

The Industrial market is an area of steady need and complex details. We design and install large-scale electrical systems, as well as provide instrumentation and control (I&C), automation, and integration services. Due to the ever-changing requirements of this market, we stress communication, comprehension, and education—adopting new technologies to stay ahead of our competition and our clients' requests.

CORE CAPABILITIES

A Wide Range of Expertise

- Our technicians are proficient in many settings, including water treatment plants, wastewater treatment plants, reservoirs, pump stations, pressure-reducing stations, and pressure-regulating stations
- Services include engineering, design/assist, consulting, troubleshooting, calibrations/documentation, and instrument setup
- Specific skill areas include:
 - Motor control logic and devices
 - Programmable Logic Controller (PLC) hardware and programming
 - Electrical AutoCAD®
 - 2D & 3D mechanical, electrical, and plumbing (MEP) coordination process using NavisWorks® collaborative software
 - State-of-the-art fiber optic/voice and data technology
 - System-unifying communications protocols
 - AC drives, soft start logic
 - Instrumentation (pressure, flow, temperature, level, analytical)





A Wide Range of Expertise (cont.)

- National Institute of Standards and Technology (NIST)-traceable pressure and temperature calibration equipment
- Proper device cabling/wiring
- Testing processes
- Documentation/reports

Excellence Within Our Ranks

- Certified I&C field technicians and electricians are dedicated to a project from installation through start-up of systems
- In-house Neal Electric experts include:
 - A California Registered Engineer
 - Instrumentation control engineers
 - A certified Modicon integrator
 - Factory-trained Rockwell automation specialists
 - National Electrical Contractors Association (NECA)/National Joint Apprenticeship and Training Committee (NJATC)-trained and certified personnel
- Neal Electric offers unique industry services:
 - A certified UL 508A Industrial Control Panel fabrication shop
 - An authorized Toshiba Industrial Variable Frequency Drive center
 - An authorized service center for Scott/Tyco Fixed Gas instruments

Service With Support

- Well-informed internal resources facilitate every installation
- More than 27 stocked service vehicles—7 dedicated to I&C—are available on a daily basis
- Expedient 24/7 emergency response service offers clients continued peace of mind

SERVING THE NEEDS OF THE GREATER COMMUNITY: OUR CLIENTS

WATER TREATMENT PLANTS

- South Bay Water Reclamation Plant—Kiewit Pacific (City of San Diego)
- Miramar Water Treatment Plant—Archer Western (City of San Diego)
- Alvarado Water Treatment Plant—Archer Western/CH2M HILL (City of San Diego)
- Twin Oaks Valley Water Treatment Plant—CH2M HILL (San Diego County Water Authority)

PUMP STATIONS

- Helix Water District: Los Coches Pump Station—Western Summit
- San Diego County Water Authority: San Vicente Pumping Station
 - Kiewit Pacific
- City of San Diego Metropolitan Wastewater Department (MWWD):
 - Nearly 20 sewer pump stations throughout San Diego County
- City of San Diego Water Department:
 - Approximately 40 high-capacity pump stations throughout San Diego County

PRESSURE-REGULATING STATIONS

- More than 100 stations throughout greater San Diego County, serving multiple municipal districts

