

OPPORTUNITY *"Small opportunities are often the beginning of great enterprises."* -Demosthenes

EDUCATIONAL FACILITIES

TRC's education facility experience includes design for new elementary and high schools to meet the demand of rapidly growing school districts, upgrades of existing facilities to meet State School Facilities Board guidelines and renovation of university level classroom and administration space. All of these designs have included the challenge of providing facility space that will accommodate changing technology while meeting tight construction budgetary constraints.



Willow Canyon High School, Surprise, AZ This new high school campus project included two 60,000 square foot, 2-story classroom buildings, a 30,000 square foot admin / media building, and an 80,000 square foot multi-purpose building with two gymnasiums and an auditorium. TRC provided electrical engineering design including three electrical services, campus walkway and parking lot lighting, sport's field lighting, and power and lighting systems.

Dysart Elementary Project

These facilities are each 100,00 square foot elementary schools. Each facility includes classrooms, a gymnasium, cafeteria, library, science labs, computer labs, a kitchen, administrative offices and break area, and a central plant. TRC provided construction drawings and specifications for all aspects of the electrical design including: electrical distribution system, general use power, lighting, fire alarm, and power for HVAC systems. TRC has also provided security, paging and sound system design on several of these projects.



Dysart Elementary Schools

- ◆ Ashton Ranch Elementary, Surprise AZ
- ◆ Cimarron Elementary, Surprise AZ
- ◆ Marley Park Elementary, Surprise AZ
- ◆ Thompson Ranch Elementary, El Mirage AZ
- ◆ El Mirage Elementary, El Mirage AZ
- ◆ Surprise Elementary, Surprise AZ
- ◆ Sierra Montana Elementary, Surprise AZ
- ◆ Rancho Gabriella Elementary, Surprise AZ

WORK *"Pleasure in the job puts perfection in the work."* -Aristotle



Dysart Schools Deficiency Upgrades

TRC provided electrical engineering for various deficiency upgrades at Kingswood, Luke, El Mirage, Surprise, and Dysart elementary school and Dysart High School. Projects included lighting upgrades, HVAC replacements, electrical distribution upgrades, and fire alarm and intercom upgrades. TRC coordinated closely with the Architect and the Arizona School Facilities Board for the successful completion of the projects.

Dysart High School El Mirage, AZ Taylor RyMar Corporation provided electrical engineering and master planning for the complete renovation of Dysart High School. This project was designed and constructed in phases to accommodate existing classes and activities on the campus. Projects included a new 60,000 square foot classroom building; music and administration wing additions to the existing auditorium; a new 60,000 square foot multi-purpose building with gymnasiums, locker rooms, kitchen, and cafeteria; a new 38,000 square foot media center; and new site lighting. The project also included sports field lighting for soccer fields, baseball and softball fields, and multi-use sports courts.



Northern Arizona University Forestry Service Building Re-model Flagstaff, AZ

TRC provided mechanical, plumbing, electrical, and fire protection engineering services for this 10,000 square foot tenant improvement in the NAU Campus Forestry Building. The project space included several offices, experimental labs, a computer lab, and an administrative area.

EXCELLENCE *“The secret of joy in work is contained in one word - excellence. To know how to do something well is to enjoy it.” -Pearl Buck*

Glendale High School Shop HVAC Upgrades Glendale, AZ

TRC provided mechanical and electrical engineering services for air conditioning upgrades to metal and wood shops at 8 separate campuses within the school district. Project included electrical distribution upgrades to support new HVAC equipment loads. TRC provided construction administration and observations through-out construction.



Paseo Hills Elementary School Expansion Phoenix, AZ TRC provided design for this 9,200 square foot elementary school expansion in Phoenix, Arizona. The project included classroom, computer labs, restroom, and support spaces. Services were also provided for temporary portable classroom facilities which were used while the expansion was under construction. Additional work on this site includes power and lighting for a City owned ball field and park adjacent to the school.

Deer Valley Schools Deficiency Upgrades Phoenix, AZ

TRC provided mechanical and electrical engineering for various deficiency upgrades at Arrowhead, Desert Sage, and Esperanza Elementary Schools, Deer Valley, Desert Sky, and Hillcrest Middle Schools, and Deer Valley and Barry Goldwater High Schools. Projects included lighting upgrades, HVAC replacements, and other deficiency corrections. TRC also provided additional services for design of air-conditioning additions at the middle school gymnasiums. TRC coordinated closely with the Architect and the Arizona School Facilities Board during



Terramar Elementary School Peoria, AZ This new 76,000 square foot elementary school included a 2-story classroom building, and administration and media center, and a multi-purpose building with a cafeteria / gymnasium. This project utilized packaged rooftop and split system mechanical units, a 3000-amp electrical service, full fire alarm and sprinkler coverage, site lighting, and provisions for future portable classrooms. We coordinated with Arizona Public Service to design new street lighting along the front of the property, as well as provisions to relocating all above ground utilities to below grade. TRC coordinated closely with the City of Peoria to meet their strict requirements for fire alarm and fire sprinkler systems, including providing engineered fire alarm and sprinkler calculations, equipment cut sheets, and details.