



Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

April 7, 2016

U.S. Army Corps of Engineers
Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permits 23 and 33**, for the Proposed Replacement of Bridge 221 on SR 1367 over Little Savannah Creek in Jackson County, Federal Aid Project No. BRZ-1367(3); TIP B-5410, Division 14

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 221 on SR 1367 over Little Savannah Creek in Jackson County with a single span, 57.5 feet core slab bridge on a new alignment 65 feet downstream. The existing bridge will be utilized as an onsite detour during construction. There will be 25 lf of permanent impacts to surface waters from roadway fill. There will be <0.01 acre of temporary impacts to surface waters resulting from this action. Mitigation will be acquired from the North Carolina Division of Mitigation Services (NCDMS) for the stream impacts for this project.

Please see enclosed copies of the Pre-Construction Notification (PCN), NCDMS acceptance letter, USFWS Concurrence Letter, Stormwater Management Plan, Permit Drawings, and Roadway Plansheets. A Categorical Exclusion (CE) was completed in June 2014 and distributed shortly thereafter. Additional copies are available upon request.

This project is located in a trout county; therefore comments from the NCWRC will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachment, NCDOT hereby requests NCWRC Review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

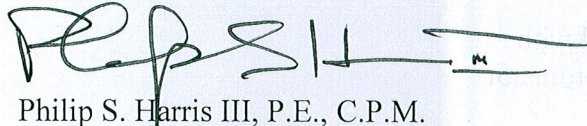
A letter from USFWS dated February 23, 2016, granted concurrence for the Appalachian elktoe with a call of May Affect, Not Likely to Adversely Affect.



This project calls for a letting date of June 23, 2016 and a review date of May 3, 2016; however, the let date may advance as additional funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please call Jeff Hemphill at (919) 707-6126.

Sincerely,



Philip S. Harris III, P.E., C.P.M.
Natural Environment Section Head

cc:
NCDOT Permit Application Standard Distribution List



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

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23,33 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input checked="" type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridge 221 over Little Savannah Creek on SR 1367 (Little Savannah Road)
2b. County:	Jackson
2c. Nearest municipality / town:	Webster
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-5410

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6126
3g. Fax no.:	(919) 212-5785
3h. Email address:	jhemphill@ncdot.gov

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

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.33244 (DD.DDDDDD) Longitude: - 83.23293 (-DD.DDDDDD)
1c. Property size:	2.4 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Little Savannah Creek
2b. Water Quality Classification of nearest receiving water:	C
2c. River basin:	Little Tennessee
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Forest communities, agriculture, minor residential development	
3b. List the total estimated acreage of all existing wetlands on the property: 0.1 acre – this wetland is located just next to the project footprint – no impacts	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 1,068 lf	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a three span 51-foot reinforced concrete and timber beam bridge with a single span, 57.5 foot precast concrete core slab bridge on a new alignment to the north with the existing bridge utilized as an onsite detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Other: NCDOT
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. 7/27/2011 w/ Lori Beckwith – she said she would issue a verification at permitting	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to “help file” instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input type="checkbox"/> Wetlands		<input checked="" type="checkbox"/> Streams - tributaries		<input type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts						
2h. Comments:						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Roadway fill	UT to Blake Branch	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ	1	25
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Dewatering	Blake Branch	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	2	28
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						25 Perm 28 Temp
3i. Comments:						

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				X Permanent X Temporary

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:
5i. Expected pond surface area (acres):	
5j. Size of pond watershed (acres):	
5k. Method of construction:	

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			<input type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. See Stormwater Management Plan. The new bridge will span the creek with the existing bents removed. No deck drains will be required on the proposed bridge. The existing bridge will be utilized as an onsite detour.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Best Management Practices for Surface Waters will be used during all phases of construction.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	25 linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input checked="" type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	0 square feet	
4e. Riparian wetland mitigation requested:		
4f. Non-riparian wetland mitigation requested:	0 acres	
4g. Coastal (tidal) wetland mitigation requested:	0 acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?

Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

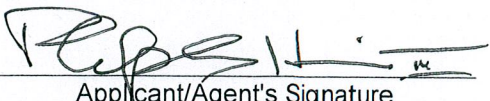
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1				
Zone 2				
6f. Total buffer mitigation required:				

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

6h. Comments:

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

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

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? N.C. Natural Heritage Program database; USFWS-website; biological surveys for protected species listed for Jackson County. Habitat for swamp pink exists in a wetland adjacent to the project footprint but a survey conducted in the study area in 2014 resulted in no specimens being found. A Section 7 Survey Memo for the northern long-eared bat and Indiana bat with calls of May Affect, Not Likely to Adversely Affect No Habitat/No Effect, respectively. The survey Memo declared that NCDOT was in Section 7 compliance for the NLEB with this information included with a Concurrence request sent February 18, 2016 to USFWS. A letter from USFWS dated February 23, 2016, granted concurrence for Appalachian elktoe with a call of May Affect, Not Likely to Adversely Affect. Email correspondence with Andrew Henderson of USFWS on April 1, 2016, confirmed that no concurrence was required for NLEB and Indiana bat for this project.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
Phillip S. Harris Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	4/07/2016 Date



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

April 6, 2016

Mr. Philip S. Harris, III, P.E., PLS
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-5410, Replace Bridge 221 on SR 1367 over Little Savannah Creek, Jackson County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on April 1, 2016, the impacts are located in CU 06010203 of the Little Tennessee River basin in the Southern Mountains (SM) Eco-Region, and are as follows:

Little Tennessee 06010203 SM	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	25.0	0	0	0	0	0	0	0

*Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This impact and associated mitigation need were under projected by the NCDOT in the 2016 impact data. DMS will commit to implement sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill
Credit Management Supervisor

cc: Ms. Lori Beckwith, USACE – Asheville Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: B-5410





United States Department of the Interior

FISH AND WILDLIFE SERVICE

Asheville Field Office
160 Zillicoa Street
Asheville, North Carolina 28801

February 23, 2016

Ms. Carla Dagnino
NC Department of Transportation
Natural Environment Section
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Ms. Dagnino:

Subject: Endangered Species Concurrence for Proposed Replacement of Bridge Number 221 on State Road 1367 (Little Savannah Road) over Little Savannah Creek, Jackson County, North Carolina, TIP No. B-5410

On February 19, 2015, we received your letter (via email) requesting section 7 concurrence on effects the subject bridge replacement may have on the federally endangered Appalachian elktoe (*Alasmidonta raveneliana*). The following comments are provided in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531-1543) (Act).

We have reviewed the information provided in your concurrence request letter and the North Carolina Department of Transportation's freshwater mussel survey report, dated October 29, 2013, as well as the Section 7 survey memo for the Northern long-eared bat and Indiana bat, dated February 18, 2016. We concur with your biological conclusion that the proposed construction may affect, but is not likely to adversely affect the Appalachian elktoe.

Therefore, we believe the requirements under section 7(c) of the Act are fulfilled for the Appalachian elktoe. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed or critical habitat is determined that may be affected by the identified action.

If we can be of assistance or if you have any questions about these comments, please contact Mr. Andrew Henderson of our staff at 828/258-3939, Ext. 227. In any future correspondence concerning this project, please reference our Log Number 4-2-13-089.

