

ROY COOPER
Governor

MICHAEL L. HOLDER
Acting Secretary

January 4, 2017

U.S. Army Corps of Engineers
Regulatory Field Office
3331 Heritage Trail Drive, Suite 105
Wake Forest, NC 27587

ATTN: Mr. John Thomas
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permits 13 and 33**, for the Proposed Replacement of Bridge 42 on SR 1485 over Muddy Creek in Davidson County, TIP No. B-5165, Federal Aid Project No. BRSTP-1485(2); WBS# 42341.1.1.

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 42 on SR 1485 over Muddy Creek in Davidson County with a new two span, 150 feet box beam bridge on a new alignment upstream of the existing bridge. The existing bridge will be utilized as an onsite detour during construction. There will be 118 lf of permanent impacts to surface waters from bank stabilization. There will be 0.16 acre (117 lf) of temporary impacts to surface waters resulting from causeways utilized during different stages of construction. No mitigation is proposed for the stream impacts from this project.

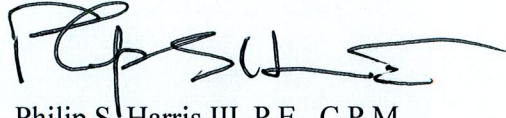
Please see enclosed copies of the Pre-Construction Notification (PCN), Preliminary Jurisdictional Determination (PJD) form, Stormwater Management Plan, Permit Drawings, and Roadway Plansheets. A Programmatic Categorical Exclusion (PCE) was completed in January 2016 and distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of June 22, 2017 and a review date of May 2, 2017; 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,

A handwritten signature in black ink, appearing to read 'P. S. Harris III', with a long horizontal flourish extending to the right.

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: 13,33 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 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 type="checkbox"/> Yes	<input checked="" 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 42 over Muddy Creek on SR 1485 (Hampton Road)
2b. County:	Davidson
2c. Nearest municipality / town:	Muddy Creek
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-5165

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: 35.94035 (DD.DDDDDD) Longitude: - 80.35804 (-DD.DDDDDD)
1c. Property size:	1.3 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Muddy Creek
2b. Water Quality Classification of nearest receiving water:	C
2c. River basin:	Yadkin
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: Agriculture, minor residential and a sand dredging operation is located north of the bridge..	
3b. List the total estimated acreage of all existing wetlands on the property: 0 acre	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 118 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 120.5-foot reinforced concrete deck & steel I beam bridge with a two span, 150-foot box beam bridge upstream of the existing alignment and a onsite detour bridge that will be constructed to the south of the existing bridge. 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.	
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	Bank Stabilization	Muddy Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ		118
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Causeways	Muddy Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ		117
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Construction	Muddy Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ		17
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ		
Site <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input checked="" type="checkbox"/> DWQ		
Site <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						118 If Perm 134 temp
. 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				
O1 <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				Permanent 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. Cross pipe outlets to preformed scour hole which dissipates energy and promotes sheet flow. New bridge eliminates one interior bent in water.		
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input 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:	0 linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input 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.

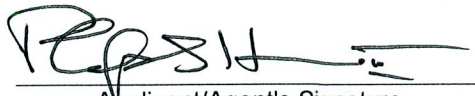
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1				
Zone 2				
6f. Total buffer mitigation required:				

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 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 NA
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No NA
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No NA

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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh <input 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 Davidson County. Suitable foraging habitat for bald eagles exists within one mile of the project study area along the Yadkin River. A survey for nest trees was conducted October 15, 2015 with no nests observed. Habitat for Schweinitz's sunflower exists along the maintained disturbed roadsides of the project but an October 15, 2015 survey by NCDOT personnel found no plants. A bat survey report dated June 14, 2016 determined NCDOT is in compliance with the 4(d) rules 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 III, P.E., C.P.M. Applicant/Agent's Printed Name	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	1/5/2017 Date

**ATTACHMENT A
PRELIMINARY JURISDICTIONAL DETERMINATION FORM**

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): _____
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:

- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: _____ City: _____

Center coordinates of site (lat/long in degree decimal format):

Lat. _____°N; Long. _____°W.
(XX.XXXXX) (-XX.XXXXX)

Universal Transverse Mercator: Z: _____ E: _____ N: _____

Name of nearest waterbody: _____

Identify (estimate) amount of waters in the review area:

Non-wetland waters:

_____ linear feet: _____ width (ft) and/or _____ acres.

Cowardin Class: _____

Stream Flow: _____

Wetlands: _____ acres.

Cowardin Class: _____

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: _____

Non-Tidal: _____

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: _____

Field Determination. Date(s): _____

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: _____

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps: _____

Corps navigable waters' study: _____

U.S. Geological Survey Hydrologic Atlas: _____

USGS NHD data

USGS 8 and 12 digit HUC maps

U.S. Geological Survey map(s). Cite scale & quad name: _____

USDA Natural Resources Conservation Service Soil Survey.
Citation: _____

National wetlands inventory map(s). Cite name: _____

State/Local wetland inventory map(s): _____

FEMA/FIRM maps: _____

100-year Floodplain Elevation is: _____
(National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): _____ or

Other (Name & Date): _____

Previous determination(s). File no. and date of response letter: _____

Other information (please specify): _____

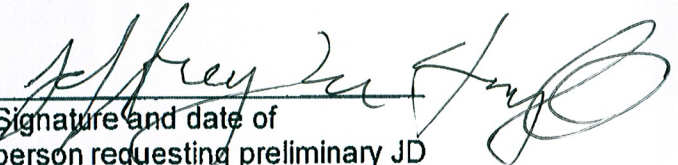
1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory Project Manager
(REQUIRED)



Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR NCDOT PROJECTS



(Version 2.01: Released December 2014)

WBS Element: 42341.1.1 TIP No.: B-5165 County(ies): Davidson Page 1 of 2

General Project Information

WBS Element:	42341.1.1	TIP Number:	B-5165	Project Type:	Bridge Replacement	Date:	6/13/2016
NCDOT Contact:	William H. Elam Jr.(Bill), PE		Contractor / Designer:	Craig J. Lee, PE			
Address:	1020 Birch Ridge Dr. Raleigh, N.C. 27610		Address:	1020 Birch Ridge Dr. Raleigh, N.C. 27610			
	Phone:	919-707-6718		Phone:	919-707-6708		
	Email:	belam@ncdot.gov		Email:	cjlee@ncdot.gov		
City/Town:	Clemmons		County(ies):	Davidson			
River Basin(s):	Yadkin-Pee Dee		CAMA County?	No			
Wetlands within Project Limits?	No						

