

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

September 15, 2005

MEMORANDUM TO:

Mr. Ron Watson, P.E.

Division 14 Engineer

FROM:

Philip S. Harris, III, P.E.

Natural Environment Unit Head

Project Development and

Environmental Analysis Branch

SUBJECT:

Henderson County, Replace Bridge Number 265 on SR 1791

(Ballenger Road) over Dunn Creek; State Work Order Number

8.2952001; TIP Number B-3665

Attached is the U. S. Army Corps of Nationwide Permit No. 23 for the construction of the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc:

Mr. Art McMillan, P.E.

Mr. Omar Sultan

Mr. Jay Bennett, P.E.

Mr. David Chang, P.E.

Mr. Randy Garris, P.E.

Mr. Greg Perfetti, P.E.

Mr. Mark Staley

Mr. John Sullivan, FHWA

Mr. Mark Davis, Division 14 DEO

PROJECT COMMITMENTS

Henderson County
Bridge No. 265 on SR 1791 (Ballenger Road) Over Dunn Creek
Federal-aid Project No. BRZ-1791(1)
State Project No. 8.2952001
T.I.P. No. B-3665

In addition to the Nationwide Permit 23 Conditions, the General Nationwide Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, NCDOT's Guidelines for Best Management Practices for Bridge Demolition and Removal, NCDOT's Best Management Practices for Protection of Surface Waters, General Certification Conditions, and Section 401 Conditions of Certification, the following special commitments have been agreed to by NCDOT:

Division 14 & Roadside Environmental Unit

- Stringent sedimentation and erosion control measures must be implemented and maintained on the project site until project completion to avoid impacts to downstream aquatic resources.
- Temporary or permanent herbaceous vegetation should be planted on all bare soil as soon as
 possible and within 20 calendar days of ground disturbing activities to provide long- term
 erosion control.
- Tall fescue should not be used in riparian areas. NCDOT should utilize onsite vegetation and materials for streambank stabilization when practicable. Erosion control matting should be used in riparian areas, instead of straw mulch and well anchored with 12" staples or 12" wooden survey stakes.
- Culverts that are 48-inch diameter or larger should be placed with the floor of the barrel approximately 12 inches below the stream bottom to allow natural stream bottom materials to become established in the culvert following installation and to provide aquatic life passage during periods of low flow. This may require increasing the size of the culvert to meet flow conveyance requirements. These measurements must be based on natural thalweg depths.
- Culverts should be designed so that one barrel, of adequate size, will carry the base flow, and
 the others will carry stormwater. Barrels other than the base flow barrel should be placed on
 or near bankfull or floodplain bench elevation (similar to Lyonsfield design). This may be
 accomplished by utilizing sills on the upstream end to restrict or divert flow to the base flow
 barrel.
- Stormwater should be directed to buffer areas or retention basins and should not be routed directly into the stream.
- Discharge of materials into the stream from demolition of the old bridge should be avoided as much as practicable. Any materials that inadvertently reach the stream should be removed.

- The natural dimension, pattern, and profile of the stream above and below the crossing should not be modified by widening the stream channel or changing the depth of the stream.
- Removal of vegetation in riparian areas should be minimized. Native trees and shrubs should be planted along the streambanks to reestablish the riparian zone and to provide long-term erosion control.
- Grading and backfilling should be minimized, and tree and shrub growth should be retained if
 possible to ensure long term availability of shoreline cover for fish and wildlife. Backfill
 materials should be obtained from upland sites.
- Riprap placed for bank stabilization should be limited to the streambank below the high water mark, and vegetation should be used for stabilization above the high water elevation.
- If concrete will be used during construction, work must be accomplished so that wet (uncured) concrete does not contact surface waters. This will lessen the chance of altering the water chemistry and causing a fish kill.
- Discharging hydro seeding mixtures and washing out hydro seeders and other equipment in or adjacent to surface waters is strictly prohibited.
- Heavy equipment should be operated from the bank rather than in the stream channel whenever possible in order to minimize sedimentation and reduce the likelihood of introducing other pollutants into the stream. All mechanized equipment operated near surface waters should be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids or other toxic materials.

U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action ID. 200230311

County: Henderson

USGS Quad: Hendersonville

AUG 30 2005 DIVISION OF HIGHWAY

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICAPMONICE OF NATURAL ENVIRONMENTAL ENVI

Property Owner / Authorized Agent: NC Department of Transportation, Project Development and Environmental

Analysis Branch, Attn: Gregory J. Thorpe, Director

Address: 1548 Mail Service Center

Raleigh, North Carolina

27699-1548

Telephone No.: 919-733-3141

Size and location of property (water body, road name/number, town, etc.): Bridge No. 265 over Dunn Creek on SR 1791 (Ballenger Road), east of Hendersonville, TIP B-3665.

Description of projects area and activity: Replace the existing bridge with a 60-foot long, double barrel, concrete box culvert at the same location. Place riprap on 50 feet of stream bank at the outlet end for scour protection, reshape/reslope 60 feet of stream bank at the inlet end and impact 0.019 acres of wooded wetland from mechanized clearing. SPECIAL CONDITIONS: 1) All conditions of the attached NC Wildlife Resources letter of July 29, 2005 are hereby incorporated as special conditions of this permit. 2) The unavoidable impacts to 0.019 acres of riverine wetlands and 170 linear feet of stream associated with this project shall be mitigated by NCDOT by providing 0.019 acres of restoration equivalent riverine wetlands and 170 linear feet of restoration equivalent warm water stream channel in the French Broad River Basin (Hydrologic Cataloging Unit 06010105). For wetlands, a minimum of 0.019 acres must be in the form of restoration. Based on your application, you intend to utilize the Ecosystem Enhancement Program (EEP) for mitigation. A confirmation letter from EEP that they are willing to provide the mitigation for this project should be provided within 120 days of the date of this verification.

Applicable Law: Section 404 (Clean Water Act, 33 USC 1344)

Section 10 (Rivers and Harbors Act, 33 USC 403)

Regional General Permit Number: Authorization:

Nationwide Permit Number: 23

SWL

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted plans. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order and/or appropriate legal action.

This verification will remain valid until the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to be modified, reissued or revoked prior to March 18, 2007. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. If prior to the expiration date identified below, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below provided it complies with all new and/or modified terms and conditions. The District Engineer may, at any time, exercise his discretionary authority to modify, suspend or revoke a case-specific activity's authorization under any NWP.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Quality (telephone (919) 733-1786) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal. State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact Mr. Steven Lund at telephone (828) 271-7980 x 223.

Corps Regulatory Official: Steven Lund

Date: 8/24/2005

Expiration Date of Verification: 3/18/2007

Page 1 of 2

Determination of Jurisdiction:

M	determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).					
	There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.					
	There are waters of the US and/or wetlands within the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.					
	The jurisdictional areas within the above described project area have been identified under a previous action. Please reference jurisdictional determination issued Action ID					
Bas	sis of Jurisdictional Determination:					
Co	ps Regulatory Official: Steven Lund					
Dat	e 8/24/2005					

SURVEY PLATS, FIELD SKETCH, WETLAND DELINEATION FORMS, PROJECT PLANS, ETC., MUST BE ATTACHED TO THE FILE COPY OF THIS FORM, IF REQUIRED OR AVAILABLE.

Action ID Number: 200230311	, TIP B-3665	•	County: Henderson
Permittee: NCDOT, PD&EA,	Attn: Gregory J. T	Thorpe, Director	
Date Permit Issued: <u>8/24/2005</u>	<u>5</u> ·		
Project Manager: Pennock			
Upon completion of the activit sign this certification and return			gation required by the permit,
		RPS OF ENGINEERS	S
	WILMING	TON DISTRICT	
\mathbf{A}	SHEVILLE REGU	LATORY FIELD OF	FICE
	151 PATTON AVI	ENUE, ROOM 208	
		RTH CAROLINA 28	801-5006
•	•		ection by a U.S. Army Corps of e subject to permit suspension,
I hereby certify that the work a accordance with the terms and accordance with the permit co	condition of the sa	_	nit has been completed in red mitigation was completed in
·			
Signature of Permittee		Date	



Richard B. Hamilton, Executive Director

TO:

Angie Pennock, NCDOT Coordinator

Asheville Regulatory Field Office, USACE

FROM:

Marla Chambers, Western NCDOT Permit Coordinator

Habitat Conservation Program, NCWRC

DATE:

July 29, 2005

SUBJECT:

Review of the Categorical Exclusion document, the revised plans, and NCDOT's request for Section 404 and 401 Permits to replace Bridge No. 265 on SR 1791

Marla Chambers

(Ballenger Road) over Dunn Creek, Henderson County, North Carolina. TIP No.

B-3665.

North Carolina Department of Transportation (NCDOT) has requested a Section 404 Permit from the U.S. Army Corps of Engineers (USACE) and a 401 Water Quality Certification from the Division of Water Quality (NCDWQ). Staff biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the Categorical Exclusion (CE) document, revised plans, and information provided. These comments are provided in accordance with the provisions of the National Environmental Policy Act (42 U.S.C. 4332(2)(c)) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667d).

The NCDOT proposes to replace Bridge No. 265 on SR 1791 (Ballenger Road) over Dunn Creek with a two-barrel reinforced concrete box culvert (11' x 8') approximately 60 feet in length at the existing location. The proposed project will result in 170 linear feet of permanent impacts to the stream channel, which is more than reported in the CE for any alternative. The reasons for the considerable impacts beyond the culvert were not given in the original document or the revised plans, but we understand riprap will be used downstream of the culvert and bank sloping, benching and planting will occur upstream. These impacts should be minimized to the extent practicable. Dunn Creek is classified as C waters.

