

09/08/19

TIP PROJECT: I-3819BU-6039

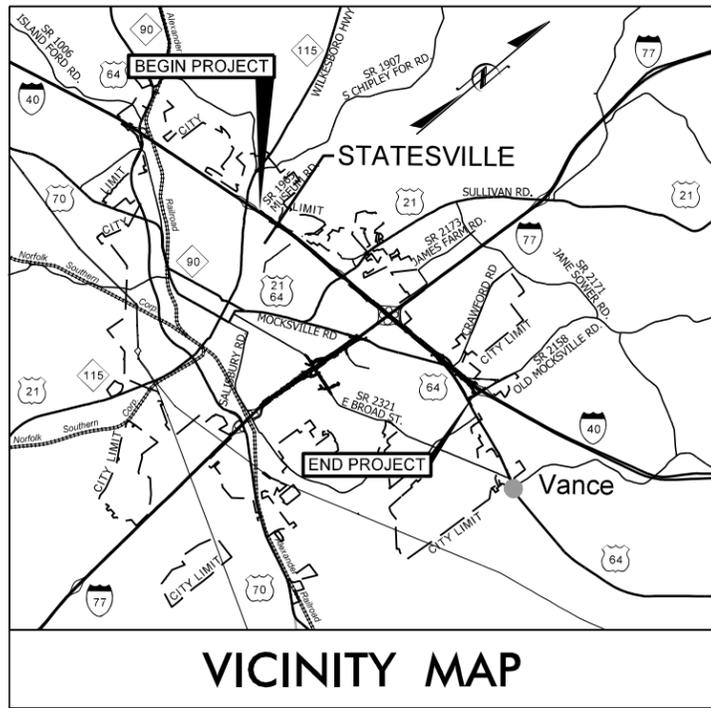
PROJECT: 34192.1.2

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

IREDELL COUNTY

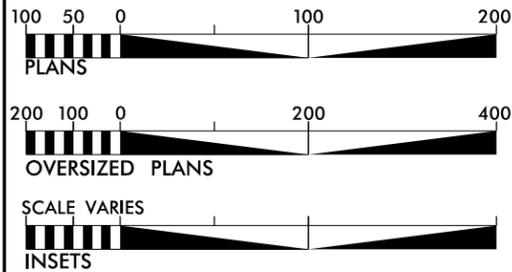
LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 FROM WEST OF SR 2003 (RADIO RD.) TO SR 2158 (OLD MOCKSVILLE RD.) & I-77 FROM SOUTH OF SR 2321 (EAST BROAD ST.) TO SOUTH OF SR 2171 (JANE SOWERS RD.)  
TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, RETAINING WALLS, NOISE WALLS, AND TRAFFIC CONTROL

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-3819BU-6039	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34192.1.2	IMS-40-2(124)	P.E.	
34192.3.2	N/A	DESIGN BUILD	



VICINITY MAP

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF STATESVILLE AND THE TOWNSHIP OF BETHANY



