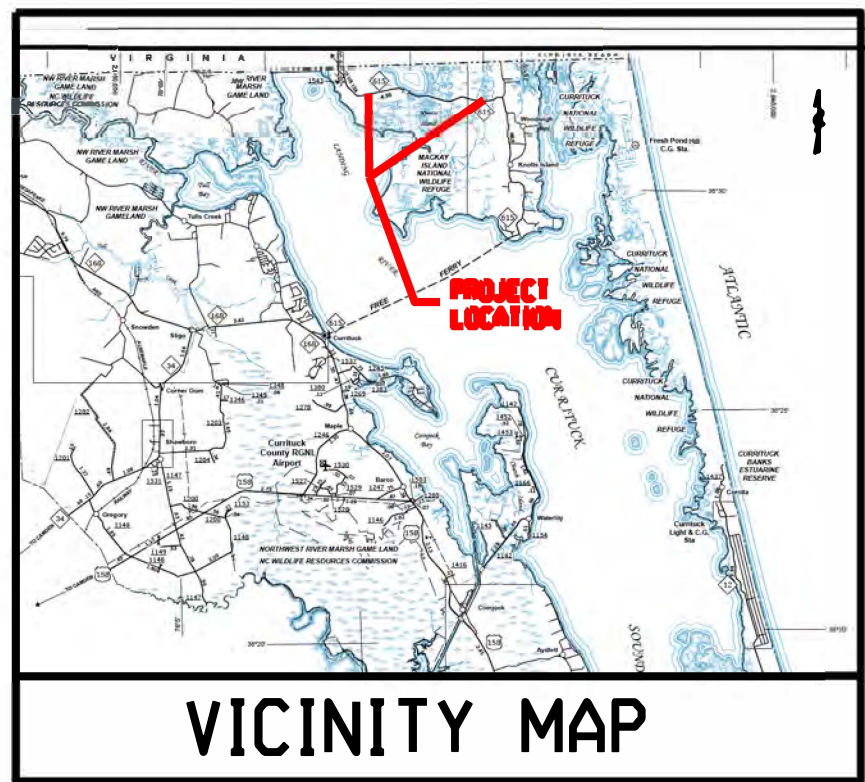


WBS#: 50804.1.1

CONTRACT: DA00650



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CURRITUCK COUNTY

LOCATION: NC 615 KNOTTS ISLAND CAUSEWAY
TYPE OF WORK: SHORELINE STABILIZATION

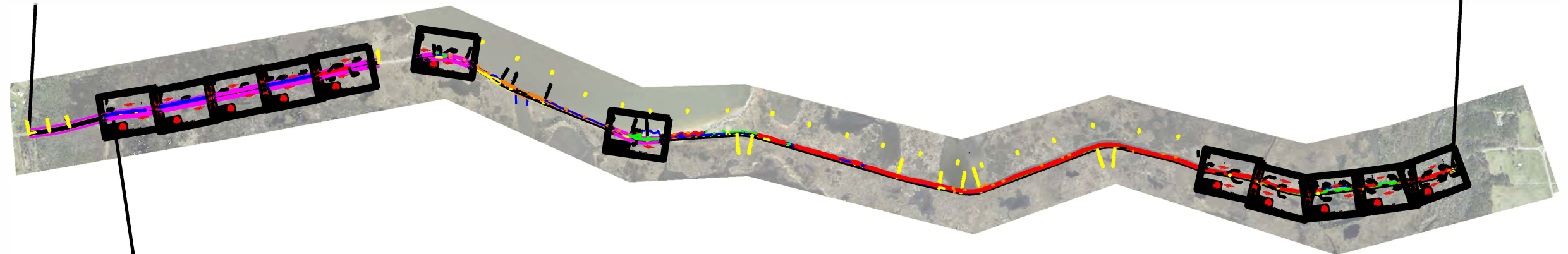
STATE	STATE PROJECT REFERENCE NO.	TOTAL SHEETS
N.C.	HF-0008	1
STATE FUNDING	F.A.FUNDING	DESCRIPTION
50804.1.1		CONST, PE



STATION 10+00.00
(275' East of Refuge Driveway)

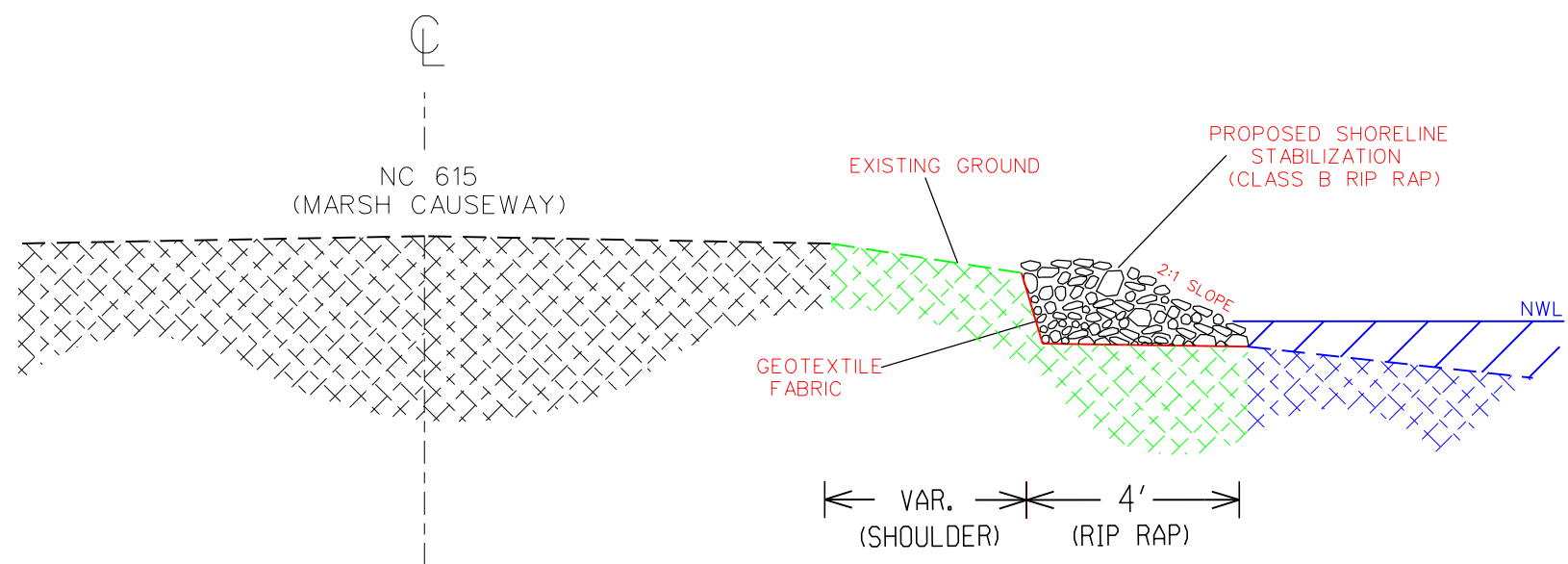
END STATION 200+45.51

BEGIN PROJECT
STA 21+08.54



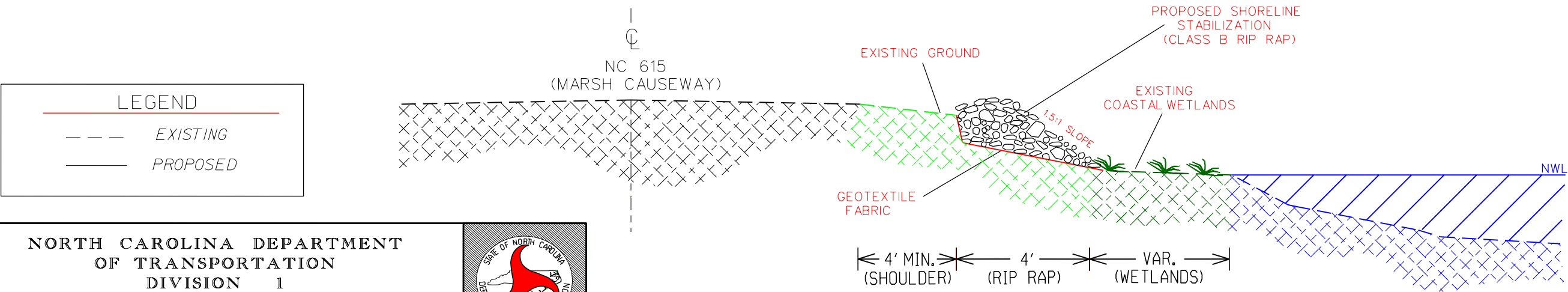
NTS	PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS 113 Airport Drive, Edenton NC 27932		W. B. HOBBS, PE DIVISION PROJECT TEAM LEAD M. S. WINSLOW DIVISION CONTRACTS ENGINEER	
	TOTAL LENGTH PROJECT: 3.61 MILES			D. H. STALLINGS DRAWN BY:		

