

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 93 on NC 561 in Halifax County TIP B-5662

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](#)

B-5662 Revised Permit Drawings.pdf

5.97MB

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

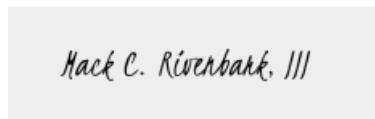
Describe the attachments:

Impacts associated with the temporary detour bridge have been revised resulting in a slight increase in temporary fill in wetlands and a slight decrease in hand clearing. Surface water impacts due to the permanent and temporary bridge end bents were inadvertently excluded from the original application and are now included.

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

- I have given true, accurate, and complete information on this form;
- 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")
- 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: *



Submittal Date:

4/29/2020

[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:	4/28/2020
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
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General Project Narrative:
(Description of Minimization of Water Quality Impacts)

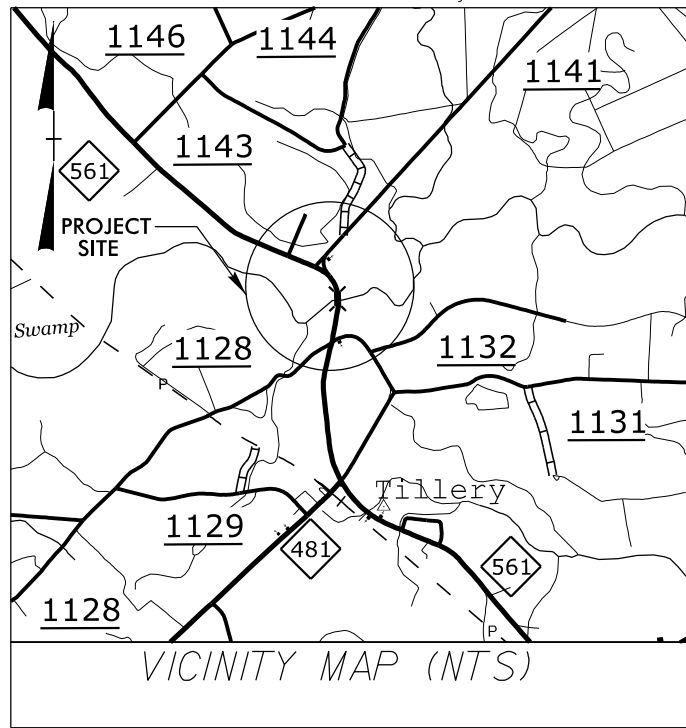
This project will replace Halifax County Bridge #0093 and its approaches. The proposed replacement is 110' long with a clear roadway width of 32'. This structure provides 2'-12' travel lanes with a 4' paved shoulder. The proposed bridge will have 1.5:1 sloping riprap abutments and 4' caps at the end 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, 0.16 acres of mechanized clearing, 0.02 acres and 92 linear feet of permanent surface water impacts, and 0.04 acres and 32 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.

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 April 29, 2020

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



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
HALIFAX COUNTY

**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	
45817.3.1		CONSTR.	

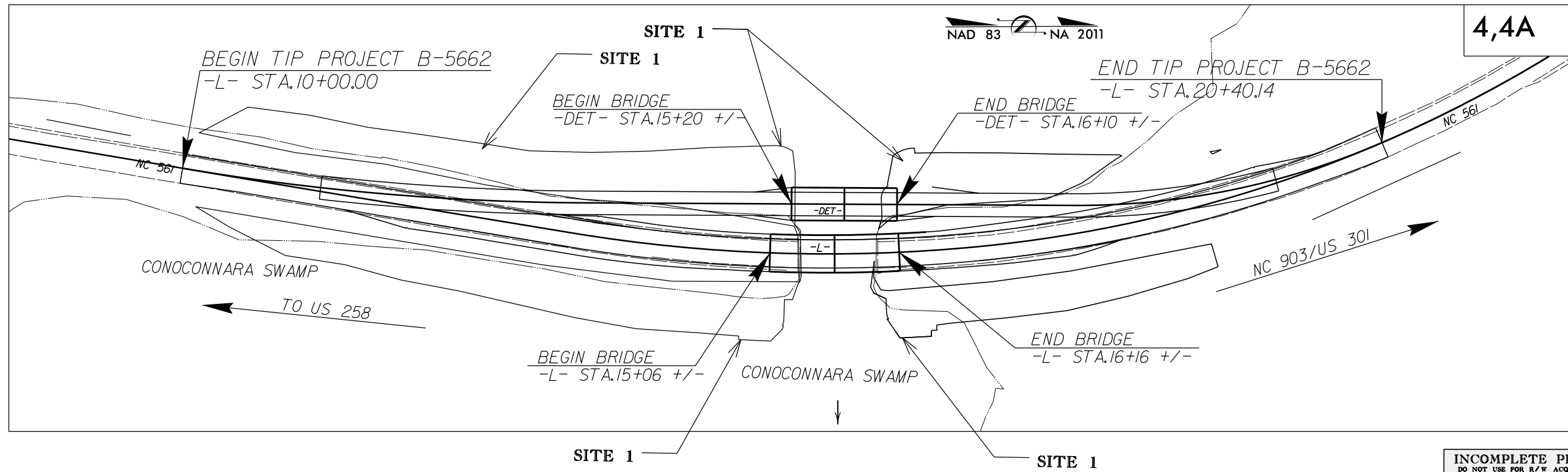
**LOCATION: REPLACE BRIDGE NO. 93 OVER
CONOCONNARA SWAMP ON NC 561**

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

**WETLAND AND STREAM
IMPACTS**

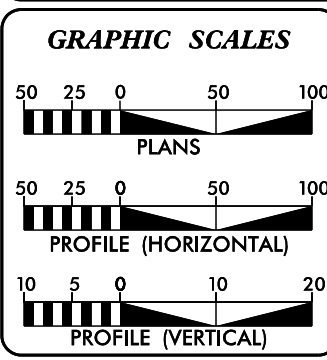
TIP PROJECT: B-5662

CONTRACT: C204489



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**



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

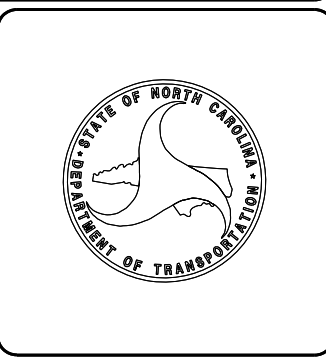
Prepared in the Office of: KCI KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	Plans Prepared For: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh NC, 27610
2018 STANDARD SPECIFICATIONS	DEWAYNE L. SYKES, P.E. PROJECT ENGINEER
RIGHT OF WAY DATE: DECEMBER 19, 2019	BRYAN E. HOUGH, P.E. PROJECT DESIGN ENGINEER
LETTING DATE: JUNE 26, 2020	KRISTY ALFORD, P.E. STRUCTURES MANAGEMENT UNIT
NCDOT CONTACT:	

