



LAKE HAVASU CITY

Community Investment Department

SCADA System Standardization

Prepared By

Lake Havasu City, Arizona
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Radio Path Study

- A Comprehensive onsite radio path study shall be performed.
 - Island Wastewater Treatment Plant Main Antenna, GPS coordinates 34.462232, -114.357384
 - Record RSSI (Received Signal Strength Indication)
 - Identify antenna location and elevation.
 - GPS coordinates and site specific data including antenna information and cables used to perform test.
 - Radio - **Esteem 195ep**
- PLC/RTU cabinet shall have an AC unit to maintain 80F
 - Sun shade required

Fiber Optic (If required)

- Installation shall be per the current adopted NEC
- Shall be single mode fiber
- Hand hole spacing = 500' Max
- Hand hole Size = 24" x 24" Min.
- Slack = 50' Min. (Every 1000 LF)
- Network Switch= **Dell N302P** or **N3048P-ON**. Shall be supplied to the City's IT Division for set up and configuration.
- Conduit = 2" min dia. (3" is preferred)
- Bend radius (no 90 degree turns), sweeps are required

***See SCADA System Design Standards for additional requirements.**

Manufactures listed above are for reference and system standardization. Request for Approved Equals can be submitted to the Engineering Division for review and approval as long as the equipment meets the requirements of the respective Standard Specification.