



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

June 2, 2008

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

ATTN: Mr. David Baker
NCDOT Coordinator

SUBJECT: **Nationwide Permit 13 and 33 Application** for the proposed replacement of Bridge No. 202 over First Broad River on SR 1733. Rutherford County, Federal Aid Project No. BRZ-1733(13), Division 13, T.I.P. No. B-4265, WBS Element 33607.1.1

Dear Mr. Baker:

Please find enclosed the Preconstruction Notification, permit drawings, half-size design plans, and an email from Wildlife Resources Commission for the above-mentioned project. A Categorical Exclusion (CE) was completed for this project in January 2006 and distributed shortly thereafter. Additional copies of the CE are available upon request. The North Carolina Department of Transportation (NCDOT) plans to replace the existing 105-foot long bridge, with a new 160-foot by 33-foot long bridge. Traffic will use an offsite detour during construction. Permanent impacts total 64 linear feet. Temporary impacts will be 0.02 acre fill in the First Broad River.

IMPACTS TO WATERS OF THE UNITED STATES

General Description: The project is located in the Broad River Basin (HUC 03050105) and will impact the First Broad River. The First Broad River (Index # 9-50-(01)) is assigned a best usage classification of WS-V Tr, by the N.C. Division of Water Quality (DWQ). The First Broad River is not designated as a North Carolina Natural or Scenic River, or as a National Wild and Scenic River, nor is it listed on the 2006 Final 303(d) list. The project does not drain to a 303(d) stream within one mile of the project limits. No designated High Quality Waters (HQW), Outstanding Resource Waters (ORW), Water Supply I (WS-I), or Water Supply II (WS-II) waters occur within 1.0 mile of the project. No wetlands occur on the project.

Permanent Impacts: Permanent stream impacts will total 64 feet from the placement of riprap on the banks of the First Broad River under the proposed bridge and at the outlet of the lateral base ditch.

Temporary Impacts: Temporary impacts of 0.02 acre of fill are expected from the construction of a temporary work causeway and a temporary work bridge. The work causeway will be used to drill the piers for the new bridge and the work bridge will be required to set the spans for the new bridge. The causeway will not block greater than 50% of the channel.

Utility Impacts: No impacts will occur to jurisdictional resources due to utility relocations.

Bridge Demolition: Bridge No. 202 consists of a timber floor on I-beams with an asphalt wearing surface. The end bents and interior bents are composed entirely of timber and one interior bent has a concrete sill. Removal of the old bridge is not expected to result in any fill in the First Broad River. NCDOT's Best Management Practices for Bridge Demolition and Removal will be implemented.

FEDERALLY-PROTECTED SPECIES

Plants and animals with federal classifications of Endangered (E), Threatened (T), Proposed Endangered (PE) and Proposed Threatened (PT) are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of January 31, 2008 the U.S. Fish and Wildlife Service (FWS) lists 5 federally protected species that occur in Rutherford County (Table 1). No federally protected species were found during surveys conducted in April and May of 2002. A resurvey of the project area on May 28, 2007 confirmed no federally protected species are present on the project area.

Table 1: Federally Protected Species of Rutherford County

Scientific Name	Common Name	Federal Status	Biological Conclusion	Habitat Present
<i>Myotis sodalis</i>	Indiana bat	E	No Effect	No
<i>Hexastylis naniflora</i>	Dwarf flowered heartleaf	T	No Effect	Yes
<i>Isotria medeoloides</i>	Small whorled pogonia	T	No Effect	Yes
<i>Sisyrinchium dichotomum</i>	White irisette	E	No Effect	Yes
<i>Gymnoderma lineare</i>	Rock gnome lichen	E	No Effect	No

AVOIDANCE AND MINIMIZATION

The NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize jurisdictional impacts, and to provide full compensatory mitigation of all remaining, unavoidable jurisdictional impacts. Avoidance measures were taken

during the planning and NEPA compliance stages; minimization measures were incorporated as part of the project design and include:

- An offsite detour will be used.
- Best Management Practices for Bridge Demolition and Removal will be followed.
- Best Management Practices for the protection of Surface Waters will be enforced during the construction of the project.
- The new bridge will be longer than the existing structure.
- Design Standards in Sensitive Watersheds will be followed.
- An in water construction moratorium for trout will be observed between January 1 and April 15 (reference email attached).

MITIGATION

Mitigation is not proposed because permanent impacts are from bank stabilization and do not constitute “loss of waters of U.S.” Additionally, no high quality resources or special aquatic habitat will be impacted by the proposed project.

PROJECT SCHEDULE

The project is scheduled to let December 16, 2008 and has a review date of October 28, 2008.

REGULATORY APPROVALS

Section 404 Permit: NCDOT hereby requests that the above described impacts be authorized under Clean Water Act Section 404 Nationwide Permits 13 and 33.

Section 401 Permit: We anticipate 401 General Certification numbers 3689 and 3688 will apply to this project. The NCDOT will adhere to all Water Quality Certification general conditions. Therefore, we are not requesting written concurrence. We are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their records.

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

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Brett Feulner at bmfeulner@dot.state.nc.us or (919) 715-1488.

A copy of this permit application will be posted on the DOT website at:
<http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>.

Sincerely,



Gregory J. Thorpe, Ph.D. Environmental Management Director,
Project Development and Environmental Analysis Branch

cc: w/attachment

Mr. Brian Wrenn, NCDWQ (2 Copies)

Ms. Marella Buncick, USFWS

Ms. Marla Chambers, NCWRC

w/o attachment (see website for attachments)

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

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

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

Mr. Scott McLendon, USACE, Wilmington

Mr. John Williams, PDEA

Mr. Victor Barbour, P.E. Project Services

Mr. Roger Bryan, Div 13 DEO

Dr. David Chang, P.E., Hydraulics

Mr. JJ Swain, P.E. Division 13 Engineer

Mr. Mark Staley, Roadside Environmental

Mr. Greg Perfetti, P.E., Structure Design

Office Use Only:

Form Version March 05

USACE Action ID No. _____ DWQ No. _____

(If any particular item is not applicable to this project, please enter "Not Applicable" or "N/A".)

I. Processing

1. Check all of the approval(s) requested for this project:

<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Riparian or Watershed Buffer Rules
<input type="checkbox"/> Section 10 Permit	<input type="checkbox"/> Isolated Wetland Permit from DWQ
<input type="checkbox"/> 401 Water Quality Certification	<input type="checkbox"/> Express 401 Water Quality Certification

2. Nationwide, Regional or General Permit Number(s) Requested: NW 13 & 33
3. If this notification is solely a courtesy copy because written approval for the 401 Certification is not required, check here:
4. If payment into the North Carolina Ecosystem Enhancement Program (NCEEP) is proposed for mitigation of impacts, attach the acceptance letter from NCEEP, complete section VIII, and check here:
5. If your project is located in any of North Carolina's twenty coastal counties (listed on page 4), and the project is within a North Carolina Division of Coastal Management Area of Environmental Concern (see the top of page 2 for further details), check here:

II. Applicant Information

1. Owner/Applicant Information

Name: Gregory J. Thorpe, Ph.D., Environmental Management Director
Mailing Address: 1598 Mail Service Center
Raleigh, NC 27699

Telephone Number: (919) 733-3141 Fax Number: (919) 733-9794
E-mail Address: gthorpe@dot.state.nc.us

2. Agent/Consultant Information (A signed and dated copy of the Agent Authorization letter must be attached if the Agent has signatory authority for the owner/applicant.)

Name: _____
Company Affiliation: _____
Mailing Address: _____

Telephone Number: _____ Fax Number: _____
E-mail Address: _____

III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

1. Name of project: Replacement of Bridge No. 202 over First Broad River
2. T.I.P. Project Number or State Project Number (NCDOT Only): B-4265
3. Property Identification Number (Tax PIN): N/A
4. Location
County: Rutherford Nearest Town: Rutherfordton
Subdivision name (include phase/lot number): N/A
Directions to site (include road numbers/names, landmarks, etc.): The site is located at the crossing of SR 1733 over First Broad River
5. Site coordinates (For linear projects, such as a road or utility line, attach a sheet that separately lists the coordinates for each crossing of a distinct waterbody.)
Decimal Degrees (6 digits minimum): 35.5236°N, 81.7526°W
6. Property size (acres): N/A
7. Name of nearest receiving body of water: First Broad River
8. River Basin: Broad River
(Note – this must be one of North Carolina's seventeen designated major river basins. The River Basin map is available at <http://h2o.enr.state.nc.us/admin/maps/>.)
9. Describe the existing conditions on the site and general land use in the vicinity of the project at the time of this application: Forestland

10. Describe the overall project in detail, including the type of equipment to be used: _____
Standard DOT construction equipment.

11. Explain the purpose of the proposed work: The purpose is to replace the old bridge that is functionally obsolete and structurally deficient.

IV. Prior Project History

If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWQ Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with construction schedules. NA

V. Future Project Plans

Are any future permit requests anticipated for this project? If so, describe the anticipated work, and provide justification for the exclusion of this work from the current application.

No

VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. Each impact must be listed separately in the tables below (e.g., culvert installation should be listed separately from riprap dissipater pads). Be sure to indicate if an impact is temporary. All proposed impacts, permanent and temporary, must be listed, and must be labeled and clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) should be shown on a delineation map, whether or not impacts are proposed to these systems. Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

1. Provide a written description of the proposed impacts: _____
The project impacts are as follows, 64 feet of permanent stream impacts, 0.02 acre of temporary stream impacts

2. Individually list wetland impacts. Types of impacts include, but are not limited to mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams, separately list impacts due to both structure and flooding.