HYDRAULICS ENGINEER

SIGNATURE: _____

ROADWAY DESIGN ENGINEER

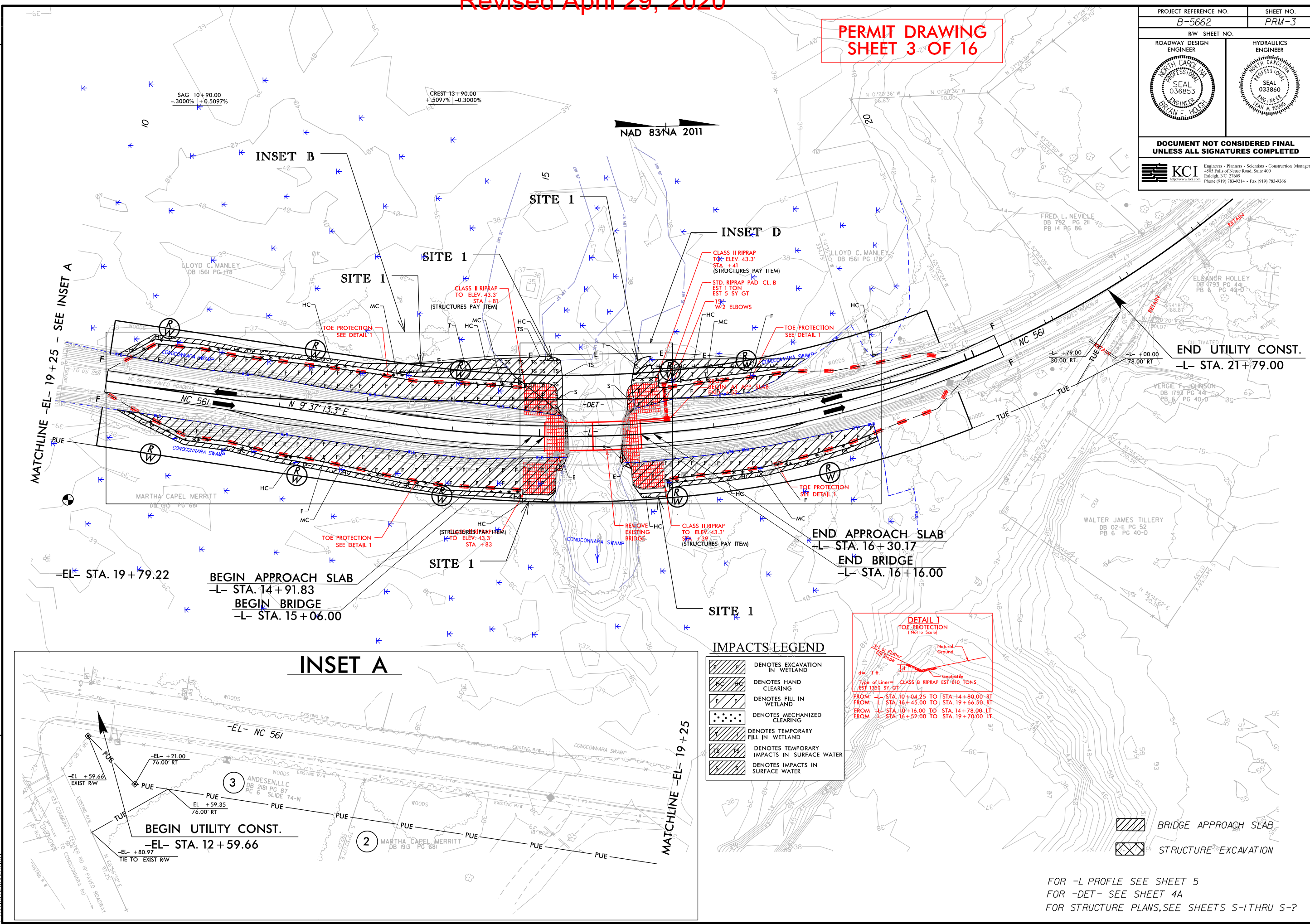
SIGNATURE: _____



4/28/2020
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Elizabeth Sheldon

PERMIT DRAWING SHEET 3 OF 16

PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-3
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
ENGINEERS 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	



REVISIONS

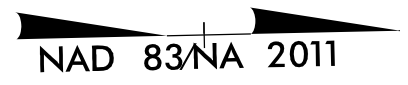
12/17/2019 - Revised PUE and TUE limits on parcel 2 and added PUE and TUE to parcel number 3 due revised water line design.

4/28/2020
 4:26:18 PM
 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

8/17/99

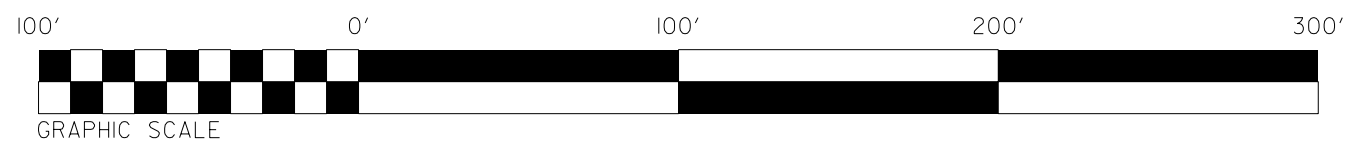
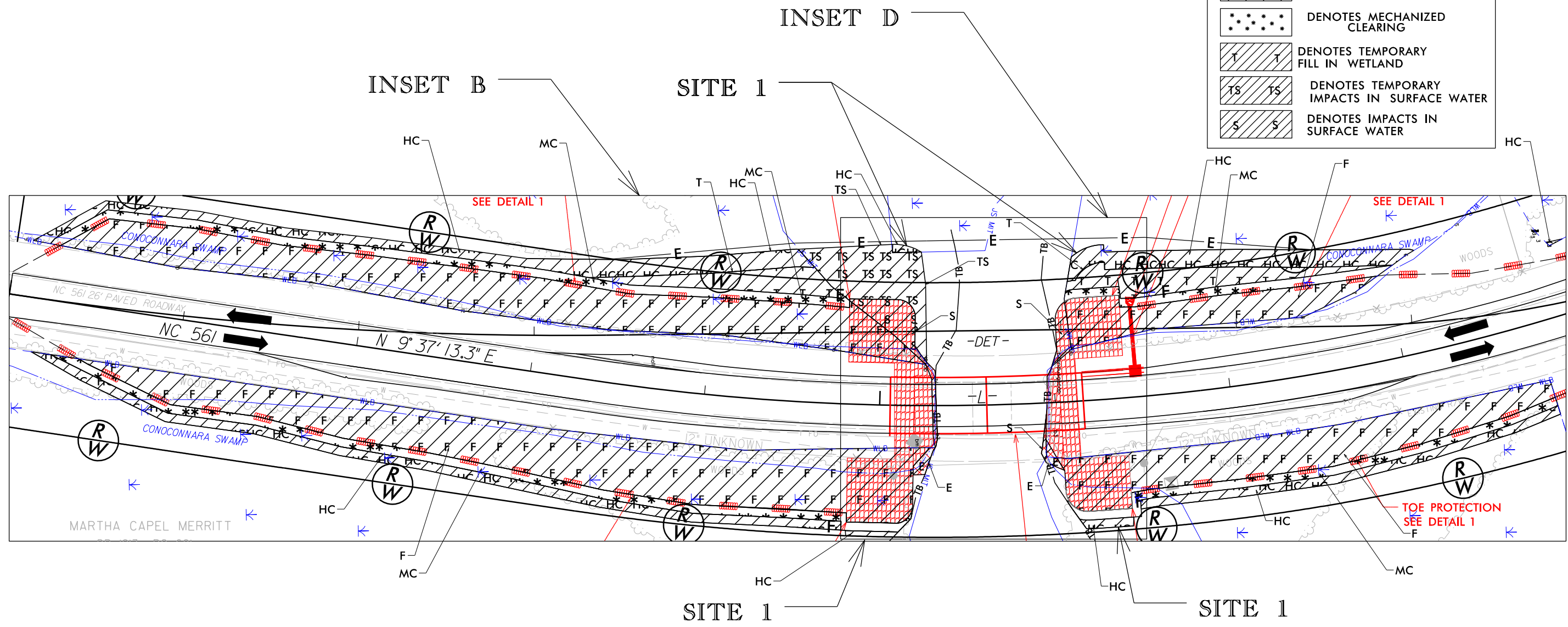
FOR -L PROFILE SEE SHEET 5
 FOR -DET- SEE SHEET 4A
 FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-7

