

Project Submittal Interim Form



Updated June 20, 2017

*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: ***
- New Project
 - New Project with Existing ID
 - Pre-Application Submittal
 - More Information Response
 - Other Agency Comments
 - For the Record Only (Courtesy Copy)
 - Stream or Buffer Appeal

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

- Yes No

New Project - Please check the new project type if you are trying to submit a new project that needs an official approval decision.

Pre-Application Submittal - Please check the pre-application submittal if you just want feedback on your submittal and do not have the expectation that your submittal will be considered a complete application requiring a formal decision.

More Information Response - Please check this type if you are responding to a request for information from staff and you have an ID# and version for this response.

Other Agency Comments - Please check this if you are submitting comments on an existing project.

Project Contact Information

Name: Chris Rivenbark
Who is submitting the information?

Email Address: * crivenbark@ncdot.gov

Project Information

Existing ID #: * 20200544
20170001 (no dashes)

Existing Version: * 1

Project Name: * Bridge No. 93 on NC561 over Conoconnara Swamp (B-5662 Central)

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-5662

WBS#:

45617.1.1

(Applies to DOT projects only)

County (ies) *

Halifax

Please upload all files that need to be submitted.

Click the upload button or drag and drop files here to attach document

20200513_B-5662_Environmental_Permit_Plans 8.11MB
cr_edits.pdf

Only pdf or kmz files are accepted.

Describe the attachments:

Division 4 requested this modification to the permit authorization because, in their experience, and considering typical equipment utilized, they will need to allow the contractor access to the interior bents to enable driving the piles. This will add temporary surface water impacts to the foreseeable project footprint.

The additional pad downstream is shown because an area may be needed to set the girders for the bridge. The temporary impacts for the detour bridge are shown as they are because it is up to the contractor to propose the detour bridge layout and in the Division's best guess this could range from 1-3 interior bents which means temporary access could possibly be needed from both sides.

Division 4 prefers to allow the contractors the option of causeway or work bridge on projects where either might work. This doesn't restrict some contractors from bidding if they don't have work bridge resources. Minimization will take place during construction. Contractors typically do things that are most economical and time efficient within the confines of the permit and causeways are not very efficient at either. So, they will be utilized only if needed and at the smallest footprint needed.

If needed, for installation and removal, the limits of causeway riprap in the water will be delineated and quantified and that same footprint and quantity will be removed to the max extent possible. Turbidity curtains will be utilized to the maximum extent possible during both of these operations.

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

- o I have given true, accurate, and complete information on this form;
- o I agree that submission of this form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act")
- o 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");
- o I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- o I intend to electronically sign and submit the online form."

Signature: *



Submittal Date:

05/13/2020

Is filled in automatically once submitted.



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



(Version 2.07; Released October 2016)

WBS Element: 45617.1.1 TIP No.: B-5662 County(ies): Halifax Page 1 of 1

General Project Information

WBS Element:	45617.1.1	TIP Number:	B-5662	Project Type:	Bridge Replacement	Date:	5/11/2020
NCDOT Contact:	Tierre Peterson		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:	trpeterson@ncdot.gov			Email:	Leah.Young@kci.com	
City/Town:	None		County(ies):	Halifax			
River Basin(s):	Roanoke		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.20	Surrounding Land Use:	Wetlands/Rural Residential/Agricultural					
	Proposed Project			Existing Site				
Project Built-Upon Area (ac.)	0.7	ac.	0.6	ac.				
Typical Cross Section Description:	12' TRAVEL LANES WITH 4' PAVED SHOULDER AT BRIDGE; 35.25' OUT TO OUT			APPROXIMATE 11' TRAVEL LANES WITH 2' PAVED SHOULDER				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	1400	Year:	2040	Existing:	1150	Year:	2020
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project will replace Halifax County Bridge #0093 and its approaches. The proposed replacement is 110' long with a clear roadway width of 32'. This structure provides 2'-12' travel lanes with a 4' 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 jurisdictional stream or similar environmental impacts. There will be no permanent channel changes. There are wetlands present over the extent of the project. The removal of the existing structure, excavation under the bridge, placement of riprap for bank stabilization, and roadway fill results in 0.73 acres of permanent fill, <0.01 acres in excavation in wetlands, 0.17 acres of mechanized clearing, 0.02 acres and 92 linear feet of permanent surface water impacts, and 0.21 acres and 59 linear feet of temporary surface water impacts. Mechanized clearing will be limited to 5' off roadway fill. Additionally, there will be 0.07 acres of temporary fill and 0.20 acres of hand clearing in wetlands due to the construction of the detour bridge. STORMWATER CONTROLS: The proposed bridge does not require deck drains. The runoff from the bridge discharges through a pipe/inlet system in the northwest quadrant of the project outside of the jurisdictional stream at non-erosive velocities. In all bridge quadrants, roadway runoff is treated via vegetated roadway shoulder and existing vegetated swales prior to entering the stream.</p>							

Waterbody Information

Surface Water Body (1):	CONOCONNARA SWAMP		NCDWR Stream Index No.:	23-33				
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C						
	Supplemental Classification:	None						
Other Stream Classification:	None							
Impairments:	None							
Aquatic T&E Species?	No	Comments:						
NRTR Stream ID:	N/A						Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A		Dissipator Pads Provided in Buffer?			N/A
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
	(If yes, provide justification in the General Project Narrative)							

Revised 5/13/2020

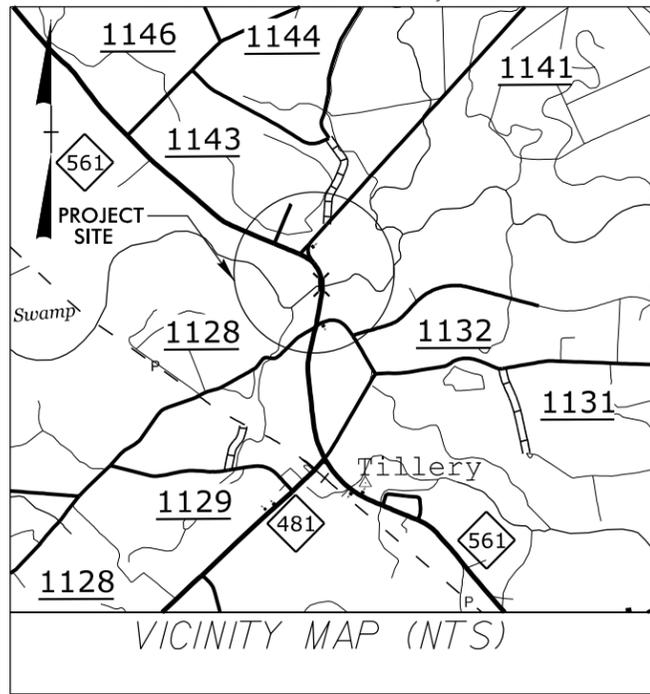
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PERMIT DRAWING
SHEET 1 OF 16

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5662	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45617.1.1		P.E.	
45617.2.1		ROW/UTIL	
45617.3.1		CONSTR.	