Wetland Impact Site Number (indicate on map)	Type of Impact	Type of Wetland (e.g., forested, marsh, herbaceous, bog, etc.)	Located within 100-year Floodplain (yes/no)	Distance to Nearest Stream (linear feet)	Area of Impact (acres)
Total Wetland Impact (acres)					

3. List the total acreage (estimated) of all existing wetlands on the property: 0

4. Individually list all intermittent and perennial stream impacts. Be sure to identify temporary impacts. Stream impacts include, but are not limited to placement of fill or culverts, dam construction, flooding, relocation, stabilization activities (e.g., cement walls, rip-rap, crib walls, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included. To calculate acreage, multiply length X width, then divide by 43,560.

Stream Impact Number (indicate on map)	Stream Name	Type of Impact	Perennial or Intermittent?	Average Stream Width Before Impact	Impact Length (linear feet)	Area of Impact (acres)
Site 1	First Broad River	Temporary	Perennial	25	21	0.02
Site 1	First Broad River	Permanent	Perennial	25	64	<0.01
Total Stream Impact (by length and acreage)					85	0.02

5. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.). Open water impacts include, but are not limited to fill, excavation, dredging, flooding, drainage, bulkheads, etc.

Open Water Impact Site Number (indicate on map)	Name of Waterbody (if applicable)	Type of Impact	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)	Area of Impact (acres)
Total Open Water Impact (acres)				

6. List the cumulative impact to all Waters of the U.S. resulting from the project:

Stream Impact (acres):	0.02
Wetland Impact (acres):	0
Open Water Impact (acres):	0
Total Impact to Waters of the U.S. (acres)	0.02
Total Stream Impact (linear feet):	64 Permanent /21 Temporary

7. Isolated Waters

Do any isolated waters exist on the property? Yes No

Describe all impacts to isolated waters, and include the type of water (wetland or stream) and the size of the proposed impact (acres or linear feet). Please note that this section only applies to waters that have specifically been determined to be isolated by the USACE.

8. Pond Creation

If construction of a pond is proposed, associated wetland and stream impacts should be included above in the wetland and stream impact sections. Also, the proposed pond should be described here and illustrated on any maps included with this application.

Pond to be created in (check all that apply): uplands stream wetlands

Describe the method of construction (e.g., dam/embankment, excavation, installation of draw-down valve or spillway, etc.): _____

Proposed use or purpose of pond (e.g., livestock watering, irrigation, aesthetic, trout pond, local stormwater requirement, etc.): _____

Current land use in the vicinity of the pond: _____

Size of watershed draining to pond: _____ Expected pond surface area: _____

VII. Impact Justification (Avoidance and Minimization)

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts. Best Management Practices for the Protection of Surface Waters, BMP's for Bridge Demolition and Removal, on offsite detour will be used, the new bridge will be longer then the existing bridge, design standards for sensitive watersheds, a trout moratorium will be observed between January 1 and April 15.

VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on January 15, 2002, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors including size and type of proposed impact and function and relative value of the impacted

aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. 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 and/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, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCEEP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at <http://h2o.enr.state.nc.us/ncwetlands/strmgide.html>.

1. Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet) of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view, preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.

Mitigation is not proposed

2. Mitigation may also be made by payment into the North Carolina Ecosystem Enhancement Program (NCEEP). Please note it is the applicant's responsibility to contact the NCEEP at (919) 715-0476 to determine availability, and written approval from the NCEEP indicating that they are will to accept payment for the mitigation must be attached to this form. For additional information regarding the application process for the NCEEP, check the NCEEP website at <http://h2o.enr.state.nc.us/wrp/index.htm>. If use of the NCEEP is proposed, please check the appropriate box on page five and provide the following information:

Amount of stream mitigation requested (linear feet): _____

Amount of buffer mitigation requested (square feet): _____

Amount of Riparian wetland mitigation requested (acres): _____

Amount of Non-riparian wetland mitigation requested (acres): _____

Amount of Coastal wetland mitigation requested (acres): _____

IX. Environmental Documentation (required by DWQ)

1. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? Yes No
2. If yes, does the project require preparation of an environmental document pursuant to the requirements of the National or North Carolina Environmental Policy Act (NEPA/SEPA)?

Note: If you are not sure whether a NEPA/SEPA document is required, call the SEPA coordinator at (919) 733-5083 to review current thresholds for environmental documentation.
 Yes No

3. If yes, has the document review been finalized by the State Clearinghouse? If so, please attach a copy of the NEPA or SEPA final approval letter. Yes No

X. Proposed Impacts on Riparian and Watershed Buffers (required by DWQ)

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to required state and local buffers associated with the project. The applicant must also provide justification for these impacts in Section VII above. All proposed impacts must be listed herein, and must be clearly identifiable on the accompanying site plan. All buffers must be shown on a map, whether or not impacts are proposed to the buffers. Correspondence from the DWQ Regional Office may be included as appropriate. Photographs may also be included at the applicant's discretion.

1. Will the project impact protected riparian buffers identified within 15A NCAC 2B .0233 (Neuse), 15A NCAC 2B .0259 (Tar-Pamlico), 15A NCAC 02B .0243 (Catawba) 15A NCAC 2B .0250 (Randleman Rules and Water Supply Buffer Requirements), or other (please identify _____)? Yes No
2. If "yes", identify the square feet and acreage of impact to each zone of the riparian buffers. If buffer mitigation is required calculate the required amount of mitigation by applying the buffer multipliers.

Zone*	Impact (square feet)	Multiplier	Required Mitigation
1		3 (2 for Catawba)	
2		1.5	
Total			

* Zone 1 extends out 30 feet perpendicular from the top of the near bank of channel; Zone 2 extends an additional 20 feet from the edge of Zone 1.

3. If buffer mitigation is required, please discuss what type of mitigation is proposed (i.e., Donation of Property, Riparian Buffer Restoration / Enhancement, or Payment into the Riparian Buffer Restoration Fund). Please attach all appropriate information as identified within 15A NCAC 2B .0242 or .0244, or .0260. _____

XI. Stormwater (required by DWQ)

Describe impervious acreage (existing and proposed) versus total acreage on the site. Discuss stormwater controls proposed in order to protect surface waters and wetlands downstream from the property. If percent impervious surface exceeds 20%, please provide calculations demonstrating total proposed impervious level. Approximately the same as current conditions, no water will directly discharge into First Broad River.

XII. Sewage Disposal (required by DWQ)

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.

N/A

XIII. Violations (required by DWQ)

Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules?

Yes No

Is this an after-the-fact permit application? Yes No

XIV. Cumulative Impacts (required by DWQ)

Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? Yes No

If yes, please submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent North Carolina Division of Water Quality policy posted on our website at <http://h2o.enr.state.nc.us/ncwetlands>. If no, please provide a short narrative description: _____

Replace an existing structure

XV. Other Circumstances (Optional):

It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits on work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).



Applicant/Agent's Signature

5.28.08

Date

(Agent's signature is valid only if an authorization letter from the applicant is provided.)

Subject: RE: B-4265-Rutherford Co-Trout status
From: "marla chambers" <marla.chambers@ctc.net>
Date: Mon, 17 Mar 2008 09:44:37 -0400
To: "Brett M. Feulner" <bmfeulner@dot.state.nc.us>

Yes, I can confirm that the Jan. 1 to Apr. 15 moratorium for rainbow trout does apply to this project. Sorry for any previous confusion.

Marla Chambers
Western NCDOT Permit Coordinator
NC Wildlife Resources Commission
12275 Swift Rd.
Oakboro, NC 28129
marla.chambers@ctc.net
phone (cell): 704-984-1070

-----Original Message-----

From: Brett M. Feulner [<mailto:bmfeulner@dot.state.nc.us>]
Sent: Friday, March 14, 2008 1:58 PM
To: marla chambers
Subject: Re: B-4265-Rutherford Co-Trout status

Marla,
I wanted to confirm that I have the correct information before we apply for the permits. I have in my file that WRC requested moratorium dates of January 1 to to April 15 for the rainbow trout, however the scoping comments from WRC I have do not include any dates. Can you confirm if the January 1 to April 15 dates are correct?
Thanks
Brett

marla chambers wrote:

It appears this project is designated trout water by DWQ, but NCWRC's classifications are more management/fishing regulations designations, not

a

presence or absence of trout type of thing. We designate the waters as Hatchery Supported or Wild Trout waters, etc. to place certain fishing regulations on those types of waters. Hope that helps.

