

**PROJECT SPECIAL PROVISION**

(10-18-95)

Z-1

**PERMITS**

The Contractor's attention is directed to the following permits, which have been issued to the Department of Transportation by the authority granting the permit.

**PERMIT**

**AUTHORITY GRANTING THE PERMIT**

Buffer Certification

Division of Environmental Management, DENR  
State of North Carolina

The Contractor shall comply with all applicable permit conditions during construction of this project. Those conditions marked by \* are the responsibility of the department and the Contractor has no responsibility in accomplishing those conditions.

Agents of the permitting authority will periodically inspect the project for adherence to the permits.

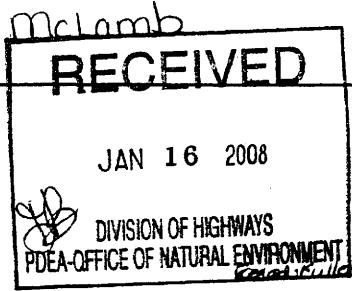
The Contractor's attention is also directed to Articles 107-10 and 107-14 of the *Standard Specifications* and the following:

Should the Contractor propose to utilize construction methods (such as temporary structures or fill in waters and/or wetlands for haul roads, work platforms, cofferdams, etc.) not specifically identified in the permit (individual, general, or nationwide) authorizing the project it shall be the Contractor's responsibility to coordinate with the Engineer to determine what, if any, additional permit action is required. The Contractor shall also be responsible for initiating the request for the authorization of such construction method by the permitting agency. The request shall be submitted through the Engineer. The Contractor shall not utilize the construction method until it is approved by the permitting agency. The request normally takes approximately 60 days to process; however, no extensions of time or additional compensation will be granted for delays resulting from the Contractor's request for approval of construction methods not specifically identified in the permit.

**Where construction moratoriums are contained in a permit condition which restricts the Contractor's activities to certain times of the year, those moratoriums will apply only to the portions of the work taking place in the waters or wetlands provided that activities outside those areas is done in such a manner as to not affect the waters or wetlands.**



Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources  
Coleen Sullins, Director  
Division of Water Quality



January 11, 2008  
Warren County  
DWQ Project No. 20080052  
Bridge 67 on SR 1507  
TIP No. B-3707

**APPROVAL of TAR-PAMLICO BUFFER AUTHORIZATION with ADDITIONAL CONDITIONS**

Dr. Gregory J. Thorpe, Ph.D., Environmental Management Director  
NCDOT PDEA  
1598 Mail Service Centre  
Raleigh, NC 27699-1548

Dear Dr. Thorpe:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of replacing Bridge 67 on SR 1507 in Warren County:

**Tar-Pamlico Riparian Buffer Impacts**

Site	Zone 1 Impact (sq ft)	minus Wetlands in Zone 1 (sq ft)	= Zone 1 Buffers (not wetlands) (sq ft)	Zone 1 Buffer Mitigation Required (using 3:1 ratio)	Zone 2 Impact (sq ft)	minus Wetlands in Zone 2 (sq ft)	= Zone 2 Buffers (not wetlands) (sq ft)	Zone 2 Buffer Mitigation Required (using 1.5:1 ratio)
1	2460	0	2460	N/A	1351	0	1351	N/A
<b>Totals</b>	<b>2460</b>	<b>0</b>	<b>2460</b>	<b>0</b>	<b>1351</b>	<b>0</b>	<b>1351</b>	<b>0</b>

\* n/a = Total for Site is less than 1/3 acre and 150 linear feet of impact, no mitigation required  
**Total Buffer Impact for Project: 3811 square feet.**

The project shall be constructed in accordance with your application dated received January 9, 2008. This approval is valid for the Tar-Pamlico Riparian Buffer Rules (15A NCAC 2B .0250). In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If total wetland fills for this project (now or in the future) exceed one acre, or of total impacts to streams (now or in the future) exceed 150 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed below.

