

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY PERDUE GOVERNOR

EUGENE CONTI SECRETARY

September 16, 2010

MEMORANDUM TO: Mr. J. Wally Bowman, PE

Division Five Engineer

FROM:

Philip S. Harris, III, P.E., Unit Head

Natural Environment Unit

Project Development and Environmental Analysis Branch

SUBJECT:

Wake County, Edwards Mill Road (SR 3009) Greenway from Reedy Creek Road

(SR 1775) to Trinity Road (SR 1656); T.I.P. Number EB-4978; Federal Aid

Project No. STP-0520(31); WBS Element 39981

Attached is the Riparian Buffer Authorization for the above referenced project. All environmental permits have been received for the construction of this project.

A copy of this permit package will be posted on the NCDOT website at: http://www.ncdot.gov/doh/preconstruct/pe/neu/permit.html

PSH/gyb

Attachment

Cc: W/attachment

Mr. Randy Garris, P.E. State Contract Officer

Mr. Chris Murray, Division Environmental Officer

Cc: W/o attachment (see website for attachments)

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

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

Dr. David Chang, P.E., Hydraulics

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

Mr. Tom Koch, P.E., Structure Design

Mr. Dewayne Sykes, P.E., Utilities Unit

Mr. Mark Staley, Roadside Environmental

Mr. John F. Sullivan, FHWA

Mr. Ron Hancock, P.E., State Roadway Construction Engineer

Mr. Mike Robinson, P.E., State Bridge Construction Engineer

Ms. Beth Harmon, EEP

Mr. Eric Midkiff, P.E., PDEA Central Region Unit Head

PROJECT COMMITMENTS

Edwards Mill Road (SR 3009) Greenway
From Reedy Creek Road (SR 1775) to Trinity Road (SR 1656)
Raleigh
Wake County
WBS Element 39981
Federal Project Number STP-0520(31)
TIP Project Number EB-4978

Commitments Developed through Project Development and Design

There were no special commitments developed during project development or design.

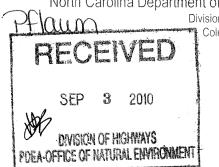
Commitments Developed Through the Permitting Process

There were no special commitments developed during the permitting process.



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue Governor



Division of Water Quality
Coleen H. Sullins
Director

Dee Freeman Secretary

September 2, 2010 Wake County NCDWQ Project No. 20100716 Edwards Mill Road multi-use path TIP No. EB-4978

APPROVAL of NEUSE BUFFER AUTHORIZATION with ADDITIONAL CONDITIONS

Dr. Gregory J. Thorpe, Environmental Management Director NCDOT PDEA 1598 Mail Service Center Raleigh, NC 27699-1598

Dear Dr. Thorpe:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of constructing a multi-use path along Edwards Mill Road in Wake County:

Neuse 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	215	0	215	N/A	705	0	705	N/A
2	1055	0	1055	N/A	730	0	730	N/A
3	2010	0	2010	N/A	895	0	895	N/A
Totals	3280	0	3280	0	2330	0	2330	0

* n/a = Allowable activity; no mitigation required.

Total Buffer Impact for Project: 5,610 square feet.

The project shall be constructed in accordance with your application dated received August 31, 2010. This approval is valid for the Neuse Riparian Buffer Rules (15A NCAC 2B.0233). 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 NCDWQ 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). Additional buffer impacts may require compensatory mitigation as described in 15A NCAC.0242(9). For this approval to remain valid, you must adhere to the conditions listed below.

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



Conditions of Certification:

- 1. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular NCDOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated with native woody species before the next growing season following completion of construction.
- 2. Pursuant to 15A NCAC 2B.0233(6), sediment and erosion control devices shall not be placed in Zone 1 of any Neuse Buffer without prior approval by NCDWQ. At this time, NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
- 3. All stormwater runoff shall be directed as sheetflow through stream buffers at nonerosive velocities, unless otherwise approved by this certification.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval.
- 9. 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.
- 10. 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.
- 11. 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.
- 12. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
- 13. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 14. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If NCDWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, NCDWQ may reevaluate and modify this certification.
- 15. A copy of this Water Quality Certification shall be maintained on 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.