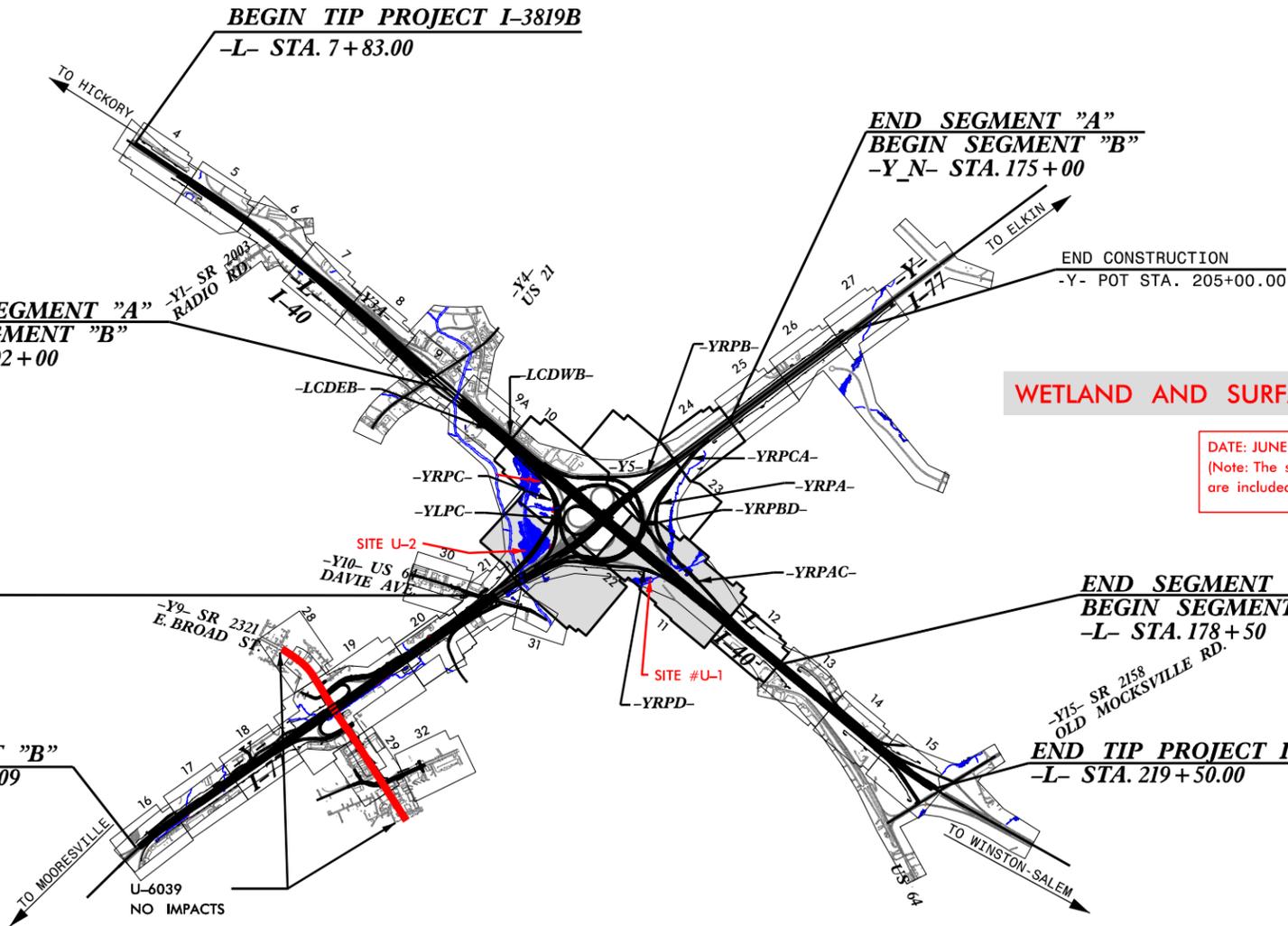
BEGIN SEGMENT "A"  
END SEGMENT "B"  
-L- STA. 92+00

BEGIN SEGMENT "A"  
END SEGMENT "B"  
-Y\_S- STA. 111+00

BEGIN SEGMENT "B"  
-Y\_S- STA. 25+00.09

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES



WETLAND AND SURFACE WATER IMPACT PERMITS

DATE: JUNE 5, 2019  
(Note: The sites highlighted in RED are included in this submittal.)

UTILITY PERMIT  
DRAWING  
SHEET 1 OF 8

LANE

INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION

GRAPHIC SCALES

SEE ABOVE

DESIGN DATA

	I-40	I-77
ADT 2018	= 57,300	62,900
ADT 2040	= 72,500	77,500
DHV	= 5,800	6,200
D	= 55 %	55 %
T	= 16 % *	19 % **
V	= 60 MPH	60 MPH
* TTST 13 + DUAL 3 (I-40)		
** TTST 16 + DUAL 3 (I-77)		
CLASSIFICATION: INTERSTATE		

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT I-3819B	=	3.885
LENGTH STRUCTURES TIP PROJECT I-3819B	=	0.124
TOTAL LENGTH OF TIP PROJECT I-3819B	=	4.009

Prepared in the Office of:

WSP

1001 Morehead Square Dr., Suite 610, Charlotte, NC 28203  
NC LIC NO. F-0165

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
OCTOBER 30, 2018

LETTING DATE:  
OCTOBER 30, 2018

CHRISTOPHER D. DAVIS, P.E.  
PROJECT ENGINEER

ERIC W. SECKINGER, P.E.  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN  
ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER P.E.

