



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

March 13, 2023

MEMORANDUM TO: Division Environmental and Construction Units

FROM: *mat* Michael A. Turchy, ECAP Group Leader
Environmental Analysis Unit

SUBJECT: Environmental Permit for the Fuquay-Varina Townwide ITS/Signal System, Wake County, Division 5.,
TIP: U-6022.

Please find enclosed the following permit for this project:

Agency	Permit Type	Permit Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Nationwide 57 [non-notifying]	March 14, 2026
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 4275 [NW57] [non-notifying]	March 14, 2026

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) is required.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at:
https://xfer.services.ncdot.gov/pdea/PermIssued/_General_Conditions_and_Certifications/

PROJECT COMMITMENTS

T.I.P. Project No U-6022
Town of Fuquay-Varina Construct Townwide ITS/Signal System Wake County
Federal Aid Project No. BFANY-0507(011)
WBS Element 47148.1.1

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

Community Resources (NCDOT Division 5 Construction)

The project will comply with Americans with Disabilities Act (ADA) requirements and best practices for pedestrian accessibility within public rights-of-way. The NCDOT Resident Engineer will coordinate with the NCDOT Division of Bicycle and Pedestrian Transportation and Work Zone Safety Program to ensure that temporary and permanent improvements do not physically block pedestrian paths/ramps and that pedestrian detours or re-routing of sidewalks during construction comply with ADA standards and best practices.

Cultural Resources (NCDOT Division 5 Construction)

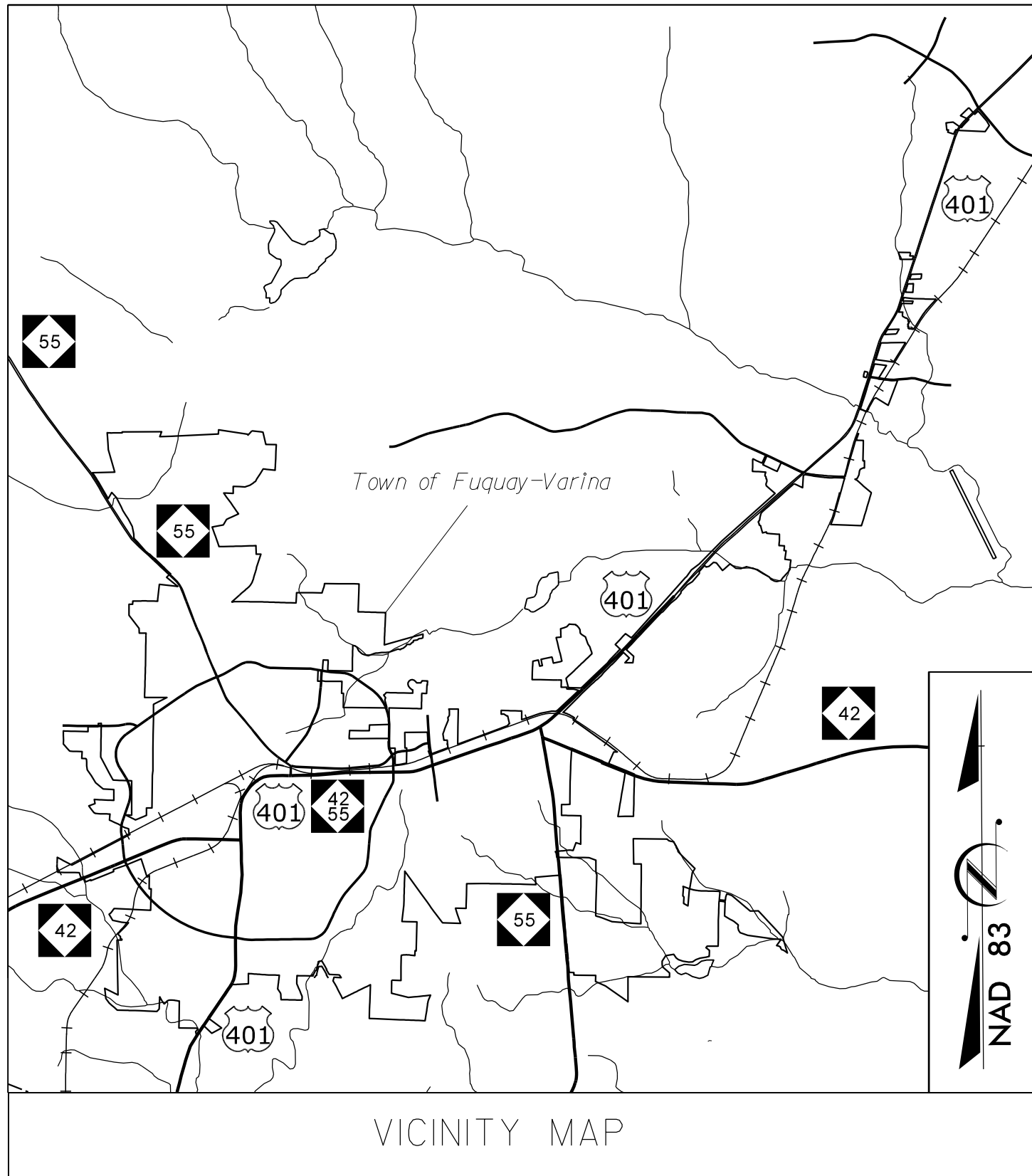
If archaeological resources (Native American artifacts and/or human remains) are encountered during project construction, work will cease in that area and the NCDOT Archaeology Group and the Catawba Indian Nation will be notified immediately. No storage of materials or equipment, tree removal, or extensive trimming of vegetation should occur within the boundaries of any significant historic architectural resources

COMMITMENTS FROM PERMITTING

No special commitments developed during permitting.

