

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT SECRETARY

January 15, 2008

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

ATTENTION:

Mr. Steve Lund

NCDOT Coordinator

SUBJECT:

Application for NW 13, 33, and 12 Application for the replacement of Bridge No. 79 over Hildebran Creek on SR 1156 in Catawba County, Federal Aid Project No. BRZ-1156 (2), State Project No. 8.2792101, WBS

Element33423.1.1, TIP No. B-4059.

Dear Sir:

Please see the enclosed PCN, Permit Drawings and Design plans for the above referenced project. A Categorical Exclusion (and ROW Consultation) was completed for this project in June 2006 and distributed shortly thereafter. Additional copies are available upon request. NCDOT proposes to replace the existing 41-foot long bridge, No. 79 with a new 55-foot long bridge. There will be 81 linear feet of permanent impacts and 0.01 acre of temporary impacts incurred from the construction of this project. Traffic will be detoured offsite.

# IMPACTS TO WATERS OF THE UNITED STATES

# General Description:

The single water resource impacted for project B-4059 is Hildebran Creek. Hildebran Creek is located in the Catawba River Basin (Division of Water Quality (DWQ) subbasin 03-08-35) and is approximately 12 feet wide and 3 inches deep within the project area. The DWO Index number for this section of Hildebran Creek is 11-129-5-3 and the Hydrological Cataloguing Unit is 03050102. The DWO classifies Hildebran Creek as "C". Within the project area, Hildebran Creek is not listed as a 303(d) water. There are no 303(d) waters within a mile downstream of the project area. No High Quality Waters (HQW), Water Supplies (WS-I or WSII), or Outstanding Resource Waters (ORW) occur within one mile of the project study area. There are no wetlands within the project

TELEPHONE: 919-715-1334 FAX: 919-715-5501

WEBSITE: WWW.NCDOT.ORG

LOCATION: PARKER LINCOLN BUILDING. 2728 CAPITAL BLVD. RALEIGH NC 27604

study area.

# Permanent Impacts:

There will be 81 linear feet of permanent stream impacts to Hildebran Creek resulting from bank stabilization from riprap at the output ends of three new lateral ditches.

# **Temporary Impacts:**

There will be a total of 0.01 acre of temporary impacts to Hildebran Creek resulting from temporary fill needed for the removal of existing abutments.

# **Utility Impacts:**

Due to the relocation of a 12" diameter ductile iron water line, excavation of the bottom of the stream of approximately 3' wide and 13' in length will be required; resulting in <0.01 ac of temporary jurisdictional impacts. The excavated material will be placed back in the streambed after the proposed water line is installed.

# **Bridge Demolition:**

The existing bridge's superstructure consists of asphalt over wood with steel supports and vertical abutments. It should be possible to remove the bridge with no resulting debris in Hildebran Creek based on standard demolition practices. The old timber substructure of Bridge No. 79 is fifty years old, approaching the end of its useful life. The substructure consists of timber caps and pile on timber bulkheads. The superstructure consists of a timber deck on steel I-beams. All guidelines for bridge demolition and removal will be followed in addition to Best Management Practices (BMPs) for the Protection of Surface Waters and BMPs for Bridge Demolition and Removal.

# 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 September 28, 2007, the United States Fish and Wildlife Service (USFWS) lists two federally protected species for Catawba County (Table 1). The Bald Eagle has been de-listed from the Endangered Species Act as of August 8, 2007 but is still protected under the Bald and Golden Eagle Act. There was no suitable habitat in the project study area for either listed species; thus Dwarf-flowered heartleaf is No Effect.

Table 1. Federally Protected Species for Catawba County

Common Name	Scientific Name	Status	Survey Notes	Biological Conclusion
Bald Eagle	Haliaeetus leucocephalus	Т	No Habitat	De-listed
Dwarf-flowered heartleaf	Hexastylis naniflora	Т	No Habitat	No Effect

# AVOIDANCE, MINIMIZATION AND MITIGATION

# Avoidance and Minimization:

Avoidance examines all appropriate and practicable possibilities of averting impacts to "Waters of the United States." The NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize jurisdictional stages; minimization measures were incorporated as part of the project design. In addition, Best Management Practices will be followed as outlined in "NCDOT's Best Management Practices for Construction and Maintenance Activities".

- Open Floodplain approximately 15 feet (creating/enlarging) therefore allowing better hydrologic connectivity
- Traffic will be detoured offsite during the construction period.

# Mitigation:

NCDOT proposes no mitigation for the 81 linear feet of permanent impacts to Hildebran Creek because bank stabilization is not considered a loss of waters of the United States.

# Schedule:

The project schedule calls for a May 20, 2008 Let date and a review date of **April 1, 2008**. The date of availability for construction is on June 1, 2008.

# **REGULATORY APPROVALS**

# Section 404 Permit:

It is anticipated that the temporary impacts to Hildebran Creek will be authorized under Section 404 Nationwide Permit 33 (Temporary Construction Access and Dewatering). We are, therefore, requesting the issuance of a Nationwide Permit 33. A Nationwide Permit 12 (Utility Line Activities) is also needed in order to install a water line within the project study area. Other aspects of this project will be covered by a NW Permit 13 (Bank Stabilization) for the placement of riprap at the end of lateral base ditches.

# Section 401 Permit:

We anticipate 401 General Certification numbers 3689, 3688 and 3699 will apply to this project. All general conditions of the General Certification will be adhered to, therefore we are not requesting concurrence from the DWQ. In accordance with 15A NCAC 2H .0501(a) We are submitting two copies of this permit application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for your records.

Comments from the North Carolina Wildlife Resources Commission (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.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Jennifer Harrod at <a href="mailto:jwharrod@dot.state.nc.us">jwharrod@dot.state.nc.us</a> or (919) 715-7241.

Sincerely, fusk

Gregory J. Thorpe, Ph.D., Environmental Management Director

Project Development and Environmental Analysis Branch

cc:

W/attachment

Mr. John Hennessy, NCDWQ (2 Copies)

Ms. Marella Buncick, USFWS

Ms. Marla Chambers, NCWRC

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics

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

Mr. Victor Barbour, P.E., Project Services Unit

Mr. Mark Staley, Roadside Environmental

Mr. M.L. Holder, P.E., Division Engineer

Ms. Trish Simon, DEO

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

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

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

Mr. Scott McLendon, USACE, Wilmington

Gregory Blakeney, PDEA Project Planning Engineer

Offic	e Us	e Only:			Form Version March 05
USA	CE A	action ID No.	D	WQ No	
			ot applicable to this project,	olease enter "Not Applica	ble" or "N/A".)
_	_				
I.	Pr	ocessing			
	1.	Check all of the approve  Section 404 Permit  Section 10 Permit  401 Water Quality C		Riparian or Watersh Isolated Wetland Pe	
	<u>2.</u>	Nationwide, Regional of	r General Permit Numb	er(s) Requested: N	ationwide 13,33 and 12
	3.	If this notification is sol is not required, check he		ause written approva	for the 401 Certification
	4.				am (NCEEP) is proposed P, complete section VIII,
	5.		within a North Carolii	na Division of Coast	counties (listed on page cal Management Area of eck here:
II.	Aŗ	oplicant Information			
	1.	Owner/Applicant Inform Name: Mailing Address:			Management Director
					<del></del>
		Telephone Number: <u>(9</u> E-mail Address: <u>jwhan</u>		Fax Number: (919	) 733-9794
	2.	Agent/Consultant Informust be attached if the ANAME:  Company Affiliation:  Mailing Address:	Agent has signatory aut	hority for the owner/a	
				A A PARAMETER AND A STATE OF THE ASSESSMENT AND A STATE OF THE ASS	
		Telephone 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: Bridge No. 79 over Hildebran Creek on Sr 1156
2.	T.I.P. Project Number or State Project Number (NCDOT Only): B-4059
3.	Property Identification Number (Tax PIN): N/A
4.	Location  County: Catawba Nearest Town: Newton  Subdivision name (include phase/lot number): N/A  Directions to site (include road numbers/names, landmarks, etc.): Sr.1156, West15 <sup>th</sup> Street/Laffon Rd.
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): 35'40'44.80 °N 81'13'55.54 °W
6.	Property size (acres): N/A
7.	Name of nearest receiving body of water: Clark Creek
	River Basin: Catawba  (Note – this must be one of North Carolina's seventeen designated major river basins. The River Basin map is available at <a href="http://h2o.enr.state.nc.us/admin/maps/">http://h2o.enr.state.nc.us/admin/maps/</a> .)  Describe the existing conditions on the site and general land use in the vicinity of the project
10.	at the time of this application: Residential, Disturbed Urban Area, Forested: stream banks  Describe the overall project in detail, including the type of equipment to be used: Bridge  No. 79 will be replaced with a single-span bridge that is 55 feet long. Standard bridge
	replacement equipment such as bulldozers, cranes etc. will likely be used.

11. Explain the purpose of the proposed work: NCDOT Bridge Maintenance Unit records indicate Bridge No. 79 has a sufficiency rating of 29.4 out of a possible 100 for a new
structure. The bridge is considered structurally deficient and functionally obsolete due to a structural appraisal of 2 out of 9.
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. N/A
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.  N/A

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

IV.

V.

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: There will be 81 linear feet of permanent stream impacts to Hildebran Creek resulting from bank stabilization, with associated lateral ditches. Riprap will be at the output ends of the three new ditches. There will be a total of 0.01 acre of temporary impacts to Hildebran Creek resulting from temporary fill needed for the removal of existing abutments. There will be jurisdictional impacts

associated with the relocation of utilities for this project. The stream impact due to water line installation involves excavation of the bottom of the stream to allow installation of a proposed 12" diameter ductile iron water line. Excavation will be placed back in the streambed after the proposed water line is installed.