Marla Chambers
Western NCDOT Permit Coordinator
NC Wildlife Resources Commission
12275 Swift Rd.
Oakboro, NC 28129
marla.chambers@ctc.net
phone (cell): 704-984-1070

-----Original Message-----

From: Brett M. Feulner [<mailto:bmfeulner@dot.state.nc.us>]
Sent: Thursday, January 17, 2008 10:19 AM
To: Marla Chambers
Cc: Carla S. Dagnino
Subject: B-4265-Rutherford Co-Trout status

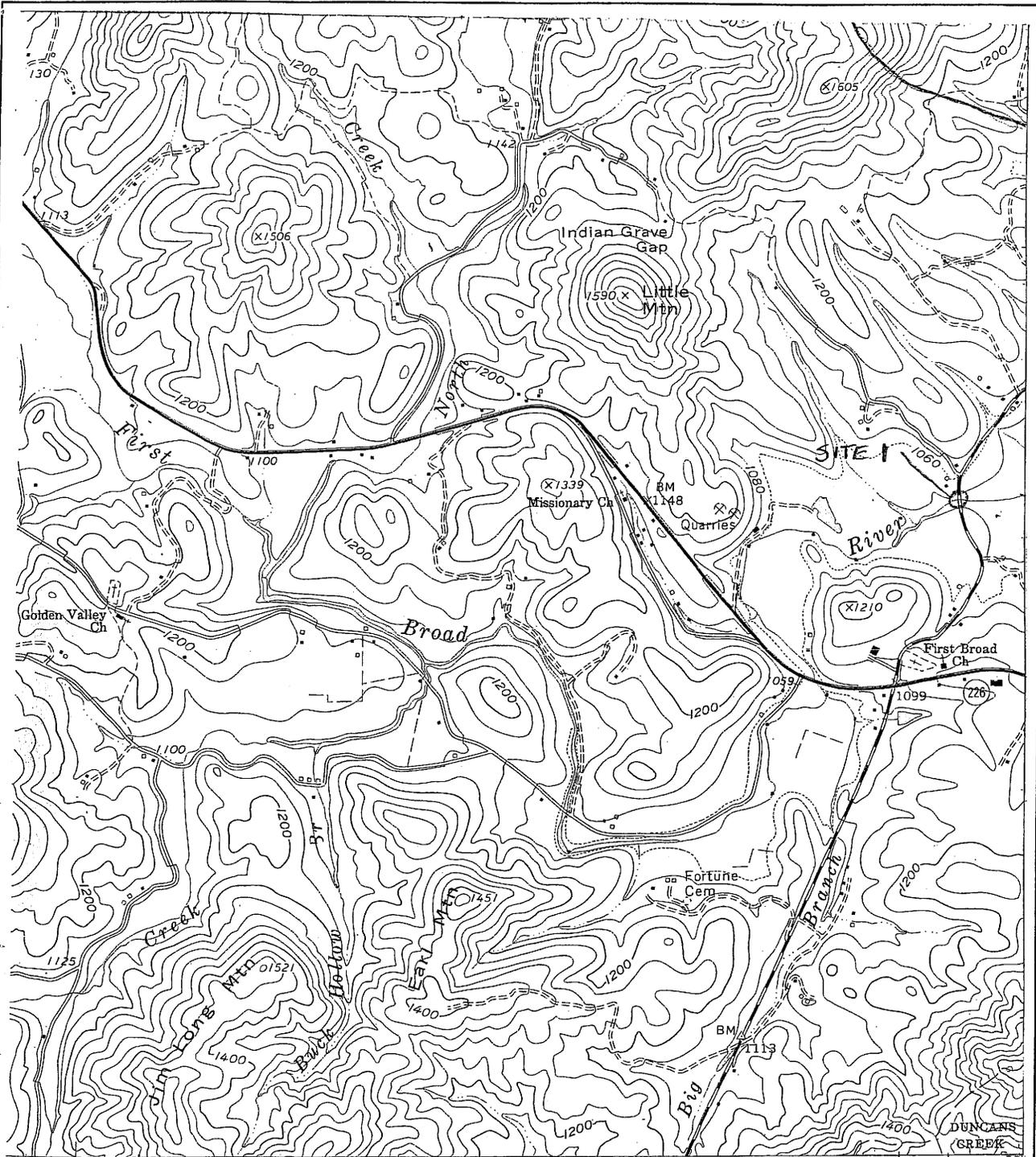
Marla,
Can you please clear up WRC's comments that were included in the CE for B-4265.

"Rutherford County is listed as a mountain trout county. This stream is not designated as trout water; however, it is the opinion of biologists with the NCWRC that this stream reach may support trout and adverse impacts to trout could result from the project. A moratorium for

Rainbow Trout is required from January 1 through April 15. Erosion Control in Sensitive Watersheds will also be implemented for this project. _Guidelines for the Construction of Highway Improvements Adjacent to or Crossing Trout Waters in North Carolina will be applied to this project_."

Is the stream not designated as a trout water by WRC, DWQ, or both? If the stream has trout it seems like it would be classified by WRC as a trout stream. Hopefully you can help us out.

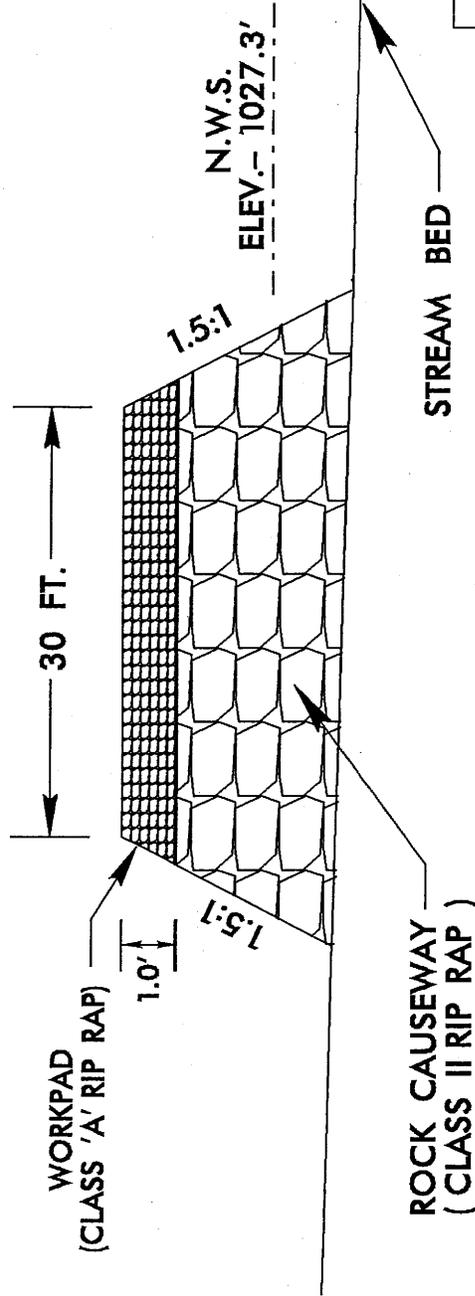
Thanks again for your help
Brett



VICINITY
MAP

NCDOT
 DIVISION OF HIGHWAYS
 RUTHERFORD COUNTY
 PROJECT: 33607.1.1 (B-4265)
 BRIDGE NO. 202 ON
 SR 1733 (JONESTOWN RD.)
 OVER FIRST BROAD RIVER

SHEET 1 OF 8 2/4/08



TYPICAL SECTION
(NOT TO SCALE)

QUANTITIES OF ESTIMATES
VOLUME OF TEMPORARY FILL
IN SURFACE WATER
(BELOW NWS): @ 75 CY

NC DOT

DIVISION OF HIGHWAYS
RUTHERFORD COUNTY
PROJECT: 33607.1.1 (B-4265)
REPLACE BRIDGE #202 OVER
FIRST BROAD RIVER ON SR 1753

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
2	GLEN HENNESSEE & TONY HENNESSEE	
3	TERRY W. THOMAS	107 JOHN HUDSON RD. BOSTIC, NC 28028
5	ARTHUR V. BLANKENSHIP	1105 GRASSY KNOB ROAD RUTHERFORDTON, NC 28139

NCDOT

**DIVISION OF HIGHWAYS
RUTHERFORD COUNTY
PROJECT: 33607.1.1 (B-4265)
BRIDGE NO. 202 ON
SR 1733 (JONESTOWN RD.)
OVER FIRST BROAD RIVER**

SHEET

3

OF

8

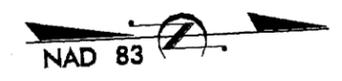
2/4/08

RUTHERFORD COUNTY

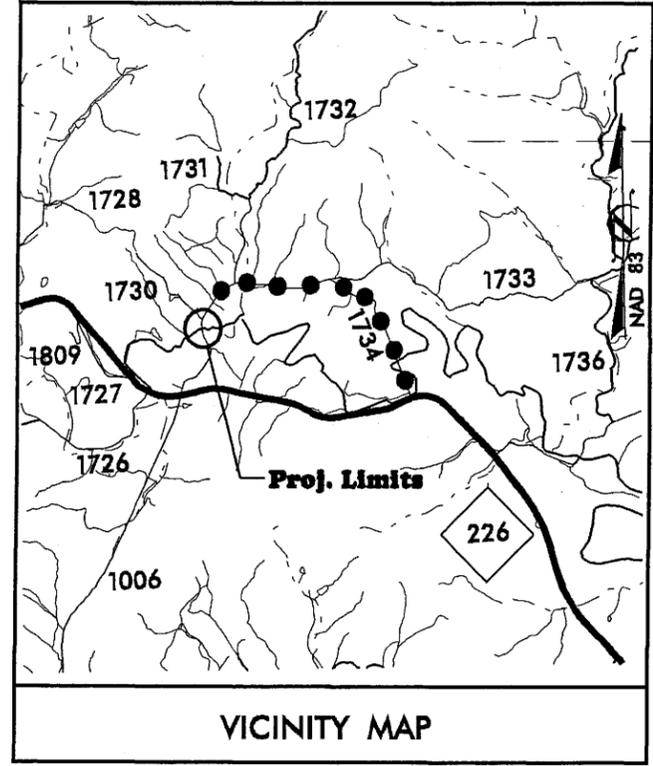
**LOCATION: REPLACEMENT OF BRIDGE NO. 202 ON SR 1733
(JONES TOWN ROAD) OVER FIRST BROAD RIVER**

**TYPE OF WORK: RESURFACING, PAVING, GRADING, DRAINAGE
STRUCTURE, AND STRUCTURE REMOVAL**

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
33607.1.1	BRZ-1733(13)	PE
33607.2.1	BRZ-1733(13)	ROW, UTIL