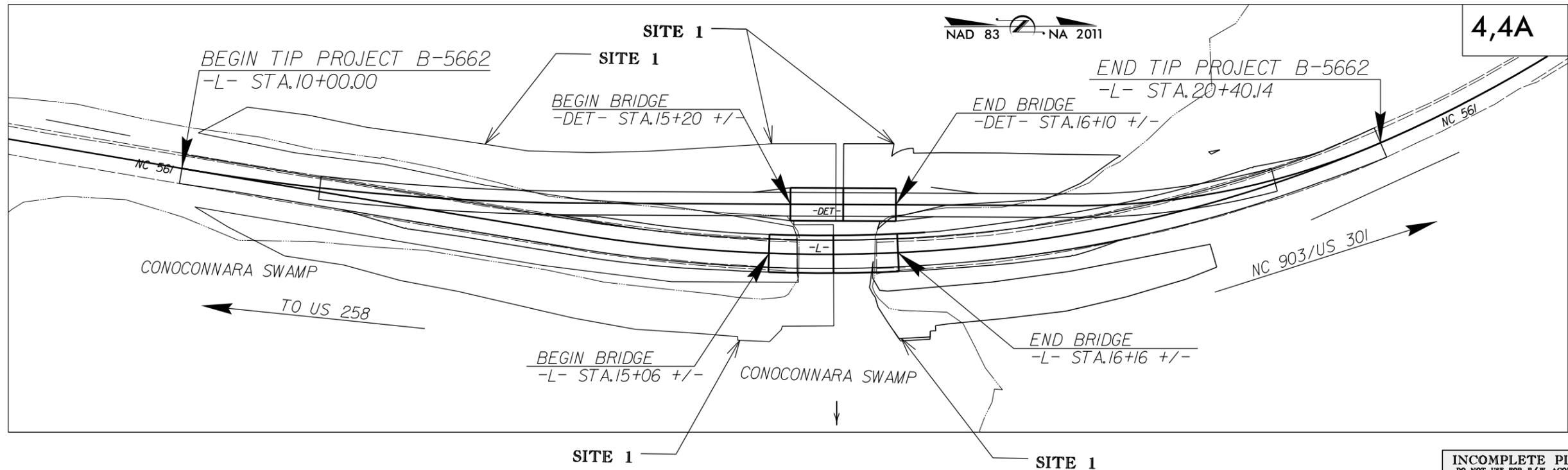
TIP PROJECT: B-5662



LOCATION: REPLACE BRIDGE NO. 93 OVER
CONOCONNARA SWAMP ON NC 561

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

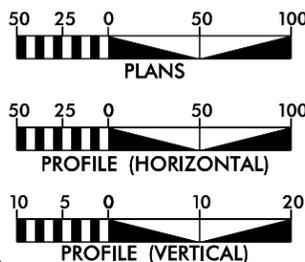
WETLAND AND STREAM
IMPACTS



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

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2020 = 1150
ADT 2040 = 1400
K = 10 %
D = 55 %
T = 12 % *
V = 60 MPH
V DET = 45 MPH
* TTST = 5% DUAL 7%
MAJOR COLLECTOR
REGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-5662 = .176 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5662 = .021 MILES
TOTAL LENGTH OF TIP PROJECT B-5662 = .197 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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 19, 2019

LETTING DATE:
JUNE 26, 2020

NCDOT CONTACT:

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

DEWAYNE L. SYKES, P.E.
PROJECT ENGINEER

BRYAN E. HOUGH, P.E.
PROJECT DESIGN ENGINEER

KRISTY ALFORD, P.E.
STRUCTURES MANAGEMENT UNIT

HYDRAULICS ENGINEER



SIGNATURE:

ROADWAY DESIGN ENGINEER



SIGNATURE:

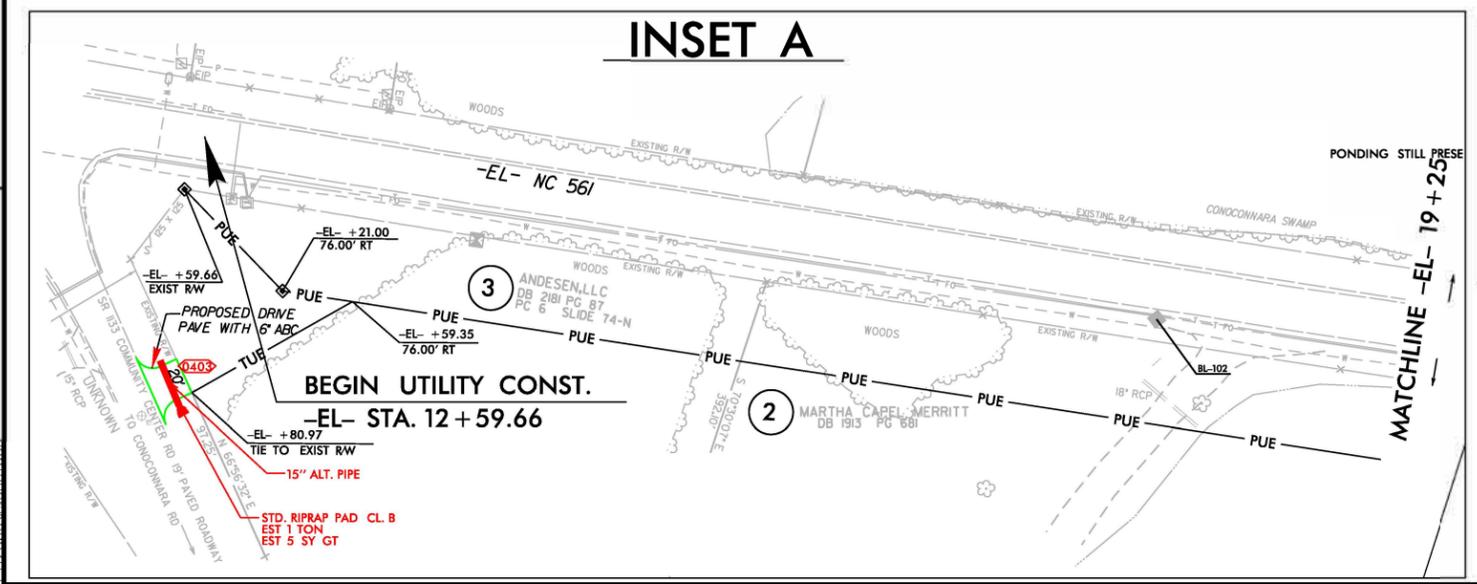
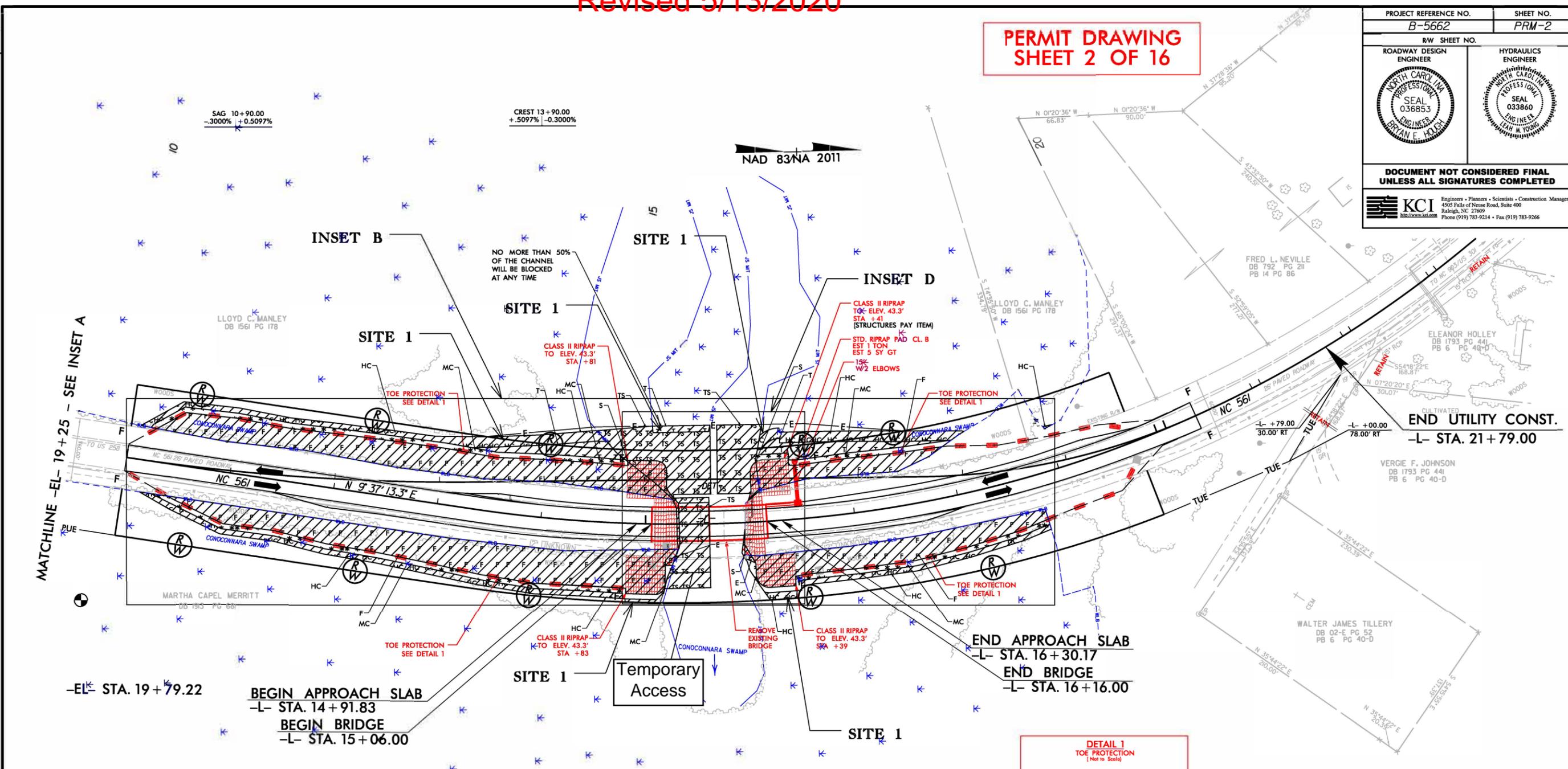


