

# Mid-Currituck Bridge Interagency Meeting

December 14, 2023

# Purpose

To continue agency coordination on the project and to review draft permit applications.



# Agenda

- Introductions
- Project Update
  - Recent Project Activities
  - Other Project Matters
- Schedule and Next Steps
- Draft Permit Application Review
  - Sections 404/401 Application
  - CAMA Application

# Introductions

- Persons in the meeting room
- Persons on Teams
- Name and Agency Representing



# Previous Meetings

- 8/22/19 – “4B” Meeting
- 12/19/19 – Cumulative effects scoping
- 2/20/20 – SAV mitigation
- 3/12/20 – Cumulative effects scoping
- 8/19/20 – “4C” Meeting
- 12/19/20 – Cumulative impacts study for water quality
- 9/7/22 – Pre-permit application

# Recent Project Activities

- Updated Protected Species Surveys
- Updated Jurisdictional Resources Surveys
- Updated Permit Drawings
- Design Change on Bridges
- Updated SAV impacts based on additional monitoring and surveys
- Updated SAV Mitigation Plan



# Protected Species Surveys



# Protected Species Surveys

- RCW and Eagle surveys conducted – no cavity trees and no nests
- Eastern Black Rail – no habitat
- Northern Long-Eared Bat – programmatic agreement
- Tricolor Bat – programmatic agreement
- Natural Resources Technical Report Update – June 2023



# Updated Project Effects

Scientific Name	Common Name	Federal Status	Habitat Present	Biological Conclusion	
				USFWS Jurisdictional Species	NMFS Jurisdictional Species
<i>Myotis septentrionalis</i>	Northern Long-Eared Bat	T	Yes	MA-LAA	NA
<i>Canis rufus</i>	Red wolf	E-EXPN	Yes	No Effect	NA
<i>Perimyotis subflavus</i>	Tricolored Bat	PE	Yes	MA-LAA	NA
<i>Trichechus manatus</i>	West Indian manatee	T	Yes	MA-NLAA	NA
<i>Laterallus jamaicensis ssp. jamaicensis</i>	Eastern Black Rail	T	No	No Effect	NA
<i>Charadrius melodus</i>	Piping plover	T	No	No Effect	NA
<i>Calidris canutus rufa</i>	Red knot	T	No	No Effect	NA
<i>Picoides borealis</i>	Red- cockaded woodpecker	E	Yes	No Effect	NA
<i>Alligator mississippiensis</i>	American alligator	T(S/A)	Yes	Not Required	NA
<i>Chelonia mydas</i>	Green sea turtle	T	Yes	No Effect	No Effect
<i>Eretmochelys imbricata</i>	Hawksbill sea turtle	E	No	No Effect	No Effect
<i>Lepidochelys kempii</i>	Kemp's ridley sea turtle	E	Yes	No Effect	No Effect
<i>Dermochelys coriacea</i>	Leatherback sea turtle	E	No	No Effect	No Effect
<i>Caretta caretta</i>	Loggerhead sea turtle	T	Yes	No Effect	No Effect
<i>Acipenser brevirostrum</i>	Shortnose sturgeon	E	Yes	NA	No Effect
<i>Acipenser oxyrinchus oxyrinchus</i>	Atlantic sturgeon	E	Yes	NA	MA-NLAA
<i>Amaranthus pumilus</i>	Seabeach amaranth	T	No	No Effect	NA

# Jurisdictional Resource Surveys



Mid-Currituck Bridge

# Jurisdictional Resource Surveys

- Additional survey areas required to align with the current design plans
- Surveys in 2017, 2018, and 2023
- Updated Preliminary Jurisdictional Determination issued on 10/17/23
- Natural Resources Technical Report Update – June 2023

