	-6748				
3g.	Fax no.:	(919) 431	-2002				
3h.	h. 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	n (if applicable)			
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g	Email address:				

В. І	B. 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: 35.48 (DD.DDDD		Longitude: - 76.6729 (-DD.DDDDDD)			
1c.	Property size:	2.6 acres					
2.	Surface Waters						
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Jack Creek					
2b.	Water Quality Classification of nearest receiving water:	SC; NSW					
2c.	River basin:	Tar Pamlico					
3.	Project Description						
За.	Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: residential and agricultural land uses						
3b.	b. List the total estimated acreage of all existing wetlands on the property: 5.34						
3c.	3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 1,238						
3d.	d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.						
3e.	Describe the overall project in detail, including the type of equi The project involves replacing a 76-foot bridge with a 200-foot detour. Water, Telephone, and CATV utilities will be relocated such as trucks, dozers, and cranes will be used.	, 4-span bridge o	on the existing				
4.	Jurisdictional Determinations						
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	⊠ Yes	□No	Unknown			
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary	/ ⊠ Final				
4c.	If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consu	ultant Compan	y: ESI for NCDOT			
4d.	If yes, list the dates of the Corps jurisdictional determinations of May 8, 2006	or State determine	nations and att	ach documentation.			
5.	Project History						
5а.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes	⊠ No	Unknown			
5b.	If yes, explain in detail according to "help file" instructions.						
6.	Future Project Plans						
6a.	. Is this a phased project?	☐ Yes	⊠ No				
6b	. If yes, explain.						

C. Proposed Impa	cts Inventory							
1. Impacts Summa	ary							
1a. Which sections v	vere completed be	elow for your project ((check all that a	pply):				
Wetlands	⊠s	treams - tributaries	⊠ Bu	ffers				
☐ Open Waters	☐ Open Waters ☐ Pond Construction							
2. Wetland Impact		on the site, then com	unlata this quast	ion for each wetland a	roe imposto	4		
2a.	2b.	2c.	2d.	2e.	rea impacted	2f.		
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	Type of jurisdi (Corps - 404, DWQ – non-404	, 10	Area of impact (acres)		
Site 1 ☐ P ⊠ T	EC* Device	Riparian	⊠ Yes □ No	⊠ Corps □ DWQ		< 0.01**		
Site 2 ⊠ P □ T	Fill	CAMA Marsh	☐ Yes ☑ No	☐ Corps☐ DWQ		0.02		
Site 2 ☐ P ⊠ T	EC* Device	Riparian	⊠ Yes □ No	☑ Corps ☐ DWQ		< 0.01**		
Site 3 ☐ P 🖾 T	EC* Device	Riparian	⊠ Yes □ No	⊠ Corps □ DWQ		< 0.01**		
Site 4 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 5 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
				2g. Total wetlar	nd impacts	0.02 Permanent 0.01 Temporary		
2h. Comments: The of "less thans" does			Vetlands (see p	ermit drawings). *EC	- Erosion Co			
3. Stream Impact If there are perennia question for all strea	al or intermittent st		ing temporary in	mpacts) proposed on t	the site, then	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	Jack Creek	Fill	☑ PER ☐ INT	☑ Corps ☐ DWQ		0.18*		
Site 5 P T			PER INT	Corps DWQ				
Site 6 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ				
			3h. ⁻	Total stream and trib	utary impac	0.07 Perm 0.11 Temp		
3i. Comments: * Im	3i. Comments: * Impacts are in surface water and calculated in area (acre).							

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.	4b.	4c.				4d.		4e.	
Open w impact nui Permanen	mber – waterbody		Туре	e of impact	t	Waterbod	y type	Area of im	pact (acres)
Tempora		ļ							
01 🗆 F									
02 🗌 P	<u>'□T</u>								
03 🗌 F	'□T								
04 🗌 F	<u>' □ T </u>								
4f. Total open water impacts 0 Permanent 0 Temporary									
4g. Comm	ents:								
5. Pond	or Lake Construction								
	ake construction proposed		nplete	the chart b	elow.				
5a.	5b.	5c.			,	5d.			5e.
Pond ID	Proposed use or	VVE	etland Impacts (acres) Stream Impa		m impac	cts (feet) Upland (acres)			
number	purpose of pond	Flood	led	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1									
P2									
	5f. Total				·				
5g. Comm	ents:								
5h. Is a dam high hazard permit required?			□Y	es es	☐ No	If yes, perr	mit ID no	:	
5i. Expected pond surface area (acres):									
5j. Size o	of pond watershed (acres):								
5k. Metho	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.	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 Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)		
B1 ⊠P□T	Road Crossing	Jack Creek	☐ Yes ☑ No	1409.0	1055.0		
B2			☐ Yes ☐ No				
ВЗ □Р□Т			☐ Yes ☐ No				
6h. Total buffer impacts 1409.0 1055.0							
6i. Comments: Tot	al length equals 43' for Zone	e1 and 52' for Zone	2				

D.). Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	Specifically describe measures taken to avoid or minimize the	he proposed impacts	in designing project.			
	The proposed bridge is 125 feet longer than the existing brid than the existing structure; an off site detour will be used, 3:	dge; the proposed brid 1 fill slopes where pra	dge will be on a slightly higher grade acticable.			
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts	through construction techniques.			
	Top-down Construction will be used precluding the need for a temporary construction structure, utilities will be directionally bored, and an in-water work moratorium from Feb. 15 to June 15 of any year to protect anadromous fish.					
2.	Compensatory Mitigation for Impacts to Waters of the L	J.S. or Waters of the	State			
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	⊠ Yes □ No)			
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ 🛛 Co	orps			
2c.	 If yes, which mitigation option will be used for this project? ☐ Mitigation bank ☑ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation 					
3.	Complete if Using a Mitigation Bank					
За	. Name of Mitigation Bank: not applicable					
3b	. Credits Purchased (attach receipt and letter)	Туре	Quantity			
3с	. Comments:	·				
4.	Complete if Making a Payment to In-lieu Fee Program					
4a	. Approval letter from in-lieu fee program is attached.	⊠ Yes				
4b	. Stream mitigation requested:	linear feet				
4c	. If using stream mitigation, stream temperature:	☐ warm ☐ c	ool			
4d	. Buffer mitigation requested (DWQ only):	square feet				
4e	. Riparian wetland mitigation requested:	acres				
4f	Non-riparian wetland mitigation requested:	acres				
4ġ	. Coastal (tidal) wetland mitigation requested:	0.04 acres				
4h	. Comments:					
5.	Complete if Using a Permittee Responsible Mitigation I	Plan				
5a	ı. If using a permittee responsible mitigation plan, provide a c	description of the prop	osed mitigation plan.			

6. Buffer	6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ							
6a. Will the project result in an impact within a protected riparian buffer that requires ☐ 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.								
	6c.	6d.		6e.				
Zone	Reason for impact	Total impact (square feet)	Multiplier	Required mitigation (square feet)				
Zone 1			3 (2 for Catawba)					
Zone 2			1.5					
		6f. Total buffer	mitigation required:					
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund). 6h. Comments:								

E.	Stormwater Management and Diffuse Flow Plan (required by DWQ)						
1.	Diffuse Flow Plan						
1a.	Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	⊠ Yes	□ No				
1b.	If yes, then is a diffuse flow plan included? If no, explain why. Comments: see attached permit drawings.	⊠ 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.						
2e	. Who will be responsible for the review of the Stormwater Management Plan?		al Government vater Program nit				
3.	3. Certified Local Government Stormwater Review						
За.	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 Suppl ☐ Other:	y Watershed				
3c.	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□No				
4.	DWQ Stormwater Program Review						
4a	. Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal cou HQW ORW Session Lat Other:	nties w 2006-246				
4b	. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	⊠ No in process				
5.	DWQ 401 Unit Stormwater Review						
5a	. Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	⊠ No _y pending				
5b	. Have all of the 401 Unit submittal requirements been met?	☐ Yes	⊠ No				