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




IMPACTS LEGEND

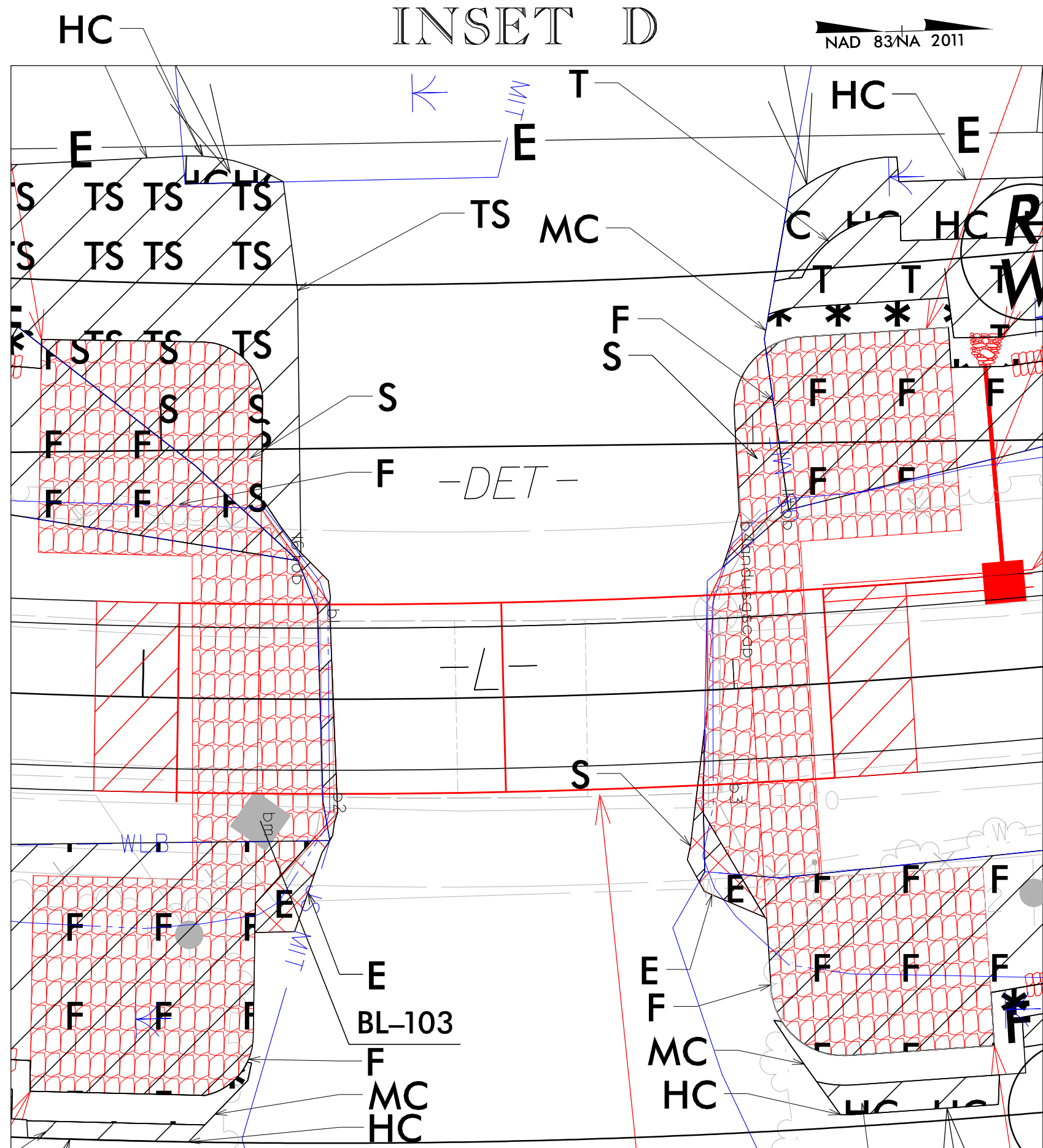
	DENOTES EXCAVATION IN WETLAND
	DENOTES HAND CLEARING
	DENOTES FILL IN WETLAND
	DENOTES MECHANIZED CLEARING
	DENOTES TEMPORARY FILL IN WETLAND
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES IMPACTS IN SURFACE WATER



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4/28/2020
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Elizabeth Sheldon

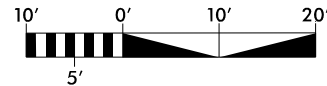
PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 KCI <small>Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266</small>	

PERMIT DRAWING
SHEET 5 OF 16





IMPACTS LEGEND

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

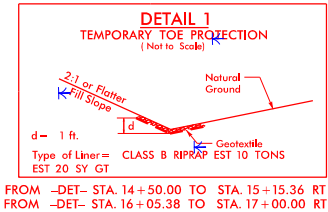
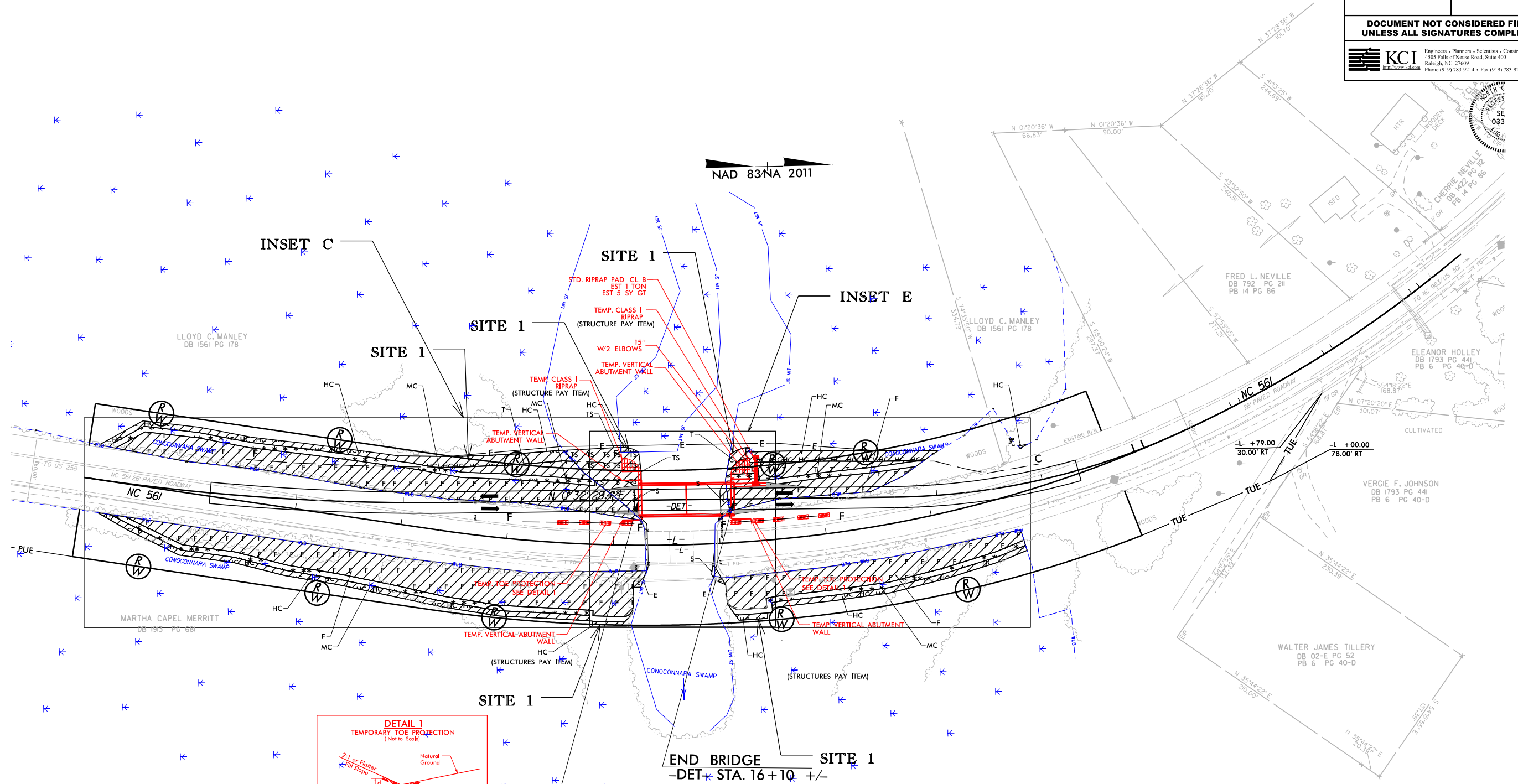