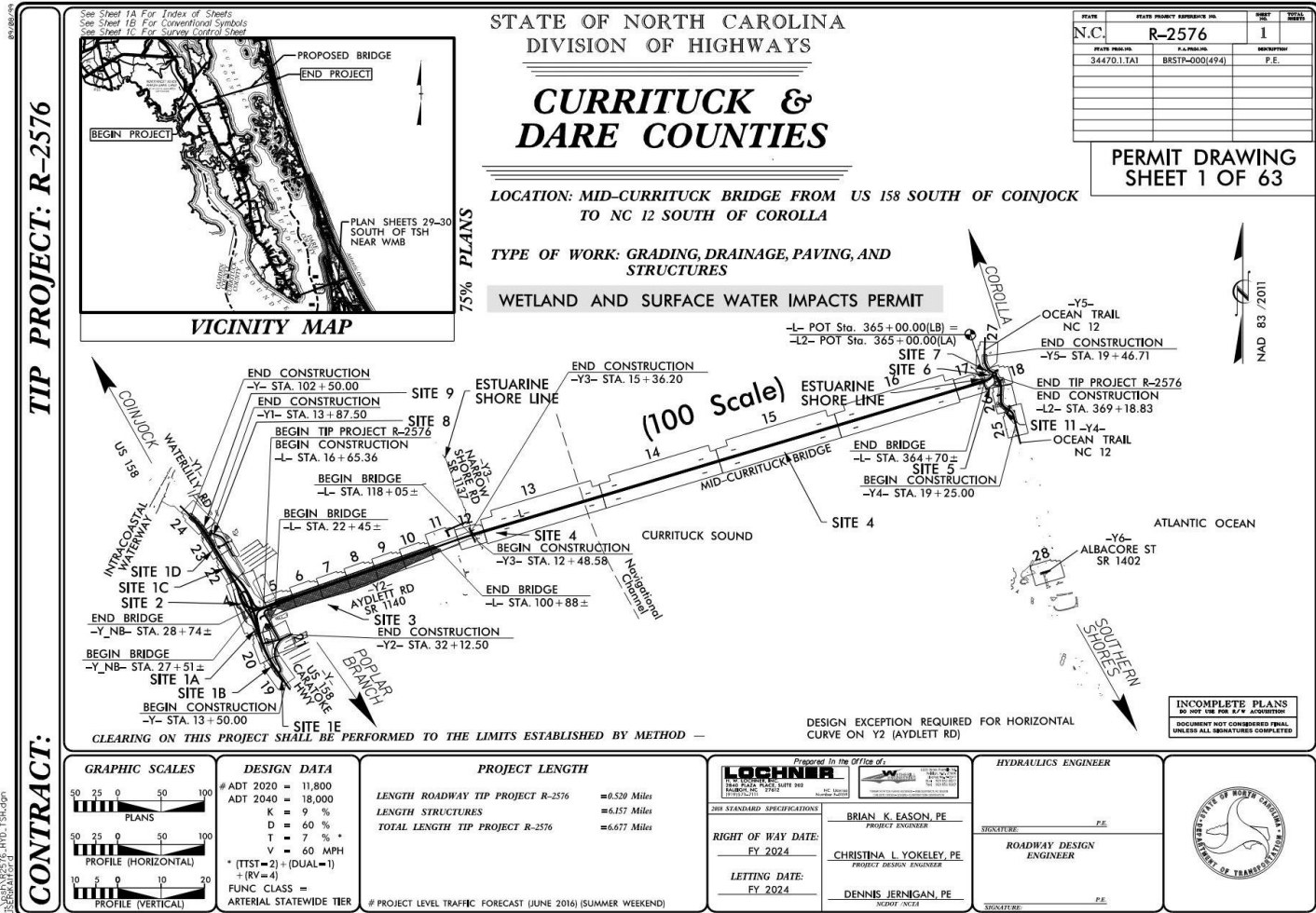
# Jurisdictional Resource Impacts

	Permanent Wetland Impacts (acres)	Temporary Wetland Impact (acres)	Mechanized Clearing in Wetlands (acres)	Hand Clearing in Wetlands (acres)	Permanent Surface Water Impacts (acres)	Temporary Surface Water Impacts (acres)	Permanent Existing Channel Impacts (feet)	Temporary Existing Channel Impacts (feet)
Previous Permit Drawings	0.76	4.58	0.09	11.44	0.14	0.02	471	9
Current Permit Drawings	1.07	4.72	0.09	12.09	0.14	0.02	471	9
Delta	0.31 <sup>A</sup>	0.14 <sup>B</sup>	0	0.65 <sup>C</sup>	0	0	0	0

- A. Increase in permanent wetland impacts due to additional survey areas with wetlands not previously identified (site 1E – 0.14 and site 10 – 0.17).
- B. Increase in temporary wetland impacts due to increased trestle piles due to the wider Maple Swamp Bridge (site 3 – 0.14).
- C. Increase in hand clearing in wetlands at sites 3 (0.48), 1E (0.08), and 10 (0.09).

