Modernization and Automation

Fully Automated Main Canal
Main Canal: 62 miles

Seventeen check structures in the GCID Main Canal have been equipped with their own PLC running specially-tuned automation control code. The new SCADA (Supervisory Control and Data Acquisition) system allows GCID’s operators to do the following remotely, from the office or their mobile device, for the check structures within the whole canal from the Main Pumping Plant to the Freeway Check:

1. Automated upstream water level control
2. Remote manual control
3. Remote monitoring
4. Remotely select sensors
5. Remotely (via a secure mode) change key controller setpoints
6. Remotely change the operation mode from automatic to manual (if necessary)

In Progress...

GCID is currently in the process of improving flow measurement into 60+ major laterals.