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	of the violation(s):	
3.	Cumulative Impacts (DWQ Requirement)		
3a	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes ☑ No	
3b	. If you answered "yes" to the above, submit a qualitative or quantitative cumulative im most recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in a	ccordance with the
	Due to the minimal transportation impact resulting from this bridge replacement, this land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects s	project will neithe tudy will not be n	r influence nearby ecessary.
4.	Sewage Disposal (DWQ Requirement)		
4a	. Clearly detail the ultimate treatment methods and disposition (non-discharge or disch the proposed project, or available capacity of the subject facility. not applicable	arge) of wastewa	ter generated from

5. Endangered Species and Designated Critical Habitat (Corps Requirement)					
5а.	Will this project occur in or near an area habitat?	with federally protected species or	☐ Yes	⊠ No	
5b.	Have you checked with the USFWS con impacts?	cerning Endangered Species Act	⊠ Yes [□No	
5c.	If yes, indicate the USFWS Field Office you have contacted.		☒ Raleigh☐ Asheville		
5d	5d. What data sources did you use to determine whether your site would impact Endangered Species or Design Habitat?			esignated Critical	
	NHP & NCDOT field surveys				
6.	Essential Fish Habitat (Corps Requirement)				
6а	Will this project occur in or near an area designated as essential fish habitat?		Yes	⊠ No	
6b	What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index				
7.	Historic or Prehistoric Cultural Resources (Corps Requirement)				
78	Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?		☐ Yes	⊠ No	
71	. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation				
8. Flood Zone Designation (Corps Requirement)					
8	Will this project occur in a FEMA-designated 100-year floodplain?		Yes	⊠ No	
	8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics coordination with FEMA				
_	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 S (Agent's signature is valid only if an authoriz is provided.)	k ignature	17-10-09 Date	



August 7, 2009

Mr. William Wescott
U. S. Army Corps of Engineers
Washington Regulatory Field Office
Post Office Box 1000
Washington, North Carolina 27789-1000

Dear Mr. Wescott:

Subject:

EEP Mitigation Acceptance Letter:

B-4417, Replace Bridge Number 59 over Jack Creek on NC 99, Beaufort County; Tar-Pamlico River Basin (Cataloging Unit 03020104); Northern Outer Coastal Plain (NOCP) Eco-Region

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory coastal marsh mitigation for the unavoidable impact associated with the above referenced project. As indicated in the NCDOT's mitigation request dated July 15, 2009, coastal marsh mitigation from EEP is required for 0.02 acre of coastal marsh impact.

Also, this project will impact buffers located in CU 03020104 of the Tar-Pamlico River Basin. The total buffer impacts are 4,327.0 square feet in Zone 1 and 863.0 square feet in Zone 2 with a total buffer mitigation requirement of 14,276.0 square feet. If the buffer impacts or the amount of mitigation required from EEP increases or decreases for this project, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required. All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund (Fund 2982).

The NCDOT will be responsible to ensure that the appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWQ's Buffer Authorization Certification, EEP will transfer funds from Fund 2984 (Tri-Party MOA Account) into Fund 2982 and commit to provide the appropriate buffer mitigation to offset the impacts associated with this project in either Tar-Pamlico 03020103 or 03020105.

Mr. Wescott August 7, 2009 TIP B-4417 Page Two

Mitigation associated with this project will be provided in accordance with Section X of Amendment No. 2 to the Memorandum of Agreement between the N. C. Department of Environment and Natural Resources, the N. C. Department of Transportation, and the U. S. Army Corps of Engineers fully executed on March 8, 2007 (Tri-Party MOA). EEP commits to implement sufficient compensatory coastal marsh mitigation up to 0.04 coastal marsh mitigation credits in the appropriate cataloging unit to offset the impacts associated with this project by the end of the MOA year in which this project is permitted. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

William D. Gilmore, P.E.

EEP Director

cc: Mr. Gregory J. Thorpe, Ph.D., NCDOT-PDEA

Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit

Mr. Steve Sollod, Division of Coastal Management

File: B-4417





August 7, 2009

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

Dear Dr. Thorpe:

Subject:

EEP Mitigation Acceptance Letter:

B-4417, Replace Bridge Number 59 over Jack Creek on NC 99, Beaufort County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the coastal marsh mitigation and buffer mitigation for the subject project. Based on the information supplied by you dated July 15, 2009, the impacts are located in CU 03020104 of the Tar-Pamlico River Basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Coastal Marsh	0.02 acre	
Buffer – Zone 1	6,063 square feet	
Buffer - Zone 2	1.169 square feet	

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 NCDWQ's Buffer Authorization Certification, EEP will transfer funds from Tri-Party MOA Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its riparian buffer mitigation responsibility for the above referenced project. Subsequently, EEP will conduct a review of current MOA 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 Tri-Party MOA Fund. EEP commits to providing the riparian buffer restoration mitigation for the buffer impacts in either Tar-Pamlico 03020103 or 03020105.

Dr. Thorpe August 7, 2009 TIP B-4417 Page Two

EEP commits to implementing sufficient compensatory coastal marsh mitigation credits to offset the impacts associated with this project by the end of the MOA Year in which this project is permitted, in accordance with Section X of the Amendment No. 2 to the Memorandum of Agreement between the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, fully executed on March 8, 2007. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,

William D. Gilmore, P.E.

James B. Stomfill for

EEP Director

cc: Mr. William Wescott, USACE - Washington Regulatory Field Office

Mr. Brian Wrenn, Division of Water Quality - Wetlands/401 Unit

Mr. Steve Sollod, Division of Coastal Management

File: B-4417



STORMWATER MANAGEMENT PLAN

TIP No. B-4417 (33693.1.1) Beaufort County April 2009

Project Description

This project consists of approach roadway work and the replacement of Bridge #59 over Jacks Creek on NC 99. The existing 2 lane facility has 9' lanes. The proposed facility will improve to 2 lanes w/ 12' lanes and 4' shoulders. The existing 3 @ 25' (75.5' total) bridge will be replaced with a 4 @ 50' – 21" cored slab bridge (200' total). There are CAMA wetlands in the NE, NW and SW quadants of the project.