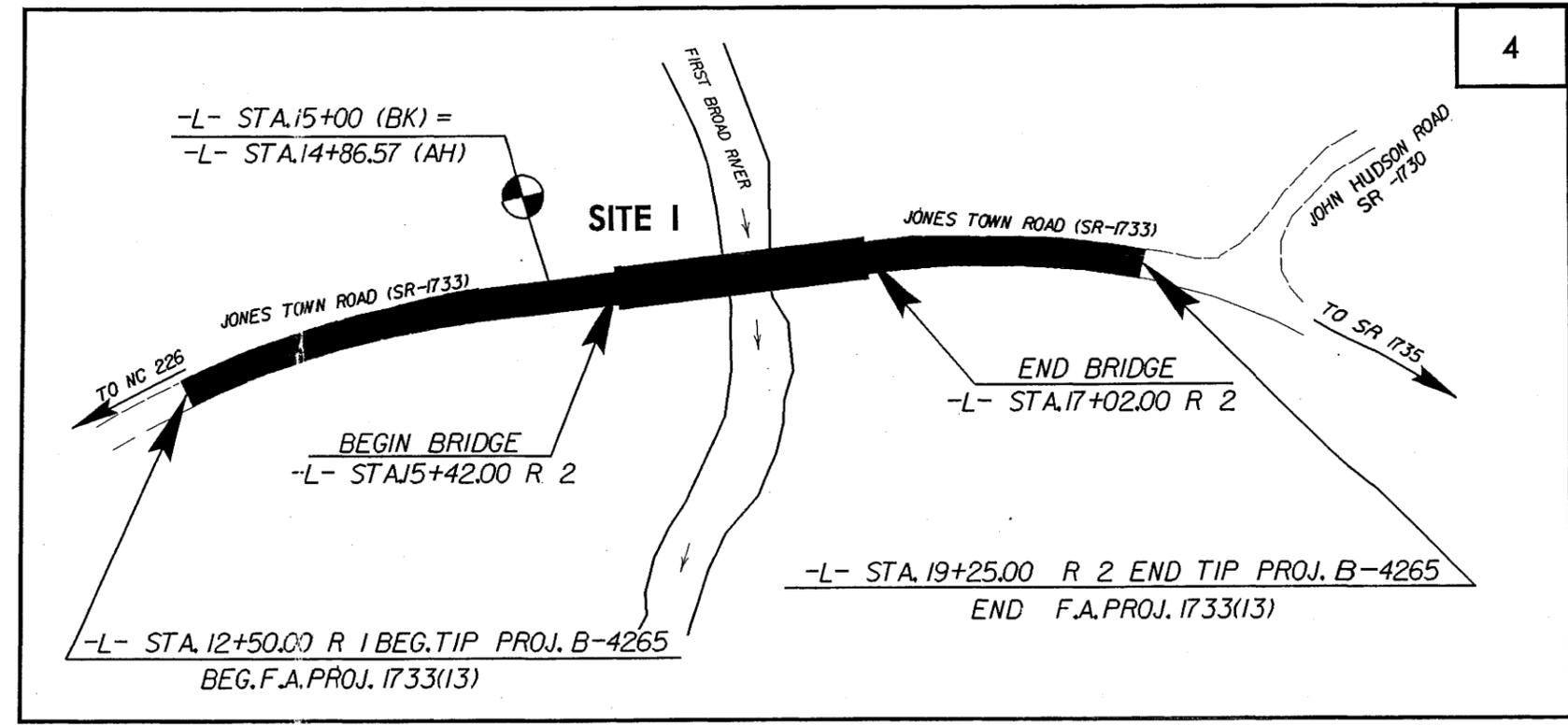


TIP PROJECT: B-4265



● ● ● OFF-SITE DETOUR

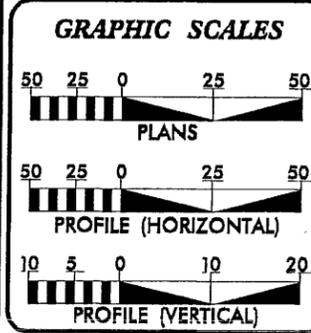
WETLAND PERMIT



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THIS LIMITS ESTABLISHED BY METHOD II

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
THIS PROJECT IS NOT A CONTROLLED ACCESS PROJECT

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 770	=	2006 YPD
ADT 1100	=	2025 YPD
DHV	=	10 %
D	=	2 %
T	=	1 % *
V	=	40 MPH
* TTST 1	DUAL 2	
FUNC. CLASS	=	LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4265	=	0.086 MI.
LENGTH STRUCTURE TIP PROJECT B-4265	=	0.03 MI.
TOTAL LENGTH OF TIP PROJECT B-4265	=	0.116 MI.

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

2002 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: DECEMBER 21, 2007	JIMMY GOODNIGHT, PE PROJECT ENGINEER
LETTING DATE: DECEMBER 16, 2008	TIM GOINS PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

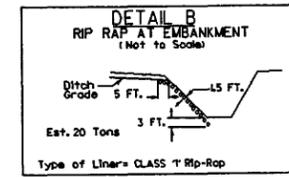
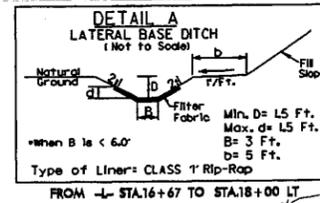
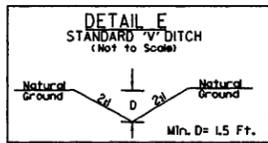
SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

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mshawn HY239382

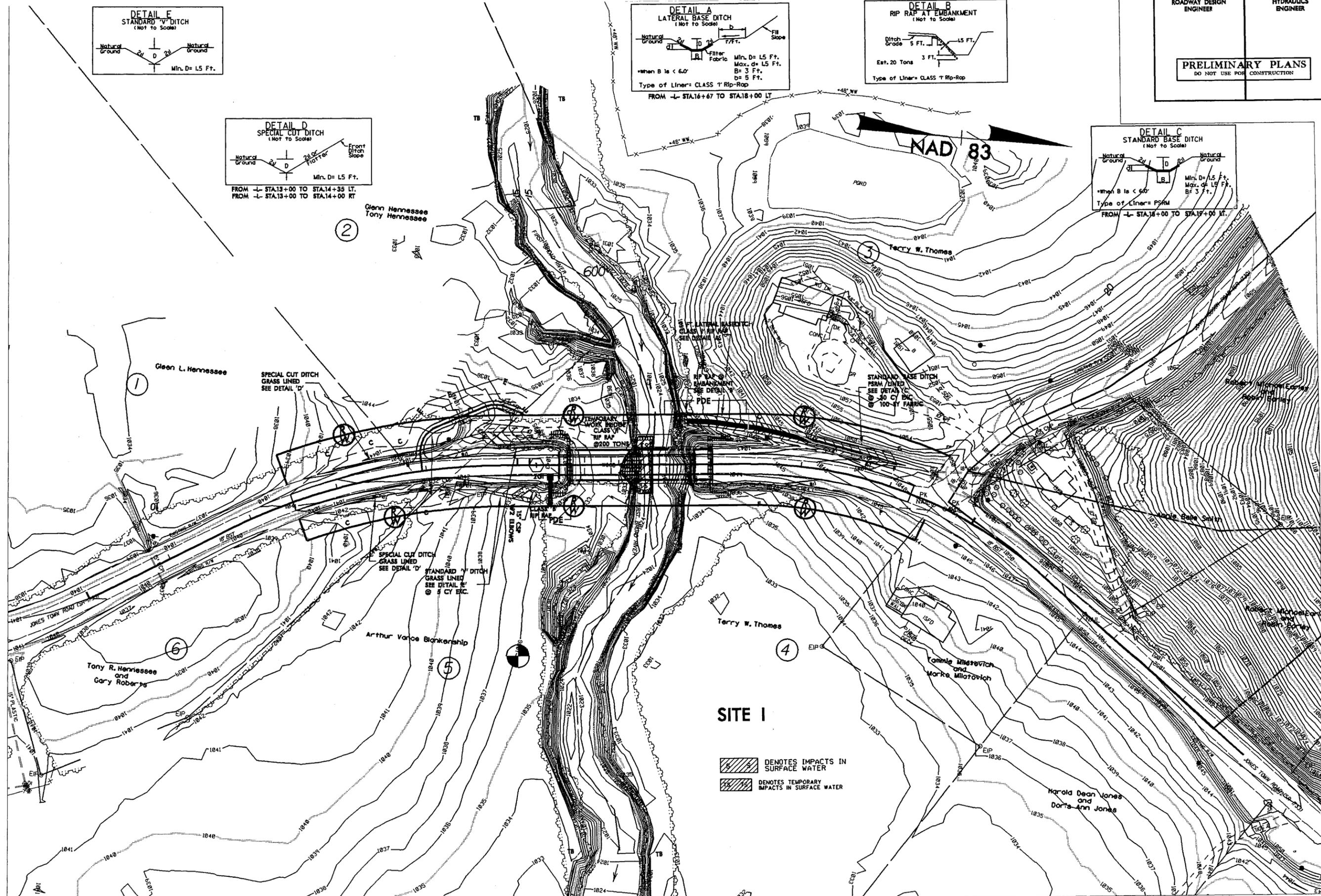
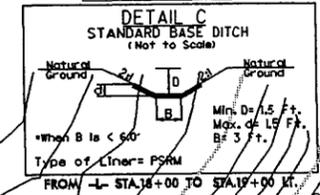
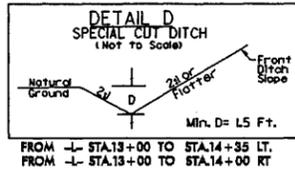
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ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