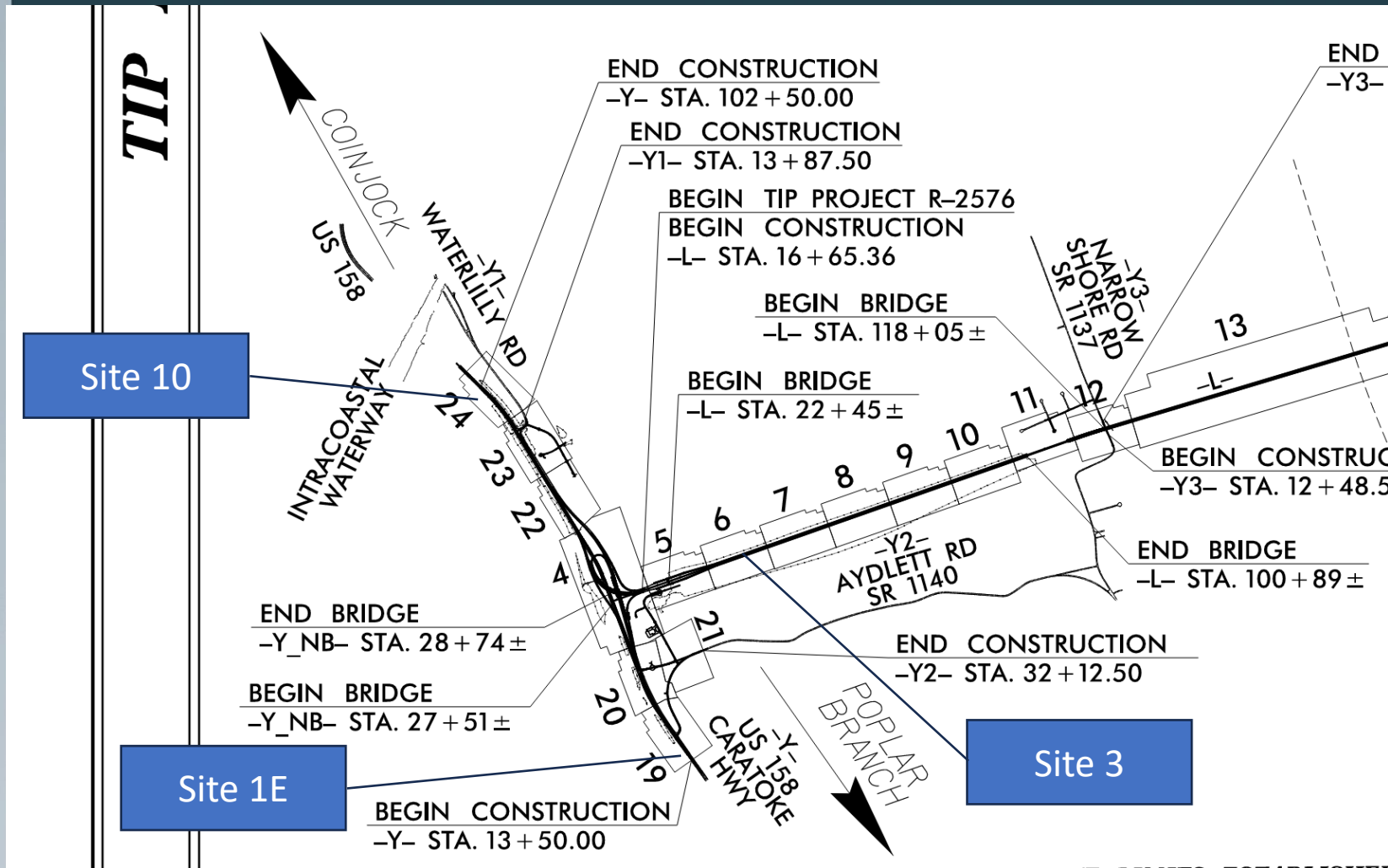


# Revised Permit Drawings





# Revised Permit Drawings



**PERMIT DRAWING  
SHEET 38 OF 63**

**LOCHNER**  
 F. W. LOCHNER, INC.  
 2840 PLAZA PLACE, SUITE 202  
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NC License Number E-20157  
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**WETHERILL ENGINEERING**  
 TRANSPORTATION PLANNING DESIGN - INFRASTRUCTURE DESIGN  
 CONSULTING DESIGN - DESIGN - CONSTRUCTION ADMINISTRATION

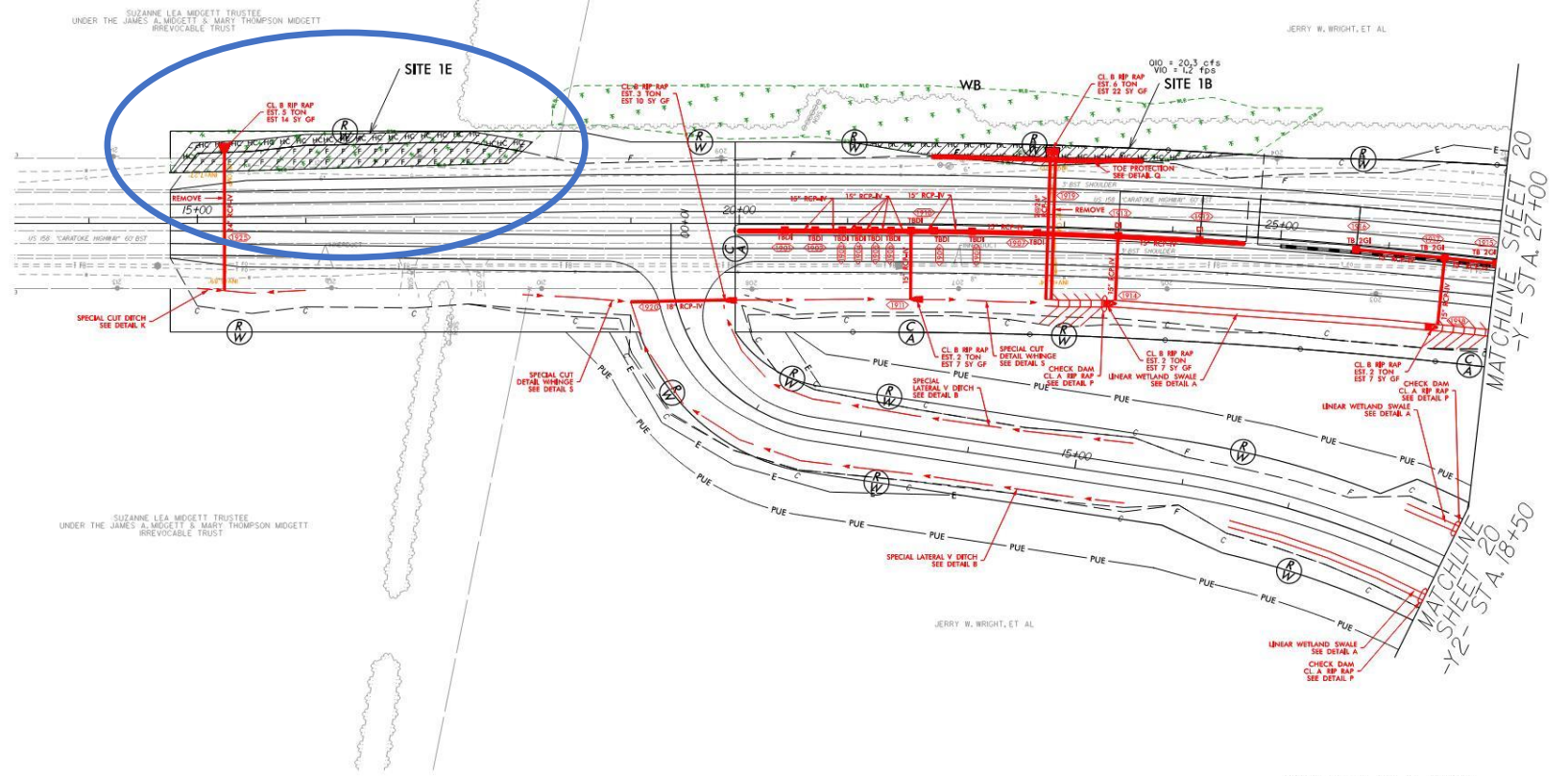
PROJECT REFERENCE NO. R-2576	SHEET NO. 19
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>INCOMPLETE PLANS DO NOT USE FOR P/W ACQUISITION</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
 PAVED SHOULDER	



**DENOTES HAND CLEARING**



**DENOTES FILL IN WETLAND**



SUZANNE LEA MIDGETT TRUSTEE  
 UNDER THE JAMES A. MIDGETT & MARY THOMPSON MIDGETT  
 IRREVOCABLE TRUST

JERRY W. WRIGHT, ET AL

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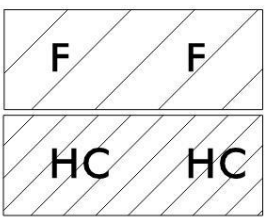
SEE SHEET 36 FOR -Y- PROFILE  
 SEE SHEET 45 FOR -Y2- PROFILE