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)
No Wetlands					
	Total	Wetland Impact (acres)	1	L	

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)
1	Hildebran	Permanent	Perennial	12'	81	0.02
1	Hildebran	Temporary	Perennial	12'	31	0.01
	Total Stream In	npact (by length and a	creage)		112	0.03

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

		Total Op	en Water Impact (acres)			0
			44	1.1		
6. Lis			all Waters of the U.S	. resulting from		7
	Stream	Impact (acres):			0.02 (perm) 0.01 (temp)	
	Wetland	d Impact (acres)	•		0.01 (temp)	-
		ater Impact (ac			0	
			of the U.S. (acres)		0.02 (perm)	1
			,		0.01 (temp)	
	Total S	ream Impact (li	near feet):		112 (perm +	
					temp)	]
			ect (acres or linear			
8. Po If inc be	nd Creation construction cluded above described h	of a pond is e in the wetlandere and illustrated ated in (check al	proposed, associated and stream impacted on any maps included that apply):	d wetland and sections. Also ided with this applands	l stream impacts so, the proposed ponpplication.	should be nd should wetlands
8. Pool If income be Pool De	nd Creation construction described had to be crescribe the	of a pond is e in the wetland ere and illustrate ated in (check almethod of cons	proposed, associated and stream impacted on any maps included that apply):	d wetland and sections. Also ided with this applands	l stream impacts so, the proposed ponpplication.	should be nd should wetlands
8. Po If inc be Po De	nd Creation construction described had to be crescribe the two-down va	of a pond is e in the wetland ere and illustrate ated in (check almethod of consider or spillway,	proposed, associated and stream impacted on any maps included that apply):	d wetland and sections. Also ded with this auplands [/embankment,	stream impacts on the proposed portagon.  stream stream stream stream excavation, insta	should be nd should wetlands llation of
8. Pool of the second of the s	nd Creation construction cluded above described had to be creaseribe the aw-down value oposed use all stormwaters.	of a pond is e in the wetland ere and illustrate ated in (check almethod of constitute or spillway, or purpose of per requirement,	proposed, associated and stream impacted on any maps included that apply):  struction (e.g., dametc.):  cond (e.g., livestock etc.):	d wetland and sections. Also ded with this a liplands [watering, irrig	l stream impacts of the proposed por application.  stream excavation, instagation, aesthetic, tr	should be nd should wetlands llation of
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8. Pool If income pool of the property of the	nd Creation construction cluded above described had to be creaseribe the aw-down value oposed use tal stormwaterent land u	of a pond is e in the wetland ared in (check almethod of constitute or spillway, or purpose of per requirement, se in the vicinity	proposed, associated and stream impacted on any maps included that apply):  struction (e.g., dametc.):  cond (e.g., livestock etc.):	d wetland and sections. Also ded with this applands [/embankment, watering, irrig	l stream impacts of the proposed por application.  stream excavation, instagation, aesthetic, tr	should be nd should wetlands llation of
8. Pool If income be pool of the property of t	nd Creation construction cluded above described had to be creaseribe the aw-down value of waters!	of a pond is e in the wetland ated in (check almethod of constitute or spillway, or purpose of per requirement, se in the vicinity ned draining to p	proposed, associated and stream impacted on any maps included that apply):  struction (e.g., dametc.):  cond (e.g., livestock etc.):  y of the pond:	d wetland and sections. Also ided with this applands [watering, irriger	I stream impacts on the proposed postapplication.  stream carrier carr	should be nd should wetlands llation of

# 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.

NCDOT proposes no mitigation for the 81 linear feet of permanent impacts to Hildebran Creek because they are not considered to be loss of waters of the United States,

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 <a href="http://h2o.enr.state.nc.us/wrp/index.htm">http://h2o.enr.state.nc.us/wrp/index.htm</a>. 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): 0	
Amount of buffer mitigation requested (square feet): 0	
Amount of Riparian wetland mitigation requested (acres): 0	

			parian wetland mit l wetland mitigation			
IX.	Environment	al Documei	ntation (required	by DWQ)		
		project invo leral/state) l	_	`	eral/state/local) fi	unds or the use of
	requirement Note: If	nts of the N you are not	fational or North sure whether a	Carolina Enviror NEPA/SEPA do	nmental Policy A cument is requir	ent pursuant to the ct (NEPA/SEPA)? red, call the SEPA ttal documentation.
			ent review been t EPA or SEPA fina			use? If so, please No
<b>X.</b>	Proposed Imp	oacts on Rij	parian and Water	shed Buffers (re	equired by DWC	<b>)</b> )
	justification for and must be comap, whether Regional Officapplicant's dis  1. Will the property (Neuse), 1 2B .0250 identify	or these impalearly idention or not import impact i	acts in Section VII fiable on the accordances are proposed included as approact protected ripar 2B .0259 (Tar-Pam Rules and Wat	above. All prompanying site plant to the buffers. Photogram buffers identialico), 15A NCA er Supply Buffers \( \s \) No \( \s \)	posed impacts man. All buffers in Correspondence raphs may also stiffed within 15A C 02B .0243 (Car Requirements)	must also provide ust be listed herein, nust be shown on a ce from the DWQ be included at the A NCAC 2B .0233 tawba) 15A NCAC 1, or other (please the riperion buffers
	•	nitigation is	-	<del>-</del>		he riparian buffers. on by applying the
		Zone*	Impact (square feet)	Multiplier	Required Mitigation	
		1		3 (2 for Catawba)		
		2		1.5		
		Total	20.6	and the second second		
			30 feet perpendicular from e edge of Zone 1.	om the top of the hear t	bank of channel; Zone.	2 extends an
	Donation Riparian E	of Property Suffer Resto	, Riparian Buffer	Restoration / I ease attach all a	Enhancement, or	n is proposed (i.e., Payment into the nation as identified

# 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
	the property. If percent impervious surface exceeds 20%, please provide calculations demonstrating total proposed impervious level
	All stormwater from this bridge replacement project shall be directed to lateral base ditches which will allow for storm water treatment before discharging into Hildebran Creek.
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 \( \square \) No \( \square \)
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 <a href="http://h2o.enr.state.nc.us/ncwetlands">http://h2o.enr.state.nc.us/ncwetlands</a> . If no, please provide a short narrative description:  This project is limited to a bridge replacement. No indirect or cumulative impacts are anticipated
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). N/A
	E. J. Luck 1.15.08
	Applicant/Agent's Signature Date
	(Agent's signature is valid only if an authorization letter from the applicant is provided.)

SITE LOCATION
IN CATAWBA COUNTY

N. C. DEPT. OF TRANSPORTATION

DIVISION OF HIGHWAYS

CATABWA COUNTY

formit Drawing

SHEET 2 OF

BRIDGE NO.79 OVER HILDEBRAN CREEK ON SR 1156

PROJECT: 53425.1.1 (B-4059)

7 // 12 // 07

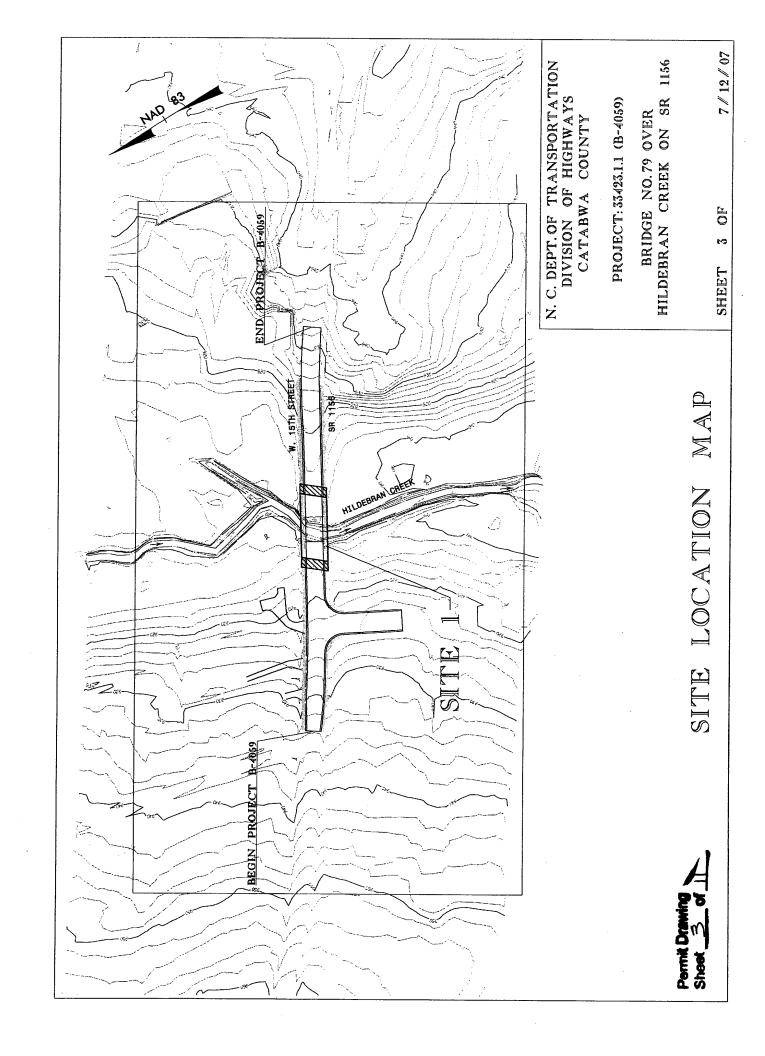
#### WETLAND LEGEND -WLB----- WETLAND BOUNDARY PROPOSED BRIDGE WLB PROPOSED BOX CULVERT WETLAND DENOTES FILL IN PROPOSED PIPE CULVERT WETLAND 12"-48" PIPES (DASHED LINES DENOTE DENOTES FILL IN EXISTNG STRUCTURES) 54" PIPES SURFACE WATER & ABOVE DENOTES FILL IN SURFACE WATER £ (POND) SINGLE TREE DENOTES TEMPORARY FILL IN WETLAND WOODS LINE DENOTES EXCAVATION IN WETLAND DRAINAGE INLET DENOTES TEMPORARY SURFACE WATER ROOTWAD **IMPACTS** DENOTES PERMANENT SURFACE WATER IMPACTS 200 RIP RAP DENOTES MECHANIZED CLEARING ADJACENT PROPERTY OWNER FLOW DIRECTION 5 OR PARCEL NUMBER IF AVAILABLE ΤB \_ TOP OF BANK WE EDGE OF WATER PREFORMED SCOUR HOLE (PSH) \_C\_\_\_ PROP. LIMIT OF CUT <u>-F\_</u>\_\_ PROP.LIMIT OF FILL - PROP. RIGHT OF WAY LEVEL SPREADER (LS) - NG --- NATURAL GROUND ---<sup>PL</sup>--- PROPERTY LINE -TDE -- TEMP. DRAINAGE GRASS SWALE EASEMENT -PDE --- PERMANENT DRAINAGE EASEMENT --EAB-- EXIST. ENDANGERED ANIMAL BOUNDARY --EPB-- EXIST. ENDANGERED PLANT BOUNDARY .\_.....V...... WATER SURFACE N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS LIVE STAKES CATABWA COUNTY BOULDER PROJECT: 33423.1.1 (B-4059) CORE FIBER ROLLS BRIDGE NO.79 OVER HILDEBRAN CREEK ON SR 1156 Permit Drawing