- 16. 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.
- 17. 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.
- 18. The Permittee shall report any violations of this certification to the Division of Water Quality within 24 hours of discovery.
- 19. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify NCDWQ when all work included in the Certification has been completed.
- 20. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction.
- 21. 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.
- 22. 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:
 - a. 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*.
 - b. 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.
 - c. 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*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 23. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification.

If you wish to contest any statement in the attached Certification you must file a petition for an administrative hearing. You may obtain the petition form from the office of Administrative hearings. You must file the petition with the office of Administrative Hearings within sixty (60) days of receipt of this notice. A petition is considered filed when it is received in the office of Administrative Hearings during normal office hours. The Office of Administrative Hearings accepts filings Monday through Friday between the hours of 8:00am and 5:00pm, except for official state holidays. The original and one (1) copy of the petition must be filed with the Office of Administrative Hearings.

The petition may be faxed-provided the original and one copy of the document is received by the Office of Administrative Hearings within five (5) business days following the faxed transmission. The mailing address for the Office of Administrative Hearings is:

Office of Administrative Hearings 6714 Mail Service Center Raleigh, NC 27699-6714 Telephone: (919)-733-2698, Facsimile: (919)-733-3478

A copy of the petition must also be served on DENR as follows:

Ms. Mary Penny Thompson, General Counsel Department of Environment and Natural Resources 1601 Mail Service Center Raleigh, NC 27699-1601

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.