Revised April 29, 2020

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
 4/28/2020 Elizabeth Sheldon
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IMPACTS LEGEND

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	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

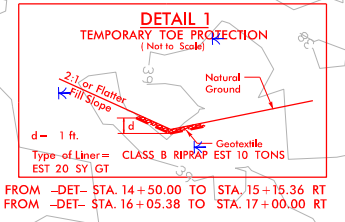
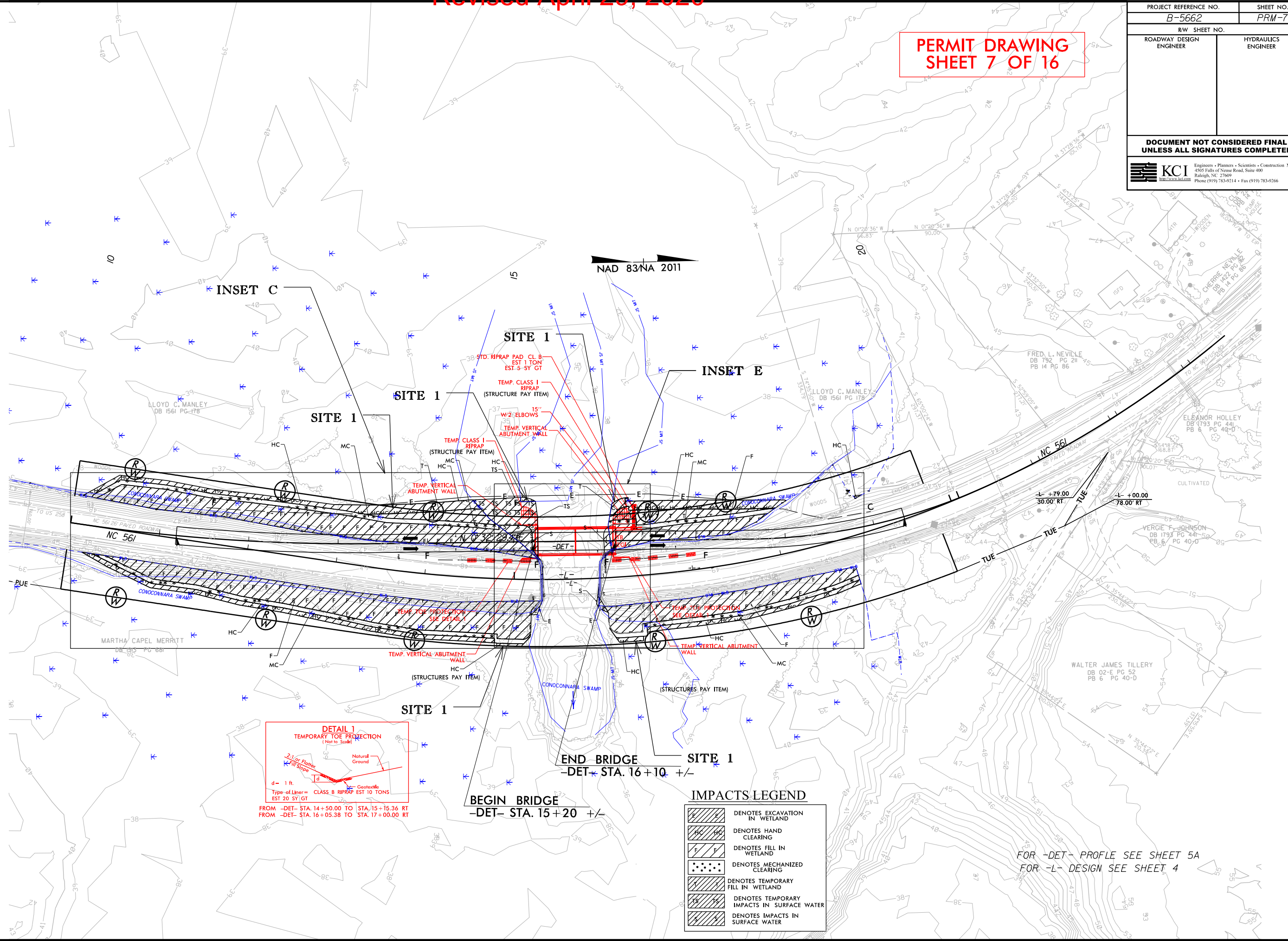
Revised April 29, 2020

PROJECT REFERENCE NO. B-5662		SHEET NO. PRM-7	
RW SHEET NO.			
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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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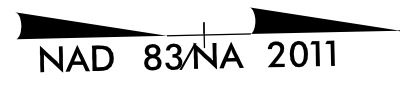