Project Description

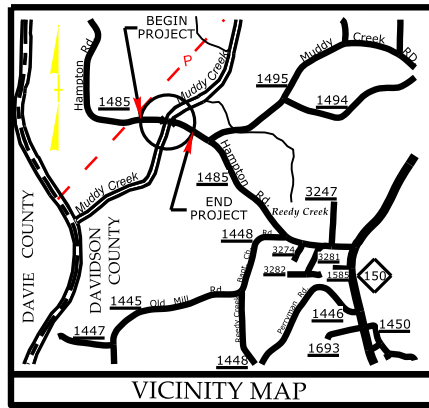
Project Length (lin. miles or feet):	1,800'	Surrounding Land Use:	Fields/Woods					
	Proposed Project		Existing Site					
Project Built-Upon Area (ac.)	1.3	ac.	1.0	ac.				
Typical Cross Section Description:	12' Travel Lanes, 4' Paved Shoulder, 2' Grass Shoulders. 6:1-2:1 Side Slopes			11' Travel Lanes, 6' Grassed Shoulders, 6:1-2:1 Side Slopes				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	3,731	Year:	2037	Existing:	2,423	Year:	2017
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>The project consists of replacing Bridge# 42 on SR 1485 (Hampton Road) over Muddy Creek. The approach work will consist of providing paved/grass shoulders and guardrail. Bridge #42 existing three span structure (120.5' total length) will be replaced with 1 @ 90', 1@60' - 33" Box Beam upstream of the existing structure.</p> <p>Best Mgmt. Practices: -Promotion of sheet flow and infiltration with grassed shoulders. -Storm Drain in SW quad outlets to rip rap pad. -Ditch in SW quad outlets to rip rap on embankment to prevent erosion. -Cross pipe outlets to preformed scour hole which dissipates energy and promotes sheet flow -Elimination of one interior bent in water -No Deck Drains require</p>							

Waterbody Information

Surface Water Body (1):	Muddy Creek		NCDWR Stream Index No.:	12-94-(0.5)			
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C					
	Supplemental Classification:	None		None			
Other Stream Classification:							
Impairments:	None						
Threatened/Endangered Species?	No	Comments:					
NRTR Stream ID:	Muddy Creek		Buffer Rules in Effect:	N/A			
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	N/A		
Deck Drains Discharge Over Water Body?	No	(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)						

09/08/19

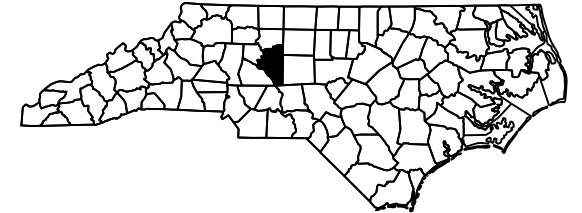
See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**PERMIT DRAWING
SHEET 1 OF 6**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5165	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42341.1.1	BRSTP-1485(2)	P.E.	
42341.2.2		UTIL.	
42341.2.1		R/W	

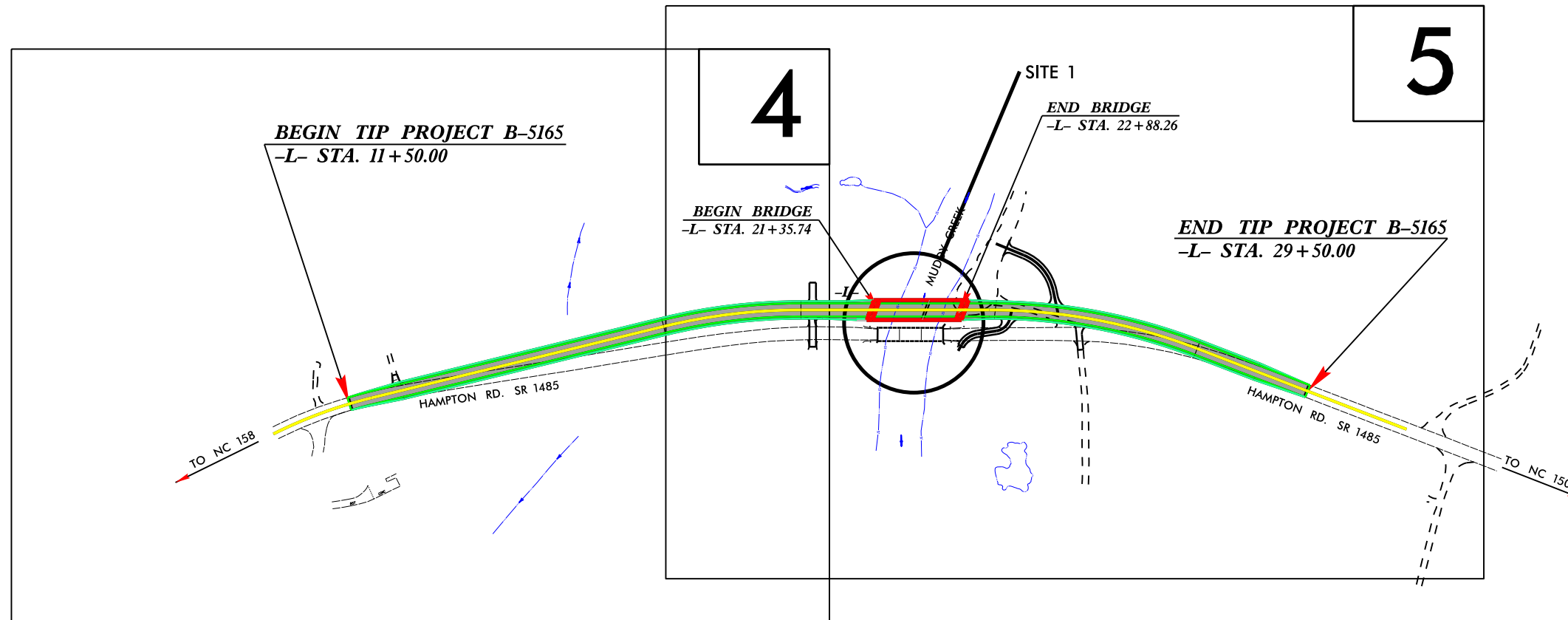


DAVIDSON COUNTY

**LOCATION: BRIDGE NO. 42 OVER MUDDY CREEK
ON SR 1485 (HAMPTON RD.)**

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

TIP PROJECT: B-5165

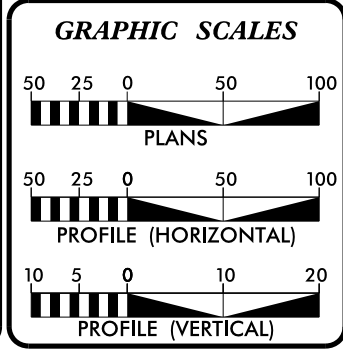


WETLAND AND SURFACE WATER IMPACTS PERMIT

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2017 =	2,423 VPD
ADT 2037 =	3,731 VPD
DHV =	11 %
D =	60 %
* T =	9 %
V =	60 MPH
* (TTST 3% + DUAL 6%)	
FUNC. CLASS. =	RURAL MAJOR COLLECTOR
SUBREGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5165 =	0.312 MILE
LENGTH STRUCTURE TIP PROJECT B-5165 =	0.029 MILE
TOTAL LENGTH TIP PROJECT B-5165 =	0.341 MILE