NCWRC can concur with the issuance of Section 404 and 401 permits provided that the following conditions are implemented:

- 1. Stringent sedimentation and erosion control measures must be implemented and maintained on the project site until project completion to avoid impacts to downstream aquatic resources.
- 2. Temporary or permanent herbaceous vegetation should be planted on all bare soil as soon as possible and within 20 calendar days of ground disturbing activities to provide long-term erosion control.
- 3. Tall fescue should not be used in riparian areas. We encourage NCDOT to utilize onsite vegetation and materials for streambank stabilization when practicable. Erosion control matting should be used in riparian areas, instead of straw mulch and well anchored with 12" staples or 12" wooden survey stakes.
- 4. Culverts that are 48-inch diameter or larger should be placed with the floor of the barrel approximately 12 inches below the stream bottom to allow natural stream bottom materials to become established in the culvert following installation and to provide aquatic life passage during periods of low flow. This may require increasing the size of the culvert to meet flow conveyance requirements. These measurements must be based on natural thalweg depths.
- 5. Culverts should be designed so that one barrel, of adequate size, will carry the base flow, and the others will carry stormwater. Barrels other than the base flow barrel should be placed on or near bankfull or floodplain bench elevation (similar to Lyonsfield design). This may be accomplished by utilizing sills on the upstream end to restrict or divert flow to the base flow barrel.
- 6. Stormwater should be directed to buffer areas or retention basins and should not be routed directly into the stream.
- 7. Discharge of materials into the stream from demolition of the old bridge should be avoided as much as practicable. Any materials that inadvertently reach the stream should be removed.
- 8. The natural dimension, pattern, and profile of the stream above and below the crossing should not be modified by widening the stream channel or changing the depth of the stream.
- 9. Removal of vegetation in riparian areas should be minimized. Native trees and shrubs should be planted along the streambanks to reestablish the riparian zone and to provide long-term erosion control.
- 10. Grading and backfilling should be minimized, and tree and shrub growth should be retained if possible to ensure long term availability of shoreline cover for fish and wildlife. Backfill materials should be obtained from upland sites.

11. Riprap placed for bank stabilization should be limited to the streambank below the high water mark, and vegetation should be used for stabilization above the high water elevation.

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- 12. If concrete will be used during construction, work must be accomplished so that wet (uncured) concrete does not contact surface waters. This will lessen the chance of altering the water chemistry and causing a fish kill.
- 13. Discharging hydroseeding mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is strictly prohibited.
- 14. Heavy equipment should be operated from the bank rather than in the stream channel whenever possible in order to minimize sedimentation and reduce the likelihood of introducing other pollutants into the stream. All mechanized equipment operated near surface waters should be inspected and maintained regularly to prevent contamination of surface waters from fuels, lubricants, hydraulic fluids or other toxic materials.

Thank you for the opportunity to review and comment on this project. If you have any questions regarding these comments, please contact me at (704) 485-2384.

cc: Marella Buncick, USFWS
Brian Wrenn, NCDWQ
Phil Harris, NCDOT

NATIONWIDE PERMIT 23

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS
FINAL NOTICE OF ISSUANCE AND MODIFICATION OF NATIONWIDE PERMITS
FEDERAL REGISTER
AUTHORIZED MARCH 18, 2002

Approved Categorical Exclusions: Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where that agency or department has determined, pursuant to the Council on Environmental Quality Regulation for Implementing the Procedural Provisions of the National Environmental Policy Act (NEPA) (40 CFR part 1500 et seq.), that the activity, work, or discharge is categorically excluded from environmental documentation because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment, and the Office of the Chief of Engineers (ATTN: CECW-OR) has been furnished notice of the agency's or department's application for the categorical exclusion and concurs with that determination. Before to approval for purposes of this nationwide permit of any agency's categorical exclusions, the Chief of Engineers will solicit public comment. In addressing these comments, the Chief of Engineers may require certain conditions for authorization of an agency's categorical exclusions under this nationwide permit. (Sections 10 and 404)

NATIONWIDE PERMIT GENERAL CONDITIONS

The following General Conditions must be followed in order for any authorization by a NWP to be valid:

- 1. Navigation. No activity may cause more than a minimal adverse effect on navigation.
- 2. Proper Maintenance. Any structure or fill authorized shall be properly maintained, including maintenance to ensure public safety.
- 3. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.
- 4. Aquatic Life Movements. No activity may substantially disrupt the necessary life-cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.
- 5. Equipment. Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.
- 6. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state or tribe in its Section 401 Water Quality Certification and Coastal Zone Management Act consistency determination.
- 7. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System; or in a river officially designated by Congress as a 'study river" for possible inclusion in the system, while the river is in an official study status; unless the appropriate Federal agency, with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation, or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).
- 8. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.
 - 9. Water Quality.

- a. In certain states and tribal lands an individual 401 Water Quality Certification must be obtained or waived (See 33 CFR 330.4(c)).
- b. For NWPs 12, 14, 17, 18, 32, 39, 40, 42, 43, and 44, where the state or tribal 401 certification (either generically or individually) does not require or approve water quality management measures, the permittee must provide water quality management measures that will ensure that the authorized work does not result in more than minimal degradation of water quality (or the Corps determines that compliance with state or local standards, where applicable, will ensure no more than minimal adverse effect on water quality). An important component of water quality management includes stormwater management that minimizes degradation of the downstream aquatic system, including water quality (refer to General Condition 21 for stormwater management requirements). Another important component of water quality management is the establishment and maintenance of vegetated buffers next to open waters, including streams (refer to General Condition 19 for vegetated buffer requirements for the NWPs).

This condition is only applicable to projects that have the potential to affect water quality. While appropriate measures must be taken, in most cases it is not necessary to conduct detailed studies to identify such measures or to require monitoring.

10. Coastal Zone Management. In certain states, an individual state coastal zone management consistency concurrence must be obtained or waived (see 33 CFR 330.4(d)).

11. Endangered Species.

- a. No activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will destroy or adversely modify the critical habitat of such species. Non-federal permittees shall notify the District Engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or is located in the designated critical habitat and shall not begin work on the activity until notified by the District Engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that may affect Federally-listed endangered or threatened species or designated critical habitat, the notification must include the name(s) of the endangered or threatened species that may be affected by the proposed work or that utilize the designated critical habitat that may be affected by the proposed work. As a result of formal or informal consultation with the FWS or NMFS the District Engineer may add species-specific regional endangered species conditions to the NWPs.
- b. Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the

USFWS or the NMFS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS and NMFS or their World Wide Web pages at http://www.fws.gov/r9endspp/endspp.html and http://www.nfms.noaa.gov/prot res/overview/es.html respectively.

12. Historic Properties. No activity that may affect historic properties listed, or eligible for listing, in the National Register of Historic Places is authorized, until the District Engineer has complied with the provisions of 33 CFR part 325, Appendix C. The prospective permittee must notify the District Engineer if the authorized activity may affect any historic properties listed, determined to be eligible, or which the prospective permittee has reason to believe may be eligible for listing on the National Register of Historic Places, and shall not begin the activity until notified by the District Engineer that the requirements of the National Historic Preservation Act have been satisfied and that the activity is authorized. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places (see 33 CFR 330.4(g)). For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the notification must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

13. Notification.

- a. Timing; where required by the terms of the NWP, the prospective permittee must notify the District Engineer with a preconstruction notification (PCN) as early as possible. The District Engineer must determine if the notification is complete within 30 days of the date of receipt and can request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the District Engineer will notify the prospective permittee that the notification is still incomplete and the PCN review process will not commence until all of the requested information has been received by the District Engineer. The prospective permittee shall not begin the activity:
- 1. Until notified in writing by the District Engineer that the activity may proceed under the NWP with any special conditions imposed by the District or Division Engineer; or
- 2. If notified in writing by the District or Division Engineer that an Individual Permit is required; or
- 3. Unless 45 days have passed from the District Engineer's receipt of the complete notification and the prospective permittee has not received written notice from the District or Division Engineer. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).
 - b. Contents of Notification: The notification must be in writing and include the

following information:

- 1. Name, address and telephone numbers of the prospective permittee;
- 2. Location of the proposed project;
- 3. Brief description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), Regional General Permit(s), or Individual Permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP (Sketches usually clarify the project and when provided result in a quicker decision.);
- 4. For NWPs 7, 12, 14, 18, 21, 34, 38, 39, 40, 41, 42, and 43, the PCN must also include a delineation of affected special aquatic sites, including wetlands, vegetated shallows (e.g., submerged aquatic vegetation, seagrass beds), and riffle and pool complexes (see paragraph 13(f));
- 5. For NWP 7 (Cutfall Structures and Maintenance), the PCN must include information regarding the original design capacities and configurations of those areas of the facility where maintenance dredging or excavation is proposed;
- 6. For NWP 14 (Linear Transportation Projects), the PCN must include a compensatory mitigation proposal to offset permanent losses of waters of the US and a statement describing how temporary losses of waters of the US will be minimized to the maximum extent practicable;
- 7. For NWP 21 (Surface Coal Mining Activities), the PCN must include an Office of Surface Mining (OSM) or state-approved mitigation plan, if applicable. To be authorized by this NWP, the District Engineer must determine that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are minimal both individually and cumulatively and must notify the project sponsor of this determination in writing;
- 8. For NWP 27 (Stream and Wetland Restoration Activities), the PCN must include documentation of the prior condition of the site that will be reverted by the permittee;
 - 9. For NWP 29 (Single-Family Housing), the PCN must also include:
- i. Any past use of this NWP by the Individual Permittee and/or the permittee's spouse;
- ii. A statement that the single-family housing activity is for a personal residence of the permittee;

