

Project Submittal Interim Form



Updated September 4, 2020

*Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.*

- Project Type: ***
- For the Record Only (Courtesy Copy)
 - New Project
 - Modification/New Project with Existing ID
 - More Information Response
 - Other Agency Comments
 - Pre-Application Submittal
 - Re-Issuance\Renewal Request
 - Stream or Buffer Appeal

Pre-Filing Meeting Date Request was submitted on:

4/29/2022

Is this supplemental information that needs to be sent to the Corps? *

- Yes No

Project Contact Information

Name: Deanna Riffey
Who is submitting the information?

Email Address: * driffey@ncdot.gov

Project Information

Existing ID #: *

20221000
20170001 (no dashes)

Existing Version: *

1
1

Project Name: * Replacement of Bridge #29 on US 64 Alternate over the Tar River

Is this a public transportation project? *

- Yes
 No

Is this a DOT project? *

- Yes
 No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

- Yes No Unknown

TIP#:
B-5670

WBS#:
45625.3.1
(Applies to DOT projects only)

County (ies) *

Nash

Please upload all files that need to be submitted.

[Click the upload button or drag and drop files here to attach document](#)

B-5670 Wetland_Stream_Impact_Permits.pdf 5.82MB

[Only pdf or kmz files are accepted.](#)

Describe the attachments or add comments:

The USACE pointed out that revisions were needed to allow drainage from the JS channel adjacent to the road to flow into the Tar River. The attached revised permit drawings reflect that change.

* By checking the box and signing box below, I certify that:

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, the project proponent, hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I agree that submission of this online form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the online form.

Signature: *



Mack C. Rivenbark, III

Submittal Date:

8/12/2022

[Is filled in automatically once submitted.](#)

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS										
(Version 3.00; Released August 2021)												
WBS Element: 45625.1.1		TIP/Proj No: B-5670		County(ies): Nash		Page 1 of 4						
General Project Information												
WBS Element:	45625.1.1		TIP Number:	B-5670		Project Type:	Bridge Replacement	Date:	8/11/2022			
NCDOT Contact:	Kristy Alford			Contractor / Designer:				Leah Young, PE				
	Address:	1000 Birch Ridge Dr Raleigh, NC 27610			Address:	4505 Falls of Neuse Road Suite 400 Raleigh, NC 27609						
	Phone:	(919) 707-6488			Phone:	(919) 783-9214						
	Email:	kalford@ncdot.gov			Email:	Leah.Young@kci.com						
City/Town:	None			County(ies):	Nash							
River Basin(s):	Tar-Pamlico			CAMA County?	No							
Wetlands within Project Limits?	No											
Project Description												
Project Length (lin. miles or feet):	0.22		Surrounding Land Use:	Woods/rural residential								
	Proposed Project				Existing Site							
Project Built-Upon Area (ac.)	1.0		ac.		0.8		ac.					
Typical Cross Section Description:	12' TRAVEL LANES WITH 6' PAVED SHOULDER AT BRIDGE; 39.25' OUT TO OUT				APPROXIMATE 12' TRAVEL LANES WITH 2' PAVED SHOULDER							
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	3200		Year:	2040		Existing:	2591		Year:	2020	
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project will replace Nash County Bridge #0029 and its approaches. The proposed replacement is 325' long with a clear roadway width of 36'. This structure provides 2-12' travel lanes with a 6' paved shoulder. The proposed bridge will have 1.5:1 sloping riprap abutments and 4' caps at the end bents. Placement and construction of the proposed bridge, end bents, caps, and associated roadway fill will not result in any permanent jurisdictional stream or similar environmental impacts, although there will be 0.21 ac and 104 LF of temporary stream impact for temporary causeway construction. There will be no permanent channel changes due to the bent removal and causeway construction. There will be 0.03 ac and 62 LF of permanent stream impacts due to bank stabilization. There are no wetlands present within the proposed limits of construction.</p> <p>The temporary causeway shall be constructed by others. Allowable stream impacts shown in the plans assume a temporary rock causeway using 2:1 side slopes to achieve an elevation of 145.0' for the line-back side of the bridge (labeled as phase I) and an elevation of 145.0' for the line-ahead side of the bridge (labeled as phase II). This results a 30 LF workpad to facilitate existing bridge removal and proposed bridge installation. Phase I allows for removal of existing bents #1, 2, 3, & 4 and the installation of proposed bents #1 & 2. Phase II allows for the removal of existing bents #5, 6, 7, & 8 and the installation of proposed bents #3, 4, & 5. No more than 50% of the main channel flow area may be blocked during any phase.</p> <p>There are 30' and 50' buffer zones present outside the existing stream. There are no wetland impacts within buffer zones. There is a proposed ditch within buffer zone 1 due to existing erosion and instability. Sheet flow was not feasible at this location. The proposed ditch stabilizes the flow area and does not change existing flow patterns. Please refer to the "Swales" tab for more information.</p> <p>STORMWATER CONTROLS: The proposed bridge does not require deck drains. The runoff from the bridge discharges through pipe/inlet systems on the eastern quadrant of the bridge outside of the jurisdictional stream at non-erosive velocities. In all bridge quadrants, roadway runoff is treated via vegetated roadway shoulders and existing/proposed vegetated/riprap swales prior to entering the stream. Dissipator pads were used outside buffer zones when possible to promote sheet flow to buffer zones.</p>											