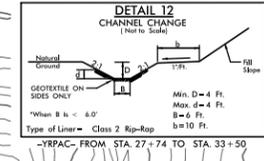
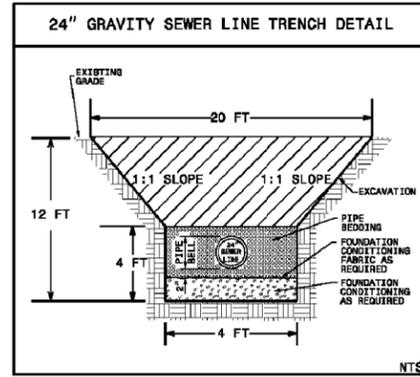
c:\projectwise\pb\projectwise\int\wsp--morgan\_goodwin\d0350035\13819\_nyd\_prm\_TSH\_Utflity.dgn  
USM6675774  
6/4/2019



6/2/23

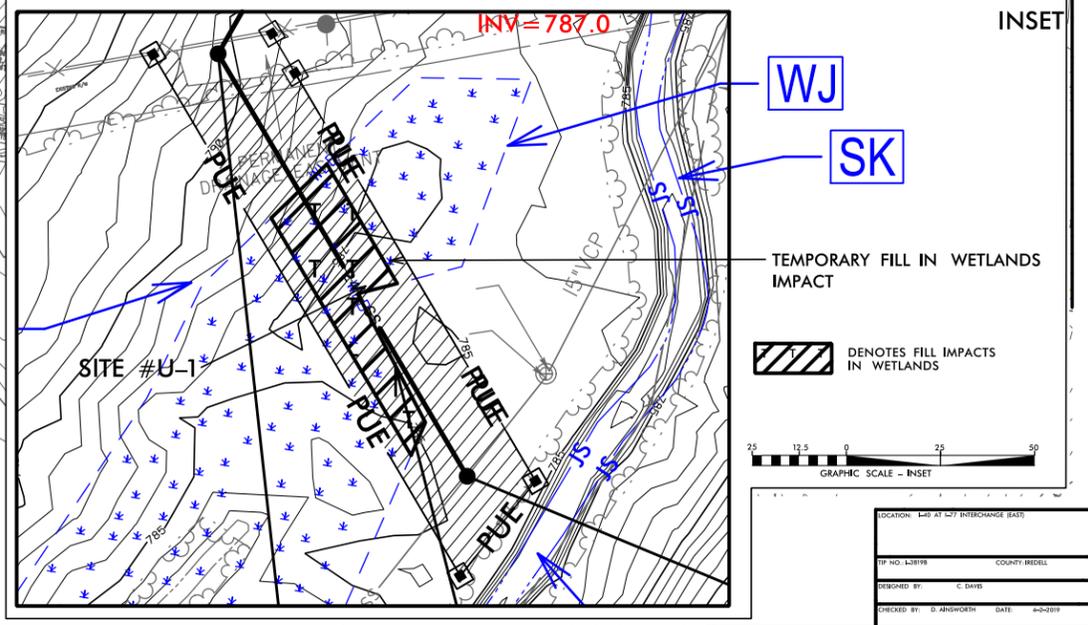
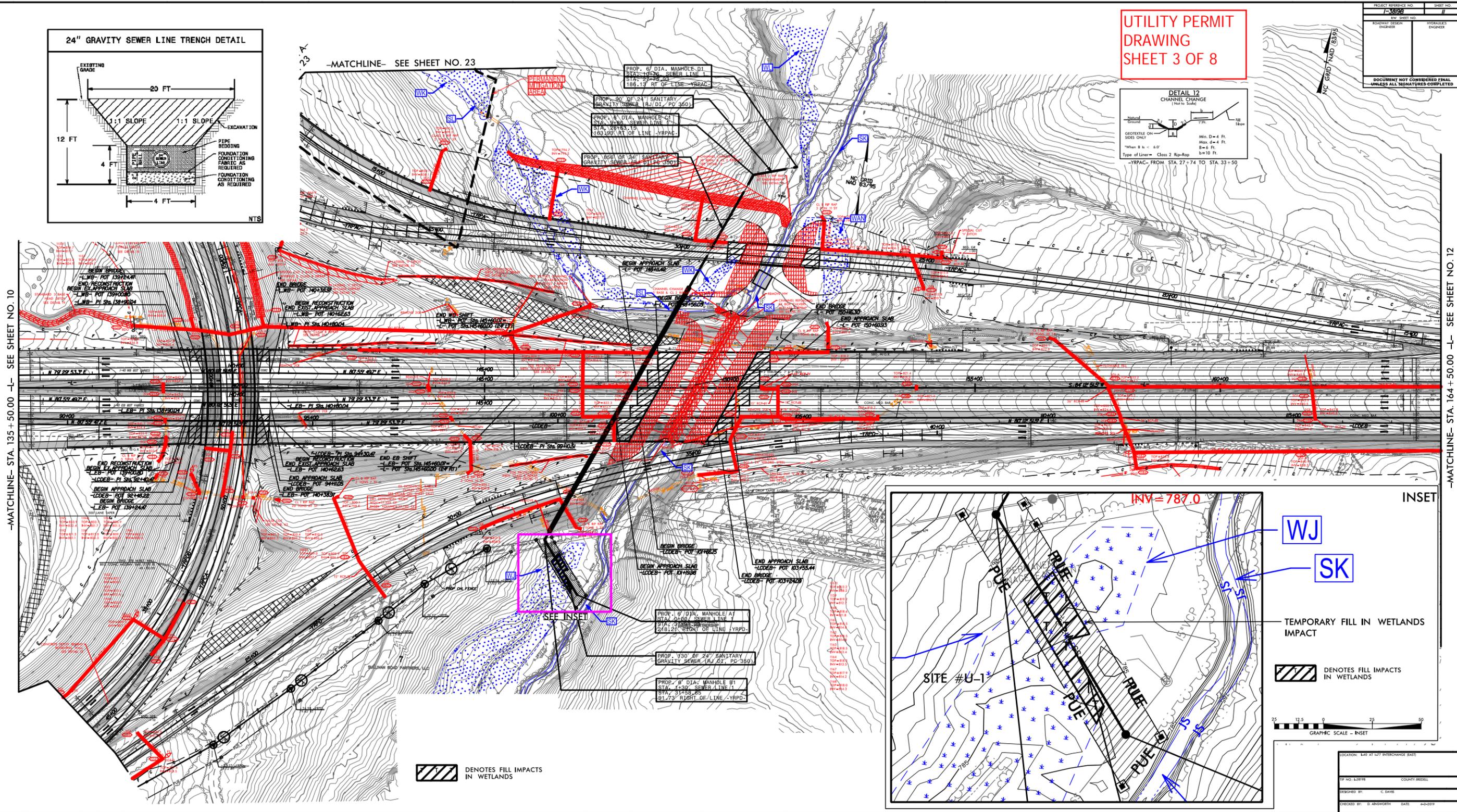
PROJECT REFERENCE NO.	SHEET NO.
7-18789	11
ROWWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**UTILITY PERMIT  
DRAWING  
SHEET 3 OF 8**



