

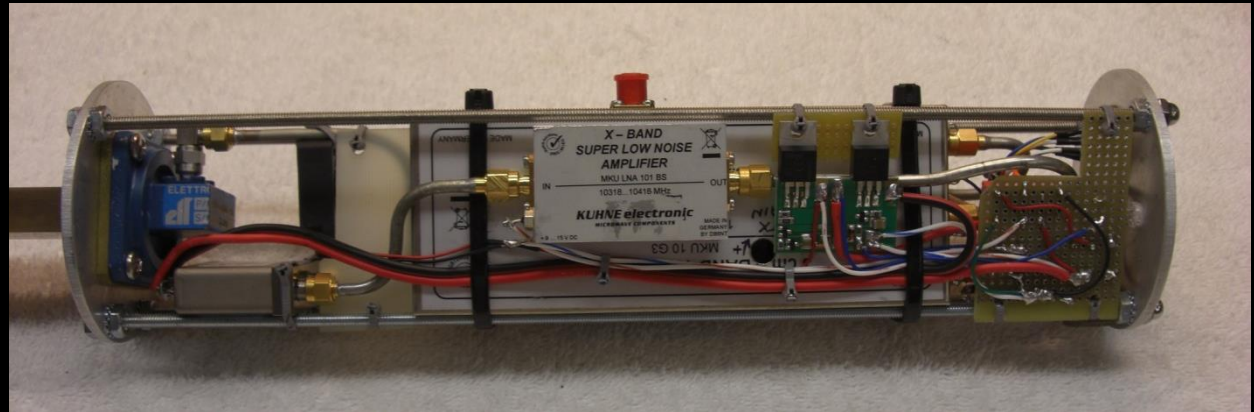
Brad Cobo N5WCO, NTMS Meeting 4/2/16

# 10GHz Omni Rover Rig

## Overview

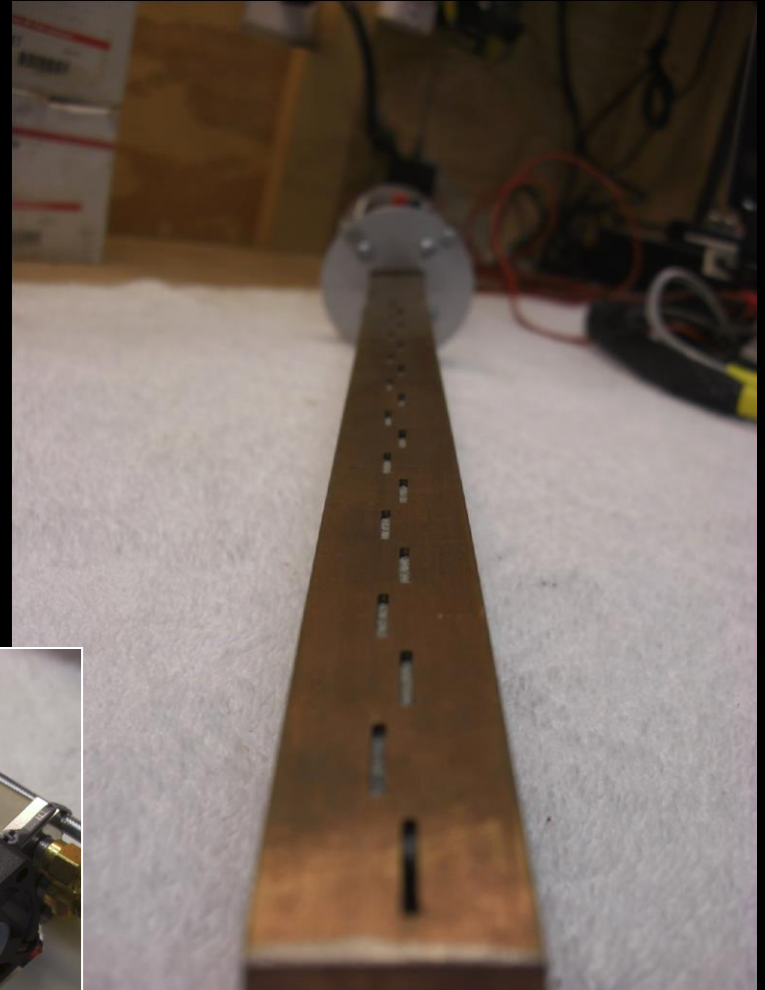
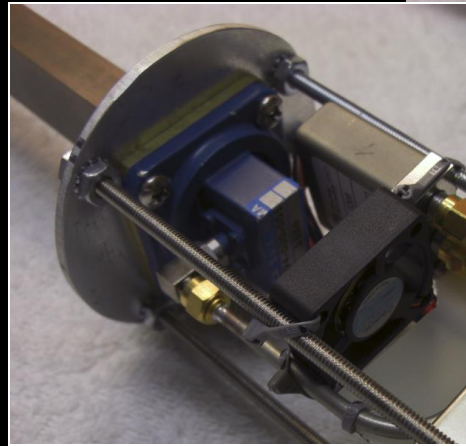
# 10G Omni Rover Rig