North Carolina Department of Transportation
 Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 45625.1.1 **TIP/Proj No.:** B-5670 **County(ies):** Nash **Page** 2 **of** 4

General Project Information

Waterbody Information

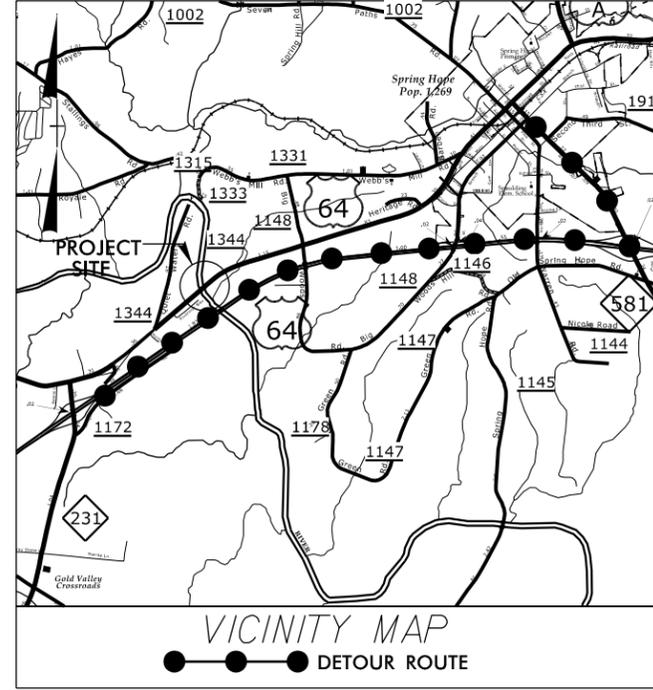
Surface Water Body (1):		Tar River		NCDWR Stream Index No.:		28-(24.7)b	
NCDWR Surface Water Classification for Water Body			Primary Classification:		Water Supply V (WS-V)		
			Supplemental Classification:		(NSW)		
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species?		No	Comments:				
NRTR Stream ID:		N/A		Buffer Rules in Effect:		Tar-Pamlico	
Project Includes Bridge Spanning Water Body?		Yes	Deck Drains Discharge Over Buffer?		No	Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)							

Surface Water Body (2):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body			Primary Classification:				
			Supplemental Classification:				
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)							

Surface Water Body (3):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body			Primary Classification:				
			Supplemental Classification:				
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)							