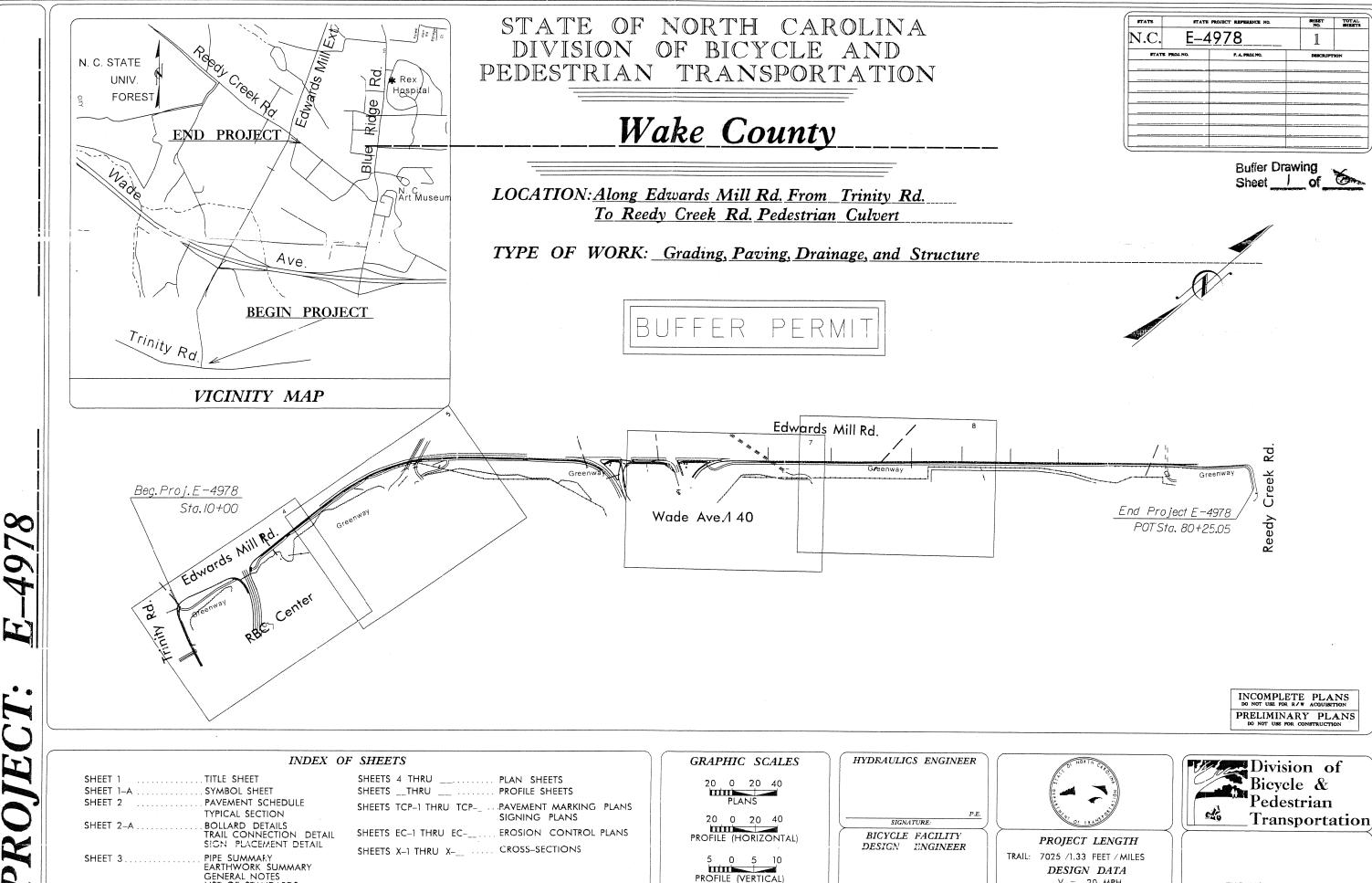
Sincerely,

Coleen H. Sullins

Director

Cc: Chris Murray, Division 5 Environmental Officer Eric Alsmeyer, US Army Corps of Engineers, Raleigh Field Office James Pflaum, NCDOT NEU File Copy

NCDWQ 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 Cany subsequent modifications, the applicant is required to retu Unit, North Carolina Division of Water Quality, 1650 Mail Semay be returned to NCDWQ by the applicant, the applicant's necessary to send certificates from all of these.	rn this certificate to the 401 Transportatervice Center, Raleigh, NC, 27699-1650	ion Permitting . This form
Applicant's Certification I,, hereby state was used in the observation of the construction such that the c compliance and intent of the 401 Water Quality Certification a specifications, and other supporting materials.	onstruction was observed to be built wit	thin substantial
Signature:	Date:	
Agent's Certification I,, hereby state was used in the observation of the construction such that the c compliance and intent of the 401 Water Quality Certification a specifications, and other supporting materials.	that, to the best of my abilities, due care onstruction was observed to be built with and Buffer Rules, the approved plans an	e and diligence thin substantial
Signature:	Date:	<u> </u>
Engineer's Certification Partial Final I,, as a duly reconstruction, having been authorized to observe (periodically, were Permittee hereby state that, to the best of my abilities, due care construction such that the construction was observed to be built Water Quality Certification and Buffer Rules, the approved pl	registered Professional Engineer in the Sekly, full time) the construction of the pee and diligence was used in the observatilt within substantial compliance and into	State of North roject, for the ion of the ent of the 401
Signature	Registration No.	<u>·</u>
Date		