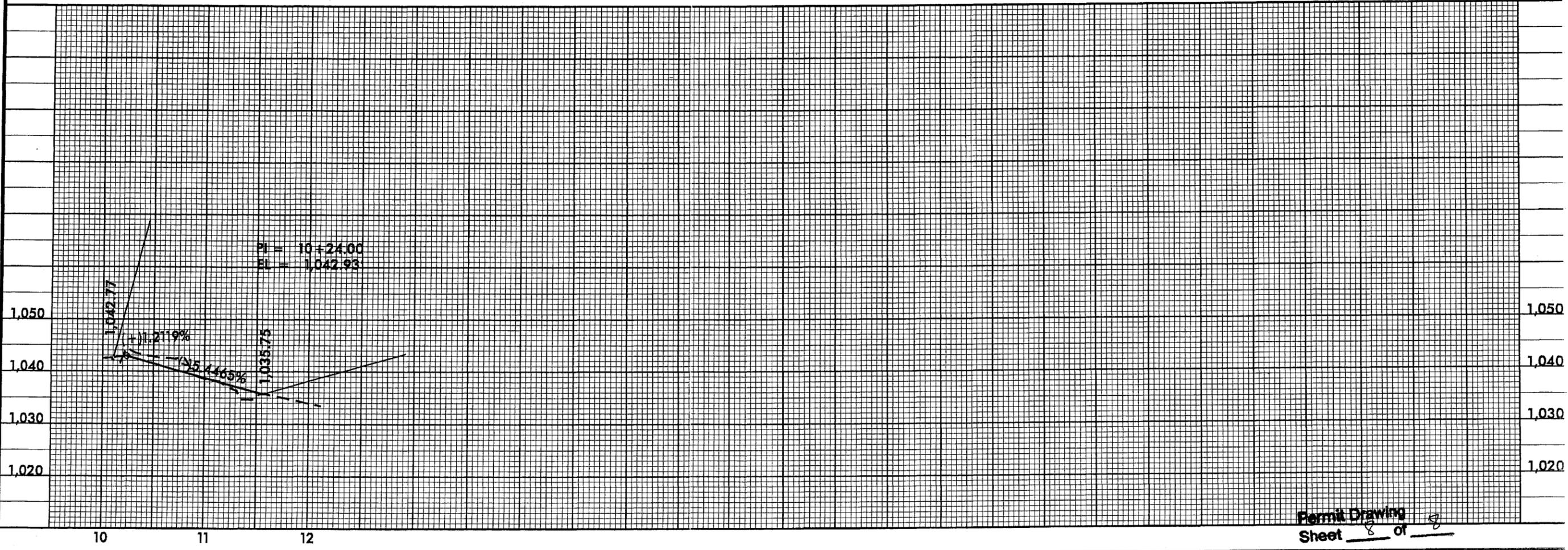
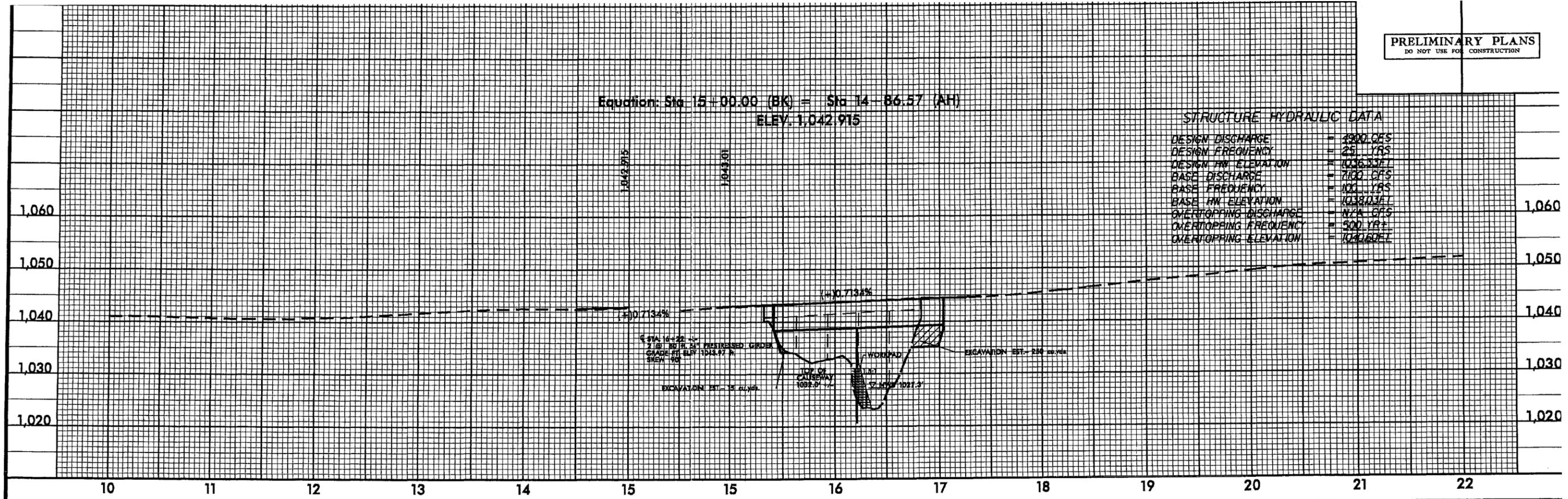


19-FEB-2008 09:45
rt:hyd:raulics\permits\13-b-4265_hyd_prm_wet.dgn
mcbrown

Equation: Sta 15+00.00 (BK) = Sta 14+86.57 (AH)
ELEV. 1,042.915

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 2900 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 1036.03 FT
BASE DISCHARGE	= 700 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1038.03 FT
OVERTOPPING DISCHARGE	= N/A CFS
OVERTOPPING FREQUENCY	= 500 YRS
OVERTOPPING ELEVATION	= 1042.60 FT



04-FEB-2008 13:18
r:\hydr-a\lics\permits\4265_hyd_prm-pl.dgn
at 1023382

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

RUTHERFORD COUNTY

LOCATION: REPLACEMENT OF BRIDGE NO. 202 ON SR 1733
(JONES TOWN ROAD) OVER FIRST BROAD RIVER

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4265	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33607.1.1	BRZ-1733(13)	PE	
33607.2.1	BRZ-1733(13)	ROW, UTIL	

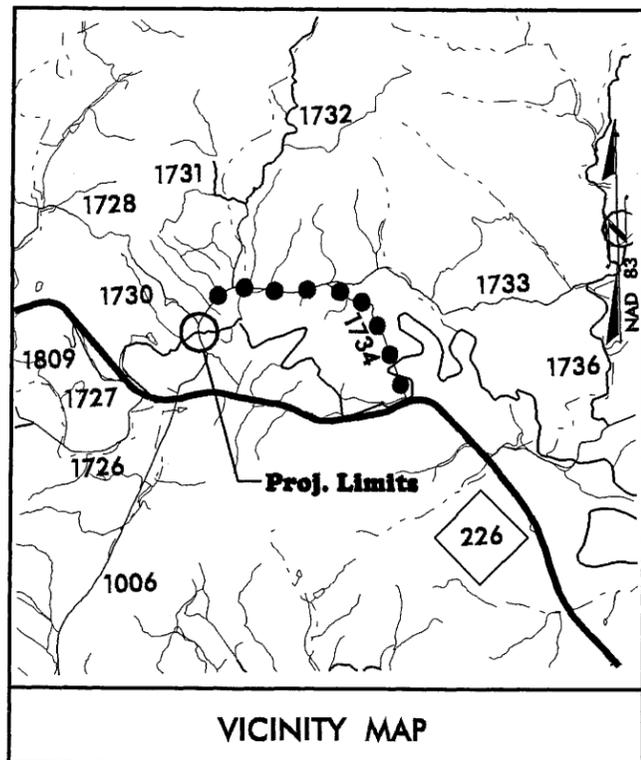
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FEB 06 2008