- iii. A description of the entire parcel, including its size, and a delineation of wetlands. For the purpose of this NWP, parcels of land measuring \1/4\-acre or less will not require a formal on-site delineation. However, the applicant shall provide an indication of where the wetlands are and the amount of wetlands that exists on the property. For parcels greater than \1/4\-acre in size, formal wetland delineation must be prepared in accordance with the current method required by the Corps. (See paragraph 13(f));
- iv. A written description of all land (including, if available, legal descriptions) owned by the prospective permittee and/or the prospective permittee's spouse, within a one mile radius of the parcel, in any form of ownership (including any land owned as a partner, corporation, joint tenant, co-tenant, or as a tenant-by-the-entirety) and any land on which a purchase and sale agreement or other contract for sale or purchase has been executed;
- 10. For NWP 31 (Maintenance of Existing Flood Control Facilities), the prospective permittee must either notify the District Engineer with a PCN prior to each maintenance activity or submit a five-year (or less) maintenance plan. In addition, the PCN must include all of the following:
- i. Sufficient baseline information identifying the approved channel depths and configurations and existing facilities. Minor deviations are authorized, provided the approved flood control protection or drainage is not increased;
 - ii. A delineation of any affected special aquatic sites, including wetlands; and,
 - iii. Location of the dredged material disposal site;
- 11. For NWP 33 (Temporary Construction, Access, and Dewatering), the PCN must also include a restoration plan of reasonable measures to avoid and minimize adverse effects to aquatic resources;
- 12. For NWPs 39, 43 and 44, the PCN must also include a written statement to the District Engineer explaining how avoidance and minimization for losses of waters of the US were achieved on the project site;
- 13. For NWP 39 and NWP 42, the PCN must include a compensatory mitigation proposal to offset losses of waters of the US or justification explaining why compensatory mitigation should not be required. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;
- 14. For NWP 40 (Agricultural Activities), the PCN must include a compensatory mitigation proposal to offset losses of waters of the US. This NWP does not authorize the

relocation of greater than 300 linear feet of existing serviceable drainage ditches constructed in non-tidal streams unless, for drainage ditches constructed in intermittent nontidal streams, the District Engineer waives this criterion in writing, and the District Engineer has determined that the project complies with all terms and conditions of this NWP, and that any adverse impacts of the project on the aquatic environment are minimal, both individually and cumulatively;

- 15. For NWP 43 (Stormwater Management Facilities), the PCN must include, for the construction of new stormwater management facilities, a maintenance plan (in accordance with state and local requirements, if applicable) and a compensatory mitigation proposal to offset losses of waters of the US. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;
- 16. For NWP 44 (Mining Activities), the PCN must include a description of all waters of the US adversely affected by the project, a description of measures taken to minimize adverse effects to waters of the US, a description of measures taken to comply with the criteria of the NWP, and a reclamation plan (for all aggregate mining activities in isolated waters and non-tidal wetlands adjacent to headwaters and any hard rock/mineral mining activities);
- 17. For activities that may adversely affect Federally-listed endangered or threatened species, the PCN must include the name(s) of those endangered or threatened species that may be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work; and
- 18. For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.
- c. Form of Notification: The standard Individual Permit application form (Form ENG 4345) may be used as the notification but must clearly indicate that it is a PCN and must include all of the information required in (b) (1)-(18) of General Condition 13. A letter containing the requisite information may also be used.
- d. District Engineer's Decision: In reviewing the PCN for the proposed activity, the District Engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. The prospective permittee may submit a proposed mitigation plan with the PCN to expedite the process. The District Engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. If the District Engineer determines that the activity complies with the terms and conditions of the NWP

and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the District Engineer will notify the permittee and include any conditions the District Engineer deems necessary. The District Engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee is required to submit a compensatory mitigation proposal with the PCN, the proposal may be either conceptual or detailed. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the District Engineer will expeditiously review the proposed compensatory mitigation plan. The District Engineer must review the plan within 45 days of receiving a complete PCN and determine whether the conceptual or specific proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP.

If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then the District Engineer will notify the applicant either:

- 1. That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an Individual Permit;
- 2. that the project is authorized under the NWP subject to the applicant's submission of a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level; or
- 3. that the project is authorized under the NWP with specific modifications or conditions. Where the District Engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period. The authorization will include the necessary conceptual or specific mitigation or a requirement that the applicant submit a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level. When conceptual mitigation is included, or a mitigation plan is required under item (2) above, no work in waters of the US will occur until the District Engineer has approved a specific mitigation plan.
- e. Agency Coordination: The District Engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

For activities requiring notification to the District Engineer that result in the loss of greater than \1/2\-acre of waters of the US, the District Engineer will provide immediately (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy to the appropriate Federal or state offices (USFWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO), and, if appropriate, the NMFS). With the exception of

- NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the District Engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the District Engineer will wait an additional 15 calendar days before making a decision on the notification. The District Engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The District Engineer will indicate in the administrative record associated with each notification that the resource agencies' concerns were considered. As required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act, the District Engineer will provide a response to NMFS within 30 days of receipt of any Essential Fish Habitat conservation recommendations. Applicants are encouraged to provide the Corps multiple copies of notifications to expedite agency notification.
- f. Wetland Delineations: Wetland delineations must be prepared in accordance with the current method required by the Corps (For NWP 29 see paragraph (b)(9)(iii) for parcels less than (\1/4\-acre in size). The permittee may ask the Corps to delineate the special aquatic site. There may be some delay if the Corps does the delineation. Furthermore, the 45-day period will not start until the wetland delineation has been completed and submitted to the Corps, where appropriate.
- 14. Compliance Certification. Every permittee who has received NWP verification from the Corps will submit a signed certification regarding the completed work and any required mitigation. The certification will be forwarded by the Corps with the authorization letter and will include:
- a. A statement that the authorized work was done in accordance with the Corps authorization, including any general or specific conditions;
- b. A statement that any required mitigation was completed in accordance with the permit conditions; and
 - c. The signature of the permittee certifying the completion of the work and mitigation.
- 15. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the US authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit (e.g. if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the US for the total project cannot exceed \1/3\-acre).
- 16. Water Supply Intakes. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in the proximity of a public water supply intake except where the activity is for repair of the public water supply intake structures or adjacent bank stabilization.

- 17. Shellfish Beds. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4.
- 18. Suitable Material. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may consist of unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.) and material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the CWA).
- 19. Mitigation. The District Engineer will consider the factors discussed below when determining the acceptability of appropriate and practicable mitigation necessary to offset adverse effects on the aquatic environment that are more than minimal.
- a. The project must be designed and constructed to avoid and minimize adverse effects to waters of the US to the maximum extent practicable at the project site (i.e., on site).
- b. Mitigation in all its forms (avoiding, minimizing, rectifying, reducing or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.
- c. Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland impacts requiring a PCN, unless the District Engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. Consistent with National policy, the District Engineer will establish a preference for restoration of wetlands as compensatory mitigation, with preservation used only in exceptional circumstances.
- d. Compensatory mitigation (i.e., replacement or substitution of aquatic resources for those impacted) will not be used to increase the acreage losses allowed by the acreage limits of some of the NWPs. For example, \1/4\-acre of wetlands cannot be created to change a,\3/4\acre loss of wetlands to a \1/2\-acre loss associated with NWP 39 verification. However, \1/2\-acre of created wetlands can be used to reduce the impacts of a \1/2\-acre loss of wetlands to the minimum impact level in order to meet the minimal impact requirement associated with NWPs.
- e. To be practicable, the mitigation must be available and capable of being done considering costs, existing technology, and logistics in light of the overall project purposes. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferably in the same watershed.

- f. Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., easements, deed restrictions) of vegetated buffers to open waters. In many cases, vegetated buffers will be the only compensatory mitigation required. Vegetated buffers should consist of native species. The width of the vegetated buffers required will address documented water quality or aquatic habitat loss concerns. Normally, the vegetated buffer will be 25 to 50 feet wide on each side of the stream, but the District Engineers may require slightly wider vegetated buffers to address documented water quality or habitat loss concerns. Where both wetlands and open waters exist on the project site, the Corps will determine the appropriate compensatory mitigation (e.g., stream buffers or wetlands compensation) based on what is best for the aquatic environment or, a watershed basis. In cases where vegetated buffers are determined to be the most appropriate form of compensatory mitigation, the District Engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland impacts.
- g. Compensatory mitigation proposals submitted with the "notification" may be either conceptual or detailed. If conceptual plans are approved under the verification, then the Corps will condition the verification to require detailed plans be submitted and approved by the Corps prior to construction of the authorized activity in waters of the US.
- h. Permittees may propose the use of mitigation banks, in-lieu fee arrangements or separate activity-specific compensatory mitigation. In all cases that require compensatory mitigation, the mitigation provisions will specify the party responsible for accomplishing and/or complying with the mitigation plan.
- 20. Spawning Areas. Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., excavate, fill, or smother downstream by substantial turbidity) of an important spawning area are not authorized.
- 21. Management of Water Flows. To the maximum extent practicable, the activity must be designed to maintain preconstruction downstream flow conditions (e.g., location, capacity, and flow rates). Furthermore, the activity must not permanently restrict or impede the passage of normal or expected high flows (unless the primary purpose of the fill is to impound waters) and the structure or discharge of dredged or fill material must withstand expected high flows. The activity must, to the maximum extent practicable, provide for retaining excess flows from the site, provide for maintaining surface flow rates from the site similar to preconstruction conditions, and provide for not increasing water flows from the project site, relocating water, or redirecting water flow beyond preconstruction conditions. Stream channelizing will be reduced to the minimal amount necessary, and the activity must, to the maximum extent practicable, reduce adverse effects such as flooding or erosion downstream and upstream of the project site, unless the activity is part of a larger system designed to manage water flows. In most cases, it will not be a requirement to conduct detailed studies and monitoring of water flow.

This condition is only applicable to projects that have the potential to affect waterflows. While appropriate measures must be taken, it is not necessary to conduct detailed studies to identify such measures or require monitoring to ensure their effectiveness. Normally, the Corps will defer to state and local authorities regarding management of water flow.