**Conditions of Certification:**

1. Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification.

Transportation Permitting Unit  
1650 Mail Service Center, Raleigh, North Carolina 27699-1650  
2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604  
Phone: 919-733-1786 / FAX 919-733-6893 / Internet: <http://h2o.enr.state.nc.us/ncwetlands>





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Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources  
Coleen Sullins, Director  
Division of Water Quality

2. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*.
3. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
4. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
5. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions.
6. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
7. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
8. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
9. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
10. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
11. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
12. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
13. A copy of this Water Quality Certification shall be maintained on site at the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
14. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
15. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
16. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.

Transportation Permitting Unit  
1650 Mail Service Center, Raleigh, North Carolina 27699-1650  
2321 Crabtree Boulevard, Suite 250, Raleigh, North Carolina 27604  
Phone: 919-733-1786 / FAX 919-733-6893 / Internet: <http://h2o.enr.state.nc.us/ncwetlands>

One  
North Carolina  
*Naturally*



- \*17. Upon completion of the project (including any impacts at associated borrow or waste site), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.
18. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
19. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
20. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
- The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
21. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

If you do not accept any of the conditions of this certification, you may ask for an adjudicatory hearing. You must act within 60 days of the date that you receive this letter. To ask for a hearing, send a written petition that conforms to Chapter 150B of the North Carolina General Statutes to the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699. This certification and its conditions are final and binding unless you ask for a hearing. This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please contact Rob Ridings at (919) 733-9817

Sincerely,

Coleen Sullins  
Director

Attachment (Certificate of Completion form)

cc: Chris Murray, Division 5 Environmental Officer  
Eric Alsmeyer, US Army Corps of Engineers, Raleigh Field Office  
Travis Wilson, NC Wildlife Resources Commission  
File Copy



Michael F. Easley, Governor  
William G. Ross Jr., Secretary  
North Carolina Department of Environment and Natural Resources

Coleen Sullins, Director  
Division of Water Quality

DWQ Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

**\* Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Quality, 1650 Mail Service Center, Raleigh, NC, 27699-1650. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