Sincerely,

Janet Mizzi

Janet A. Mizzi
Field Supervisor



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 2.01; Released December 2014)

WBS Element: 46125.1.1 TIP No.: B-5410 County(ies): Jackson Page 1 of 1

General Project Information

WBS Element:	46125.1.1	TIP Number:	B-5410	Project Type:	Bridge Replacement	Date:	8/21/2015
NCDOT Contact:	Stephen Morgan			Contractor / Designer:			
Address:	NCDOT Hydraulics Unit 1590 Mail Service Center Raleigh, NC 27699			Address:			
	Phone:	919-707-6755			Phone:		
	Email:	smorgan@ncdot.gov			Email:		
City/Town:				County(ies):	Jackson		
River Basin(s):	Little Tennessee	CAMA County?	No				
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	660 ft.	Surrounding Land Use:	Rural
	Proposed Project		Existing Site
Project Built-Up Area (ac.)	0.5 ac.	0.3 ac.	
Typical Cross Section Description:	Two lane section- 11' lanes with 4' paved shoulders.		Two lane- 9' lanes.
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 1645	Year: 2036	Existing: 1,168 Year: 2016
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>Replace Bridge number 221 on SR 1367 (Little Savannah Road) over 65 FT Little Savannah Creek. The new bridge will be located downstream on new alignment. A 60" metal pipe will be replaced with a concrete pipe at the project begin station. The new bridge will be a single span structure with no direct discharge to Little Savannah Creek. Roadway stormwater is dispersed through natural stream buffer before entering the creek. High ground areas subject to erosive forces will be armored with the minimum amount of rip rap required for stabilization. Impacts to surface waters will be temporary for construction only. The existing roadway will be removed and regraded. erosion and sedimentation will be controlled through the appropriate measures during construction. Any disturbed areas will be properly vegetated post-construction.</p>		

Waterbody Information

Surface Water Body (1):		NCDWR Stream Index No.:	2-79-36-14
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Threatened/Endangered Species?	Comments:		
NRTR Stream ID:			Buffer Rules in Effect:
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	Dissipator Pads Provided in Buffer?
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)	(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)
(If yes, provide justification in the General Project Narrative)			

09/08/99

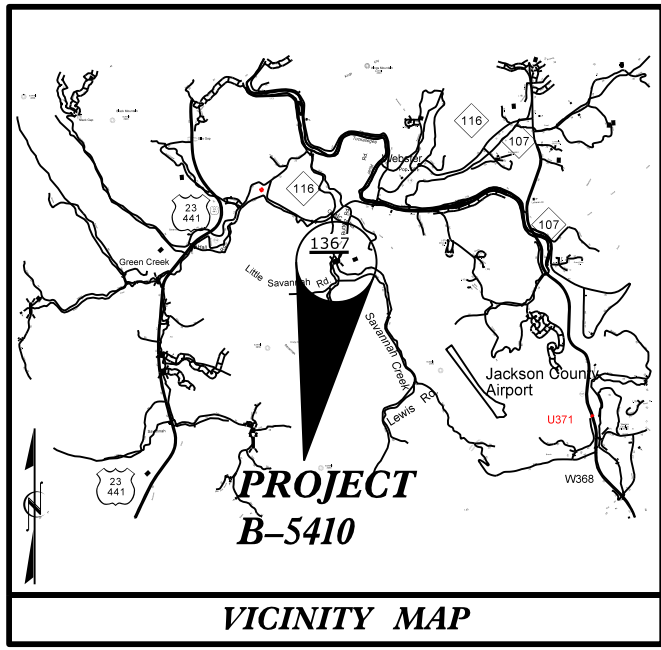
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PERMIT DRAWING
SHEET 1 OF 5**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5410	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
46125.1.1	BRZ-1367(3)	PE	
46125.2.1	BRZ-1367(3)	R/W, UTIL.	

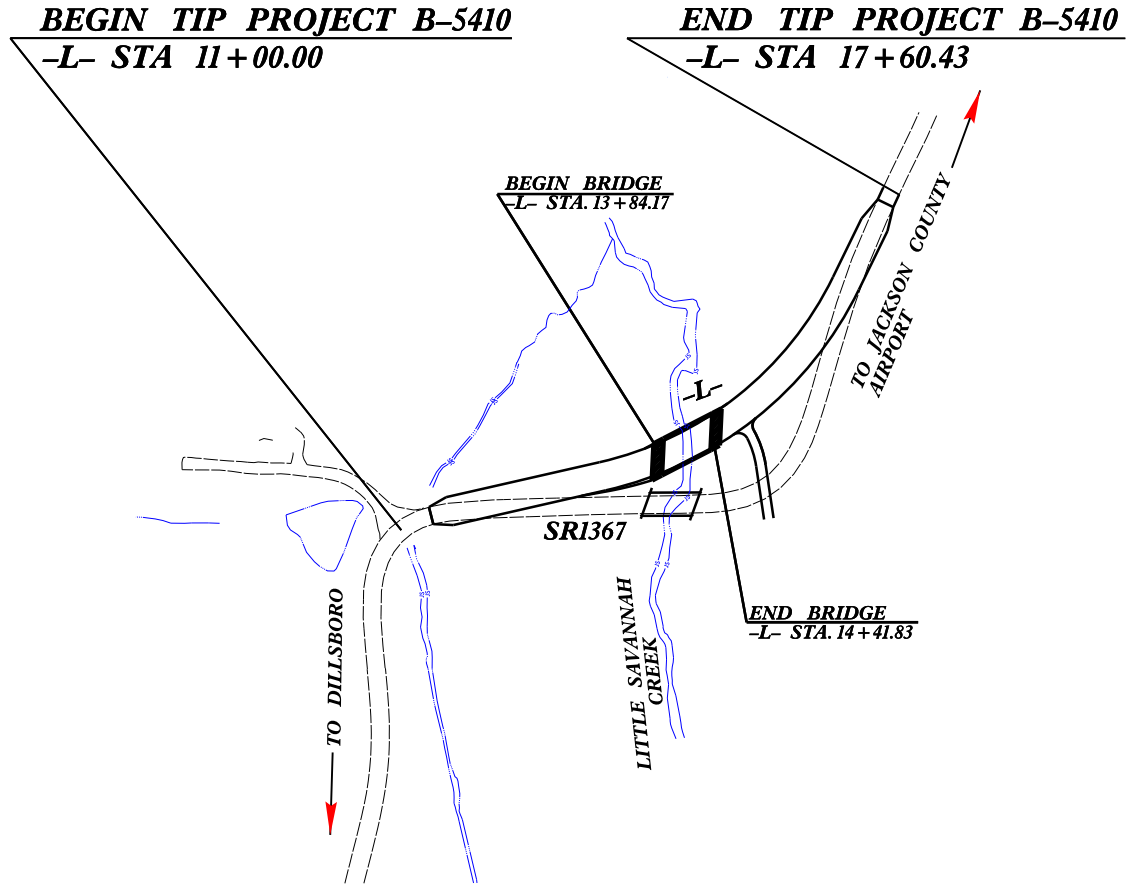
TIP PROJECT: B-5410



**LOCATION: BRIDGE 221 OVER LITTLE SAVANNAH CREEK
ON SR 1367.**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

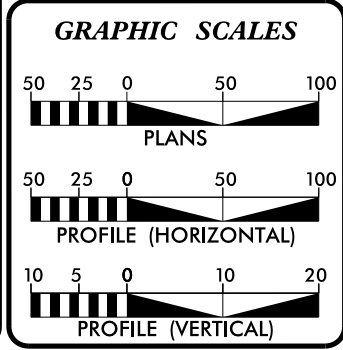
WETLAND AND SURFACE WATER IMPACTS PERMIT



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II
** DESIGN EXCEPTION REQUIRED FOR HORIZONTAL STOPPING SIGHT DISTANCE

**PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION**

CONTRACT:



DESIGN DATA

ADT 2016 =	1,168
ADT 2036 =	1,645
K =	10 %
D =	65 %
T =	11 % *
V =	35 MPH **
* TTST = 1 DUAL 10	
FUNC CLASS = LOCAL	
SUB REGIONAL TIER	

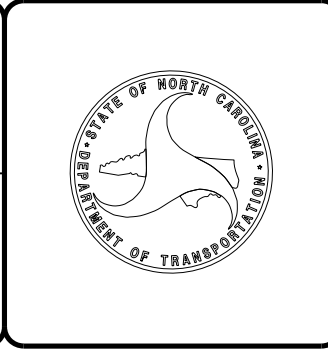
PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5410	=	0.114 Miles
LENGTH STRUCTURE TIP PROJECT B-5410	=	0.011 Miles
TOTAL LENGTH TIP PROJECT B-5410	=	0.125 Miles.

