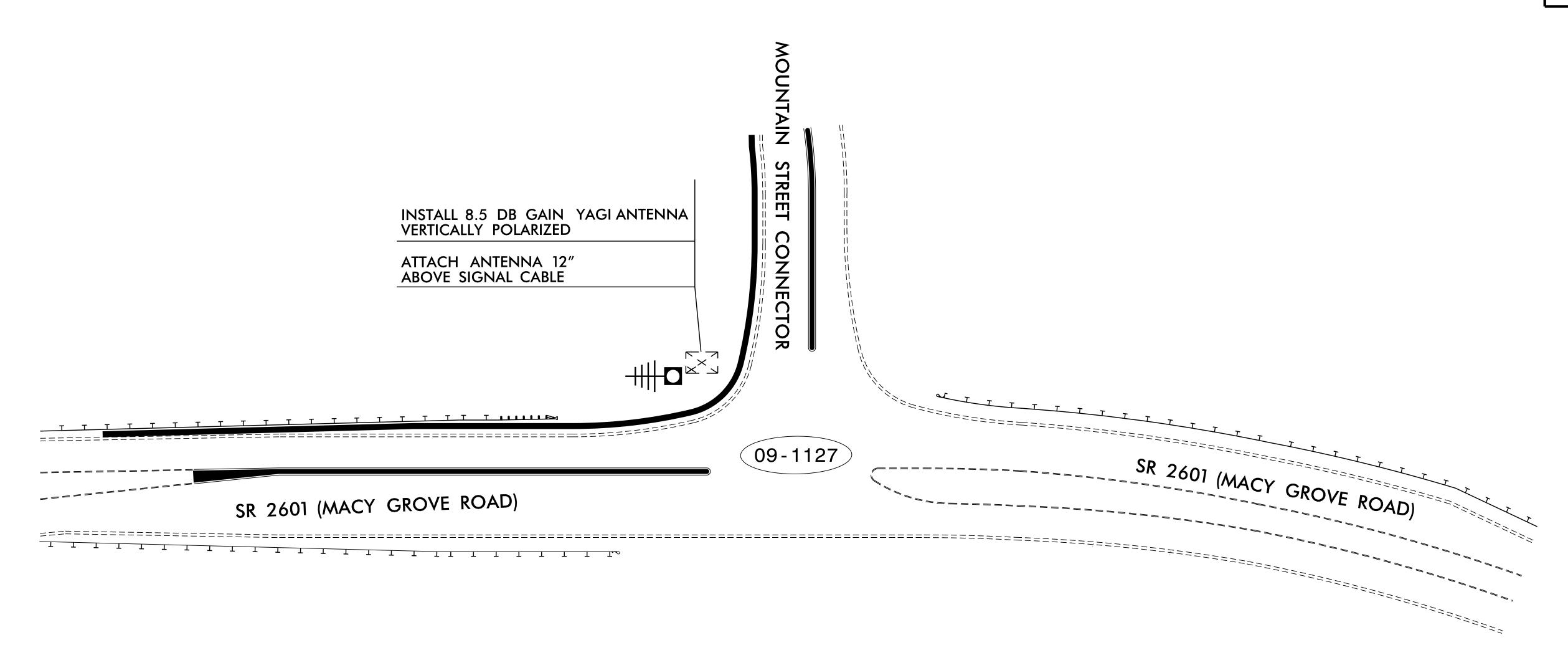
PROJECT REFERENCE NO. U-4734



1) REPLACE EXISTING 900MHZ SERIAL RADIO SYSTEM SOUTH OF 09-1127 WITH NEW 900MHZ SERIAL/ETHERNET RADIOS AS DETAILED BELOW. RETURN THE EXISTING 900MHZ SERIAL RADIOS TO THE DIVISION.

09-1127 - INSTALL NEW 900MHZ SERIAL/ETHERNET RADIO IN SERIAL CONFIGURATION. 09-1120 - INSTALL NEW 900MHZ SERIAL/ETHERNET RADIO IN SERIAL CONFIGURATION. 09-1119 - INSTALL NEW 900MHZ SERIAL/ETHERNET RADIO IN SERIAL CONFIGURATION.

09-1118 - INSTALL NEW 900MHZ SERIAL/ETHERNET RADIO IN SERIAL CONFIGURATION - MASTER RADIO.

09-1117 - INSTALL NEW 900MHZ SERIAL/ETHERNET RADIO IN SERIAL CONFIGURATION.

NOTES FOR WIRELESS COMMUNICATIONS: 1. INSTALL COAXIAL CABLE:

- A. ON WOOD POLES, REQUIRING A NEW RIGID GALVANIZED STEEL RISER, INSTALL A 2" RISER WITH WEATHERHEAD
 - AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
- B. ON METAL POLES WITH MAST ARMS, RUN COAXIAL 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 COAXIAL CABLE TO THE ANTENNA.
- C. ON METAL STRAIN POLES, RUN COAXIAL CABLE UP THROUGH THE POLE AND OUT THE WEATHERHEAD
- AND ROUTE THE COAXIAL CABLE TO THE ANTENNA.
- D. BETWEEN THE POINT OF EXITING THE RISER, METAL POLE OR MAST ARM AND THE ANTENNA, SECURE THE COAXIAL CABLE TO THE STRUCTURE USING 3/4" STAINLESS STEEL STRAPS EVERY 12".
- 2. IF AN EXISTING 2" SPARE RIGID GALVANIZED STEEL RISER IS AVAILABLE, INSTALL THE COAXIAL CABLE IN THE SPARE RISER AND SEAL RISER WITH HEAT SHRINK TUBING RETROFIT KIT.
- 3. INSTALL WIRELESS ANTENNA ON POLE WITH RF WARNING SIGN.
- (NOTE: RF WARNING SIGN NOT REQUIRED WHEN ANTENNA IS INSTALLED ON AN NCDOT-OWNED POLE.)
- 4. MAINTAIN PROPER CLEARANCE FROM ALL UTILITIES PER THE NATIONAL ELECTRICAL SAFETY CODE.
- 5. INSTALL WIRELESS SERIAL 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.)
- 6. REFERENCE "WIRELESS RADIO ANTENNA TYPICAL DETAILS."

LEGEND

YAGI ANTENNA (DOUBLE) FOR REPEATER OPERATION YAGI ANTENNA (SINGLE)

OMNI ANTENNA

EXISTING CONTROLLER AND CABINET EXISTING MASTER CONTROLLER AND CABINET

SIGNAL INVENTORY NUMBER (XX-XXXX) NEW METAL POLE W/MAST ARM EXISTING WOOD POLE

NEW METAL POLE SIGNAL POLE EXISTING METAL POLE

NEW OVERSIZED JUNCTION BOX EXISTING OVERSIZED JUNCTION BOX

----- EXISTING CONDUIT NEW CONDUIT

-EXI——EXISTING COMMUNICATIONS CABLE

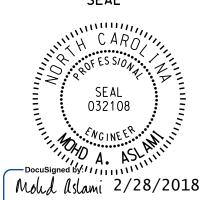
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



RADIO COMMUNICATION PLANS

	Division	9 F	Forsyth	County	Kernersville
	PLAN DATE:	FEBRUA	RY 2018	REVIEWED BY:	Mil duery
75 20	PREPARED BY:	Δ .1	SKIICE		09E5DB4CBED3443

750 N.Greenfield Pkwy.Garner.NC 27529 PREPARED BY: A. J. SKUCE



--- 5D9B0BA6DBB6495...