**Applicant's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Agent's Certification**

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Engineer's Certification**

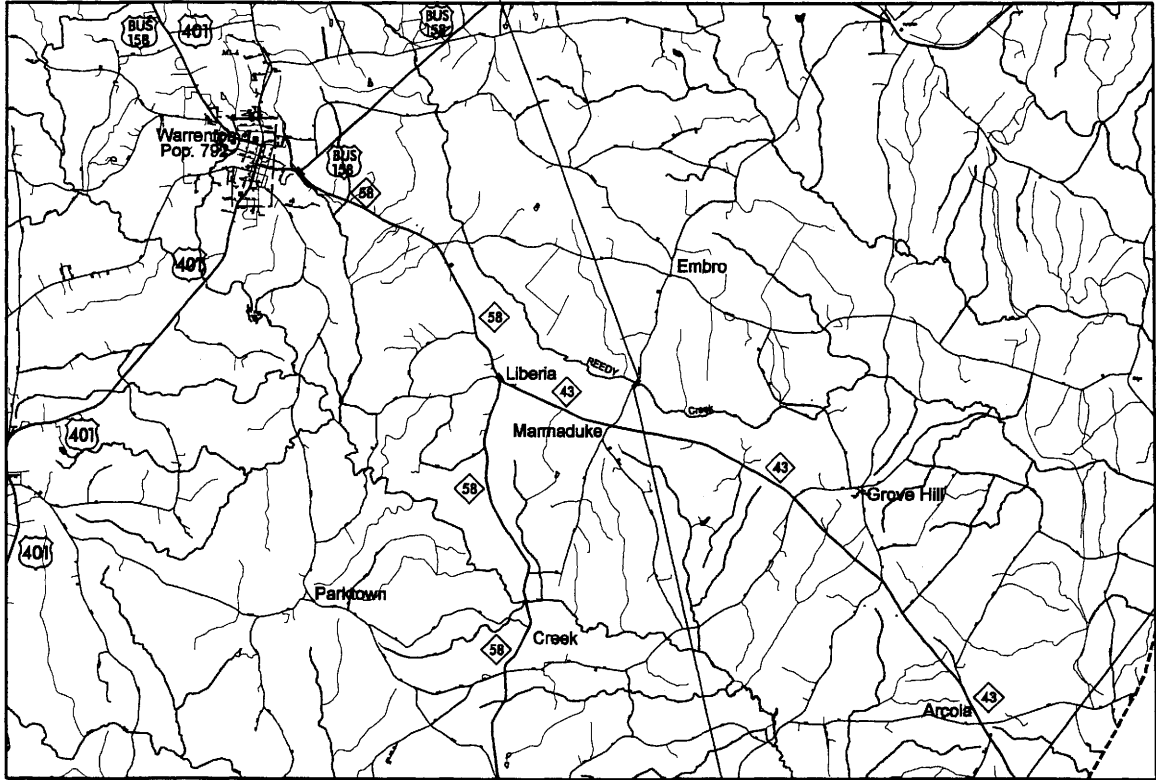
\_\_\_\_\_ Partial \_\_\_\_\_ Final

I, \_\_\_\_\_, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project, for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_