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

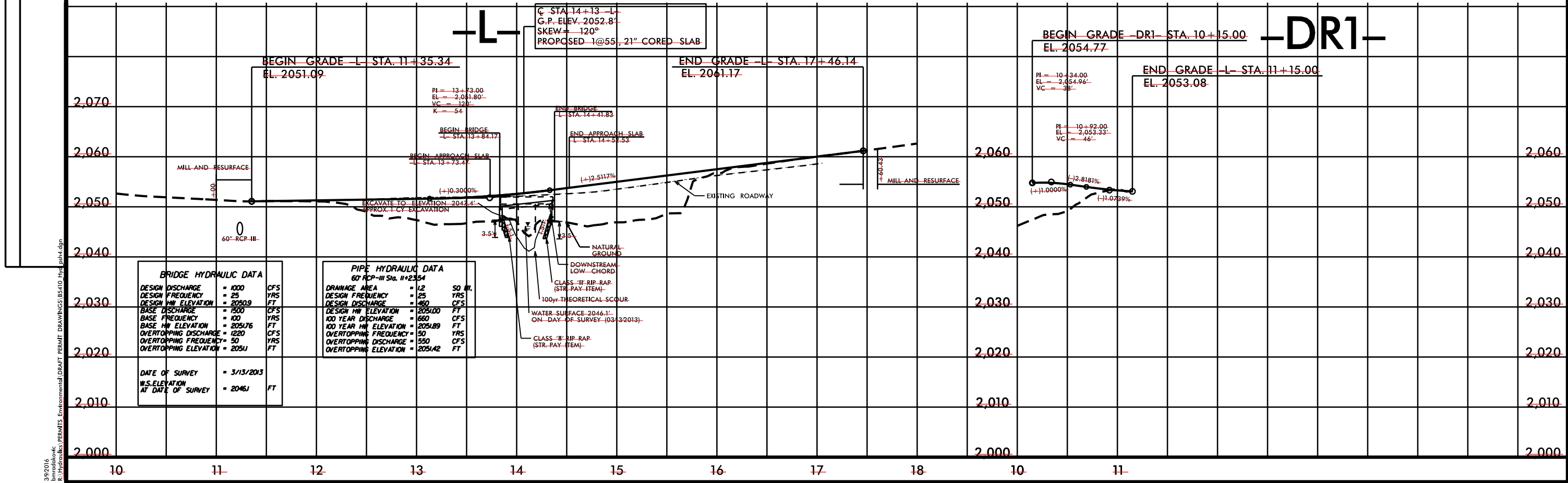
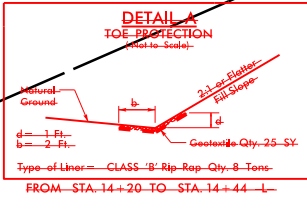
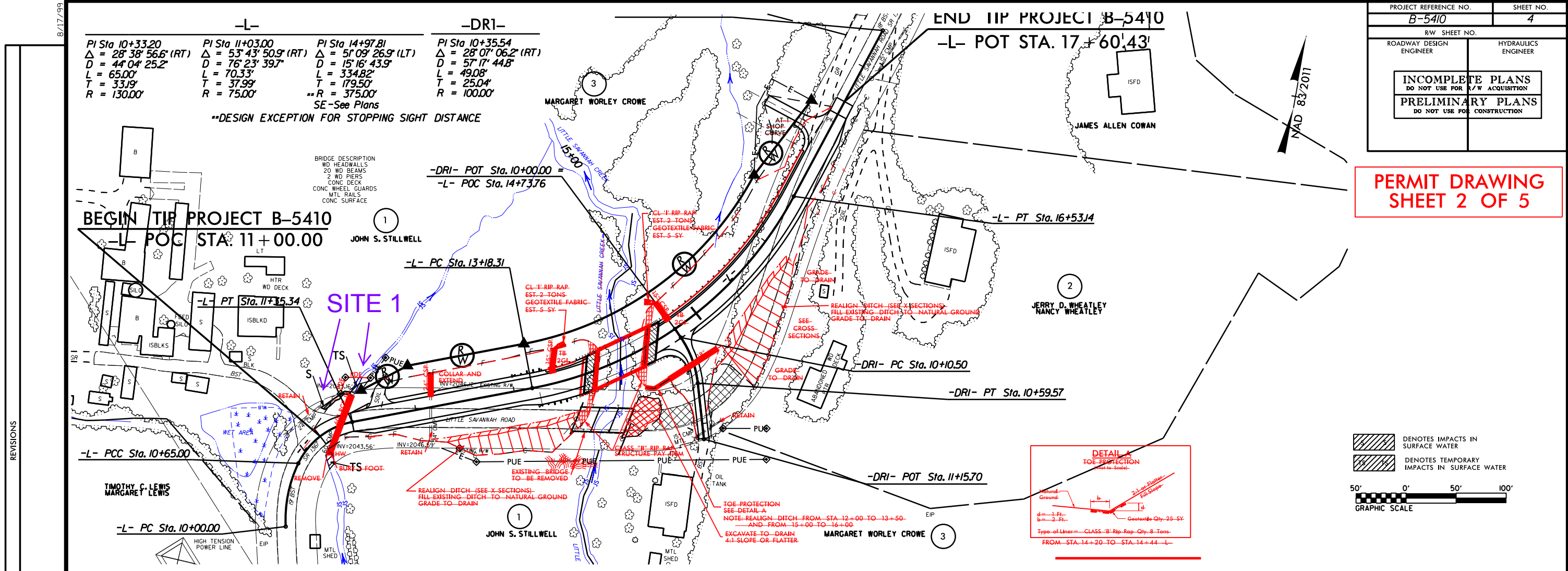
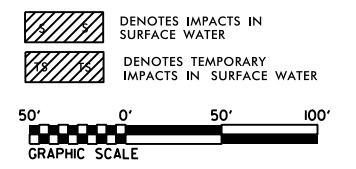
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	KEVIN E. MOORE, PE PROJECT ENGINEER
JULY 23, 2015	
LETTING DATE:	MARK HUSSEY PROJECT DESIGN ENGINEER
JULY 19, 2016	

HYDRAULICS ENGINEER	SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER	SIGNATURE: _____ P.E.