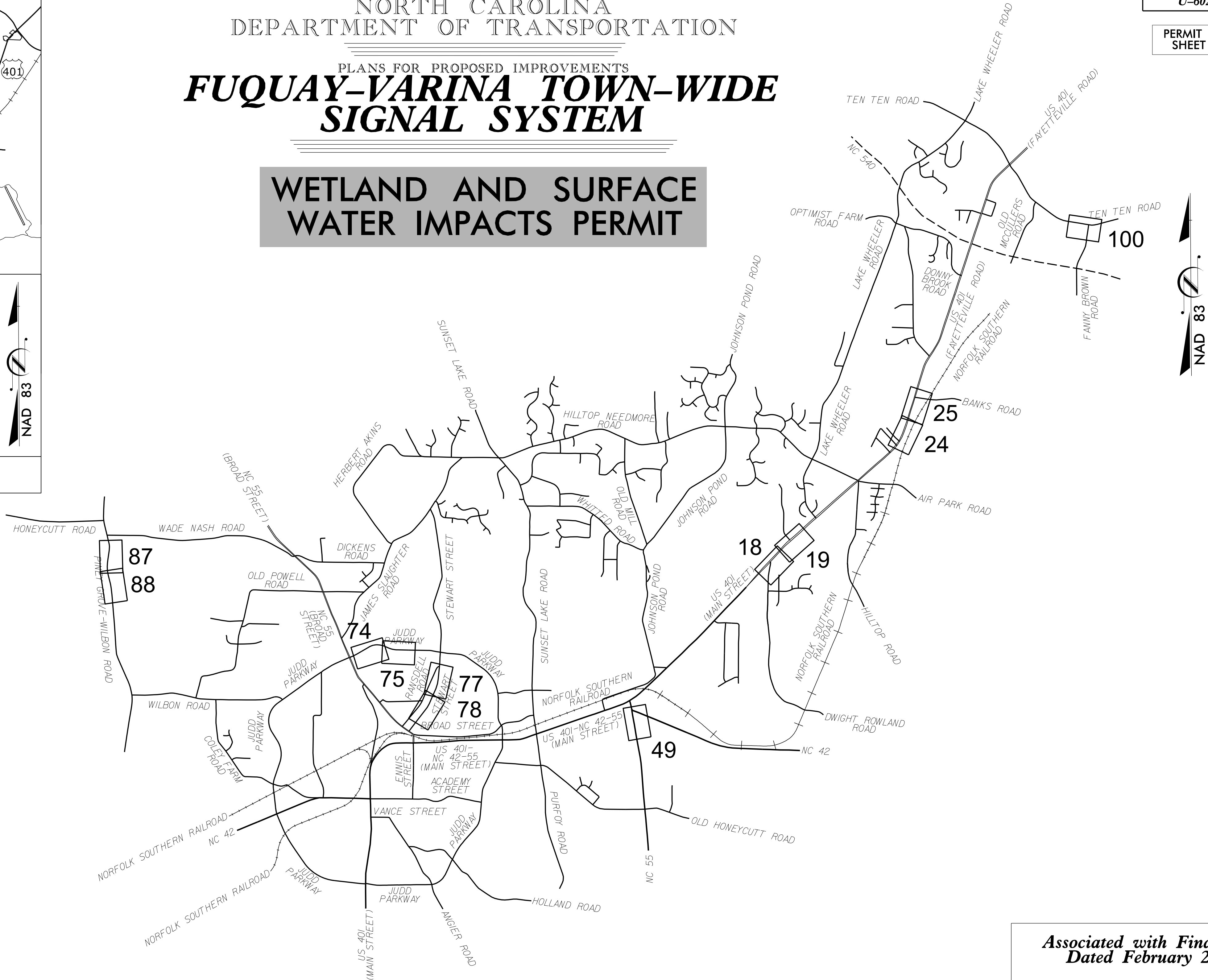
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STIF4685 AT LU5491089

CONTRACT: C204419 TIP PROJECT: U-6022



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED IMPROVEMENTS
**FUQUAY-VARINA TOWN-WIDE
SIGNAL SYSTEM**

**WETLAND AND SURFACE
WATER IMPACTS PERMIT**

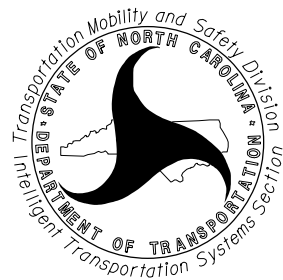


*Associated with Final Design
Dated February 2, 2023*

2018 STANDARD SPECIFICATIONS

LETTING DATE: MAY 10, 2023

PROJECT LENGTH = 24 MILES



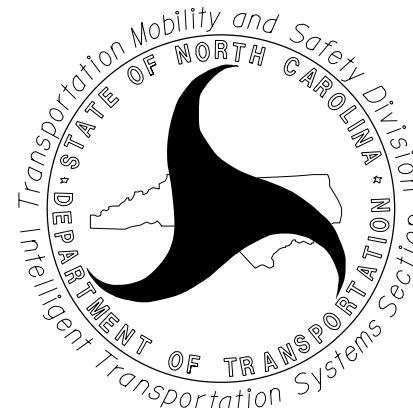
750 Greenfield Parkway, Garner, NC 27529

**TRANSPORTATION MOBILITY & SAFETY DIVISION
INTELLIGENT TRANSPORTATION SYSTEMS SECTION**
GREGORY A. GREEN - SIGNAL COMMUNICATIONS PROJECT ENGINEER
HEIDI T. BERGGREN - PROJECT DESIGN ENGINEER
DOUG SONDERFAN - DESIGN ENGINEER

ATKINS

1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

BRADFORD J. SLOCUM, PE - ATKINS PROJECT MANAGER
ANTHONY M. ENCARNACION, PE, PTOE - ATKINS PROJECT ENGINEER



MATCHLINE - SHEET UMR-17

MATCHLINE - SHEET UMR-19

US 401 (N. Main Street)

US 401 (N. Main Street)

SR 2753 (Dwight Rowland Road)

DUKE-RG337

DUKE-RG338

DUKE-5SY23

DUKE-D777BH

DUKE-D778BH

DUKE-D781BH

DUKE-83R30

NO DIRECT IMPACTS TO STREAMS OR WETLANDS

- EXISTING UTILITY POLE
- FO— AERIAL FIBER OPTIC CABLE
- EXI— EXISTING COMMUNICATIONS CABLE
- DD— DIRECTIONAL DRILLING
- REM— EXISTING CABLE TO BE REMOVED
- - - - - OPEN CUT TRENCH
- - - - - STREAM
- WETLAND
- F F FILL IN WETLAND
- T T TEMPORARY FILL IN WETLAND
- DISTURBANCE AREA
- PERMIT AREAS