5/11/2020
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Elizabeth Sheldon

CONTRACT: C204489

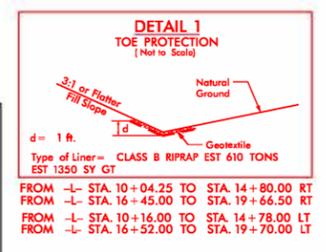
PERMIT DRAWING
SHEET 2 OF 16

PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-2
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 036860
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER



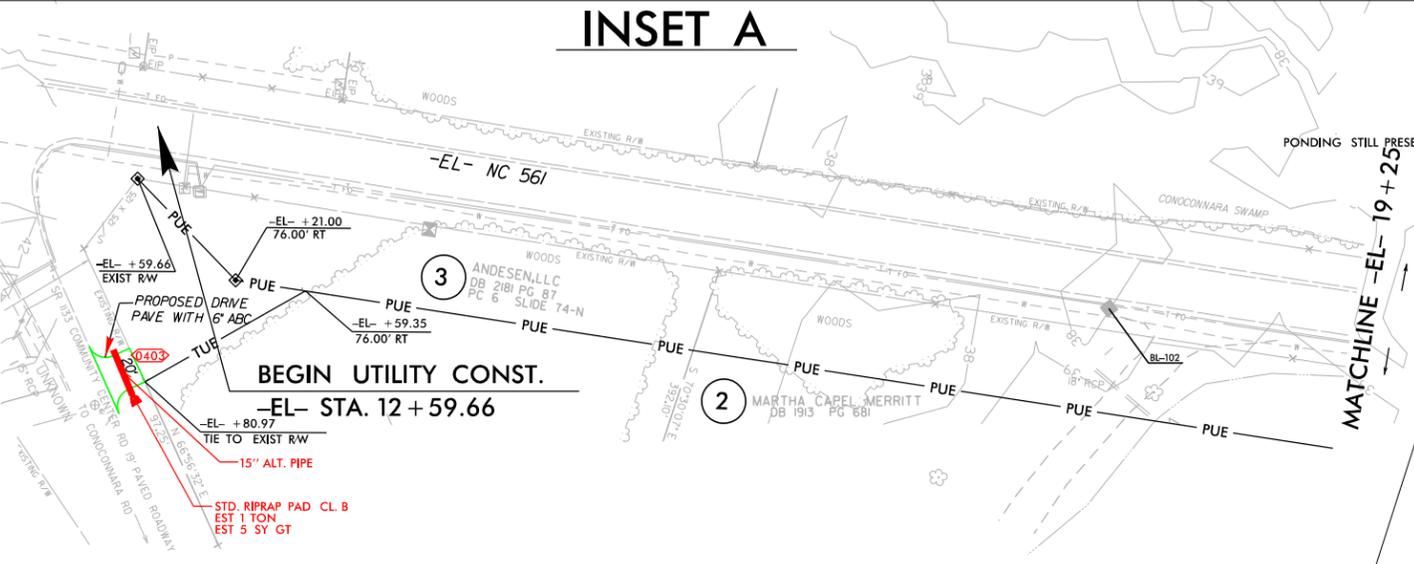
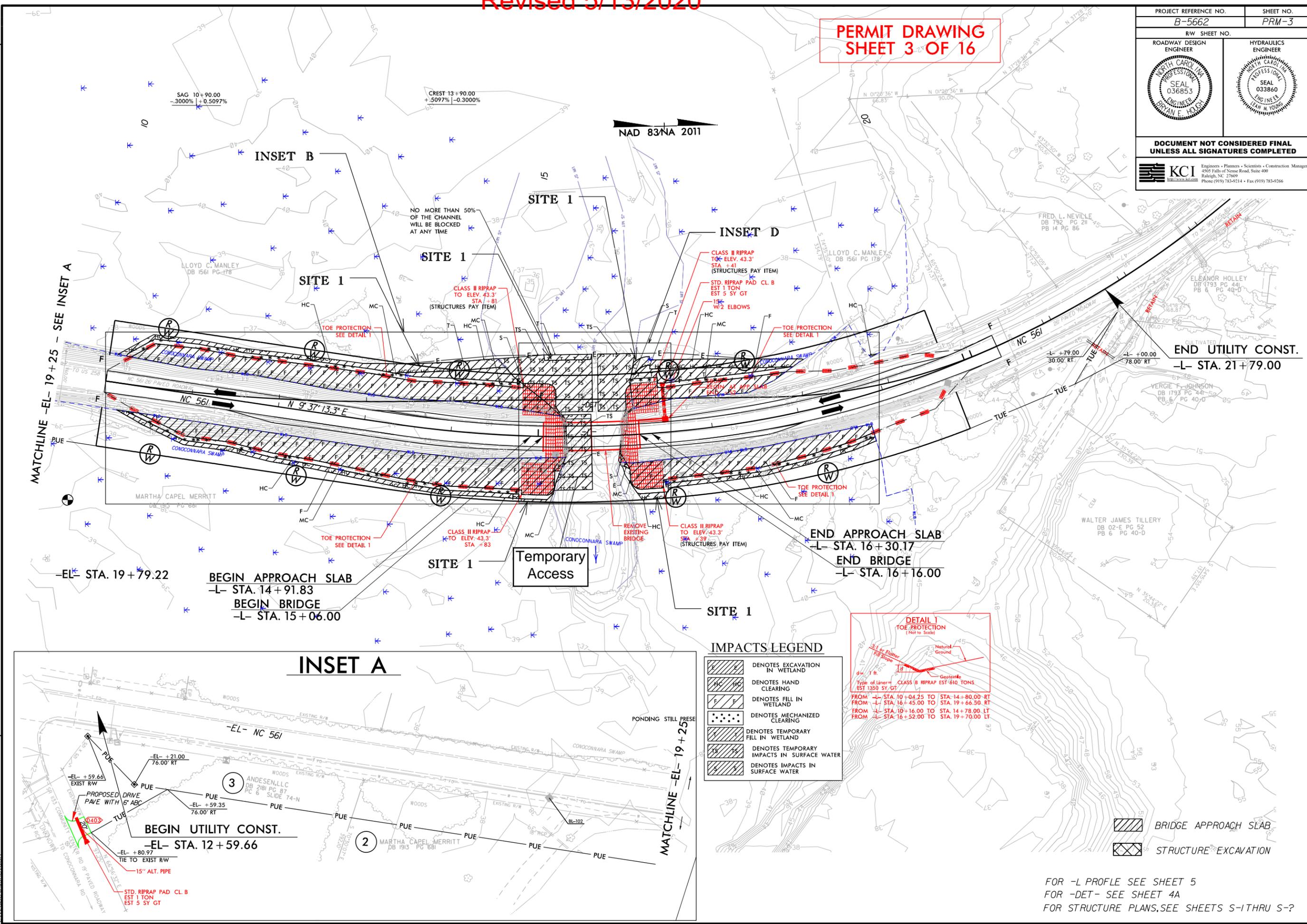
- BRIDGE APPROACH SLAB
- STRUCTURE EXCAVATION

FOR -L- PROFILE SEE SHEET 5
FOR -DET- SEE SHEET 4A
FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-7

REVISIONS
 12/17/2019 - Revised PUE and TUE limits on parcel 2 and added PUE and TUE to parcel number 3 due revised water line design.
 5/1/2020
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 Elizabeth Shelton

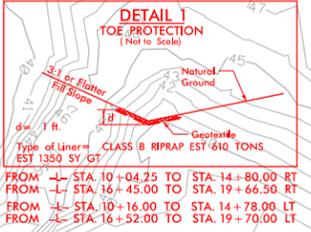
PERMIT DRAWING SHEET 3 OF 16

PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-3
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
KCI Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266	



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER



BRIDGE APPROACH SLAB
 STRUCTURE EXCAVATION

FOR -L- PROFILE SEE SHEET 5
 FOR -DET- SEE SHEET 4A
 FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-7

REVISIONS
 12/17/2019 - Revised PUE and TUE limits on parcel 2 and added PUE and TUE to parcel number 3 due revised water line design.
 5/11/2020
 Elizabeth Sheldon

8/17/99

5/11/2020
 Elizabeth Sheldon
 12/17/2019 - Revised PUE and TUE limits on parcel 2 and added PUE and TUE to parcel number 3 due revised water line design.
 Environmental Drawings Wetland B-5662-prm_psh_03.dgn