Submitted 8/12/2022

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
NASH COUNTY

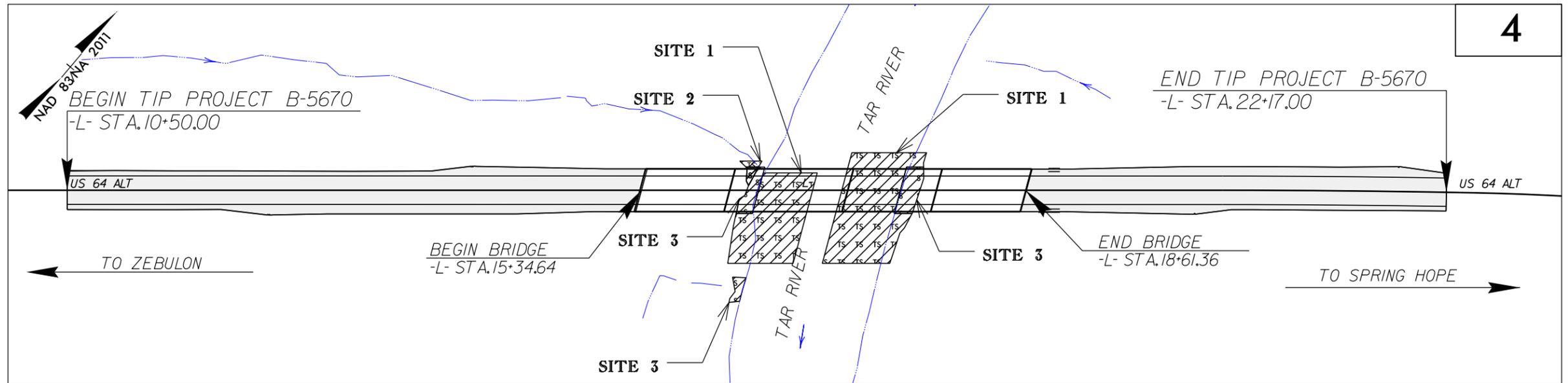
**PERMIT DRAWING
SHEET 1 OF 6**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5670	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45625.1.1		P.E.	
45625.2.1		ROWUTIL	
45625.3.1		CONSTR.	

LOCATION REPLACE BRIDGE NO. 29 OVER
TAR RIVER ON US 64 ALT

TYPE OF WORK GRADING, DRAINAGE, PAVING AND STRUCTURE

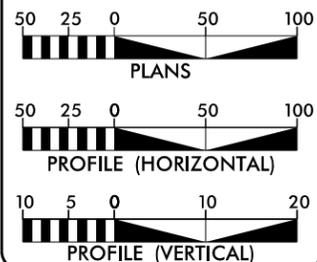
**WETLAND AND STREAM
IMPACTS**



A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE.

INCOMPLETE PLANS
DO NOT USE FOR ROW ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2022 = 2652
ADT 2042 = 3261
K = 8 %
D = 55 %
T = 6 % *
V = 60 MPH
* TTST = 2% DUAL = 4%
MAJOR COLLECTOR

REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5670 = .159 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5670 = .062 MILES
TOTAL LENGTH OF TIP PROJECT B-5670 = .221 MILES

Prepared in the Office of: **KCI Associates of N.C., P.A.**
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
Fax (919) 783-9266

Plans Prepared For: **DIVISION OF HIGHWAYS**
1000 Birch Ridge Dr.
Raleigh, NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: **DEC. 21, 2021**

LETTING DATE: **NOV. 15, 2022**

NCDOT CONTACT: **KRISTY ALFORD, P.E.**
STRUCTURES MANAGEMENT UNIT

Project Engineer: **DEWAYNE L. SYKES, P.E.**

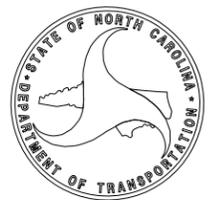
Project Design Engineer: **BRYAN E. HOUGH, P.E.**

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



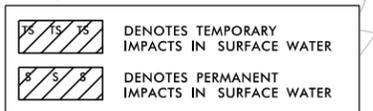
8/9/2022
M:\2018\251801945\23 B-5670\Hydraulics\PERMITS\Environmental\Wetland Impacts\Drawings\B-5670-prm-tsh.dgn
Mary.kegelm