5/2/09

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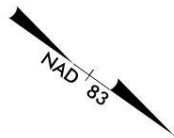
PERMIT DRAWING SHEET 40A OF 63

14



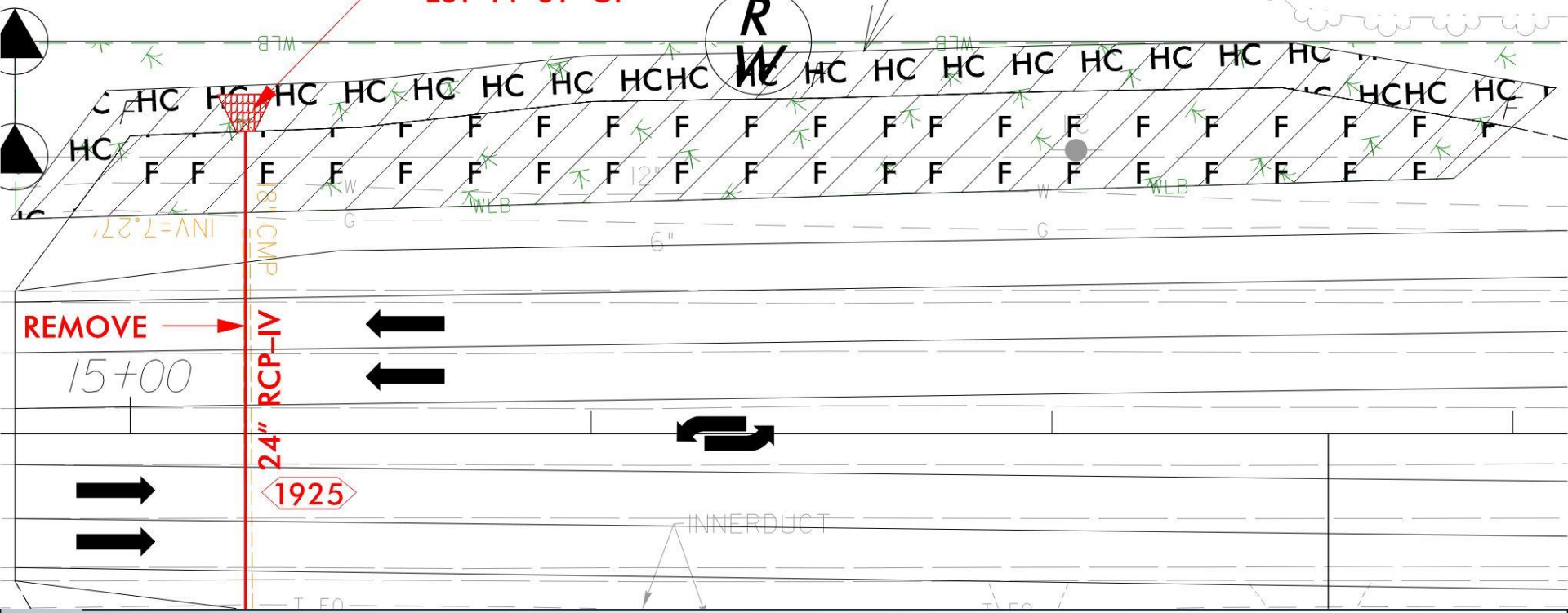
DENOTES FILL IN WETLAND  
DENOTES HAND CLEARING

SITE 1E



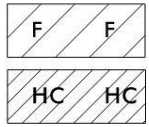
CL. B RIP RAP  
EST. 5 TON  
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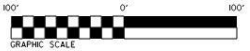




6/2/99



**DENOTES FILL IN WETLAND**  
**DENOTES HAND CLEARING**



**PERMIT DRAWING SHEET 51 OF 63**

**LOCHNER**

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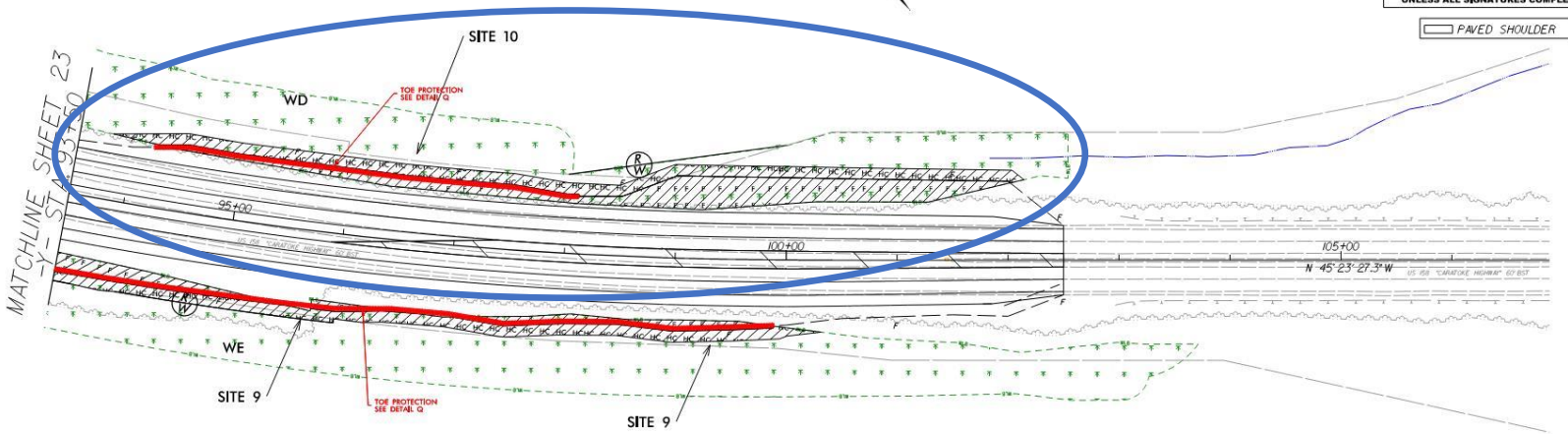
**WETHERILL ENGINEERING**  
TRANSPORTATION PLANNING DESIGN - INFRASTRUCTURAL DESIGN  
CONSULTING DESIGN - DESIGN - CONSTRUCTION ADMINISTRATION