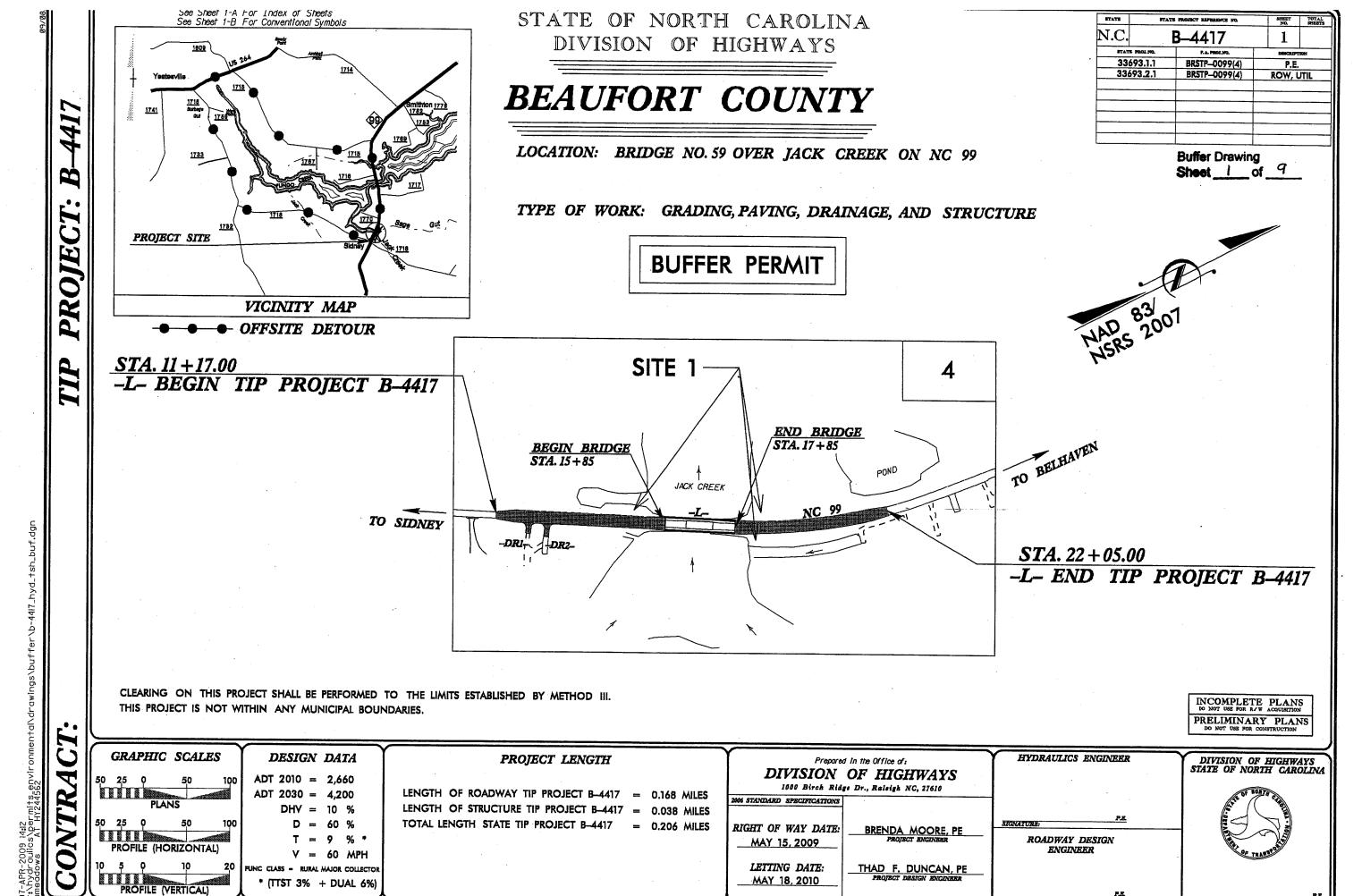
Project Involvement

The project will require widening of the existing road/fill with wider lanes and the addition of wider shoulders and guardrail. The drainage at the site consists of ephemeral drainage ditches. There are CAMA wetlands in the NE, NW and SW quadants of the project. Jacks Creek is classified as C; NSW and is a Public Trust Water.

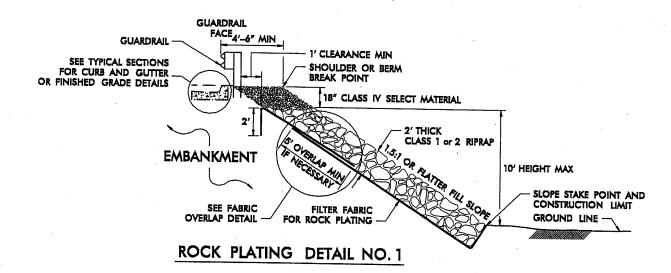
Best Management Practices

Best Management Practices (BMPs) utilized on the project are as follows:

- -Promotion of sheet flow and infiltration with grassed shoulders and grassed swales.
- -No direct discharge into wetlands/buffer. Outlet drainage systems to grassed swales.
- -No deck drains on bridge
- -Removal of existing road fill. The removal of road fill offsets the amount of fill in surface waters due to widening. Fill removal also improves bridge conveyance and reduces bridge opening velocities.



Buffer Drawing
Sheet 2 of 9



USE ROCK PLATING DETAIL NO. 1 AT THE FOLLOWING LOCATIONS:

STA 13+40 \pm TO STA 15+85 \pm -L- LT STA 14+50 \pm TO STA 15+85 \pm -L- RT STA 17+85 \pm TO STA 18+50 \pm -L- LT & RT

EXTEND ROCK PLATING LIMITS TO 2.5 : 1 (H:V) SLOPES.

TOP OF SLOPE

| ROLL WIDTH | 5' OVERLAP MIN (TYP)

| TOE OF SLOPE

FABRIC OVERLAP DETAIL (PLAN VIEW)

ROCK PLATING DETAILS AND LOCATIONS WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE ROADWAY DESIGN UNIT ON APRIL 16, 2009 AND SEALED BY A PROFESSIONAL ENGINEER, THEIN T. ZAN, LICENSE # 30943.

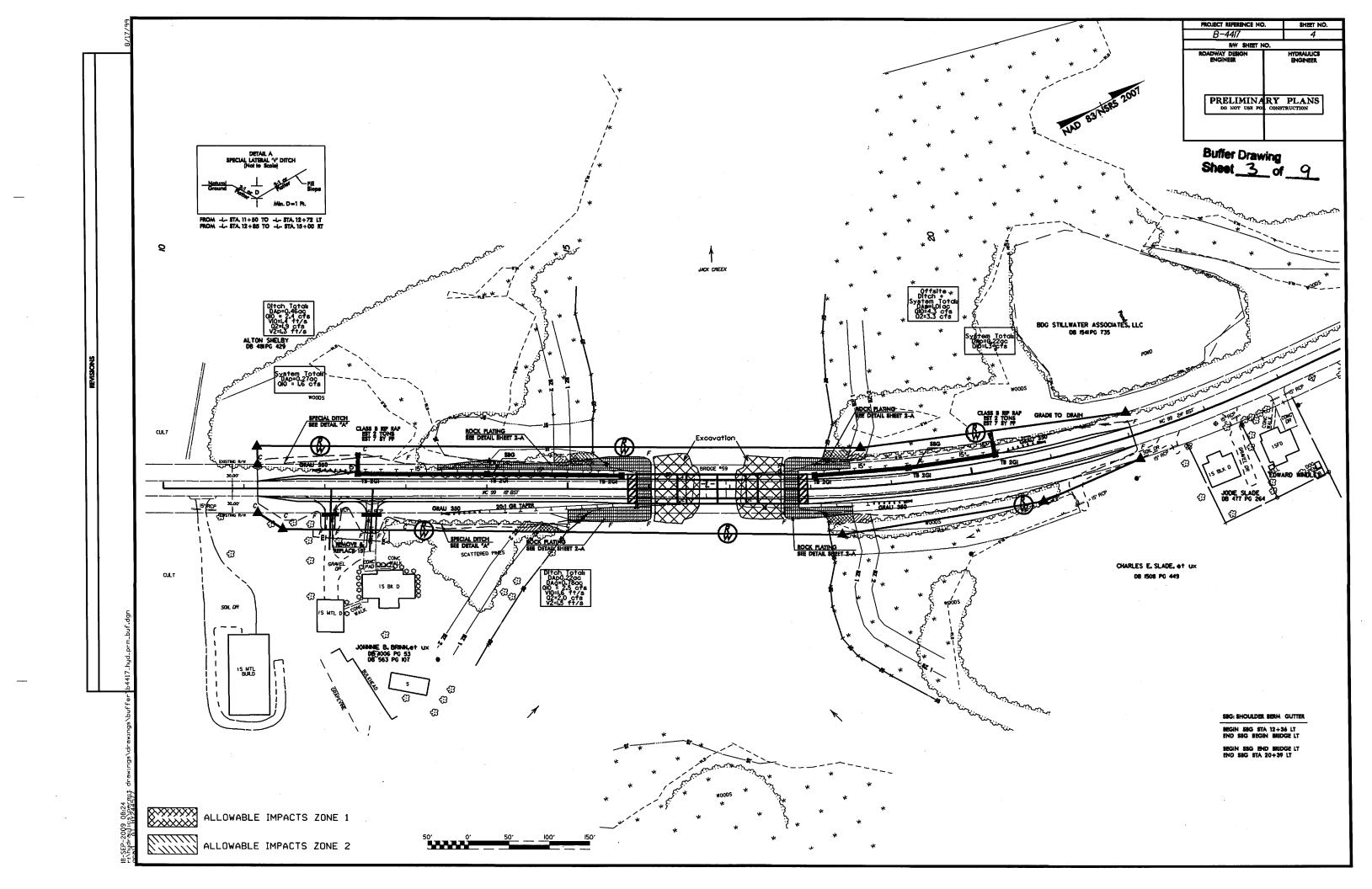
FOR ROCK PLATING,
SEE ROCK PLATING SPECIAL PROVISION.