CONTRACT: 204478 TIP PROJECT: B-5670

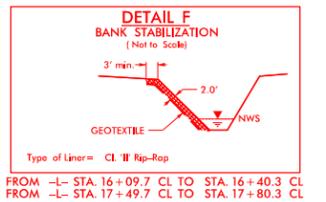
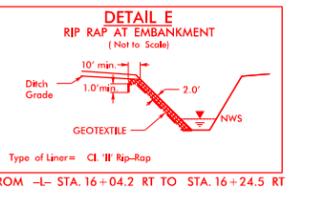
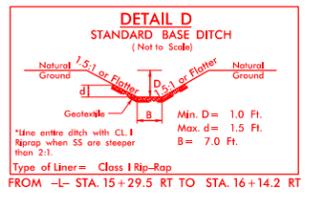
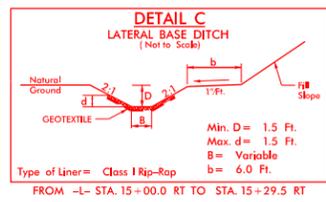
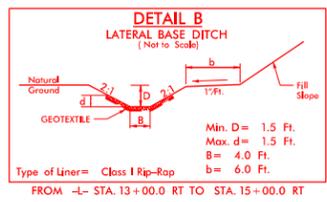
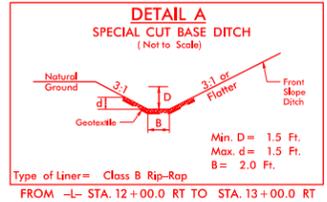
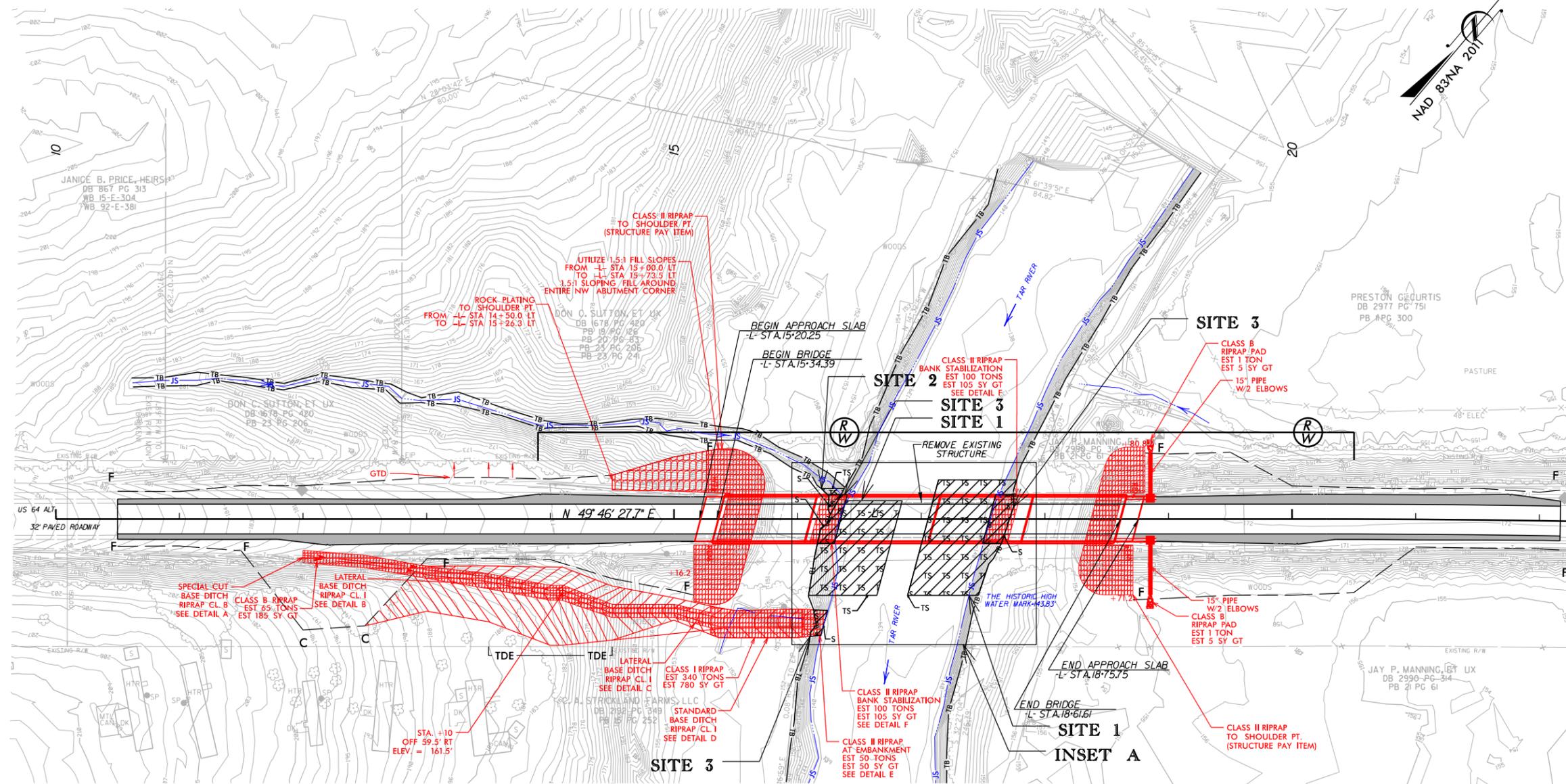
PERMIT DRAWING SHEET 3 OF 6

