

## North Carolina Department of Transportation

## NEPA/SEPA Consultation Form

STIP Project No.	<u>B-5989</u>
WBS Element	<u>47845.1.1</u>
Federal Aid Project No.	<u>BRZ-1395(007)</u>

A. Project Description, Location, and Purpose:

*North Carolina Department of Transportation* (NCDOT) Project B-5989 proposes to replace Bridge No. 71 on Walnut Creek Road (S.R. 1395) over Big Laurel Creek, adjacent to the T-intersection of Walnut Creek Road and Big Laurel Road (S.R. 1318) in Madison County, North Carolina. The project will remove the existing bridge and replace it with a new bridge in its existing location. Traffic will be maintained during construction with a temporary onsite detour bridge. In addition, wide outside paved shoulders are proposed along both sides of the bridge. The purpose of the proposed project is to replace a structurally deficient bridge. NCDOT Structures Management Unit records indicate Bridge No. 71 is considered structurally deficient due to a substructure condition appraisal of 4 out of 9 according to Federal Highway Administration (FHWA) standards.

B. Consultation Phase: (Check one)

- Right-of-Way  
 Construction  
 Other:

NEPA/SEPA Class of Action Initially Approved as: (Check one)

- FHWA Class II (CE)  12/11/2019

Additional Notes: **Type 1 A Ground-Disturbing**

C. Changes in Proposed Action & Environmental Consequences:

The proposed alignment for the roadway approach to the temporary on-site detour bridge has been shifted slightly during the development of the final designs. This shift in alignment resulted in a slight increase in the anticipated impacts to a perennial tributary of Big Laurel Creek (Stream SA). Additional stream impacts are a result of a new corrugated metal pipe being installed under Walnut Creek Road and the temporary detour alignment. Because of the roadway alignment shift, the proposed pipe increased in length by 6 feet, resulting in an increase from 47 feet to 52 feet in anticipated permanent jurisdictional stream impacts.

D. Conclusion:

The above NEPA documentation has been reevaluated (as required by 23 CFR 771). It has been determined that the current proposed action is essentially the same as the

original proposed action. Therefore, the original Administration Action remains valid. Proposed changes are noted in Section C.

E. Coordination

NCDOT personnel have discussed the current project parameters with qualified NCDOT representatives and FHWA. The NCDOT Project Manager, David S. Stutts, PE, hereby verifies the involvement of the following staff and the incorporation of their technical input:

Design Engineer:	James Speer, PE	1/4/2022
Environmental Specialist:	Jeff Hemphill	1/4/2022

F. Consultation Approval for NCDOT Project B-5989

**Prepared By:**

1/4/2022

Date

DocuSigned by:

*Joanna Salvucci*

9C707A074F4E4A4...

Joanna Salvucci, Environmental Scientist  
Three Oaks Engineering

**Prepared For:**

DocuSigned by:

*Jacquelyn Bowles*

DD26E07EDFB647E...

Jacquelyn Bowles, PE  
NCDOT Structures Management Unit

**Reviewed By:**

1/4/2022

Date

DocuSigned by:

*John Jamison*

CA004B4A6412432...

John Jamison, Western Regional Team Lead  
NCDOT Environmental Policy Unit



**Approved**

In adherence with 23 CFR 771 (NEPA) or NC General Statute Chapter 113A Article 1 (SEPA), NCDOT approves this Consultation.

or



**Certified**

NCDOT staff certifies if FHWA signature was previously required or where changes have resulted in FHWA signature being required.

1/4/2022

Date

DocuSigned by:

*David Stutts*

44A2009A8BC64F2...

David Stutts, PE, Project Engineer PEF/Program Management  
NCDOT Structures Management Unit

FHWA Approved: FHWA signature required for Type I(B) CE, Type II(B) CE, Type III CE, FONSI or ROD.

Date

N/A

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

G. Project Commitments (as of 11/16/2021)

**Madison County  
Replace Bridge No. 560071 on Walnut  
Creek Road (S.R.1395) over Big Laurel Creek  
Federal Project No. BRZ-1395(007)  
WBS No. 47845.1.1  
TIP No. B-5989**

**FEMA Floodplains and Floodways (Division 13 Construction, NCDOT SMU)**

- This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

**Floodplain Mapping Coordination (NCDOT Hydraulic Design Unit)**

- The Hydraulics Unit has coordinated with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR). *The Memorandum of Agreement was approved on February 3, 2020.*

**Outstanding Resource Water (NCDOT Division 13, Roadside Environmental Unit)**

- Big Laurel Creek is located in a watershed designated as Outstanding Resource Waters (ORW). The NCDOT will implement Design Standards in Sensitive Watersheds.