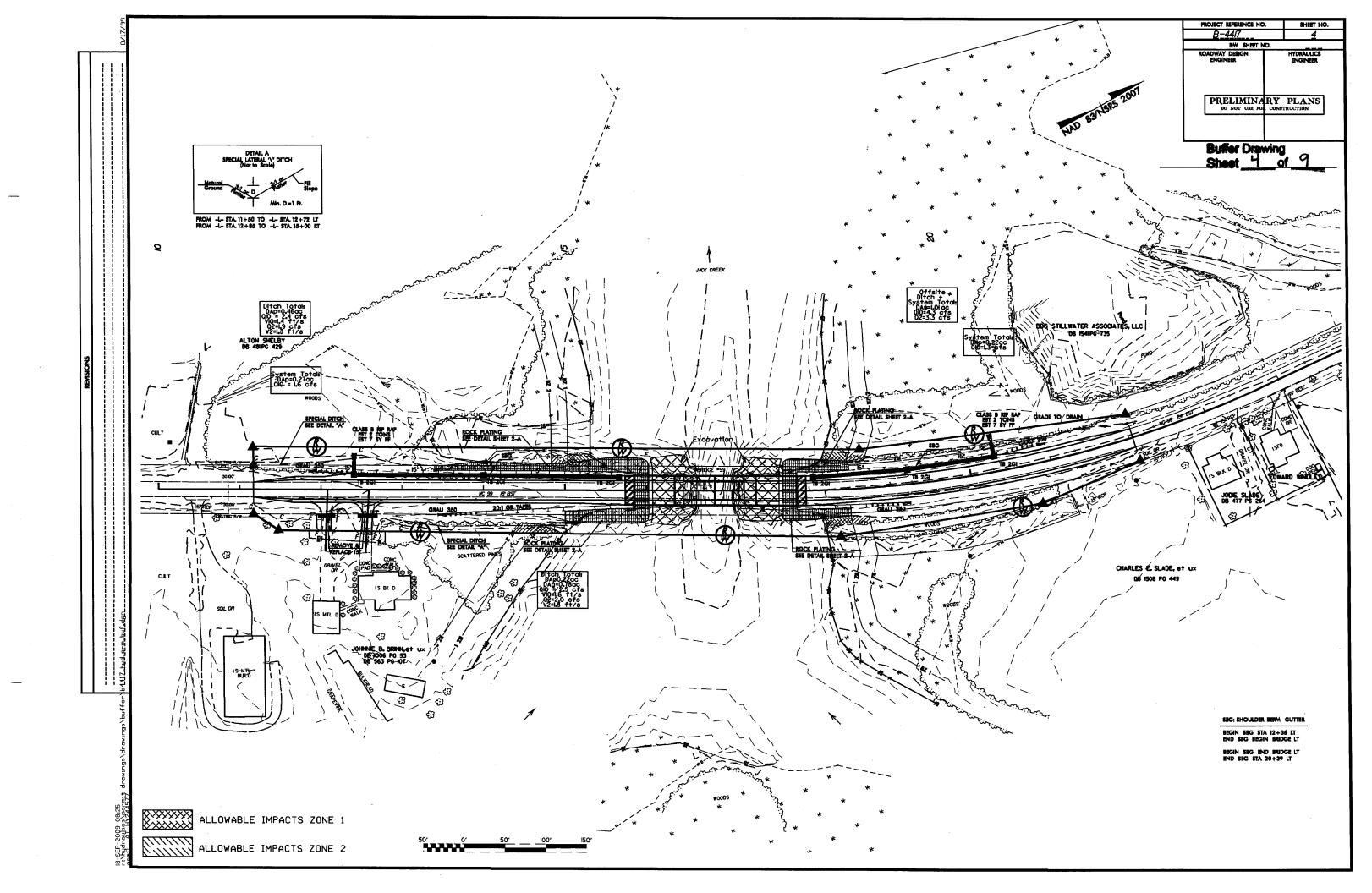
ESTIMATED QUANTITIES:

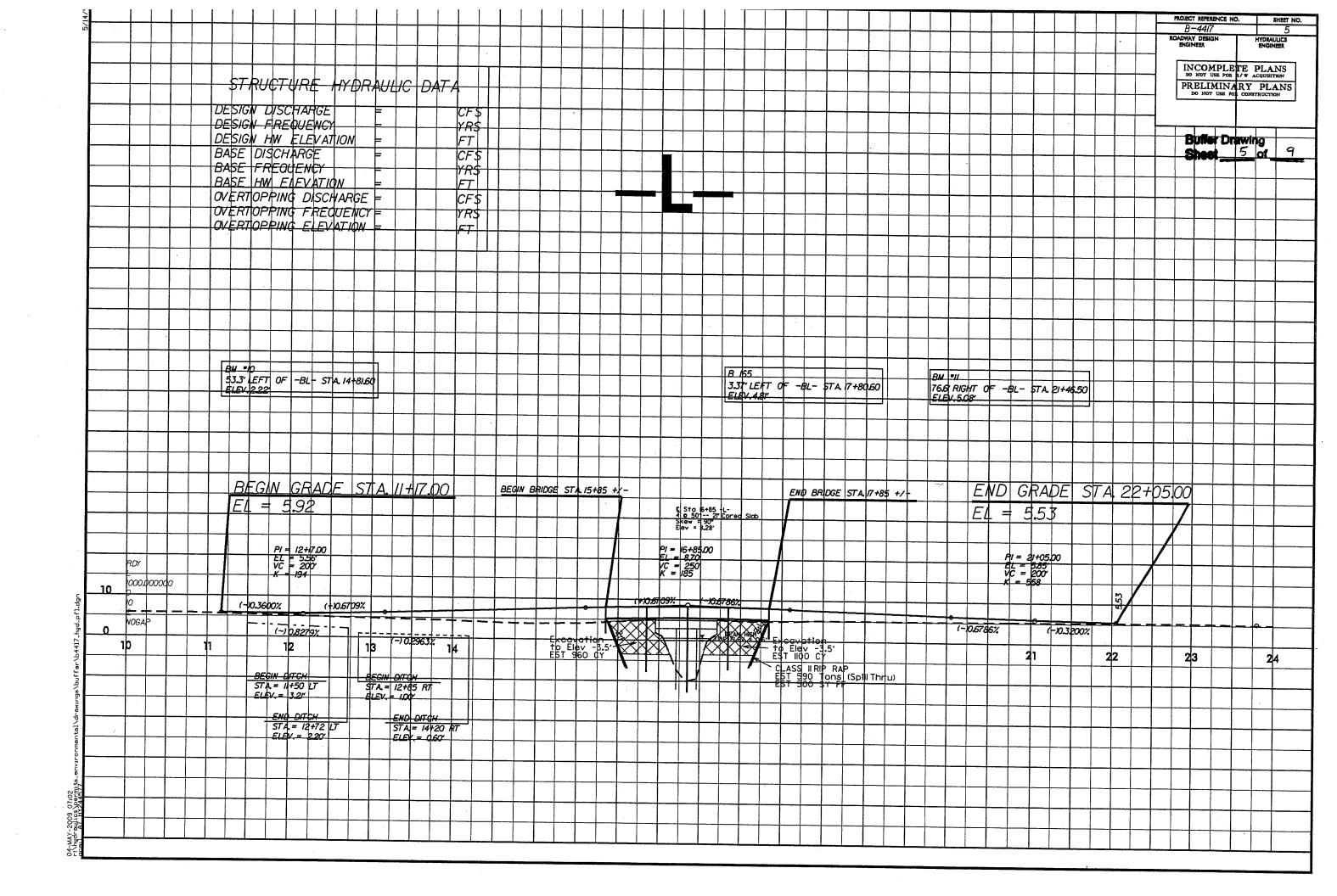
ROCK PLATING 900 SO.YD.