DETAIL SECTION - CROSS SECTION 'A'



NOTE: PROPOSED CLASS B RIP RAP IS TO BE PLACED ON AN APPROVED GEOTEXTILE FABRIC

DETAIL SECTION - CROSS SECTION 'B'



LEGEND

EXISTING

PROPOSED

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION 1

113 AIRPORT DR.

EDENTON, NC 27932 (252) 482-1850

COUNTY: CURRITUCK

WBS#: 50804.1.1

QUAD: KNOTTS ISLAND

DATE: 8/03/24

BASIN: PASQUOTANK

SHEET #: 2A

SHORELINE STABILIZATION ON NC 615 KNOTTS ISLAND CAUSEWAY

LAT. = 36.539466

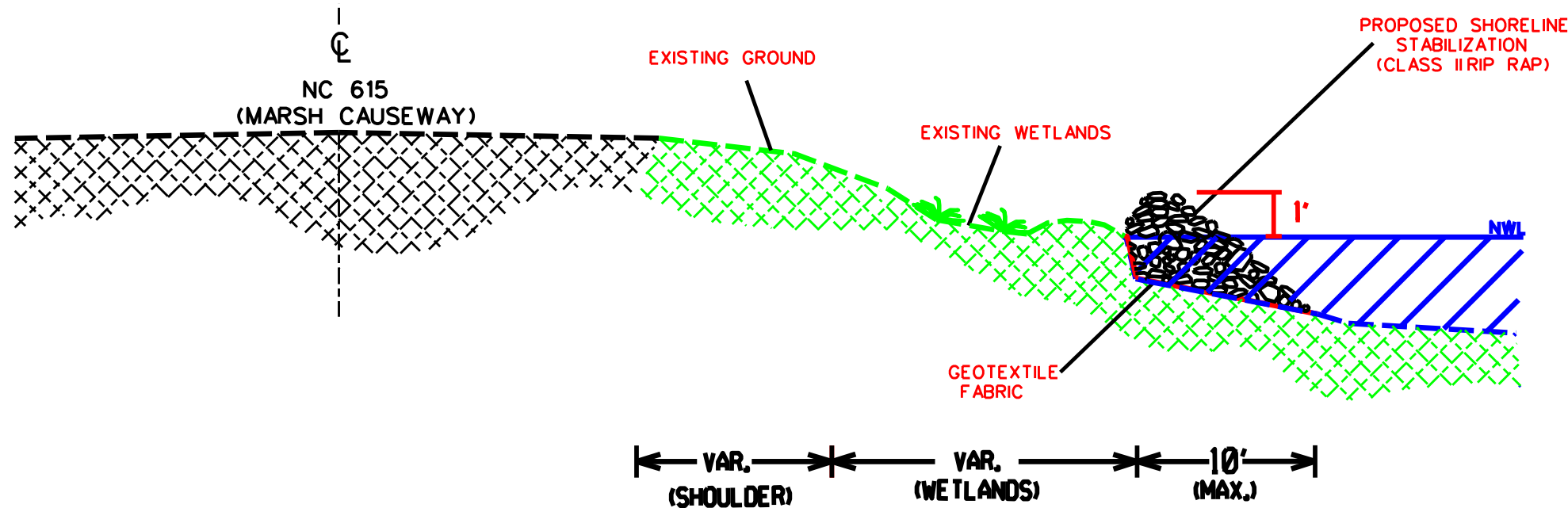
LONG. = -75.992612

DRAWN BY: D. H. STALLINGS

SCALE: 1" = 5 FT

NOTE: PROPOSED CLASS B RIP RAP IS TO BE PLACED ON AN APPROVED GEOTEXTILE FABRIC

DETAIL SECTION- CROSS SECTION 'C'



NOTE: PROPOSED CLASS II RIP RAP IS TO BE PLACED ON AN APPROVED GEOTEXTILE FABRIC

**NORTH CAROLINA DEPARTMENT
OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR.
EDENTON, NC 27932 (252) 482-1850**



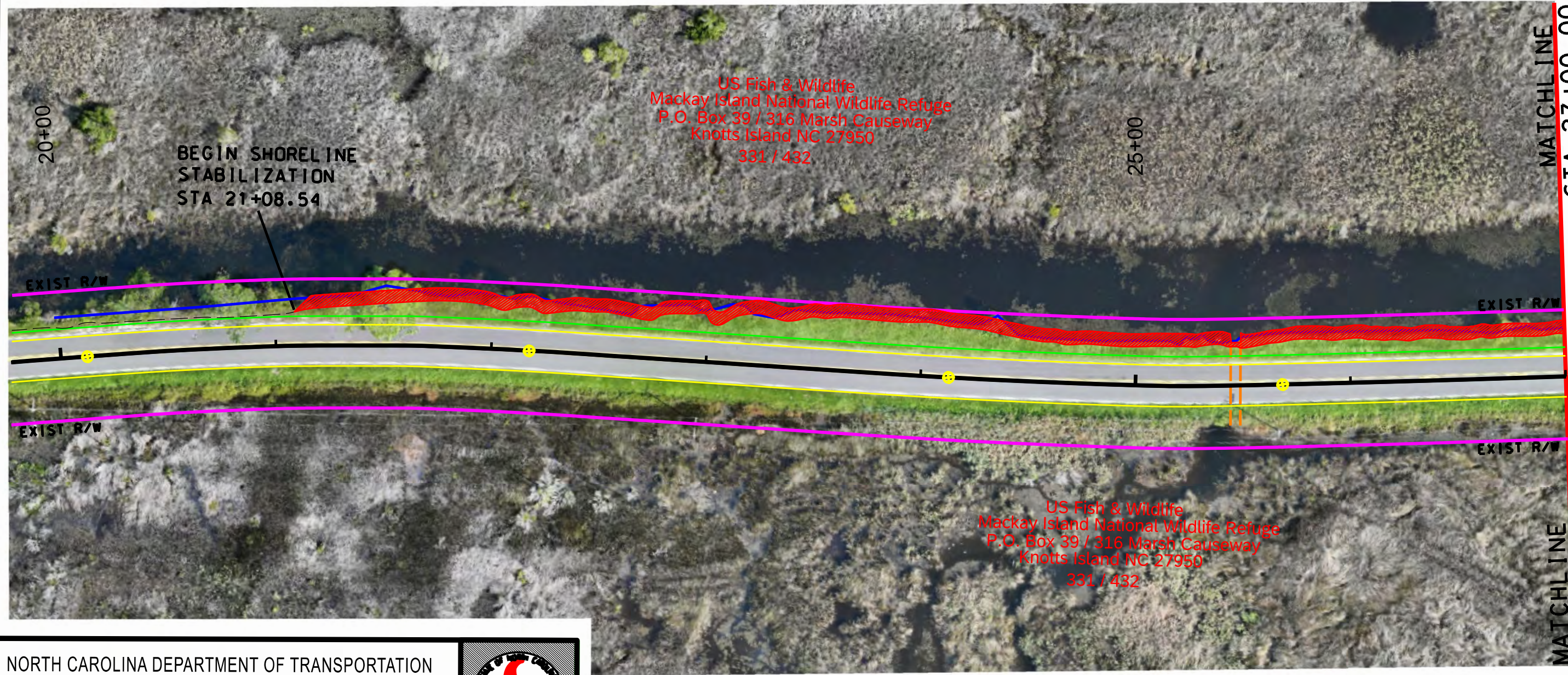
COUNTY: CURRITUCK WBS#: 50804.1.1
QUAD: KNOTTS ISLAND DATE: 8/03/24
BASIN: PASQUOTANK SHEET #: 2B