**Construction Moratoria (NCDOT Division 13 Construction)**

- The North Carolina Wildlife Resources Commission (NCWRC) identifies Big Laurel Creek as hatchery supported trout waters and has requested a moratorium prohibiting in-stream work and land disturbance within the 25-foot trout buffer from January 1 to April 15.

**Northern long-eared bat and Gray bat (NCDOT Division 13)**

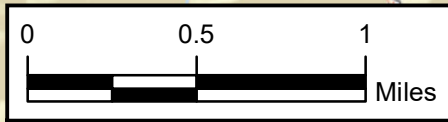
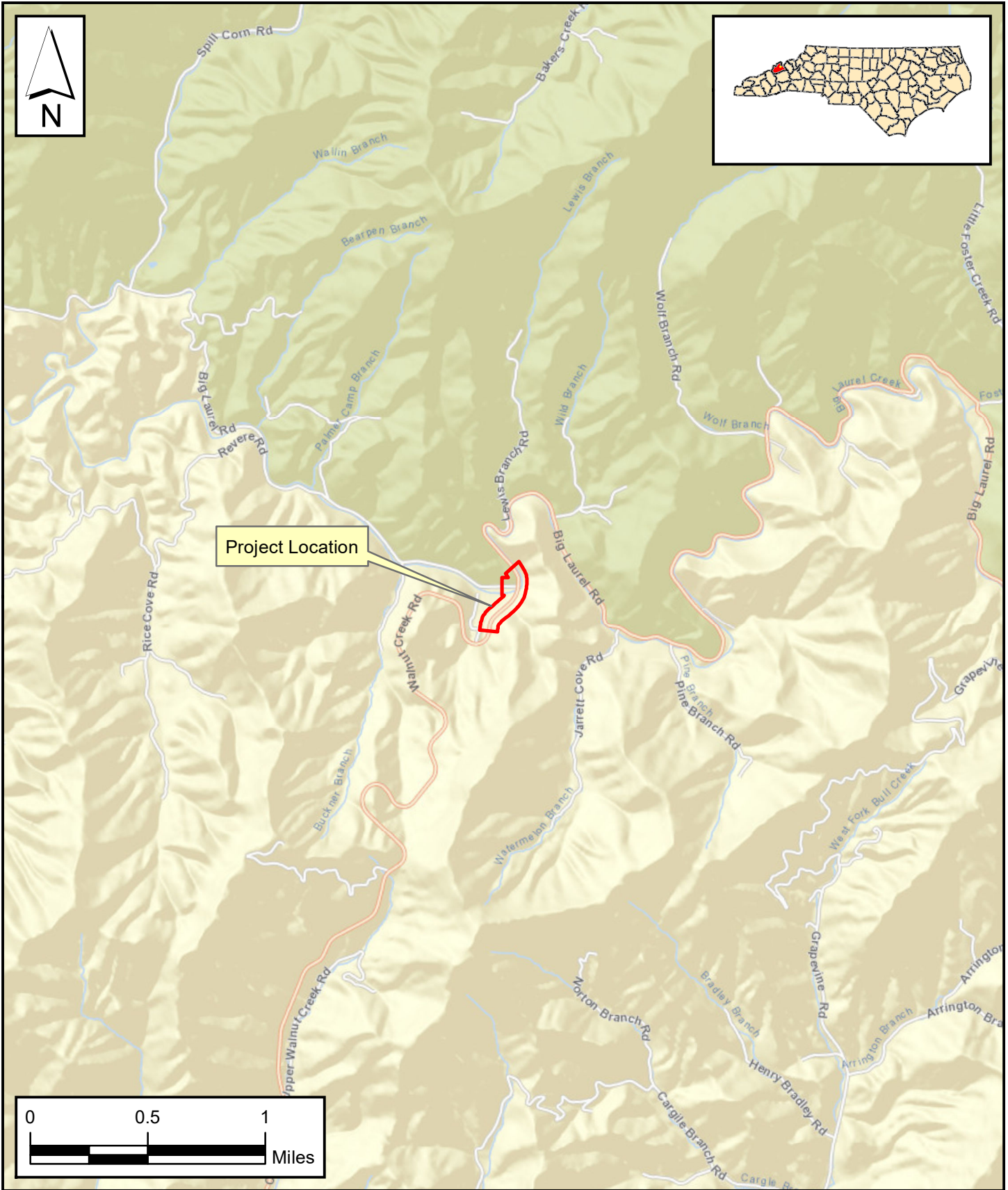
- Final design, tree clearing, and percussive activities information will be provided in the permit application, as noted in the project commitments.
- After completion of the project, the contract administrator for construction must submit the actual amount of tree clearing reported in tenths of acres. This information should be submitted to Chris Manley in the EAU Biological Surveys Group ([cdmanley@ncdot.gov](mailto:cdmanley@ncdot.gov)).