IMPACTS LEGEND

	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

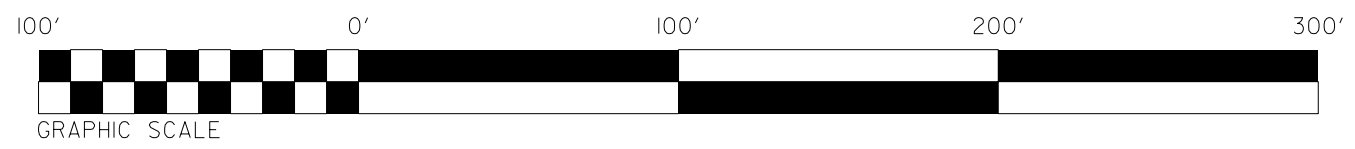
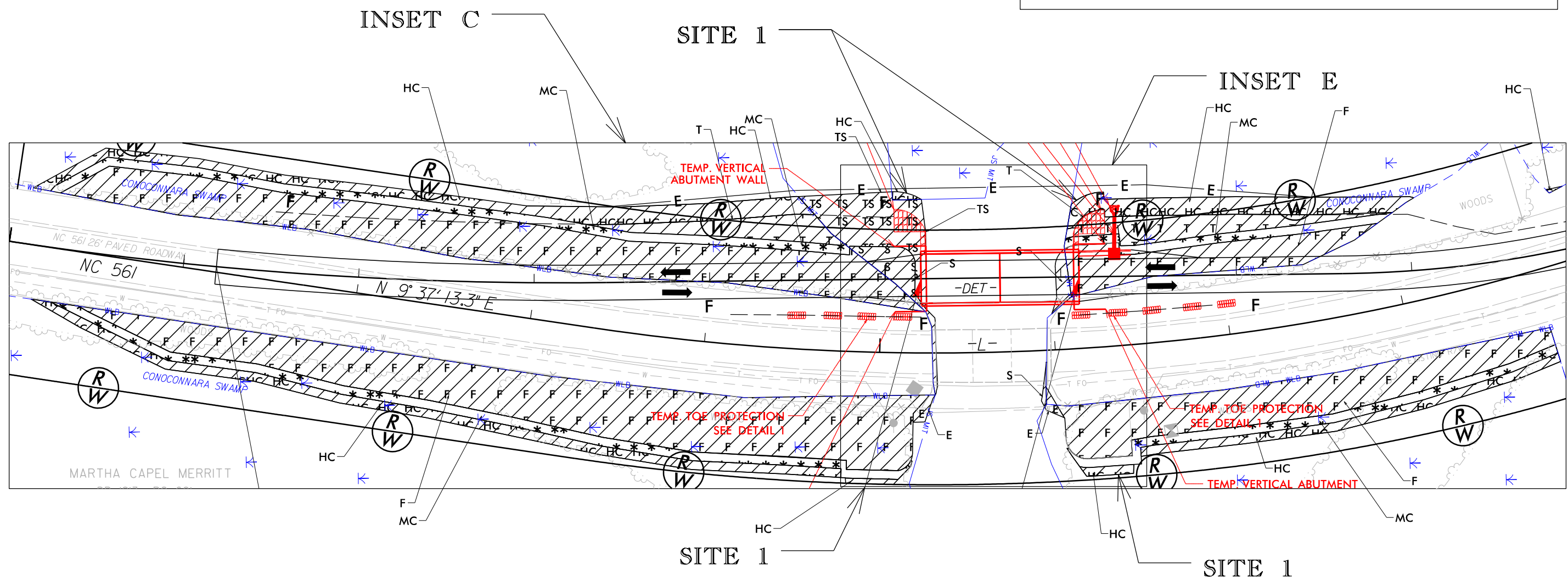
FOR -DET- PROFILE SEE SHEET 5A
FOR -L- DESIGN SEE SHEET 4

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




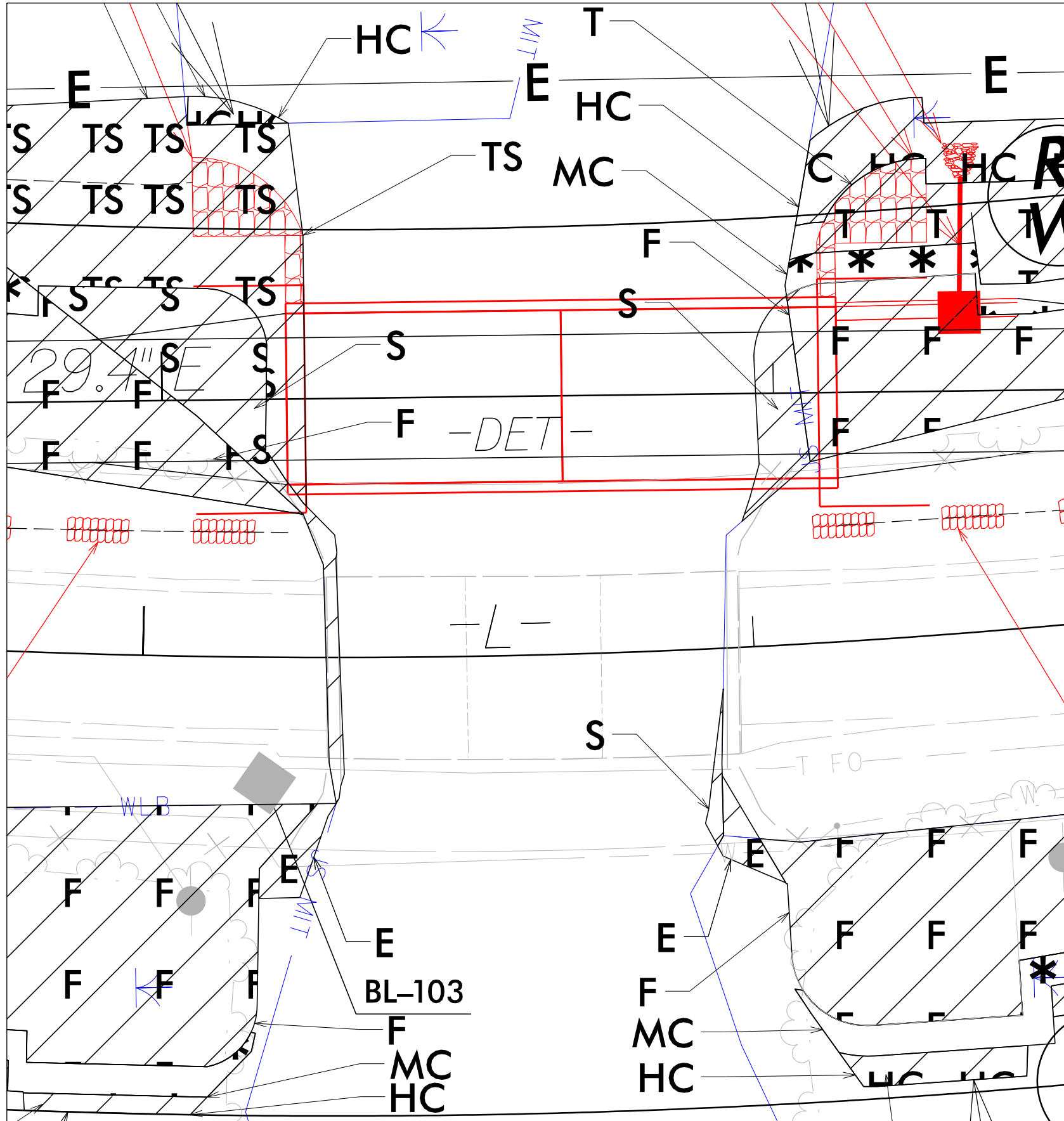
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PERMIT DRAWING
SHEET 9 OF 16



PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 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>	



IMPACTS LEGEND

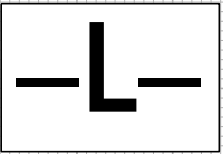
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	DENOTES TEMPORARY IMPACTS IN SURFACE WATER		