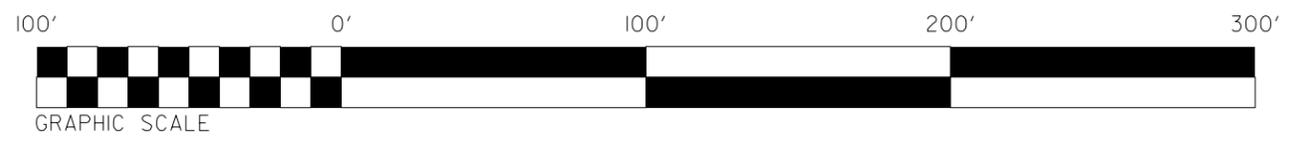
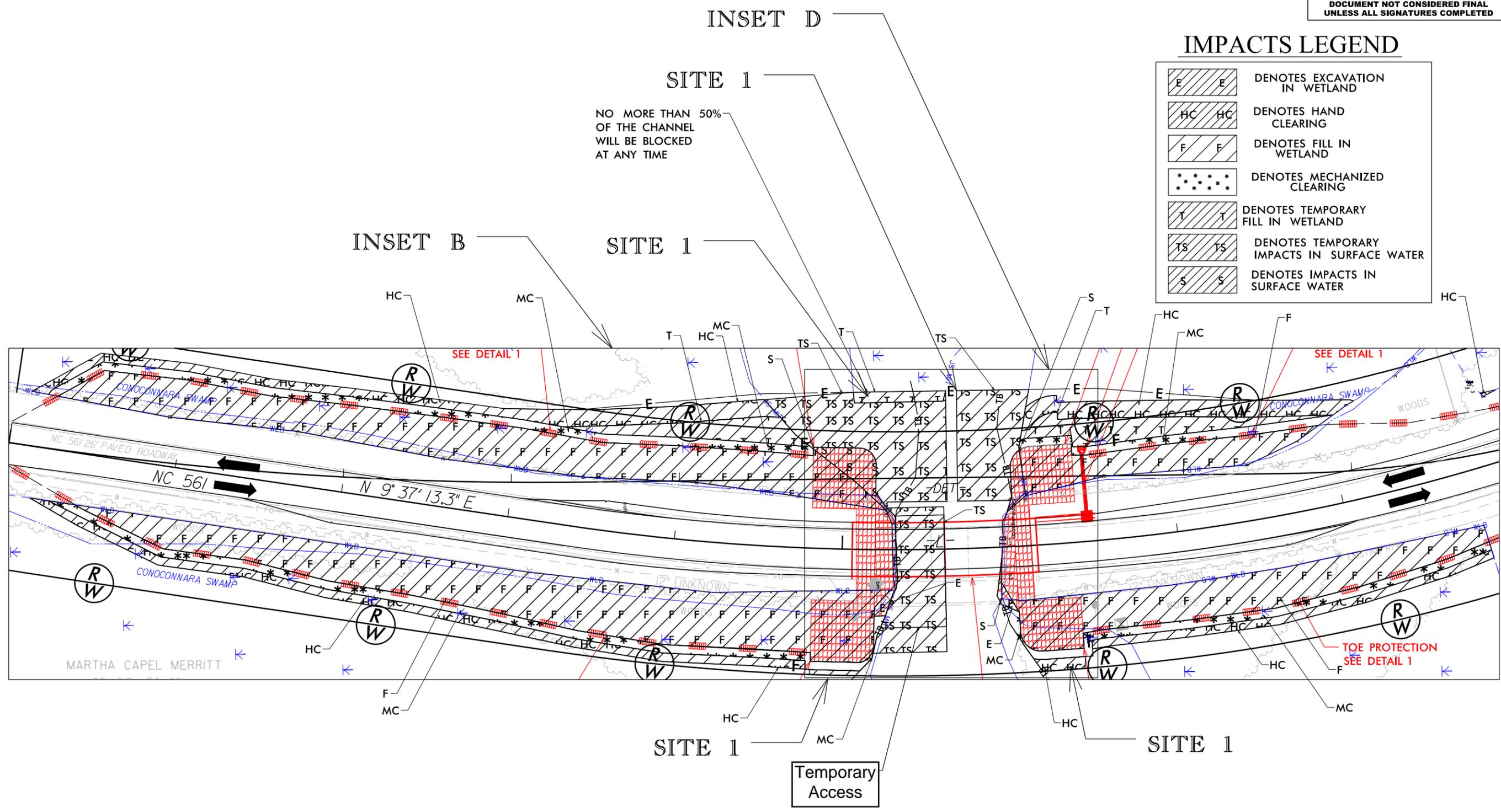
PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 4 OF 16



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER

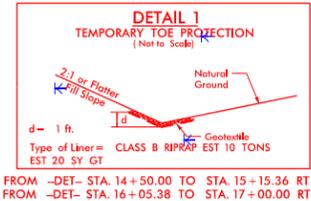
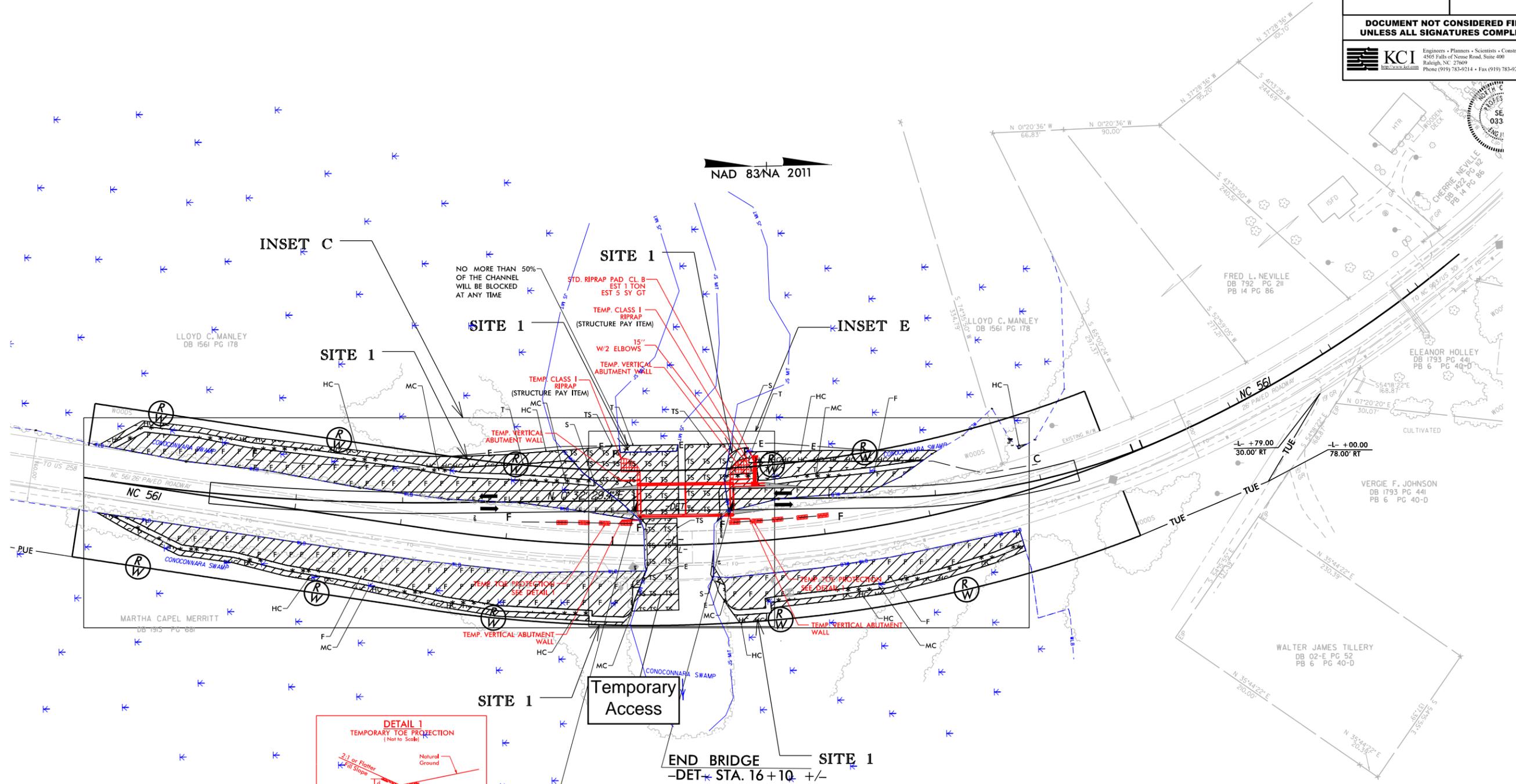


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 Elizabeth Sheldon

PROJECT REFERENCE NO. B-5662		SHEET NO. PRM-6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI <small>Engineers • Planners • Scientists • Construction Managers</small> <small>4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266</small>		<small>SE 033</small> 	