**Big Laurel Baptist Church (NCDOT Division 13)**

- Due to the location of the temporary signals to be used, NCDOT Division 13 staff will, prior to construction, coordinate with Big Laurel Baptist Church and the project's contractor regarding general public access restrictions (in the form of moveable barriers) to the church's property and parking lot.

**Section 7 Biological Assessment (NCDOT Biological Surveys Group)**

- *Based upon recent evidence of potential bat roosting on this bridge, NCDOT Biological Surveys Group anticipates preparing a Biological Assessment in 2022 to address species listed by the U.S. Fish and Wildlife Service (USFWS) for Madison County under the Endangered Species Act of 1973, including the Gray and Northern Long-Eared bats.*



NORTH CAROLINA  
DEPARTMENT  
OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**VICINITY MAP  
REPLACE BRIDGE 71  
ON SR 1395 (WALNUT CREEK RD)  
OVER BIG LAUREL CREEK**

MADISON COUNTY  
NORTH CAROLINA

County:	MADISON
Div:	13   STIP# B-5989
WBS:	47845.1.1
Date:	OCTOBER 2019

**Figure  
1**



09.02B/299

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

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

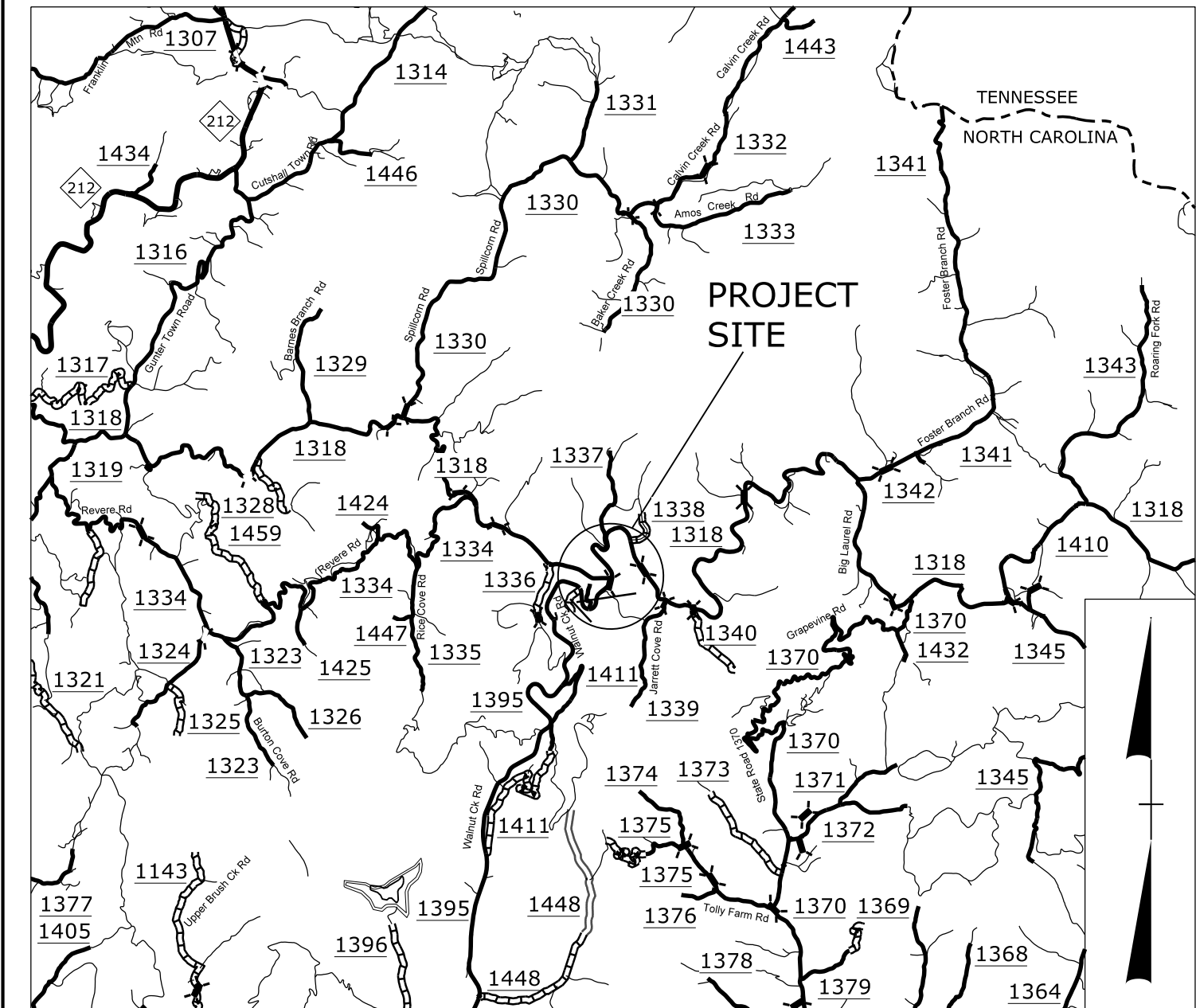
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	<b>B-5989</b>	<b>1</b>	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47845.1.1	N/A	PE	
47845.2.1	BRZ-1395(007)	ROW&UTIL	