SHORELINE STABILIZATION ON NC 615 KNOTTS ISLAND CAUSEWAY

LAT. = 36.539466 LONG. = -75.992612

DRAWN BY: D. H. STALLINGS SCALE: 1" = 5 FT

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS



MATCHLINE
STA 27+00.00
SHEET 4

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850



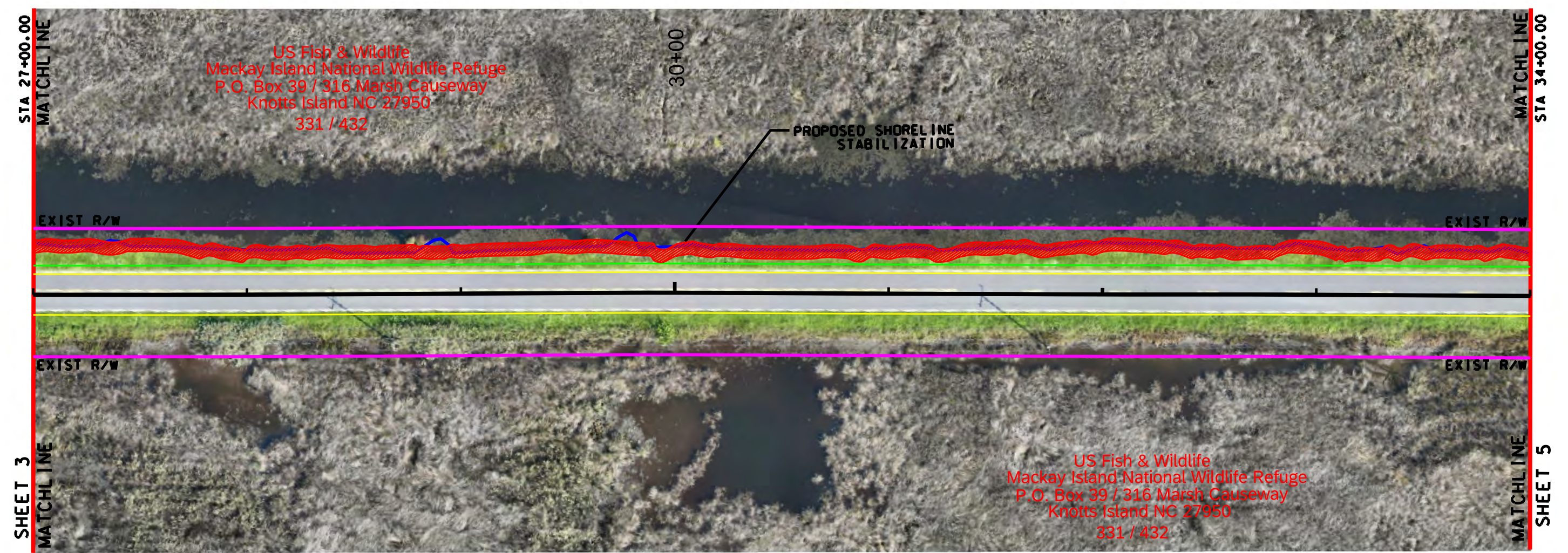
COUNTY: CURRITUCK	WBS#: 50804.1.1
QUAD: KNOTTS ISLAND	DATE: 9/18/24
BASIN: PASQUOTANK	SHEET #: 3
NC 615 SHORELINE STABILIZATION	
LAT. = 36.539466 N	LONG. = 75.992612 W
D.H. STALLINGS	SCALE: 1" = 50 Ft

Cross Section A

WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	592 L.F.
OPEN WATER IMPACT:	1,494 SQ. FT.
FILL QTY:	60 C.Y.
RIP RAP AREA:	3,467 SQ. FT.
RIP RAP QTY:	260 TONS



PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS



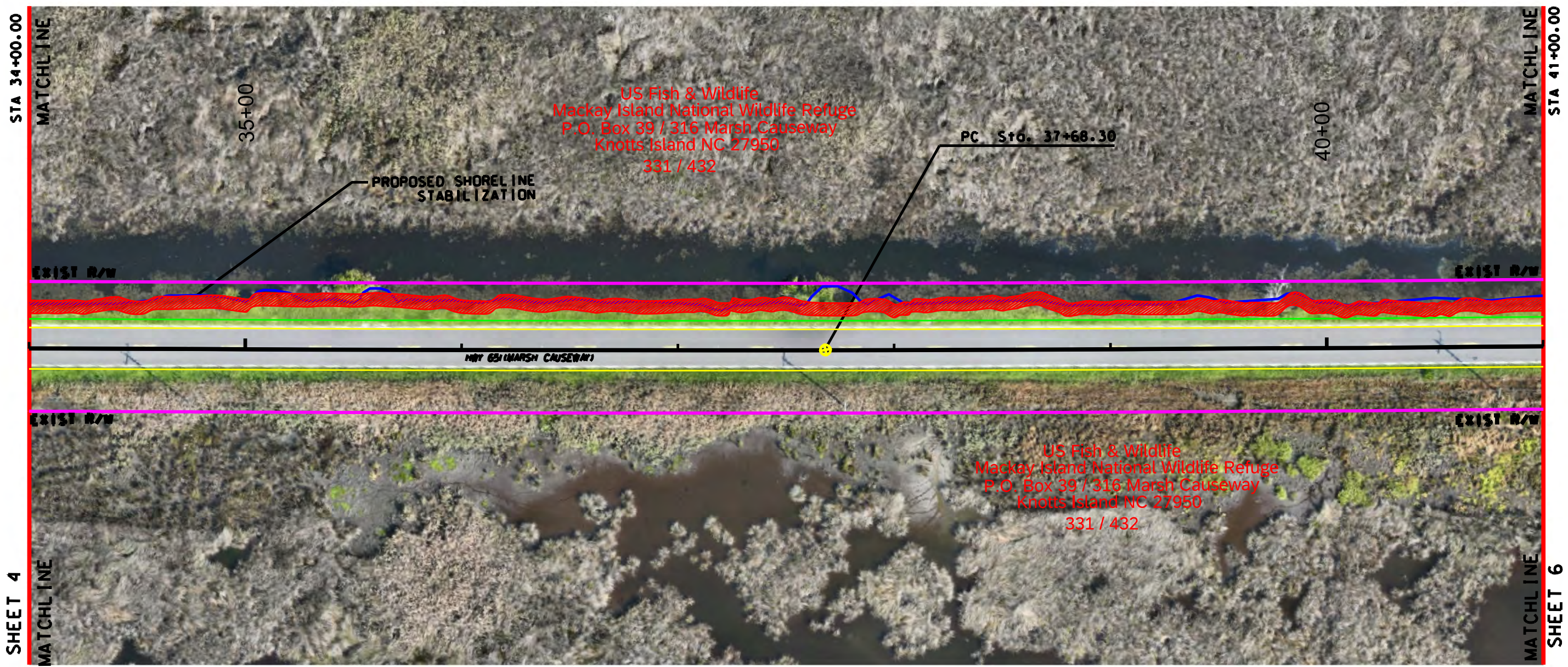
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 1 113 AIRPORT DR., SUITE 100 EDENTON, NC 27932 (252) 482-1850		
COUNTY:	CURRITUCK	
WBS#:	50804.1.1	
QUAD:	KNOTTS ISLAND	
DATE:	MARCH 18, 2024	
BASIN:	PASQUOTANK	SHEET #: 4
NC 615 SHORELINE STABILIZATION		
LAT. =	36.539466 N	
LONG. =	75.992612 W	
D.H. STALLINGS	SCALE: 1" = 50 Ft	