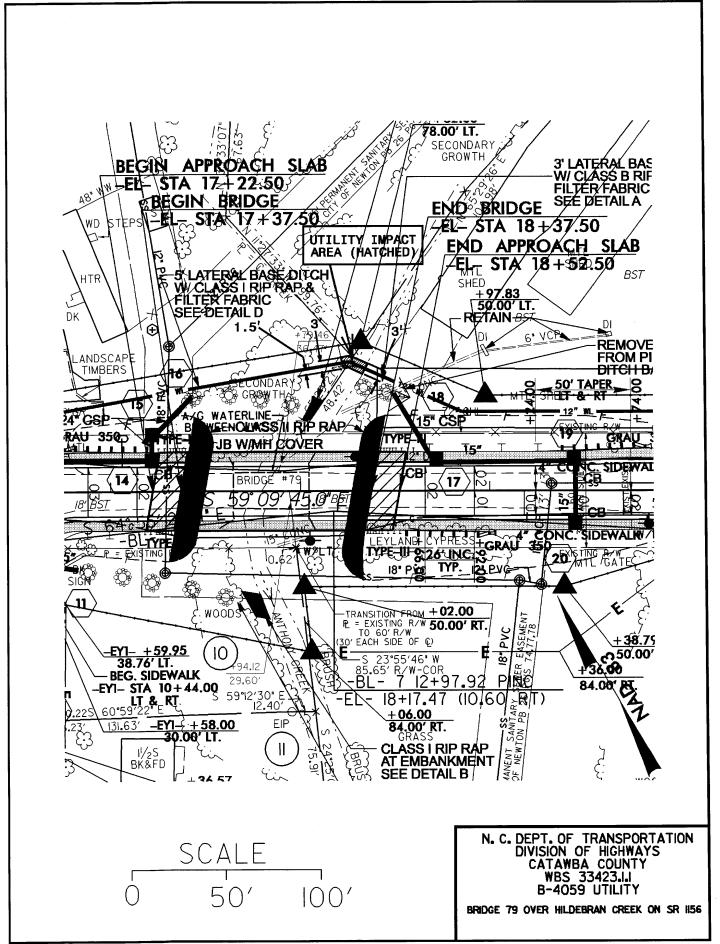
SHEET

4 OF

7 // 12 // 07

Sheet





Permit Drawing Sheet \_\_\_\_ of \_\_\_\_

# PROPERTY OWNERS

ADDRESS	804 W. 15TH STREET, NEWTON, NC 28658	402 RAGAN ROAD	PO BOX 369, RAMSEY, NJ 07446	428 CLOVER LANE, NEWTON, NC 28658	731 W. 15TH STREET, NEWTON, NC 28658
OWNER NAME	IMOGENE S. MATHESON DELLINGER	ONEAL BUILDING AND REAL ESTATE, INC. C/O GRADY ONEAL	NEWTON CENTER, LLC	ETHELENE HUGGINS ERVIN	GEORGE A. LEES, JR.
PARCEL	ာ်တ	10	12	13	41

N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

CATAWBA COUNTY PROJECT: 33423.1.1 (B-4059) BRIDGE NO.79 OVER HILDEBRAN CREEK ON SR 1156

SHEET 9 OF

7 // 12 // 07



AND PERMIT IMPACT SUMMA	REACE WATER IM	Hand Dermanent Temp	in SW Impacts Impacts	Wetlands impacts impacts Permanent Temp.	(ac) (ac) (ac) (ft) (ft)	0.02 0.01 81 31												
	IMPACTS					31												
	E WATER	Existing	Impact			8												
IARY	SURFAC			impacts	(ac)	0.01												
ACT SUMM		Dormonon	SW			0.02												
RMIT IMP		Hand	E	Wetlands	(ac)													
TLAND PE	CTS	Mochanizod	in Clearing	in Wetlands	(ac)													
WE	WETLAND IMPACTS	Evenuation	in	Wetlands	(ac)													
	WETI	Tomp		S														
		Dormanant	FIII	Wetlands	(ac)													
,			Structure	Size / Type		100' Single Span	Steel Bridge											
			Station	(From/To)		17+70 -L-	10	18+40 -EL-										
			Site	Š.	-	1												

and thirteen feet in length. The excavated material will be placed back in the stream bed after the proposed water installation of a proposed 12" diameter ductile iron water line. Excavation will be approximately three feet wide 2) The stream impact due to water line installation involves excavation of the bottom of the stream to allow

line is installed. -L- 18+30

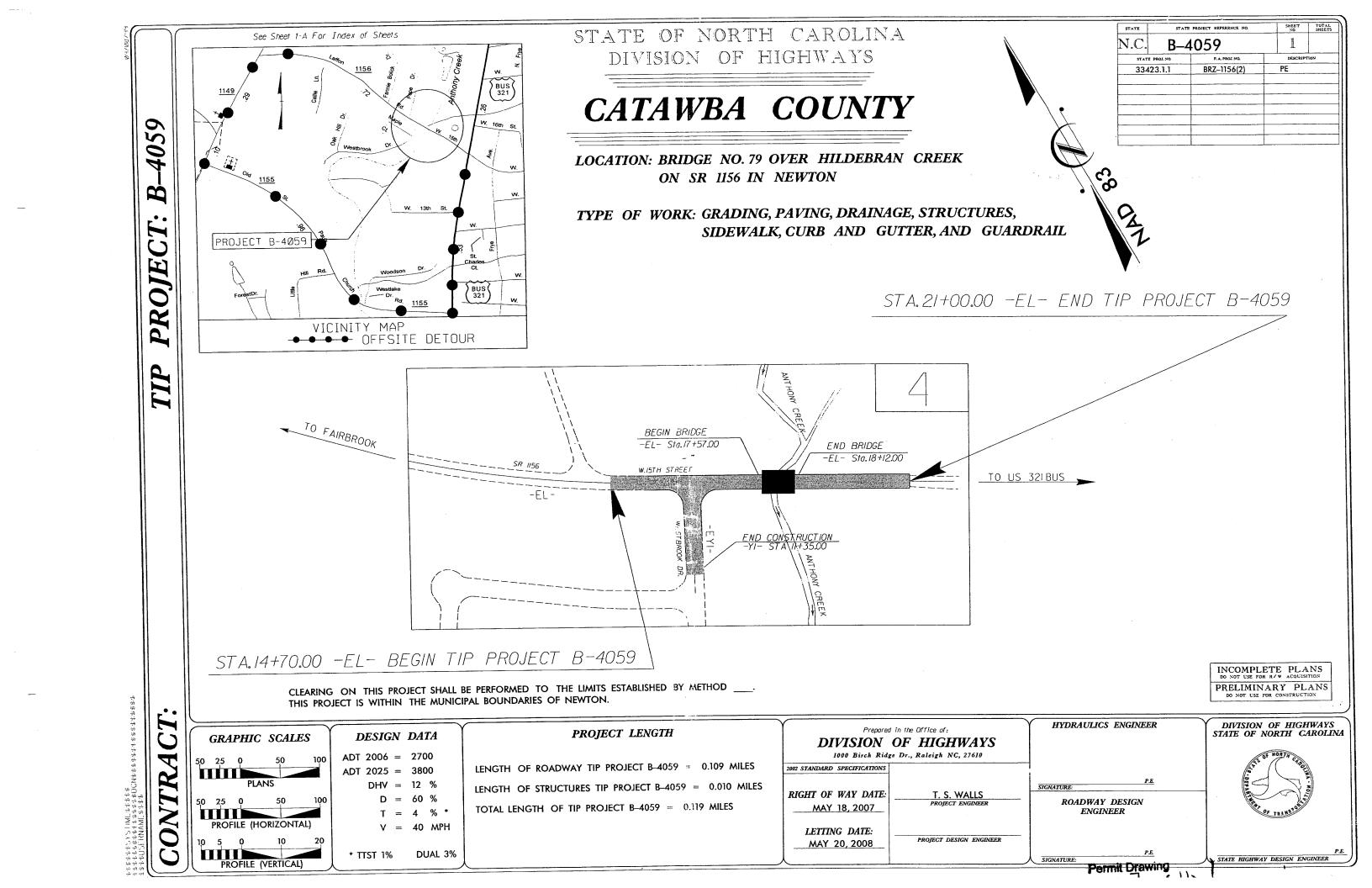
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