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

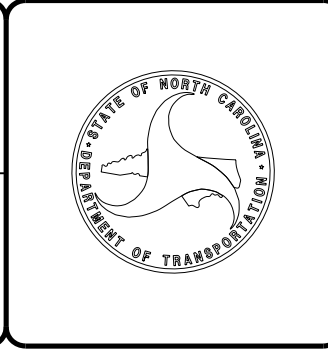
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: JUNE 28, 2016	TONY HOUSER, PE PROJECT ENGINEER
LETTING DATE: JUNE 20, 2017	JEFFREY L. TEAGUE, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

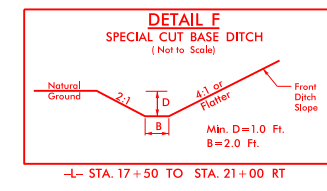
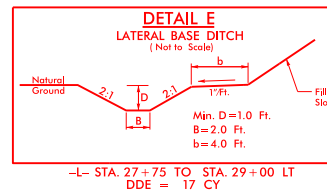
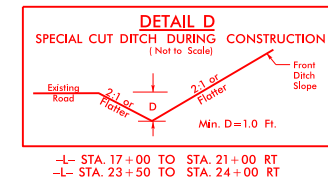
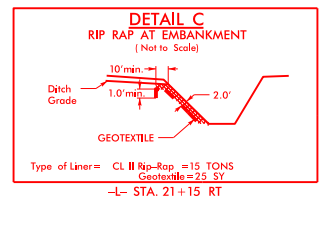
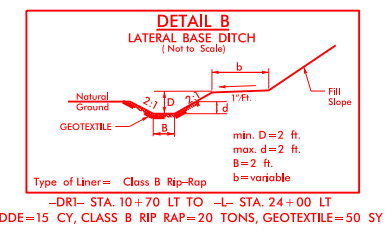
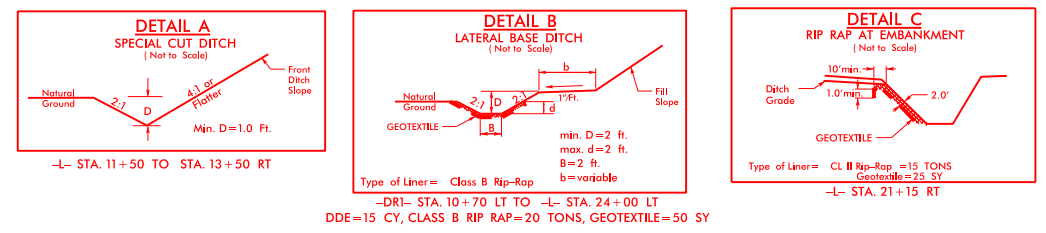
SIGNATURE: _____



7/8/2016
R:\Hydraulics\PERMITS_Environmental\Drawings\B-5165_Hyd_prm_wet_01_tsh.dgn
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
B-5165	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING
SHEET 3 OF 6**

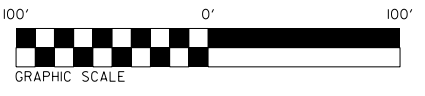
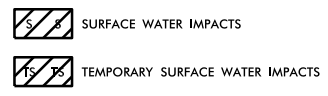
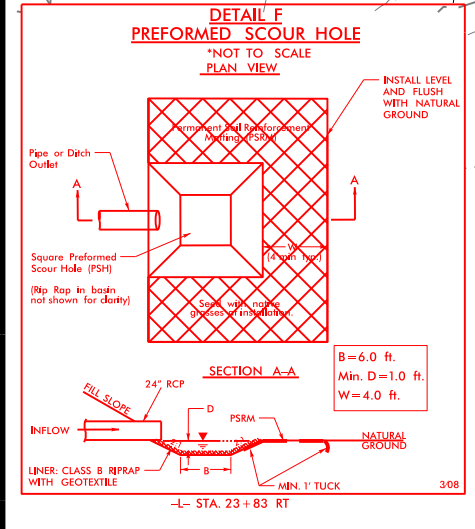
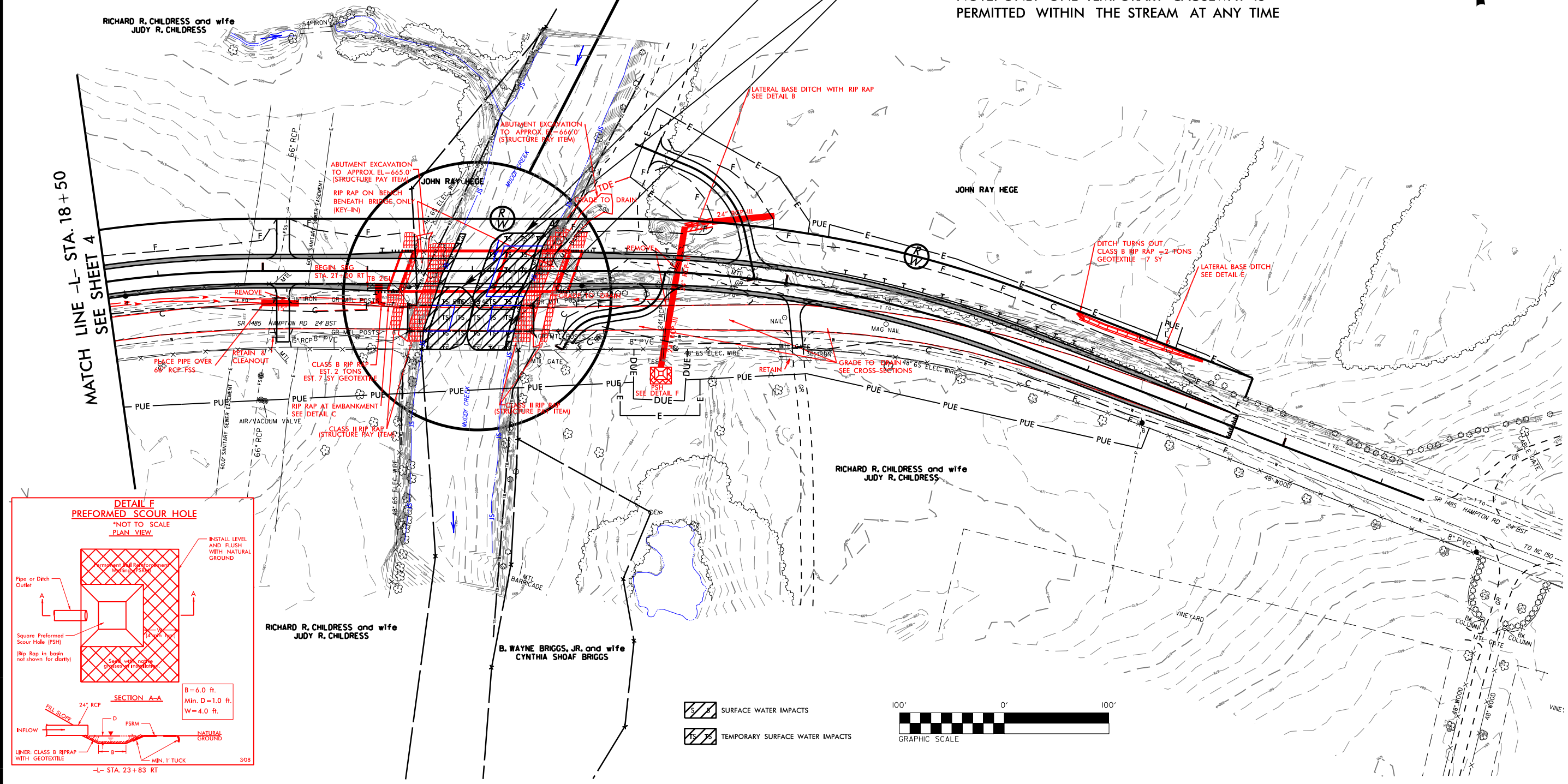