- 22. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to the acceleration of the passage of water, and/or the restricting its flow shall be minimized to the maximum extent practicable. This includes structures and work in navigable waters of the US, or discharges of dredged or fill material.
- 23. Waterfowl Breeding Areas. Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, into breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.
- 24. Removal of Temporary Fills. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.
- 25. Designated Critical Resource Waters. Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, National Wild and Scenic Rivers, critical habitat for Federally listed threatened and endangered species, coral reefs, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the District Engineer after notice and opportunity for public comment. The District Engineer may also designate additional critical resource waters after notice and opportunity for comment.
- a. Except as noted below, discharges of dredged or fill material into waters of the US are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, and 44 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. Discharges of dredged or fill materials into waters of the US may be authorized by the above NWPs in National Wild and Scenic Rivers if the activity complies with General Condition 7. Further, such discharges may be authorized in designated critical habitat for Federally listed threatened or endangered species if the activity complies with General Condition 11 and the USFWS or the NMFS has concurred in a determination of compliance with this condition.
- b. For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with General Condition 13, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The District Engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.
- 26. Fills Within 100-Year Floodplains. For purposes of this General Condition, 100-year floodplains will be identified through the existing Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps or FEMA-approved local floodplain maps.

- a. Discharges in Floodplain; Below Headwaters. Discharges of dredged or fill material into waters of the US within the mapped 100year floodplain, below headwaters (i.e. five cfs), resulting in permanent above-grade fills, are not authorized by NWPs 39, 40, 42, 43, and 44.
- b. Discharges in Floodway; Above Headwaters. Discharges of dredged or fill material into waters of the US within the FEMA or locally mapped floodway, resulting in permanent above-grade fills, are not authorized by NWPs 39, 40, 42, and 44.
- c. The permittee must comply with any applicable FEMA-approved state or local floodplain management requirements.
- 27. Construction Period. For activities that have not been verified by the Corps and the project was commenced or under contract to commence by the expiration date of the NWP (or modification or revocation date), the work must be completed within 12-months after such date (including any modification that affects the project).

For activities that have been verified and the project was commenced or under contract to commence within the verification period, the work must be completed by the date determined by the Corps.

For projects that have been verified by the Corps, an extension of a Corps approved completion date maybe requested. This request must be submitted at least one month before the previously approved completion date.

FURTHER INFORMATION

- 1. District Engineers have authority to determine if an activity complies with the terms and conditions of a NWP.
- 2. NWPs do not obviate the need to obtain other Federal, State, or local permits, approvals, or authorizations required by law.
- 3. NWPs do not grant any property rights or exclusive privileges.
- 4. NWPs do not authorize any injury to the property or rights of others.
- 5. NWPs do not authorize interference with any existing or proposed Federal project.

DEFINITIONS

<u>Best Management Practices (BMPs)</u>: BMPs are policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting

from development. BMPs are categorized as structural or nonstructural. A BMP policy may affect the limits on a development.

<u>Compensatory Mitigation</u>: For purposes of Section 10/404, compensatory mitigation is the restoration, creation, enhancement, or in exceptional circumstances, preservation of wetlands and/or other aquatic resources for the purpose of compensating for unavoidable adverse impacts, which remain, after all appropriate and practicable avoidance and minimization has been achieved.

<u>Creation</u>: The establishment of a wetland or other aquatic resource where one did not formerly exist.

<u>Enhancement</u>: Activities conducted in existing wetlands or other aquatic resources that increase one or more aquatic functions.

<u>Ephemeral Stream</u>: An ephemeral stream has *flowing* water only during and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runnoff from rainfall is the primary source of water for stream flow.

<u>Farm Tract</u>: A unit of contiguous land under one ownership that is operated as a farm or part of a farm.

Flood Fringe: That portion of the 100-year floodplain outside of the floodway (often referred to as "floodway fringe").

<u>Floodway</u>: The area regulated by Federal, state, or local requirements to provide for the discharge of the base flood so the cumulative increase in water surface elevation is no more than a designated amount (not to exceed one foot as set by the National Flood Insurance Program) within the 100-year floodplain.

<u>Independent Utility</u>: A test to determine what constitutes a single and complete project in the Corps regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multiphase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

<u>Intermittent Stream</u>: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the US: Waters of the US that include the filled area and other waters that are permanently adversely affected by flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent above-grade, at-grade, or below-grade fills that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the US is the threshold measurement of the impact to existing waters for determining whether a project may qualify for a NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and values. The loss of stream bed includes the linear feet of stream bed that is filled or excavated. Waters of the US temporarily filled, flooded, excavated, or drained, but restored to preconstruction contours and elevations after construction, are not included in the measurement of loss of waters of the US. Impacts to ephemeral waters are only not included in the acreage or linear foot measurements of loss of waters of the US or loss of stream bed, for the purpose of determining compliance with the threshold limits of the NWPs.

Non-tidal Wetland: An area that, during a year with normal patterns of precipitation has standing or flowing water for sufficient duration to establish an ordinary high water mark. Aquatic vegetation within the area of standing or flowing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. The term "open water" includes rivers, streams, lakes, and ponds. For the purposes of the NWPs, this term does not include ephemeral waters.

<u>Perennial Stream</u>: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for the most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

<u>Permanent Above-grade Fill</u>: A discharge of dredged or fill material into waters of the US, including wetlands, that results in a substantial increase in ground elevation and permanently converts part or all of the waterbody to dry land. Structural fills authorized by NWPs 3, 25, 36, etc. are not included.

<u>Preservation</u>: The protection of ecologically important wetlands or other aquatic resources in perpetuity through the implementation of appropriate legal and physical mechanisms. Preservation may include protection of upland areas adjacent to wetlands as necessary to ensure protection and/or enhancement of the overall aquatic ecosystem.

<u>Restoration</u>: Re-establishment of wetland and/or other aquatic resource characteristics and function(s) at a site where they have ceased to exist, or exist in a substantially degraded state.

<u>Riffle and Pool Complex</u>: Riffle and pool complexes are special aquatic sites under the 404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

Single and Complete Project: The term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers (see definition of independent utility). For linear projects, the "single and complete project" (i.e., a single and complete crossing) will apply to each crossing of a separate water of the US (i.e., a single waterbody) at that location. An exception is for linear projects crossing a single waterbody several times at separate and distant locations; each crossing is considered a single and complete project. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies.

<u>Stormwater Management</u>: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

<u>Stormwater Management Facilities</u>: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and BMPs, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

<u>Stream Channelization</u>: The manipulation of a stream channel to increase the rate of water flow through the stream channel. Manipulation may include deepening, widening, straightening, armoring, or other activities that change the stream cross-section or other aspects of stream channel geometry to increase the rate of water flow through the stream channel. A channelized stream remains a water of the US, despite the modifications to increase the rate of water flow.

<u>Tidal Wetland</u>: A tidal wetland is a wetland (i.e., water of the US) that is inundated by tidal waters. The definitions of a wetland and tidal waters can be found at 33 CFR 328.3(b) and 33 CFR 328.3(f), respectively. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line (i.e., spring high tide line) and are inundated by tidal waters two times per lunar month, during spring high tides.

<u>Vegetated Buffer</u>: A vegetated upland or wetland area next to rivers, streams, lakes, or other

open waters, which separates the open water from developed areas, including agricultural land. Vegetated buffers provide a variety of aquatic habitat functions and values (e.g., aquatic habitat for fish and other aquatic organisms, moderation of water temperature changes, and detritus for aquatic food webs) and help improve or maintain local water quality. A vegetated buffer can be established by maintaining an existing vegetated area or planting native trees, shrubs, and herbaceous plants on land next to openwaters. Mowed lawns are not considered vegetated buffers because they provide little or no aquatic habitat functions and values. The establishment and maintenance of vegetated buffers I a method of compensatory mitigation that can be used in conjunction with the restoration, creation, enhancement or preservation of aquatic habitats to ensure that activities authorized by NWPs result in minimal adverse effects to the aquatic environment. (See General Condition 19.)

<u>Vegetated Shallows</u>: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

<u>Waterbody</u>: A waterbody is any area that in a normal year has water flowing or standing above ground to the extent that evidence of an ordinary high water mark is established. Wetlands contiguous to the waterbody are considered part of the waterbody.

FINAL REGIONAL CONDITIONS FOR NATIONWIDE PERMITS IN THE WILMINGTON DISTRICT

- 1. Waters Excluded from NWP or Subject to Additional Notification Requirements:
 - a. The Corps identified waters that will be excluded from use of this NWP. These waters are:
- 1. Discharges into Waters of the United States designated by either the North Carolina Division of Marine Fisheries (NCDMF) or the North Carolina Wildlife Resources Commission (NCWRC) as anadromous fish spawning area are prohibited during the period between February 15 and June 30, without prior written approval from NCDMF or NCWRC and the Corps.
- 2. Discharges into Waters of the United States designated as sturgeon spawning areas are prohibited during the period between February 1 and June 30, without prior written approval from the National Marine Fisheries Service (NMFS).
- b. The Corps identified waters that will be subject to additional notification requirements for activities authorized by this NWP. These waters are:
- 1. Prior to the use of any NWP in any of the following North Carolina designated waters, applicants must comply with Nationwide Permit General Condition 13. In addition, the applicant must furnish a written statement of compliance with all of the conditions of the applicable



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

September 14, 2005

To:

File

From:

Tyler Stanton, NEU Project Manager 15

Subject:

B-3665 Water Quality (401) Certification

Written concurrence with the 401 certification is not required for this project, per Division of Water Quality Certification #3403. Written concurrence from DWQ is not required unless any standard condition of the General Certification(s), and additional commitments developed through permitting (Greensheet) cannot be met.