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of:



750 Greenfield Parkway, Garner, NC 27529

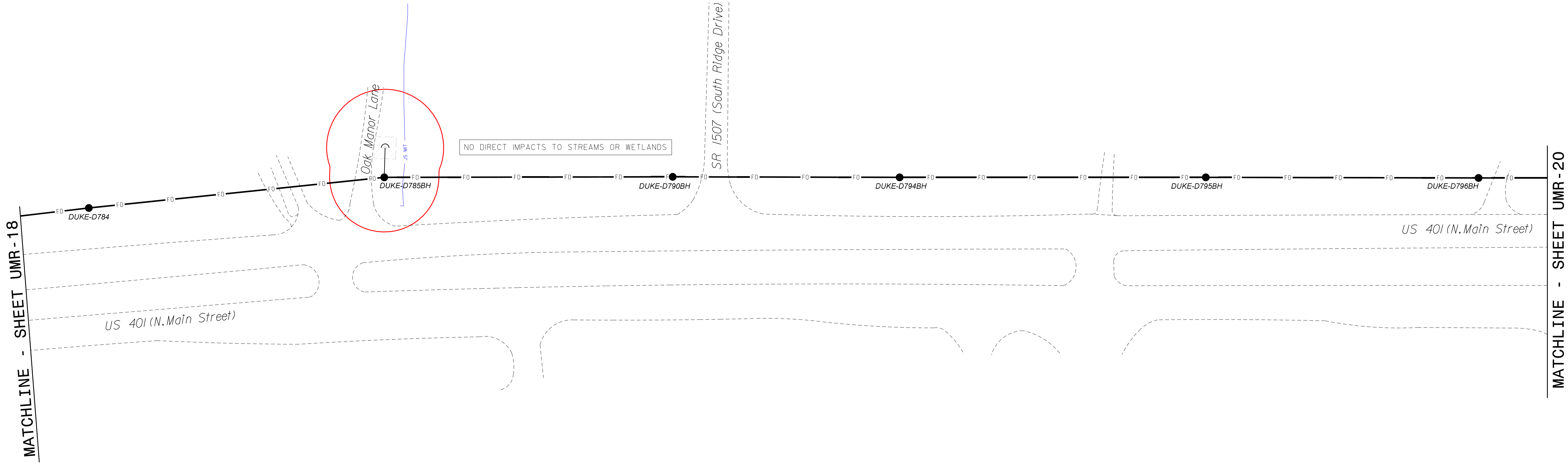
Fuquay-Varina Signal System Utility Make Ready Plans

Division 5	Wake County	Fuquay-Varina
PLAN DATE: January 2023	REVIEWED BY: AM Encarnacion	
PREPARED BY: JT Stiff	REVIEWED BY: MB Toth	
REVISIONS	INIT.	DATE



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1"=50'

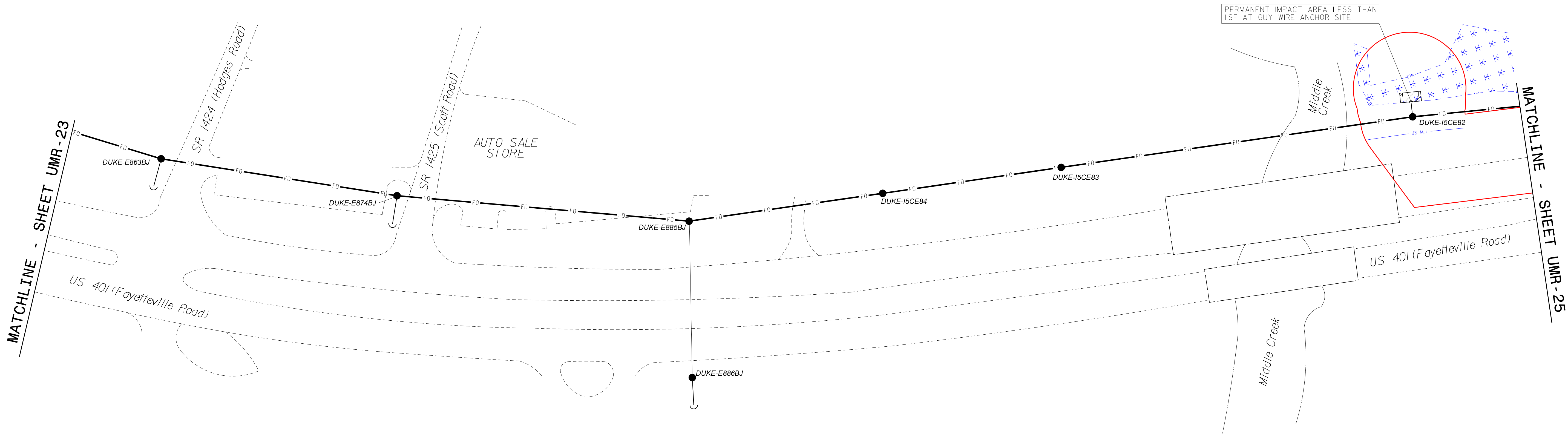
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- - - - - OPEN CUT TRENCH
- JS MIT — STREAM
- [Wetland Symbol] WETLAND
- [Fill Symbol] FILL IN WETLAND
- [Temp Fill Symbol] TEMPORARY FILL IN WETLAND
- [Disturbance Symbol] DISTURBANCE AREA
- [Red Outline] PERMIT AREAS