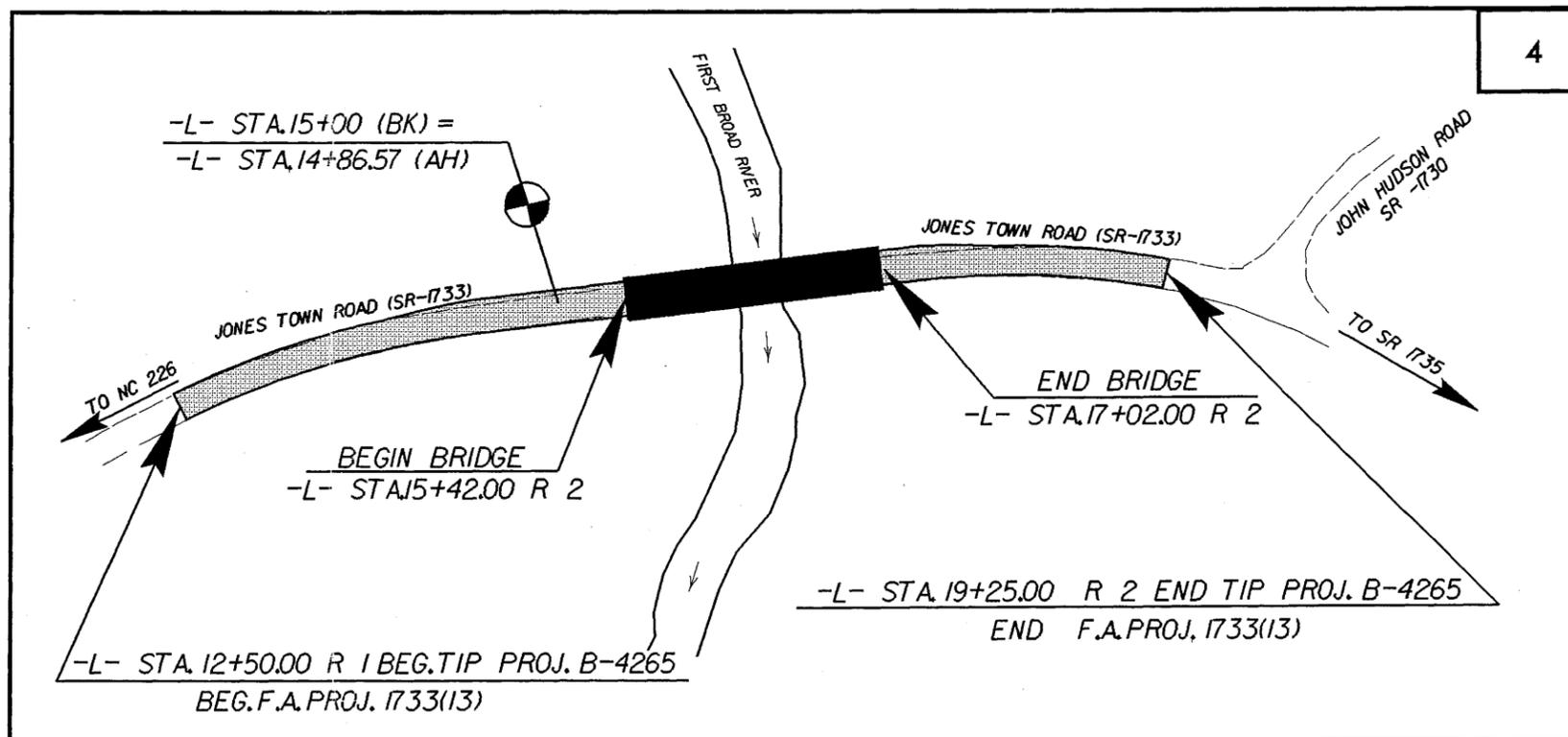
DIVISION OF HIGHWAYS
HYDRAULICS UNIT

TIP PROJECT: B-4265



VICINITY MAP

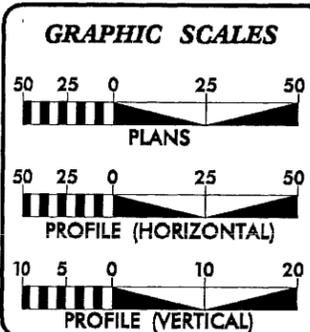
● — ● — ● OFF-SITE DETOUR



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THIS LIMITS ESTABLISHED BY METHOD II

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
THIS PROJECT IS NOT A CONTROLLED ACCESS PROJECT

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 770	=	2006 VPD
ADT 1100	=	2025 VPD
DHV	=	10 %
D	=	2 %
T	=	1 % *
V	=	40 MPH
* TTST 1	DUAL 2	
FUNC. CLASS	=	LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4265	=	0.085 MI.
LENGTH STRUCTURE TIP PROJECT B-4265	=	0.03 MI.
TOTAL LENGTH OF TIP PROJECT B-4265	=	0.115 MI.

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

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DECEMBER 21, 2007	JIMMY GOODNIGHT, PE PROJECT ENGINEER
LETTING DATE: DECEMBER 16, 2008	TIM GOINS PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

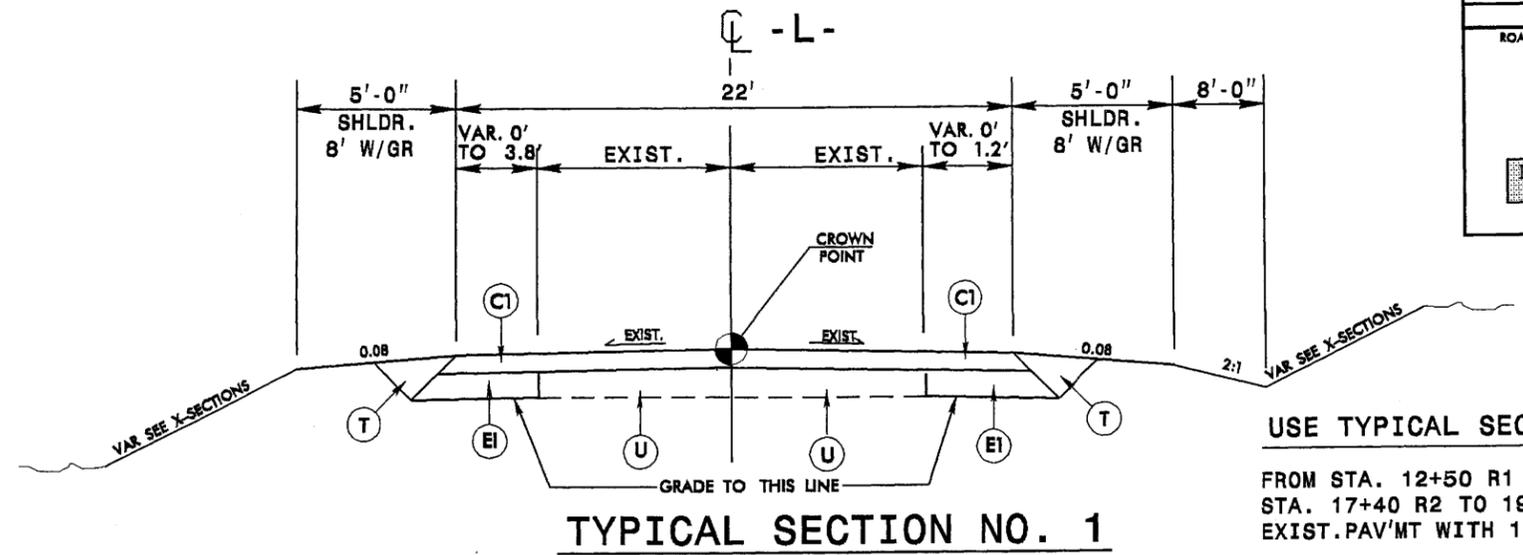
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WBS: 33607.2.1

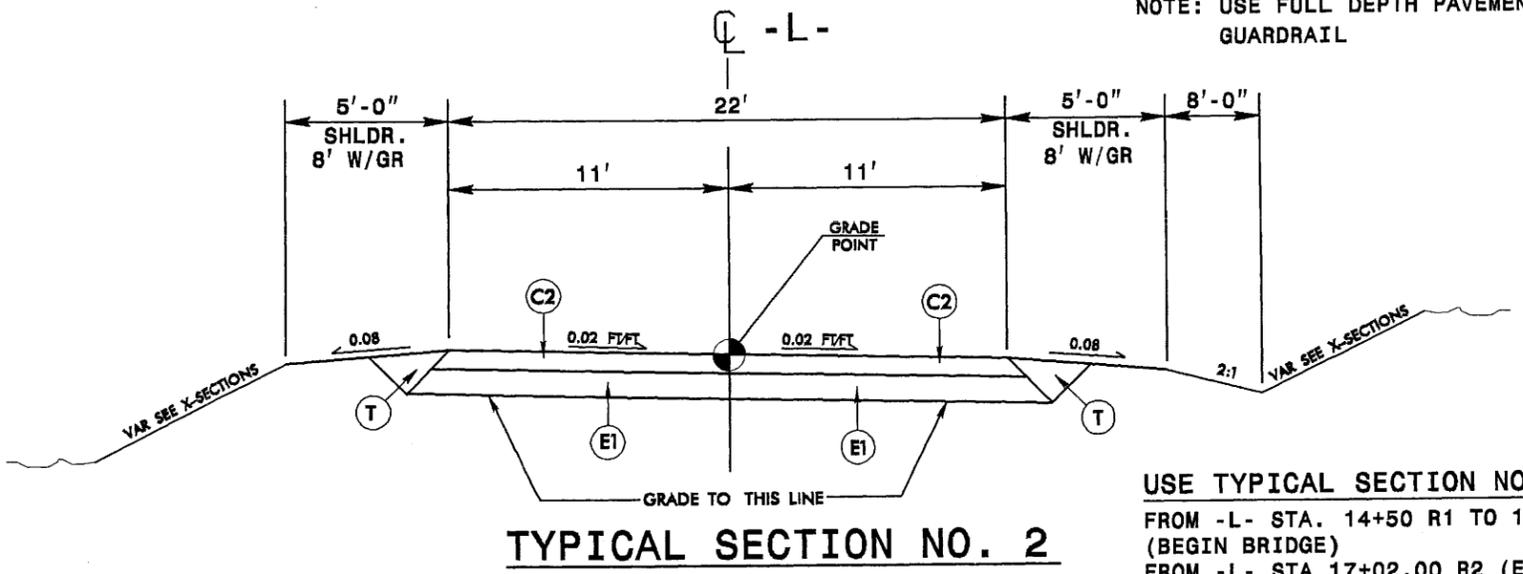
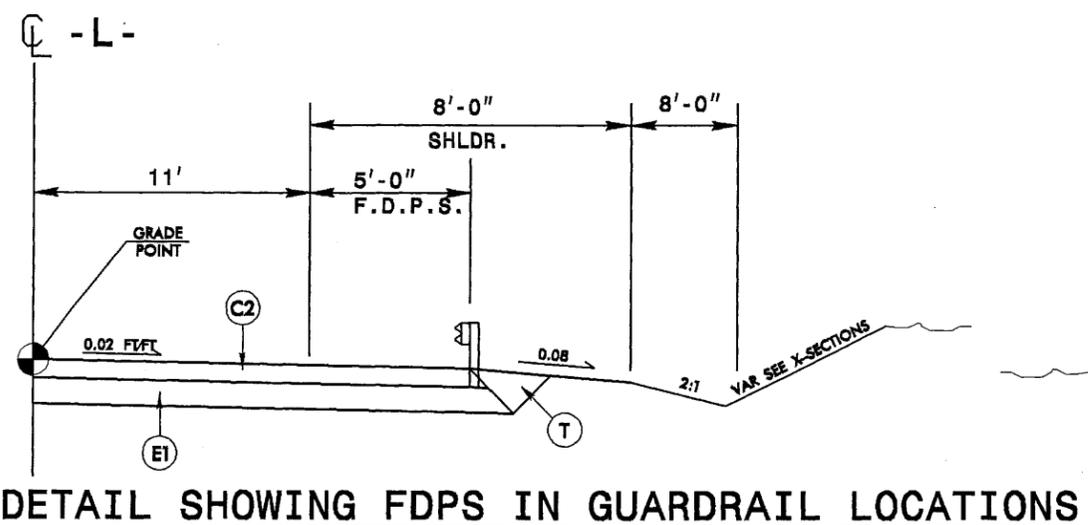
6/2/99