-MATCHLINE- SEE SHEET NO. 23

-MATCHLINE- STA. 135+50.00 -L- SEE SHEET NO. 10

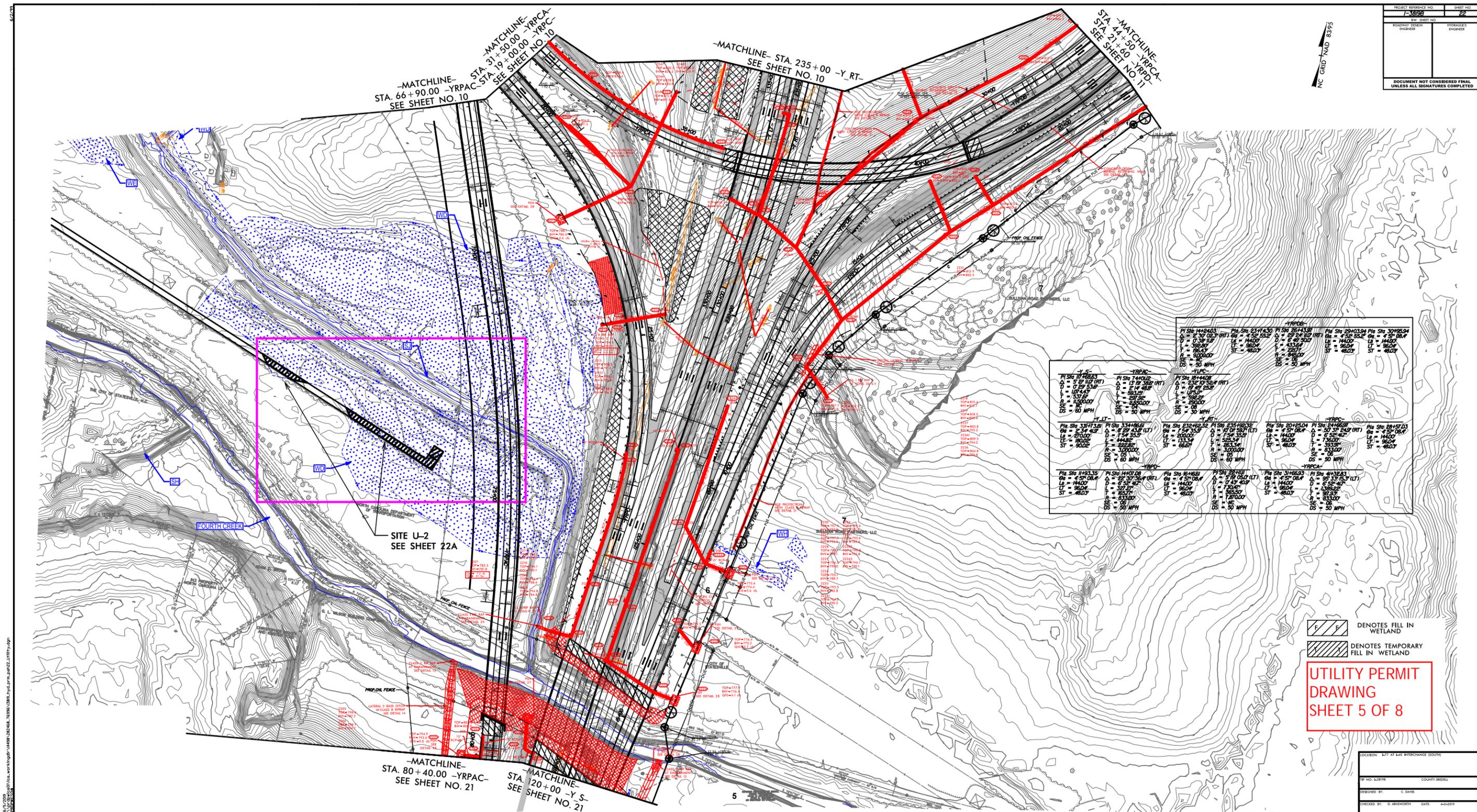


-MATCHLINE- STA. 164+50.00 -L- SEE SHEET NO. 12

6/2/23  
C:\projects\7-18789\11\11.dwg, 7/18/23, 11:00 AM, J. DAVIS

LOCATION: I-85 AT I-77 INTERCHANGE EAST	
PROJECT NO.: 7-18789	COUNTY: DEBIL
DESIGNED BY: C. DAVIS	
CHECKED BY: D. ANSWORTH	DATE: 6/2/23





Y-RPAC		Y-RPC		Y-RPC		Y-RPC	
PI Sta 14+84.03	PI Sta 23+74.30	PI Sta 26+43.8	PI Sta 26+03.94	PI Sta 30+95.94	PI Sta 11+85.63	PI Sta 13+41.6	PI Sta 13+41.6
Δ = 4° 52' 55.2"							
L = 308.99'							
T = 384.3'							
R = 3000.00'							
SE = 18°							
DS = 50 MPH							