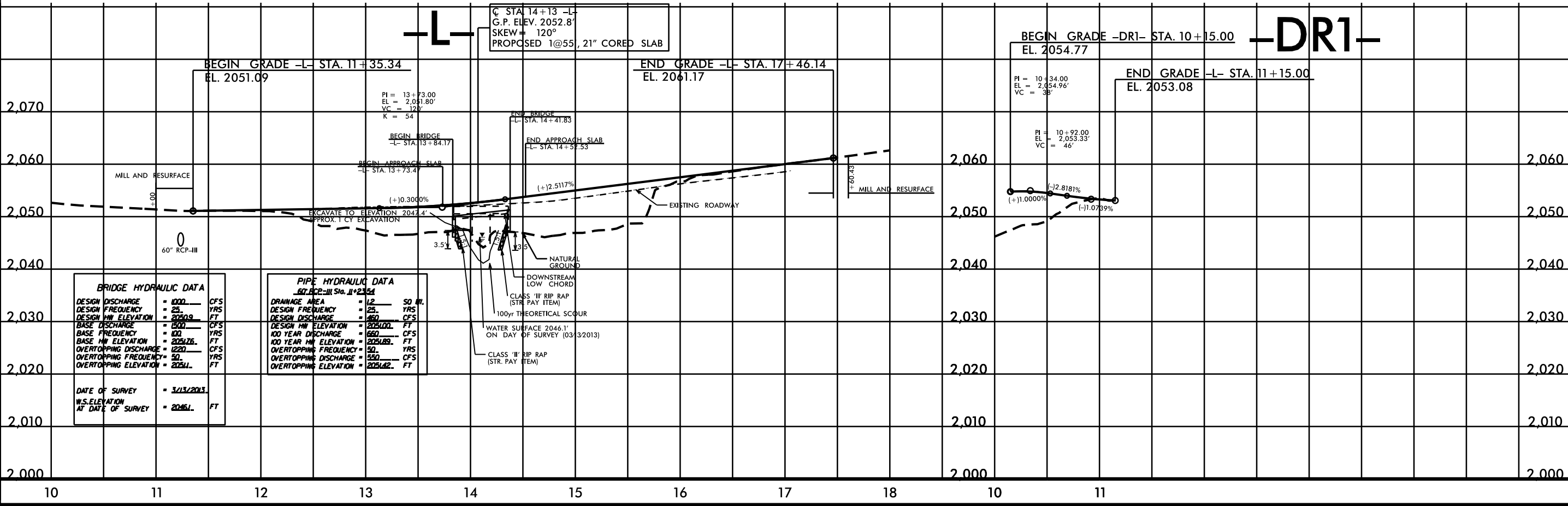
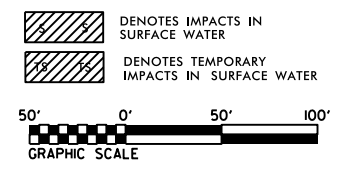
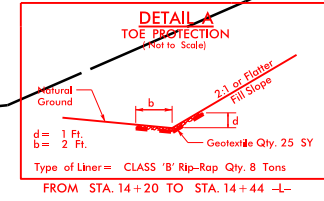
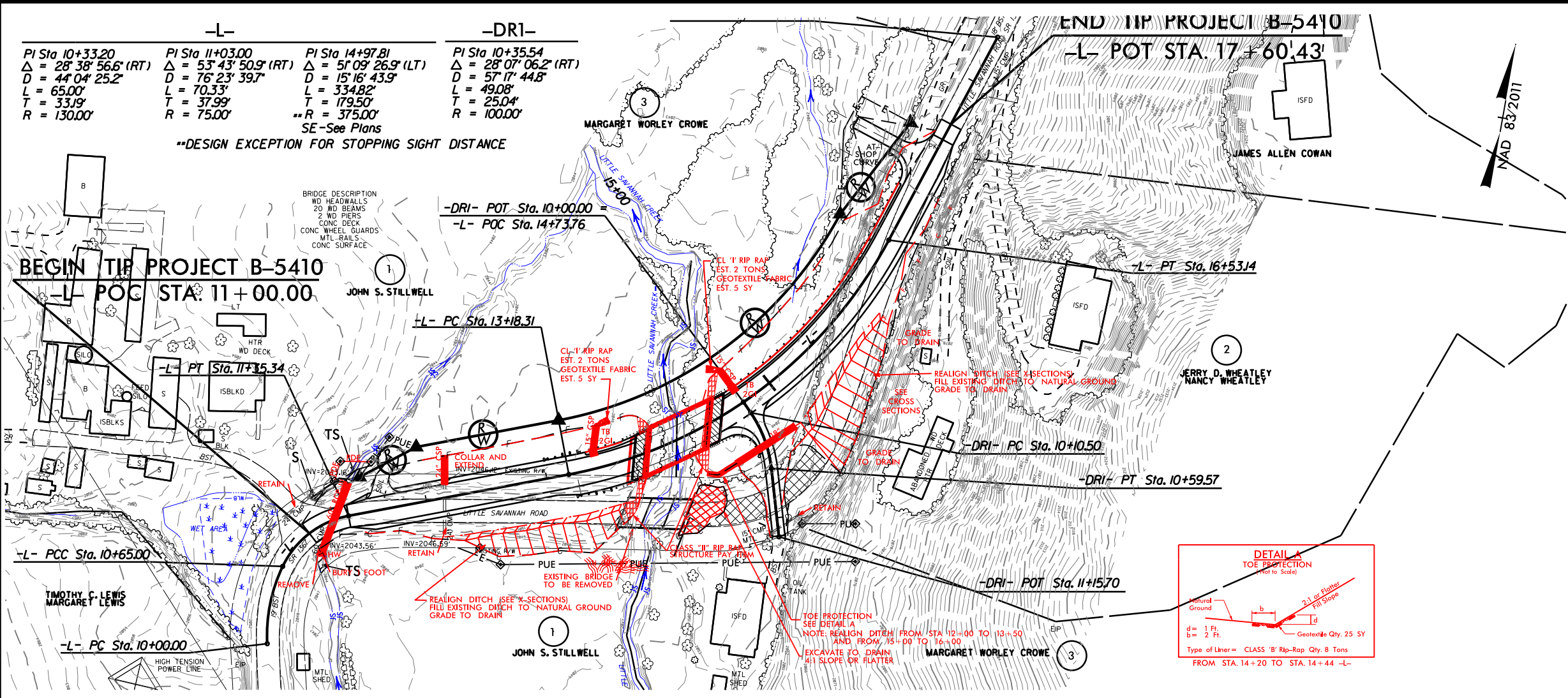
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\$\$\$\$\$DCN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

PERMIT DRAWING SHEET 2 OF 5



8/17/09
 REVISIONS
 3/9/2016
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PERMIT DRAWING SHEET 2 OF 5



BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 1000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 2050.9 FT
BASE DISCHARGE	= 1500 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2052.6 FT
OVERTOPPING DISCHARGE	= 1220 CFS
OVERTOPPING FREQUENCY	= 50 YRS
OVERTOPPING ELEVATION	= 2054.1 FT

PIPE HYDRAULIC DATA	
DESIGN DISCHARGE	= 1000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 2050.9 FT
BASE DISCHARGE	= 1500 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2052.6 FT
OVERTOPPING DISCHARGE	= 1220 CFS
OVERTOPPING FREQUENCY	= 50 YRS
OVERTOPPING ELEVATION	= 2054.1 FT

DATE OF SURVEY = 3/13/2013
 W.S. ELEVATION AT DATE OF SURVEY = 2046.1 FT

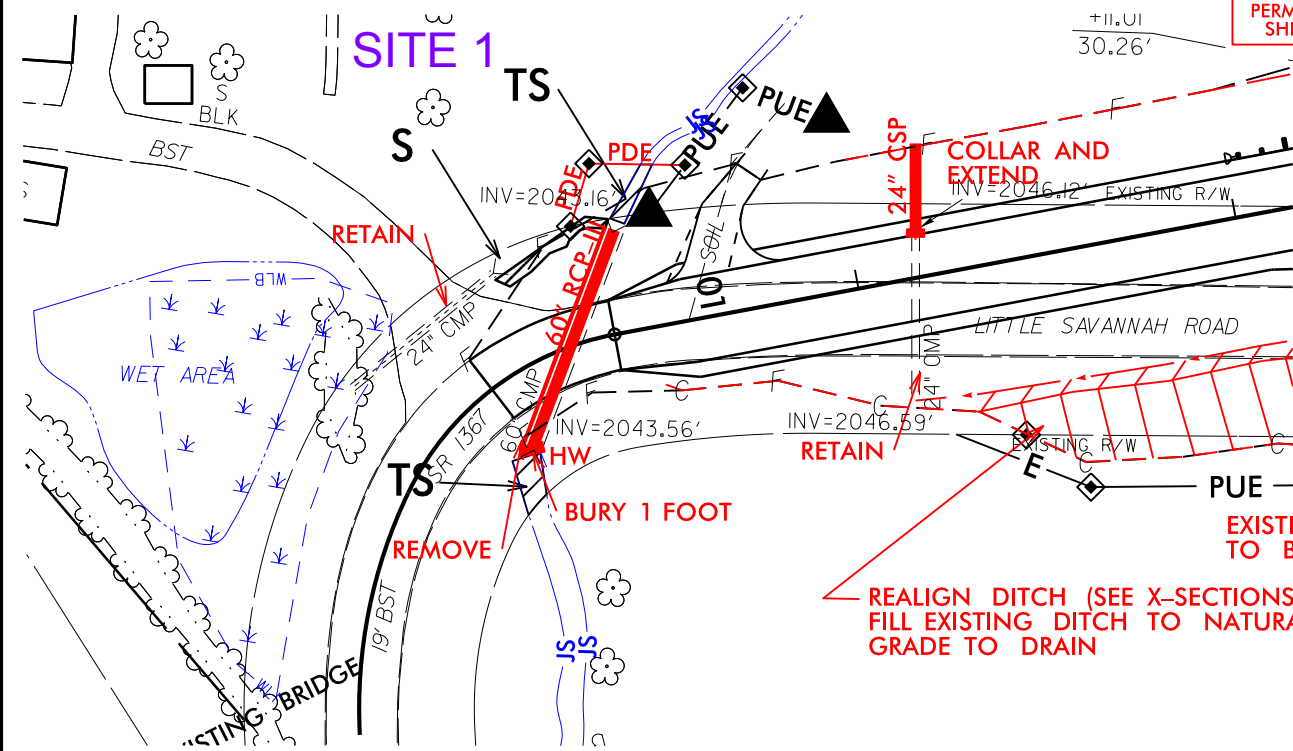
REVISIONS

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IMPACT ENLARGEMENT

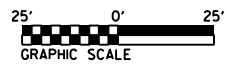
INCHES REFERENCE NO.	SHEET NO.
B-540	4
AWY SHEET NO.	
ROADWAY DESIGN ENGINEER	REGISTERED ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