PROJECT REFERENCE NO. **R-2576** SHEET NO. **24**

ROADWAY DESIGN ENGINEER PAVEMENT DESIGN ENGINEER

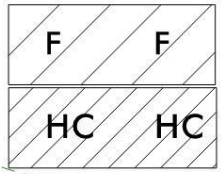
**INCOMPLETE PLANS DO NOT USE FOR P/W ACQUISITION**

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



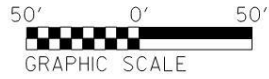
SEE SHEET 38 FOR -Y- PROFILE

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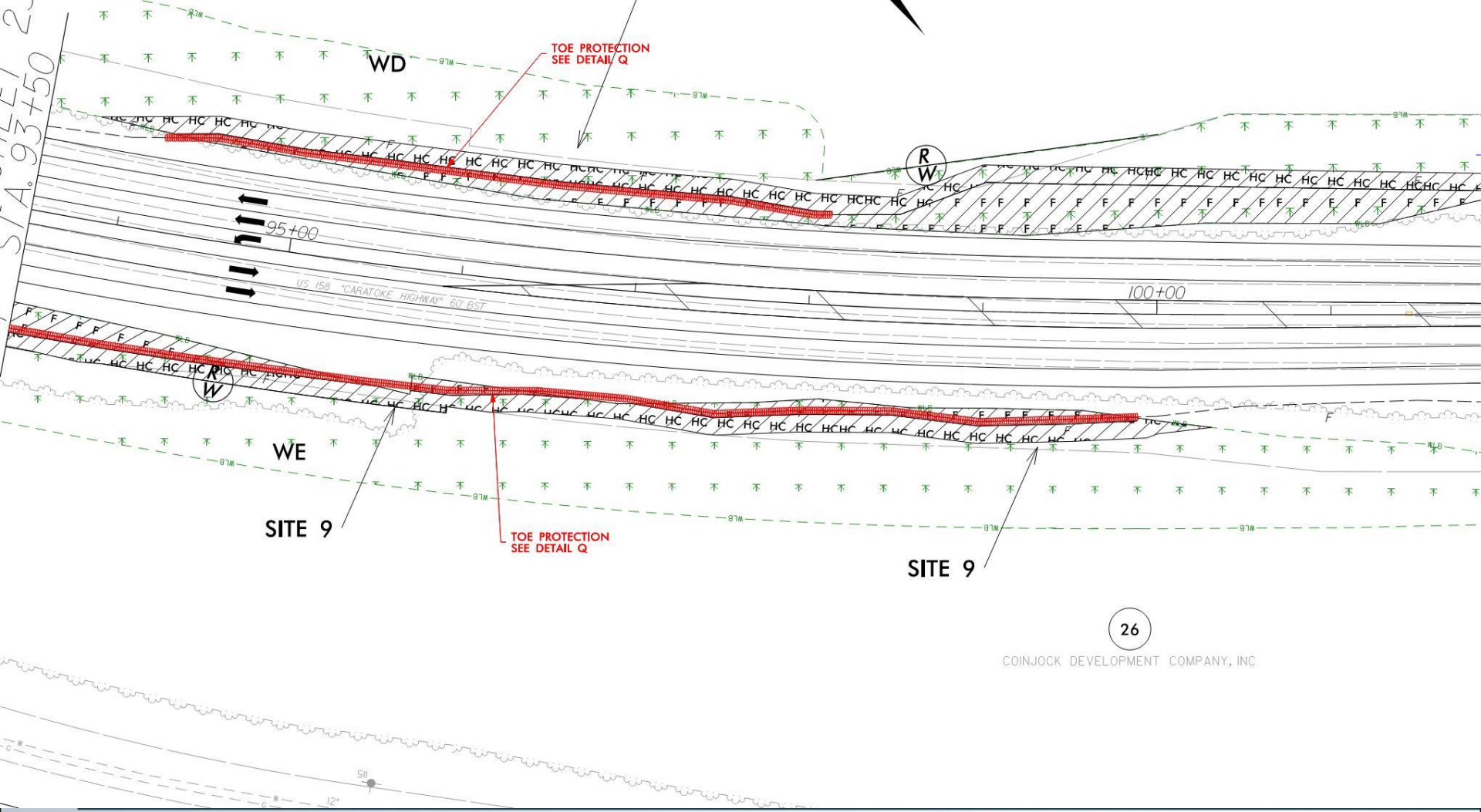