Date \_\_\_\_\_

END PROJECT

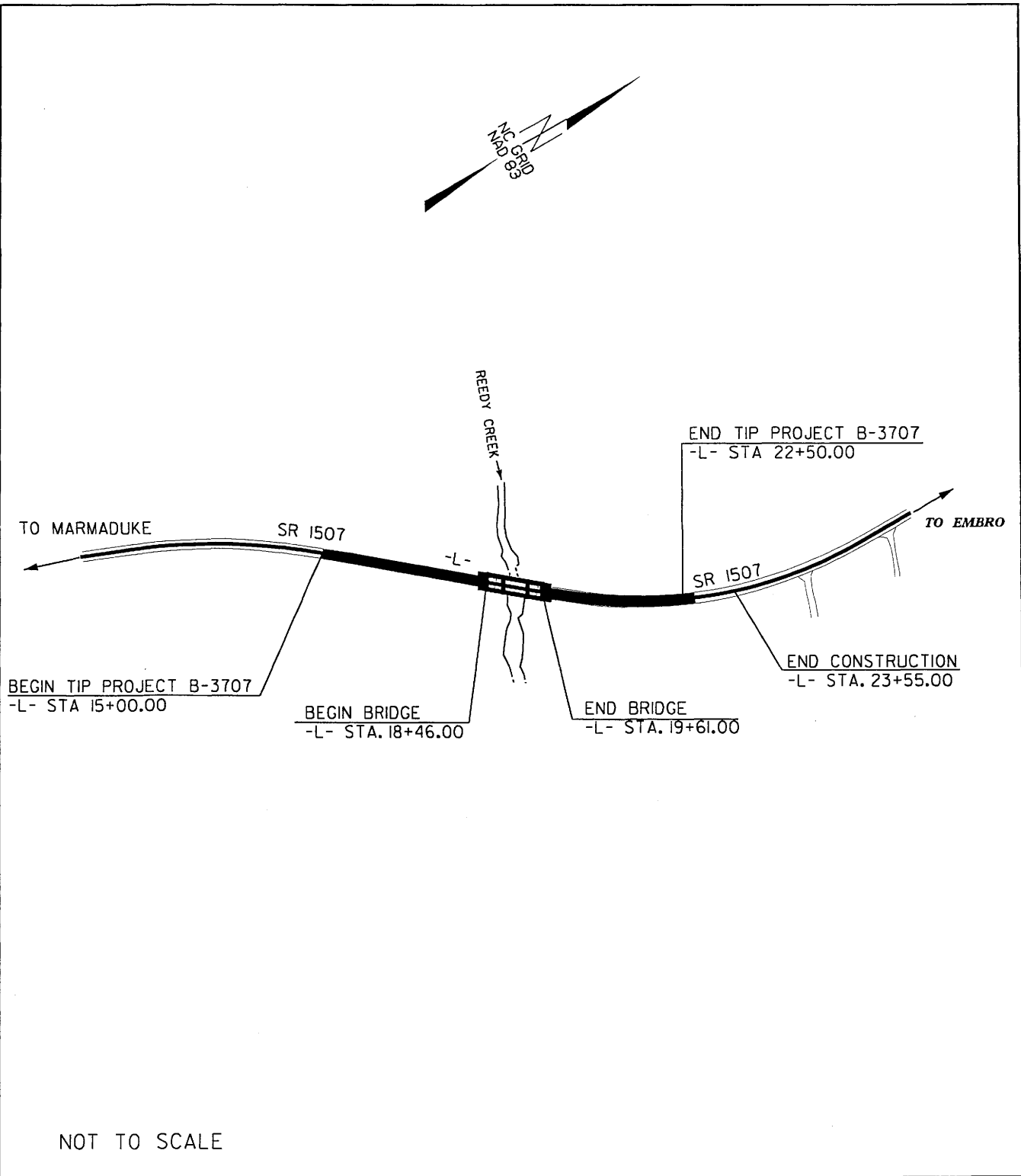


BEGIN PROJECT

NOT TO SCALE

TAR PAMLICO RIVER BUFFER  
VICINITY  
MAPS

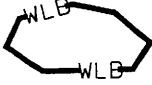

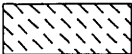


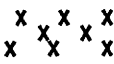

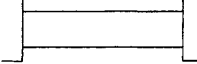
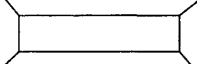


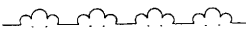

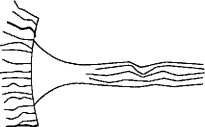



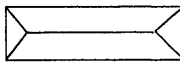
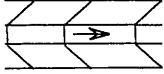
N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WARREN COUNTY  
PROJECT: 33247.1.1 (B-3707)  
BRIDGE NO. 67  
OVER REEDY CREEK  
ON SR 1507



TAR PAMLICO RIVER BUFFER  
LOCATION  
MAPS

N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WARREN COUNTY  
PROJECT: 33247.1.1 (B-3707)  
BRIDGE NO. 67  
OVER REEDY CREEK  
ON SR 1507

# BUFFER LEGEND

- |   |   |
|---|---|
| <p>— WLB — WETLAND BOUNDARY</p> <p> WETLAND</p> <p> ALLOWABLE IMPACTS ZONE 1</p> <p> ALLOWABLE IMPACTS ZONE 2</p> <p> MITIGABLE IMPACTS ZONE 1</p> <p> MITIGABLE IMPACTS ZONE 2</p> <p>— BZ — RIPARIAN BUFFER ZONE</p> <p>— BZ1 — RIPARIAN BUFFER ZONE 1<br/>30 ft (9.2m)</p> <p>— BZ2 — RIPARIAN BUFFER ZONE 2<br/>20 ft (6.1m)</p> <p>→ → FLOW DIRECTION</p> <p>— TB — TOP OF BANK</p> <p>— WE — EDGE OF WATER</p> <p>— C — PROP. LIMIT OF CUT</p> <p>— F — PROP. LIMIT OF FILL</p> <p>— △ — PROP. RIGHT OF WAY</p> <p>— NG — NATURAL GROUND</p> <p>— PL — PROPERTY LINE</p> <p>— TDE — TEMP. DRAINAGE EASEMENT</p> <p>— PDE — PERMANENT DRAINAGE EASEMENT</p> <p>— EAB — EXIST. ENDANGERED ANIMAL BOUNDARY</p> <p>— EPB — EXIST. ENDANGERED PLANT BOUNDARY</p> <p>— ▽ — WATER SURFACE</p> <p> LIVE STAKES</p> <p> BOULDER</p> <p>— COIR FIBER ROLLS</p> | <p> PROPOSED BRIDGE</p> <p> PROPOSED BOX CULVERT</p> <p> PROPOSED PIPE CULVERT<br/>12"-48" PIPES<br/>54" PIPES &amp; ABOVE</p> <p>(DASHED LINES DENOTE EXISTING STRUCTURES)</p> <p> SINGLE TREE</p> <p> WOODS LINE</p> <p> DRAINAGE INLET</p> <p> ROOTWAD</p> <p> RIP RAP</p> <p> ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE</p> <p> PREFORMED SCOUR HOLE (PSH)</p> <p> LEVEL SPREADER (LS)</p> <p> DITCH/GRASS SWALE</p> |
|---|---|