PERMIT DRAWING SHEET 4 OF 5



NAD 83/2011

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
SITE 1	11+25 -L-	60" RCP						< 0.01			28	
	11+13 -L-	Fill Slope						< 0.01		25		
TOTALS*:								< 0.01	< 0.01	25	28	0

*Rounded totals are sum of actual impacts

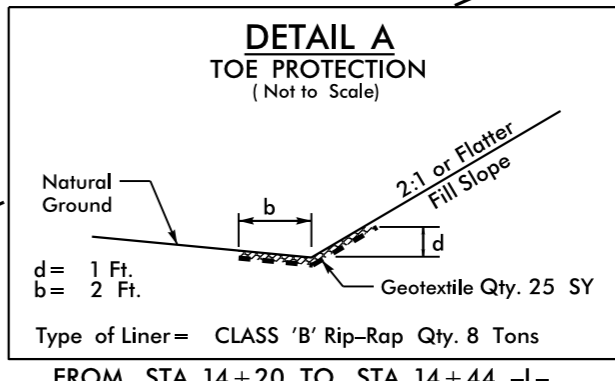
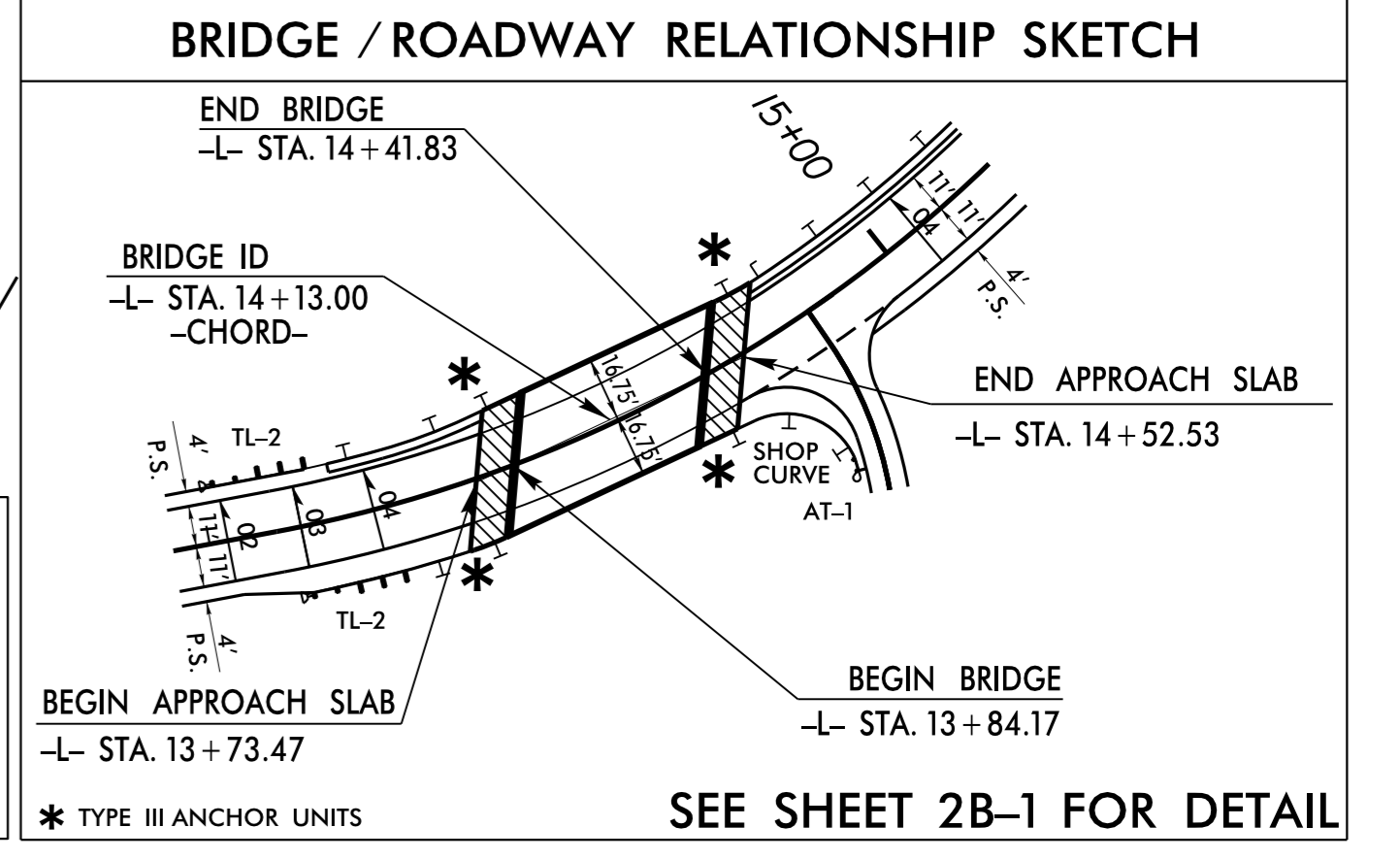
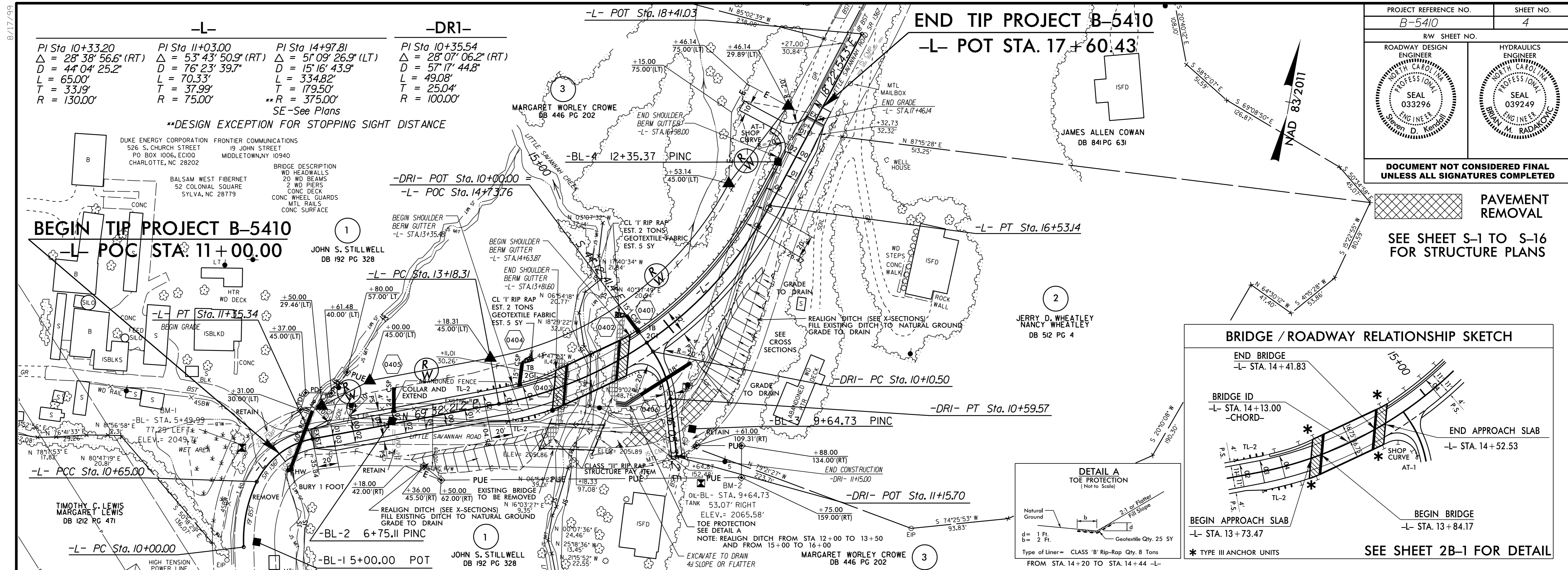
NOTES:
EXISTING PIERS WILL BE REMOVED.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 8/19/2015
 JACKSON COUNTY
 B-5410
 WBS 46125.1.1
 SHEET 5 OF 5