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
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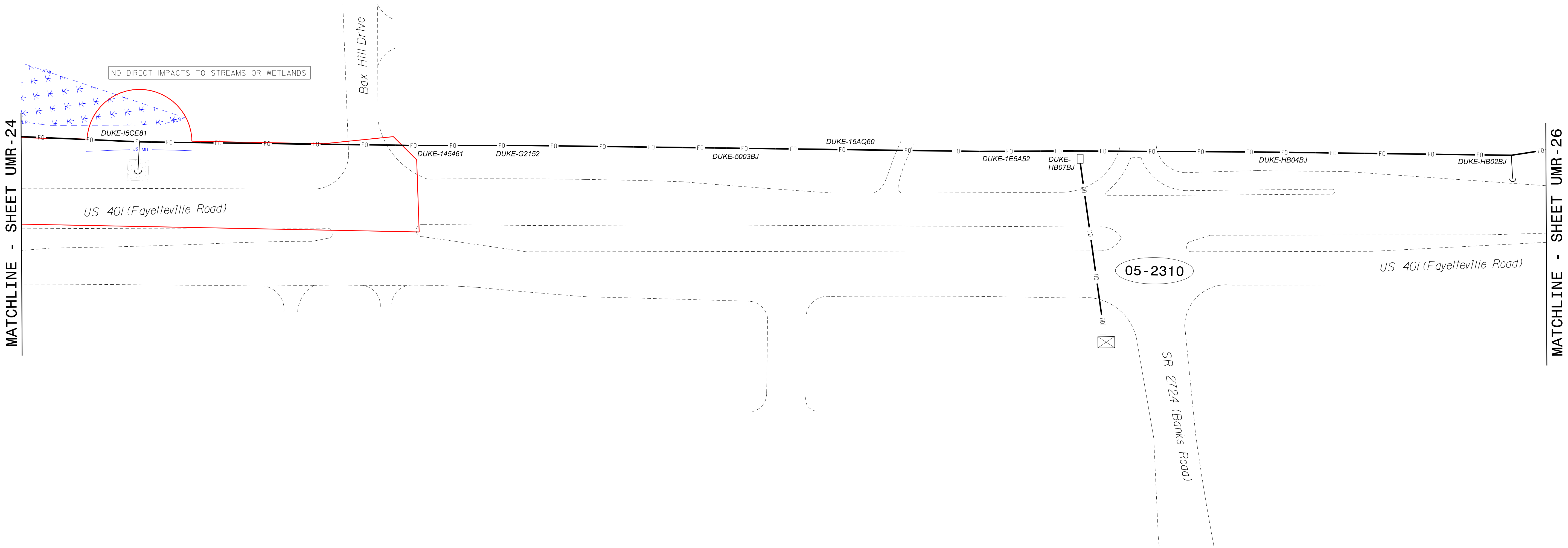
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- [Blue dashed box with star] WETLAND
- [Box with F/F] FILL IN WETLAND
- [Box with T/T] TEMPORARY FILL IN WETLAND
- [Stippled box] DISTURBANCE AREA
- [Red outline] PERMIT AREAS

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of: DEPARTMENT OF TRANSPORTATION AND SAFETY 750 Greenfield Parkway, Garner, NC 27529	Fuquay-Varina Signal System Utility Make Ready Plans			
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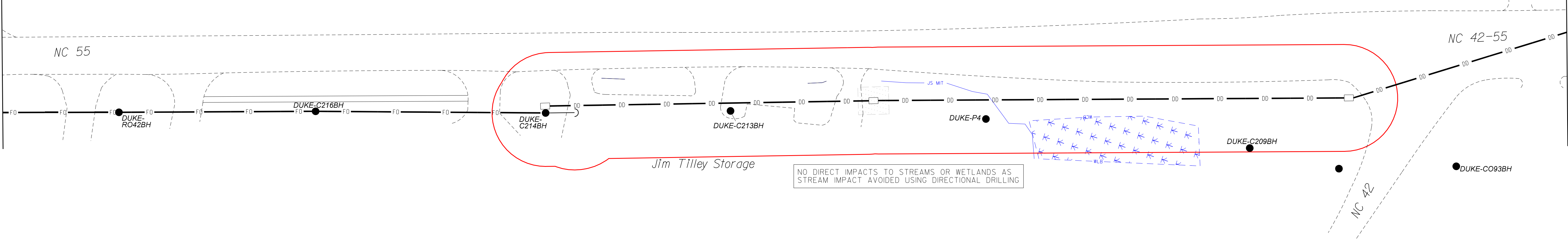
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 SCALE 0 50 1"=50'	REVISIONS	INIT.	DATE	

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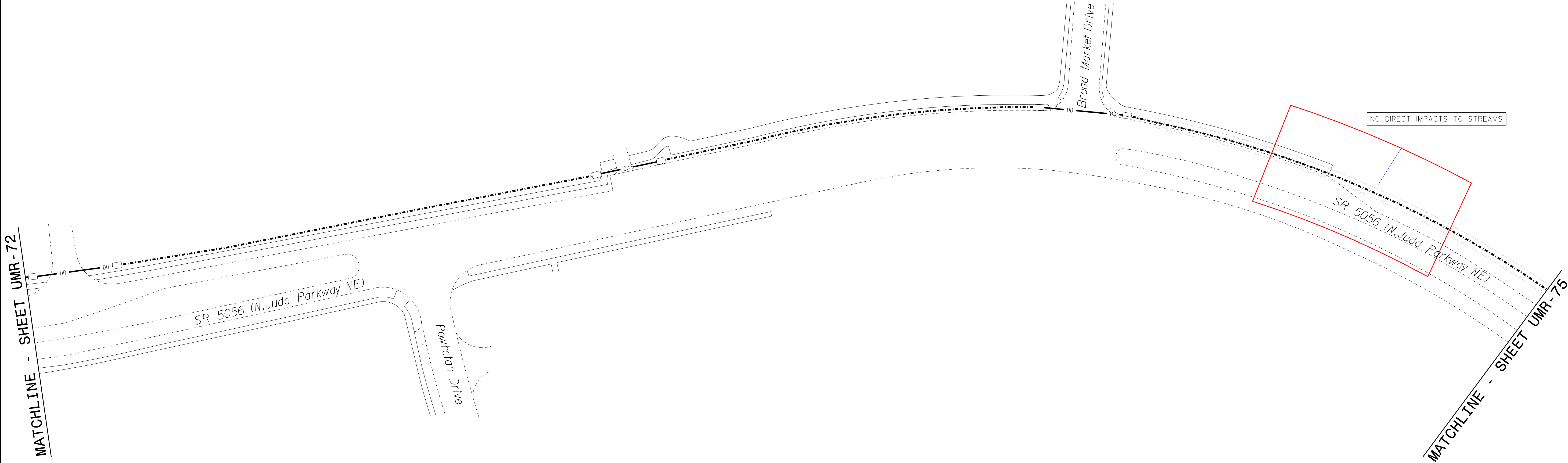
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- [Box with T/T] TEMPORARY FILL IN WETLAND
- [Dotted box] DISTURBANCE AREA
- [Red outline box] PERMIT AREAS