**PERMIT DRAWING
SHEET 6 OF 16**

REVISIONS



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER

FOR -DET- PROFILE SEE SHEET 5A
FOR -L- DESIGN SEE SHEET 4

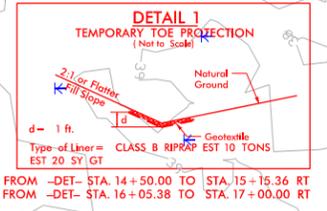
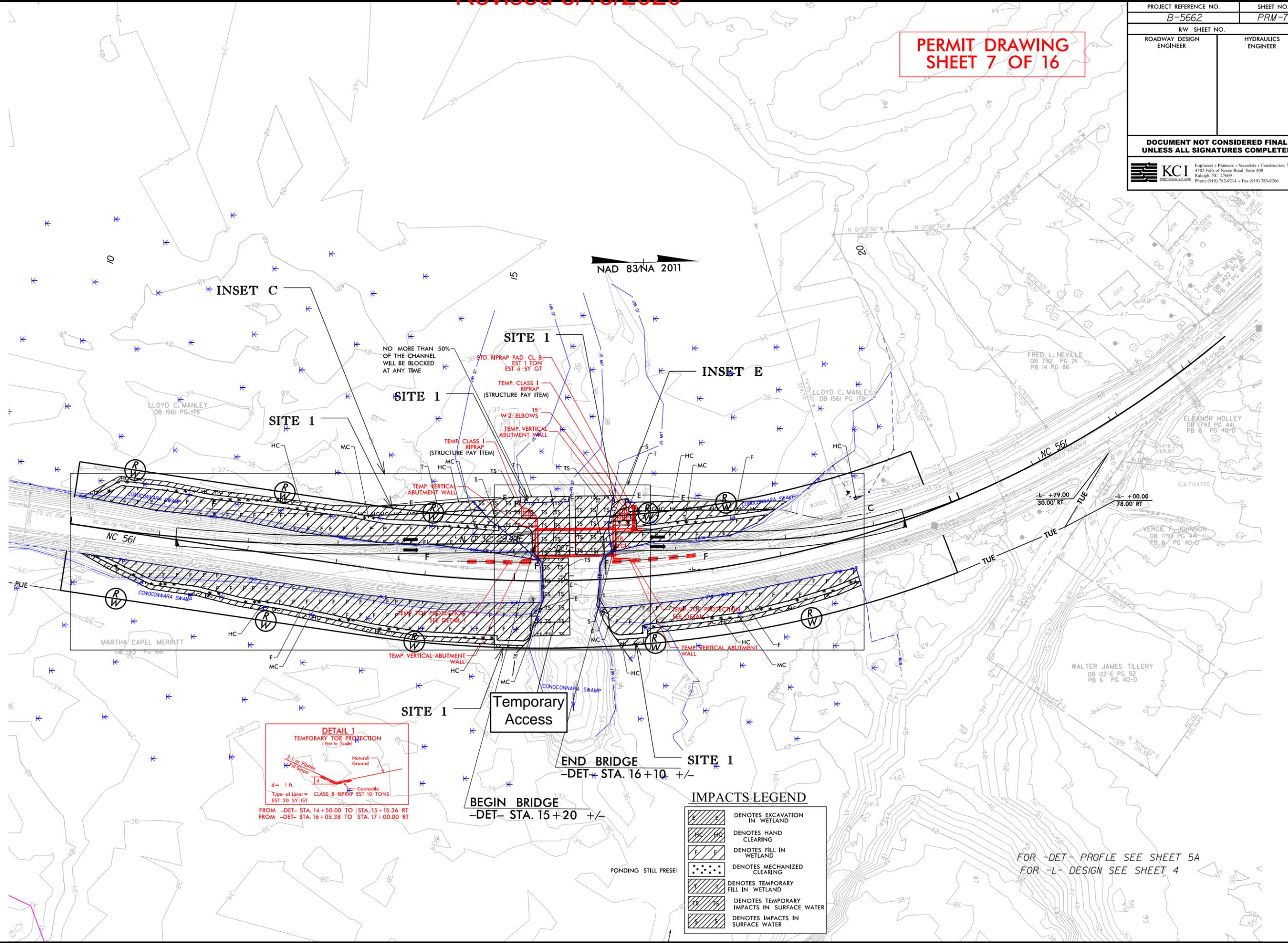
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Elizabeth Sheldon

PROJECT REFERENCE NO. B-5662		SHEET NO. PRM-7	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI <small>Engineers • Planners • Scientists • Construction Managers</small> <small>4505 Falls of Neuse Road, Suite 400</small> <small>Raleigh, NC 27609</small> <small>Phone (919) 783-9214 • Fax (919) 783-9266</small>			

**PERMIT DRAWING
SHEET 7 OF 16**

REVISIONS

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Elizabeth Sheldon



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER

FOR -DET- PROFILE SEE SHEET 5A
FOR -L- DESIGN SEE SHEET 4

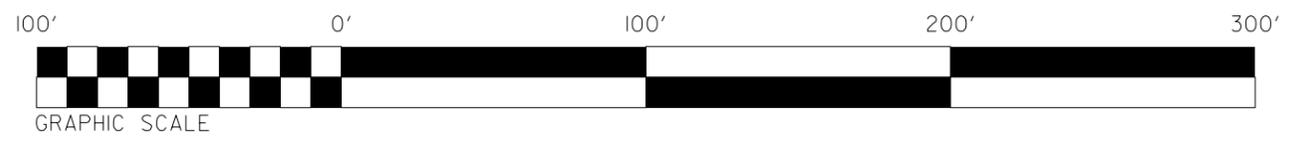
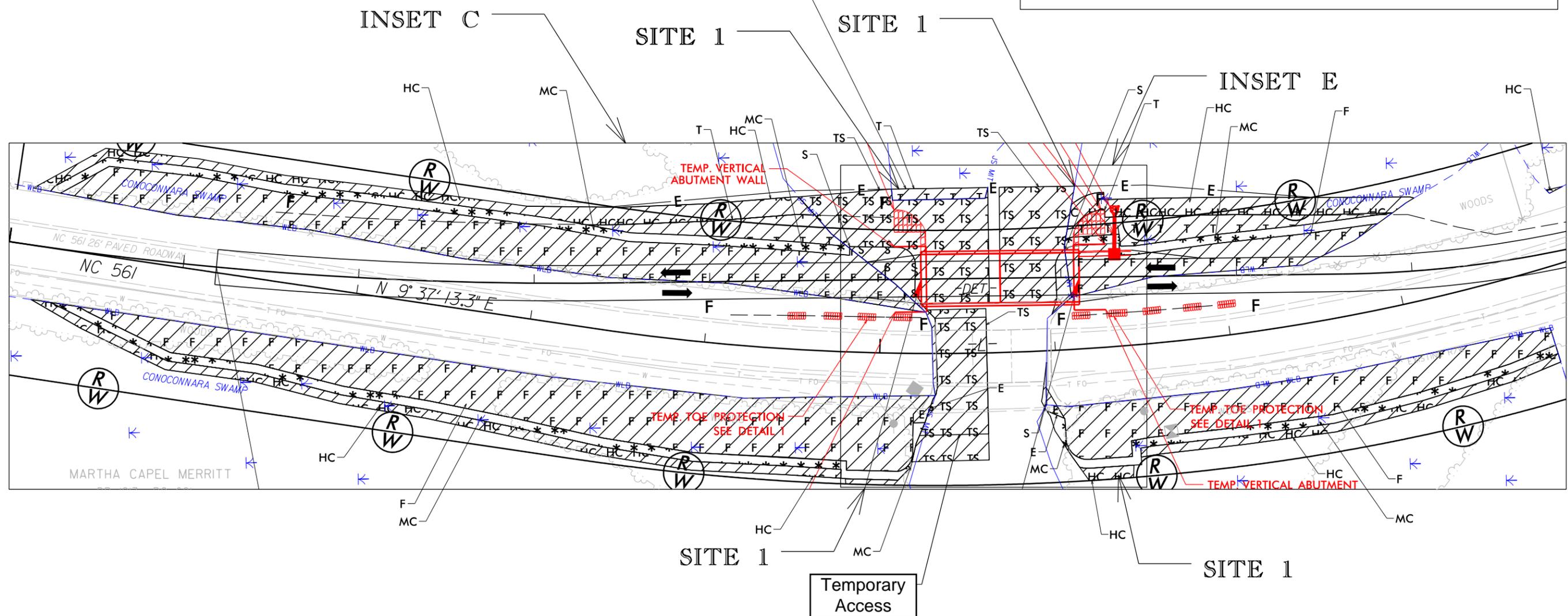
PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



IMPACTS LEGEND

	DENOTES EXCAVATION IN WETLAND		DENOTES MECHANIZED CLEARING
	DENOTES HAND CLEARING		DENOTES TEMPORARY FILL IN WETLAND
	DENOTES FILL IN WETLAND		DENOTES IMPACTS IN SURFACE WATER
			DENOTES TEMPORARY IMPACTS IN SURFACE WATER