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

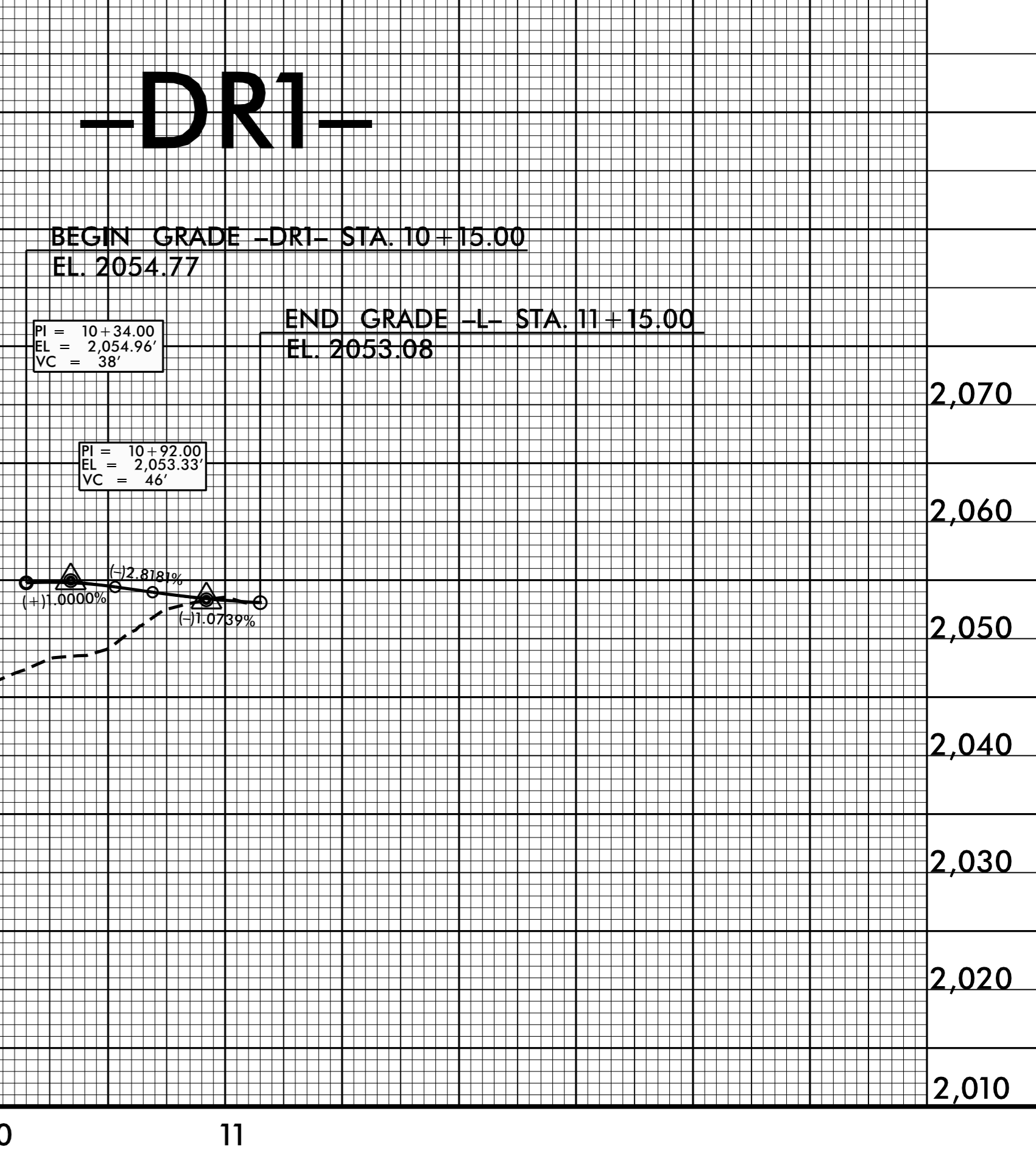
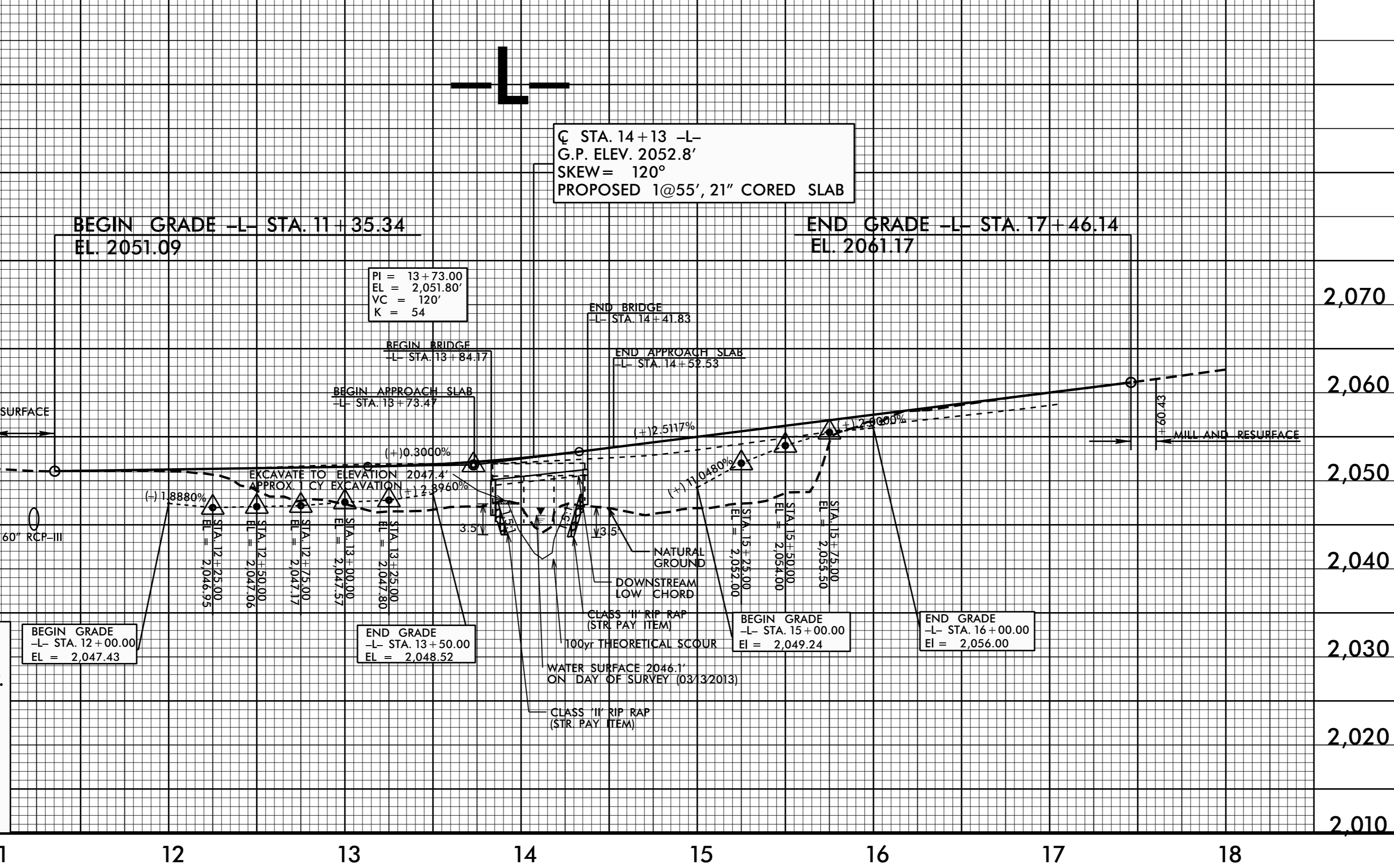
PAVEMENT REMOVAL