Cross Section A

WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	700 L.F.
OPEN WATER IMPACT:	2,059 SQ. FT.
FILL QTY:	70 C.Y.
RIP RAP AREA:	4,156 SQ. FT.
RIP RAP QTY:	305 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY

PERMIT DRAWINGS



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

DIVISION 1

113 AIRPORT DR., SUITE 100

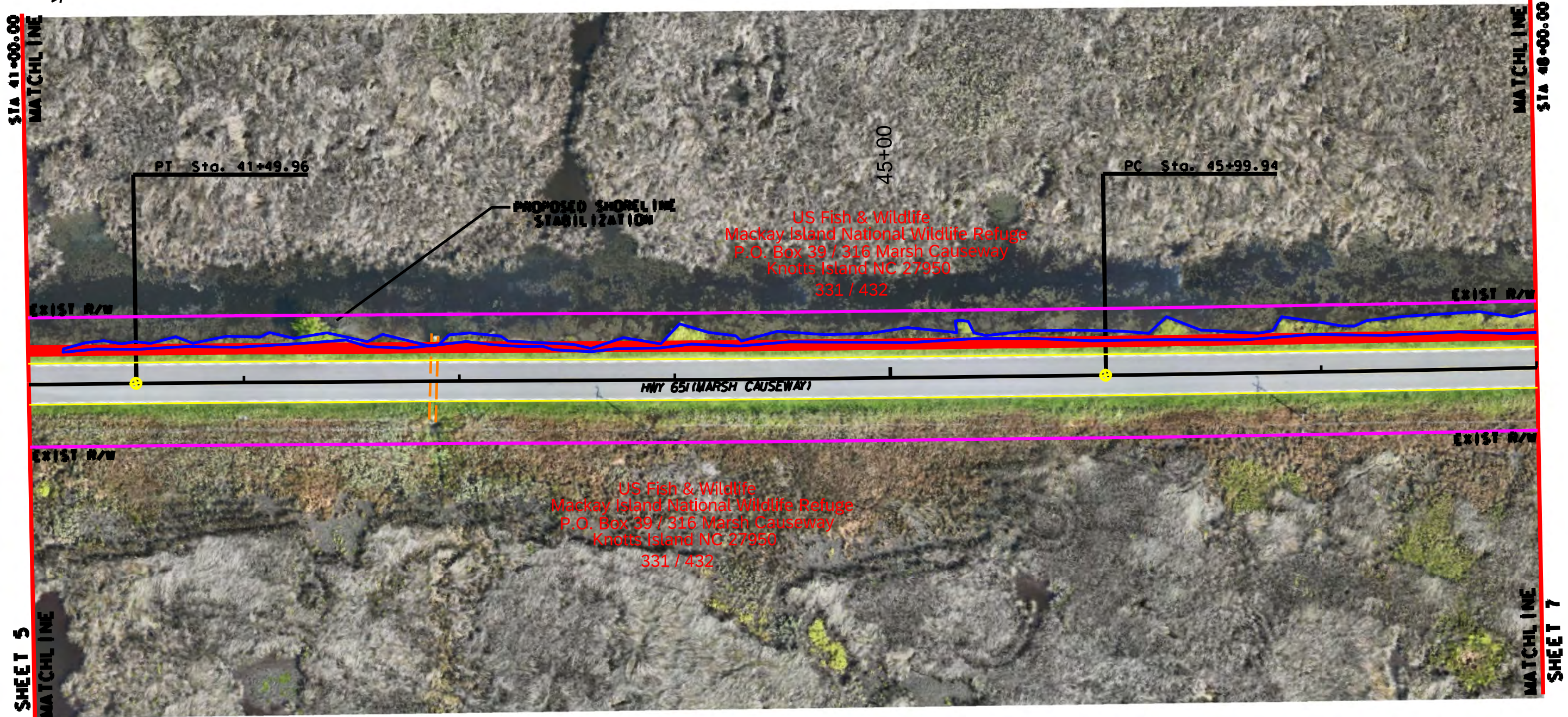
EDENTON, NC 27932 (252) 482-1850

COUNTY: CURRITUCK	WBS#: 50804.1.1
QUAD: KNOTTS ISLAND	DATE: 9/18/24
BASIN: PASQUOTANK	SHEET #: 5
NC 615 SHORELINE STABILIZATION	
LAT. = 36.539466 N	LONG. = 75.992612 W
D.H. STALLINGS	SCALE: 1" = 50 Ft

Cross Section A

WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	700 L.F.
OPEN WATER IMPACT:	1,351 SQ. FT.
FILL QTY:	70 C.Y.
RIP RAP AREA:	4,116 SQ. FT.
RIP RAP QTY:	310 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850

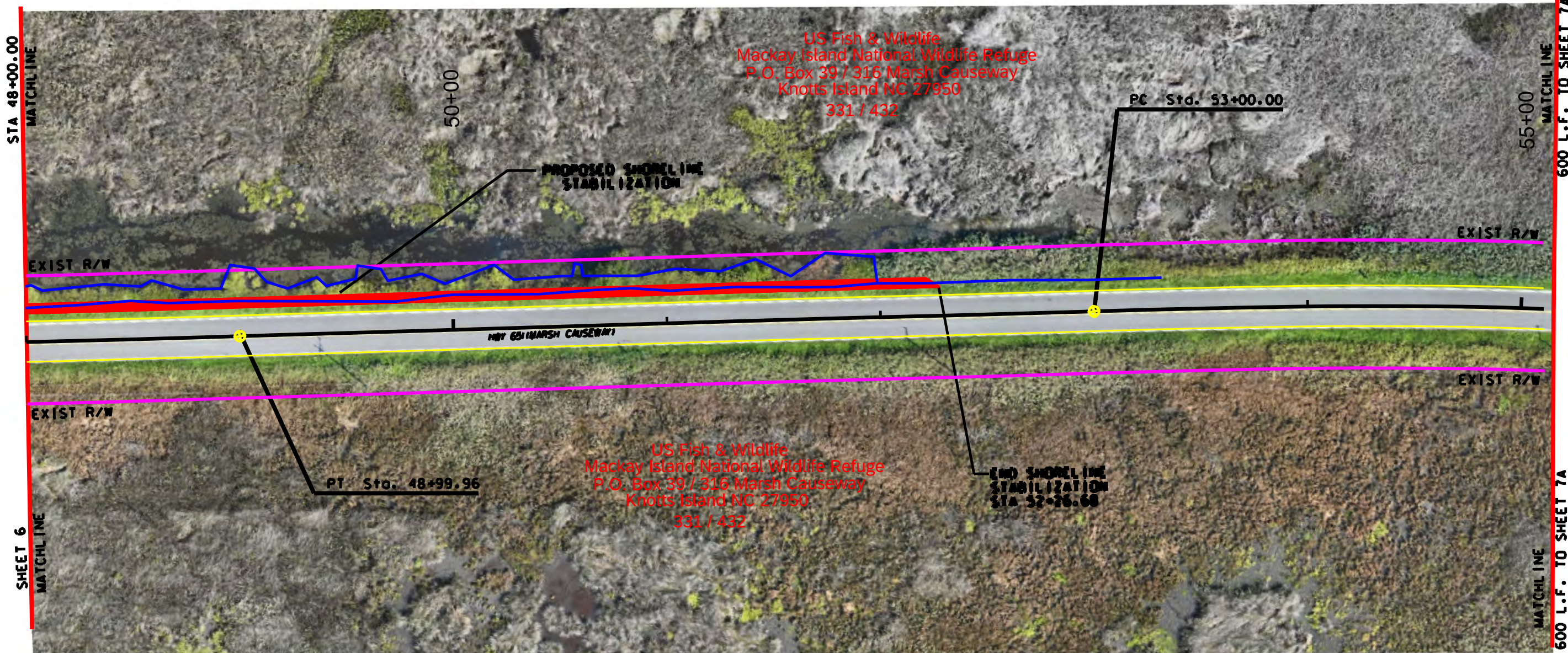


Cross Section B

COUNTY: CURRITUCK	WBS#: 50804.1.1
QUAD: KNOTTS ISLAND	DATE: 9/18/24
BASIN: PASQUOTANK	SHEET #: 6
NC 615 SHORELINE STABILIZATION	
LAT. = 36.539466 N	LONG. = 75.992612 W
D.H. STALLINGS	SCALE: 1" = 50 Ft