**N. C. DEPT. OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**WARREN COUNTY**  
  
**PROJECT: 33247.11 (B-3707)**  
  
**BRIDGE NO. 67**  
**OVER REEDY CREEK**  
**ON SR 1507**

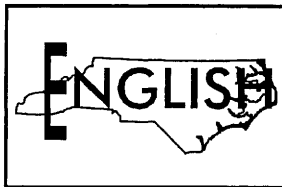
SHEET 3 OF 6
7 / 02 / 07



## SUMMARY OF AFFECTED PROPERTY OWNERS

TRACT NO.	PROPERTY OWNER	ADDRESS	SITE NO.
①	FISHING CREEK LAND & TIMBER CORPORATION	ROUTE 3, BOX 621 WARRENTON, NC 27589	1
②	ROBERT C. KELLEY & MARY E. KELLY	210 TIMBERWOOD AVE. SILVER SPRING, MO 20901	1
③	MARGARET MOSS	177 CIRCLE DRIVE TEANECK, NJ 07666	1
④	ELMER W. HARRIS	ROUTE 3, BOX 614 WARRENTON, NC 27589	1

N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WARREN COUNTY  
PROJECT: 33247.1.1 (B-3707)  
BRIDGE NO. 67  
OVER REEDY CREEK  
ON SR 1507



7/2/2007 8:53:4 AM R:\Hydraulic\cgn\permits\buffer\B3707\hyd.prm.buf.tsh.dgn

**BUFFER IMPACTS SUMMARY**

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	TYPE			IMPACT				BUFFER REPLACEMENT			
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )
1	BRIDGE - 21" PCCS, OAL = 115'	-L- 18+18 to 19+83	X			2460	572	3032					
						0	779	779					
<b>TOTAL:</b>						2460	1351	3811	0	0	0		

N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

WARREN COUNTY  
 PROJECT: 33247.1.1 (B-3707)  
 REPLACEMENT OF BRIDGE NO. 67  
 OVER REEDY CREEK ON SR 1507

11/6/2007  
 SHEET 5 OF 6

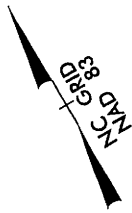
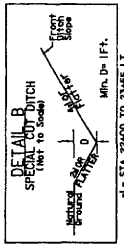
PROJECT REFERENCE NO. **B-3107** SHEET NO. **4**

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

**INCOMPLETE PLANS  
DO NOT USE FOR  
VIA ACCORDION  
PRELIMINARY PLANS  
DO NOT USE FOR  
CONSTRUCTION**

**KO & ASSOCIATES, P.C.**  
Consulting Engineers  
310 SOUTH PARKWAY, SUITE 100, WARREN, N.C. 27586  
PH: 919.286.1234 FAX: 919.286.1235