SEE SHEET S-1 TO S-16
FOR STRUCTURE PLANS



BRIDGE HYDRAULIC DATA	
DESIGN DISCHARGE	= 1000 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 2050.9 FT
BASE DISCHARGE	= 1500 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2051.76 FT
OVERTOPPING DISCHARGE	= 1220 CFS
OVERTOPPING FREQUENCY	= 50 YRS
OVERTOPPING ELEVATION	= 2051J FT
DATE OF SURVEY	= 3/13/2013
W.S. ELEVATION AT DATE OF SURVEY	= 2046J FT

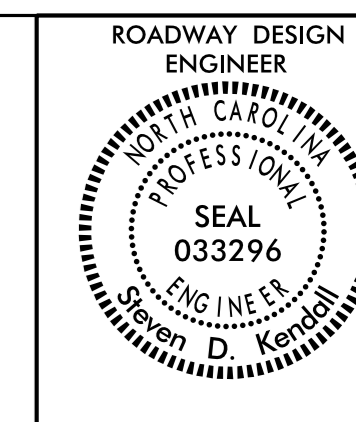
PIPE HYDRAULIC DATA	
60" RCP-III Sta. 11+23.54	
DRAINAGE AREA	= 12 SQ MI.
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 460 CFS
DESIGN HW ELEVATION	= 2051.00 FT
100 YEAR DISCHARGE	= 660 CFS
100 YEAR HW ELEVATION	= 2051.89 FT
OVERTOPPING FREQUENCY	= 50 YRS
OVERTOPPING DISCHARGE	= 550 CFS
OVERTOPPING ELEVATION	= 2051.42 FT



8/17/99
10-MAR-2016 09:14 B5410-rdy_psh-4.dgn

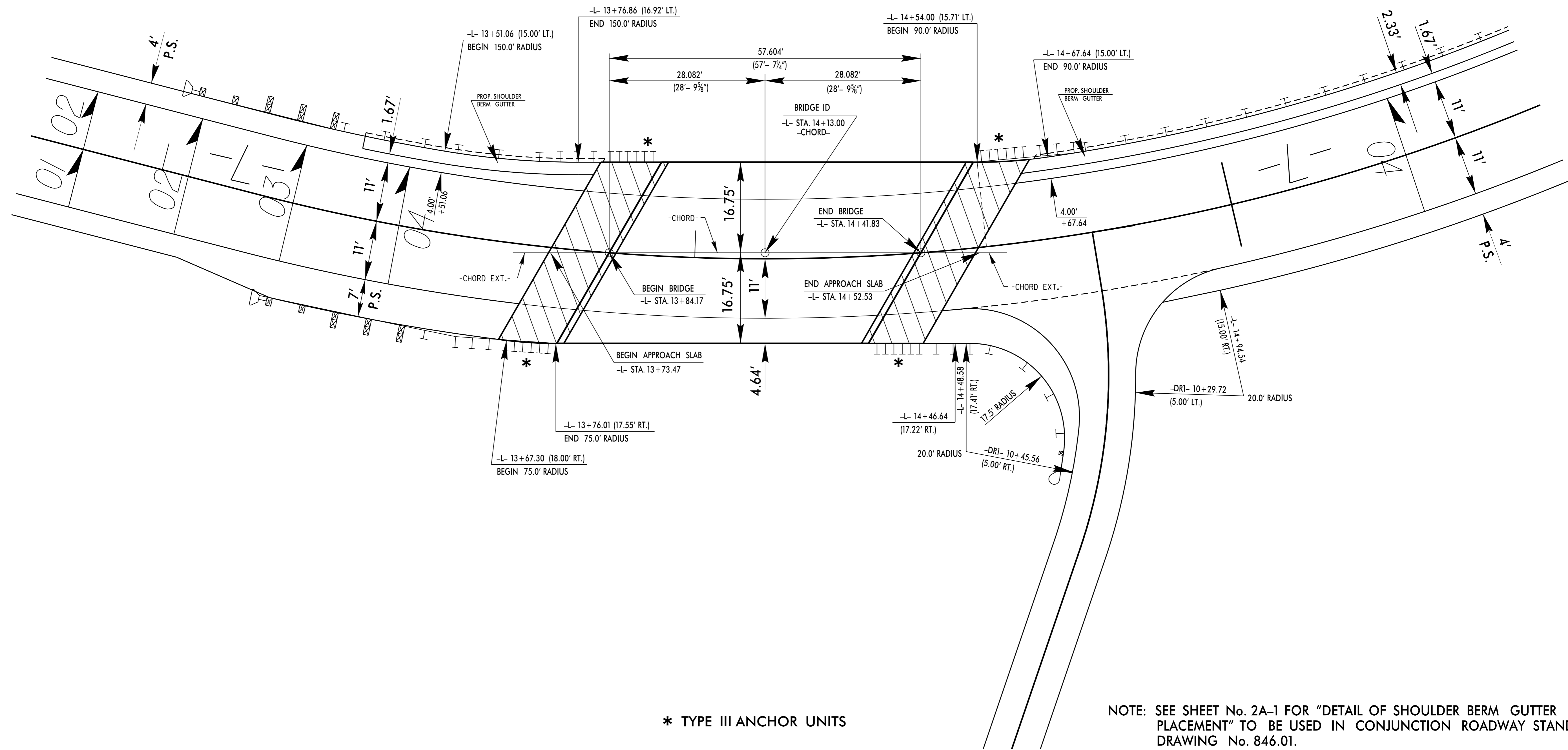
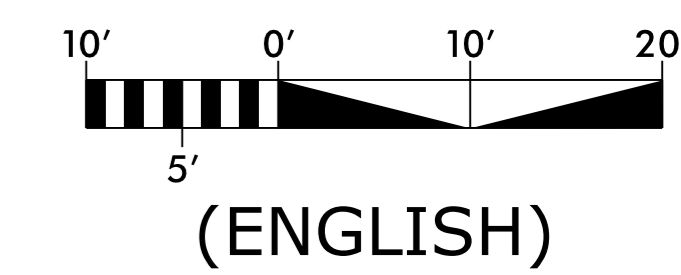
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
B-5410	2B-1
R/W SHEET NO.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



BRIDGE /ROADWAY INTERSECTION DETAIL


15+00

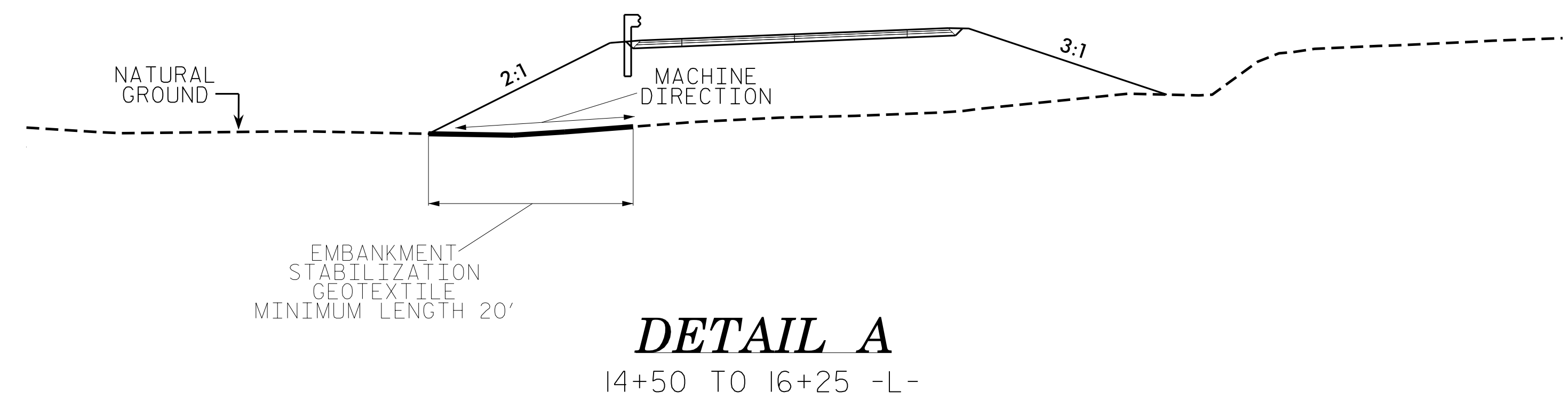


* TYPE III ANCHOR UNITS

NOTE: SEE SHEET No. 2A-1 FOR "DETAIL OF SHOULDER BERM GUTTER PLACEMENT" TO BE USED IN CONJUNCTION ROADWAY STANDARD DRAWING No. 846.01.