WEBSITE: WWW.DOH.DOT.STATE.NC.US

WQC #3403

GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER 23 (APPROVED CATEGORICAL EXCLUSIONS) AND RIPARIAN AREA PROTECTION RULES (BUFFER RULES)

This General Certification is issued in conformity with the requirements of Section 401, Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality Regulations in 15A NCAC 2H, Section .0500 and 15A NCAC 2B .0200 for the discharge of fill material to waters and wetland areas as described in 33 CFR 330 Appendix A (B) (23) and for the Riparian Area Protection Rules (Buffer Rules) in 15A NCAC 2B .0200. This Certification replaces Water Quality Certification Number 2670 issued on January 21, 1992, Certification Number 2734 issued on May 1 1993, Certification Number 3107 issued on February 11, 1997 and Water Quality Certification Number 3361 issued March 18, 2002. This WQC is rescinded when the Corps of Engineers re-authorizes Nationwide Permit 23 or when deemed appropriate by the Director of the DWQ.

The State of North Carolina certifies that the specified category of activity will not violate applicable portions of Sections 301, 302, 303, 306 and 307 of the Public Laws 92-500 and 95-217 if conducted in accordance with the conditions hereinafter set forth.

Conditions of Certification:

- Proposed fill or substantial modification of wetlands or waters (including streams)
 under this General Certification requires notification to the Division of Water
 Quality. Two copies shall be submitted to DWQ at the time of notification in
 accordance with 15A NCAC 2H .0501(a). Written concurrence from DWQ is not
 required unless any standard conditions of this Certification cannot be met;
- 2. Appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" or the "North Carolina Surface Mining Manual" whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard;
- 3. In accordance with 15A NCAC 2H .0506 (h) compensatory mitigation may be required for impacts to 150 linear feet or more of streams and/or one acre or more of wetlands. In addition, buffer mitigation may be required for any project with Buffer Rules in effect at the time of application for buffer impacts resulting from activities classified as "allowable with mitigation" within the "Table of Uses" section of the Buffer Rules or require a variance under the Buffer Rules. A determination of buffer, wetland and stream mitigation requirements shall be made for any Certification for this Nationwide Permit. The most current design and monitoring protocols from DWQ shall be followed and written plans submitted for DWQ approval as required in those protocols. When compensatory mitigation is required for a project, the mitigation plans must be approved by DWQ in writing before the impacts approved by the Certification occur. The mitigation plan must be implemented and/or constructed before any permanent building or structure on

WQC #3403

site is occupied. In the case of public road projects, the mitigation plan must be implemented before the road is opened to the travelling public;

- 4. Compensatory stream mitigation shall be required at a 1:1 ratio for not only perennial but also intermittent stream impacts equal to or exceeding 150 feet and that require application to DWQ in watersheds classified as ORW, HQW, Tr, WS-I and WS-II unless the project is a linear, publicly-funded transportation project, which has a 150-foot per-stream impact allowance;
- All sediment and erosion control measures placed in wetlands or waters shall be removed and the original grade restored within two months after the Division of Land Resources has released the project;
- 6. Measures shall be taken to prevent live or fresh concrete from coming into contact with freshwaters of the state until the concrete has hardened;
- 7. In accordance with North Carolina General Statute Section 143-215.3D(e), any request for written concurrence for a 401 Water Quality Certification must include the appropriate fee. If a project also requires a CAMA Permit, one payment to both agencies shall be submitted and will be the higher of the two fees;
- 8. Impacts to any stream length in the Neuse, Tar-Pamlico, Randleman and Catawba River Basins (or any other river basins with Riparian Area Protection Rules [Buffer Rules] in effect at the time of application) requires written concurrence from DWQ in accordance with 15A NCAC 2B.0200. Activities listed as "exempt" from these rules do not need to apply for written concurrence under this Certification. New development activities located in the protected 50-foot wide riparian areas (whether jurisdictional wetlands or not) within the Neuse, Tar-Pamlico, Randleman and Catawba River Basins shall be limited to "uses" identified within and constructed in accordance with 15A NCAC 2B .0200. All new development shall be located, designed, constructed, and maintained to have minimal disturbance to protect water quality to the maximum extent practicable through the use of best management practices;
- Additional site-specific conditions may be added to projects for which written concurrence is required or requested under this Certification in order to ensure compliance with all applicable water quality and effluent standards;
- 10. Concurrence from DWQ that this Certification applies to an individual project shall expire three years from the date of the cover letter from DWQ or on the same day as the expiration date of the corresponding Nationwide and Regional General Permits, whichever is sooner;
- 11. When written concurrence is required, the applicant is required to use the most recent version of the Certification of Completion form to notify DWQ when all work included in the 401 Certification has been completed.

Non-compliance with or violation of the conditions herein set forth by a specific fill project shall result in revocation of this Certification for the project and may result in criminal and/or civil penalties.

WQC #3403

The Director of the North Carolina Division of Water Quality may require submission of a formal application for individual certification for any project in this category of activity that requires written concurrence under this certification, if it is determined that the project is likely to have a significant adverse effect upon water quality or degrade the waters so that existing uses of the wetland, stream or downstream waters are precluded.

Public hearings may be held for specific applications or group of applications prior to a Certification decision if deemed in the public's best interest by the Director of the North Carolina Division of Water Quality.

Effective date: March 2003

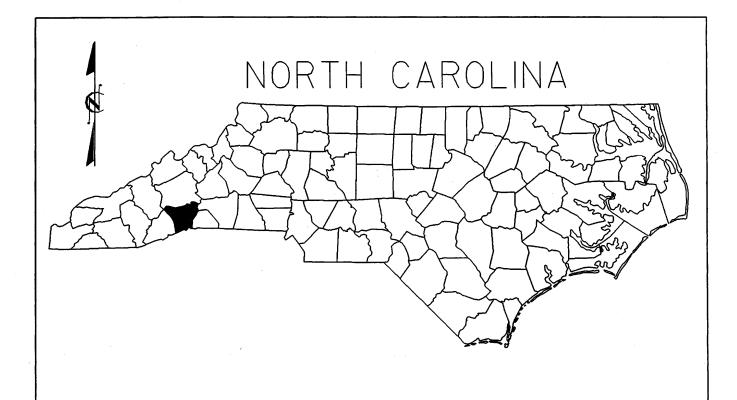
DIVISION OF WATER QUALITY

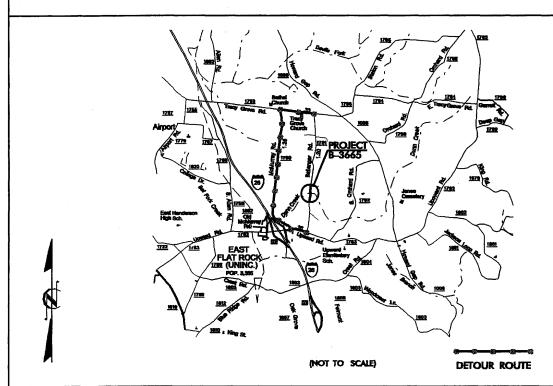
Ву

Alan W. Klimek, P.E.

Director

WQC # 3403





VICINITY MAPS

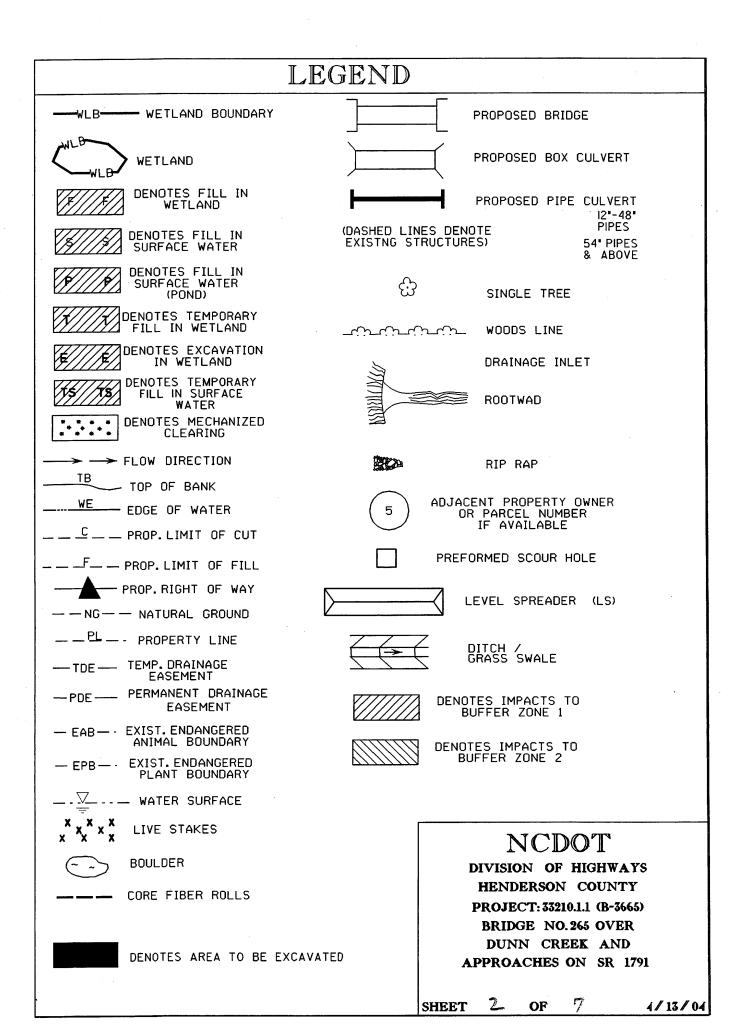
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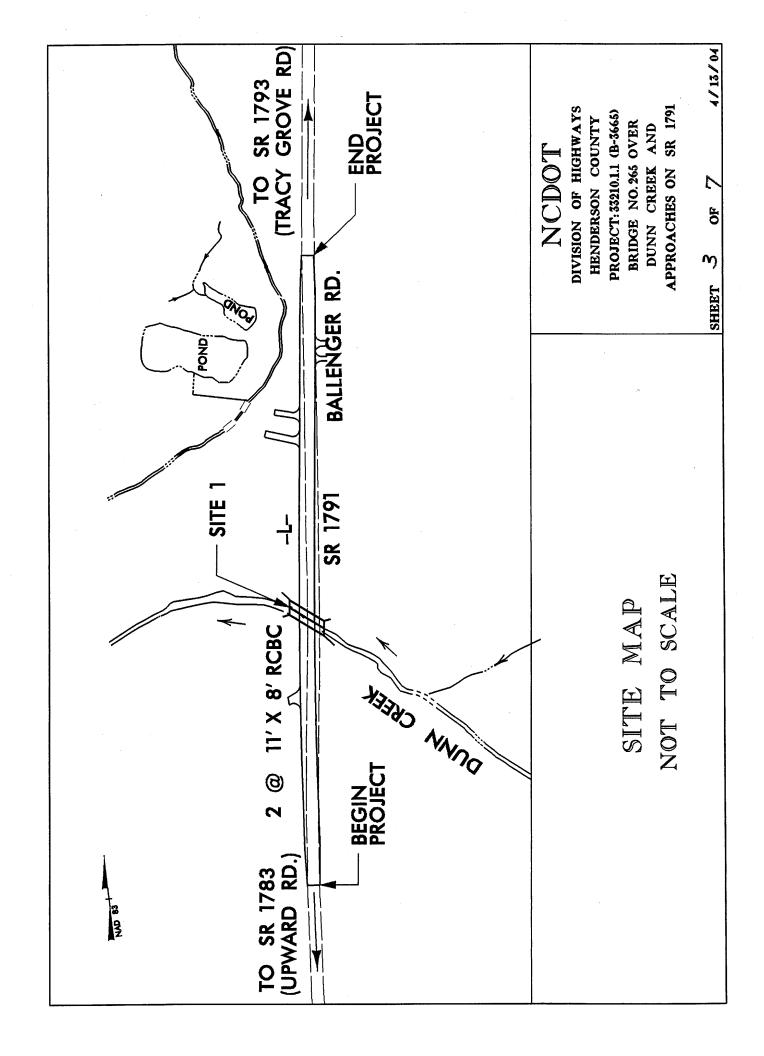
DIVISION OF HIGHWAYS
HENDERSON COUNTY
PROJECT: 33210.1.1 (B-3665)
BRIDGE NO. 265 OVER
DUNN CREEK AND
APPROACHES ON SR 1791