SITE 1

TEMPORARY IMPACTS
DUE TO CAUSEWAY
PHASE ONE

TEMPORARY IMPACTS
DUE TO CAUSEWAYS
PHASES TWO AND THREE

NOTE: ONLY ONE TEMPORARY CAUSEWAY IS
PERMITTED WITHIN THE STREAM AT ANY TIME



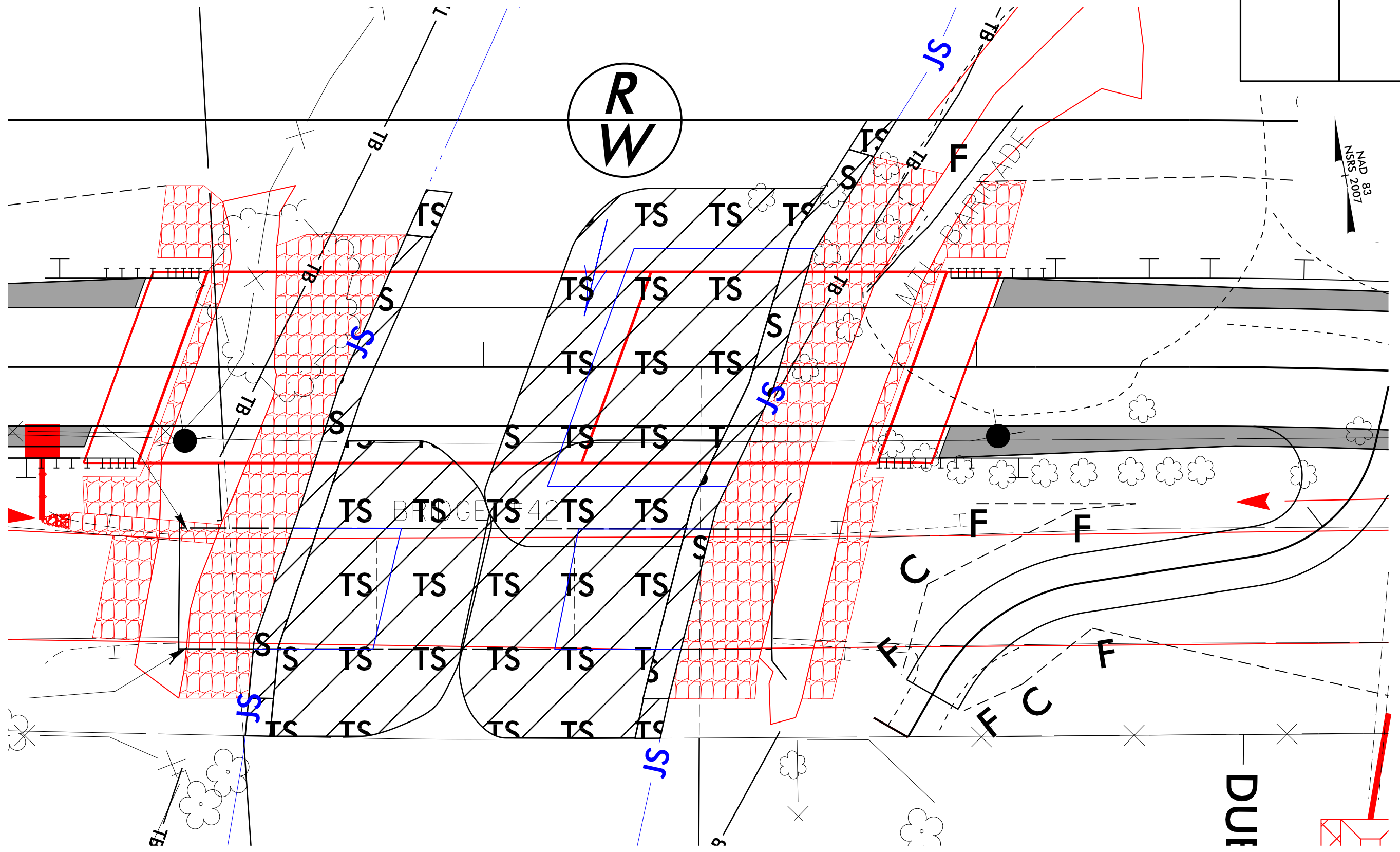
REVISIONS

7/19/2016
R:\Hydraulics\PERMITS_Environmental\Drawings\B-5165_Hyd_Prm_wet_03_psh.dwg
SYTIME
DESIGN

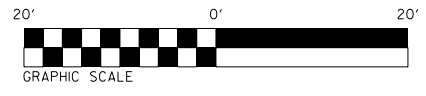
SITE 1 ENLARGEMENT

PERMIT DRAWING
SHEET 4 OF 6

PROJECT REFERENCE NO. B-5165	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



- SURFACE WATER IMPACTS
- TEMPORARY SURFACE WATER IMPACTS



REVISIONS

7/19/2016
dhe
K:\Hydraulics\PERMITS_Environmental\Drawings\B-5165_Hyd_Prm_wet_04.plt 2d.dgn
\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DESIGN\$\$\$\$
\$\$\$\$\$\$\$\$\$\$\$\$

5/14/99

PERMIT DRAWING
SHEET 5 OF 6

PROJECT REFERENCE NO.	SHEET NO.
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

20+00

21+00

22+00

23+00

24+00

PI = 24+50.00
EI = 674.90'
VC = 300'

680

670

660

650

PROPOSED GRADE
EXISTING GRADE

STA. 22+12 -L-
1@90' & 1@60'; 33" BOX BEAM
4' CAP 1.5:1 SPILL THROUGH
G.P. ELEV. = 673.1
SKEW = 110'

(+)-0.5000% (-)-0.5667%

NG LT

ABUTMENT EXCAVATION
TO APPROX. EL = 665.0'

CLASS II RIP RAP
1.5:1 OR FLATTER

LOW SIDE, LOW CHORD
ABUTMENT EXCAVATION
TO APPROX. EL = 666.0'