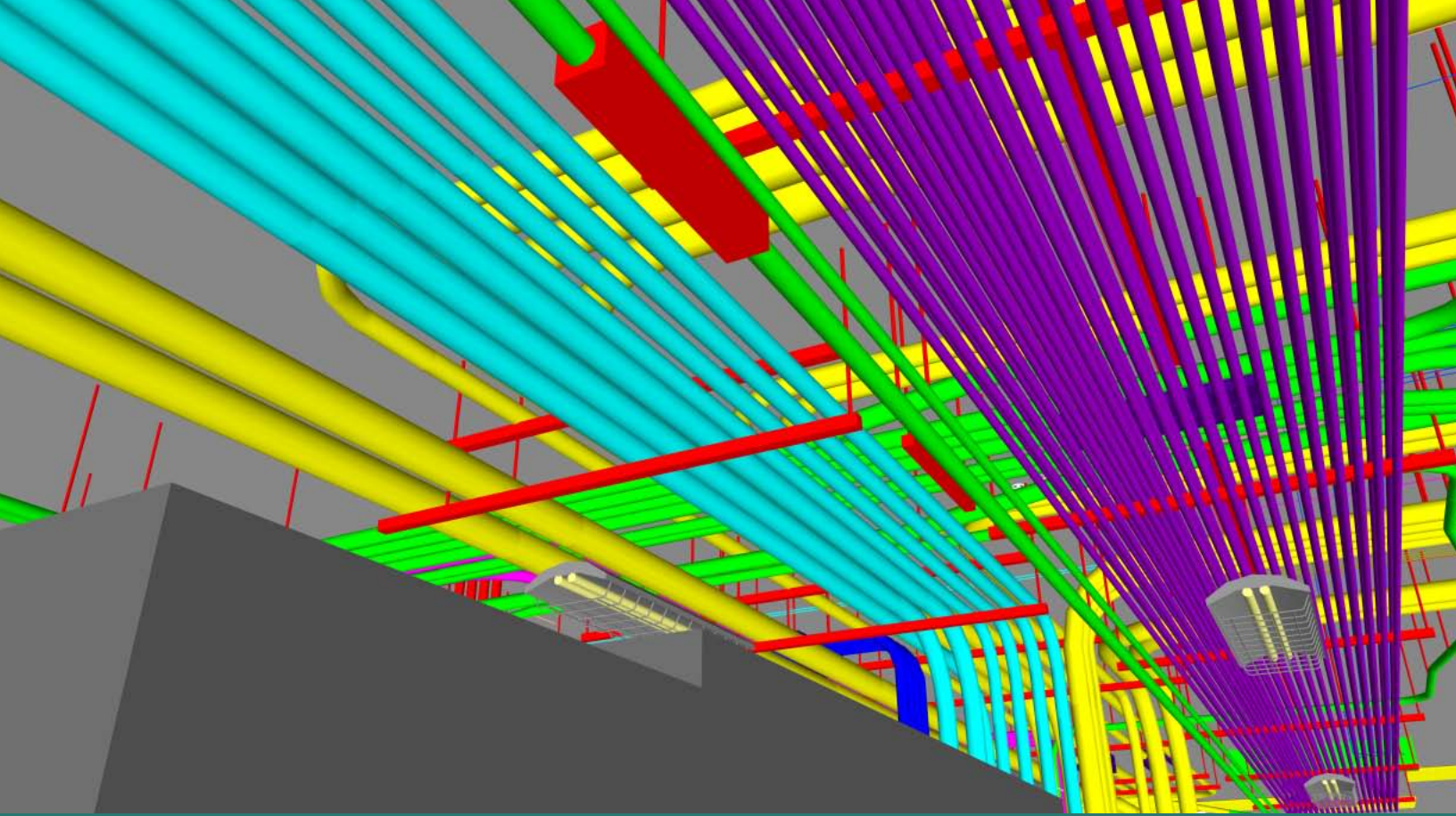
RESERVOIRS

- Many Reservoirs throughout the city and county including;
 - Redwood Village Standpipe
 - University Heights Reservoir
 - Del Cerro Reservoir
 - Los Peñasquitos Tank
 - La Jolla View Tank
 - Catalina Standpipe
 - Paradise Mesa Standpipe

PIPELINE and RAW WATER FACILITIES

- Multiple Pipeline and Raw Water facilities throughout the city and county of San Diego including;
 - Pipeline 3 Flow Control Facility
 - Del Dios Valve Vault
 - Pipeline 5 Flow Diversion
 - Pipeline Blow-off Valve Vault
 - Helix 6,7,8 Flow Control Facility
 - Rancho Santa Fe Flow Control Facility





FROM PLANNING TO INSTALLATION