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
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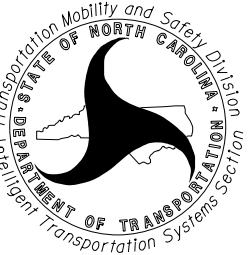
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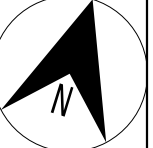
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750 Greenfield Parkway, Garner, NC 27529



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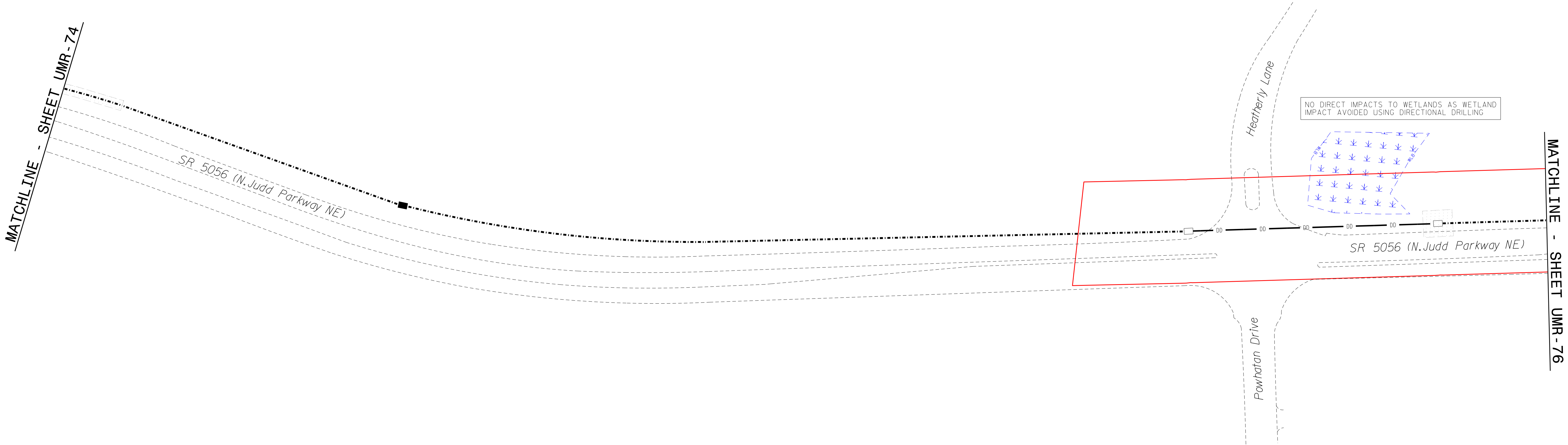
**Fuquay-Varina Signal System
Utility Make Ready Plans**

Division 5	Wake County	Fuquay-Varina
PLAN DATE: January 2023	REVIEWED BY: AM Encarnacion	
PREPARED BY: JT Stiff	REVIEWED BY: MB Toth	
REVISIONS	INIT.	DATE

CADD Filename: \$FILENAME\$

PROJECT REFERENCE NO.	SHEET NO.
U-6022	UMR-75

PERMIT DRAWING
SHEET 8 OF 13



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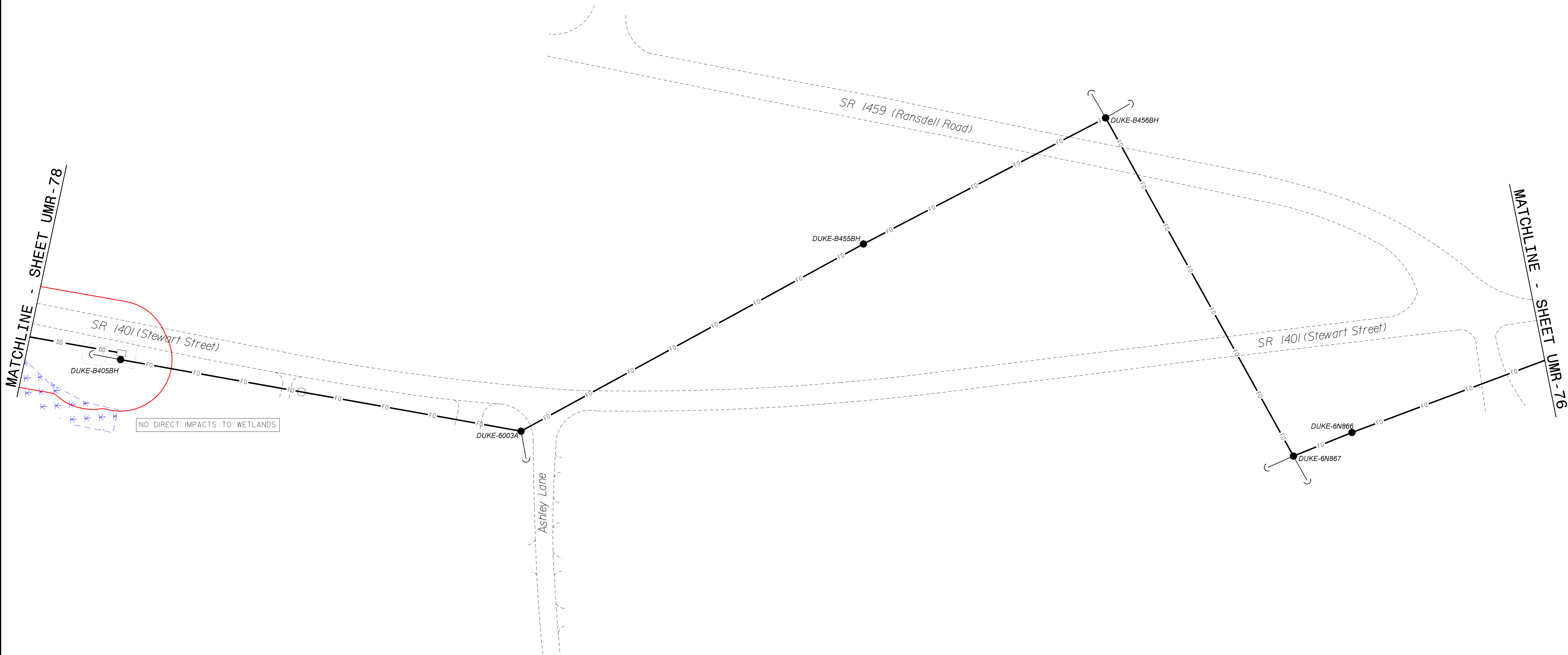