CLASS B RIP RAP
CLASS II RIP RAP
1.5:1 OR FLATTER

NWS = 656'
TEMPORARY
CAUSEWAY

NG RT

TEMPORARY CAUSEWAYS
MINIMUM TOP EL. = 1' ABOVE NWS

DETAIL
REMOVE EXISTING BRIDGE
& EXCAVATE

EXISTING GRADE

670

660

650

TEMPORARY
CAUSEWAY

CLASS II RIP RAP

CLASS B RIP RAP

NWS = 656'

TEMPORARY
CAUSEWAY

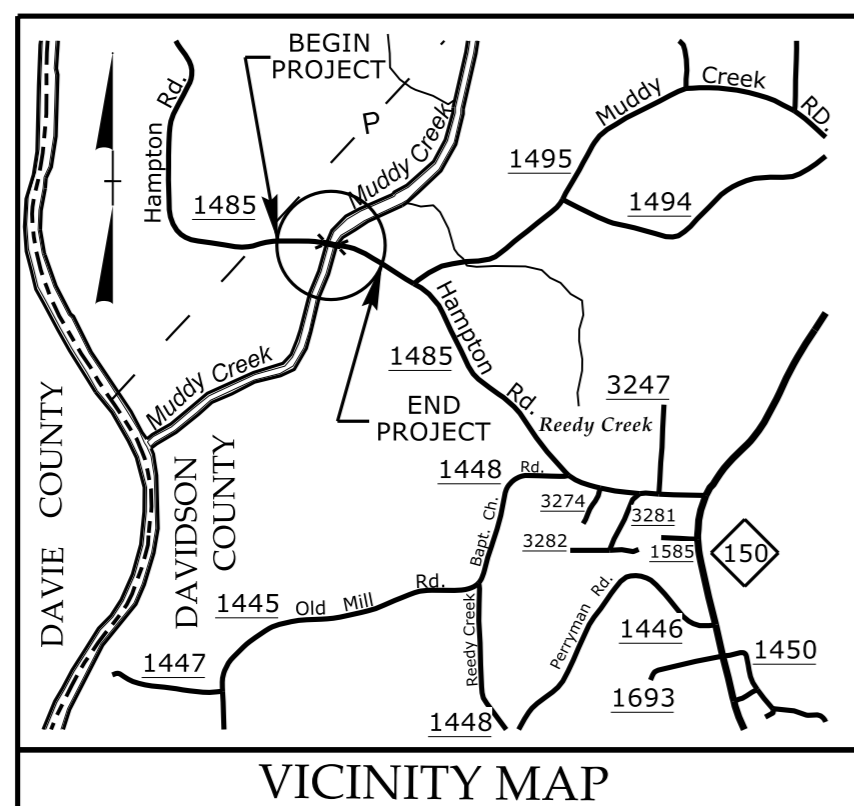
CLASS B RIP RAP

CLASS II RIP RAP

7/3/2016
ghe
R:\Hydraulics\PERMITS_Environmental\Drawings\B-5105_Hyd_Prm_ver_05_pfl.dgn
\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$\$\$\$\$\$

09/08/99

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Conventional Symbols



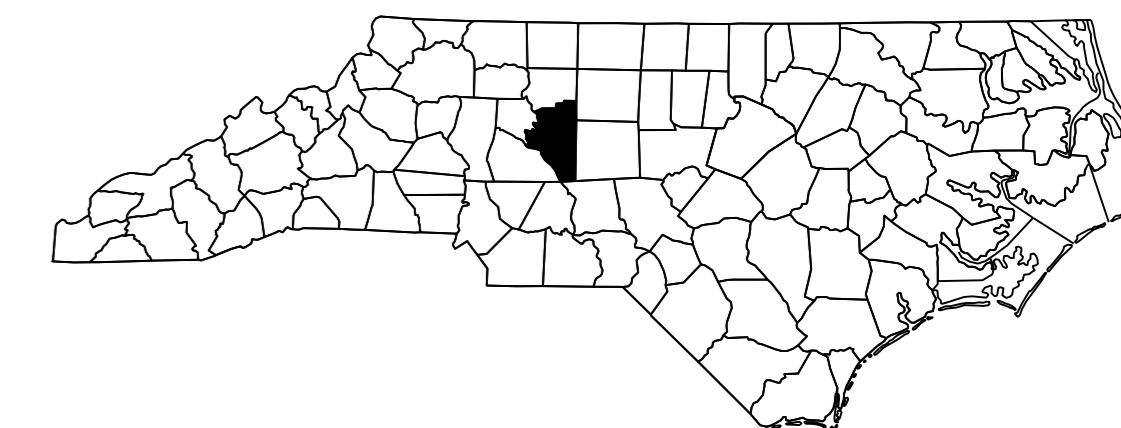
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DAVIDSON COUNTY

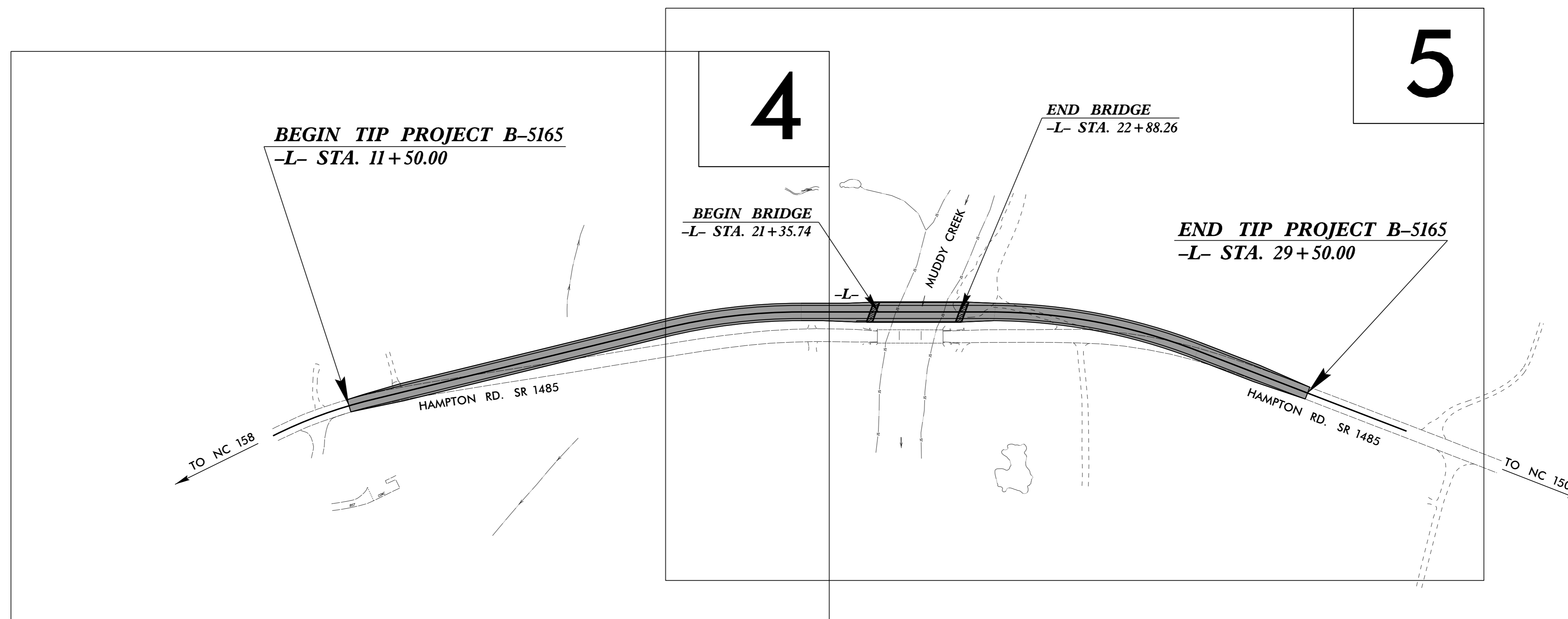
**LOCATION: BRIDGE NO. 42 OVER MUDDY CREEK
ON SR 1485 (HAMPTON RD.)**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5165	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42341.1.1	BRSTP-1485(2)	P.E.	
42341.2.2		UTIL.	
42341.2.1		RW	