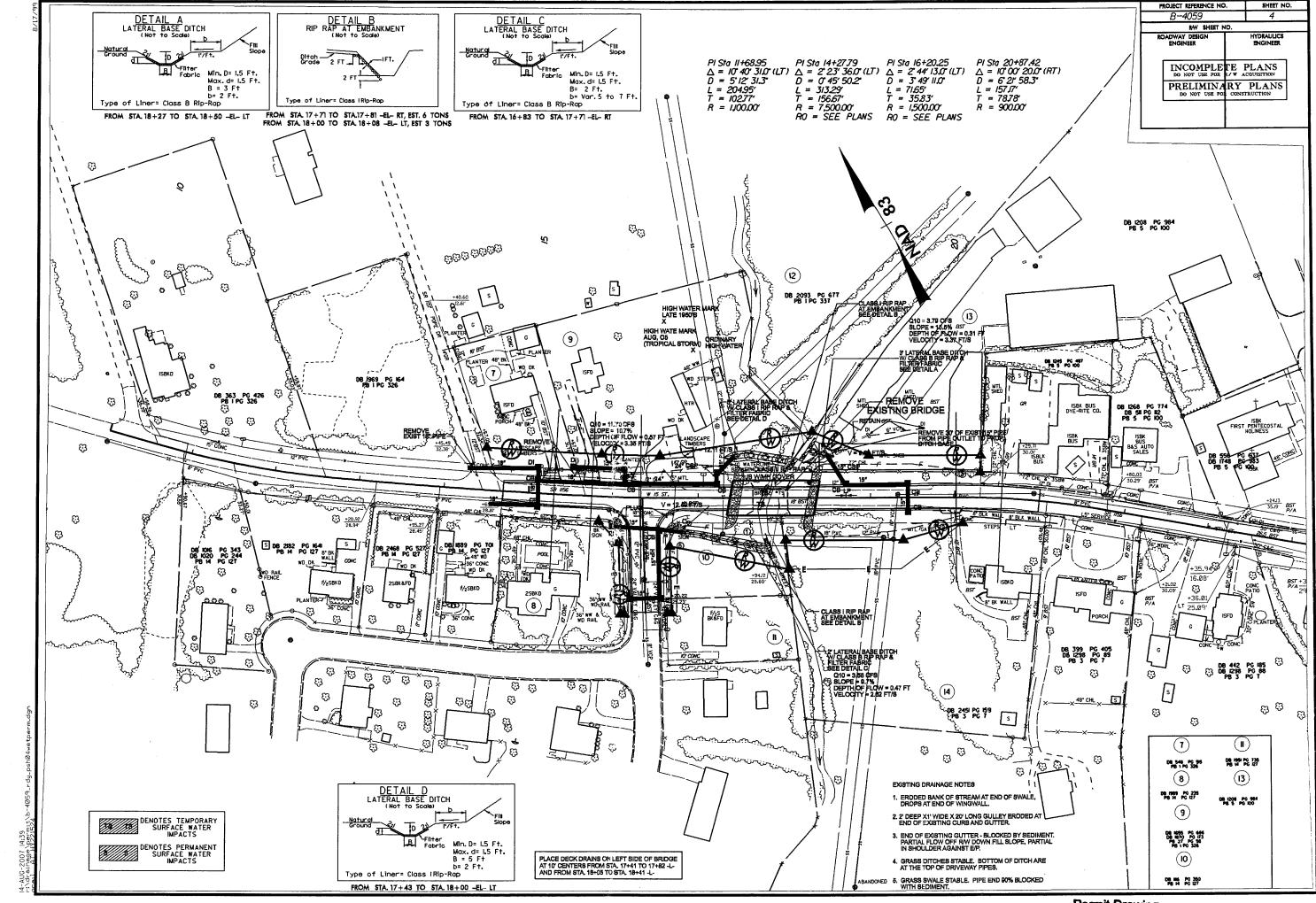
COUNTY: Catawba

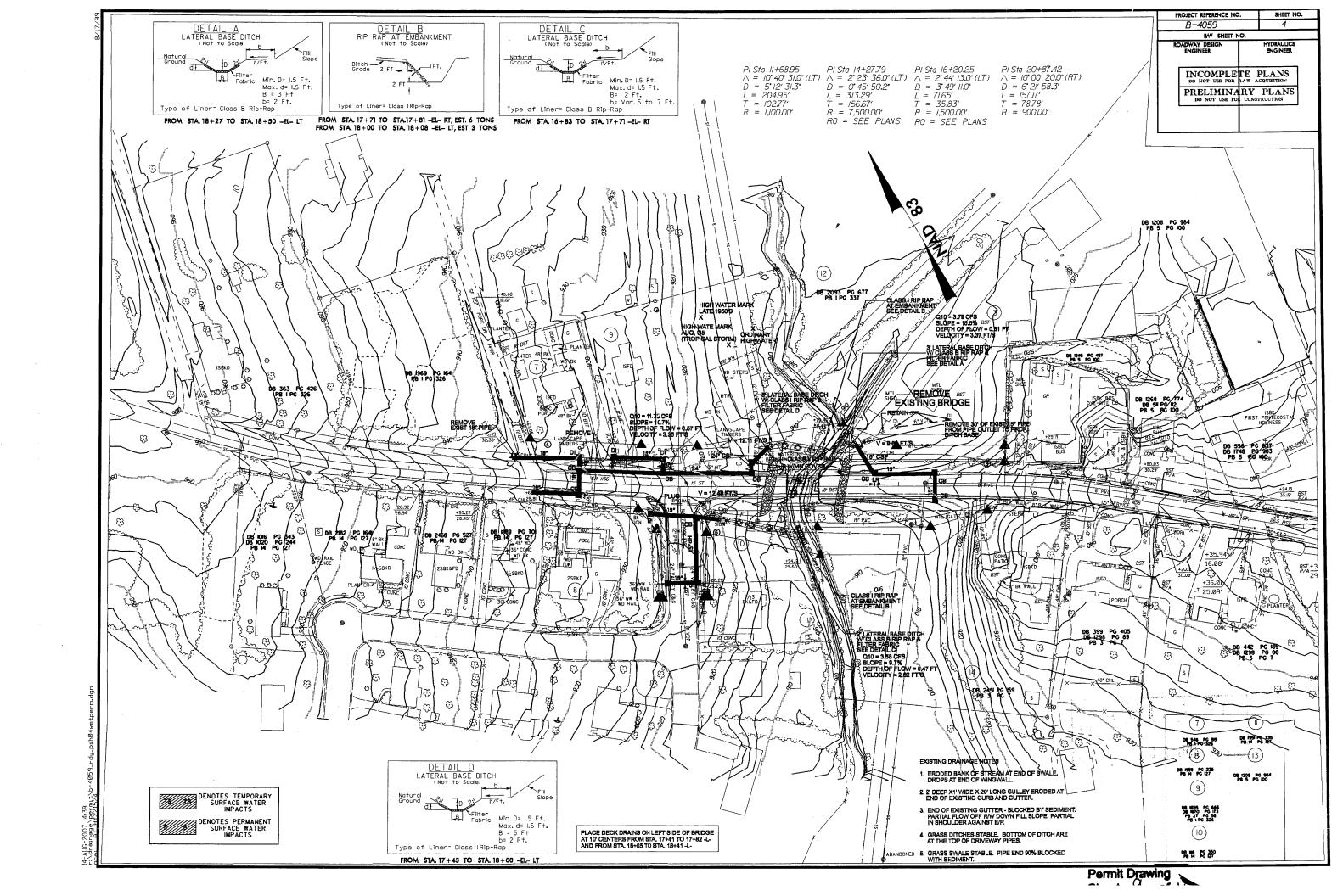
WBS - 33423.1.1 (B-4059)

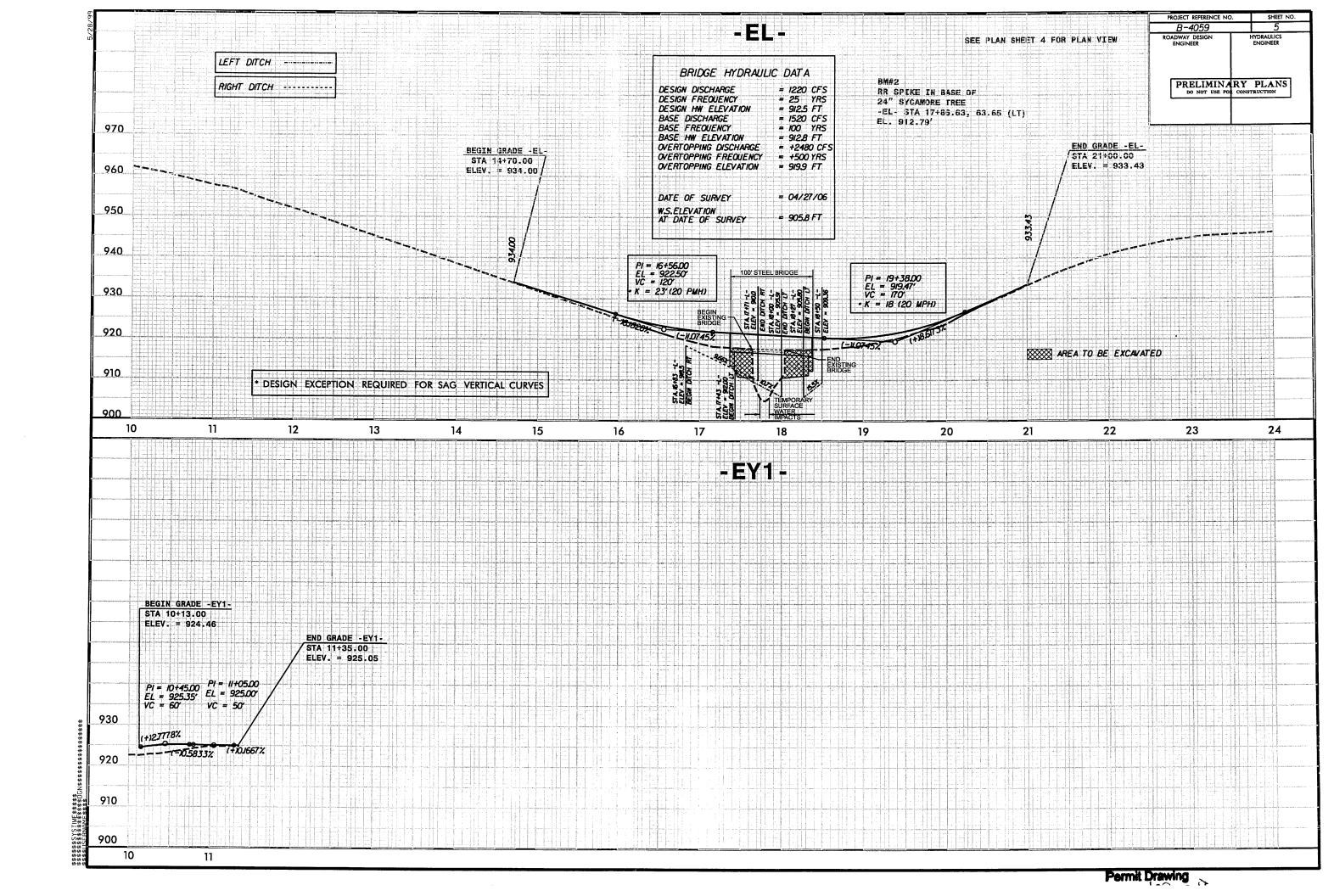
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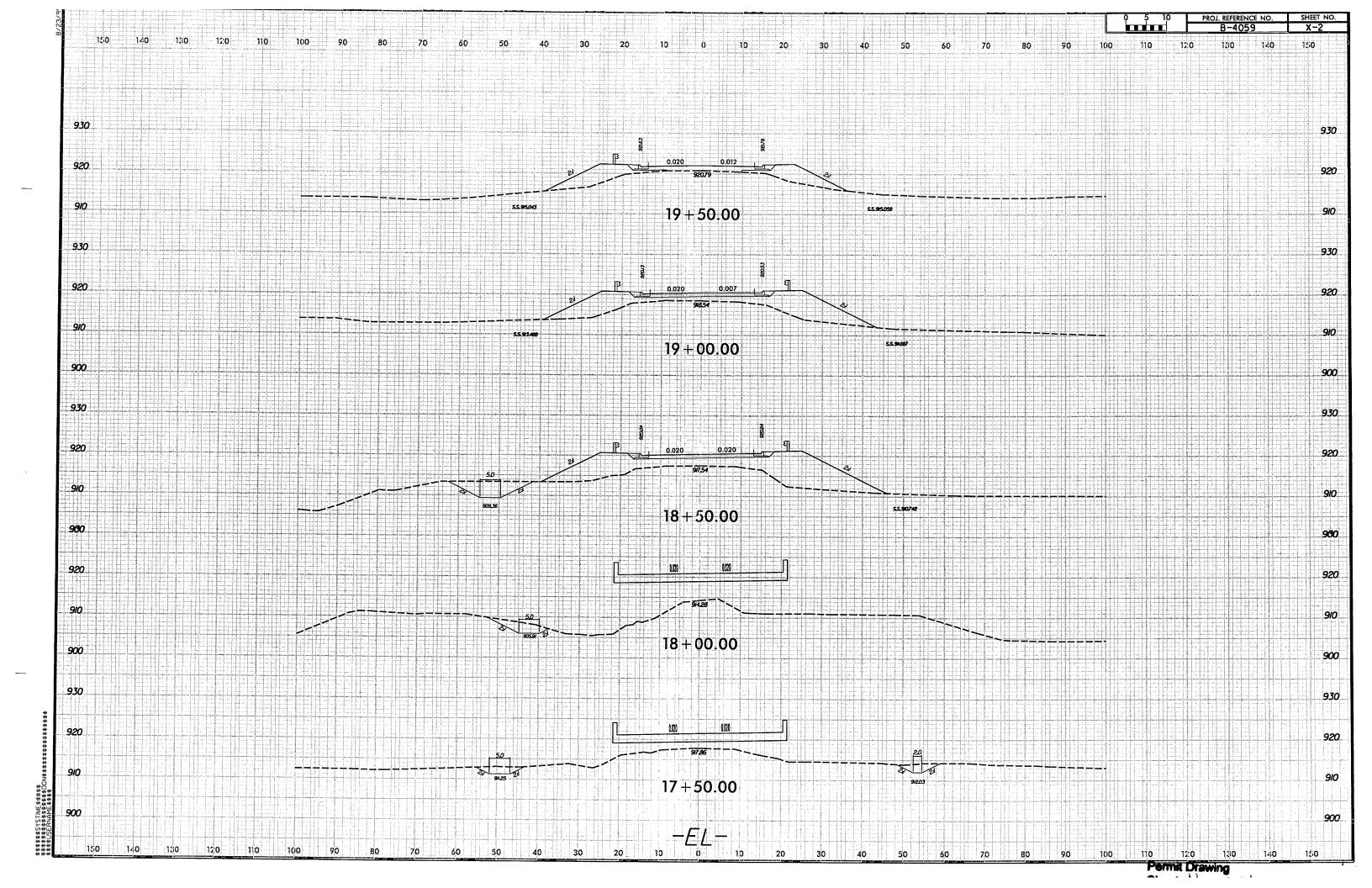
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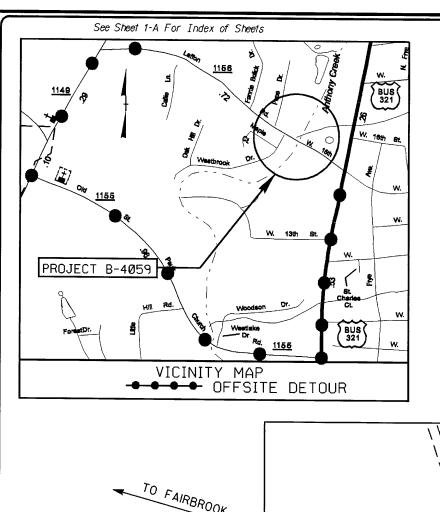












STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

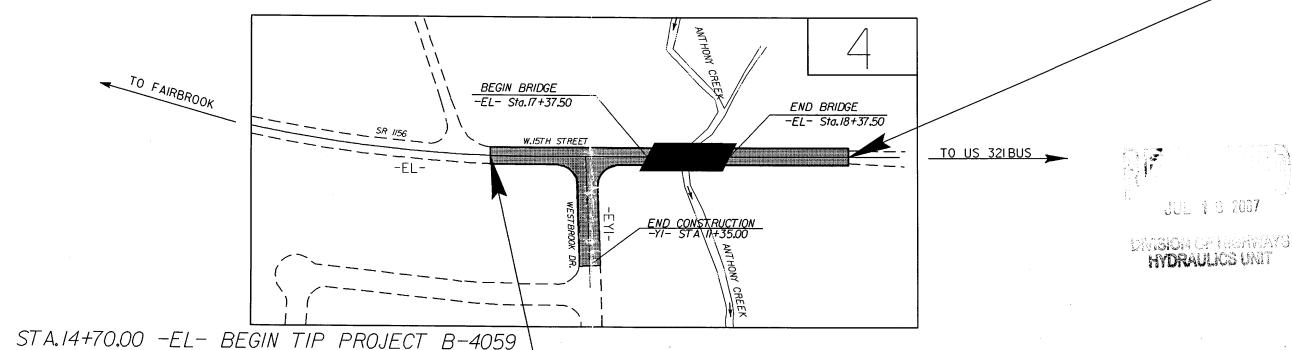
# CATAWBA COUNTY

LOCATION: BRIDGE NO. 79 OVER HILDEBRAN CREEK ON SR 1156 IN NEWTON

TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURES, SIDEWALK, CURB AND GUTTER, AND GUARDRAIL

SHEET NO. 1 B-4059 33423.1.1 BRZ-1156(2) R/W & UTIL 33423.2.1 BRZ-1156(2)

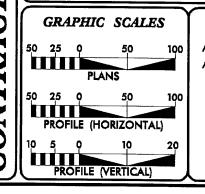
STA.21+00.00 -EL- END TIP PROJECT B-4059



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF NEWTON.

\*\* DESIGN EXCEPTION REQUIRED FOR SAG VERTICAL CURVES

PRELIMINARY PLANS
DO NOT USB FOR CONSTRUCTION



# DESIGN DATA

ADT 2006 = 2700ADT 2025 = 3800

DHV = 12 %

T = 4 %V = 40 MPH

\* TTST 1% DUAL 3%

# PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4059 = 0.100 MILES LENGTH OF STRUCTURES TIP PROJECT B-4059 = 0.019 MILES TOTAL LENGTH OF TIP PROJECT B-4059 = 0.119 MILES

# Prepared In the Office of: **DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr., Raleigh NC, 27610 2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MAY 22, 2007