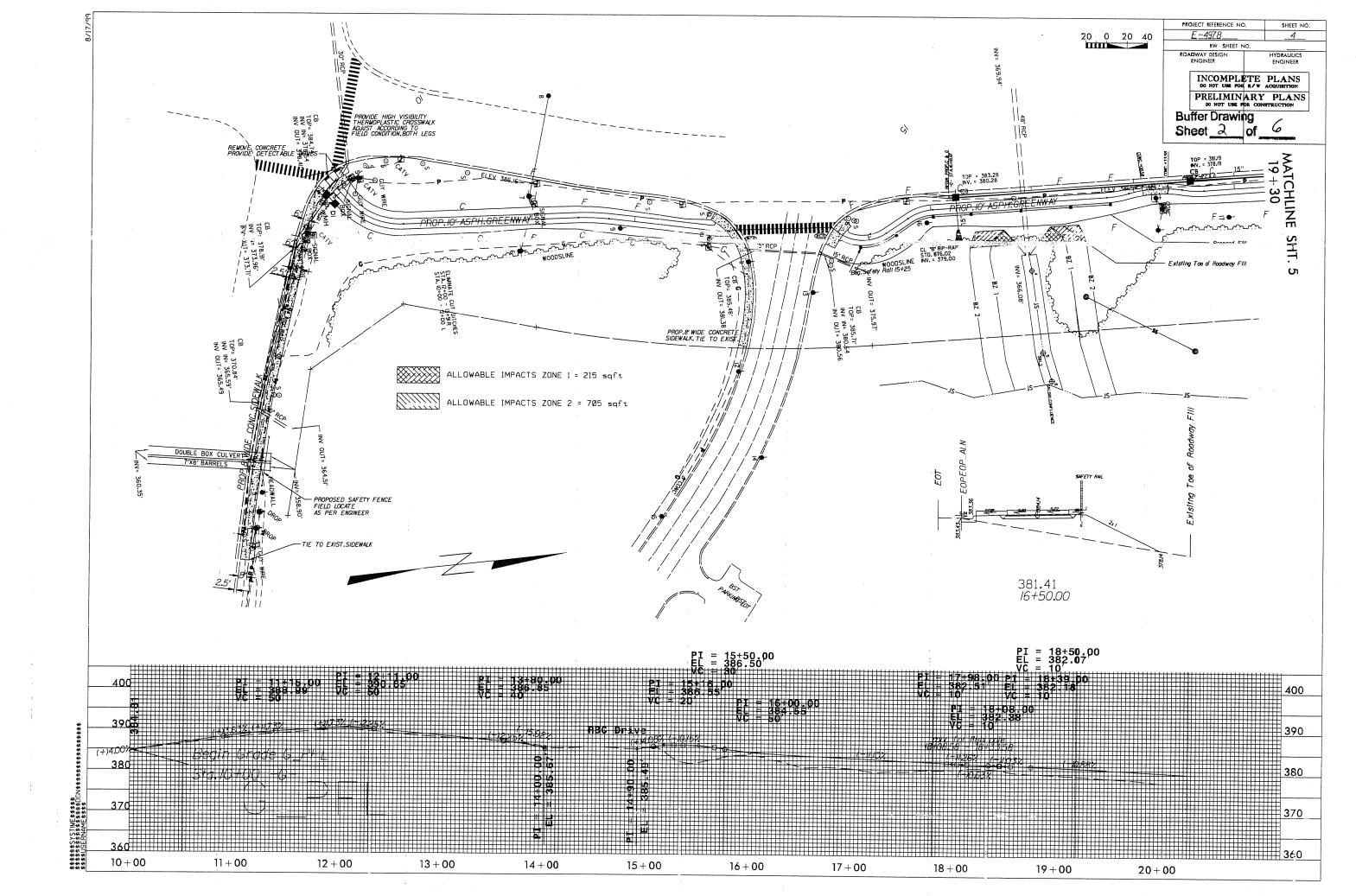
LIST OF STANDARDS

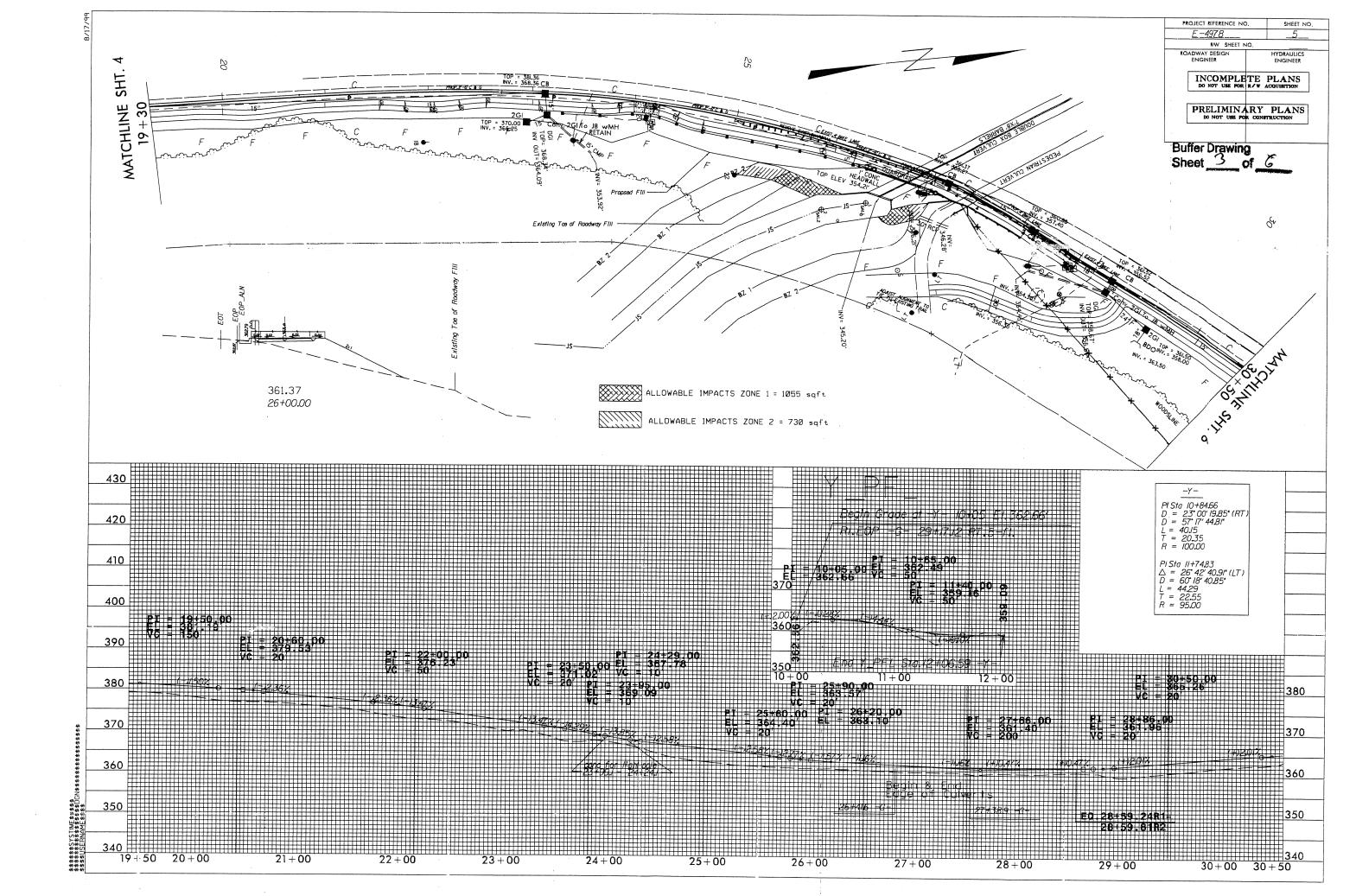
THC:MAS P. NORMAN DIRECTOR

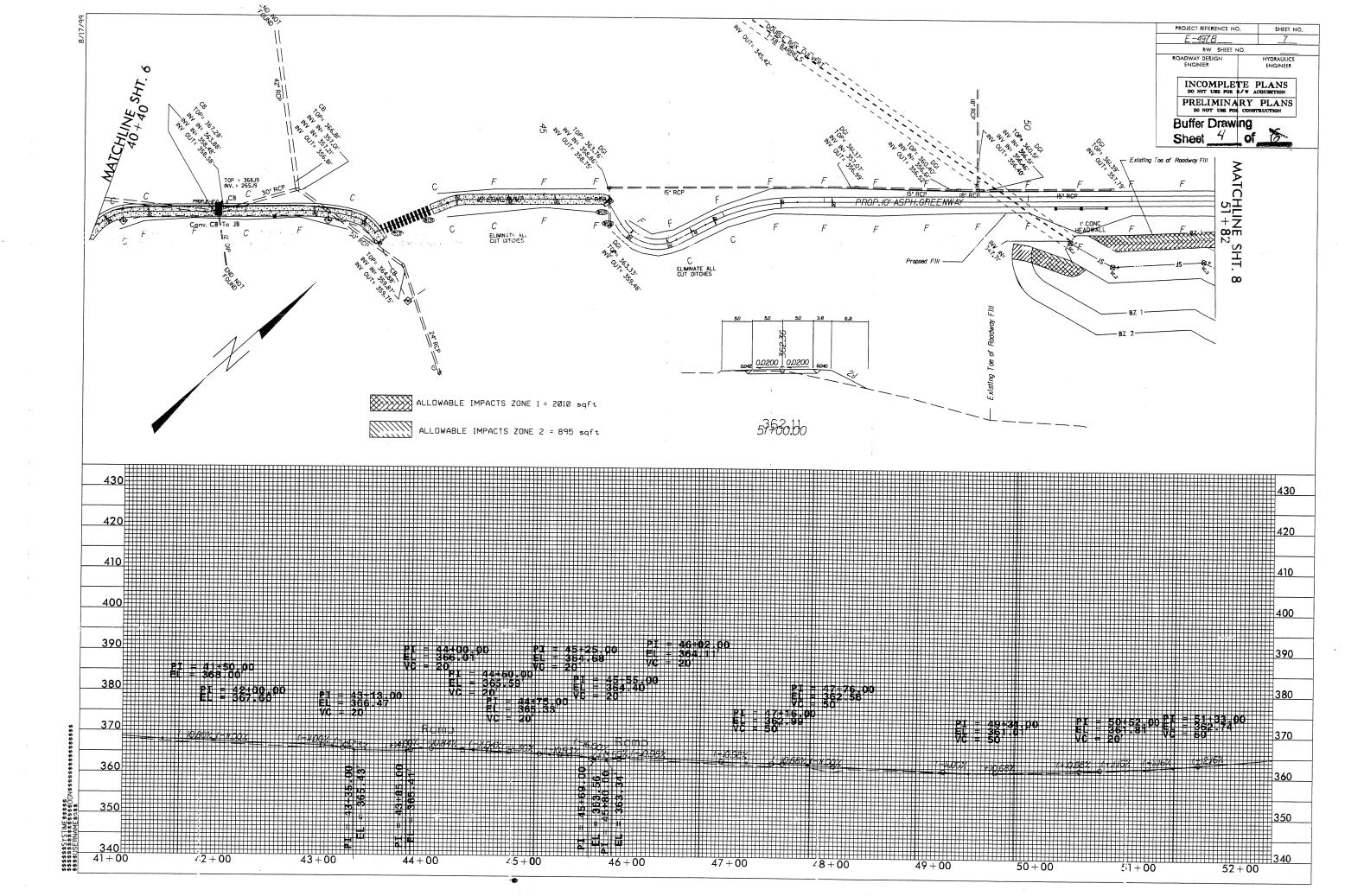
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