PROJECT REFERENCE NO. B-5670	SHEET NO. PRM-3
RW SHEET NO. 4	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	
<p>KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266</p>	

IMPACTS LEGEND



NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).



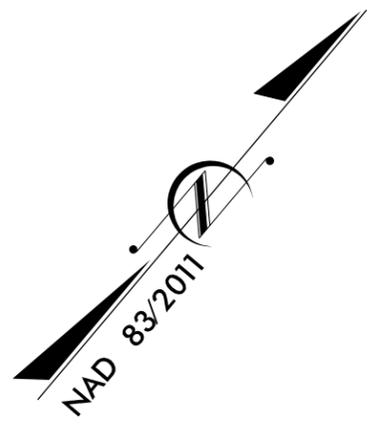
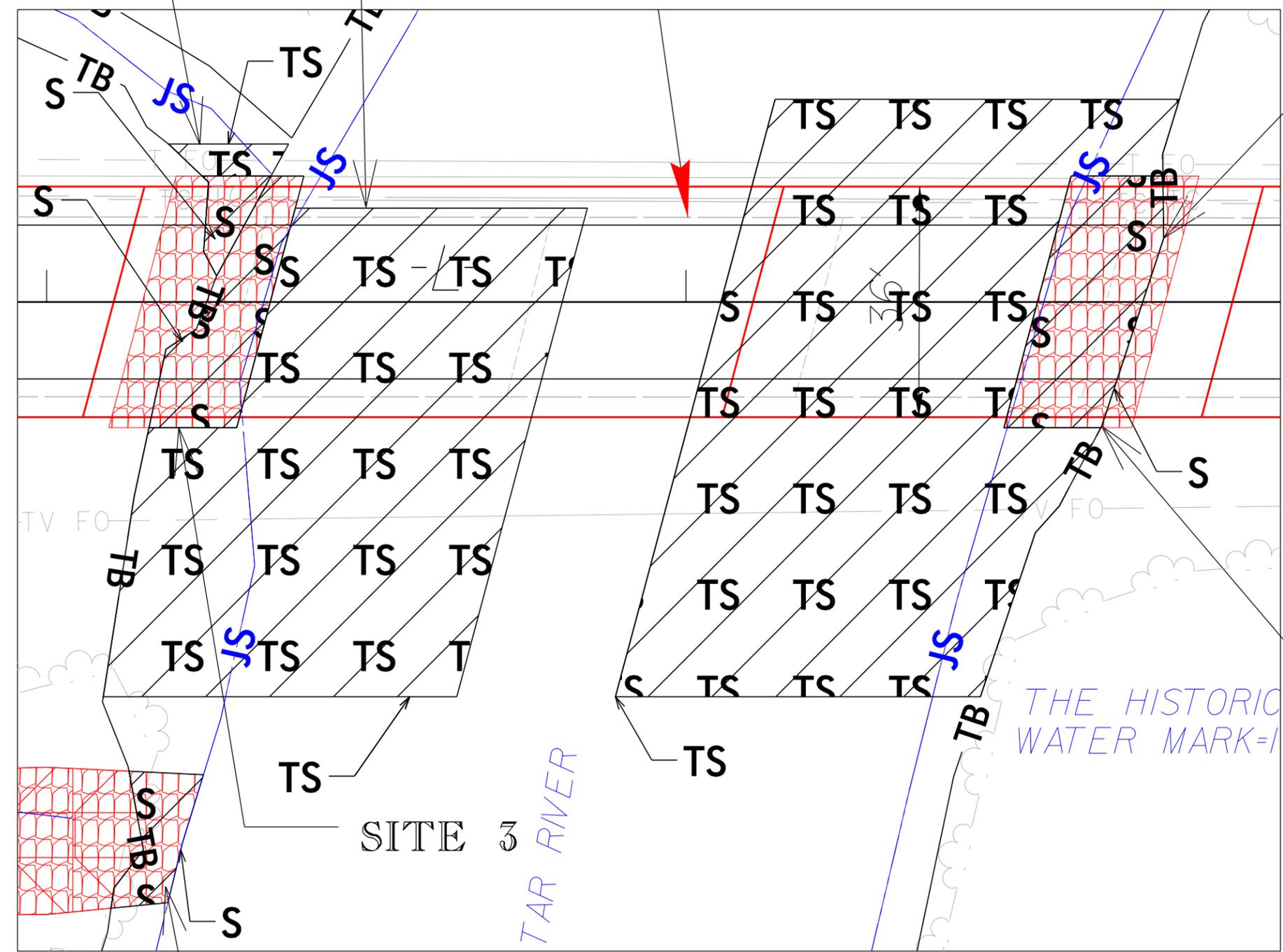
FOR -L- PROFILE SEE SHEET 5
FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-7