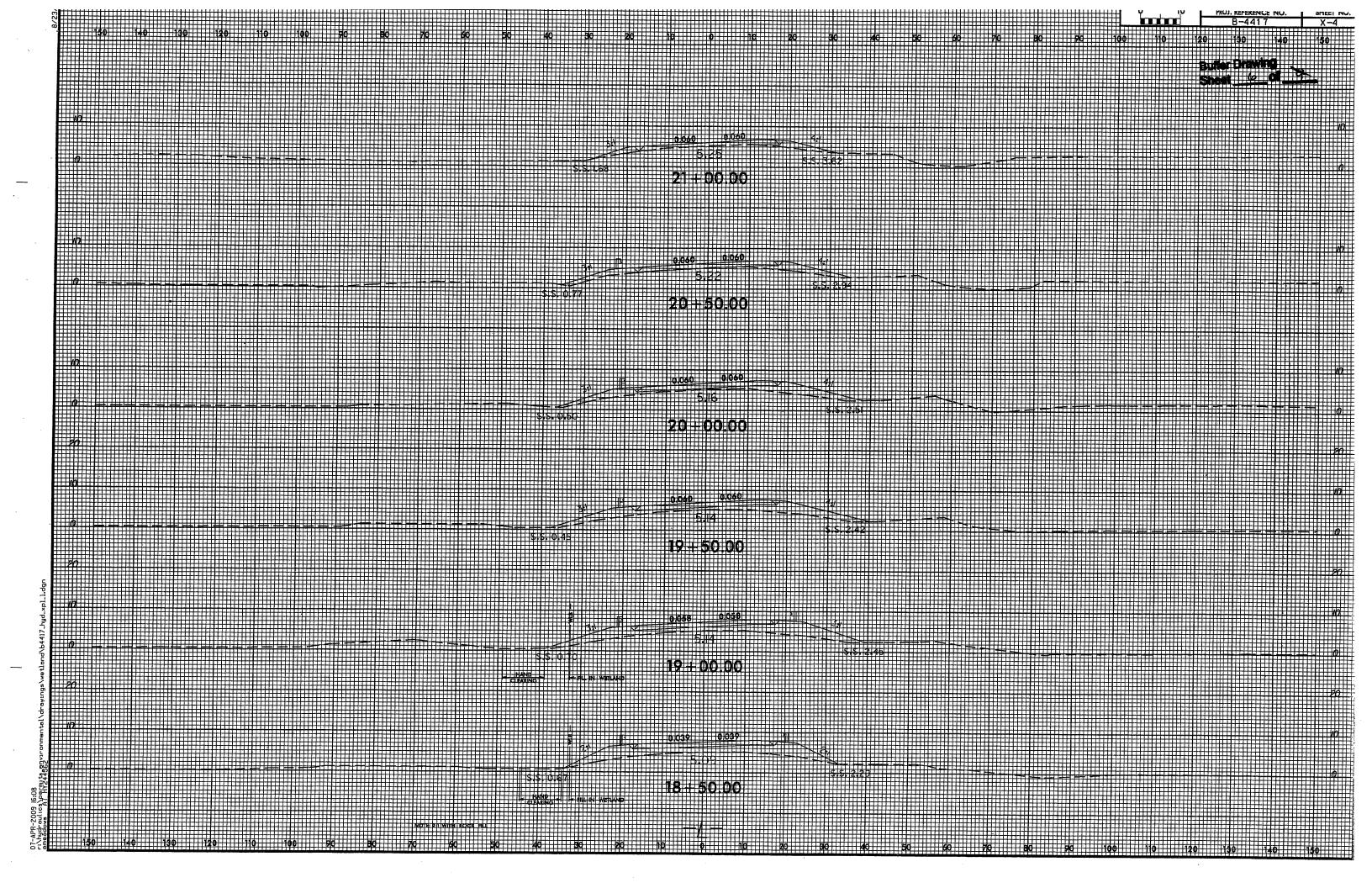
6" PERFORATED SUBDRAIN PIPE 100 LIN.FT.
SUBDRAIN FINE AGGREGATE 300 CU.YD.

:\readway\proj\b4417_rdy_typ.dgn









			BUF	FER	BUFFER IMPACTS SUMMARY	TS SL	MMA	R₹					
							IMPACT					BUFFER	FER
				TYPE		AL.	ALLOWABLE	щ		MITIGABLE	Щ	REPLACEMENT	EMENT
SITE NO.	STRUCTURE SIZE /	STATION (FROM/TO)	ROAD CROSSING BRIDGE	BRIDGE	PARALLEL IMPACT	ZONE (ft²)	ZONE 2 (ft²)	TOTAL (ff²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ff²)	ZONE 1 (ft²)	ZONE 2 (ff²)
-		12+89-L- / 18+73-L-	×			1409.0	1055.0	2464.0					
	3												
			-										
TOTAL:						1409.0	1055.0	2464.0					
	Impact Length Zone 1 = 43' Impact Length Zone 2 = 52'	ne 1 = 43' ne 2 = 52'								ž	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	DEPT. OF TRANSPORTATIONSION OF HIGHWAYS	ATION

BEAUFORT COUNTY PROJECT: 33693.1.1 (B-4417)

Buffer Drawing 9

REV 9/2009 SHEET OF

																N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	REALIFORT COLINTY	PROJECT: 33693.1.1 (B-4417)	REV 9/2009 SHEET OF	中 一种
WETLANDS IN BUFFER IMPACTS SUMMARY																		Sheet Brawing Sheet 8 of 9		
IN BUE	NI SQI	ERS	ZONE 2 (ft²)	525											525					
ETLAND	WETLANDS IN	BUFFERS	ZONE 1 (ft²)	808		 		 		 					808			en en	, ,	
>																				
			STATION (FROM/TO)	14+00-L- /18+31-L-																
			SITE NO.	1										ļ	IOIAL:					

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	NORMAN J. SELBY, SR.	5724 SIDNEY RD. BELHAVEN, NC 27810
2	JOHNNIE & MARIEK BRINN	5459 NC HWY 99 SOUTH BELHAVEN, NC 27810
3	LEWIS & DONNA LINCOLN	475 BRENTWOOD RD. WINSTON-SALEM, NC 27107
4	CHARLES & SHEILA SLADE	4653 SYNDEY ROAD BELHAVEN, NC 27810

NCDOT

DIVISION OF HIGHWAYS BEAUFORT COUNTY PROJECT: 33693.1.1 (B-4417)