**DENOTES FILL IN  
WETLAND**

**DENOTES HAND  
CLEARING**



STA 93+50



26

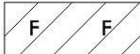



COINJOCK DEVELOPMENT COMPANY, INC

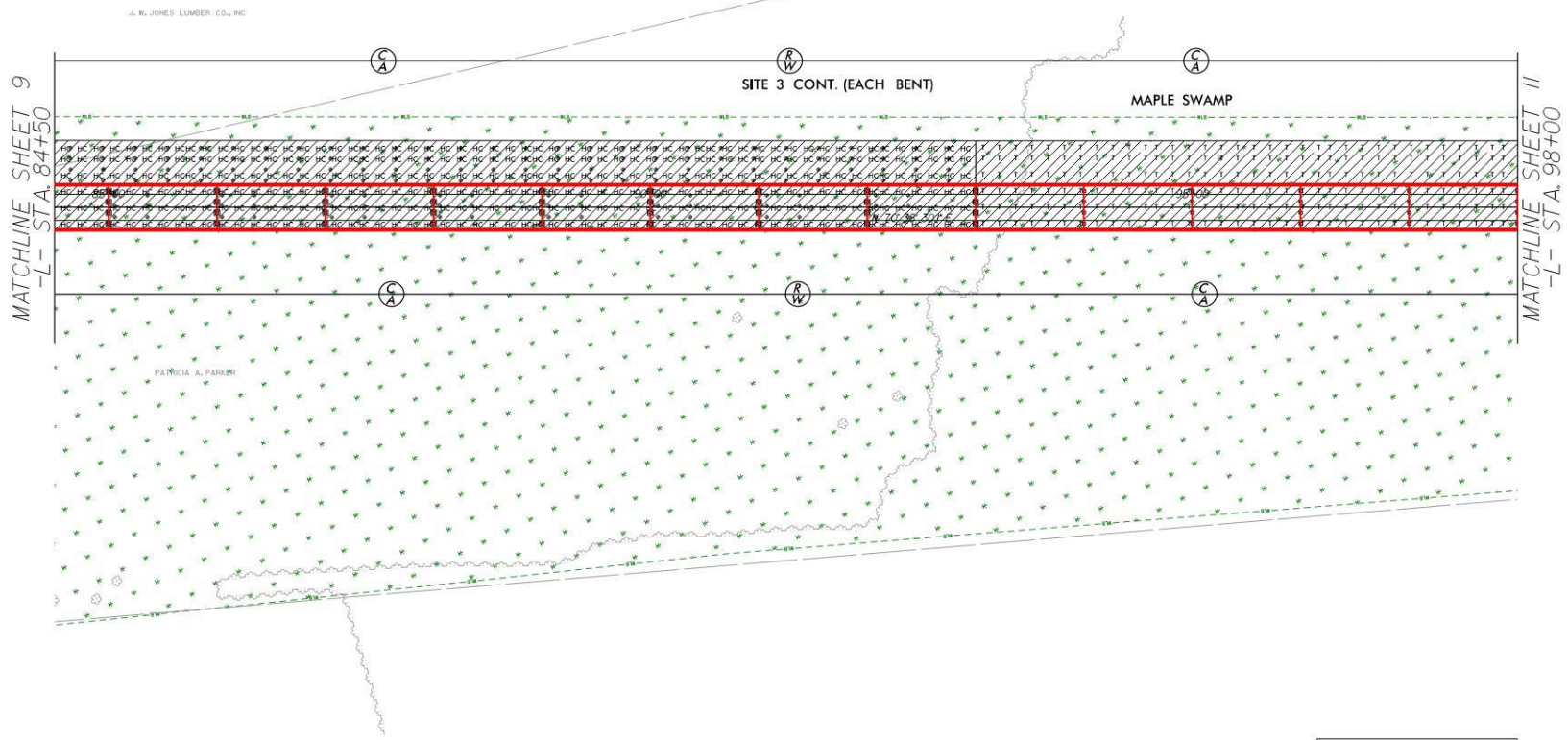
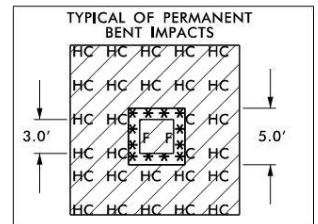
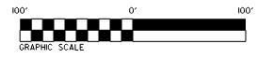


**PERMIT DRAWING**  
**SHEET 15 OF 63**

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 CONSULTING DESIGN - DESIGN - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576	SHEET NO. 10
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR P/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
 PAVED SHOULDER	

- 
**DENOTES FILL IN WETLAND (AT BENTS)**
- 
**DENOTES TEMPORARY FILL IN WETLAND (MATTING, CONT AT TEMP BENTS WHEN MATTING ENDS NEXT TO BRIDGE)**
- 
**DENOTES HAND CLEARING**
- 
**DENOTES MECHANIZED CLEARING**