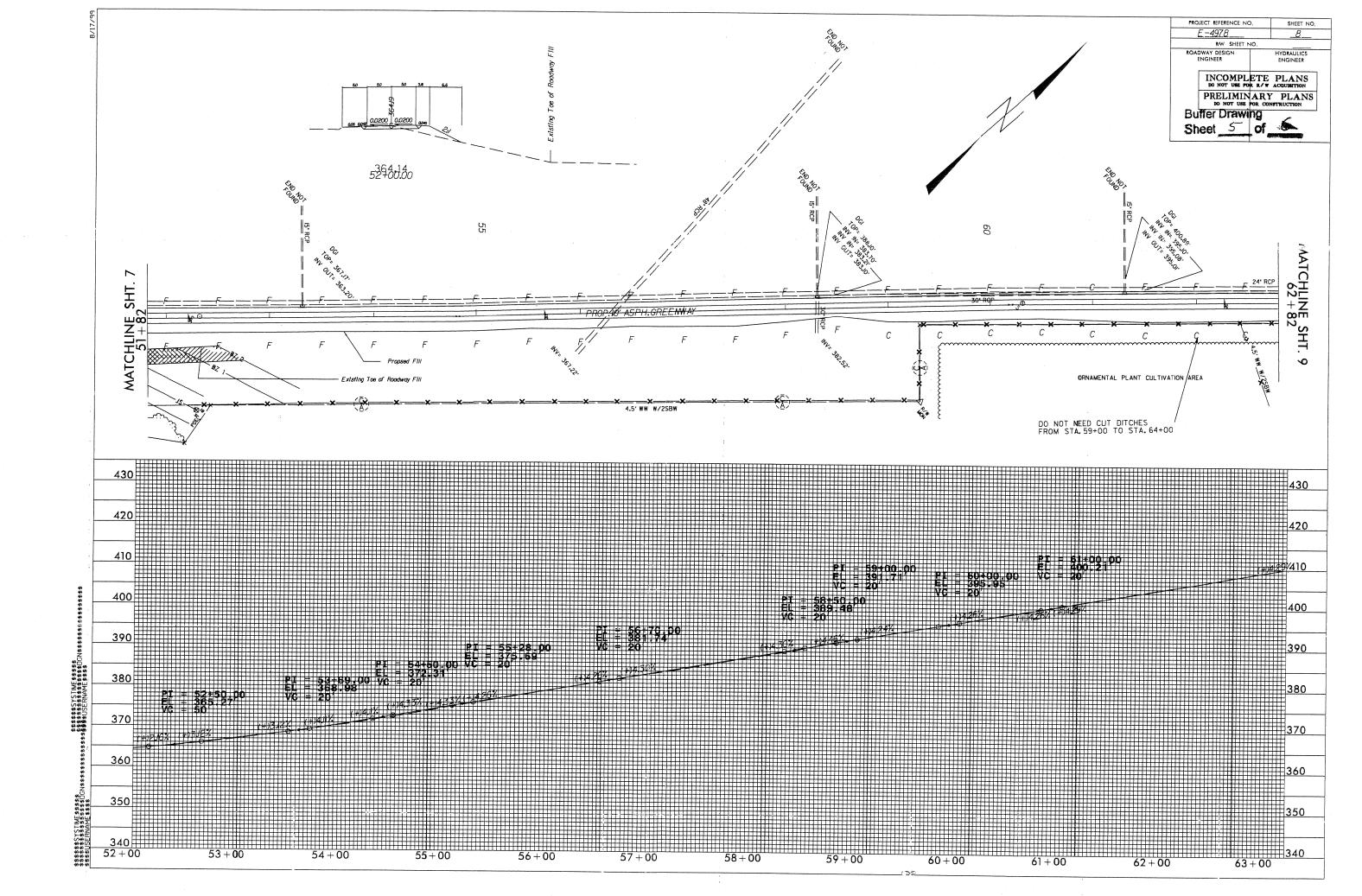
2006 SPECIFICATIONS

SIGNATURE









		- Province and the state of the	BU	FFER	BUFFER IMPACTS SUMMARY	STS S	UMM/	ARY					
							IMPACT					BUF	BUFFER
				TYPE		AL	ALLOWABLE	Э		MITIGABLE	Ē	REPLACEMENT	EMENT
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
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е	Ped. & Bike Path	-R- 49+85 To 52+75			×	2010	895	2905					
			And the second s						-				
TOTAL:						3280	2330	5610	0.0	0.0	0.0		

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY
PROJECT: E-4978
PED. & BIKE PATH ALONG EDWARDS MILL RD
FROM TRINITY DR TO REDDY CREEK RD
8/23^010
SHEET 6 OF 6

Rev. May 2006