**MADISON COUNTY**

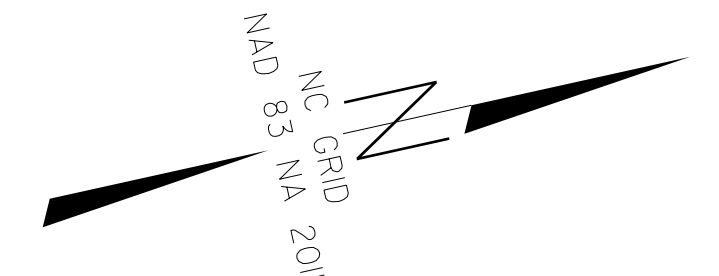
**LOCATION: BRIDGE NO. 71 ON SR 1395 (WALNUT CREEK RD)  
OVER BIG LAUREL CREEK**  
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, RETAINING WALL  
AND STRUCTURE.**

**ROW PLANS**

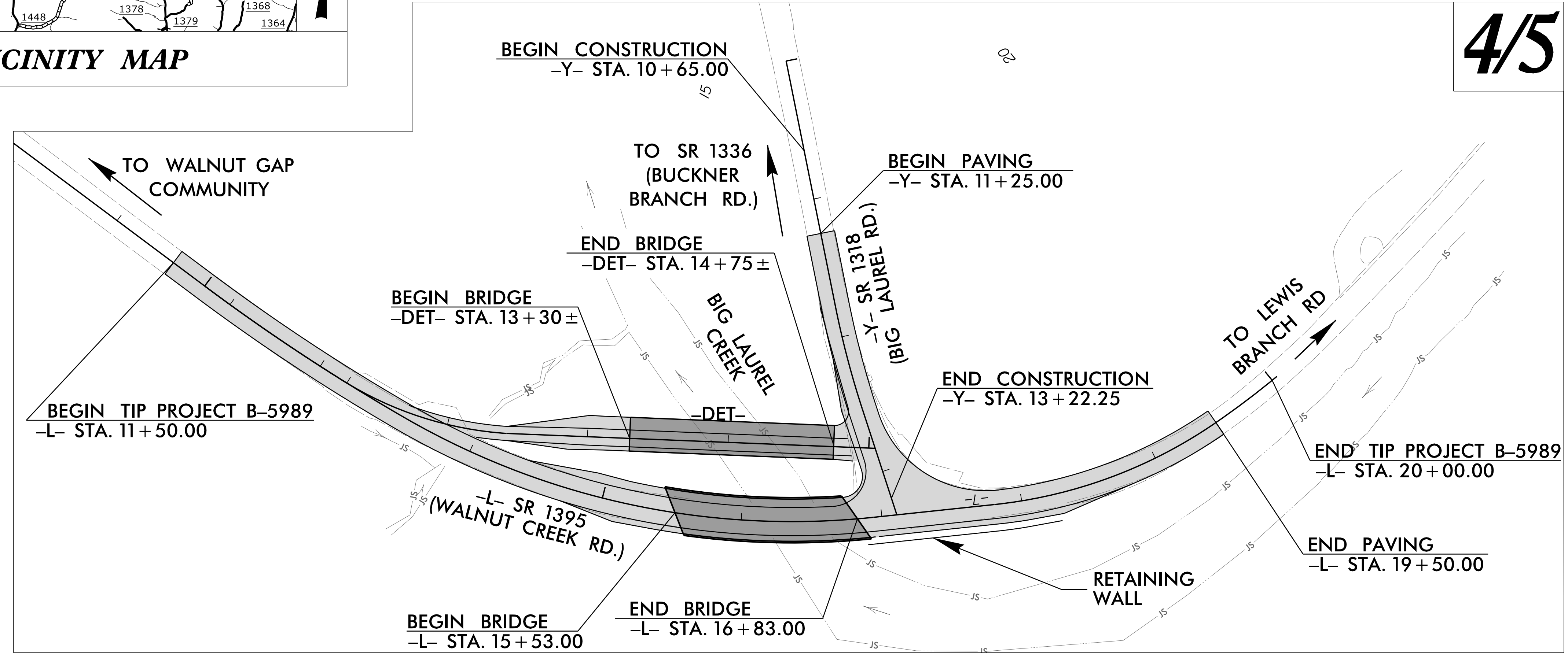
**TIP PROJECT: B-5989**



**VICINITY MAP**



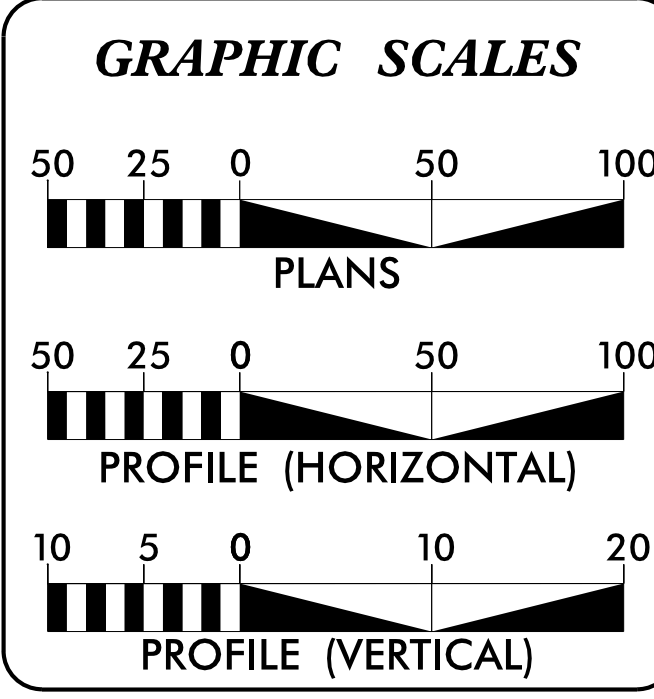
**4/5**



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

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2020 =	740
ADT 2040 =	900
K =	10 %
D =	60 %
T =	3 % *
V =	40 MPH
* TTST = 1% DUAL 2%	
FUNC CLASS =	MINOR COLLECTOR
	SUB REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY PROJECT =	0.136 MILES
