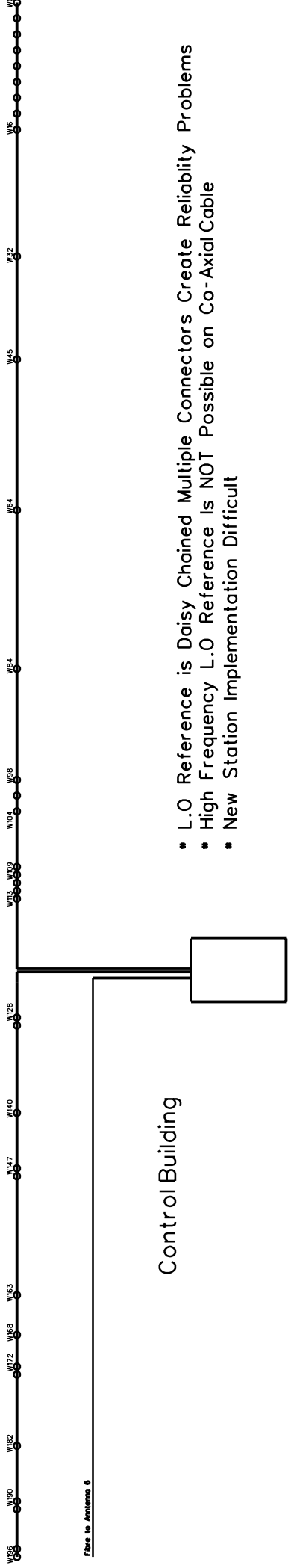


A.T.C.A LOCAL OSCILLATOR UPGRADE

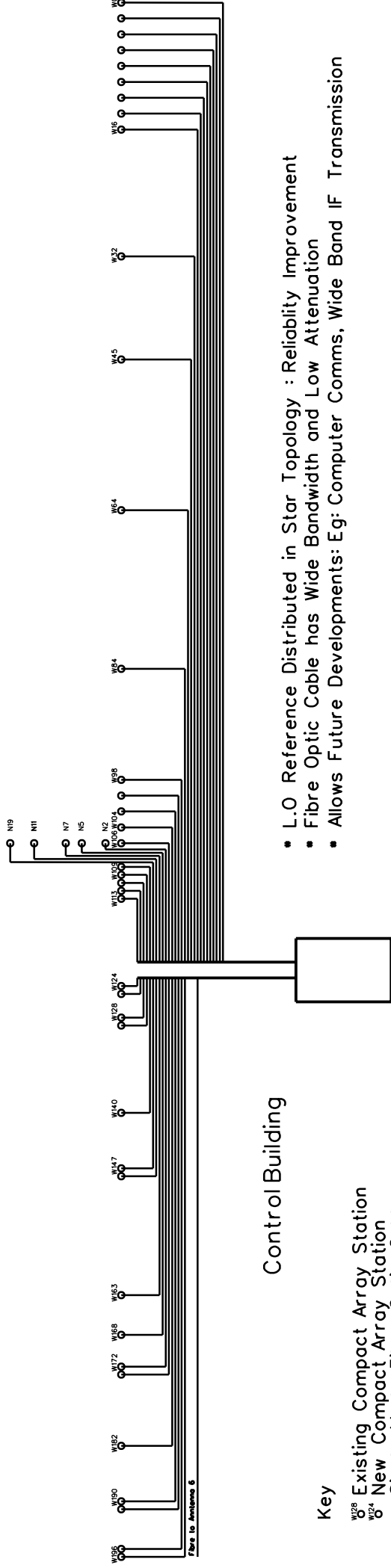
Current Local Oscillator Reference Distribution



Control Building

- * L.O Reference is Daisy Chained Multiple Connectors Create Reliability Problems
- * High Frequency L.O Reference is NOT Possible on Co-Axial Cable
- * New Station Implementation Difficult

New Local Oscillator Reference Distribution



Control Building

- * L.O Reference Distributed in Star Topology : Reliability Improvement
- * Fibre Optic Cable has Wide Bandwidth and Low Attenuation
- * Allows Future Developments: Eg: Computer Comms, Wide Band IF Transmission

Key

- W128 Existing Compact Array Station
- W64 New Compact Array Station
- Single Mode Fibre Optic Cable
- Existing Coaxial Cable