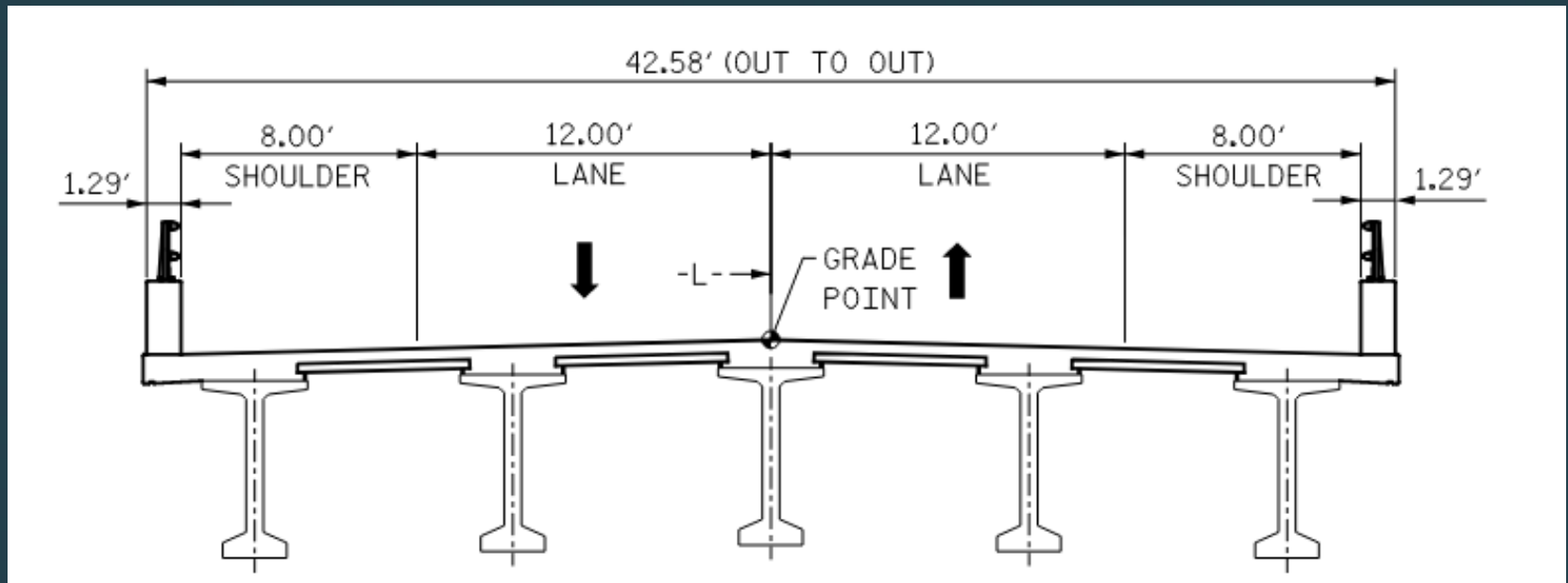


SEE SHEET 34 FOR -L- PROFILE



# Design Change on Bridges

Shoulders widened to 8 feet on each side of both the Maple Swamp Bridge and the Currituck Sound Bridge.

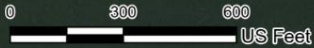
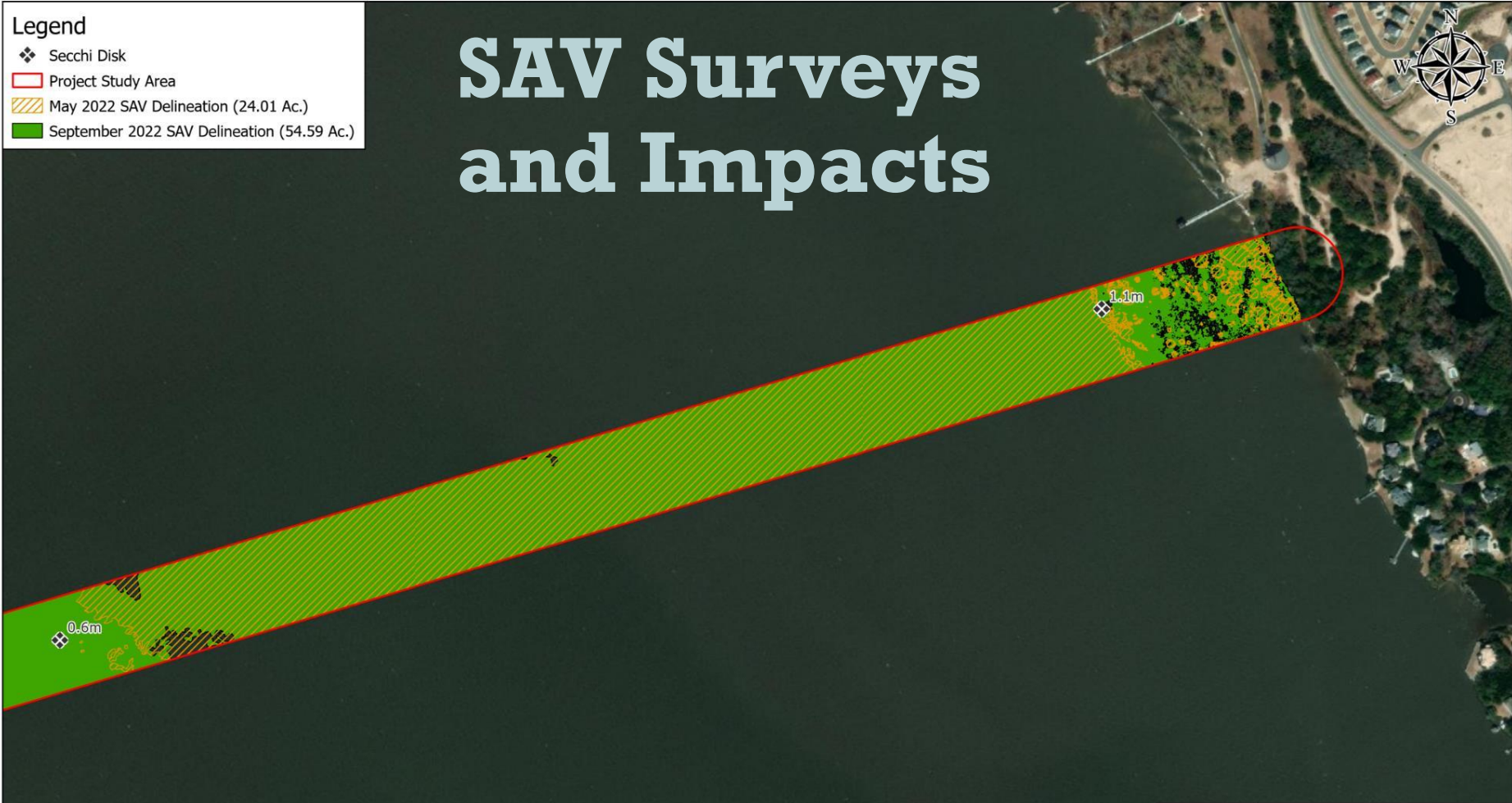




**Legend**

- ❖ Secchi Disk
- ▭ Project Study Area
- ▨ May 2022 SAV Delineation (24.01 Ac.)
- ▭ September 2022 SAV Delineation (54.59 Ac.)