> LETTING DATE: MAY 20, 2008

TED S. WALLS

ALLISON K. WHITE

# HYDRAULICS ENGINEER

ROADWAY DESIGN

ENGINEER

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA



4059

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PROJE

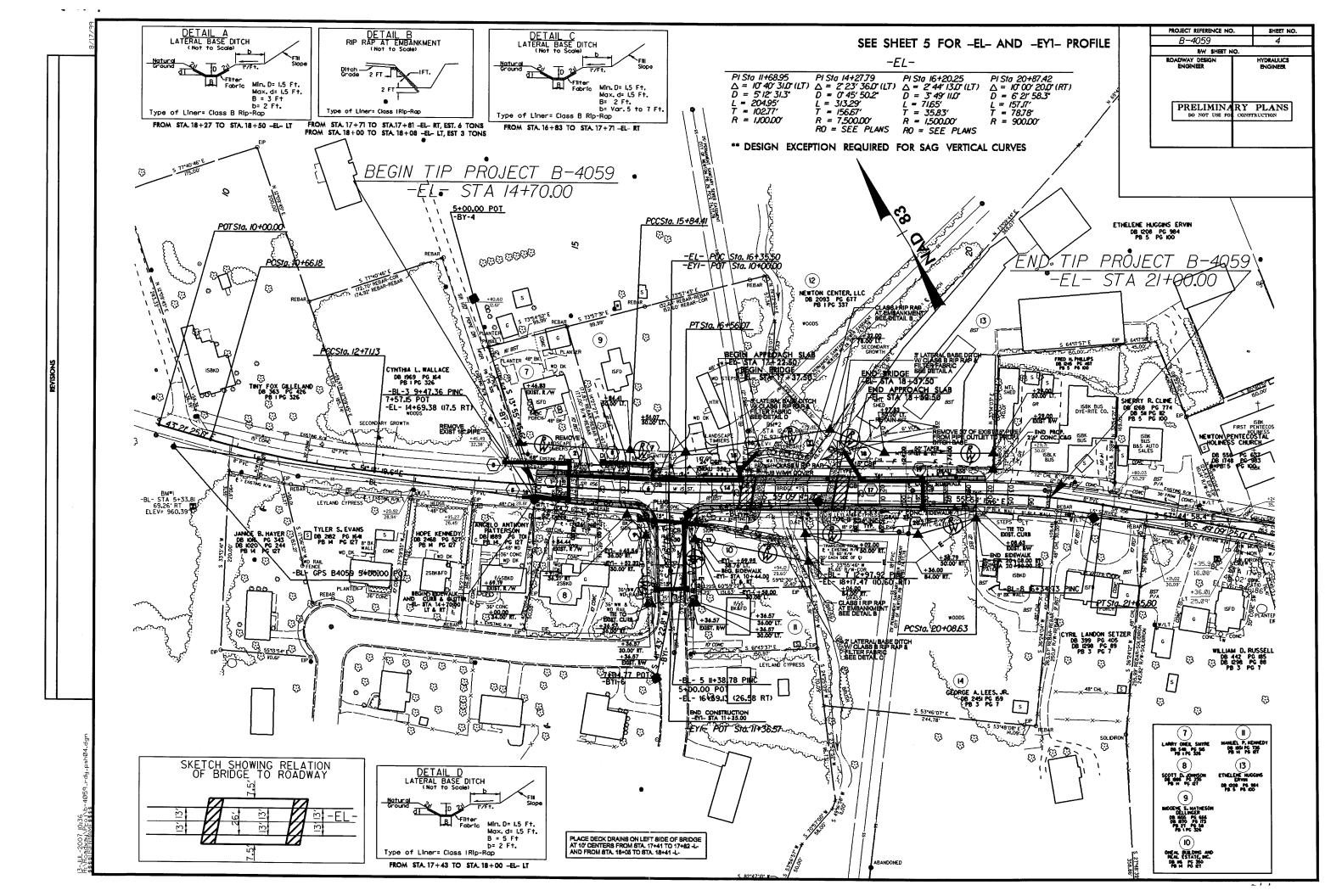
TIP

\*S.U.E. = Subsurface Utility Engineering

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

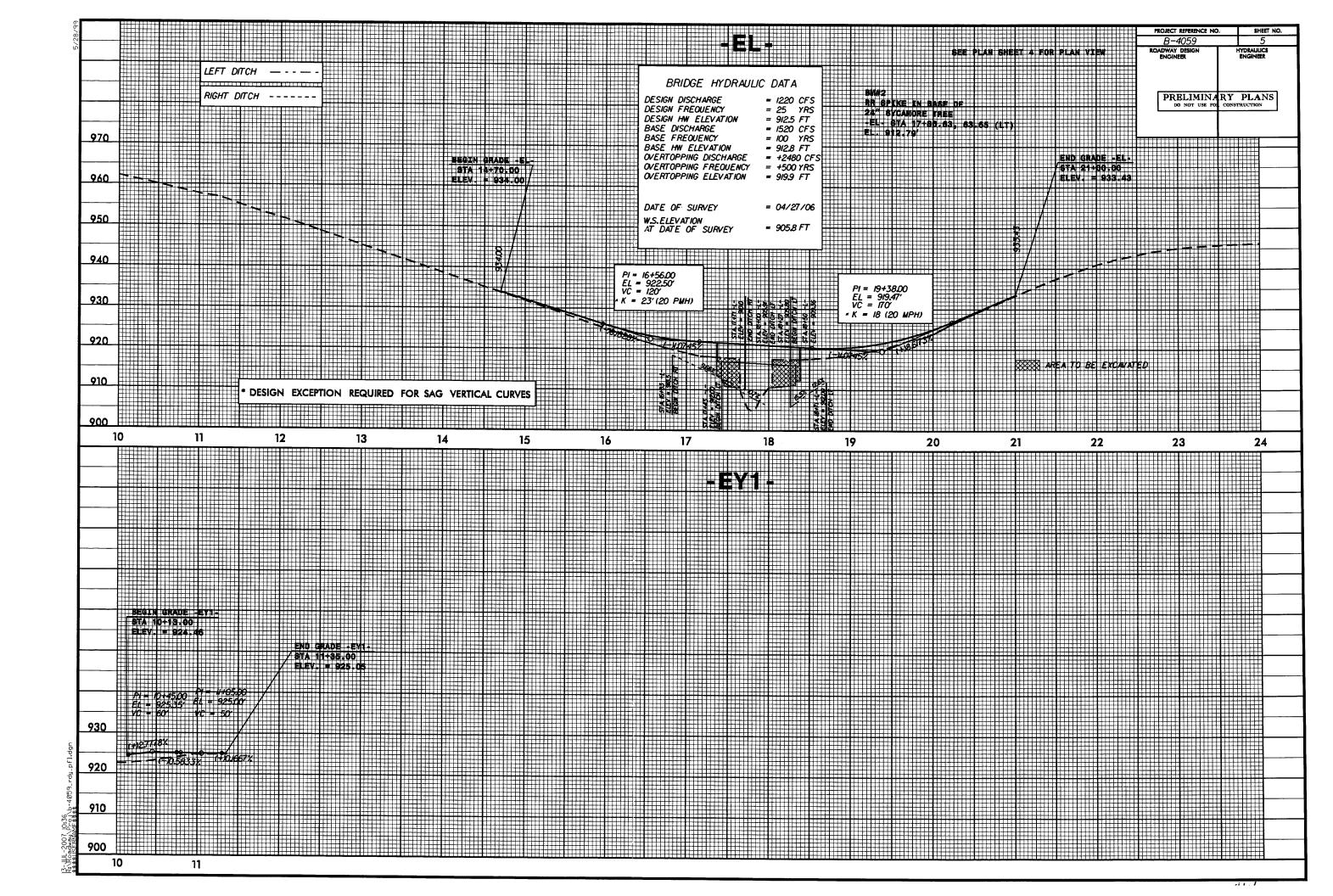
# CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:	RAILROADS:				Water Manhole	W
State Line		CSX TRANSPORTATION			Water Meter	0
County Line	RR Signal Milepost				Water Valve	8
Township Line	Switch —	WILE PUO I 35	EXISTING STRUCTURES:		Water Hydrant	•\$
City Line	RR Abandoned	SWITCH	MAJOR:		Recorded U/G Water Line	
Reservation Line	RR Dismantled		Bridge, Tunnel or Box Culvert	CONC	Designated U/G Water Line (S.U.E.*)	
	RR Districtined		Bridge Wing Wall, Head Wall and End Wall -		Above Ground Water Line	
Property Line	RIGHT OF WAY:		MINOR:	) (	ABOVO GIOGINA VIGIGI ENTO	
Existing Iron Pin Open	Baseline Control Point	-	Head and End Wall	( 100 to	TV:	
Property Corner ———————————————————————————————————	Existing Right of Way Marker	- À	Pipe Culvert	•	TV Satellite Dish	~
Property Monument	Existing Right of Way Line		Footbridge >>		TV Pedestal	[C]
Parcel/Sequence Number — (23)	Proposed Right of Way Line	<del></del>	_		TV Tower	_
Existing Fence Line ————————————————————————————————————	Proposed Right of Way Line with	<i>₽</i>	Drainage Box: Catch Basin, DI or JB			_
Proposed Woven Wire Fence	Iron Pin and Cap Marker		Paved Ditch Gutter		U/G TV Cable Hand Hole	
Proposed Chain Link Fence	Proposed Right of Way Line with Concrete or Granite Marker		Storm Sewer Manhole		Recorded U/G TV Cable	
Proposed Barbed Wire Fence		<b>O W</b>	Storm Sewer	s	Designated U/G TV Cable (S.U.E.*)———	
Existing Wetland Boundary	Existing Control of Access	(6)			Recorded U/G Fiber Optic Cable ————	
Proposed Wetland Boundary ————————————————————————————————————	Proposed Control of Access	•	UTILITIES:		Designated U/G Fiber Optic Cable (S.U.E.*)—	TV F0
Existing Endangered Animal Boundary	Existing Easement Line	-	POWER:			
Existing Endangered Plant Boundary	Proposed Temporary Construction Easement		Existing Power Pole	•	GAS:	
BUILDINGS AND OTHER CULTURE:	Proposed Temporary Drainage Easement		Proposed Power Pole	6	Gas Valve	
Gas Pump Vent or U/G Tank Cap ——	Proposed Permanent Drainage Easement ——		Existing Joint Use Pole		Gas Meter	<b>♦</b>
Sign ———————	Proposed Permanent Utility Easement ———	PUE	Proposed Joint Use Pole	ф-	Recorded U/G Gas Line	G
Well	ROADS AND RELATED FEATURE	DEC.	Power Manhole	P	Designated U/G Gas Line (S.U.E.*)	
Small Mine	Existing Edge of Pavement		Power Line Tower	$\boxtimes$	Above Ground Gas Line	A/G Gas
Foundation 💮	Existing Curb		Power Transformer	$\square$		
Area Outline	Proposed Slope Stakes Cut		U/G Power Cable Hand Hole	H <sub>H</sub>	SANITARY SEWER:	
	Proposed Slope Stakes Fill		H-Frame Pole	•••	Sanitary Sewer Manhole	<b>®</b>
Cemetery			Recorded U/G Power Line	P	Sanitary Sewer Cleanout	
Building	Proposed Wheel Chair Ramp		Designated U/G Power Line (S.U.E.*)		U/G Sanitary Sewer Line	
School	Proposed Wheel Chair Ramp Curb Cut —	_			Above Ground Sanitary Sewer —————	
Church ————————————————————————————————————	Curb Cut for Future Wheel Chair Ramp	- CCFR	TELEPHONE:		Recorded SS Forced Main Line	
Dam	Existing Metal Guardrail		Existing Telephone Pole		Designated SS Forced Main Line (S.U.E.*) —	
HYDROLOGY:	Proposed Guardrail		Proposed Telephone Pole	-0-	,	
Stream or Body of Water —	Existing Cable Guiderail		Telephone Manhole	T)	MISCELLANEOUS:	
Hydro, Pool or Reservoir	Proposed Cable Guiderail		Telephone Booth	<b>)</b>	Utility Pole	•
Jurisdictional Stream	Equality Symbol	•	Telephone Pedestal	m	Utility Pole with Base	⊡
Buffer Zone 1az 1	Pavement Removal	- 🖾	Telephone Cell Tower	I	Utility Located Object —	
Buffer Zone 2	VEGETATION:		U/G Telephone Cable Hand Hole	明	Utility Traffic Signal Box	
Flow Arrow—	Single Tree	A			Utility Unknown U/G Line —————	
Disappearing Stream —	Single Shrub		Recorded U/G Telephone Cable		•	
Spring —	Hedge		Designated U/G Telephone Cable (S.U.E.*)—		U/G Tank; Water, Gas, Oil	
Wetland ————————————————————————————————————	Woods Line		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil	
Proposed Lateral, Tail, Head Ditch			Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	•
₹— FIDI	Orchard		Recorded U/G Fiber Optics Cable ————		Abandoned According to Utility Records —	AATUR
raise Sump	Vineyard	Vineyard Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)		End of Information ————————————————————————————————————	E.O.I.



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# CATEGORICAL EXCLUSION ACTION CLASSIFICATION FORM

TIP Project No.	B-4059
State Project No.	8.2792101
W.B.S. No.	33423.1.1
Federal Project No.	BRZ-1156(2)

# A. <u>Project Description</u>:

The purpose of this project is to replace Catawba County Bridge No. 79 on SR 1156 (Laffon Road) over Hildebran Creek (also referred to as Anthony Creek). Bridge No. 79 is 41 feet long with vertical abutments. The replacement structure will be a bridge approximately 55 feet long providing a minimum 41 feet clear deck width. The bridge will include two 13-foot lanes, 2-foot offsets and 5'6" sidewalk on both sides. The roadway grade of the new structure will be approximately the same as the existing structure.

The approach roadway will extend approximately 260 feet from the northwest end of the new bridge and 220 feet from the southeast end of the new bridge. The approaches will be widened to include a 26-foot pavement width providing two 13-foot lanes. Eight-foot berms with curb and gutter and 5-foot sidewalks will be provided on each side. The roadway will be designed as a Local Urban Route with a 40 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

# B. <u>Purpose and Need</u>:

NCDOT Bridge Maintenance Unit records indicate Bridge No. 79 has a sufficiency rating of 29.4 out of a possible 100 for a new structure. The bridge is considered structurally deficient and functionally obsolete due to a structural appraisal of 2 out of 9 and a deck geometry appraisal of 2 out of 9 according to Federal Highway Administration (FHWA) standards and therefore eligible for FHWA's Bridge Replacement Program.

Bridge No. 79 and has a fifty-year old timber sub-structure. Timber structures have a typical life expectancy between 40 to 50 years due to the natural deterioration rate of wood. Rehabilitation of a timber structure is generally practical only when a few members are damaged or prematurely deteriorated. However, past a certain degree of deterioration, timber structures become impractical to maintain and upon eligibility are programmed for replacement. Bridge No. 79 is approaching the end of its useful life.