LENGTH STRUCTURES PROJECT =	0.025 MILES
TOTAL LENGTH PROJECT =	0.161 MILES

**NCDOT CONTACT:** DAVID STUTTS, PE  
PROJECT MANAGER

Prepared in the Office of:

**SUMMIT**  
DESIGN AND ENGINEERING SERVICES  
FIRM NO. P-0339

320 Executive Ct.  
Hillsborough, NC 27278-8551  
Voice: (919) 732-3883  
Fax: (919) 732-6776  
www.summitde.net

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
MARCH 20, 2020

**LETTING DATE:**  
JANAURY 18, 2022

**JAMES A. SPEER, PE**  
PROJECT ENGINEER

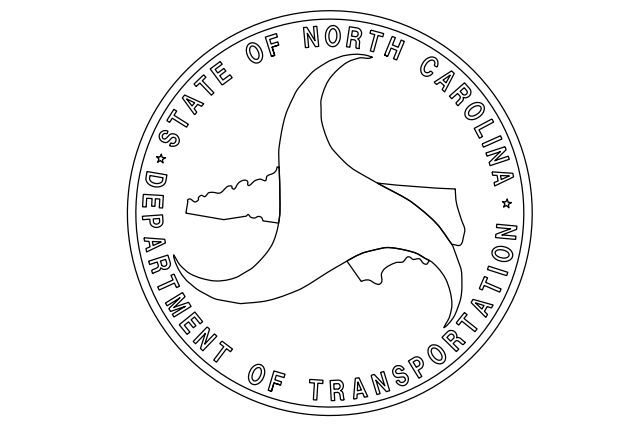
**BRANDON W. JOHNSON, PE**  
PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