NO MORE THAN 50% OF THE CHANNEL WILL BE BLOCKED AT ANY TIME

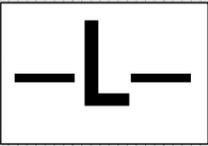


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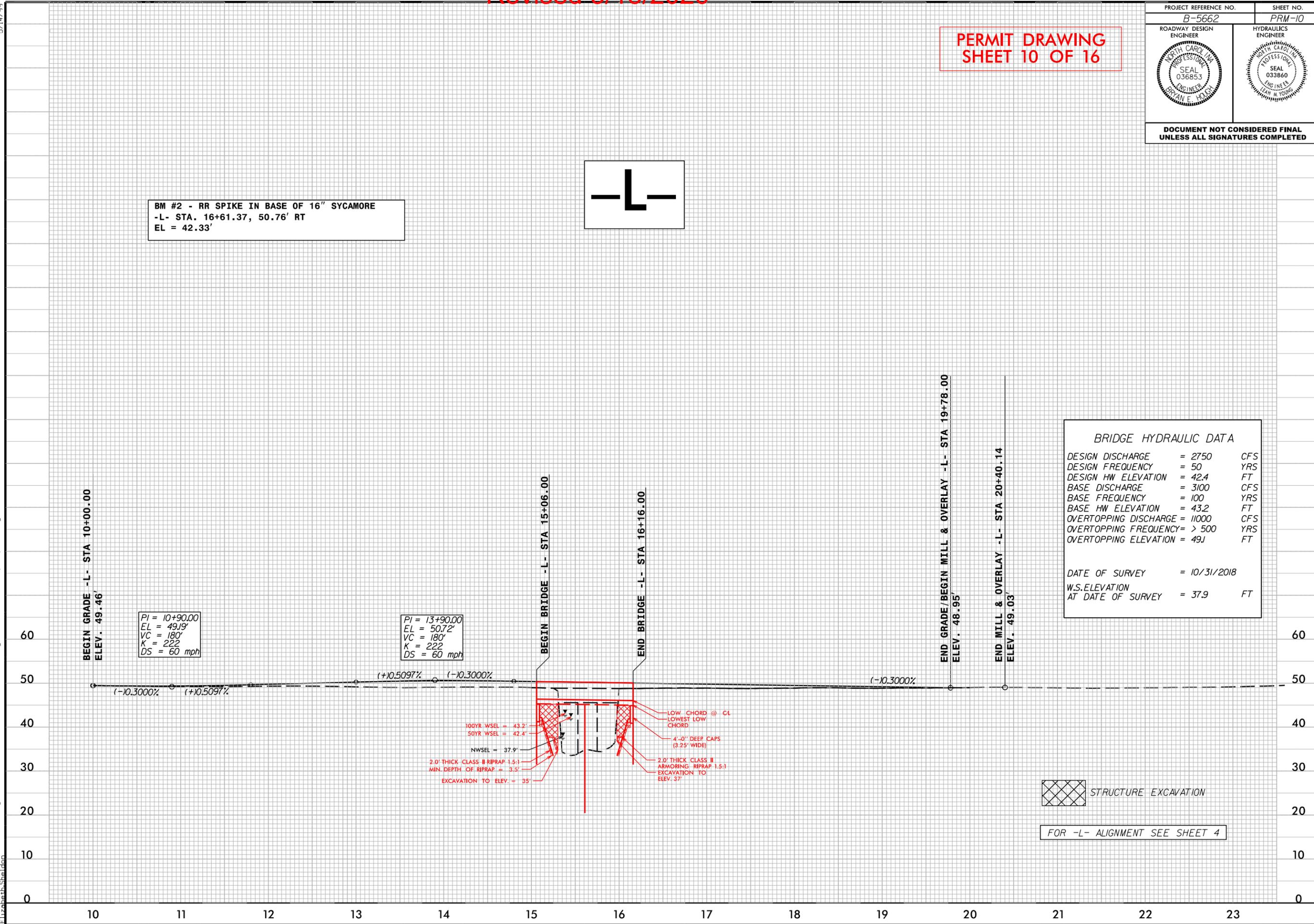
PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-10
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 10 OF 16

BM #2 - RR SPIKE IN BASE OF 16" SYCAMORE
-L- STA. 16+61.37, 50.76' RT
EL = 42.33'



BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 2750	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 42.4	FT
BASE DISCHARGE	= 3100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 43.2	FT
OVERTOPPING DISCHARGE	= 11000	CFS
OVERTOPPING FREQUENCY	= > 500	YRS
OVERTOPPING ELEVATION	= 49.1	FT
DATE OF SURVEY	= 10/31/2018	
W.S. ELEVATION AT DATE OF SURVEY	= 37.9	FT



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PERMIT DRAWING
SHEET 11 OF 16

PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-11
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

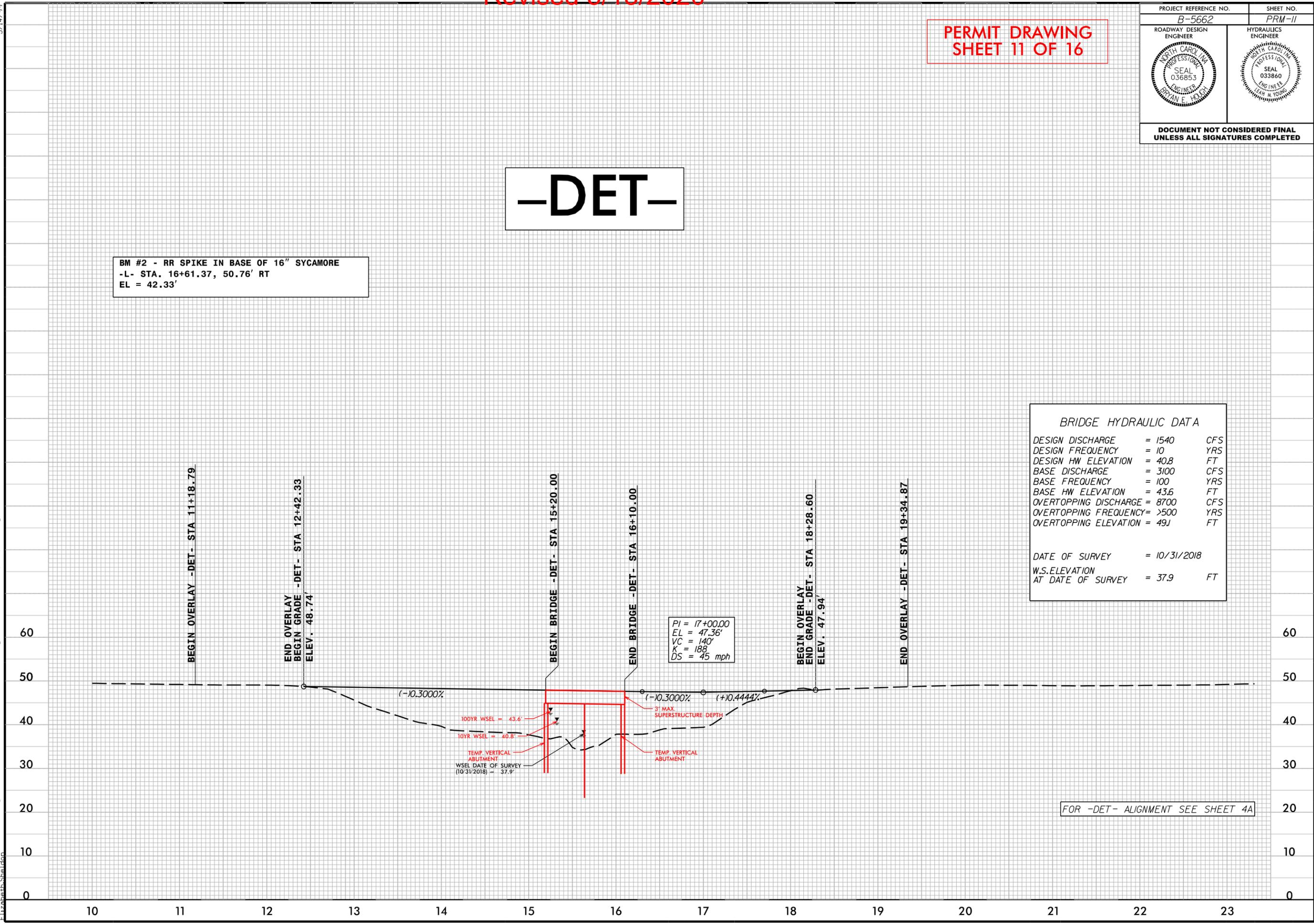
-DET-

BM #2 - RR SPIKE IN BASE OF 16" SYCAMORE
-L- STA. 16+61.37, 50.76' RT
EL = 42.33'