DENOTES FILL IN WETLAND  
 DENOTES TEMPORARY FILL IN WETLAND

**UTILITY PERMIT  
DRAWING  
SHEET 5 OF 8**

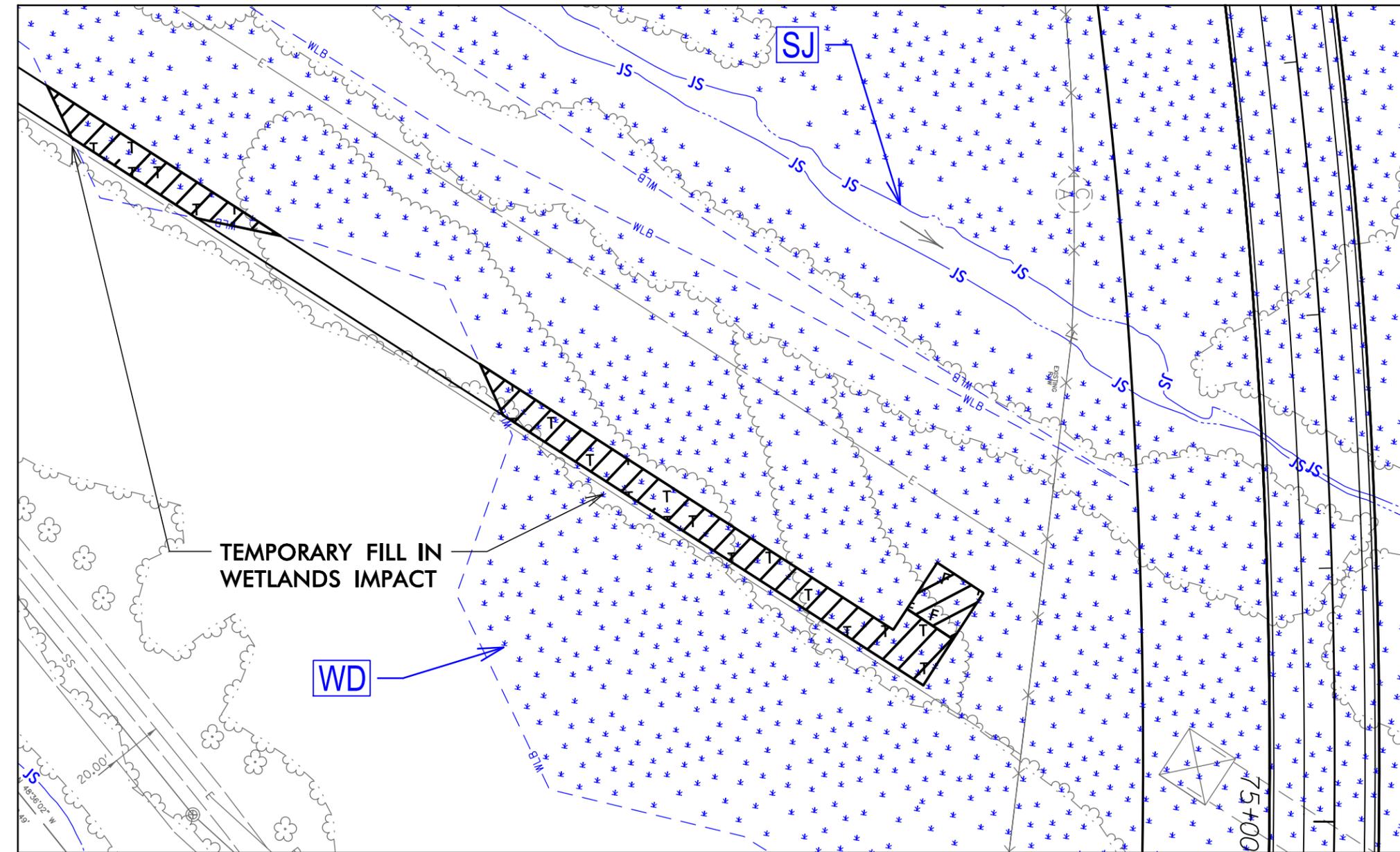
6/2/2017 10:58:00 AM C:\projects\13195\13195.dwg 7/18/17 10:58:00 AM C:\projects\13195\13195.dwg

PROJECT REFERENCE NO. 1-3819B	SHEET NO. 22A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