**PARCEL INDEX**

PARCEL NO.	OWNER	TYPE	AREA (SF)	AREA (AC)
1	JOHN MERKEL DB 310 PG 696	ROW	2515.96	0.058
1	JOHN MERKEL DB 310 PG 696	TCE	13936.00	0.320
1	JOHN MERKEL DB 310 PG 696	PDE	1782.86	0.041
2	DARYL TALTON DB 444 PG 144	ROW	1792.87	0.041
2	DARYL TALTON DB 444 PG 144	PDE	711.13	0.016
3	MARY GENTRY DB 237 PG 381	ROW	672.63	0.015
3	MARY GENTRY DB 237 PG 381	TCE	1470.08	0.034
4	CHURCHES IN MADISON CO. DB 84 PG 203	ROW	1280.32	0.029
4	CHURCHES IN MADISON CO. DB 84 PG 203	TCE	7242.37	0.166
4	CHURCHES IN MADISON CO. DB 84 PG 203	PDE	2894.13	0.066

NOTE: THE PROPOSED RIGHT OF WAY AND EASEMENT AREAS SHOWN ARE PRELIMINARY AND REPRESENT AN APPROXIMATE AREA OF TAKING. NCDOT RIGHT OF WAY BRANCH WILL DETERMINE THE FINAL AREAS FOR ACQUISITION WITH THE PROPERTY OWNERS

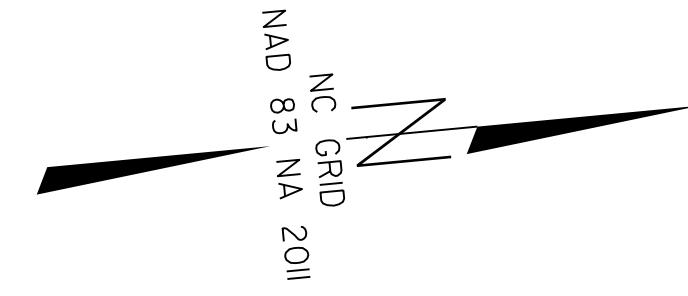
PROJECT REFERENCE NO. <b>B-5989</b>	SHEET NO. <b>4</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

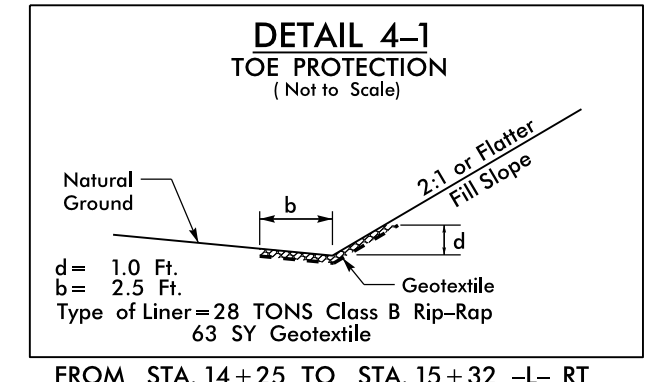
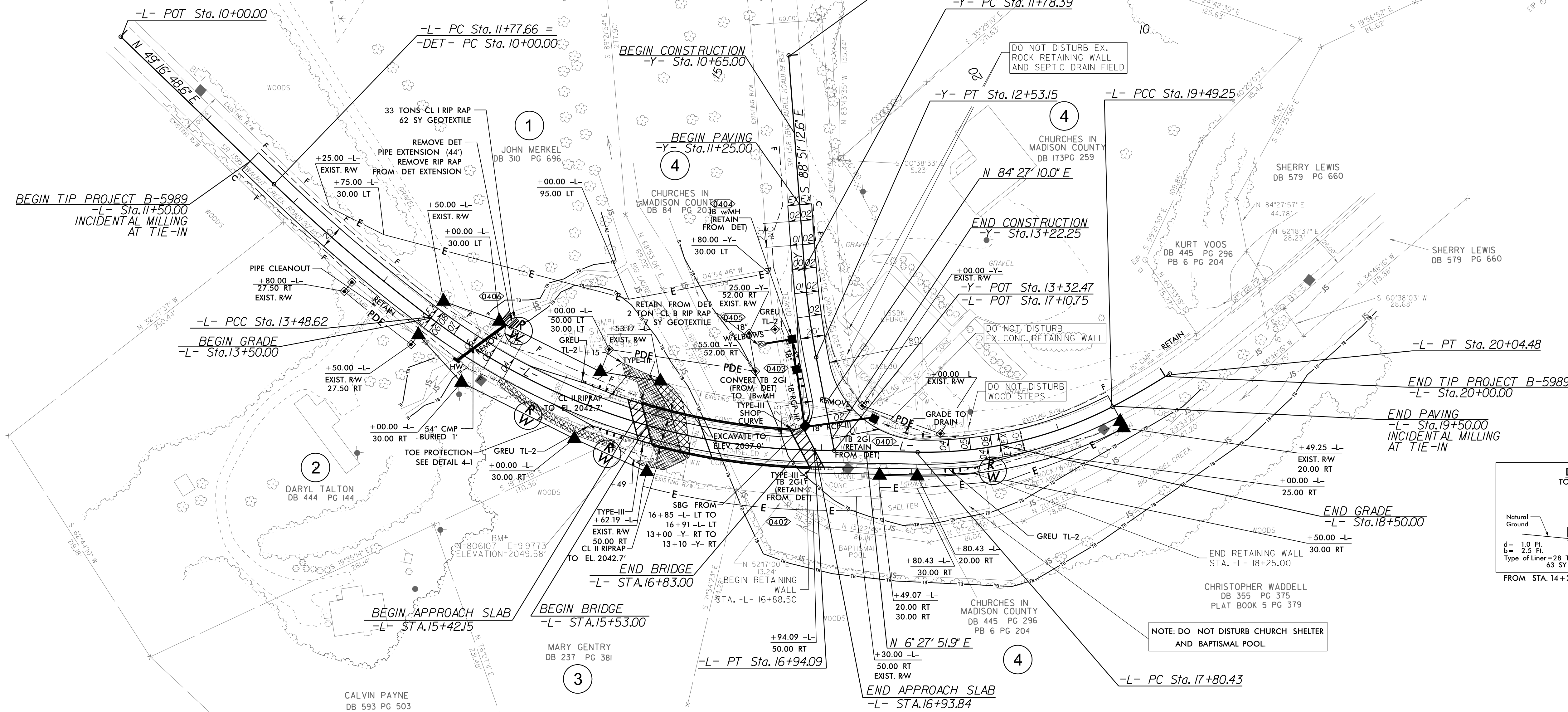
Prepared in the Office of: **SUMMIT**