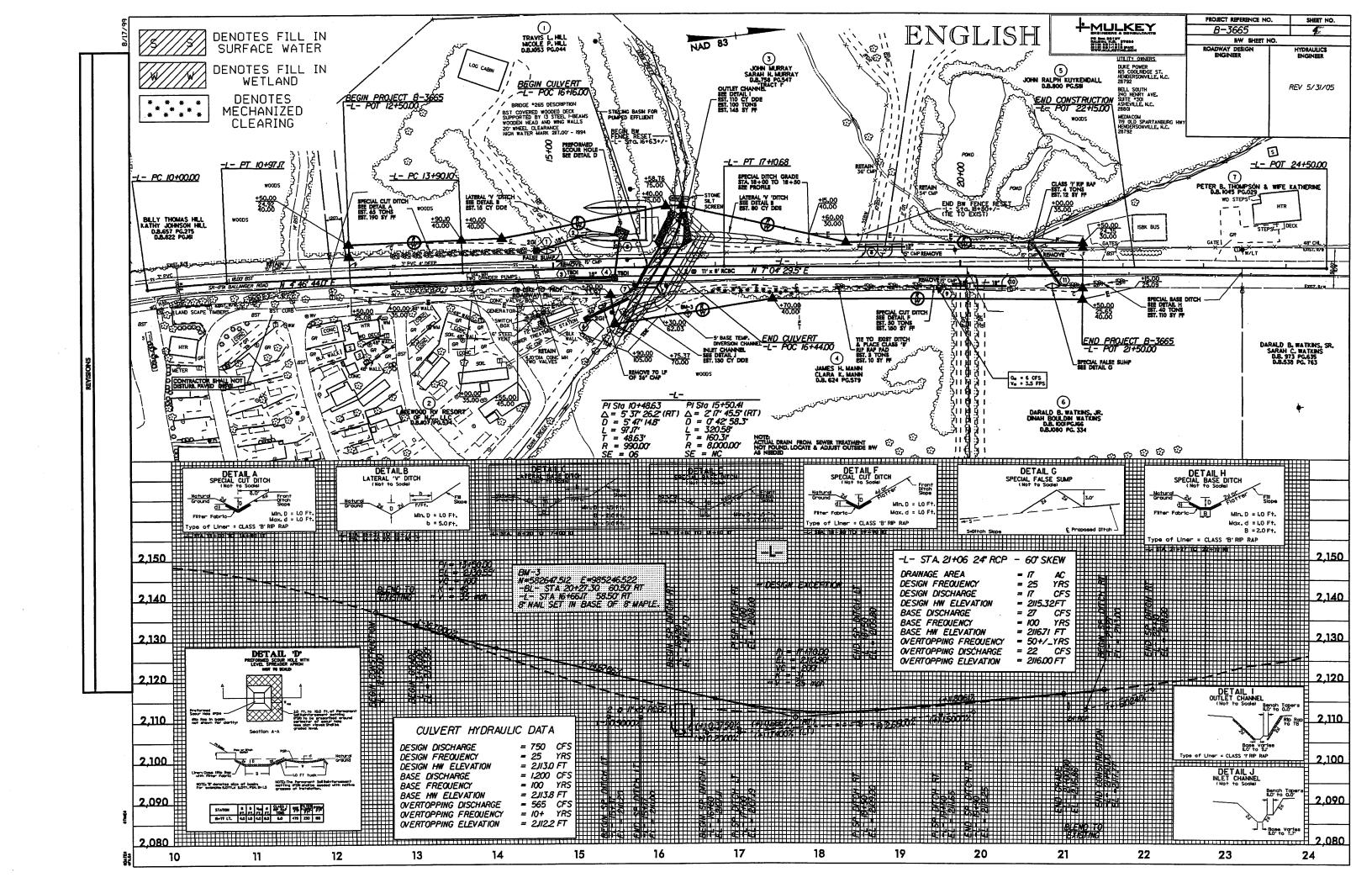
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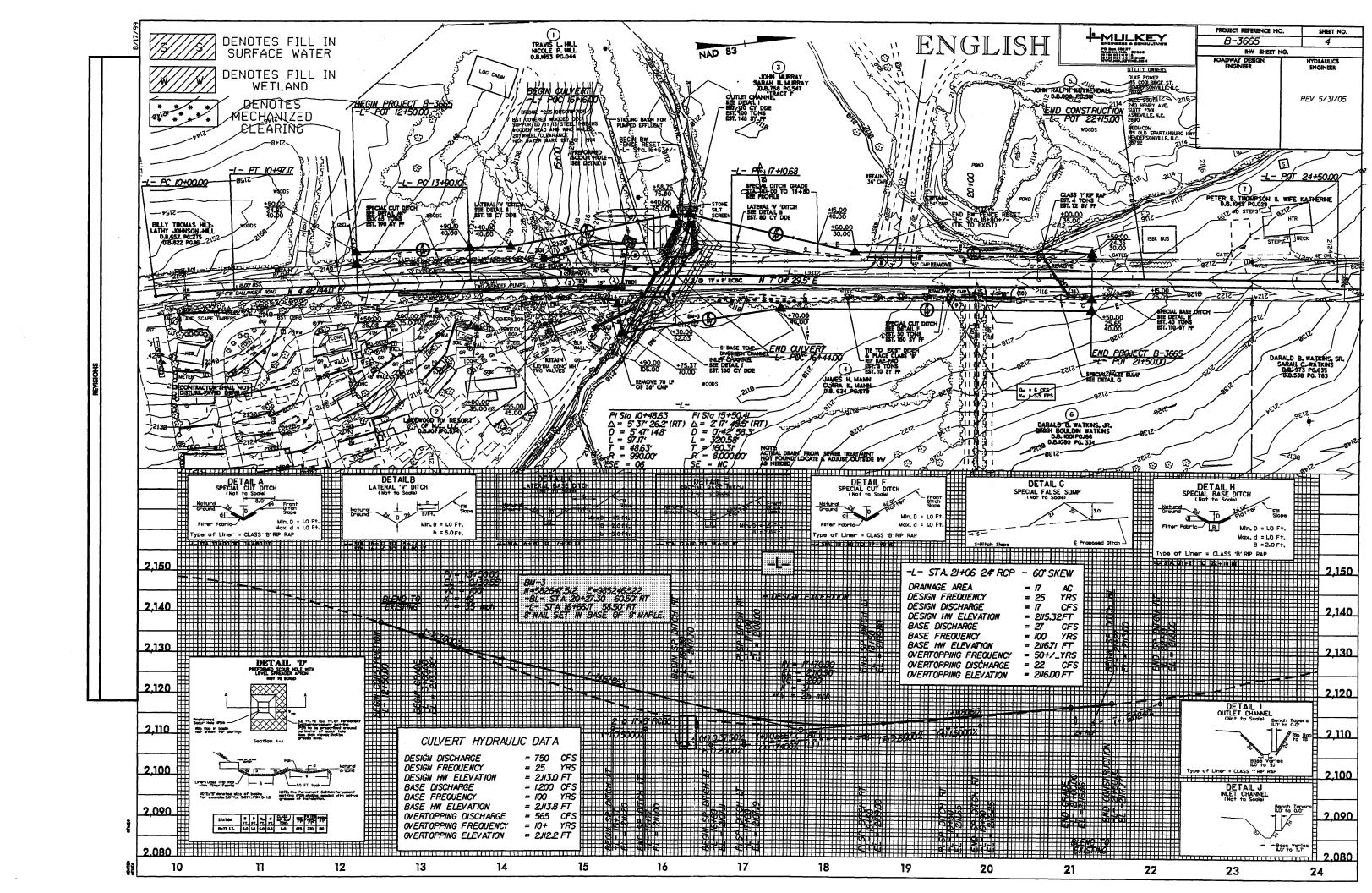
OF