WETLAND IMPACTS:	794 SQ. FT.
SHORELINE STABILIZATION:	700 L.F.
OPEN WATER IMPACT:	37 SQ. FT.
FILL QTY:	70 C.Y.
RIP RAP AREA:	2,800 SQ. FT.
RIP RAP QTY:	310 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850



Cross Section B

COUNTY: CURRITUCK WBS#: 50804.1.1
QUAD: KNOTTS ISLAND DATE: 9/18/24
BASIN: PASQUOTANK SHEET #: 7

NC 615 SHORELINE STABILIZATION

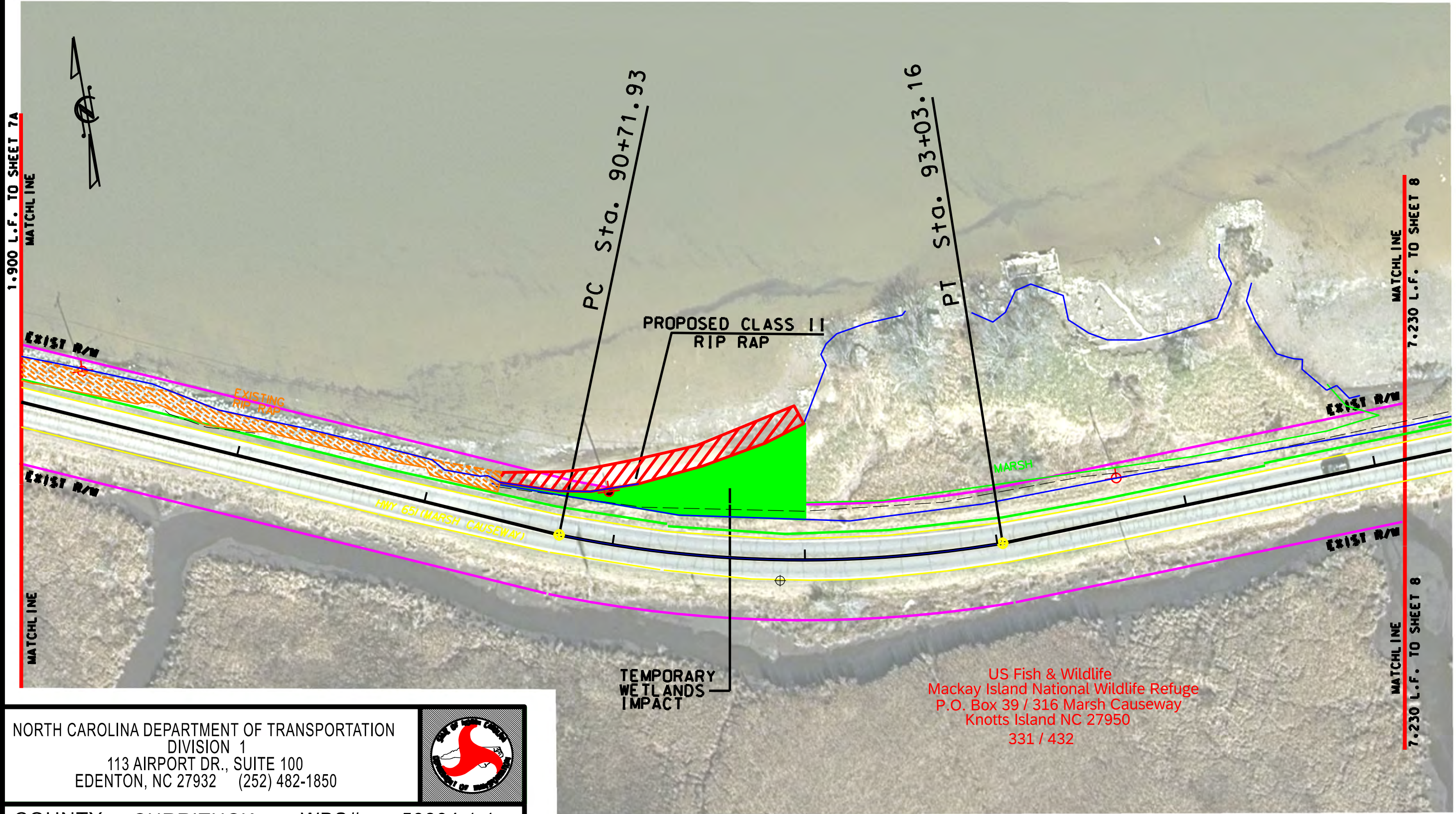
LAT. = 36.539466 N LONG. = 75.992612 W

D.H. STALLINGS SCALE: 1" = 50 Ft

WETLAND IMPACTS:	671 SQ. FT. (404 WETLANDS : 48 SQ. FT.)
SHORELINE STABILIZATION:	427 L.F.
OPEN WATER IMPACT:	0 SQ. FT.
FILL QTY:	43 C.Y.
RIP RAP AREA:	1,708 SQ. FT.
RIP RAP QTY:	185 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS

PROJECT REFERENCE NO.	SHEET NO.
HF-0008	7-B



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
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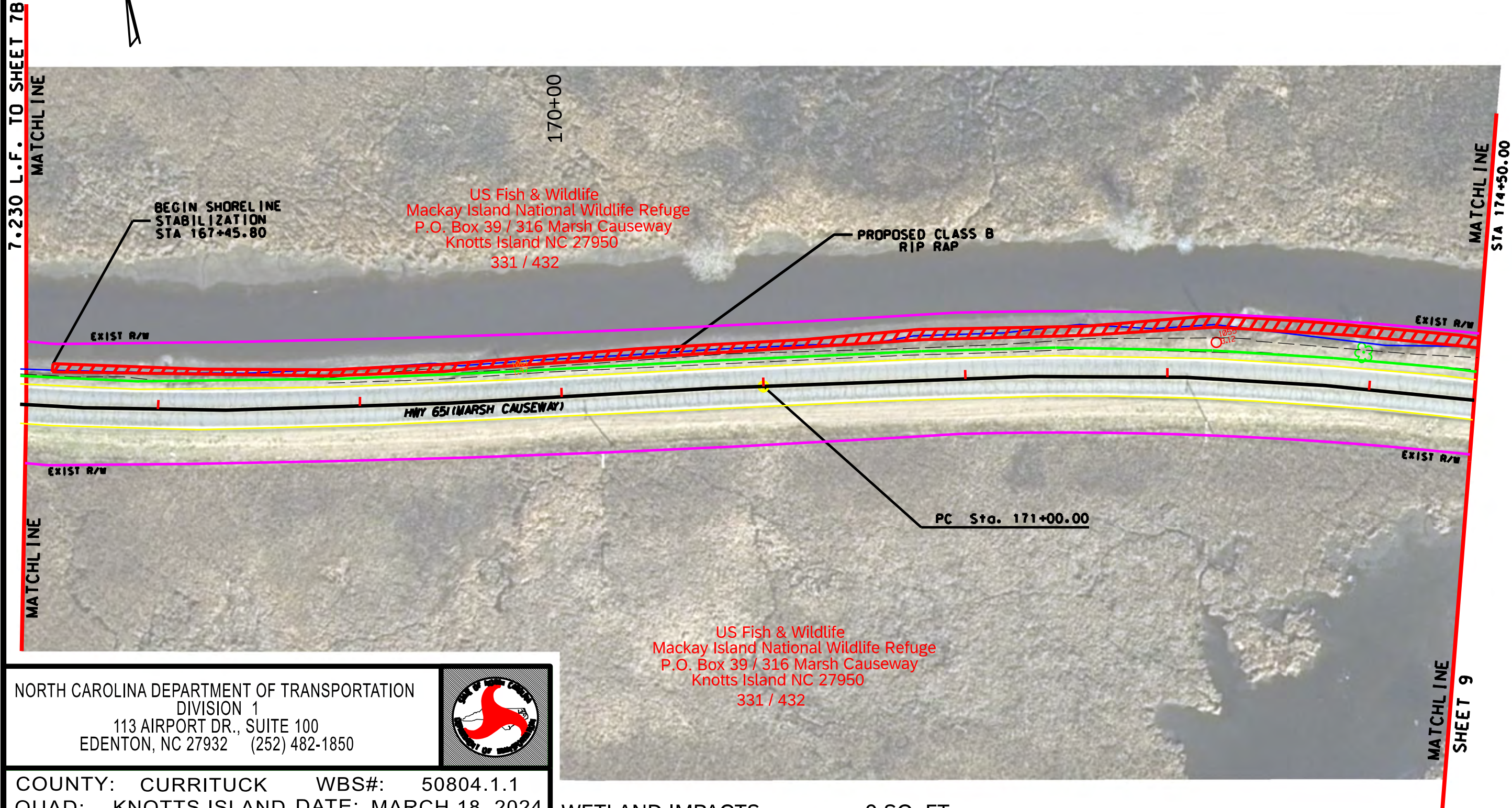