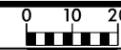
BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1540	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 40.8	FT
BASE DISCHARGE	= 3100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 43.6	FT
OVERTOPPING DISCHARGE	= 8700	CFS
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING ELEVATION	= 49.1	FT

DATE OF SURVEY	= 10/31/2018
W.S. ELEVATION AT DATE OF SURVEY	= 37.9 FT

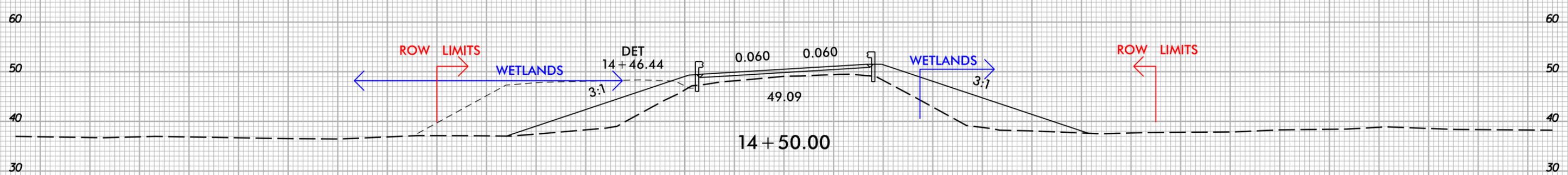
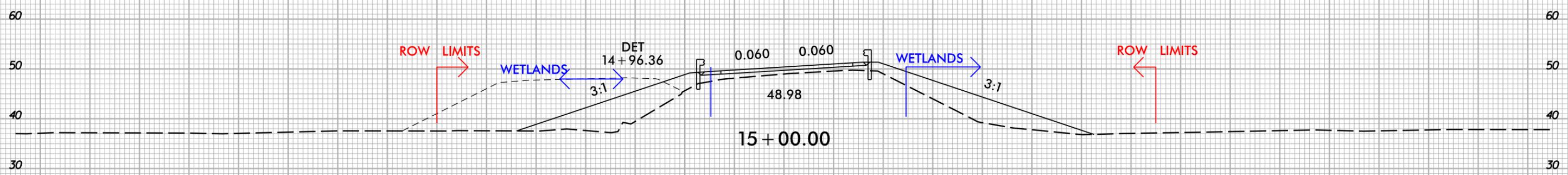
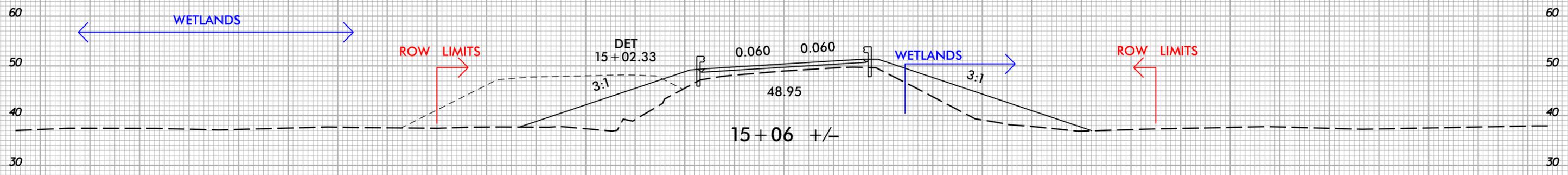


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 Elizabeth Sheldon

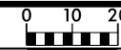


BEGIN BRIDGE -L- STA. 15+06 +/-

PERMIT DRAWING SHEET 12 OF 16

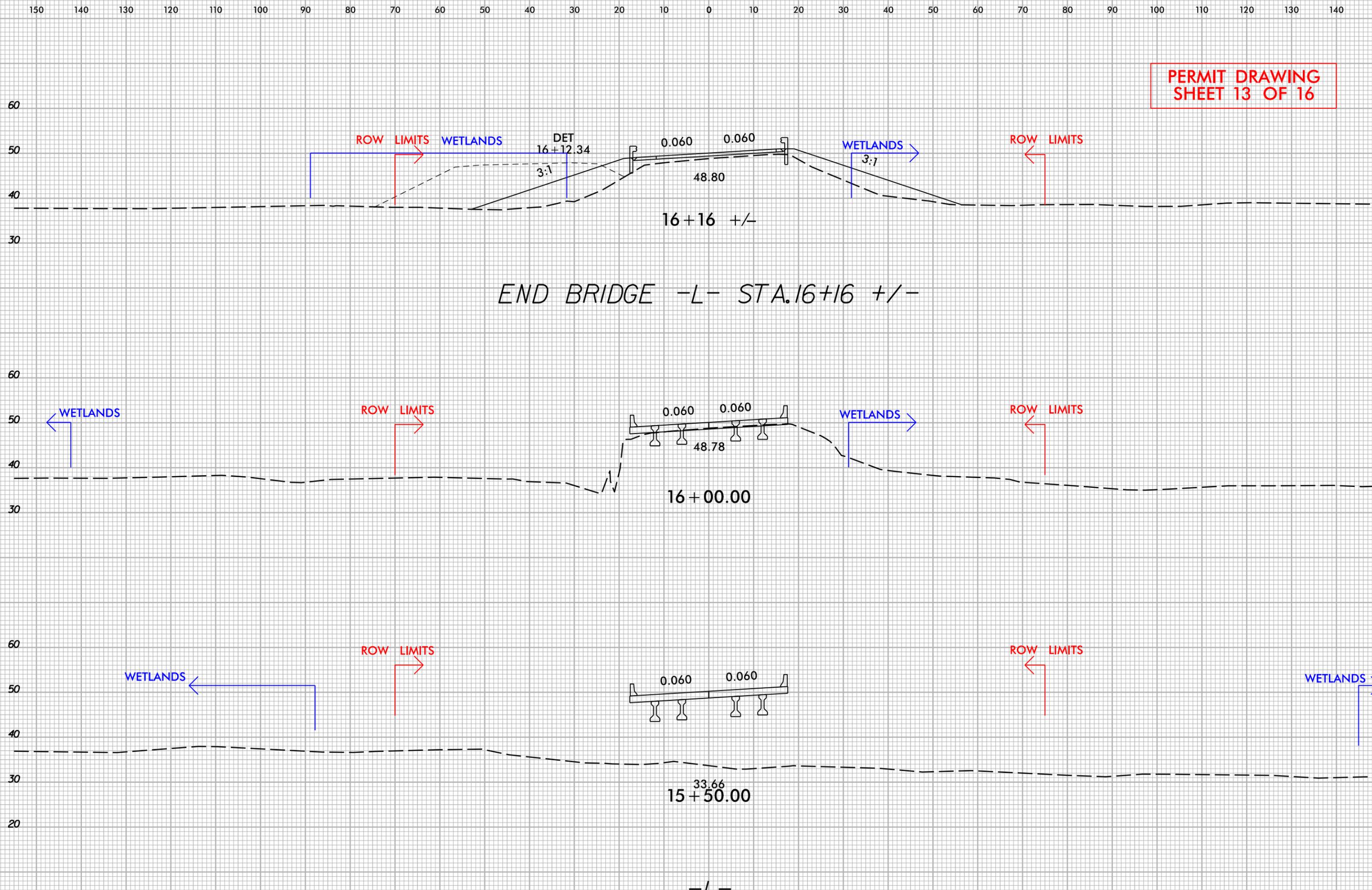


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PERMIT DRAWING SHEET 13 OF 16

6/23/16
3/21/2020
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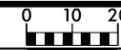
END BRIDGE -L- STA.16+16 +/-