FISHING CREEK LAND & TIMBER CORPORATION

**GRASS SWALE**

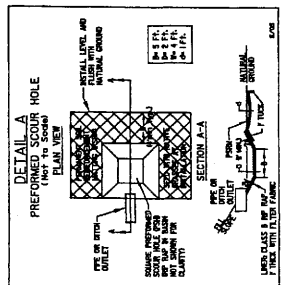
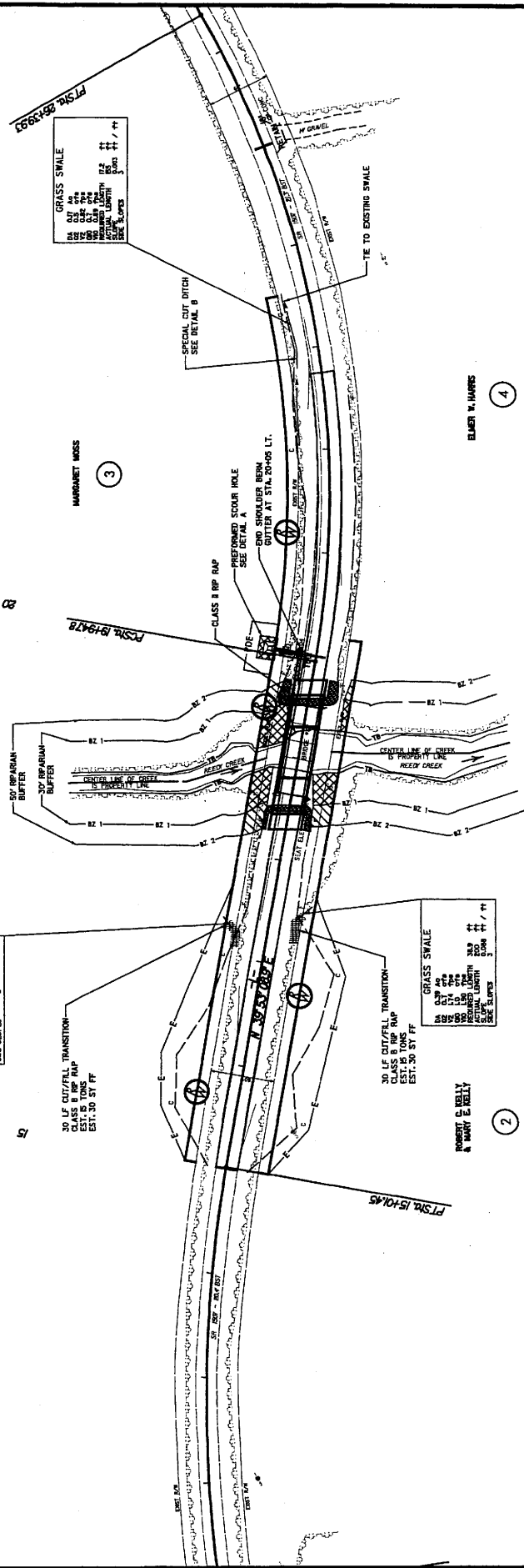
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10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10

**30 LF CUT/FILL TRANSITION**

IN	OUT	AD	SP	SL	FF
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
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10	10	10	10	10	10

**GRASS SWALE**

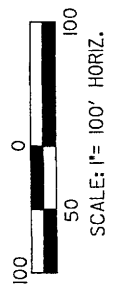
IN	OUT	AD	SP	SL	FF
10	10	10	10	10	10
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10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10
10	10	10	10	10	10



**LEGEND**

—	30' RIPARIAN BUFFER - ZONE 1
—	30' RIPARIAN BUFFER - ZONE 2
▨	ALLOWABLE IMPACTS ZONE 1
▩	ALLOWABLE IMPACTS ZONE 2

**BUFFER SITE 1  
PLAN VIEW**



Buffer Drawing  
Sheet **6** of **10**

N. C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WARREN COUNTY  
PROJECT: 33247.1.1 (B-3707)  
BRIDGE NO. 67  
OVER REEDY CREEK  
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SHEET 6 OF 6 7/02/07