PROJECT REFERENCE NO. B-4265	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

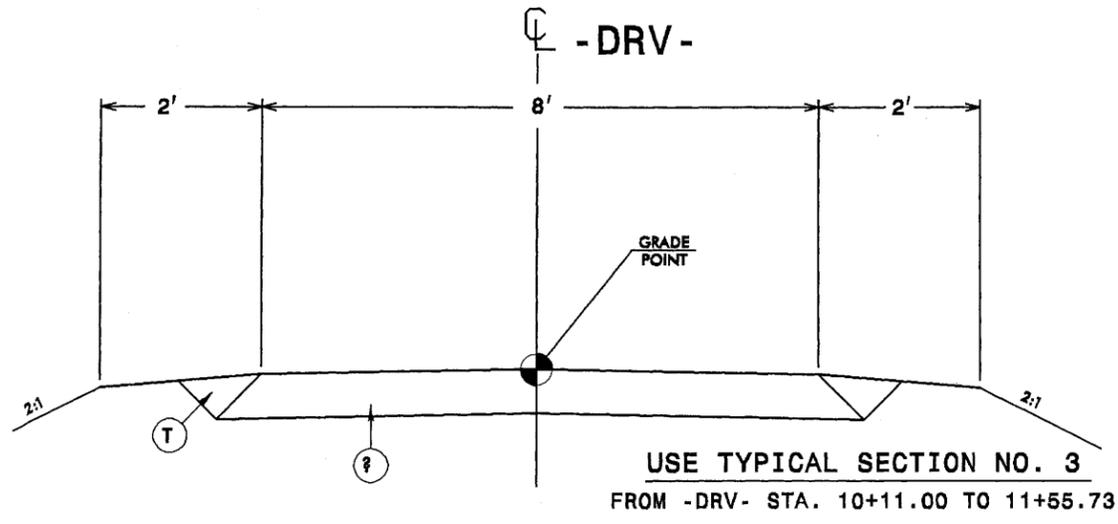
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5X, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2.5" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5X, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT



USE TYPICAL SECTION NO. 1
FROM STA. 12+50 R1 TO 14+50 R1 AND FROM STA. 17+40 R2 TO 19+25.00 R2 OVERLAY EXIST. PAV'MT WITH 1 1/4" (SF9.5A)
NOTE: USE FULL DEPTH PAVEMENT OUT TO GUARDRAIL

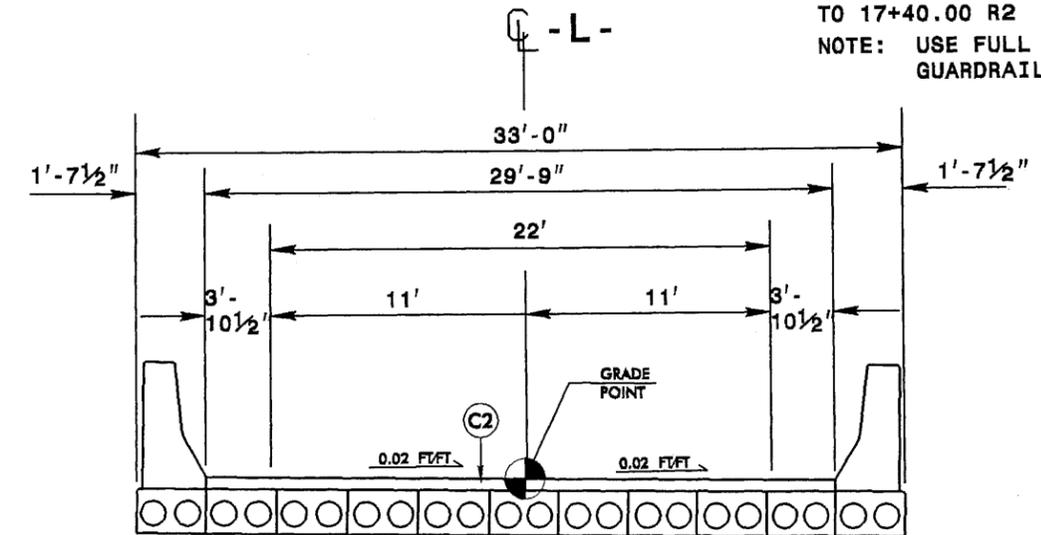


USE TYPICAL SECTION NO. 2
FROM -L- STA. 14+50 R1 TO 15+42.00 R2 (BEGIN BRIDGE)
FROM -L- STA 17+02.00 R2 (END BRIDGE) TO 17+40.00 R2
NOTE: USE FULL DEPTH PAVEMENT OUT TO GUARDRAIL



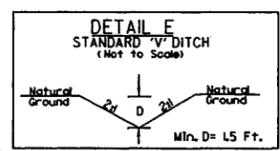
TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
FROM -DRV- STA. 10+11.00 TO 11+55.73



TYPICAL SECTION ON STRUCTURE
-L- STA. 15+42.00 R2 TO 17+02.00 R2
PRESTRESSED CONCRETE CORED SLAB UNIT

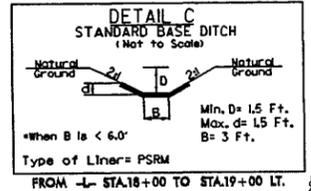
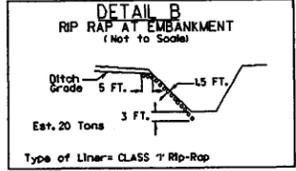
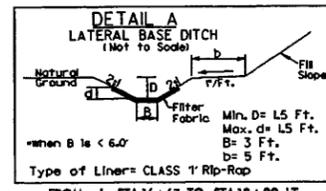
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r:\work\proj\4265\rdy\typ.dgn



L

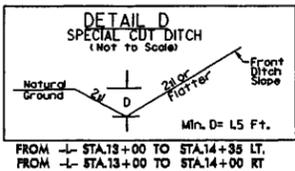
PI Sta 13+31.69	PI Sta 19+28.71
$\Delta = 26^{\circ} 02' 56.2''$ (RT)	$\Delta = 42^{\circ} 40' 26.6''$ (RT)
D = 8' 2" 51.7"	D = 11' 56" 11.8"
L = 311.43'	L = 357.51'
T = 158.45'	T = 187.50'
R = 685.00'	R = 480.00'