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PROJECT REFERENCE NO. 46125.1.1(B-5410)	SHEET NO. 2G-1
GEOTECHNICAL ENGINEER  Michael H. Stephens 3/14/2016	ENGINEER
SIGNATURE	DATE

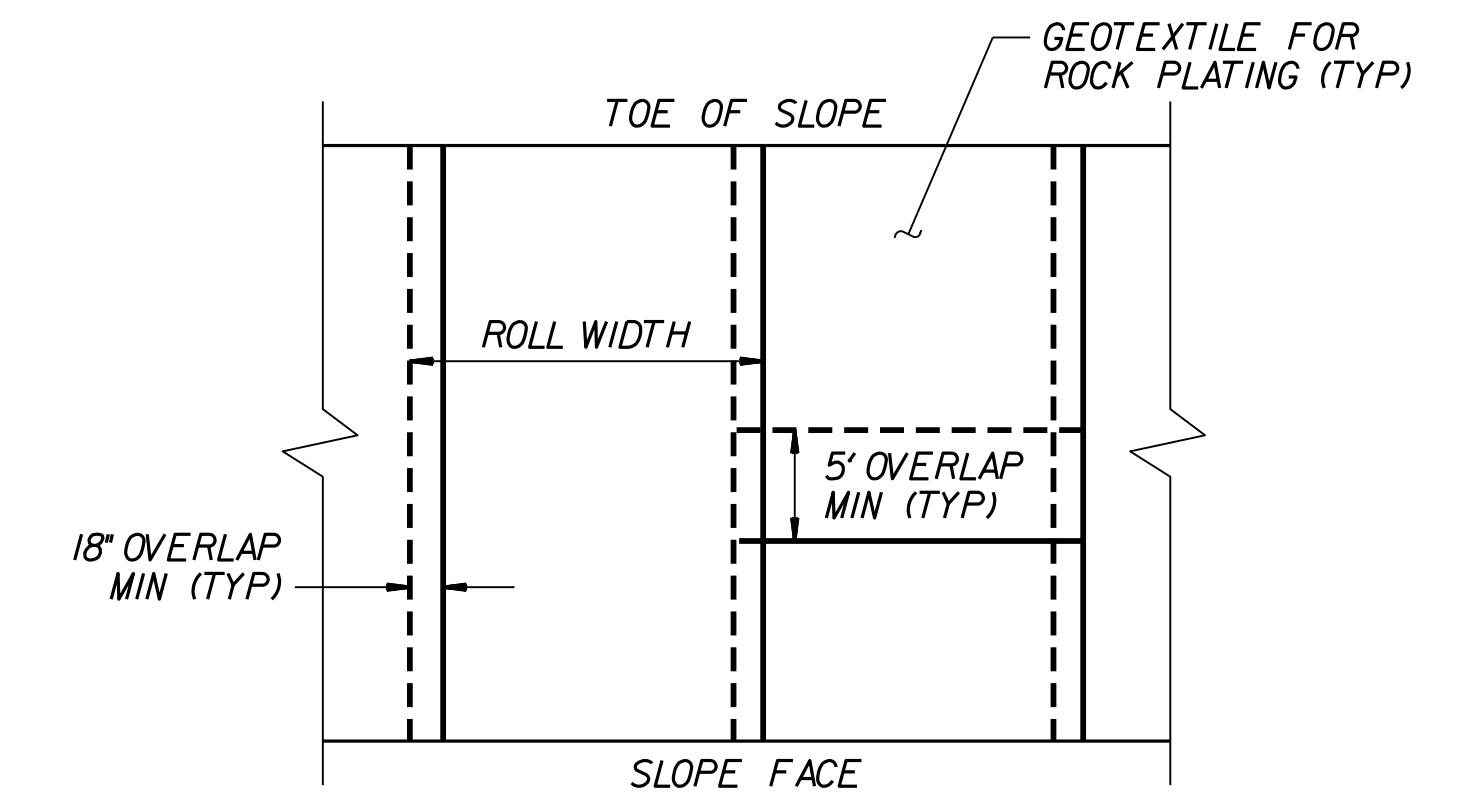


DETAIL A
14+50 TO 16+25 -L-

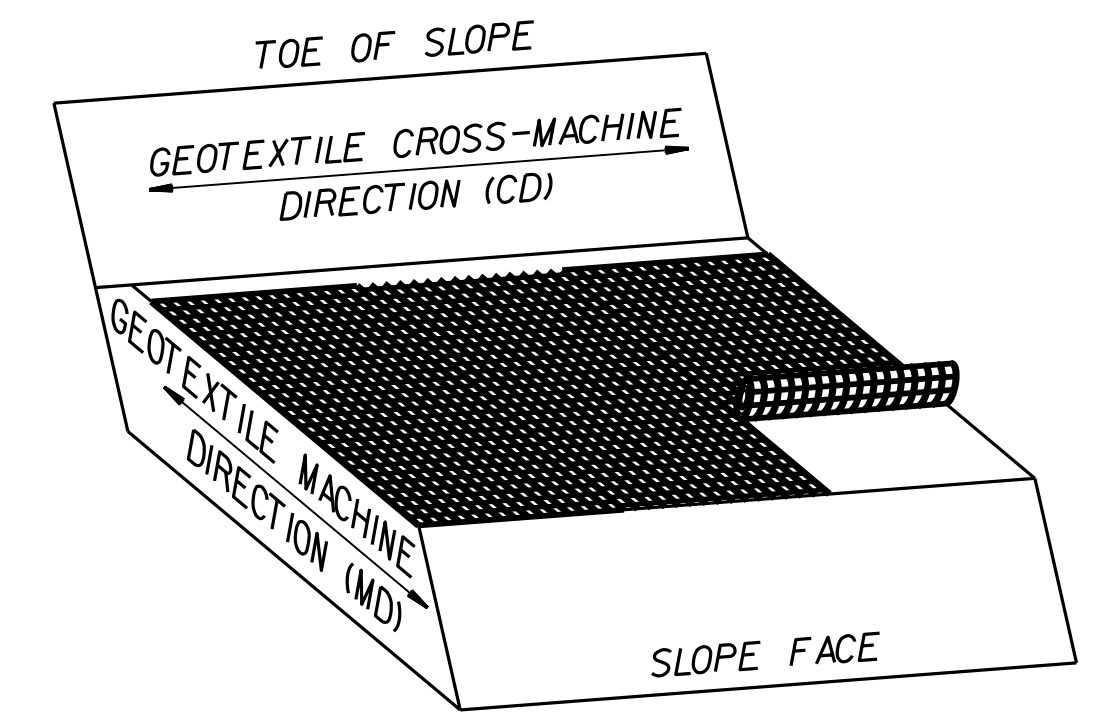
NOTES

1. FOR ROADWAY EMBANKMENTS WITH LESS THAN A 2.5:1 SLOPE.
2. PLACE ALL GEOTEXTILE WITH THE MACHINE DIRECTION PERPENDICULAR TO THE SLOPE FACE.
3. GEOTEXTILE FOR EMBANKMENT STABILIZATION SHALL BE PLACED FROM TOE OF PROPOSED SLOPE EXTENDING A MINIMUM OF 20 FT ALONG THE TRANSITION FORM EXISTING GROUND AND NEW EMBANKMENT FILL

GEOTEXTILE FOR EMBANKMENT STABILIZATION (SQUARE YARDS)	
GEOTEXTILE	1,100 SYDS



GEOTEXTILE OVERLAP DETAIL
(PLAN VIEW)



GEOTEXTILE PLACEMENT DETAIL
(PLAN VIEW)

PREPARED BY: MHS	DATE: 12/17/14
REVIEWED BY: SCC	DATE: 12/17/14



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**GEOTECHNICAL
ENGINEERING UNIT**

EMBANKMENT STABILIZATION DETAIL

REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		