4/13/04









PROPERTY OWNERS

NAMES AND ADDRESSES

REFERENCE NO.	NAMES	ADDRESSES	
1	Billy & Kachy Hill	Rt. 1 Box 494A. Flat Rock, NC 28731	
2	Bruce & Joyce Marsteller	Rt. 1 Box 495B Flat Rock, NC 28731	
3	John & Sarah Murray	Ré. 1 Box 493A Flat Rock, NC 28731	
4	James & Clara Mann	Ré. 1 Box 493 Flat Rock, NC 28731	

NCDOT

DIVISION OF HIGHWAYS
HENDERSON COUNTY
PROJECT: 33210.1.1 (B-3665)
BRIDGE NO. 265 OVER
DUNN CREEK AND
APPROACHES ON SR 1791

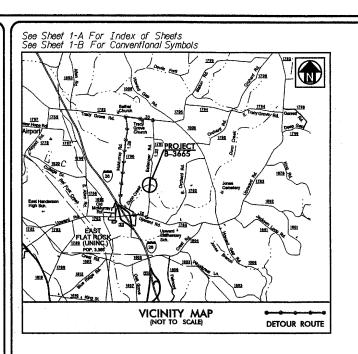
SHEET 6 OF 7 5/31/05

			_
	Natural Stream Design (ft)	0	AYS TY 3665) ER 1791
	Existing Channel Impacted (ft)	170	NCDOT TSION OF HIGHWANDERSON COUN ECT 33210.1.1 (B- LIDGE NO. 265 OV DUNN CREEK ANI ROACHES ON SR.
	Temp. Fill In SW (ac)	0	NCDOT DIVISION OF HIGHWAYS HENDERSON COUNTY PROJECT 33210.1.1 (B-3665) BRIDGE NO. 265 OVER DUNN CREEK AND APPROACHES ON SR 1791 HEET 7 OF 7 S/31/2
RY	Fill In SW (Pond) (ac)	0	
WETLANDS IMPACT PERMIT SUMMARY	Fill In SW (Natural) (ac)	0,030	
RMIT S	Mechanized Clearing (Method III) (ac)	0.019	
CT PE	Excavation In Wetlands (ac)	0	
SIMPA	Temp. Fill In Wetlands (ac)	0	
LAND	Fill In Wetlands (ac)		
WEJ	Structure Size / Type	Z @ 11 x 8' RCBC	
	Station (From/To)	16+30 -L-	From Ravised 3772/01
	Site No.	TOTOTAL S.	5 5 5 5 6 7

	Natural Stream Design (ft)	0	AYS TY 3665) ER) 1791
	Existing Channel Impacted (ft)	170	NCDOT TSION OF HIGHWASTON COUNTECT 33210.1.1 (B-10) CEEK AND COUNTECK
	Temp. Fill In SW (ac)	0	
RY	Fill In SW (Pond) (ac)	0	DI FRO B B API
WETLANDS IMPACT PERMIT SUMMARY	Fill In SW (Natural) (ac)	0.030	
RMIT S	Mechanized Clearing (Method III) (ac)	0.019	
CT PE	Excavation In Wetlands (ac)	0	
SIMPA	Temp. Fill In Wetlands (ac)	0	
ILAND	Fill In Wetlands (ac)		
WE	Structure Size / Type	Z @ 11 × 8 KCBC	
	Station (From/To)	10+30 -L-	Form Revised 3/22/01
	Site No.	TOTALS:	

0 Ŏ 2 E

C20122



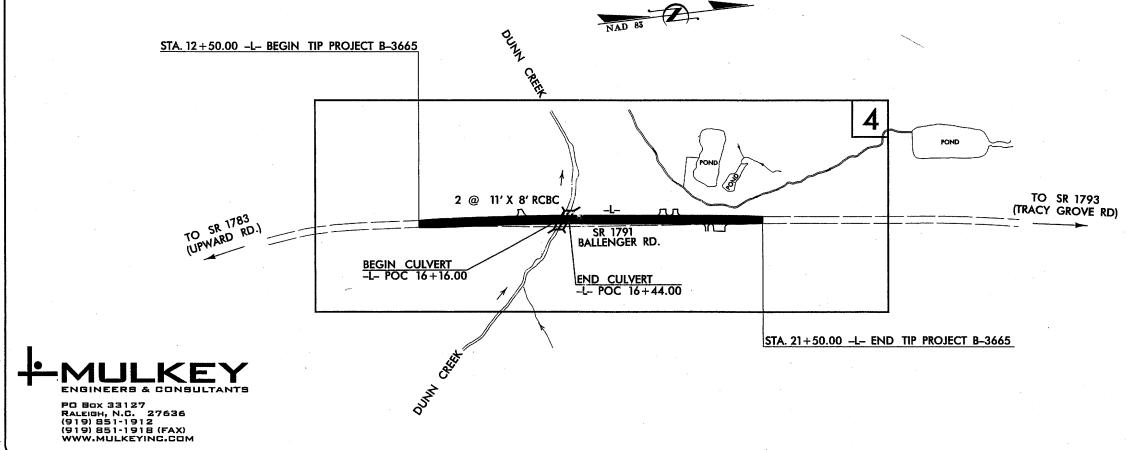
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

HENDERSON COUNTY

SHEET TOTAL SHEETS STATE N.C. B-3665 1 BRZ-1791(1) 7.5 \ P.E. 33210.1.1 33210.2.1 BRZ-1791(2) ŘW, UTL BRZ-1791(3) CONST 33210.3.1 3 3 W

LOCATION: BRIDGE NO. 265 OVER DUNN CREEK ON SR 1791 (BALLENGER ROAD)

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





GRAPHIC SCALE

PLANS

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

25' 0

DESIGN DATA

ADT 2005 = 778ADT 2025 = 1,300

DHV = 14%D = 55%

* T = 3%** V = 50 mph

Func Class = Local (Duals = 2% + TTST = 1%)

* Design Exception -

Design Speed

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-3665 = 0.165 MILE

LENGTH STRUCTURES TIP PROJECT B-3665 = 0.005 MILE

= 0.170 MILE TOTAL LENGTH TIP PROJECT B-3665

Prepared in the Office of: Mulkey Engineers & Consultants FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 2002 STANDARD SPECIFICATIONS TIM JORDAN, PE RIGHT OF WAY DATE: MULKEY E & C PROJECT MANAGER

APRIL 30, 2004

LETTING DATE:

JONATHAN SCARCE, PE MAY 17, 2005

NCDOT CONTACT: TERESA BRUTON, P.E.



ROADWAY DESIGN



DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

out millan

STATE HIGHWAY ENGINEER - DESIGN DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

1. 1	PROJECT REPERENCE NO.	SHEEL NO.
+MULKEY	B-3665	I-B_
PO 80x 25127 RALESH, N.C. 27026	RW SHEET NO.	
(PISISET-1918 TAX) (PISISET-1918 TAX) WWW.MULKEYING.SSM	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

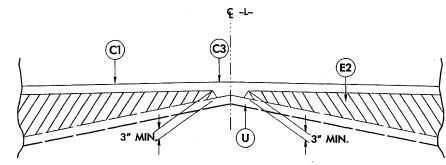
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