- Based on DB6NT Hardware
- 144 MHz 5W IF
- 10GHz 2W Out
- Built-in Sequencer
- Heavy-Duty Weatherproof Enclosure
- Universal Rig Interface
- Club Loaner Rig?

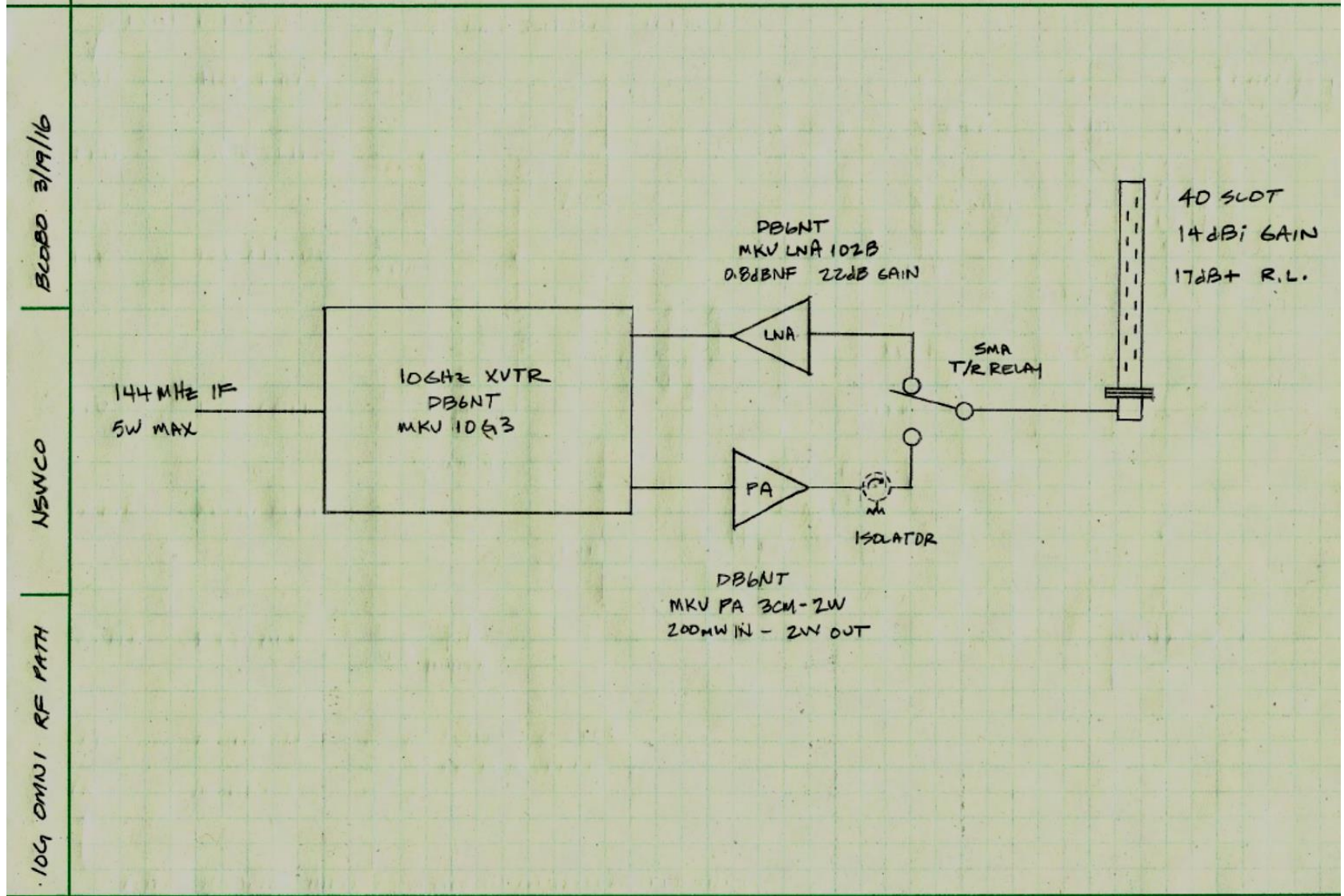


# 10G Slotted Waveguide Antenna

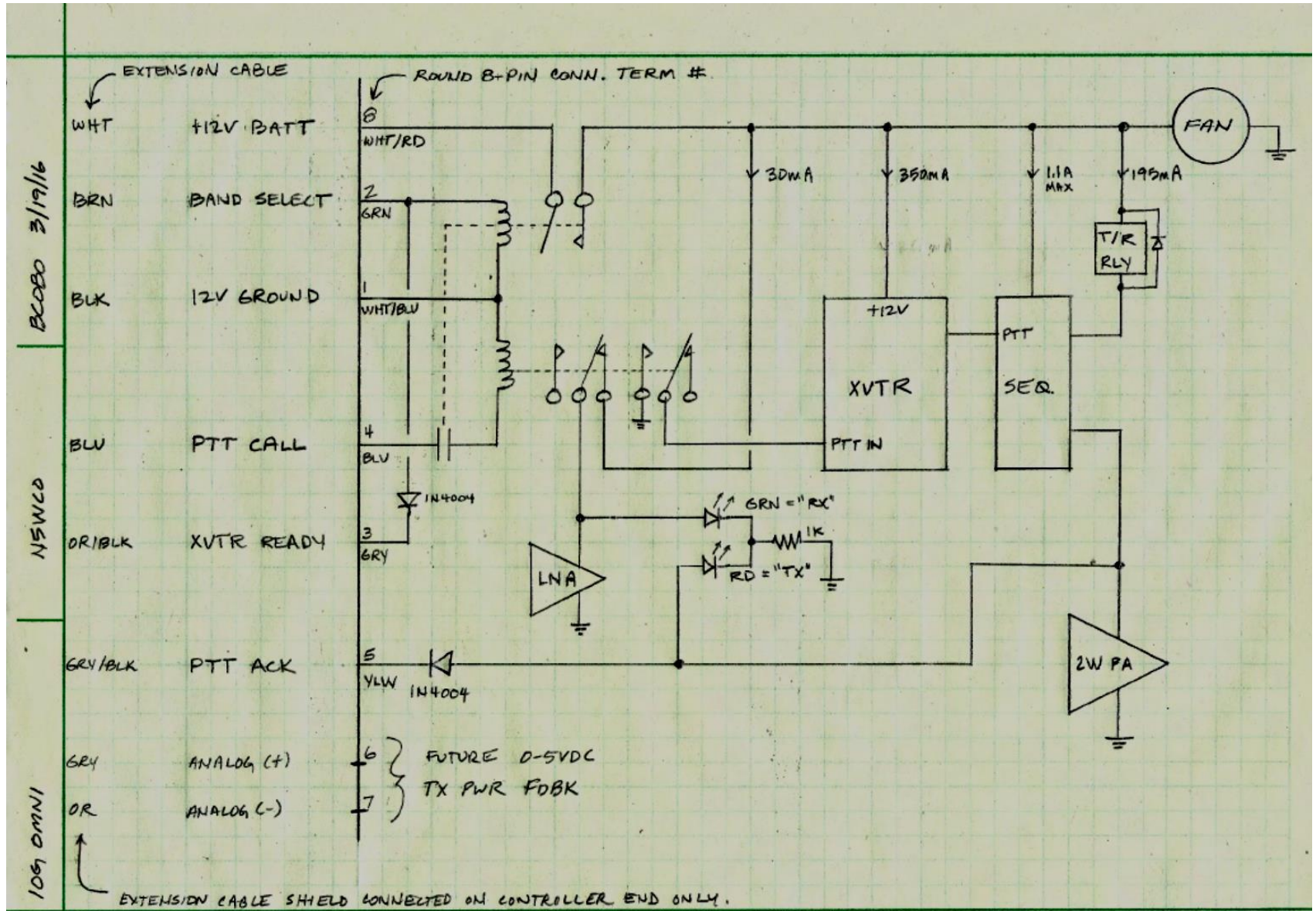
- WR-90
- 40 Slot
- 14dBi Gain
- 17dB+ Return Loss
- 4-5° beamwidth
- Beam tilt compensated
- Bob WA5YWC (Machining)
- AI W5LUA (VNA Measurement for backstop position)
- Kent WA5VJB (Antenna Range Validation)