SE = SEE PLANS
RO = SEE PLANS



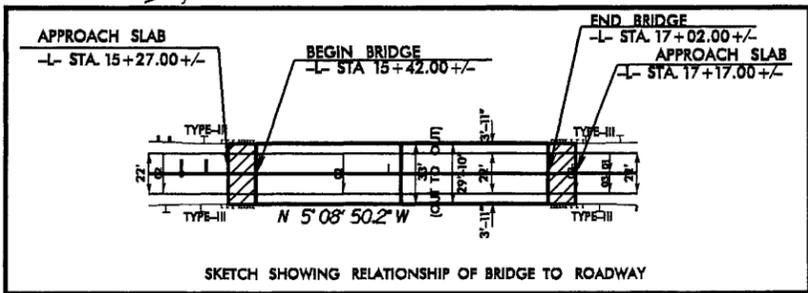
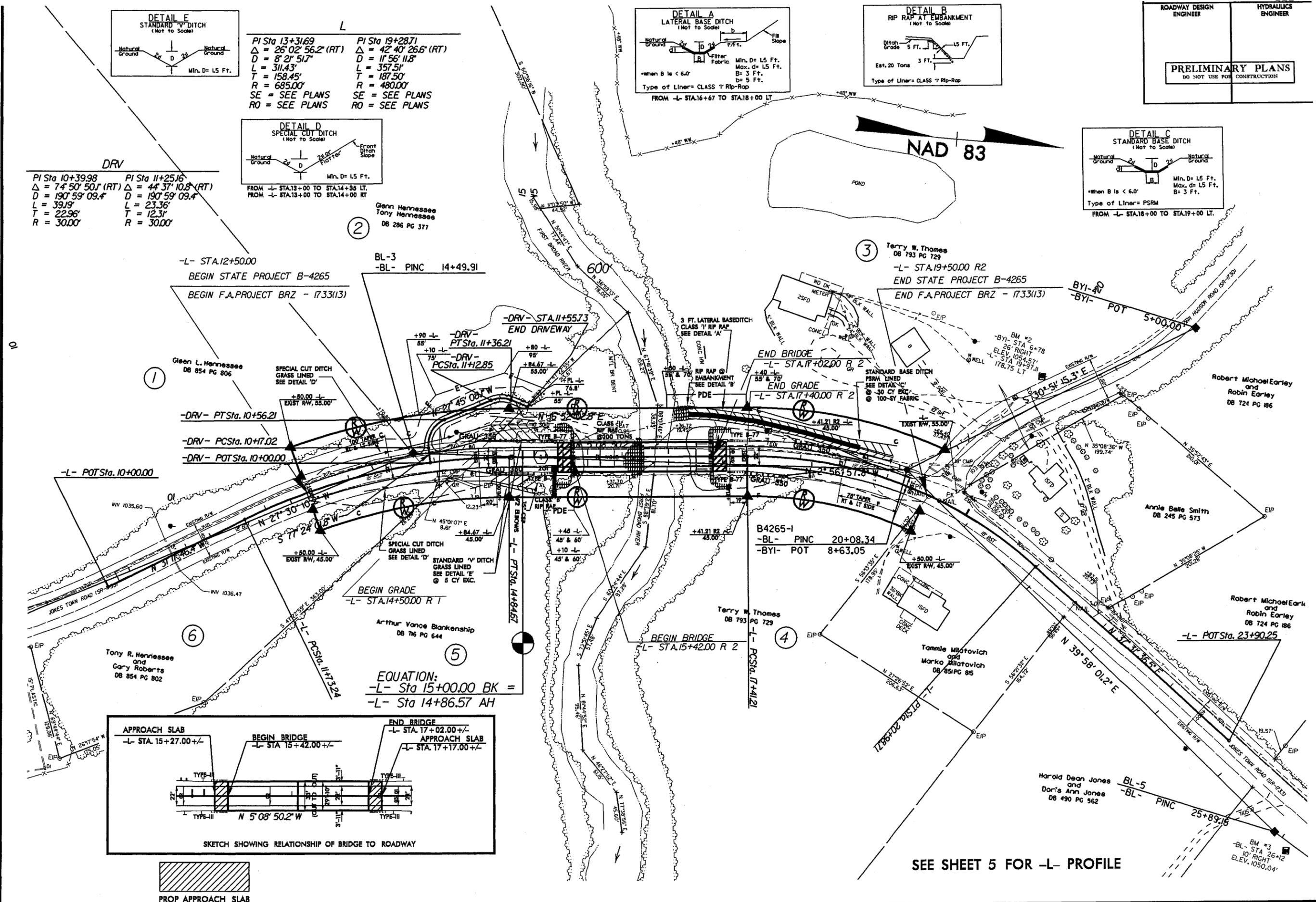
DRV

PI Sta 10+39.98	PI Sta 11+25.16
$\Delta = 74^{\circ} 50' 50.1''$ (RT)	$\Delta = 44^{\circ} 37' 10.8''$ (RT)
D = 190' 59" 09.4"	D = 190' 59" 09.4"
L = 39.19'	L = 23.36'
T = 22.96'	T = 12.31'
R = 30.00'	R = 30.00'



FROM -L- STA.13+00 TO STA.14+35 LT.
FROM -L- STA.13+00 TO STA.14+00 RT

Glen Hennessee
Tony Hennessee
DB 286 PG 377



EQUATION:
-L- Sta 15+00.00 BK =
-L- Sta 14+86.57 AH

SEE SHEET 5 FOR -L- PROFILE

5/28/99

PROJECT REFERENCE NO. B-4265	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

BM1 ELEVATION = 1045.25
 N 655895 E 1181397
 BL STATION 7+44 60' RIGHT
 RR SPIKE IN 24 SWEETGUM

BEGIN GRADE
 -L- STA. 14+50.00 R 1
 ELEV. = 1042.558'

-L-

Equation: Sta 15+00.00 (BK) = Sta 14+86.57 (AH)
 ELEV. 1,042.915

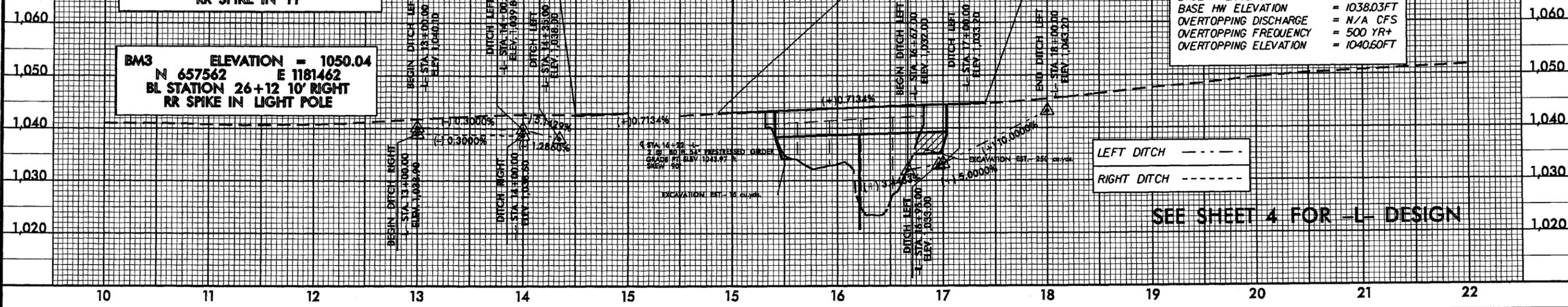
END GRADE
 -L- STA. 17+40.00 R 2
 ELEV. = 1044.72

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 4900 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 1036.33FT
BASE DISCHARGE	= 7100 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1038.03FT
OVERTOPPING DISCHARGE	= N/A CFS
OVERTOPPING FREQUENCY	= 500 YR+
OVERTOPPING ELEVATION	= 1040.60FT

BM2 ELEVATION = 1054.57
 N 657248 E 1180952
 BY1 STATION 6+78 26' RIGHT
 L STATION 19+97.11' LEFT
 RR SPIKE IN PP

BM3 ELEVATION = 1050.04
 N 657562 E 1181462
 BL STATION 26+12 10' RIGHT
 RR SPIKE IN LIGHT POLE



LEFT DITCH - - - - -
 RIGHT DITCH - - - - -

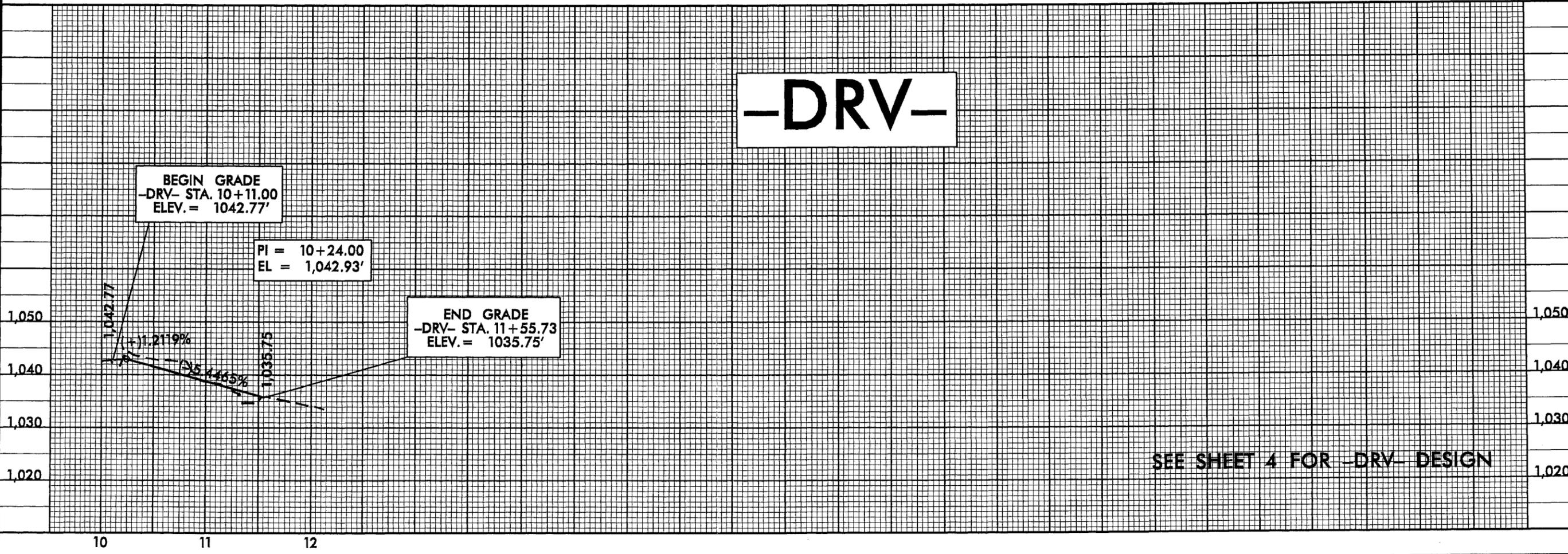
SEE SHEET 4 FOR -L- DESIGN

-DRV-

BEGIN GRADE
 -DRV- STA. 10+11.00
 ELEV. = 1042.77'

PI = 10+24.00
 EL = 1,042.93'

END GRADE
 -DRV- STA. 11+55.73
 ELEV. = 1035.75'



SEE SHEET 4 FOR -DRV- DESIGN

05-FEB-2008 14:42 C:\m4265-rdy-pl1.dgn