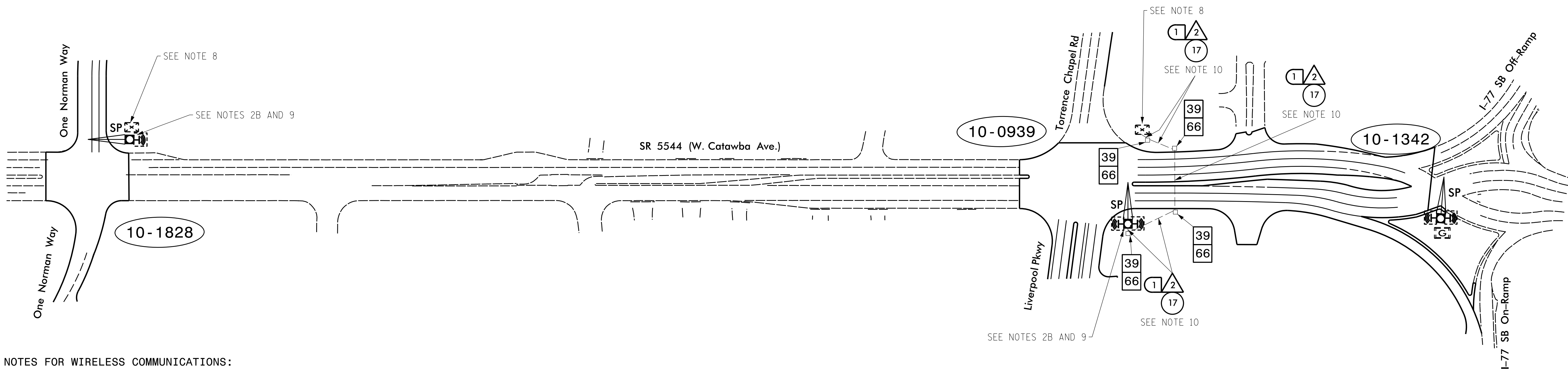




NOTES FOR WIRELESS COMMUNICATIONS:

1. FIVE (5) DAYS PRIOR TO BEGINNING WORK ON THE SIGNAL SYSTEM, CONTACT THE DIVISION 10 DEPUTY DIVISION TRAFFIC ENGINEER, AT (704) 983-4400. NOTIFY THE ENGINEER AFTER ALL WORK IS PERFORMED TO ENSURE THAT ALL WIRELESS CIRCUITS ARE FUNCTIONING PROPERLY. WORK IS NOT COMPLETE UNTIL THE SIGNAL SYSTEM IS BACK UP AND OPERATIONAL.
2. INSTALL ETHERNET CABLE:
 - A. ON WOOD POLES REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD
 - B. ON METAL POLES WITH MAST ARMS, RUN ETHERNET CABLE UP THROUGH THE POLE AND OUT THE MAST ARM;
FIELD DRILL A 1/2" HOLE UP THROUGH THE BOTTOM OF MAST ARM FOR INSTALLATION OF THE ETHERNET CABLE TO THE ANTENNA.
 - C. ON METAL STRAIN POLES, RUN ETHERNET CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD
AND ROUTE THE ETHERNET CABLE TO THE ANTENNA.
 - D. BETWEEN THE POINT OF EXITING THE RISER, METAL POLE OR MAST ARM AND THE ANTENNA, SECURE THE ETHERNET CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
3. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE ETHERNET CABLE IN THE SPARE RISER WITH 2" WEATHERHEAD.
4. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
(NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
5. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
6. INSTALL WIRELESS RADIO MODEM WITH EXTERIOR DISCONNECT SWITCH LOCATED ON CABINET.
(NOTE: RF ANTENNA DISCONNECT SWITCH AND DECAL ARE NOT REQUIRED WHEN THE ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
7. REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."
8. REUSE AND INSTALL ETHERNET EDGE SWITCHES, BROADBAND RADIOS, ANTENNAS, CABLES, AND ALL OTHER WIRELESS EQUIPMENT FROM EXISTING TRAFFIC SIGNALS.
9. RELOCATE AND REATTACH ANTENNA ON THE VERTICAL SHAFT MEMBER AT THE PREVIOUS ATTACHMENT HEIGHT. FIELD ADJUST AS NECESSARY TO ENSURE FULLY FUNCTIONING COMMUNICATIONS.
10. INSTALL NEW STANDARD SIZE JUNCTION BOXES WITH EXISTING SPARE CONDUIT RUNNING THROUGH NEW JUNCTION BOXES. INSTALL ETHERNET CABLE IN NEW JUNCTION BOXES AND EXISTING CONDUIT.
11. AFTER REINSTALLING THE EXISTING RADIO EQUIPMENT, ENSURE COMMUNICATIONS WITH SYSTEM D10-18 CORNELIUS.

Prepared for the Office of:



750 N. Greenfield Pkwy., Garner, NC 27529



SCALE

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NTS

D10-18 Cornelius
Wireless Communications Plans

Division 10 Mecklenburg County Cornelius

PLAN DATE: July 2025

REVIEWED BY: S.G. Hayni

PREPARED BY: A.M. Kolla

REVIEWED BY: _____

REVISIONS

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Steve Haworth

SIGNATURE

Filename: U - 5

RS&H
NC FIRM LICENSE No: F-0493
1520 SOUTH BOULEVARD, SUITE 200
CHARLOTTE, NC 28203
(704) 752-0610