COUNTY:	CURRITUCK	WBS#:	50804.1.1
QUAD:	KNOTTS ISLAND	DATE:	9/18/24
BASIN:	PASQUOTANK	SHEET #:	7-B
NC 615 SHORELINE STABILIZATION			
LAT. = 36.539466 N		LONG. = 75.992612 W	
D.H. STALLINGS		SCALE: 1" = 50 Ft	

WETLAND IMPACTS:	2,903 SQ. FT. (TEMP.)
SHORELINE STABILIZATION:	161 L.F.
OPEN WATER IMPACT:	1,749 SQ. FT.
FILL QTY:	16 C.Y.
RIP RAP AREA:	1,749 SQ. FT.
RIP RAP QTY:	70 TONS

Cross Section C

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS



US Fish & Wildlife
Mackay Island National Wildlife Refuge
P.O. Box 39 / 316 Marsh Causeway
Knotts Island NC 27950
331 / 432

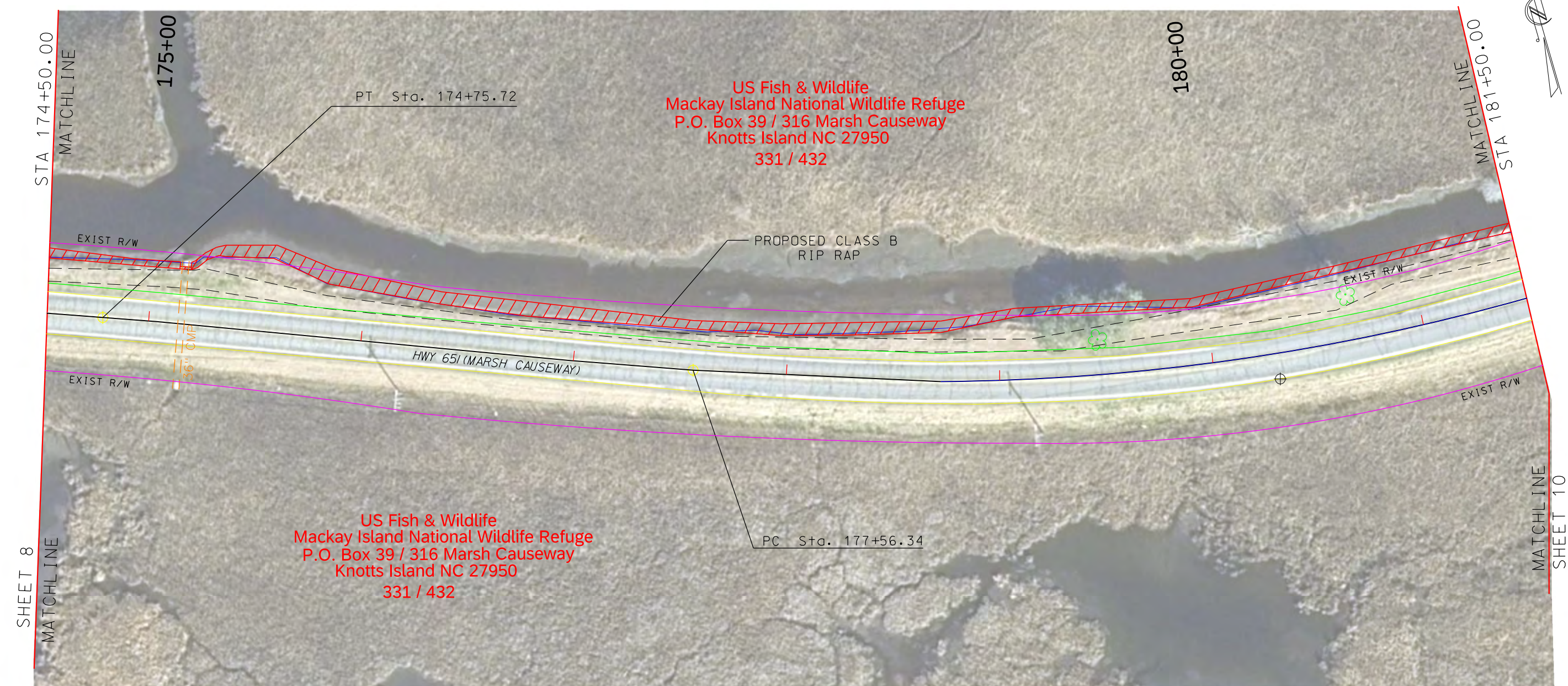
US Fish & Wildlife
Mackay Island National Wildlife Refuge
P.O. Box 39 / 316 Marsh Causeway
Knotts Island NC 27950
331 / 432

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 1 113 AIRPORT DR., SUITE 100 EDENTON, NC 27932 (252) 482-1850	
	
COUNTY: CURRITUCK	WBS#: 50804.1.1
QUAD: KNOTTS ISLAND	DATE: MARCH 18, 2024
BASIN: PASQUOTANK	SHEET #: 8
NC 615 SHORELINE STABILIZATION	
LAT. = 36.539466 N	LONG. = 75.992612 W
D.H. STALLINGS	SCALE: 1" = 50 Ft

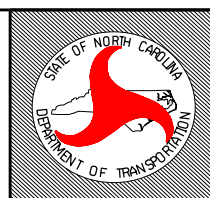
WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	704 L.F.
OPEN WATER IMPACT:	1,920 SQ. FT.
FILL QTY:	71 C.Y.
RIP RAP AREA:	3,380 SQ. FT.
RIP RAP QTY:	310 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS

