

Antenna TR and muting function for 10 separate stations

- For receivers, each station will have an RG-58 coax line from each receiver going to a centrally located coax patch panel which we will call A
- For transmitters, each station will have an RG-58 coax line from each transmitter going to coax patch A
- A 5 wire PTT cable from each position operating position will go to patch panel A
- A single antenna TR relay located at the patch panel A
- 2 wires of the 5 wire cable will be used for PTT
- A muting relay which activates when the antenna TR relay gets engaged will be located on patch A
- Muting to a receiver is done with 3 wires of the 5 wire cable going from the muting relay on patch panel A to each operating position
- Receive operation will require a coax jumper at patch panel A to route coax line from a particular receiver to the master antenna TR relay located on patch panel A
- Transmit operation will require a coax jumper at patch panel A to route coax line from a particular transmitter to the master antenna TR relay located on patch panel A
- Muting will be accomplished with N.O. - N.C. and common muting relay fed back over 3 of the 5 wires within the 5 wire cable mentioned above
- A patch cable will be used to route the P.T.T. and muting located on patch panel A

TX Audio control function for 10 separate stations Two balanced shielded Belden 8412 from each station to an central audio rack point which we will call B

- One audio line from each station going to B
- One audio line to each station from B
- Point B will house a Symetrix 528 voice processor
- Point B will house an ATI 16 channel line level DA
- Microphones will be low impedance dynamics XLR connected
- The audio back from B to a given operating station will be sourced from separate transformer isolated line level outputs from the DA located at point B
- Line level audio will be level adjusted based on the individual characteristics of the particular transmitter.
- Audio EQ, if needed will be done individually at each stations location