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 Elizabeth Sheldon

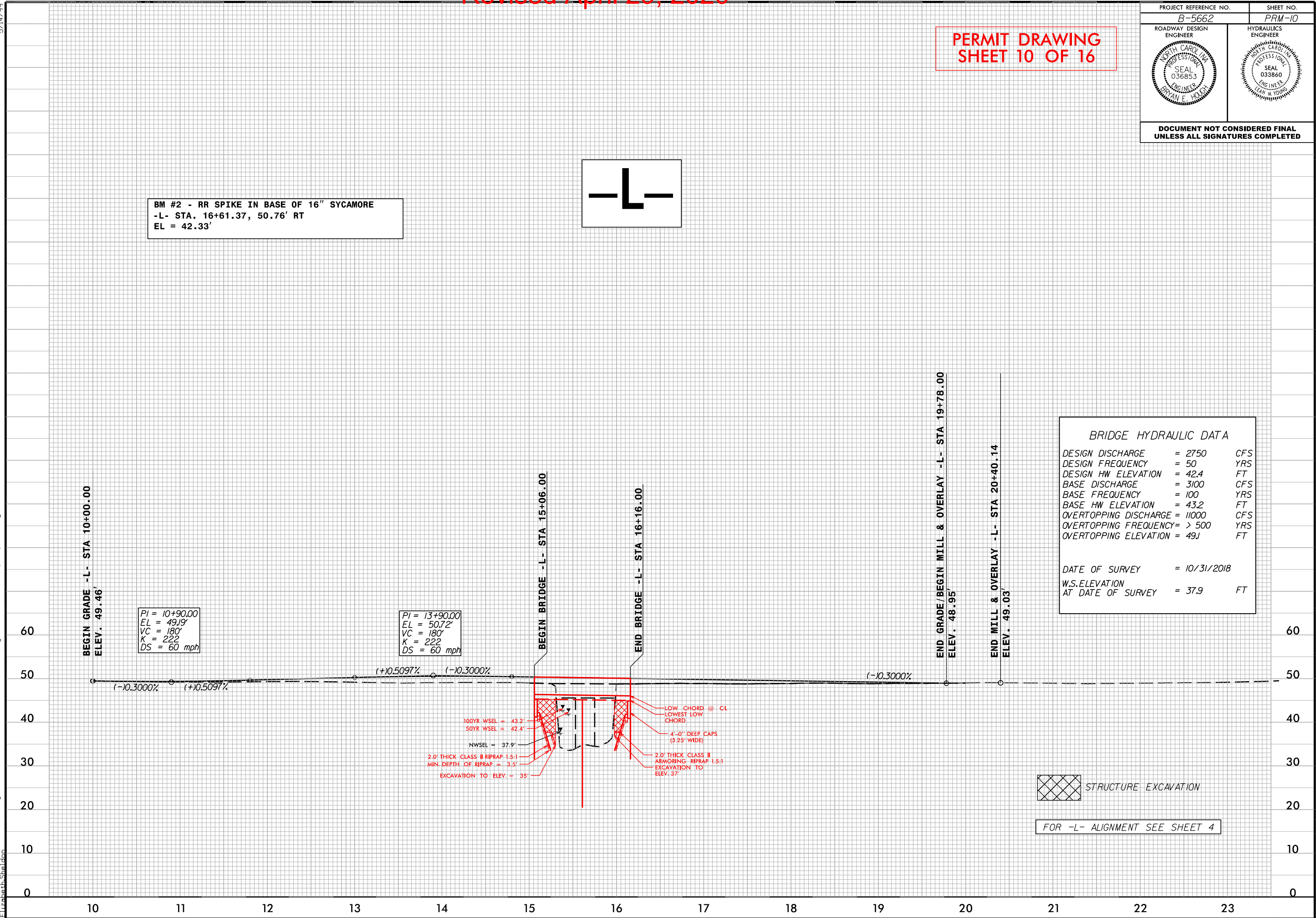
PROJECT REFERENCE NO. B-5662	SHEET NO. PRM-10
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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



4/1/2020
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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	