PROJECT REFERENCE NO.	SHEET NO.
HF-0008	9



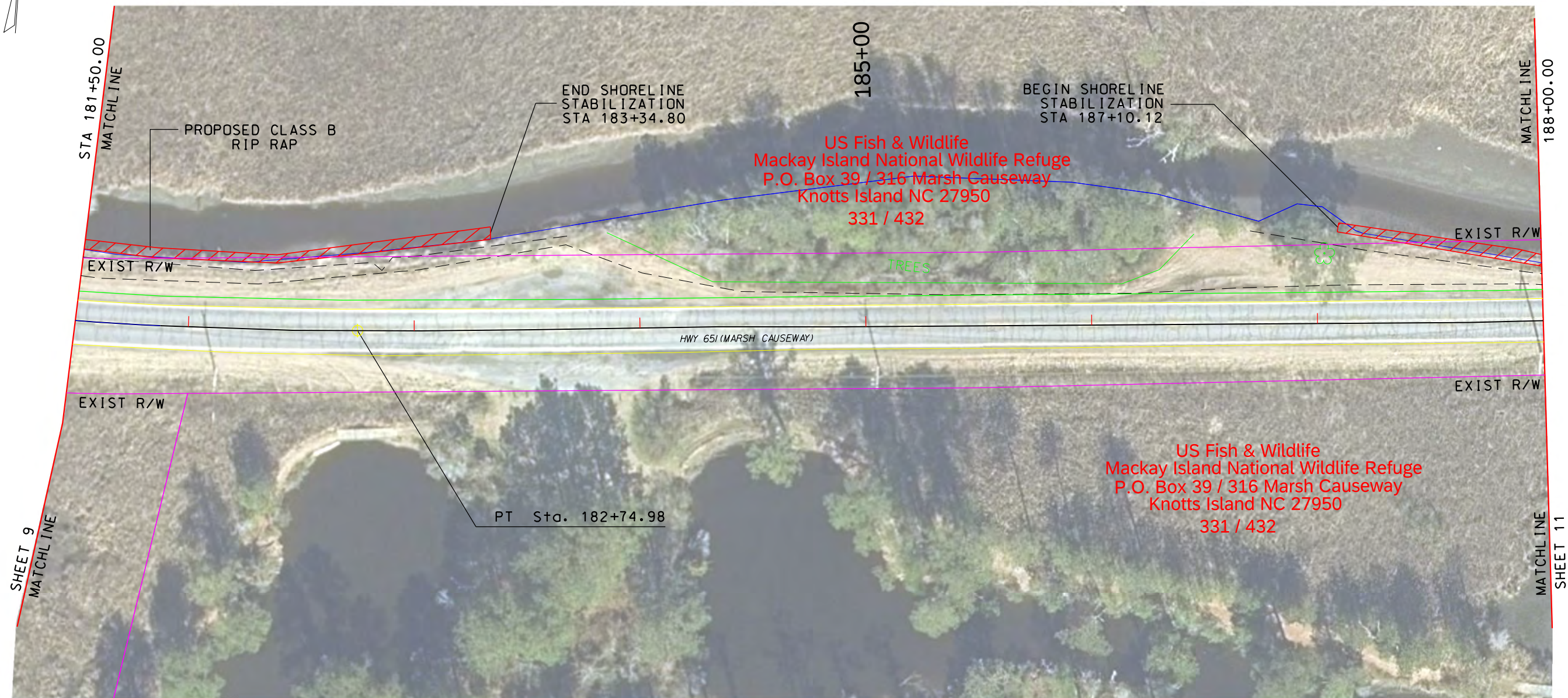
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850



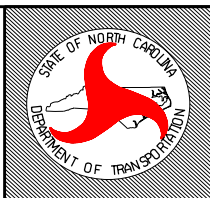
Cross Section A

COUNTY: CURRITUCK	WBS#: 50804.1.1
QUAD: KNOTTS ISLAND	DATE: MARCH 18, 2024
BASIN: PASQUOTANK	SHEET #: 9
NC 615 SHORELINE STABILIZATION	
LAT. = 36.539466 N	LONG. = 75.992612 W
D.H. STALLINGS	SCALE: 1" = 50 Ft

WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	700 L.F.
OPEN WATER IMPACT:	2,929 SQ. FT.
FILL QTY:	70 C.Y.
RIP RAP AREA:	3,440 SQ. FT.
RIP RAP QTY:	305 TONS



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850



Cross Section A

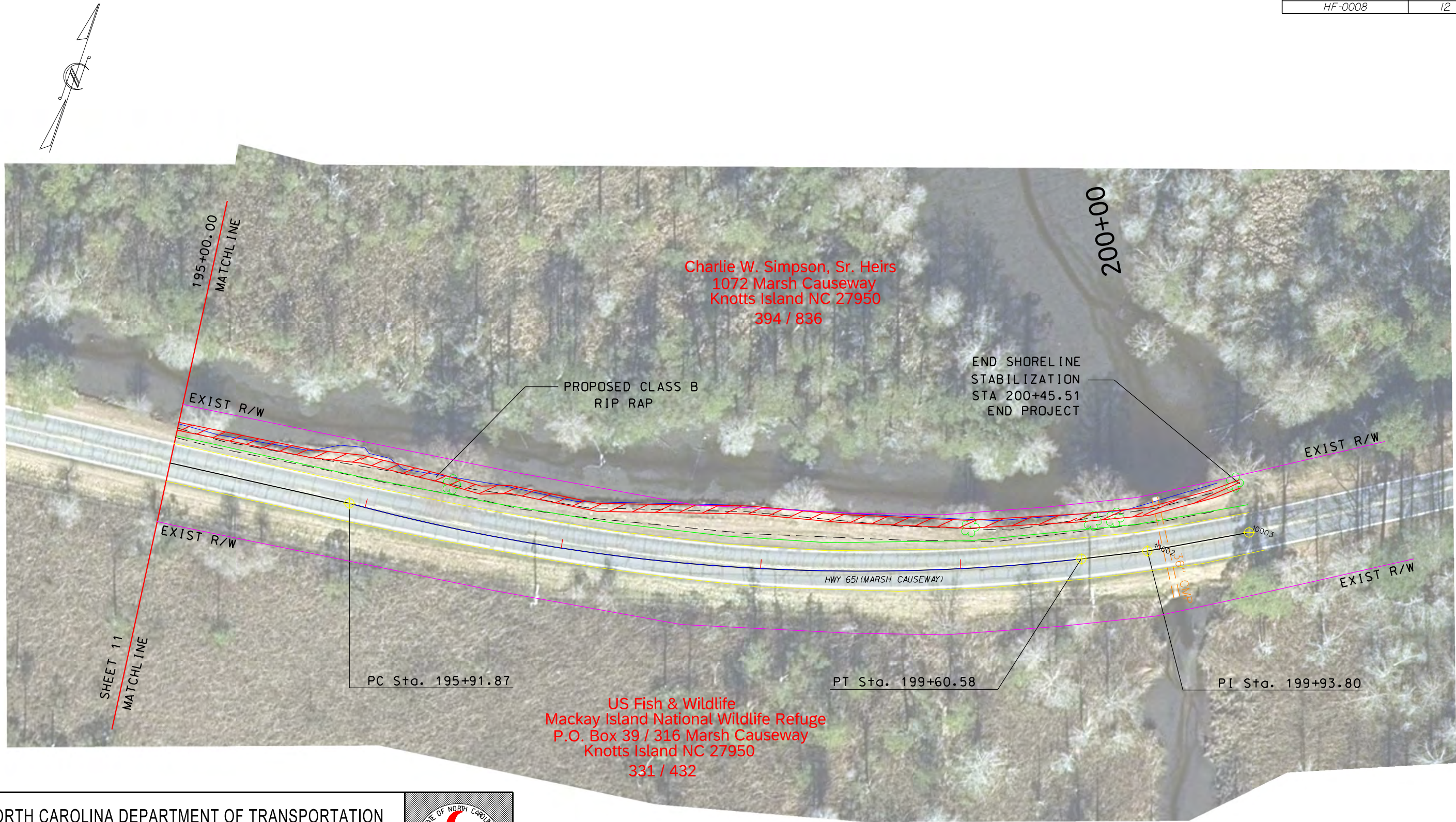
COUNTY: CURRITUCK WBS#: 50804.1.1
QUAD: KNOTTS ISLAND DATE: MARCH 18, 2024
BASIN: PASQUOTANK SHEET #: 10