16+00.00

15+50.00

-L-

Revised 5/13/2020

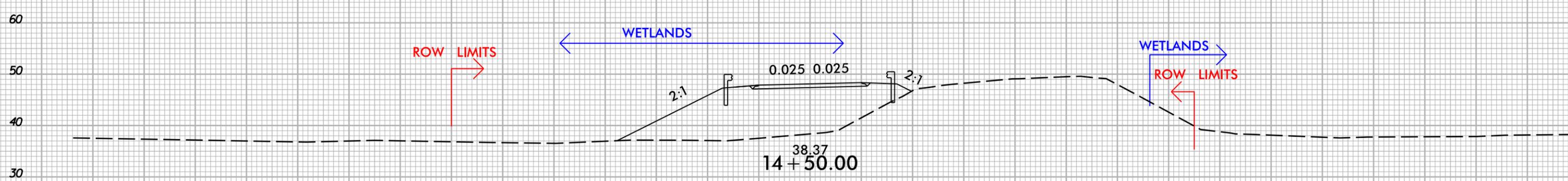
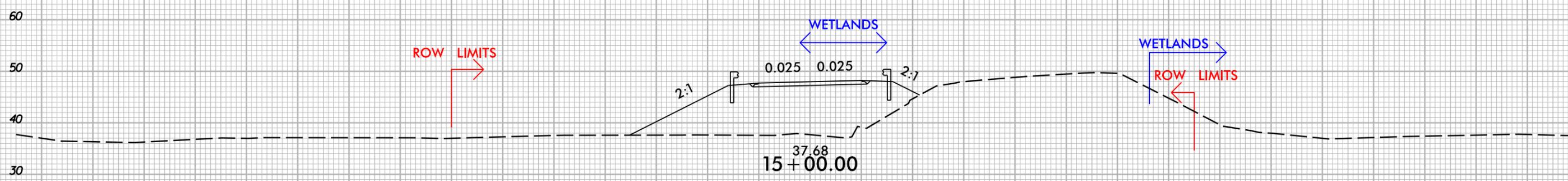
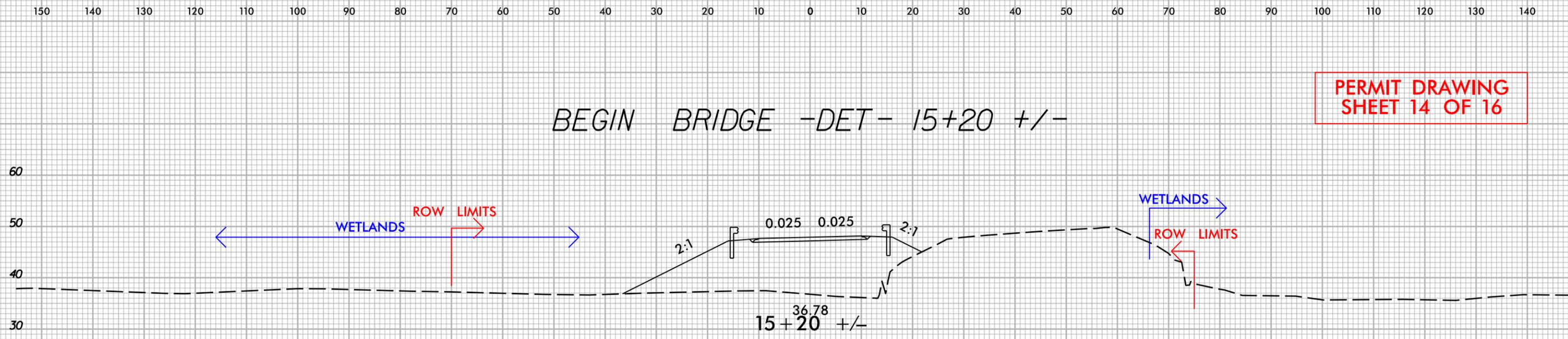


PROJ. REFERENCE NO.
B-5662

SHEET NO.
X-12

BEGIN BRIDGE -DET- 15+20 +/-

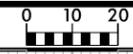
PERMIT DRAWING
SHEET 14 OF 16



-DET-

3/21/2020
3:20:18
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jgawler\jgawler

Revised 5/13/2020

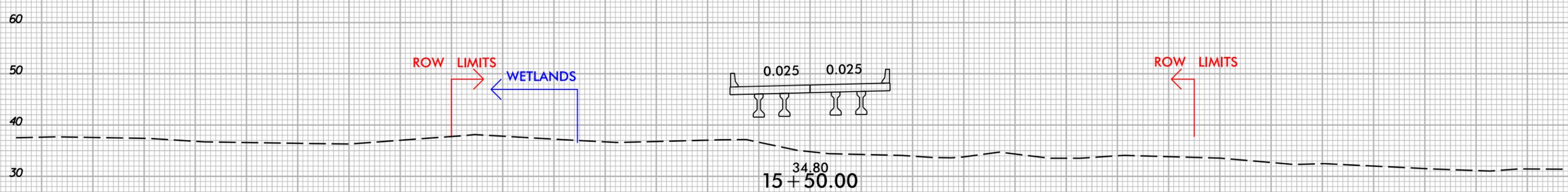
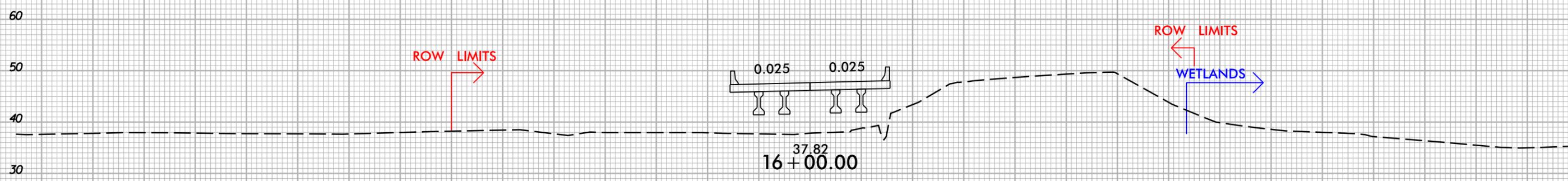
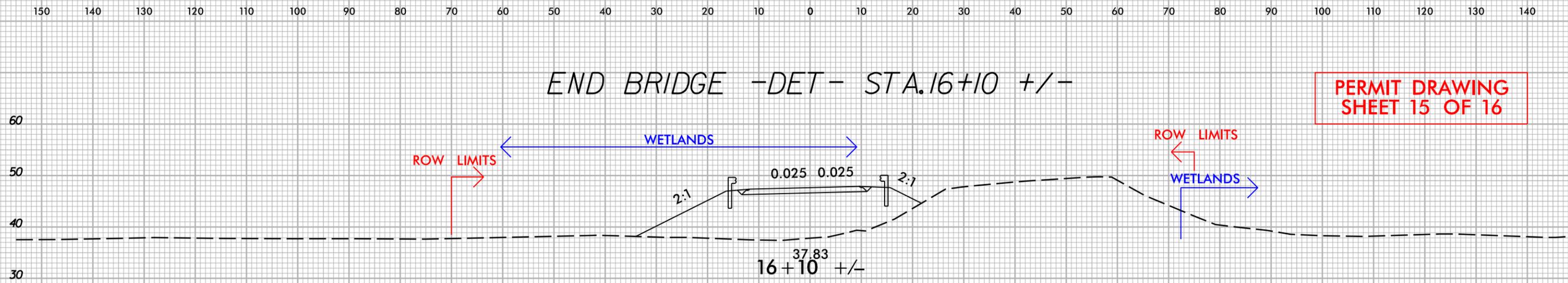


PROJ. REFERENCE NO.
B-5662

SHEET NO.
X-13

END BRIDGE -DET- STA.16+10 +/-

PERMIT DRAWING
SHEET 15 OF 16



-DET-

6/23/16
3/21/2020
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Sawyer, WJ:ERS

WETLAND AND SURFACE WATER IMPACTS 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- STA 10+25 TO	FILL FOR ROADWAY	0.53					0.02	0.06	85	25	
	-L- STA 15+61 CL	AND ACCESS										
1	-L- STA 15+99 TO	FILL FOR ROADWAY	0.21									
	-L- STA 18+77 CL	AND ACCESS										
1	-L- STA 15+19 TO	EXCAVATION UNDER			< 0.01							
	-L- STA 15+32 CL	PROPOSED BRIDGE										
1	-L- STA 15+93 TO	EXCAVATION UNDER			< 0.01			< 0.01		7		
1	-L- STA 13+50 TO	TEMPORARY ACCESS FOR		0.03					0.09		17	
	-L- STA 14+72 LT	DETOUR BRIDGE										
1	-L- STA 16+14 TO	TEMPORARY ACCESS FOR		0.04					0.05		17	
	-L- STA 17+57 LT	DETOUR BRIDGE										
1	-L- STA 10+19 TO	MECHANIZED CLEARING				0.11						
	-L- STA 15+19 CL	FOR FILL IN WETLANDS										
1	-L- STA 16+08 TO	MECHANIZED CLEARING				0.06						
	-L- STA 18+77 CL	FOR FILL IN WETLANDS										
1	-L- STA 10+09 TO	HAND CLEARING FOR					0.12					
	-L- STA 15+23 CL	TEMPORARY FILL										
1	-L- STA 16+09 TO	HAND CLEARING FOR					0.08					
	-L- STA 18+77 CL	TEMPORARY FILL										
TOTALS*:			0.73	0.07	< 0.01	0.17	0.20	0.02	0.21	92	59	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 5/11/2020
 HALIFAX
 B-5662
 45617.1.1