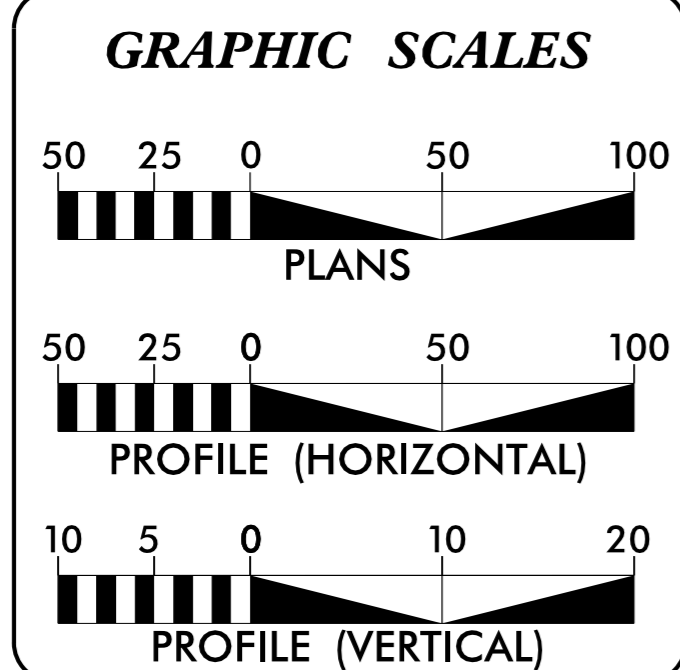
TIP PROJECT: B-5165



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2017 =	2,423 VPD
ADT 2037 =	3,731 VPD
DHV =	11 %
D =	60 %
* T =	9 %
V =	60 MPH
* (TTST 3% + DUAL 6%)	
FUNC. CLASS. =	RURAL MAJOR COLLECTOR
SUBREGIONAL TIER	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5165 =	0.312 MILE
LENGTH STRUCTURE TIP PROJECT B-5165 =	0.029 MILE
TOTAL LENGTH TIP PROJECT B-5165 =	0.341 MILE

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

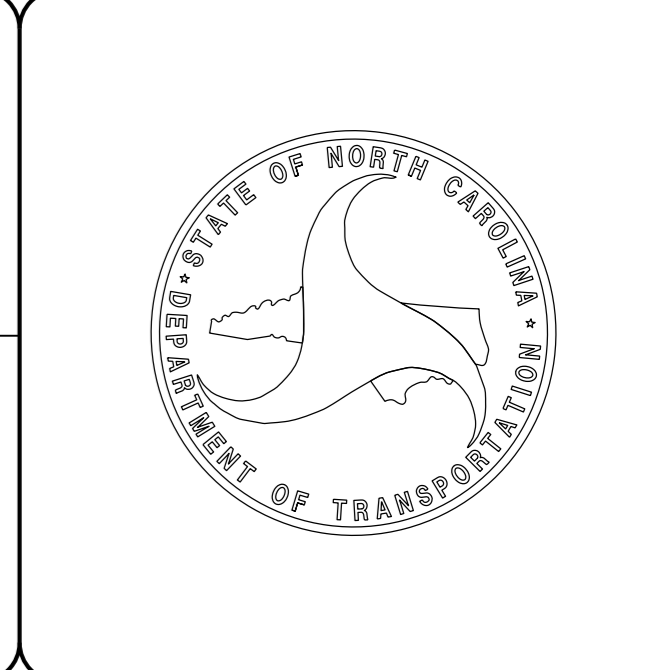
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: JUNE 28, 2016	TONY HOUSER, PE PROJECT ENGINEER
LETTING DATE: JUNE 20, 2017	JEFFREY L. TEAGUE, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

SIGNATURE: _____



27-JUN-2016 08:56 R:\Roadway\Proj\B5165_Rdy_tsh.dgn \$\$\$USERNAME\$\$\$

5/28/99

PROJECT REFERENCE NO.		SHEET NO.
B-5165		6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 9350	CFS	DRAINAGE AREA	= 15.9	AC
DESIGN FREQUENCY	= 5	YRS	DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 671.3	FT	DESIGN DISCHARGE	= 18	CFS
BASE DISCHARGE	= 23814	CFS	DESIGN HW ELEVATION	= 666.7	FT
BASE FREQUENCY	= 100	YRS	100 YEAR DISCHARGE	= 20	CFS
BASE HW ELEVATION	= 677.59	FT	100 YEAR HW ELEVATION	= 667.10	FT
OVERTOPPING DISCHARGE	= 11400	CFS	OVERTOPPING FREQUENCY	= 10	YRS
OVERTOPPING FREQUENCY	= 10	YRS	OVERTOPPING DISCHARGE	= 16.5	CFS
OVERTOPPING ELEVATION	= 672.9	FT	OVERTOPPING ELEVATION	= 666.5	FT