NC FIRM LICENSE NO: P-0339  
320 Executive Ct.  
Hillsborough, NC 27278  
(919) 332-3883  
(919) 732-6676 (FAX)

SEE SHEET 6 FOR -L- AND -Y- PROFILES



REVISIONS



NOTE: ALL PIPES AND STRUCTURE EXCEPT 0403 IN DRAINAGE NETWORK 0401-0404 ARE BEING RETAINED FROM DETOUR CONSTRUCTION. 0403 IS BEING CONVERTED TO JBWMH

NOTE: PIPE REMOVALS ALSO SHOWN ON FSHS

NOTE: DITCHES WERE NOT ADDED ON THE LT SIDE OF -Y- AND -L- TO AVOID IMPACTING EXISTING ROCK WALL & CHURCH

<p>PI Sta 12+63.24 Δ = 6' 49' 34.0" (LT) D = 3' 59' 33.9" L = 170.96' T = 85.58' R = 1,435.00' SE = EXIST.</p>	<p>PI Sta 15+27.27 Δ = 35' 59' 22.8" (LT) D = 10' 25' 02.7" L = 345.48' T = 178.65' R = 550.00' SE = 04 RO = 72' DS = 40mph</p>	<p>PI Sta 18+66.62 Δ = 28' 26' 57.0" (LT) D = 16' 51' 06.1" L = 168.82' T = 86.19' R = 340.00' SE = EXIST DS = 30mph</p>	<p>PI Sta 19+76.89 Δ = 5' 14' 49.8" (LT) D = 9' 30' 00.0" L = 55.23' T = 27.64' R = 603.11' SE = EXIST.</p>	<p>PI Sta 12+15.81 Δ = 6' 41' 37.3" (LT) D = 8' 57' 08.9" L = 74.77' T = 37.43' R = 640.00' SE = 04 RO = 80'</p>