REVISIONS
 B:\2022\251801945.23 B-5670\Hydraulics\PERMITS\Environmental\Wetland Impacts\Drawings\B-5670_prm_psh_con.dgn
 8/17/99
 8/12/2022
 M:\2022\251801945.23 B-5670\Hydraulics\PERMITS\Environmental\Wetland Impacts\Drawings\B-5670_prm_psh_con.dgn

PROJECT REFERENCE NO. B-5670	SHEET NO. PRM-4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ROW ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 4 OF 6

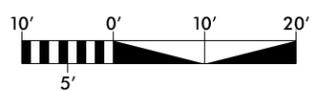
SITE 1 SITE 2 INSET A SITE 3



IMPACTS LEGEND

	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

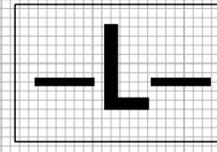
NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).



8/17/199
8/11/2022
S:\2018\251801945.23 B-5670\Hydraulics\PERMITS\Environmental\Wetland_Impacts\Drawings\B-5670_prm-Inset_A.dgn
MocunKarelin

PROJECT REFERENCE NO. B-5670	SHEET NO. PRM-5
ROADWAY DESIGN ENGINEER SEAL 036853 F. H. HAN	HYDRAULICS ENGINEER SEAL 033860 T. H. M. YOUNG
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