ESTIMATED NORMAL WATER = 656.00 FT SURFACE ELEVATION

DATE OF SURVEY = 1/19/2016

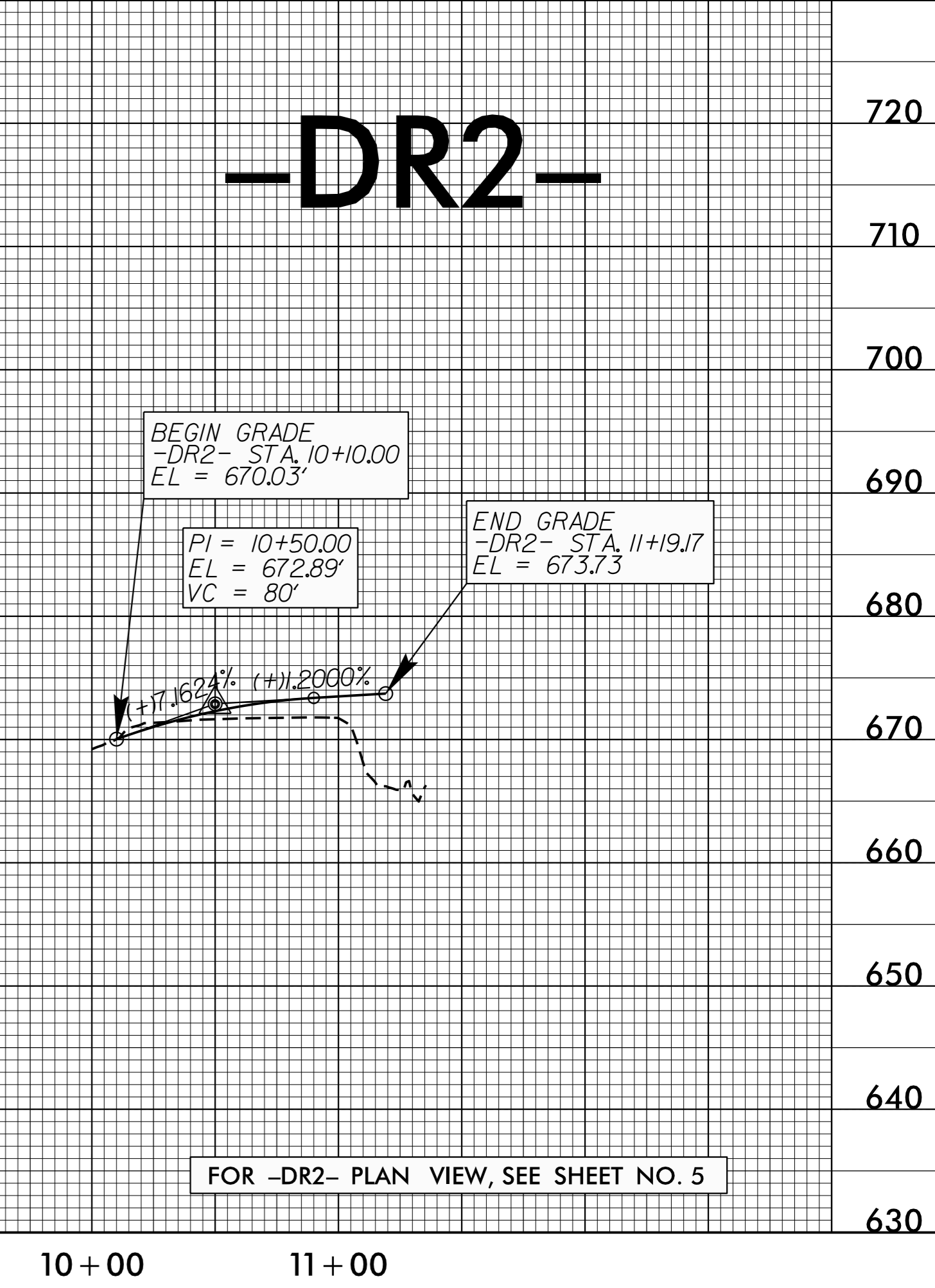
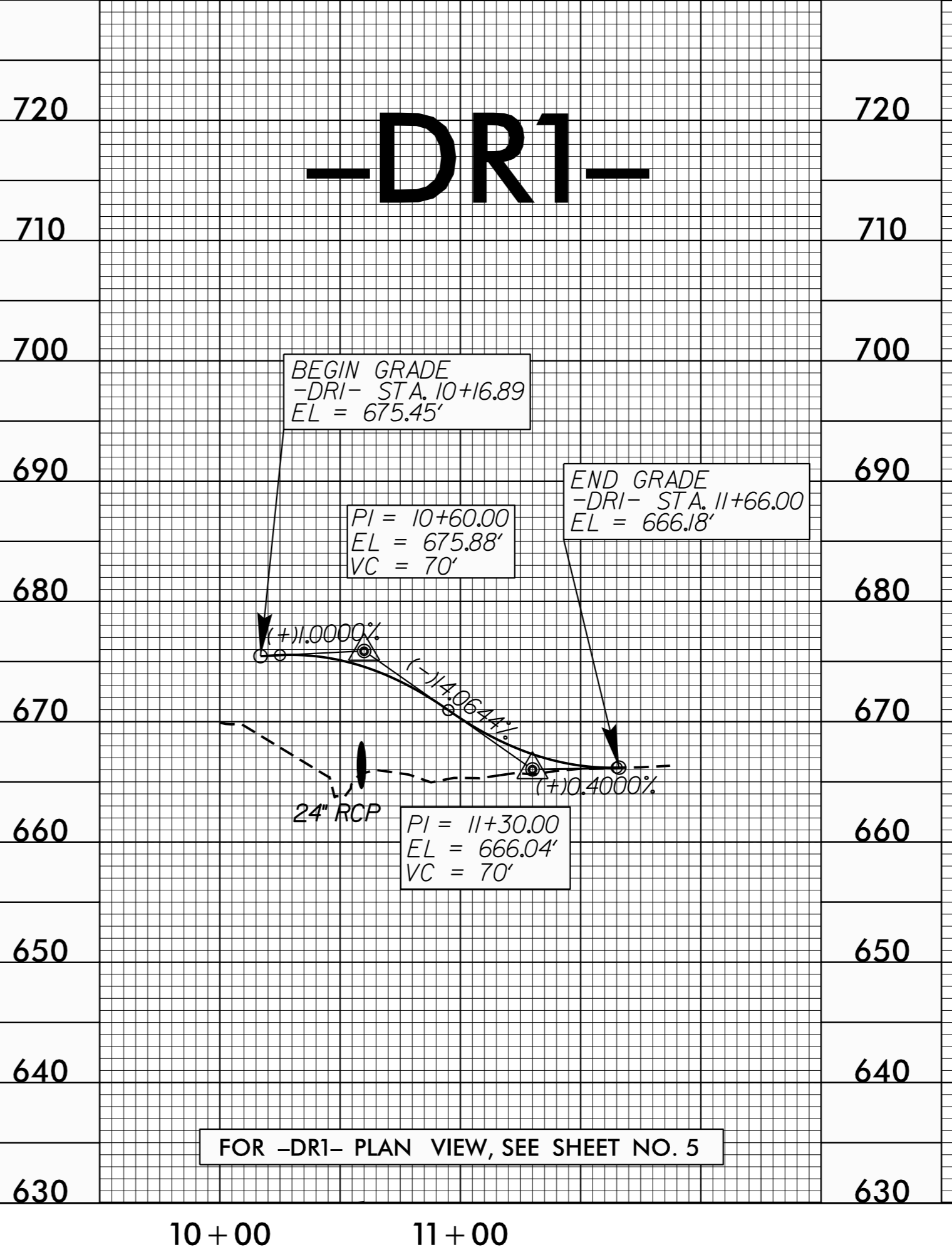
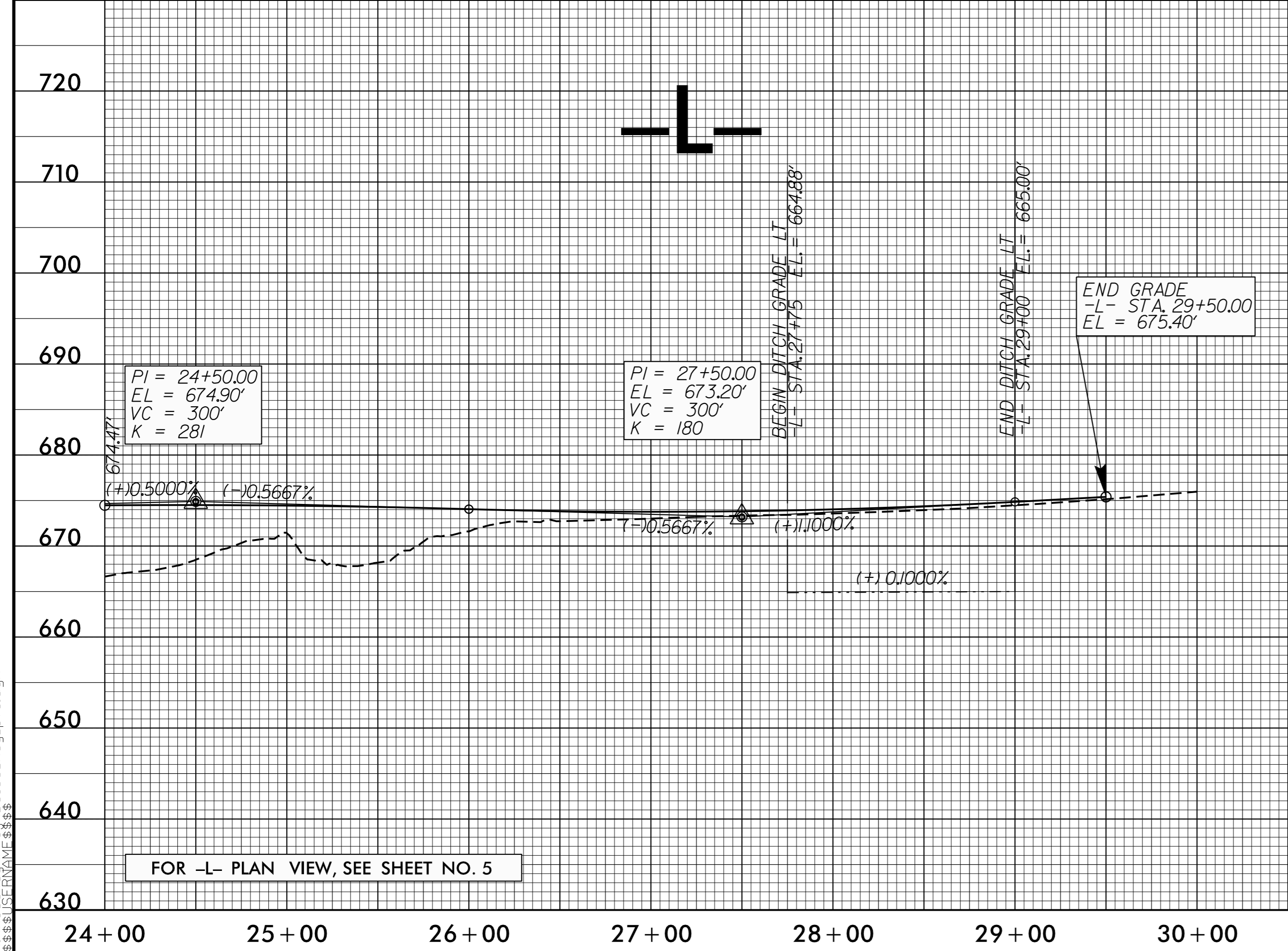
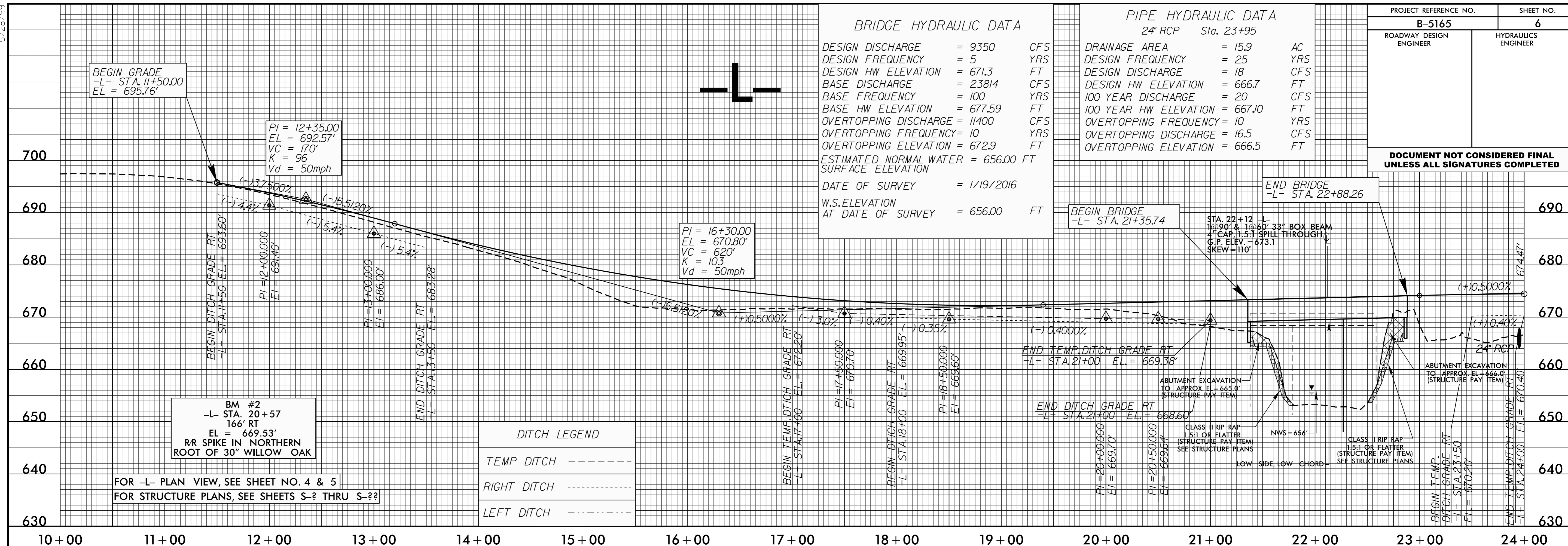
W.S. ELEVATION AT DATE OF SURVEY = 656.00 FT

PIPE HYDRAULIC DATA

24" RCP Sta. 23+95

DRAINAGE AREA	= 15.9	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 18	CFS
DESIGN HW ELEVATION	= 666.7	FT
100 YEAR DISCHARGE	= 20	CFS
100 YEAR HW ELEVATION	= 667.10	FT
OVERTOPPING FREQUENCY	= 10	YRS
OVERTOPPING DISCHARGE	= 16.5	CFS
OVERTOPPING ELEVATION	= 666.5	FT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



27 JUN 2016 08:57 05165_Rdy.plt.dgn