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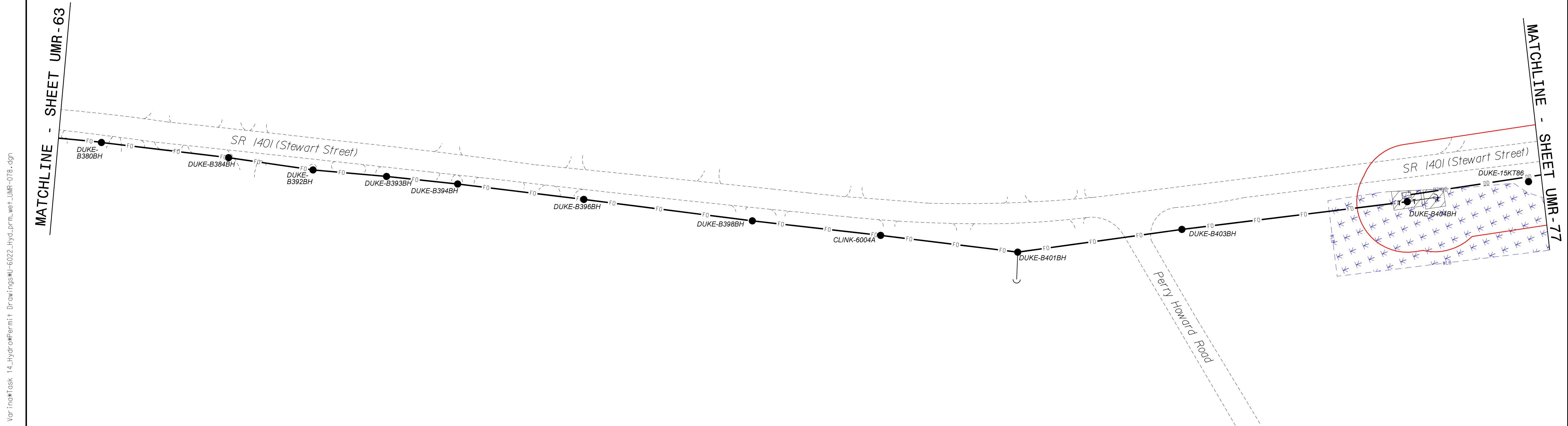
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 750 Greenfield Parkway, Garner, NC 27529	Fuquay-Varina Signal System Utility Make Ready Plans			
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ATKINS

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DEPARTMENT OF TRANSPORTATION AND SAFETY
STATE OF NORTH CAROLINA

750 Greenfield Parkway, Garner, NC 27529

Fuquay-Varina Signal System
Utility Make Ready Plans

Division 5 Wake County Fuquay-Varina

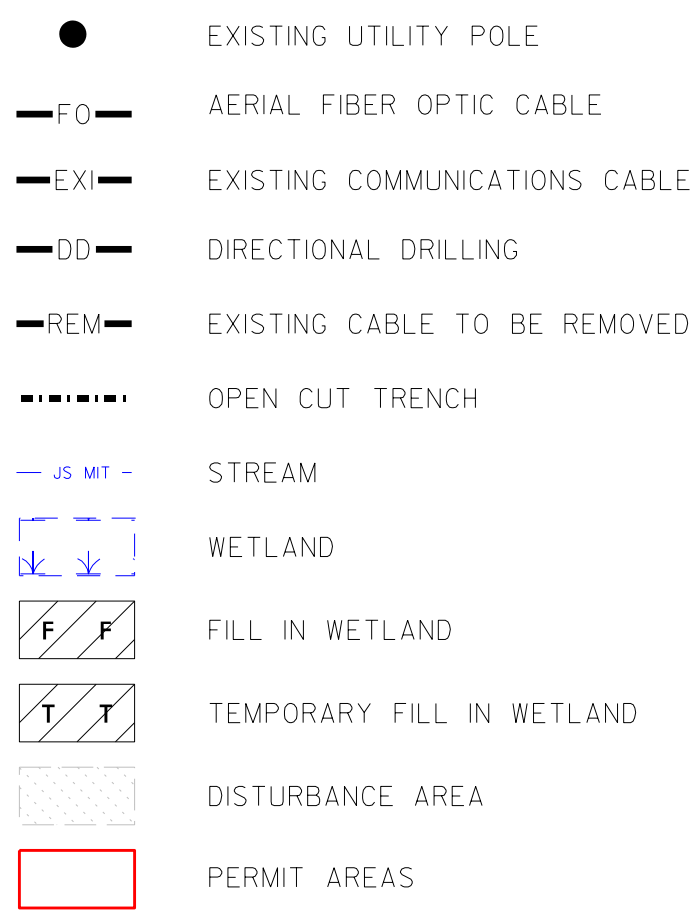
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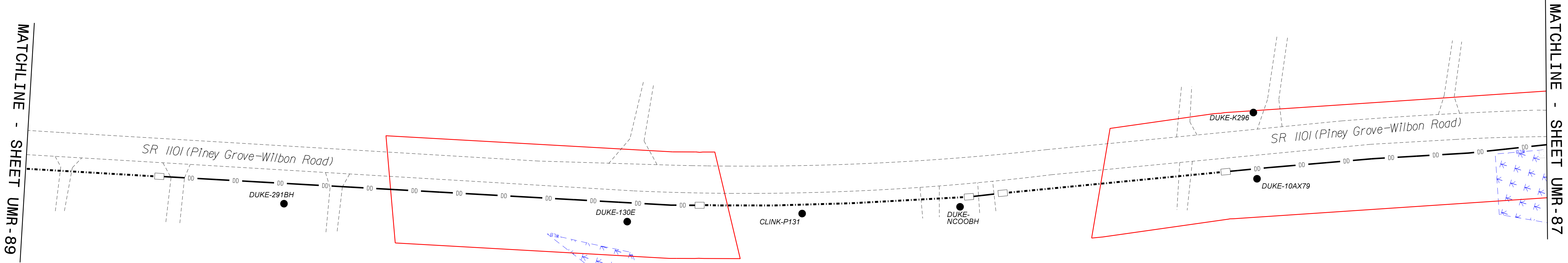
REVISIONS INIT. DATE