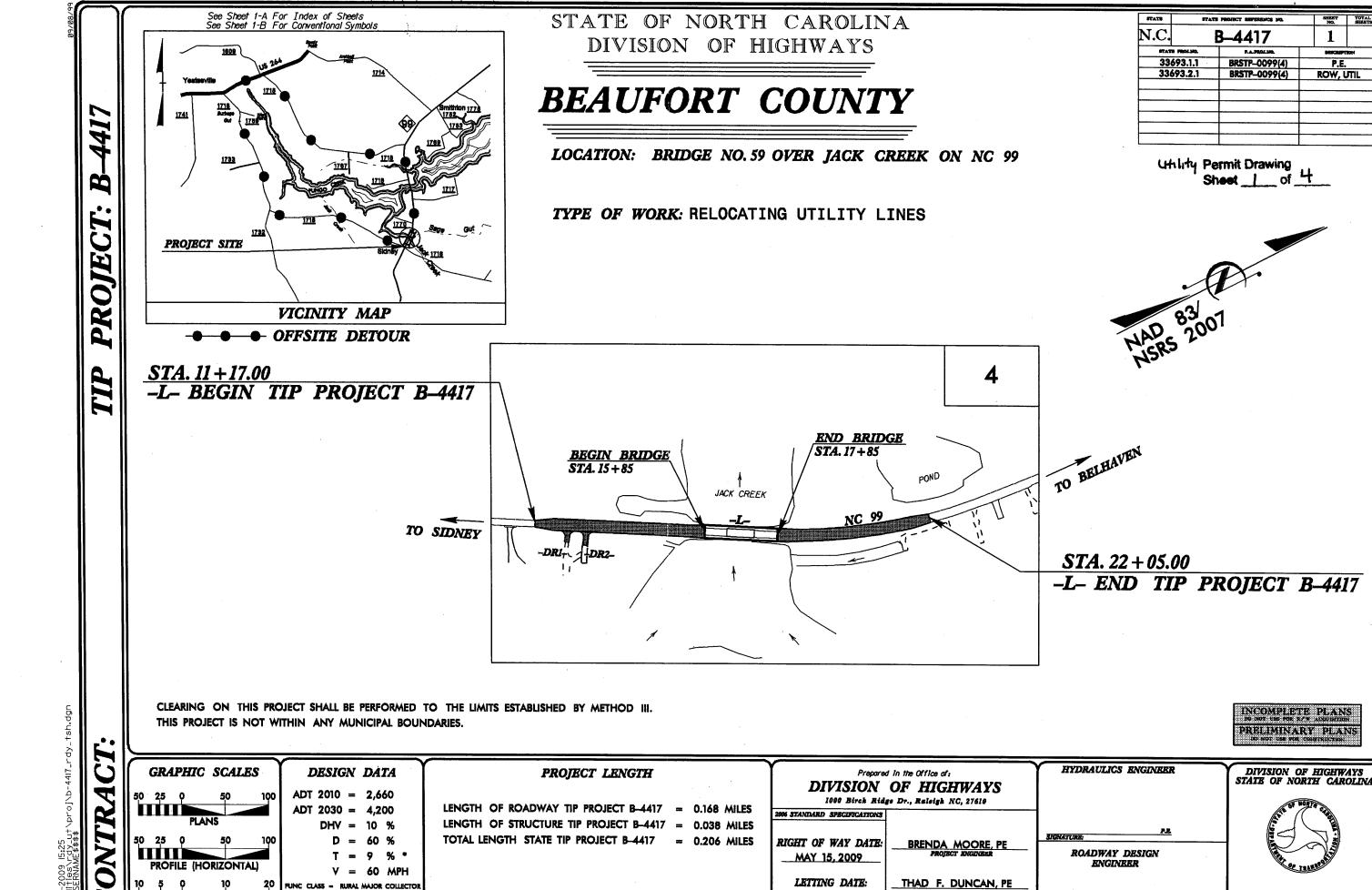
SIDNEY

BRIDGE NO.59 OVER JACK CREEK

ON NC 99
Buffer Drawing
Sheet 9 of

SHEET

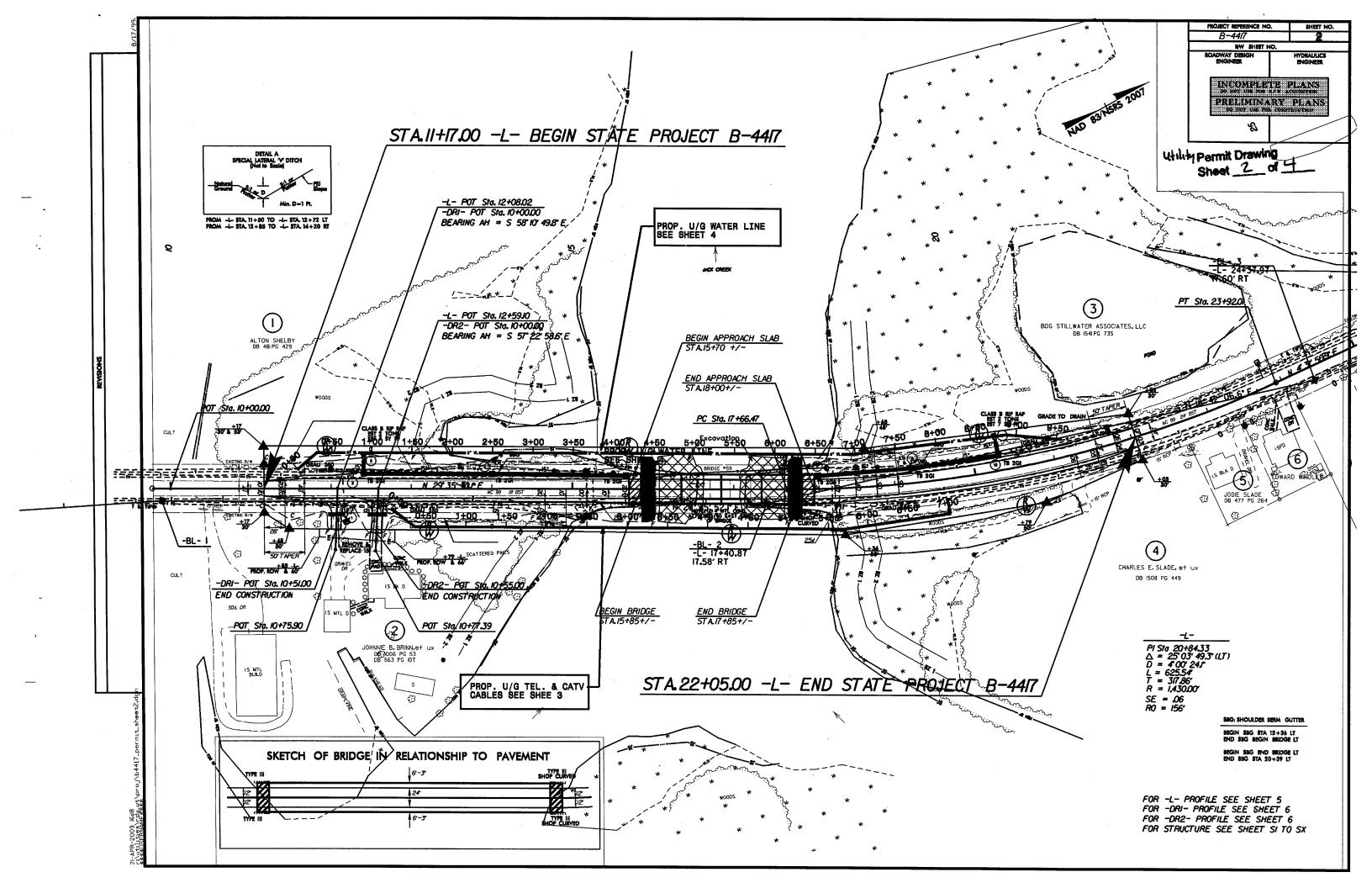
OF 4/7/09

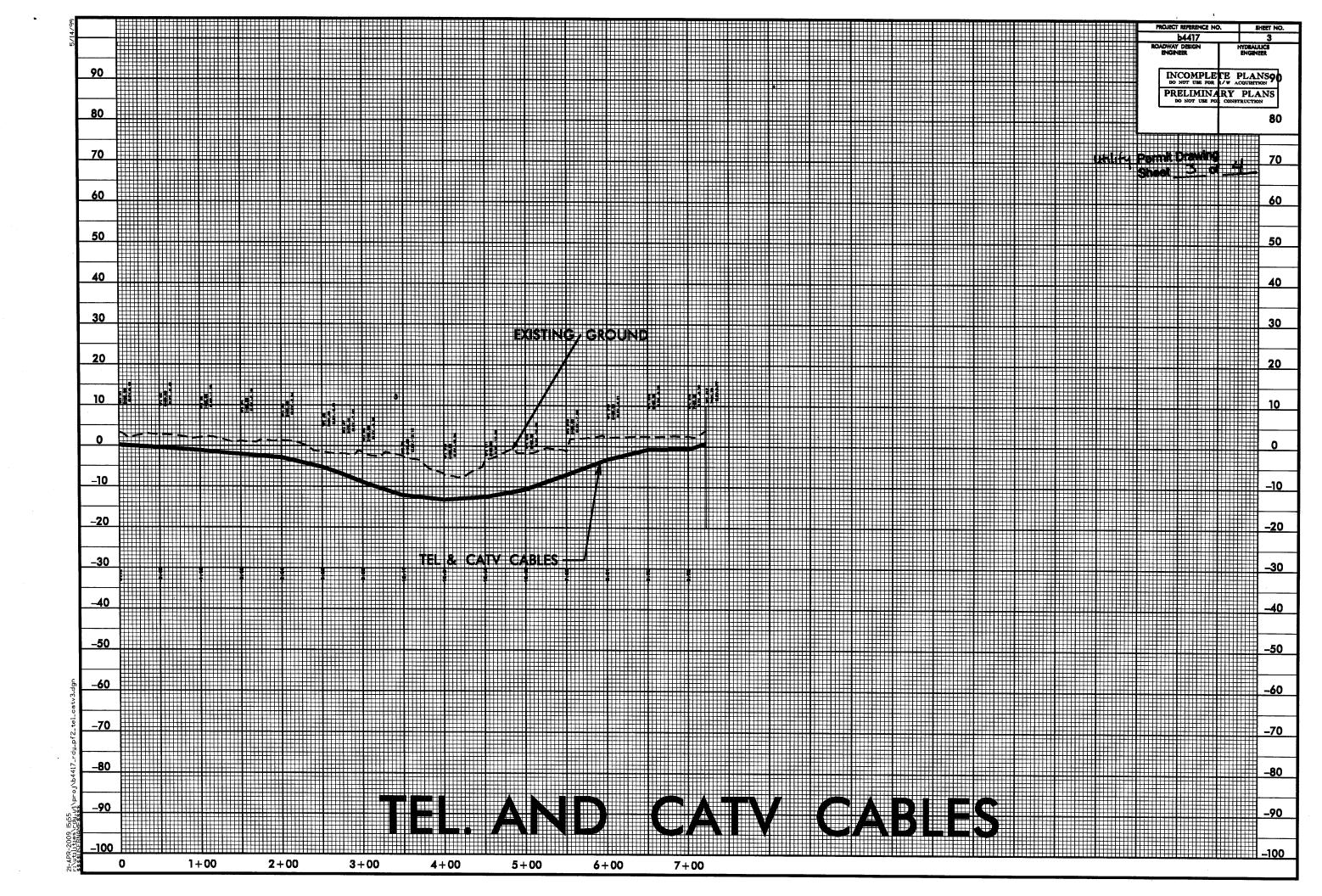


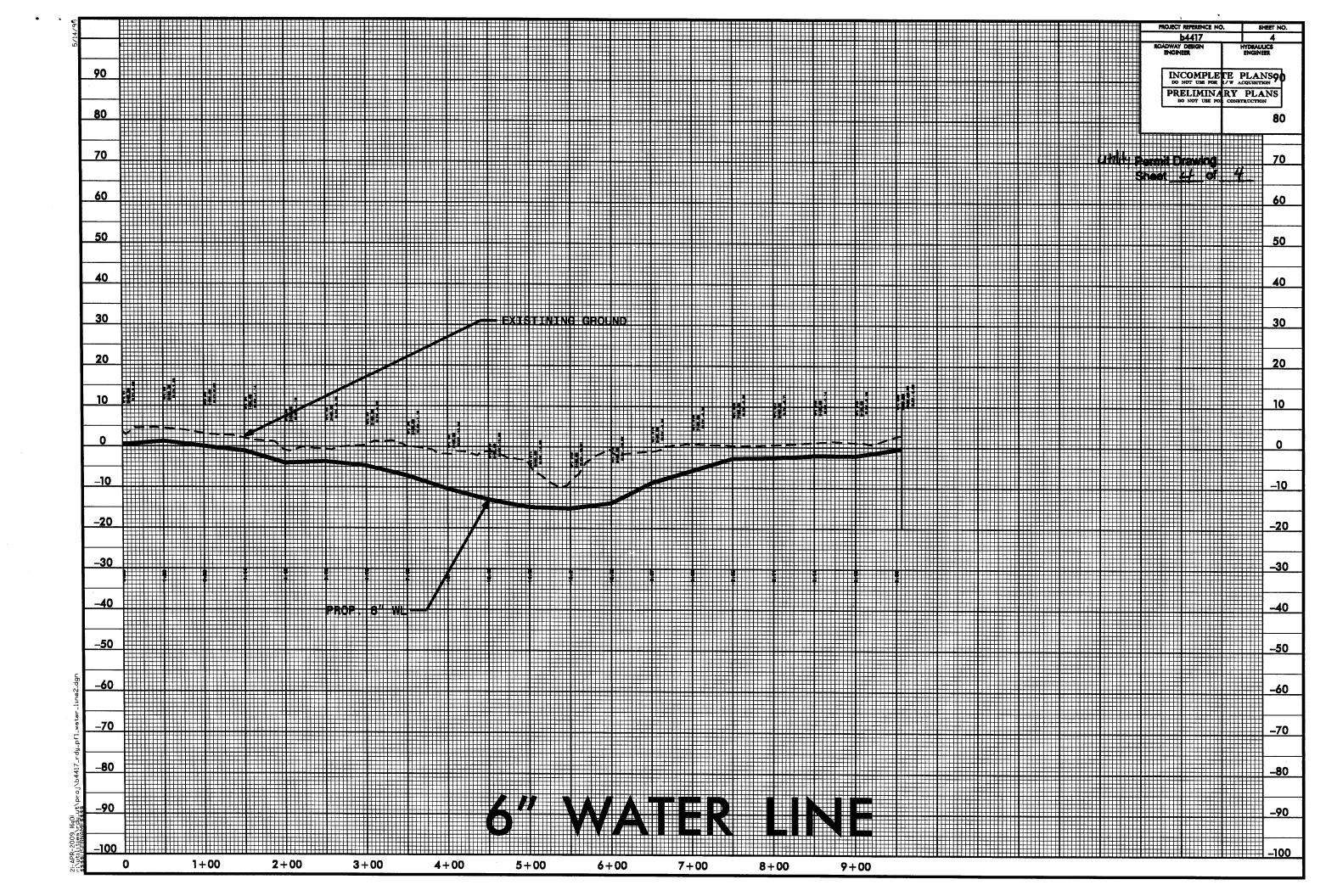
MAY 18, 2010

PROFILE (VERTICAL)

* (TTST 3% + DUAL 6%)







See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols STATE OF NORTH CAROLINA SHEET TOTAL NO. SHEETS N.C. 1 B-4417 DIVISION OF HIGHWAYS STATE PROLNO. 33693.1.1 BRSTP-0099(4) 33693.2.1 BRSTP-0099(4) ROW, UTIL BEAUFORT COUNTY LOCATION: BRIDGE NO. 59 OVER JACK CREEK ON NC 99 B TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE **PROJEC** PROJECT SITE VICINITY MAP **→** OFFSITE DETOUR STA. 11 + 17.004 -L- BEGIN TIP PROJECT B-4417 END BRIDGE STA. 17 + 85.00 BEGIN BRIDGE STA. 15 + 85.00 JACK CREEK NC 99 TO SIDNEY -DRI+ DR2-STA. 22 + 05.00-L- END TIP PROJECT B-4417 CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES. idripalisperbuodurg: DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA HYDRAULICS ENGINEER GRAPHIC SCALES DESIGN DATA PROJECT LENGTH Prepared in the Office of: **DIVISION OF HIGHWAYS** ADT 2010 = 2,6601000 Birch Ridge Dr., Raleigh NC, 27610 ADT 2030 = 4,200LENGTH OF ROADWAY TIP PROJECT B-4417 = 0.168 MILES 2006 STANDARD SPECIFICATIONS LENGTH OF STRUCTURE TIP PROJECT B-4417 = 0.038 MILES DHV = 10 %TOTAL LENGTH STATE TIP PROJECT B-4417 = 0.206 MILES RIGHT OF WAY DATE: BRENDA MOORE, PE ROADWAY DESIGN MAY 15, 2009 ENGINEER PROFILE (HORIZONTAL) V = 60 MPHLETTING DATE: THAD F. DUNCAN, PE

MAY 18, 2010

* (TTST 3% + DUAL 6%)

*S.U.E. = Subsurface Utility Engineering

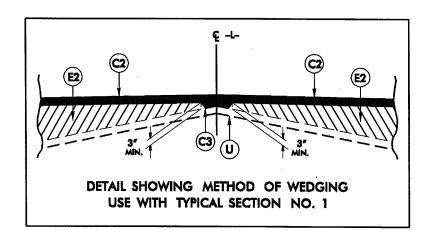
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