# SAV Surveys and Impacts



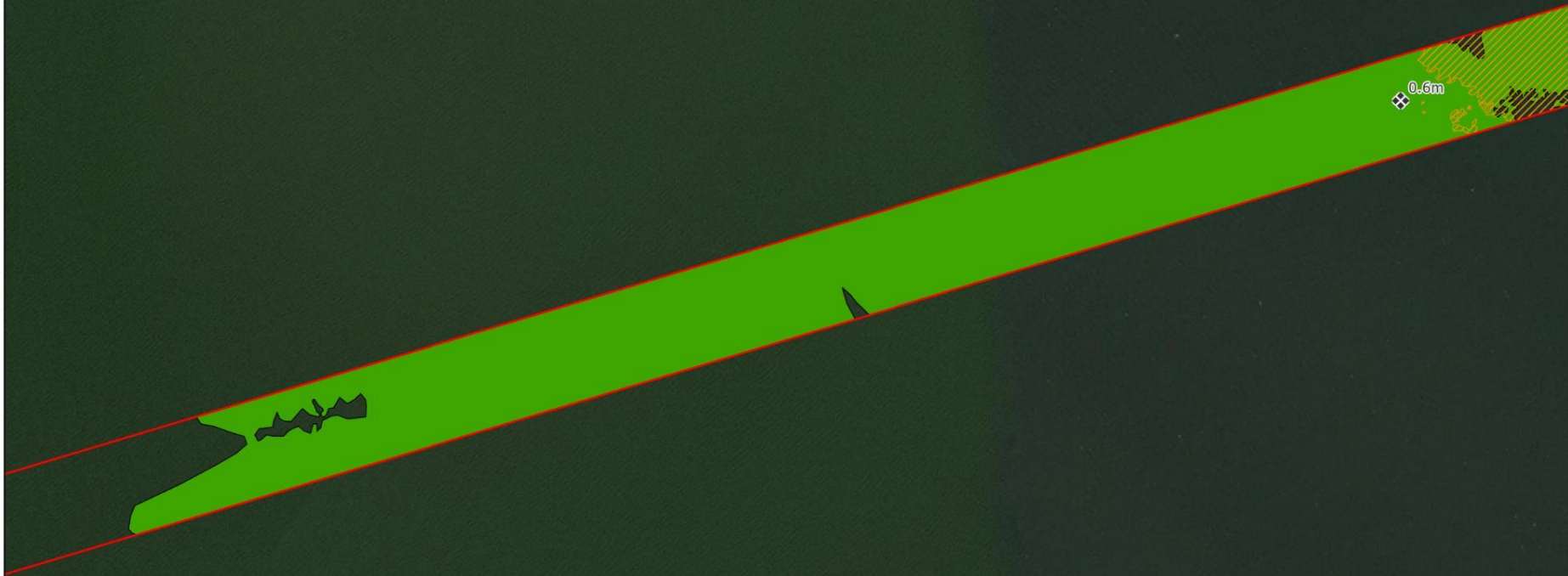
Scale: 1 in. : 300 ft.

<p>PREPARED BY:</p>	<p><b>NORTH CAROLINA</b> DEPARTMENT OF TRANSPORTATION ENVIRONMENTAL ANALYSIS UNIT</p>
<p><b>EASTERN SIDE 2022 SAV COVERAGE</b> <b>MID-CURRITUCK 2022 SAV SURVEY</b></p> <p>STIP PROJECT: R-2576 MID-CURRITUCK SOUND BRIDGE CURRITUCK COUNTY</p>	
<p>FIGURE 3A</p>	

**Legend**

- ◆ Secchi Disk
- ▭ Project Study Area
- ▨ May 2022 SAV Delineation (24.01 Ac.)
- ▭ September 2022 SAV Delineation (54.59 Ac.)

# SAV Surveys and Impacts



Scale: 1 in. : 300 ft.

<p>PREPARED BY:</p>	<p>NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ENVIRONMENTAL ANALYSIS UNIT</p>
<p><b>EASTERN SIDE 2022 SAV COVERAGE MID-CURRITUCK 2022 SAV SURVEY</b></p> <p>STIP PROJECT: R-2576 MID-CURRITUCK SOUND BRIDGE CURRITUCK COUNTY</p>	
<p>FIGURE 3B</p>	



# SAV Surveys and Impacts

SAV IMPACT DRAWING 1 OF 7

	PERMANENT IMPACTS (PERMANENT PILE LOCATIONS)	TEMPORARY IMPACTS (TEMPORARY PILE LOCATIONS)	SHADING IMPACTS (BRIDGE DECK OVER SAV)
SAV HABITAT* SEE DRAWINGS 2-4	2,568 SF (0.059 AC)	1,306 SF (0.030 AC)	348,744 SF (8.006 AC)
POTENTIAL SAV HABITAT** SEE DRAWINGS 5-7	63 SF (0.001 AC)	20 SF (0.0005 AC)	9,704 SF (0.223 AC)
TOTAL	2,631 SF (0.060 AC)	1,326 SF (0.030 AC)	358,448 SF (8.229 AC)

\*SAV HABITAT IS PRESENT IN AREAS OF EXISTING DENSE SAV BEDS OR HAVING HAD DENSE SAV BEDS PRESENT DURING ANY OF THE PAST TEN GROWING SEASONS BASED ON SAV SURVEYS. THE HABITAT AREA SHOWN REPRESENTS DATA FROM 2015 THROUGH SEPTEMBER OF 2022. DATA IS NOT AVAILABLE FOR YEARS 2012 TO 2014. SEE IMPACT DRAWINGS 2 THROUGH 4 FOR IMPACT LOCATIONS.

\*\*POTENTIAL SAV HABITAT IS PRESENT IN AREAS WITH WATER DEPTHS SIX FEET OR LESS AND HAVE SUITABLE SUBSTRATE TO SUPPORT SAV. IMPACT AREAS REPRESENT IMPACTS OUTSIDE OF THOSE ALREADY ACCOUNTED FOR AS SAV HABITAT. SEE IMPACT DRAWINGS 5 THROUGH 7 FOR IMPACT LOCATIONS.

# Updated SAV Mitigation Plan

## Mid-Currituck Bridge

### Submerged Aquatic Vegetation Mitigation Plan



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**Prepared by:**

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# Other Project Matters

NEPA Legal Challenge  
Updated Right-of-Way Plans

# Schedule & Next Steps

Submit Permit Applications  
- Early 2024



# Draft Permit Applications

- Sections 404/401 Permit Application
- CAMA Permit Application



# Discussion & Other Items