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PROJECT REFERENCE NO.	SHEET NO.
B-5989	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**DOCUMENT NOT CONSIDERED FINAL  
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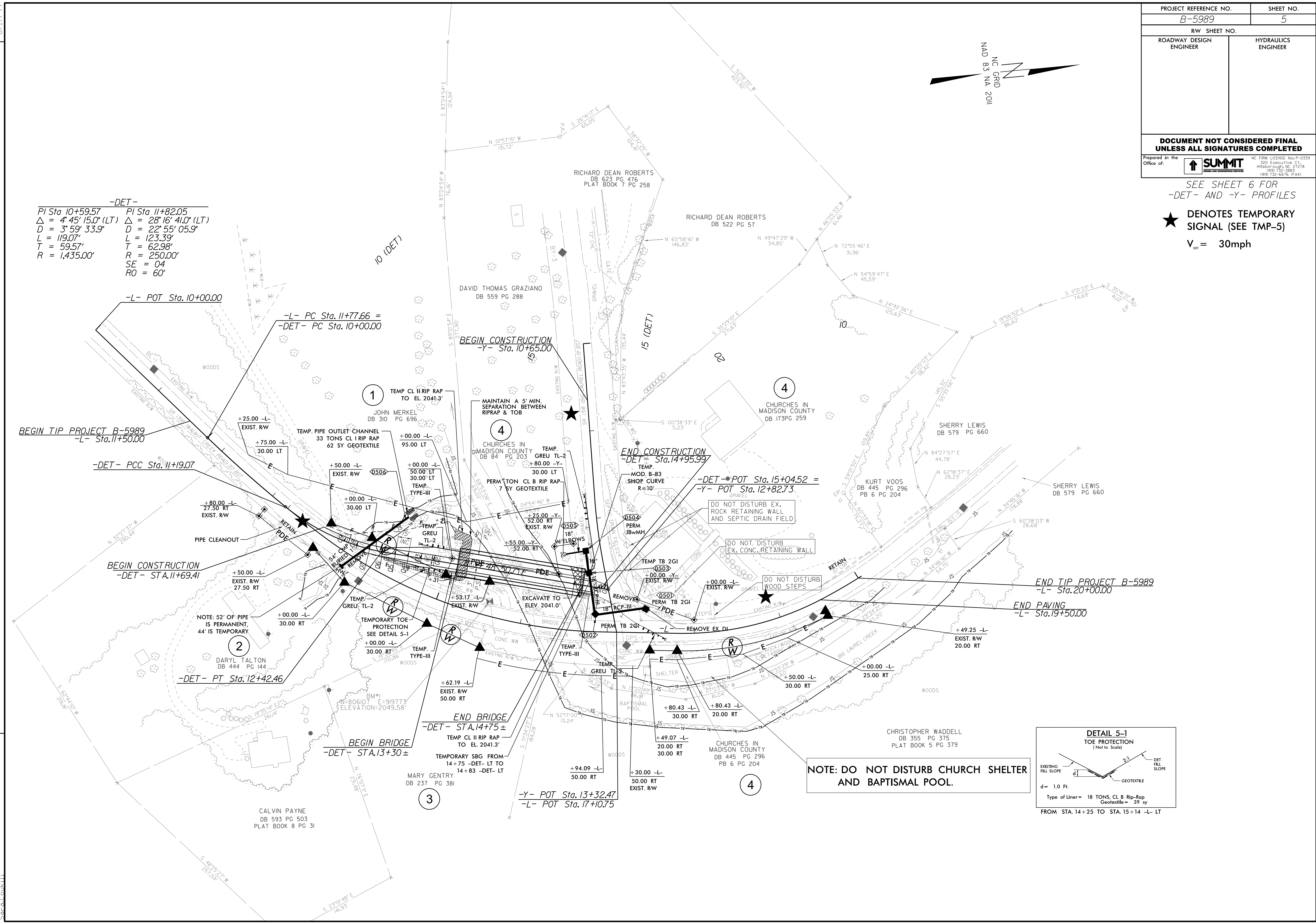
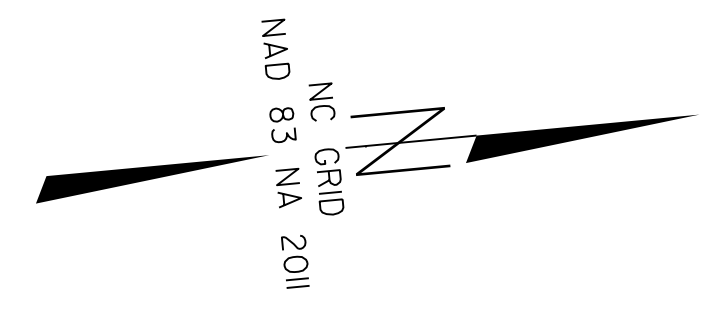


SEE SHEET 6 FOR  
-DET- AND -Y- PROFILES

★ DENOTES TEMPORARY SIGNAL (SEE TMP-5)

V<sub>DES</sub> = 30mph

-DET-  
 PI Sta 10+59.57 PI Sta 11+82.05  
 $\Delta = 4^{\circ}45'15.0''$  (LT)  $\Delta = 28^{\circ}16'41.0''$  (LT)  
 $D = 3^{\circ}59'33.9''$   $D = 22^{\circ}55'05.9''$   
 $L = 119.07'$   $L = 123.39'$   
 $T = 59.57'$   $T = 62.98'$   
 $R = 1,435.00'$   $R = 250.00'$   
 $SE = 04$   
 $RO = 60'$



REVISIONS

10-MAR-2020 14:02  
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