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PERMIT DRAWING
SHEET 11 OF 13

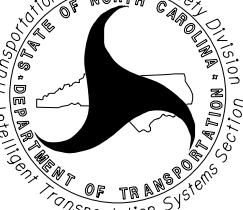
Prepared for the Offices of:  DEPARTMENT OF TRANSPORTATION TRANSPORTATION SYSTEMS SECTION 750 Greenfield Parkway, Garner, NC 27529  SCALE 0 50 1" = 50'	Fuquay-Varina Signal System Utility Make Ready Plans <table style="width: 100%; margin-top: 20px;"> <tr> <td style="width: 33%;">Division 5</td> <td style="width: 33%;">Wake County</td> <td style="width: 33%;">Fuquay-Varina</td> </tr> <tr> <td>PLAN DATE: January 2023</td> <td colspan="2">REVIEWED BY: AM Encarnacion</td> </tr> <tr> <td>PREPARED BY: JT Stiff</td> <td colspan="2">REVIEWED BY: MB Toth</td> </tr> <tr> <td style="text-align: center;">REVISONS</td> <td style="text-align: center;">INIT.</td> <td style="text-align: center;">DATE</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> CADD Filename: \$FILENAME\$.	Division 5	Wake County	Fuquay-Varina	PLAN DATE: January 2023	REVIEWED BY: AM Encarnacion		PREPARED BY: JT Stiff	REVIEWED BY: MB Toth		REVISONS	INIT.	DATE																											
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RALEIGH, NORTH CAROLINA 27609
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Prepared for the Offices of:

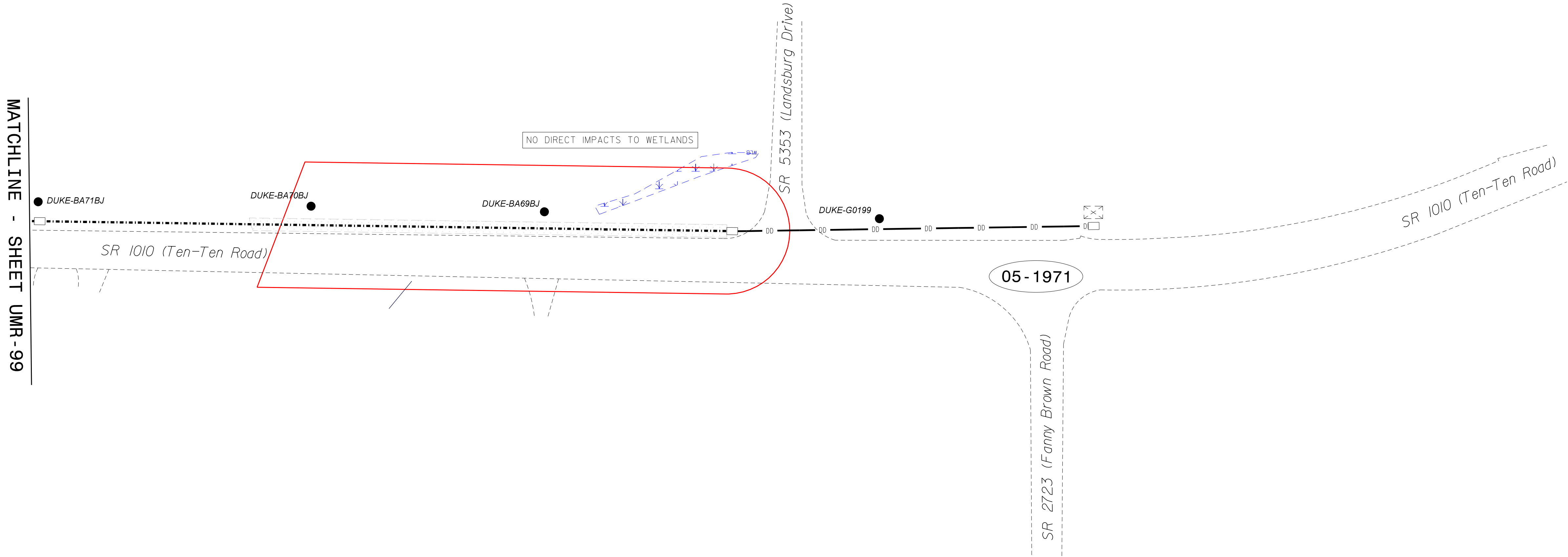


750 Greenfield Parkway, Garner, NC 27529

**Fuquay-Varina Signal System
Utility Make Ready Plans**

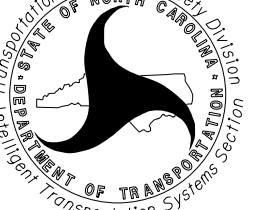
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WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Impact 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)
2	UMR-24	New Anchor Guy	<0.01	<0.01								
3	UMR-78	New Anchor Guy, Junction Box & Directional Bore Pits	<0.01	0.02								
4	UMR-87	Junction Box & Directional Bore Pits		<0.01								
TOTALS*:			<0.01	0.03	0.00	0.00	0.00	0.00	0.00	0	0	0

*Rounded totals are sum of actual impacts
 NOTES:

ALL GROUND CLEARING AND TRENCHING ACTIVITIES TO BE GREATER THAN 10 FEET FROM ANY STREAM CHANNEL

MATCHLINE - SHEET UMR-17

MATCHLINE - SHEET UMR-19

US 401 (N. Main Street)

US 401 (N. Main Street)

SR 2753 (Dwight Rowland Road)

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DUKE-RG338

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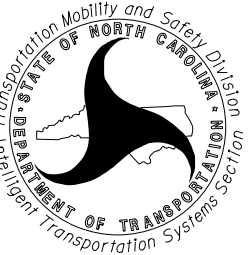
DUKE-D781BH

DUKE-83R30

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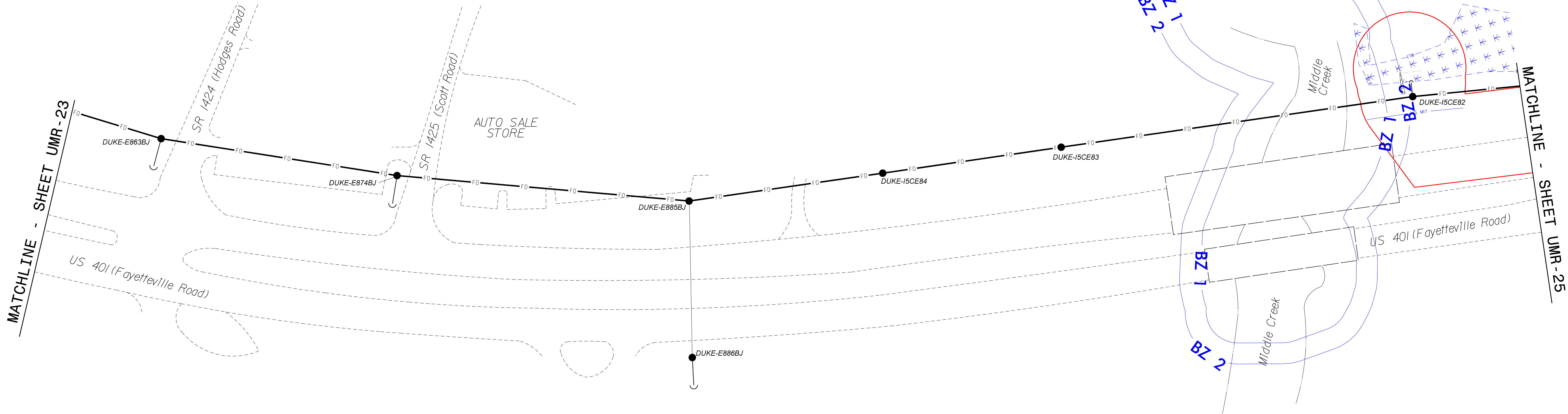
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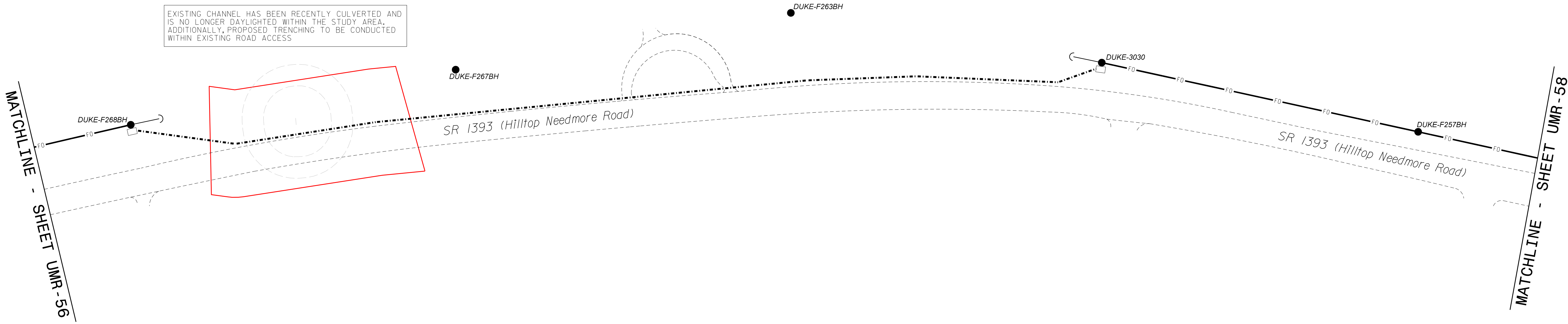
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- EXISTING UTILITY POLE
- FO— AERIAL FIBER OPTIC CABLE
- EXI— EXISTING COMMUNICATIONS CABLE
- DD— DIRECTIONAL DRILLING
- REM— EXISTING CABLE TO BE REMOVED
- OPEN CUT TRENCH
- JS MIT — STREAM
- WETLAND
- DISTURBANCE AREA
- IMPACTS ZONE 2
- IMPACTS ZONE 2
- PERMIT AREAS

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

Prepared for the Offices of: 750 Greenfield Parkway, Garner, NC 27529	Fuquay-Varina Signal System Utility Make Ready Plans			
	Division 5	Wake County	Fuquay-Varina	
	PLAN DATE: January 2023	REVIEWED BY: AM Encarnacion		
	PREPARED BY: JT Stiff	REVIEWED BY: MB Toth		
REVISIONS		INIT.	DATE	
CADD Filename: \$FILENAME\$				



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- FO— AERIAL FIBER OPTIC CABLE
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SCALE 0 50 1"=50'	REVISIONS	INIT.	DATE	

RIPARIAN BUFFER IMPACTS SUMMARY												
		IMPACTS									BUFFER REPLACEMENT	
Sheet No.	Structure Size / Type	TYPE			ALLOWABLE			ALLOWABLE WITH AUTHORIZATION				
		Directional Drill/Bore	Aerial	Open Trench	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
UMR-18	Anchor Guy		X			386	386	6		6		
UMR-18	Fiber Optic Cable	X					0	50		50		
UMR-18	Fiber Optic Cable			X		203	203	178		178		
UMR-24	Anchor Guy		X			42	42			0		
TOTALS*:					0	631	631	234	0	234	0	0

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
02/02/2023
WAKE
U-6022

SHEET 1 OF 1