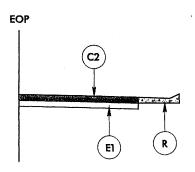
		COLVEINI		L CIMBOLO	BUILDINGS & OTHER C	ULTURE
ROADS & RELATED IT	EMS	MINOR		Recorded Water Line	Buildings	<u>5</u>
ige of Pavement		Head & End Wall	CONC HM	Designated Water Line (S.U.E.*)	Foundations	FJ
urb		Pipe Culvert			Area Outline	\
op. Slope Stakes Cut	<u> </u>	Footbridge		Recorded Sanitary Sewer Force Main	Gate	~ //
op. Slope Stakes Fill		Drainage Boxes		Designated Sanitary Sewer Force Main(S.U.E.*)ssss	Gas Pump Vent or U/G Tank Cap	. *
rop. Woven Wire Fence		Paved Ditch Gutter	ш	Recorded Gas Line	Church	4-
rop. Chain Link Fence		ruveu Diich Goller			School	***************************************
rop. Barbed Wire Fence rop. Wheelchair Ramp		UTILITIES		Designated Gas Line (S.U.E.*)	Park	
urb Cut for Future Wheelchair Ramp	€®	Exist. Pole	•	Storm Sewerss	•	
cist. Guardrail	Q	Exist. Power Pole	•	Recorded Power Line	Cemetery	
op. Guardrail		Prop. Power Pole	ò	Designated Power Line (S.U.E.*)	Sign	
dst. Cable Guiderail		Exist. Telephone Pole	-	Recorded Telephone Cable		s
rop. Cable Guiderailquality Symbol		Prop. Telephone Pole		Designated Telephone Cable (S.U.E.*)		•
avement Removal	•	Exist. Joint Use Pole		Recorded U/G Telephone Conduit	Small Mine	···· ×
RIGHT OF WAY		Prop. Joint Use Pole		Designated U/G Telephone Conduit (S.U.E.*)	Swimming Pool	
aseline Control Point	•	Telephone Pedestal		Unknown Utility (S.U.E.*)	TOPOGRAPHY	
sisting Right of Way Marker		Cable TV Pedestal	_	Recorded Television Cable	Loose Surface	
cist. Right of Way Line w/Marker			<u> </u>	Designated Television Cable (S.U.E.*)	Hard Surface	
op. Right of Way Line with Proposed		Hydrant	•	Recorded Fiber Optics Cable	Change in Road Surface	
W Marker (Iron Pin & Cap)		Satellite Dish	0	Designated Fiber Optics Cable (S.U.E.*)	Curb	
				Exist. Water Meter	Right of Way Symbol	
rop. Right of Way Line with Proposed		Sewer Clean Out	•	U/G Test Hole (S.U.E.*)	Guard Post	
Concrete or Granite) RW Marker			(P)	Abandoned According to U/G Record	Paved Walk	=
tist. Control of Access Line	\0/	Telephone Booth	. 91	End of Information EQL	Bridge	
rop. Control of Access Line	· ·	Water Manhole		BOUNDARIES & PROPERTIES		/
dist. Easement Line	——Е	Light Pole	п.	State Line	Box Culvert or Tunnel	,
op. Temp. Construction Easement Line	—————————————————————————————————	H-Frame Pole	••	County Line	••••	
op. Temp. Drainage Easement Line	— тре	Power Line Tower	\boxtimes			
op. Perm. Drainage Easement Line	··· PDE	Pole with Base		Township Line		
HYDROLOGY		Gas Valve		City Line	raii, roorpain	
		Gas Meter	•	Reservation Line	Light House	x
ow Arrow			•	Property Line	VEGETATION	- ₩-
sappearing Stream			0	Property Line Symbol	Single Tree	····· &
ring	_	Power Transformer		Exist. Iron Pin	Single Shrub	
ramp Marsh	- ,	Sanitary Sewer Manhole		Property Corner+	Hedge	-
oreline		Storm Sewer Manhole	-	Property Monument	Woods Line	
lls, Rapids				Property Number	Orchard	
pp Lateral, Tail, Head Ditches		- Waler tank Will Legs	\sim	Parcel Number6	Vineyard	
	··· >>>	Traffic Signal Junction Box	-	Fence Linexx	RAILROADS	VINEYARD
STRUCTURES		Fiber Optic Splice Box	F	Existing Wetland Boundaries		
dge, Tunnel, or Box Culvert	CONC	Television or Radio Tower	. 🚫	Proposed Wetland Boundaries	Standard Gauge RR Signal Milepost	
idge Wing Wall, Head Wall	CONC	Utility Power Line Connects to Traffic		Existing Endangered Animal Boundaries		MILEPOST 35
and End Wall)conc ww(Signal Lines Cut Into the Pavement		Existing Endangered Plant Boundaries	- Switch	SHITCH

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



DETAIL SHOWING METHOD OF WEDGING

USE IN CONJUCTION WITH TYPICAL SECTION NO. 1



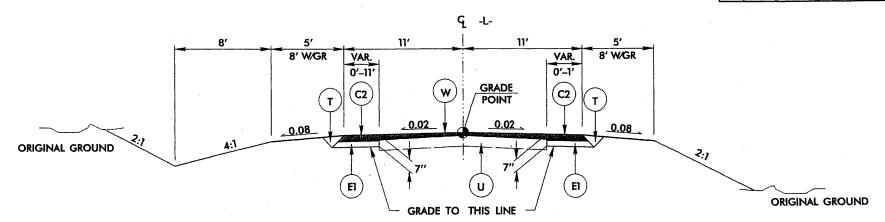
DETAIL No. 1

USE IN CONJUCTION WITH TYPICAL SECTION NO. 2 -L- STA 13+00.00 TO STA 15+75.00 RT

+MULKEY PG ROX 22127 RALDEN, N.C. 27426 [919] 851-1912 (619) 851-1912 (FAX)

PROJECT REFERENCE NO. SHEET NO. B-3665 RAW SHEET NO.

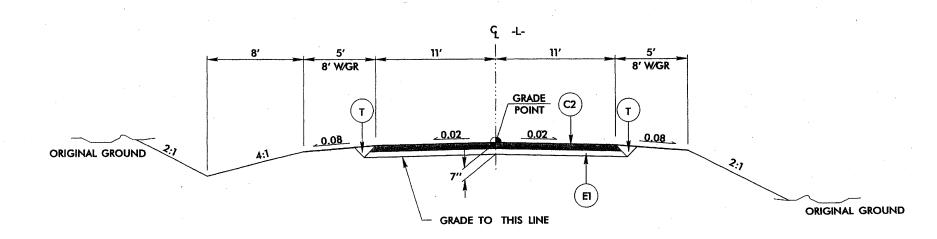
ROADWAY DESIGN



TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AT THE FOLLOWING LOCATIONS:

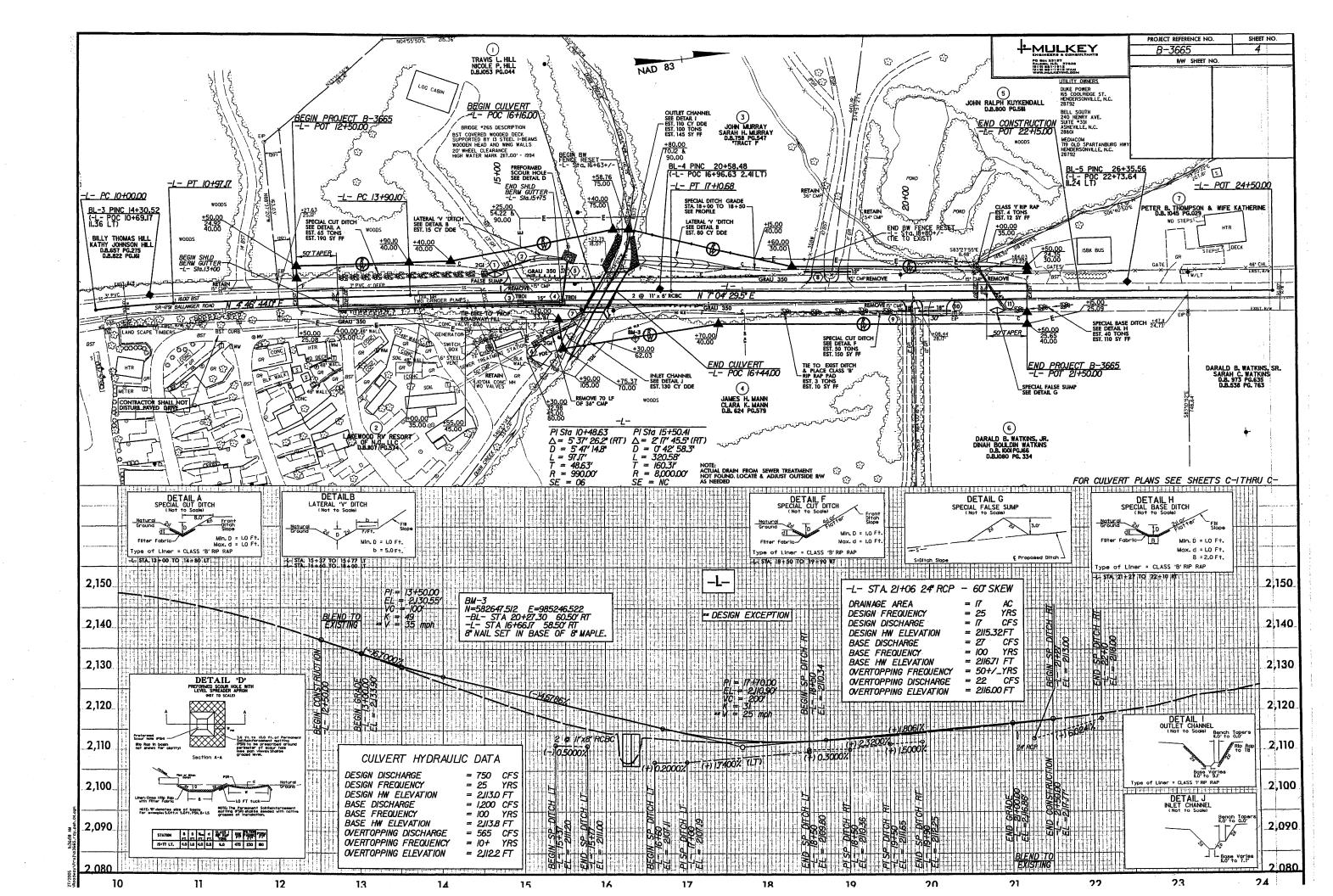
-L- STA 12+50.00 TO STA 13+75.00 -L- STA 17+50.00 TO STA 21+50.00



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AT THE FOLLOWING LOCATIONS:

-L- STA 13+75.00 TO STA 17+50.00



Note: Approximate quantities only. Unclassified Excavation,

paid for at the contract Lump Sum price for "Grading".

of ExistingPavement and Removal of Existing Pavement will be

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking

CROSS-SECTION SUMMARY

IN CUBIC YARDS

	<u> </u>	p ^{ra}
LOCATION	UNCLASSIFIED EXCAVATION	EMBANKMENT
	<u> </u>	
12+50	0	0
13+00	47	6
13+50	94	14
14+00	89	48
14+50	69	136
15+00	29	262
15+50	0	417
16+00	0	518
16+50	0	455
17+00	0	260
17+50	. 1	95
18+00	13	31
18+50	23	15
19+00	24	8
19 + 50	22	10
20+00	29	13
20+50	34	14
21+00	22	17
21+50	31	9
-		

OCATION	UNCLASSIFIED EXCAVATION	EMBANKMENT
······································		
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	UNCLASSIFIED	FLABANIZATA
LOCATION	EXCAVATION	EMBANKMENT
		-
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· · · · · · · · · · · · · · · · · · ·		
	 	
		
	 	
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