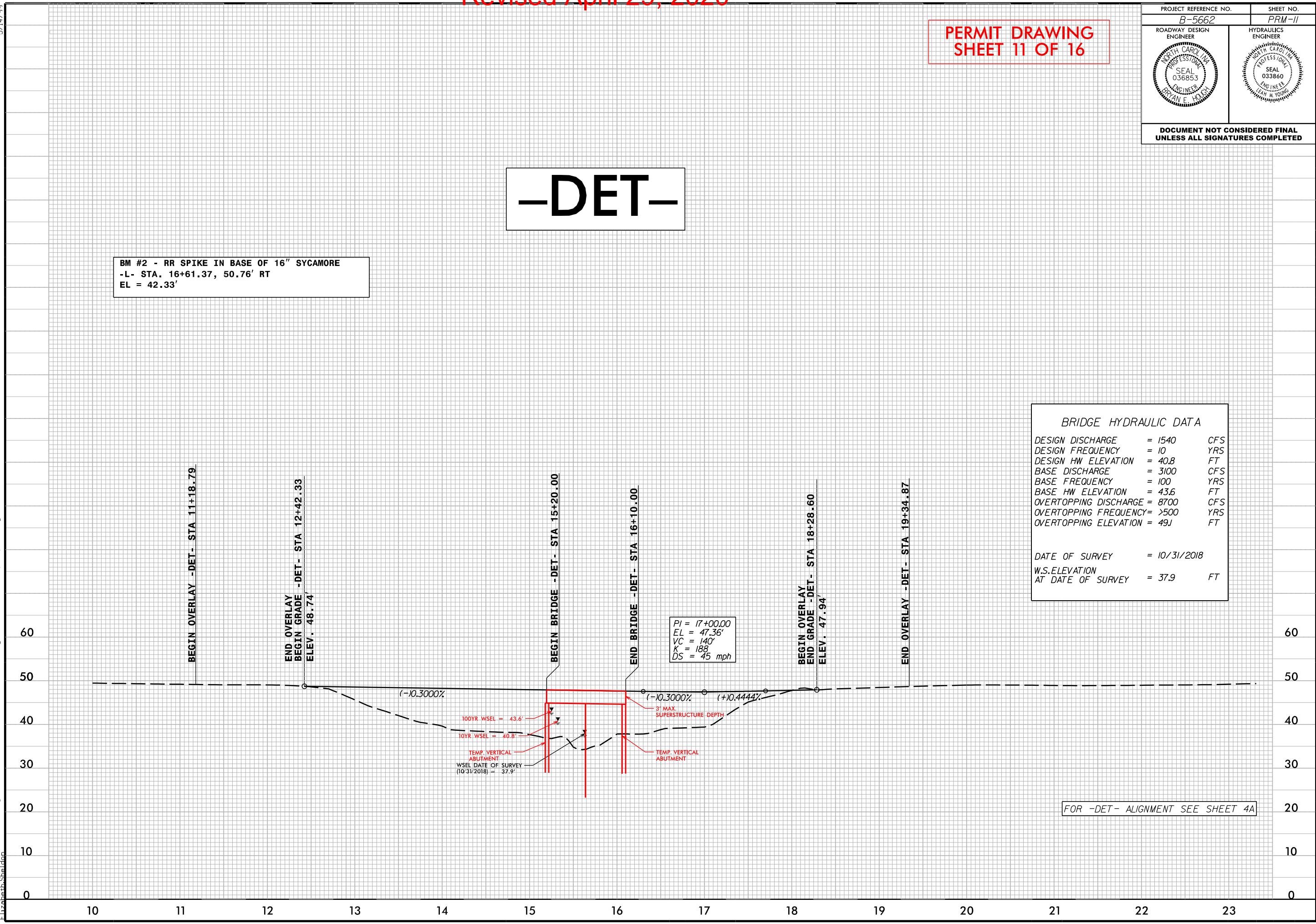
-DET-

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



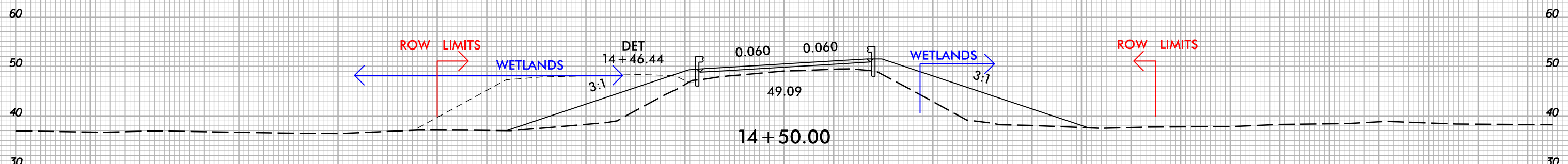
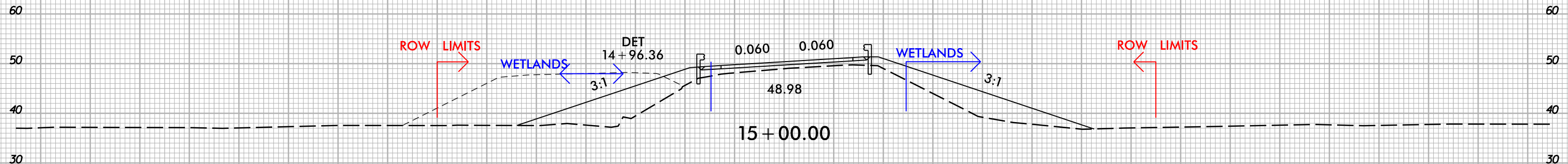
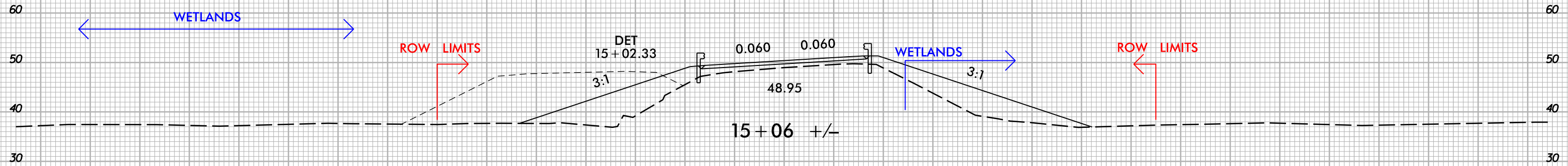
FOR -DET- ALIGNMENT SEE SHEET 4A

4/1/2020 11:25:18 AM 251801945.21 B-5662\Hydro\Permits\Environmental\Drawings\B-5662\pr-m-psh-11.dgn Elizabeth Sheldon

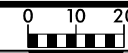
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

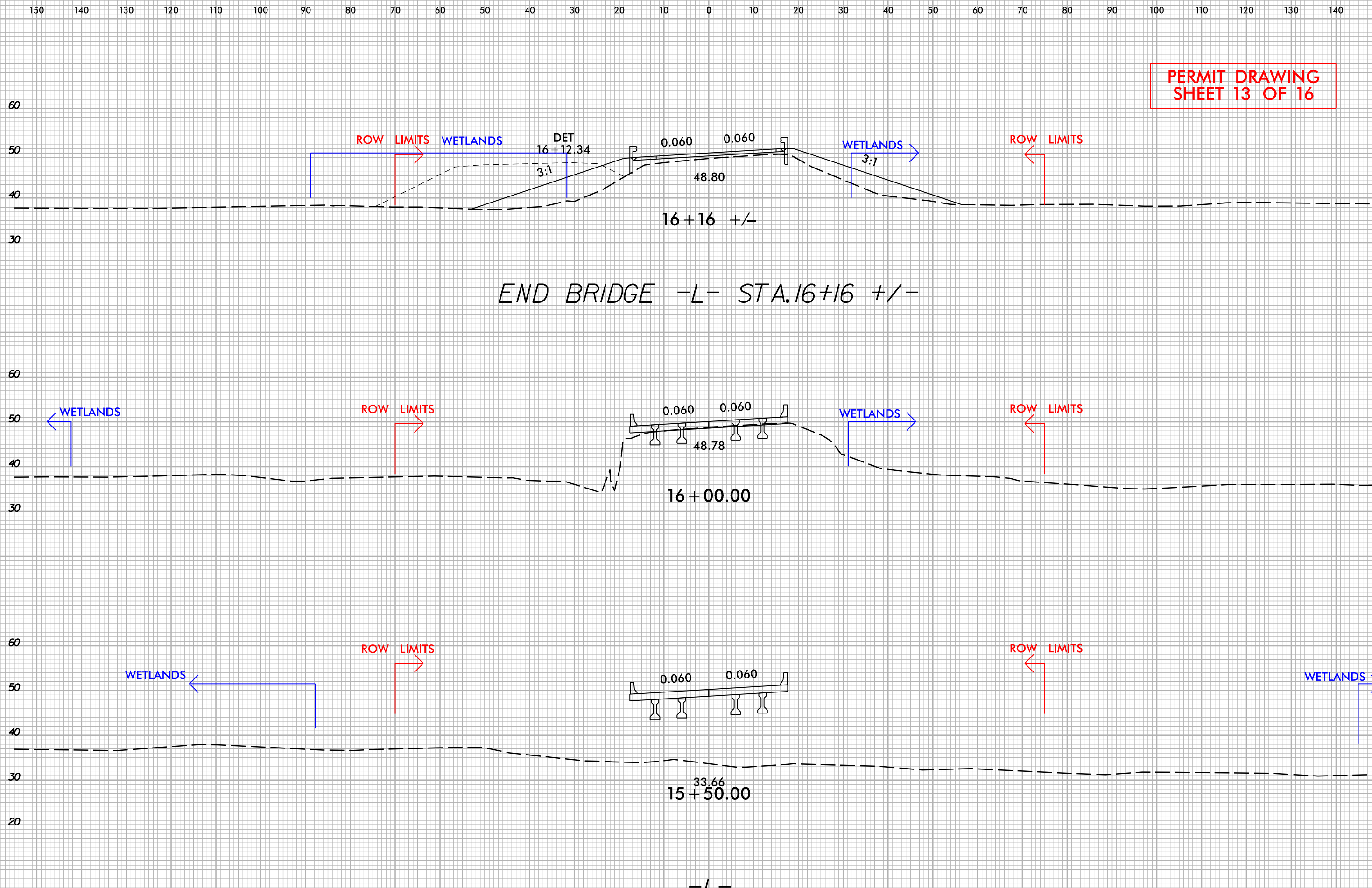
PERMIT DRAWING
SHEET 12 OF 16



-L-



6/23/16
3/21/2020
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Sawyer.WJ:GFS