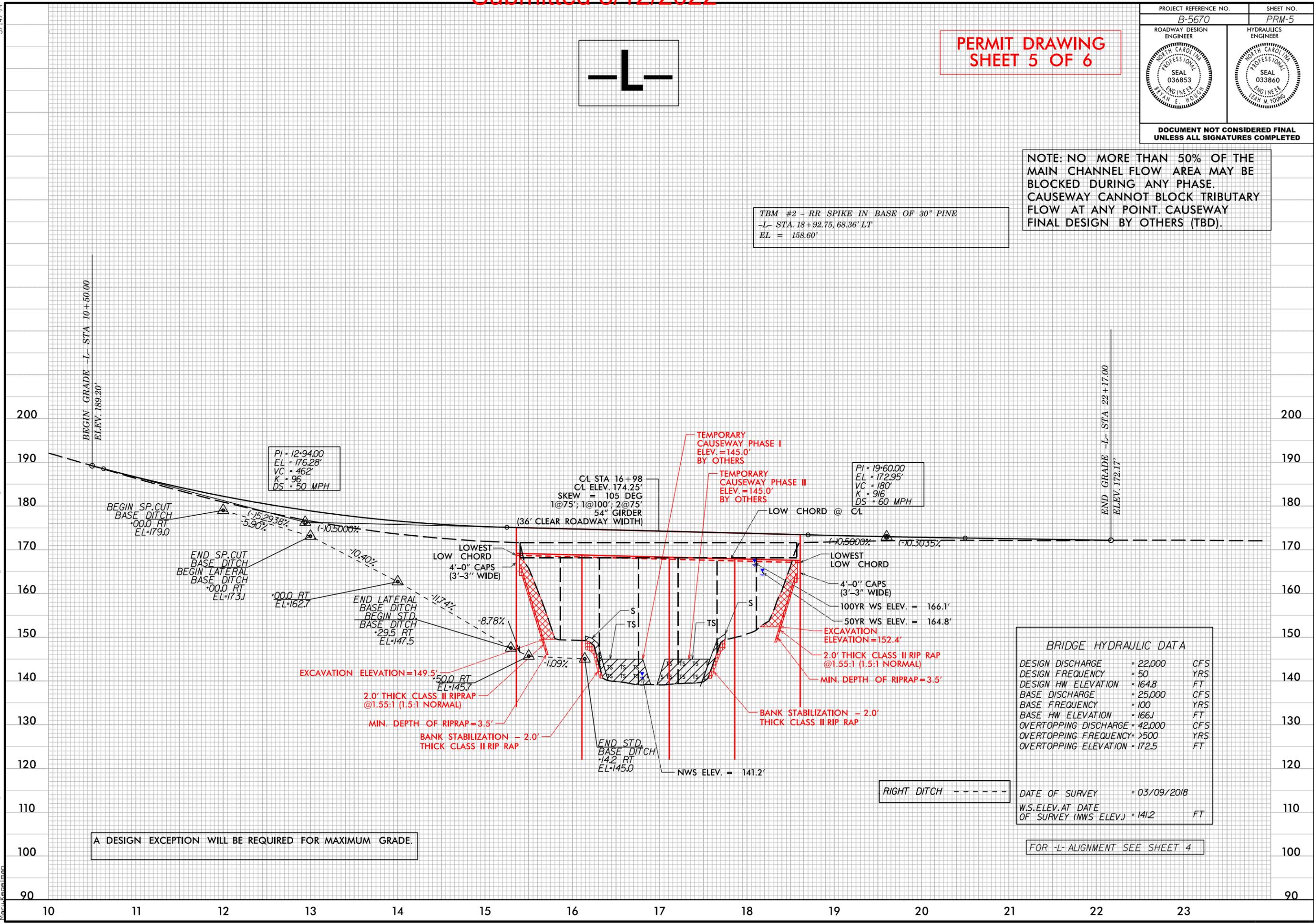
PERMIT DRAWING
SHEET 5 OF 6



NOTE: NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY CANNOT BLOCK TRIBUTARY FLOW AT ANY POINT. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).

TBM #2 - RR SPIKE IN BASE OF 30" PINE
-L- STA. 18 + 92.75, 68.36' LT
EL = 158.60'

5/14/99
B:\2022\251801945.23 B-5670\Hydraulics\PERMITS...Environmental\Wetland Impacts\Drawings\B-5670-prm-p1.dgn



BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 22,000	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 164.8	FT
BASE DISCHARGE	= 25,000	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 166.1	FT
OVERTOPPING DISCHARGE	= 42,000	CFS
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING ELEVATION	= 172.5	FT
DATE OF SURVEY	= 03/09/2018	
W.S. ELEV. AT DATE OF SURVEY (NWS ELEV.)	= 141.2	FT

A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE.

FOR -L- ALIGNMENT SEE SHEET 4

RIGHT DITCH - - - - -

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 16+09 TO 17+75	TEMPORARY CAUSEWAY CONSTRUCTION						0.21		97		
2	-L- 15+96 LT TO 16+38 LT	TEMPORARY CAUSEWAY CONSTRUCTION						< 0.01		7		
3	-L- 16+16 TO 17+75 & -L- 16+10 RT TO- 16+23 RT	BANK STABILIZATION						0.03		62		
TOTALS*:								0.03	0.21	62	104	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 August 2022
 Nash
 B-5670
 45625.1.1

SHEET 6 OF 6