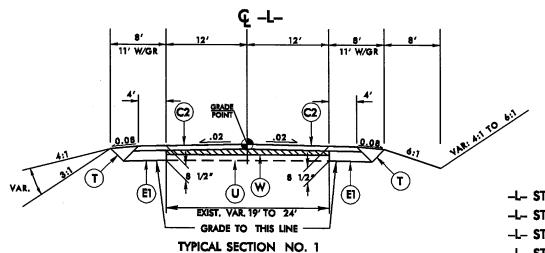
CONVENTIONAL PLAN SHEET SYMBOLS

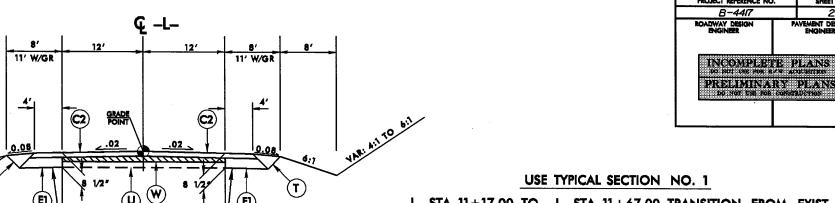
	•					WATER:	
BOUNDARIES AND PROPERTY	Υ :					Water Manhole	
State Line	•	RAILROADS:				Water Meter	
County Line		Standard Gauge	CSX TRANSPORTATION			Water Valve	
Township Line		RR Signal Milepost	⊙ MILEPOST 35	EXISTING STRUCTURES:		Water Hydrant	
City Line		Switch	SWITCH	MAJOR:		Recorded U/G Water Line	
Reservation Line		RR Abandoned		Bridge, Tunnel or Box Culvert	CONC	Designated U/G Water Line (S.U.E.*)	
Property Line		RR Dismantled		Bridge Wing Wall, Head Wall and End Wall -) CONC WW (Above Ground Water Line	- A/G Water
Existing Iron Pin		RIGHT OF WAY:		MINOR:			
Property Corner		Baseline Control Point	-	Head and End Wall	CONC HW	TV:	
Property Monument		Existing Right of Way Marker	- Š	Pipe Culvert		TV Satellite Dish	- &
Parcel/Sequence Number		Existing Right of Way Line		Footbridge		TV Pedestal	- 🗀
Existing Fence Line		Proposed Right of Way Line	_	Drainage Box: Catch Basin, DI or JB	СВ	TV Tower	- 🛇
Proposed Woven Wire Fence		Proposed Right of Way Line with	_ 	Paved Ditch Gutter		U/G TV Cable Hand Hole	— Нн
Proposed Chain Link Fence		Iron Pin and Cap Marker		Storm Sewer Manhole	(\$)	Recorded U/G TV Cable	тү
Proposed Barbed Wire Fence		Proposed Right of Way Line with		Storm Sewer		Designated U/G TV Cable (S.U.E.*)	
Existing Wetland Boundary						Recorded U/G Fiber Optic Cable	
Proposed Wetland Boundary		Existing Control of Access	10,	UTILITIES:		Designated U/G Fiber Optic Cable (S.U.E.*)-	
		Proposed Control of Access Existing Easement Line		POWER:		,	
Existing Endangered Animal Boundary	EAB	<u> </u>	-	Existing Power Pole	•	GAS:	
Existing Endangered Plant Boundary		Proposed Temporary Construction Easement	_	Proposed Power Pole	d	Gas Valve	-
BUILDINGS AND OTHER CUI	LTURE:	Proposed Temporary Drainage Easement		Existing Joint Use Pole	—	Gas Meter	
Gas Pump Vent or U/G Tank Cap		Proposed Permanent Drainage Easement —		Proposed Joint Use Pole	- ò -	Recorded U/G Gas Line	•
Sign —		Proposed Permanent Utility Easement		Power Manhole	e)	Designated U/G Gas Line (S.U.E.*)	
Well		Proposed Temporary Utility Easement ———— Proposed Permanent Easement with	— TUE ——	Power Line Tower	⊠	Above Ground Gas Line	A/G Gas
Small Mine	─ ×	Iron Pin and Cap Marker	- 🔷	Power Transformer	M	Above Globila Gua Lille	
Foundation ————————————————————————————————————		ROADS AND RELATED FEATU	IRES:	U/G Power Cable Hand Hole	뙈	SANITARY SEWER:	
Area Outline		Existing Edge of Pavement		H-Frame Pole		Sanitary Sewer Manhole	_ @
Cemetery		Existing Curb		Recorded U/G Power Line		Sanitary Sewer Cleanout	
Building		Proposed Slope Stakes Cut		Designated U/G Power Line (S.U.E.*)		U/G Sanitary Sewer Line	· · · · · · · · · · · · · · · · · · ·
School		Proposed Slope Stakes Fill		Designated U.G. Fower Line (3.U.E.*)		Above Ground Sanitary Sewer	
Church		Proposed Wheel Chair Ramp		TELEPHONE:		Recorded SS Forced Main Line	
Dam		Existing Metal Guardrail		Existing Telephone Pole		Designated SS Forced Main Line (S.U.E.*) —	
		Proposed Guardrail		Proposed Telephone Pole	-	Designated 33 Forced Main Line (5.0.E.) -	
HYDROLOGY:		Existing Cable Guiderail			-	MOSTILANICOLIO	
Stream or Body of Water —		Proposed Cable Guiderail		Telephone Manhole	O E	MISCELLANEOUS:	_
Hydro, Pool or Reservoir				Telephone Booth ———————————————————————————————————	1	Utility Pole	-
Jurisdictional Stream		Equality Symbol	•	Telephone Pedestal		Utility Pole with Base	
Buffer Zone 1		Pavement Removal	− ₩₩	Telephone Cell Tower		Utility Located Object	
Buffer Zone 2		VEGETATION:	^	U/G Telephone Cable Hand Hole		Utility Traffic Signal Box	
Flow Arrow — — — — — — — — — — — — — — — — — — —		Single Tree		Recorded U/G Telephone Cable		Utility Unknown U/G Line	
Spring ————————————————————————————————————		Single Shrub		Designated U/G Telephone Cable (S.U.E.*) —		U/G Tank; Water, Gas, Oil	
Wetland		Hedge		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil —	h
	•	Woods Line		Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	-
Proposed Lateral, Tail, Head Ditch	< FIDS	Orchard ————————————————————————————————————		Recorded U/G Fiber Optics Cable ————		Abandoned According to Utility Records —	
False Sump	$ \Diamond$	Vineyard ————————————————————————————————————	Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)	T FD	End of Information ————————————————————————————————————	– E.O.I.

	PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YARD IN EACH OF TWO LAYERS.
СЗ	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 3 " ASPHALT CONCRETE INTERMEDIATE COURSE, Type I19.0B, at an average rate of 342 LBS. Per 8Q. yd.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 119.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 512" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YARD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE 825.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN S" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
J1	PROP. 6" AGGREGATE BASE COURSE.
U	EXISTING PAVEMENT.
Т	EARTH MATERIAL
w	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET.)

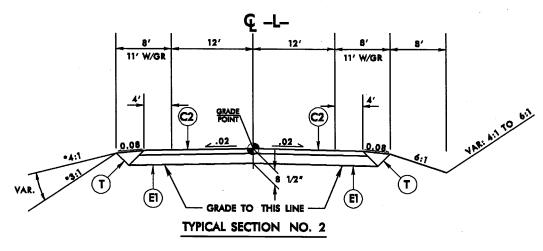
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

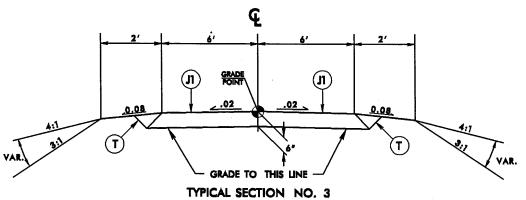


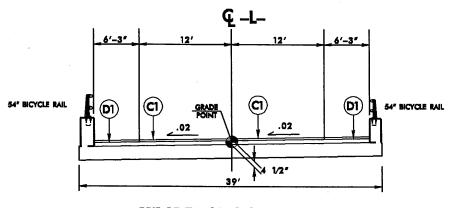




- -L- STA. 11+17.00 TO -L- STA. 11+67.00 TRANSITION FROM EXIST.
- -L- STA. 11+67.00 TO -L- STA. 12+50.00
- -L- STA. 20+50.00 TO -L- STA. 21+55.00
- -L- STA. 21+55.00 TO -L- STA. 22+05.00 TRANSITION TO EXIST.







BRIDGE TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 2

- -L- STA. 12+50.00 TO -L- STA. 15+85.00 (BEGIN BRIDGE)
- -L- STA. 17 + 85.00 (END BRIDGE) TO -L- STA. 20 + 50.00
- * NOTE: USE 2:1 FILL SLOPES AT ROCK PLATING LOCATIONS
- -L- STA. 13+50 TO -L- STA. 18+50 LT
- -L- STA. 14+50 TO -L- STA, 18+50 RT

USE TYPICAL SECTION NO. 3

-DR1- STA. 10+16.01 TO -DR1- STA. 10+51.00 -DR2- STA. 10+16.02 TO -DR2- STA. 10+55.00

USE BRIDGE TYPICAL SECTION NO. 1

-L- STA. 15+85.00 TO -L- STA. 17+85.00