# C. <u>Proposed Improvements</u>:

Circle one or more of the following Type II improvements which apply to the project:

- 1. Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing).
  - a. Restoring, Resurfacing, Rehabilitating, and Reconstructing pavement (3R and 4R improvements)
  - b. Widening roadway and shoulders without adding through lanes

c. Modernizing gore treatments

d. Constructing lane improvements (merge, auxiliary, and turn lanes)

e. Adding shoulder drains

f. Replacing and rehabilitating culverts, inlets, and drainage pipes, including safety treatments

g. Providing driveway pipes

h. Performing minor bridge widening (less than one through lane)

i. Slide Stabilization

- i. Structural BMP's for water quality improvement
- 2. Highway safety or traffic operations improvement projects including the installation of ramp metering control devices and lighting.
  - a. Installing ramp metering devices

b. Installing lights

c. Adding or upgrading guardrail

d. Installing safety barriers including Jersey type barriers and pier protection

e. Installing or replacing impact attenuators

- f. Upgrading medians including adding or upgrading median barriers
- g. Improving intersections including relocation and/or realignment

h. Making minor roadway realignment

i. Channelizing traffic

j. Performing clear zone safety improvements including removing hazards and flattening slopes

k. Implementing traffic aid systems, signals, and motorist aid

- 1. Installing bridge safety hardware including bridge rail retrofit
- 3. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings.
  - a. Rehabilitating, reconstructing, or replacing bridge approach slabs

b. Rehabilitating or replacing bridge decks

c. Rehabilitating bridges including painting (no red lead paint), scour

repair, fender systems, and minor structural improvements Replacing a bridge (structure and/or fill)

- 4. Transportation corridor fringe parking facilities.
- 5. Construction of new truck weigh stations or rest areas.

- 6. Approvals for disposal of excess right-of-way or for joint or limited use of right-of-way, where the proposed use does not have significant adverse impacts.
- 7. Approvals for changes in access control.
- 8. Construction of new bus storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and located on or near a street with adequate capacity to handle anticipated bus and support vehicle traffic.
- 9. Rehabilitation or reconstruction of existing rail and bus buildings and ancillary facilities where only minor amounts of additional land are required and there is not a substantial increase in the number of users.
- 10. Construction of bus transfer facilities (an open area consisting of passenger shelters, boarding areas, kiosks and related street improvements) when located in a commercial area or other high activity center in which there is adequate street capacity for projected bus traffic.
- 11. Construction of rail storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and where there is no significant noise impact on the surrounding community.
- 12. Acquisition of land for hardship or protective purposes, advance land acquisition loans under section 3(b) of the UMT Act. Hardship and protective buying will be permitted only for a particular parcel or a limited number of parcels. These types of land acquisition qualify for a CE only where the acquisition will not limit the evaluation of alternatives, including shifts in alignment for planned construction projects, which may be required in the NEPA process. No project development on such land may proceed until the NEPA process has been completed.
- 13. Acquisition and construction of wetland, stream and endangered species mitigation sites.
- 14. Remedial activities involving the removal, treatment or monitoring of soil or groundwater contamination pursuant to state or federal remediation guidelines.

# D. Special Project Information:

# **Estimated Costs:**

	and the second second
Structure	\$ 220,000
Roadway Approaches	\$ 250,255
Detour Structure and Approaches	- 0 -
Structure Removal	\$ 11,536
Misc. & Mob.	\$ 148,209
Eng. & Contingencies	\$ 95,000
<b>Total Construction Cost*</b>	\$ 725,000
Right-of-way Costs	\$ 83,000
Total Project Cost	\$ 808,000

<sup>\*</sup>The total construction cost listed above includes \$15,939 for sidewalks, which are included on both sides for the entire length of the project. The City of Newton will be responsible for the maintenance and liability of the proposed sidewalk, as well as, sharing in the cost of construction according to NCDOT requirements for a municipality with a population from 10,000 to 50,000 - 70% DOT (\$11,157) and 30% (\$4,782) municipality.

# **Estimated Traffic:**

Current	-	2,400 vpd
Year 2025	-	3,800 vpd
TTST	-	1%
Dual	-	3%

**Accidents:** Traffic Engineering has evaluated a recent three year period and found two accidents occurring in the vicinity of the project. Neither accident was associated with the geometry of the bridge or its approach roadways.

Design Exceptions: There are no anticipated design exceptions for this project.

**Bridge Demolition:** Bridge No. 79 is constructed entirely of timber and steel and should be possible to remove with no resulting debris in Hildebran Creek based on standard demolition practices.

# **Alternatives Discussion:**

No Build – The no build alternative would result in eventually closing the road which is unacceptable given the volume of traffic served by SR 1156.

**Rehabilitation** – The bridge was constructed in 1956 and the timber materials within the bridge are reaching the end of their useful life. Rehabilitation would require replacing the timber components which would constitute effectively replacing the bridge.

Offsite Detour – Bridge No. 79 will be replaced on the existing alignment. Traffic will be detoured offsite (see Figure 1) during the construction period. NCDOT Guidelines for Evaluation of Offsite Detours for Bridge Replacement Projects considers multiple project variables beginning with the additional time traveled by the average road user resulting from the offsite detour. The offsite detour for this project would include SR 1149, SR 1155, and US 321 Business. The majority of traffic on the road is through traffic. The detour for the average road user would result in 4 minutes additional travel time (1.9 miles additional travel). Up to a twelve-month duration of construction is expected on this project.

Based on the Guidelines, the criteria above indicate that on the basis of delay alone the detour is acceptable. Catawba County Emergency Services along with Catawba County Schools Transportation have also indicated that the detour is acceptable. NCDOT Division 12 has indicated the condition of all roads, bridges and intersections on the offsite detour are acceptable without improvement and concurs with the use of the detour.

**Onsite Detour** – An onsite detour was not evaluated due to the presence of an acceptable offsite detour.

New Alignment – Given that the alignment for SR 1156 is acceptable, a new alignment was not considered as an alternative.

# **Other Agency Comments:**

The N.C. Wildlife Resource Commission, U.S. Fish & Wildlife, the Army Corps of Engineers, and the N.C. Division of Water Quality had no special concerns for this project.

#### **Public Involvement:**

Location and Surveys personnel visited Catawba Valley Plumbing Supply and was informed the building being impacted was used for storage. This project will not impact access to the property.

The Location & Surveys Unit sent a letter to all other property owners affected directly by this project. Property owners were invited to comment. No comments have been received to date.

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L.	THESHOLD	CITOTIA

The following evaluation of threshold criteria must be completed for Type II actions

<u>ECOL</u>	OGICAL	<u>YES</u>	NO
(1)	Will the project have a substantial impact on any unique or important natural resource?		<b>x</b>
(2)	Does the project involve habitat where federally listed endangered or threatened species may occur?		x
(3)	Will the project affect anadromous fish?		X
(4)	If the project involves wetlands, is the amount of permanent and/or temporary wetland taking less than one-tenth (1/10) of an acre and have all practicable measures to avoid and minimize wetland takings been evaluated?	_x_	
(5)	Will the project require the use of U. S. Forest Service lands?		<u> </u>
(6)	Will the quality of adjacent water resources be adversely impacted by proposed construction activities?		x
(7)	Does the project involve waters classified as Outstanding Water Resources (OWR) and/or High Quality Waters (HQW)?		x
(8)	Will the project require fill in waters of the United States in any of the designated mountain trout counties?		x
(9)	Does the project involve any known underground storage tanks (UST's) or hazardous materials sites?		X
PERM	MITS AND COORDINATION	<u>YES</u>	<u>NO</u>
(10)	If the project is located within a CAMA county, will the project significantly affect the coastal zone and/or any "Area of Environmental Concern" (AEC)?		<b>X</b>
(11)	Does the project involve Coastal Barrier Resources Act resources?		x
(12)	Will a U. S. Coast Guard permit be required?		x
(13)	Will the project result in the modification of any existing regulatory floodway?		x

(14)	Will the project require any stream relocations or channel changes?		<u> </u>
SOCL	AL, ECONOMIC, AND CULTURAL RESOURCES	<u>YES</u>	NO
(15)	Will the project induce substantial impacts to planned growth or land use for the area?		x
(16)	Will the project require the relocation of any family or business?	<b>x</b> *	
(17)	Will the project have a disproportionately high and adverse human health and environmental effect on any minority or low-income population?	,	<b>X</b>
(18)	If the project involves the acquisition of right of way, is the amount of right of way acquisition considered minor?	x	
(19)	Will the project involve any changes in access control?		X
(20)	Will the project substantially alter the usefulness and/or land use of adjacent property?		X
(21)	Will the project have an adverse effect on permanent local traffic patterns or community cohesiveness?		X
(22)	Is the project included in an approved thoroughfare plan and/or Transportation Improvement Program (and is, therefore, in conformance with the Clean Air Act of 1990)?	x	
(23)	Is the project anticipated to cause an increase in traffic volumes?		x_
(24)	Will traffic be maintained during construction using existing roads, staged construction, or on-site detours?	x	
(25)	If the project is a bridge replacement project, will the bridge be replaced at its existing location (along the existing facility) and will all construction proposed in association with the	•	
(26)	bridge replacement project be contained on the existing facility?  Is there substantial controversy on social, economic, or	<u>x</u>	
	environmental grounds concerning the project?		<u> </u>
(27)	Is the project consistent with all Federal, State, and local laws relating to the environmental aspects of the project?	<u>x</u>	
(28)	Will the project have an "effect" on structures/properties eligible for or listed on the National Register of Historic Places?		X

(29)	Will the project affect any archaeological remains which are important to history or pre-history?		<b>X</b>
(30)	Will the project require the use of Section 4(f) resources (public parks, recreation lands, wildlife and waterfowl refuges, historic sites, or historic bridges, as defined in Section 4(f) of the U. S. Department of Transportation Act of 1966)?		x
(31)	Will the project result in any conversion of assisted public recreation sites or facilities to non-recreation uses, as defined by Section 6(f) of the Land and Water Conservation Act of 1965, as amended?		<b>X</b>
(32)	Will the project involve construction in, across, or adjacent to a river designated as a component of or proposed for inclusion in the National System of Wild and Scenic Rivers?	,	x

F. Additional Documentation Required for Unfavorable Responses in Part E

Response to Question 16: The structure impacted is currently used as storage for a plumbing supply company. They do have other storage facilities available and the business should be able to maintain operations at its current location.