# RF Chain



# Power/Control





# N5WCO Rover Setup

- FT-817 IF Radio
- Win8 Laptop
- SignalLink Interface
- Digital Mode Ready(?)
- NooElec Dongle SDR w/  
W1GHz IF Panadapter
- XVTR Controller

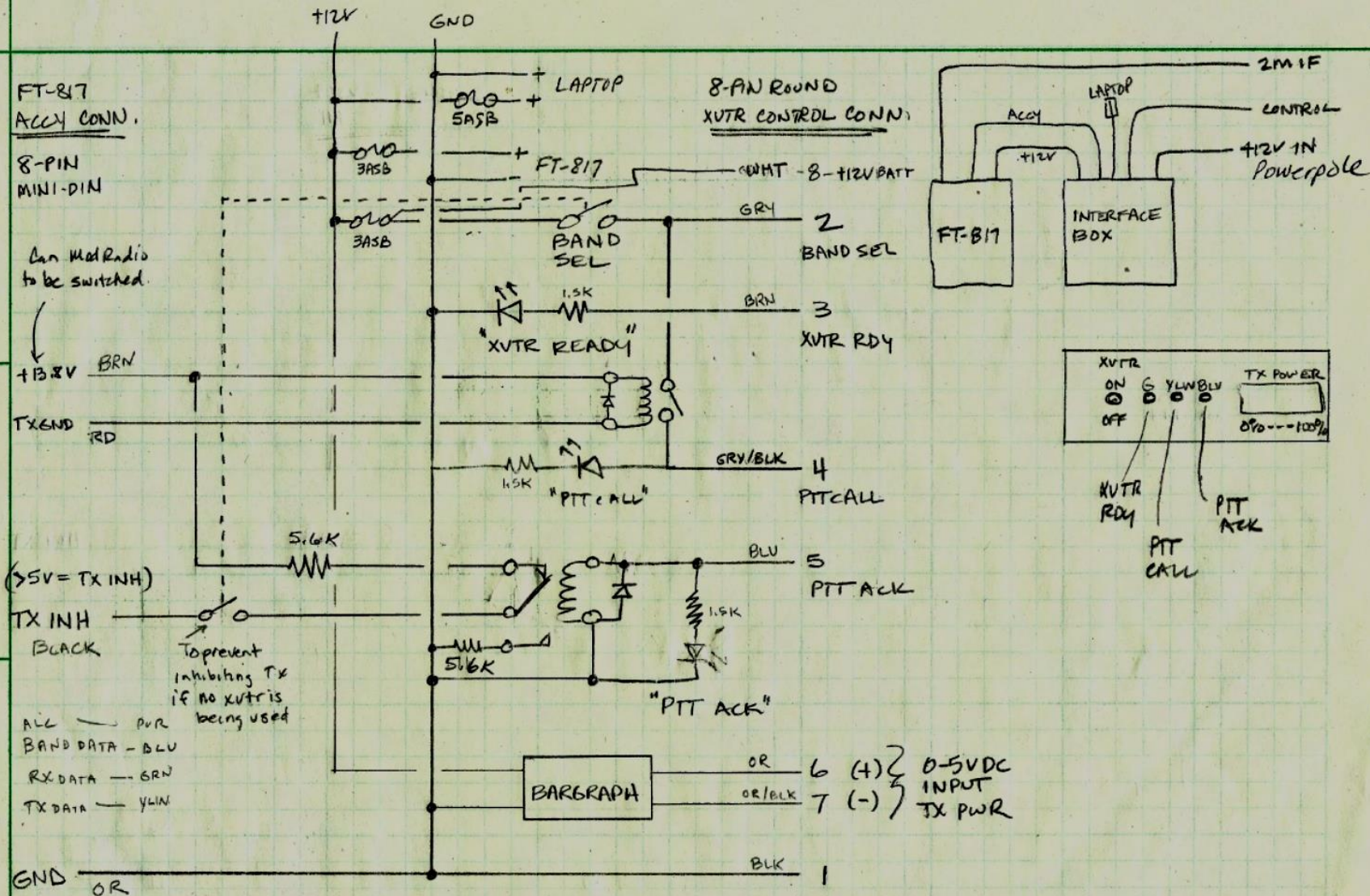


# N5WCO Rover XVTR Controller

10/25/15

INTERFACE

FT-817 TO XVTR





# 73's de N5WCO/R



2014 Contest: I-35 Overlook in Southern Oklahoma