**SITE U-2 INSET**



NC GRID NAD 8395



DENOTES FILL IN WETLAND



DENOTES TEMPORARY FILL IN WETLAND

**UTILITY PERMIT**  
**DRAWING**  
**SHEET 6 OF 8**



GRAPHIC SCALE - INSETS

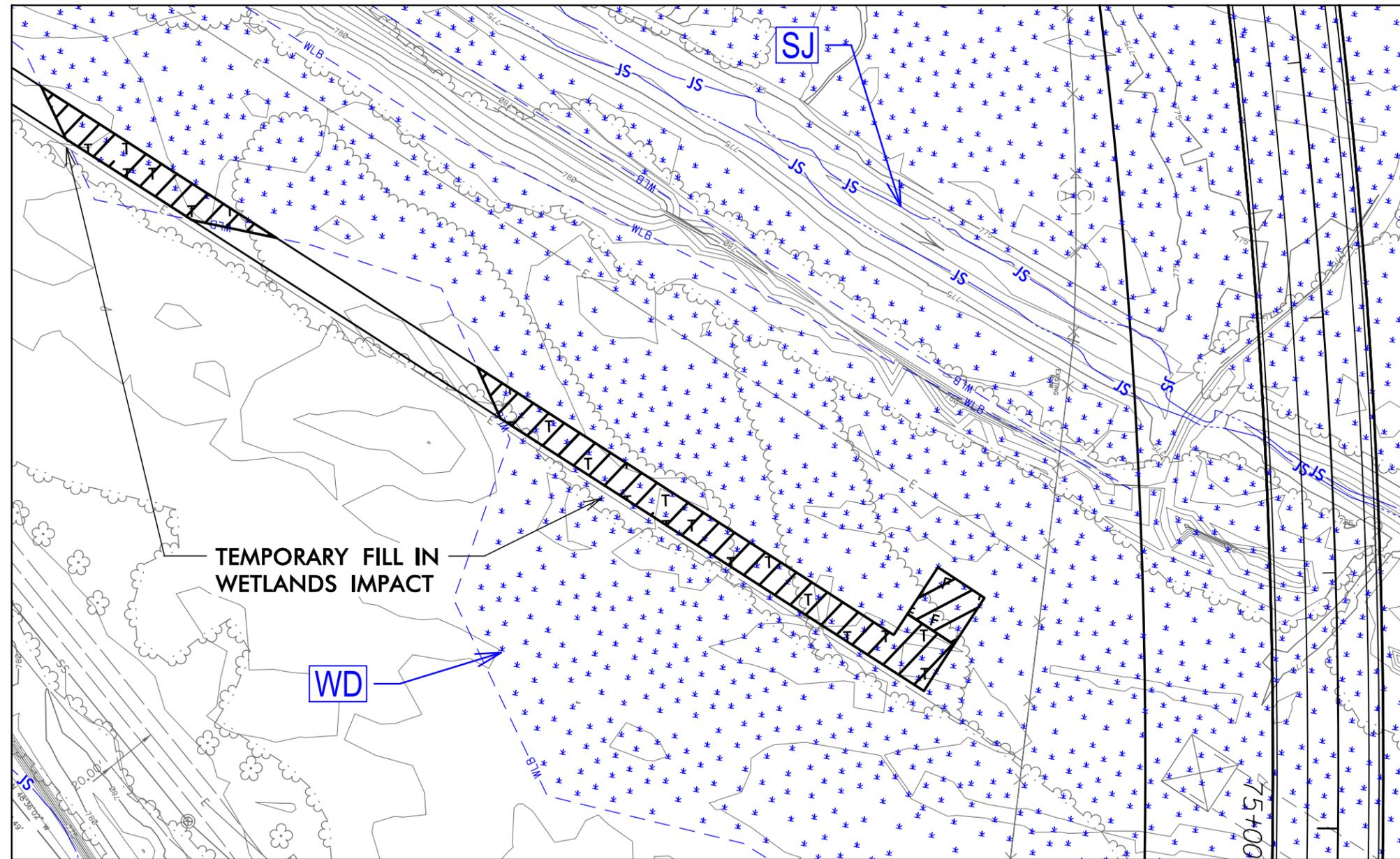
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 PRDP\WCS01\$

PROJECT REFERENCE NO. 1-3819B	SHEET NO. 22A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

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

**SITE U-2 INSET**



**TEMPORARY FILL IN WETLANDS IMPACT**

**WD**

**SJ**

NC GRID NAD 8395



DENOTES FILL IN WETLAND



DENOTES TEMPORARY FILL IN WETLAND

**UTILITY PERMIT  
DRAWING  
SHEET 7 OF 8**



GRAPHIC SCALE - INSETS

\\pdp\cs01\cs-work\mgdir\14498\282468\_77001\3819\_hyd\_perm\_psh22A\_Utility.dgn  
 PDP\WCS01\$

### 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)
U-1	31+50-YRPD-	Utility		0.02								
U-2	75+00-YRPAC-	Utility	0.01	0.08								
<b>TOTALS*:</b>			0.01	0.10	0.00	0.00	0.00	0.00	0.00	0	0	0

\*Rounded totals are sum of actual impacts for entire project area

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 06/05/2019  
 IREDELL  
 TIP NO. I-3819B  
 WBS NO.