# G. <u>CE Approval</u>

TIP Project No.	B-4059
State Project No.	8.2792101
W.B.S. No.	33423.1.1
Federal Project No.	BRZ-1156(2)

# Project Description:

The purpose of this project is to replace Catawba County Bridge No. 79 on SR 1156 (Laffon Road) over Hildebran Creek (also referred to as Anthony Creek). Bridge No. 79 is 41 feet long with vertical abutments. The replacement structure will be a bridge approximately 55 feet long providing a minimum 41 feet clear deck width. The bridge will include two 13-foot lanes, 2-foot offsets and 5'6" sidewalk on both sides. The roadway grade of the new structure will be approximately the same as the existing structure.

The approach roadway will extend approximately 260 feet from the northwest end of the new bridge and 220 feet from the southeast end of the new bridge. The approaches will be widened to include a 26-foot pavement width providing two 13-foot lanes. Eight-foot berms with curb and gutter and 5-foot sidewalks will be provided on each side. The roadway will be designed as a Local Urban Route with a 40 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

Categorical Exclusion Action Classification:

	TYPE II(A)
	X TYPE II(B)
Approved:	1. 71. 701 6-1
+17/00	Wille Morrisher.
Date	Bridge Project Development Engineer
	Project Development & Environmental Analysis Branch
7/04/04	( ) ohn V. Williams
Date	Project Engineer
	Project Development & Environmental Analysis Branch
6/28/06	Marie Sutter
Date	Project Planning Engineer
	Project Development & Environmental Analysis Branch
For Type II(B)	

John F. Sullivan, III, PE, Division Administrator Federal Highway Administration

# PROJECT COMMITMENTS

Replacement of Bridge No. 79
on SR 1156 (Laffon Road) over Hildebran Creek
Catawba County
Federal-Aid No. BRZ-1156(2)
State Project No. 8.2792101
T.I.P. No. B-4059

# Commitments Developed Through Project Development and Design

Division Twelve Construction, Resident Engineer's Office - Offsite Detour

In order to allow Catawba County Emergency Services time to prepare for road closure, the NCDOT Resident Engineer will notify Catawba County EMS at (828) 465-8233 of the bridge removal 30 days prior to road closure.

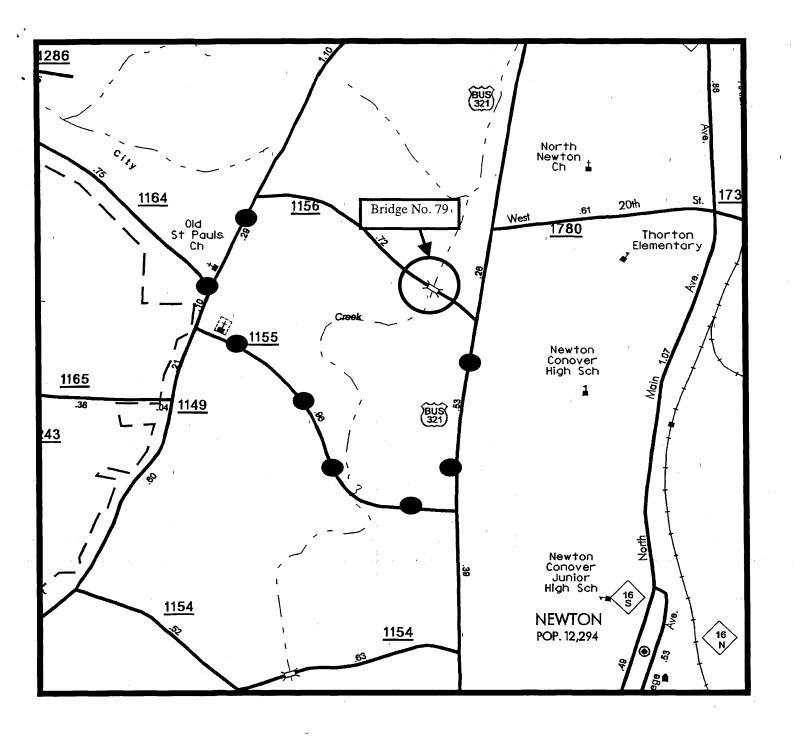
In order to allow Catawba County Schools time to prepare for road closure, the NCDOT Resident Engineer will notify the School Transportation Director at (828) 464-8333 of the bridge removal 30 days prior to road closure.

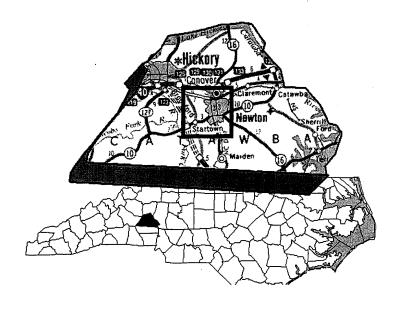
Natural Environment Unit - Bridge Demolition

The entire bridge is constructed of timber and steel. Therefore, it is unlikely that there will be any temporary fill resulting from bridge demotion.

Roadway Design/Program Development Branch - Sidewalks

Sidewalks are included on both sides for the entire length of the project. The City of Newton will be responsible for the maintenance and liability of the proposed sidewalk, as well as, sharing in the cost of construction according to NCDOT requirements for a municipality with a population from 10,000 to 50,000 (70% DOT and 30% municipality).





# STUDIED DETOUR ROUTE

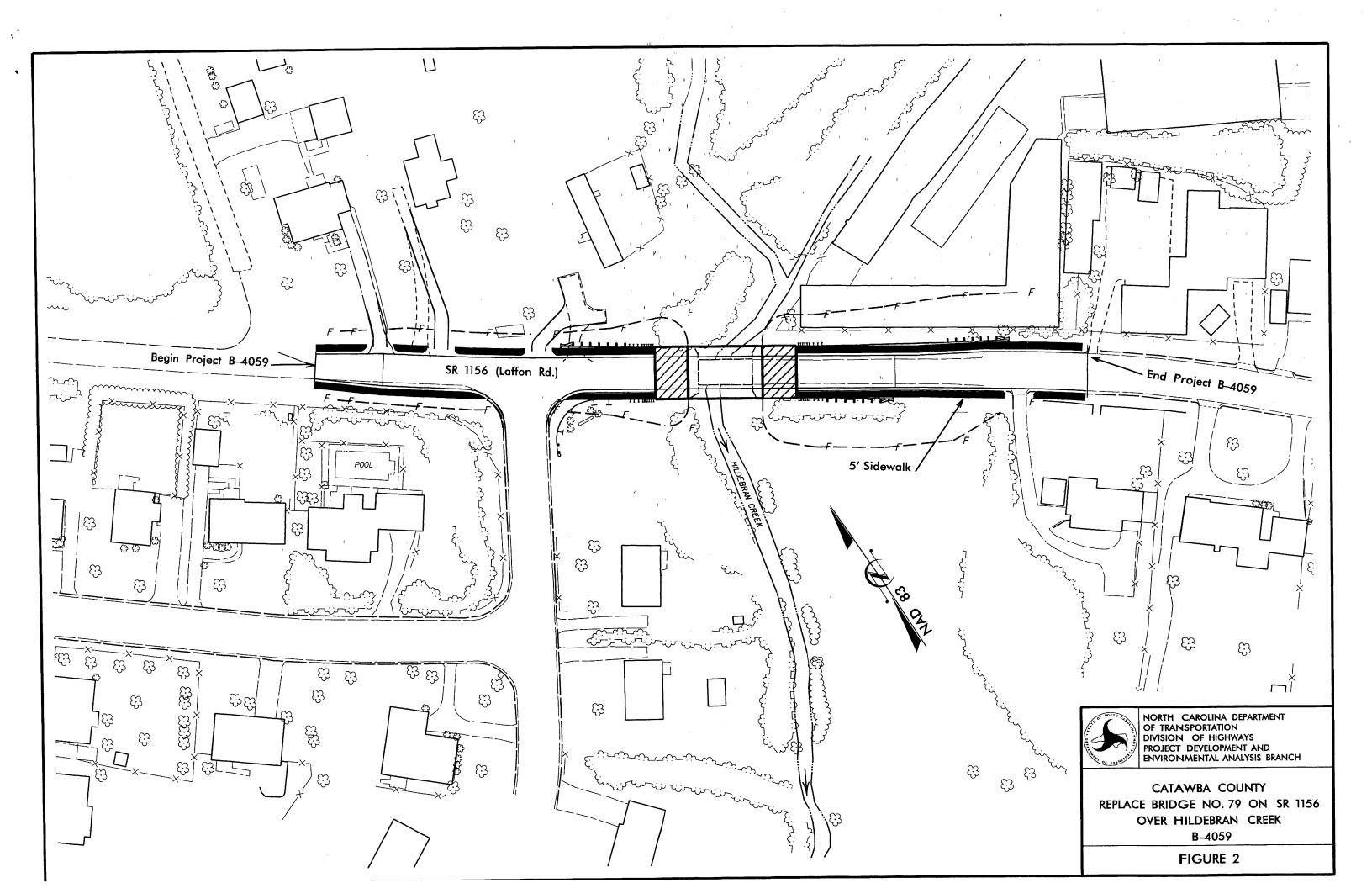




NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PROJECT DEVELOPMENT & ENVIRONMENTAL ANALYSIS BRANCH

CATAWBA COUNTY
REPLACE BRIDGE NO. 79 ON SR 1156
OVER HILDEBRAN CREEK
B-4059

Figure 1





# North Carolina Department of Cultural Resources State Historic Preservation Office

David L. S. Brook, Administrator

ichael F. Easley, Governor isbeth C. Evans, Secretary ffrey J. Crow, Deputy Secretary Office of Archives and History David E. S. Brook, Administrator

Division of Historical Resources David J. Olson, Director



April 10, 2002

#### **MEMORANDUM**

TO:

William D. Gilmore, Manager

Project Development and Environmental Analysis Branch

Division of Highways

Department of Transportation

FROM:

David Brook AS for DR

HILDEBRAN

SUBJECT:

Replace Bridge No. 79 on SR 1156 over Anthony Creek,

B-4059, Catawba County, ER 02-8604

Thank you for your memorandum of September 25, 2001, concerning the above project.

We have conducted a search of our maps and files and determined that these structures are not located in or adjacent to any district which is listed in or eligible for listing in the National Register of Historic Places. In addition, the structures are neither listed in nor eligible for listing in the National Register as individual properties. We, therefore, have no comment on the project.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919/733-4763. In all future communication concerning this project, please cite the above referenced tracking number.

DB:kgc

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