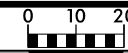
PERMIT DRAWING
SHEET 13 OF 16

END BRIDGE -L- STA. 16+16 +/-

16+00.00

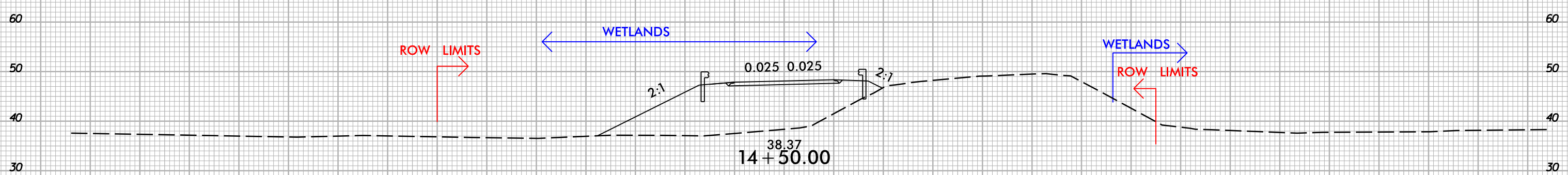
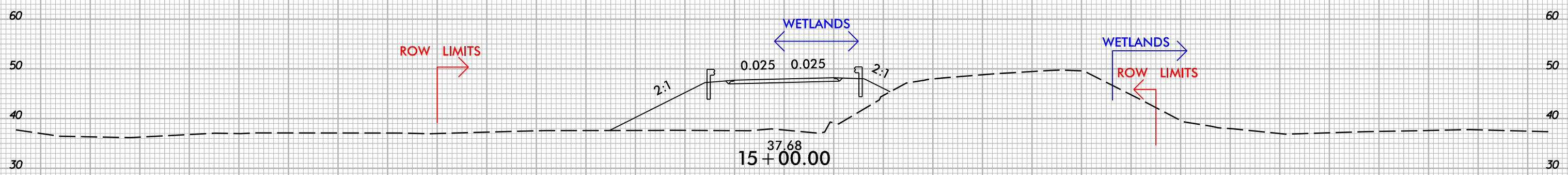
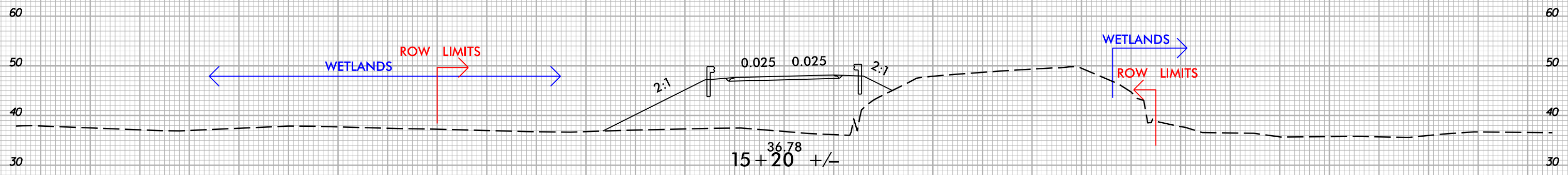
15+50.00

-L-



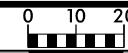
BEGIN BRIDGE -DET- 15+20 +/-

PERMIT DRAWING SHEET 14 OF 16



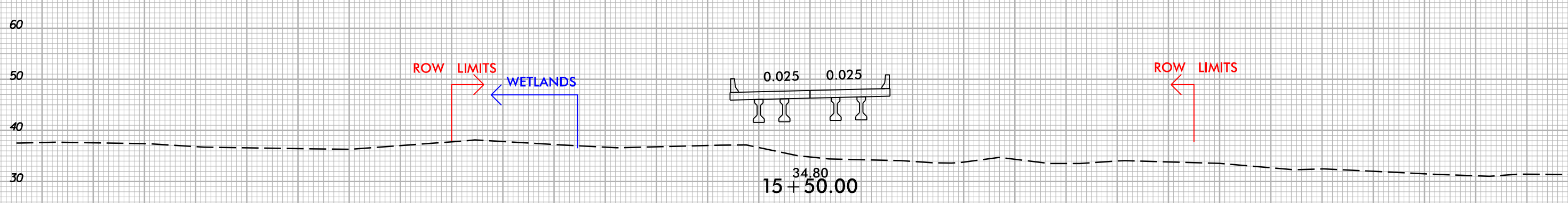
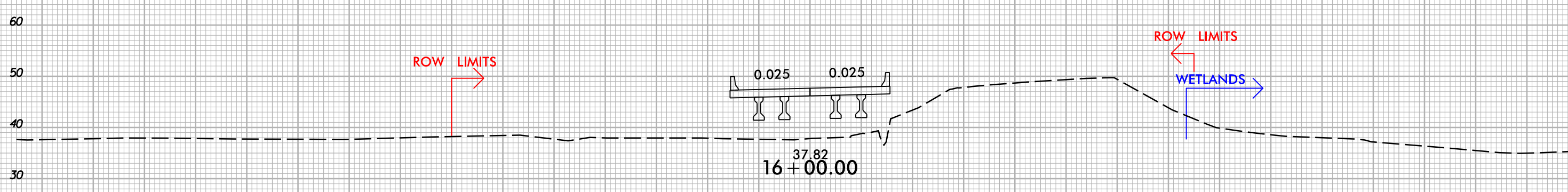
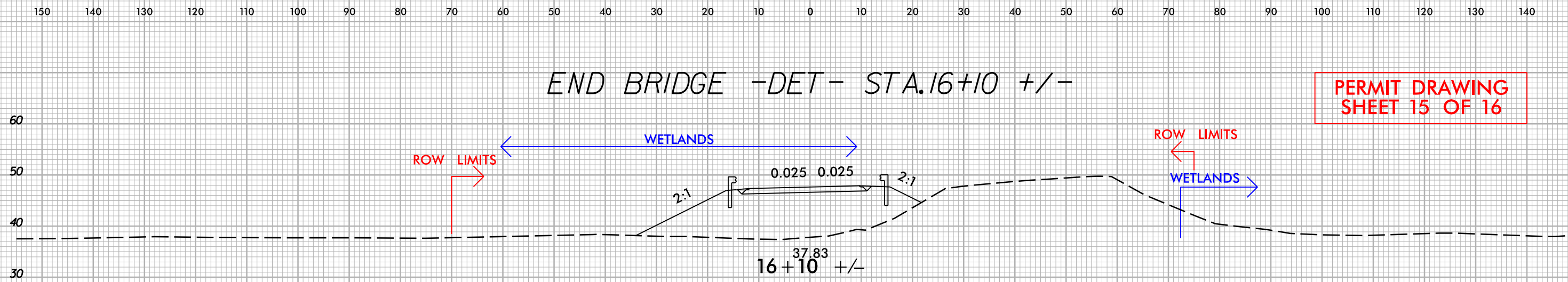
-DET-

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



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

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 -L- STA 15+29 CL	FILL FOR ROADWAY	0.526					0.016	0.044	85	32	
1	-L- STA 15+99 TO -L- STA 18+77 CL	FILL FOR ROADWAY	0.206									
1	-L- STA 15+19 TO -L- STA 15+32 CL	EXCAVATION UNDER PROPOSED BRIDGE			0.002							
1	-L- STA 15+93 TO -L- STA 16+03 CL	EXCAVATION UNDER PROPOSED BRIDGE			0.001			0.005		7		
1	-L- STA 13+50 TO -L- STA 14+72 LT	TEMPORARY FILL FOR DETOUR BRIDGE		0.029								
1	-L- STA 16+14 TO -L- STA 17+57 LT	TEMPORARY FILL FOR DETOUR BRIDGE		0.038								
1	-L- STA 10+19 TO -L- STA 15+19 CL	MECHANIZED CLEARING FOR FILL IN WETLANDS				0.109						
1	-L- STA 16+08 TO -L- STA 18+77 CL	MECHANIZED CLEARING FOR FILL IN WETLANDS				0.055						
1	-L- STA 10+09 TO -L- STA 15+23 CL	HAND CLEARING FOR TEMPORARY FILL					0.125					
1	-L- STA 16+09 TO -L- STA 18+77 CL	HAND CLEARING FOR TEMPORARY FILL					0.075					
TOTALS*:			0.732	0.067	0.003	0.164	0.200	0.02	0.04	92	32	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

4/28/2020

HALIFAX

B-5662

45617.1.1

SHEET

16

OF

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