NC 615 SHORELINE STABILIZATION

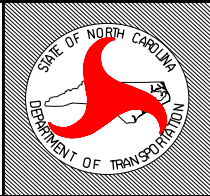
LAT. = 36.539466 N LONG. = 75.992612 W

D.H. STALLINGS SCALE: 1" = 50 Ft

WETLAND IMPACTS: 0 SQ. FT.
SHORELINE STABILIZATION: 275 L.F.
OPEN WATER IMPACT: 1,035 SQ. FT.
FILL QTY: 28 C.Y.
RIP RAP AREA: 1,283 SQ. FT.
RIP RAP QTY: 120 TONS



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION 1
113 AIRPORT DR., SUITE 100
EDENTON, NC 27932 (252) 482-1850



COUNTY: CURRITUCK		WBS#: 50804.1.1
QUAD: KNOTTS ISLAND		DATE: MARCH 18, 2024
BASIN: PASQUOTANK		SHEET #: 12
NC 615 SHORELINE STABILIZATION		
LAT. = 36.539466 N	LONG. = 75.992612 W	
D.H. STALLINGS	SCALE: 1" = 50 Ft	

Cross Section A

WETLAND IMPACTS:	0 SQ. FT.
SHORELINE STABILIZATION:	546 L.F.
OPEN WATER IMPACT:	197 SQ. FT.
FILL QTY:	55 C.Y.
RIP RAP AREA:	2,184 SQ. FT.
RIP RAP QTY:	240 TONS

PROPOSED NC 615 KNOTTS ISLAND CAUSEWAY
PERMIT DRAWINGS

PLAN SHEET SUMMARY

PLAN SHEET #	SHORELINE STABILIZATION	WETLAND IMPACTS (** - TEMPORARY)	OPEN WATER IMPACTS	RIP RAP AREA	FILL QUANTITY	RIP RAP QUANTITY
3	592 L.F.	0	1,494 SQ FT	3,467 SQ FT	60 C. Y.	260 TONS
4	700 L.F.	0	2,059 SQ FT	4,156 SQ FT	70 C. Y.	305 TONS
5	700 L.F.	0	1,351 SQ FT	4,116 SQ FT	70 C. Y.	310 TONS
6	700 L.F.	794 SQ FT	37 SQ FT	2,800 SQ FT	70 C. Y.	310 TONS
7	427 L.F.	671 SQ FT +48 SQ FT ***	0 SQ FT	1,708 SQ FT	43 C. Y.	185 TONS
* 7-A	93 L.F.	932 SQ FT **	676 SQ FT	676 SQ FT	10 C. Y.	40 TONS
* 7-B	160 L.F.	2,903 SQ FT **	1,749 SQ FT	1,749 SQ FT	16 C. Y.	70 TONS
* 8	704 L.F.	0	1,920 SQ FT	3,380 SQ FT	71 C. Y.	310 TONS
* 9	700 L.F.	0	2,929 SQ FT	3,440 SQ FT	70 C. Y.	305 TONS
* 10	275 L.F.	0	1,035 SQ FT	1,283 SQ FT	28 C. Y.	120 TONS
* 11	422 L.F.	0	984 SQ FT	1,688 SQ FT	42 C. Y.	185 TONS
* 12	546 L.F.	0	197 SQ FT	2,184 SQ FT	55 C. Y.	240 TONS
TOTALS:	6,019 L.F.	5,348 SQ FT**	14,431 SQ FT	30,647 SQ FT	605 C. Y.	2,640 TONS

* NOTE: SHEETS 7A, 7B, & SHEETS 8-12 WERE PREVIOUSLY AUTHORIZED UNDER CAMA PERMIT NO. 14-20,
CORPS ACTION ID SAW-2019-02404 & NCDWR PROJECT NO. 20200064

** NOTE: TEMPORARY WETLAND IMPACTS

*** NOTE: 404 WETLAND IMPACTS

PROJECT NO.	SHEET NO.	TOTAL NO.
50804.1.1	14	

SUMMARY OF QUANTITIES

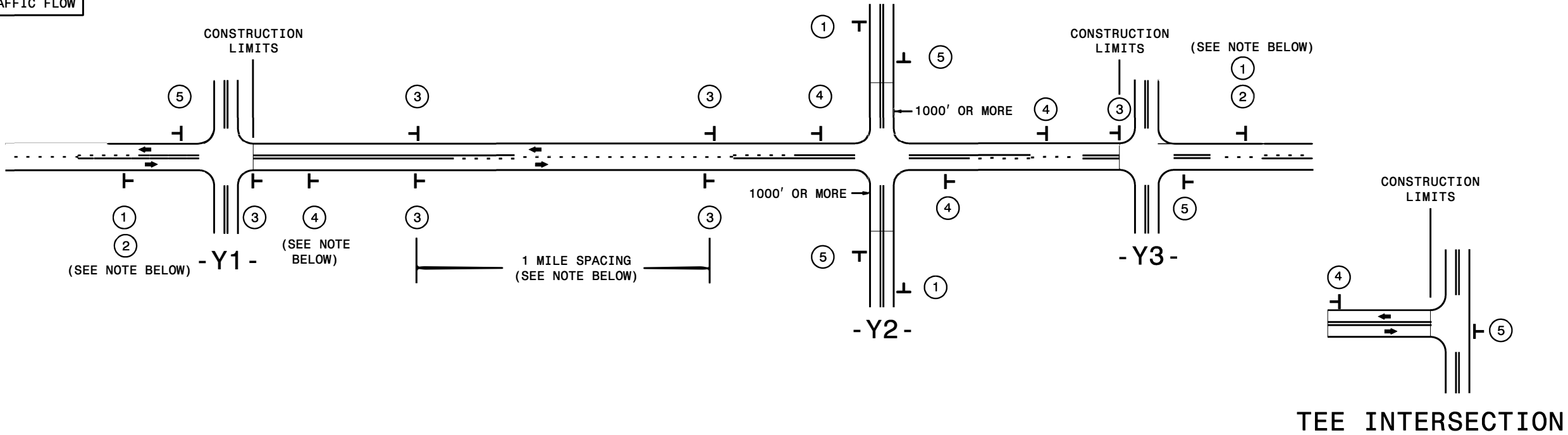
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PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	MOBILIZATION	BORROW EXCAVATION	GEOTEXTILE FOR SOIL STABILIZATION	GENERIC GRADING ITEM (SHOULDER & SLOPE RECONSTRUCTION)	RIP RAP CLASS II	RIP RAP, CLASS B	WORK ZONE ADVANCE / GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	TEMPORARY SILT FENCE	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL	GENERIC EROSION CONTROL ITEM (NATURAL FIBER MATTING)
										MI	FT				CY	SY	SY	TON	TON	SF	LS	LF	ACR	EA	SY
50804.1.1	Currituck	1	NC 615	SHORELINE STABILIZATION	A,B,C	2		NO	NO	3.61	10	0	3.61	1	605	6,940	4,153	110	2,530	240	1	1,500	1.00	4	4,153
																				240	1				
TOTAL FOR PROJ NO. 50804.1.1										3.61					605	6,940	4,153	110	2,530			1,500	1.00	4	4,153
																				240	1				
GRAND TOTAL										3.61				1	605	6,940	4,153	110	2,530			1,500	1.00	4	4,153

SIGNING FOR PROJECT

LEGEND

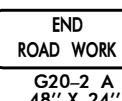
STATIONARY SIGN

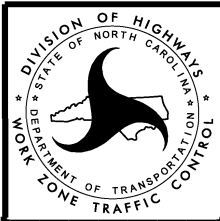
DIRECTION OF TRAFFIC FLOW



MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1 2  W20-1 48" X 48"  W7-3aP 24" X 18" PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE. #2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)	NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS: 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.	
	3  SP 13107 48" X 48" - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.		 W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	4  SP 13106 48" X 48" - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.		
	5  G20-2 A 48" X 24" PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		
	THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.		
LESS 2 MILES	FOR PROJECTS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.		



ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY