

## ❖ LABORATORY MATERIALS TESTING SERVICES

Providing support for our geotechnical engineering and construction monitoring divisions, Triad maintains complete laboratory facilities where tests are conducted by experienced technicians under the supervision of professional engineers. Our laboratory technicians hold many applicable state agency certifications. Materials tested include soil, concrete, aggregate, asphalt, rock and sprayed-on fireproofing. Our testing labs routinely participate in national quality control programs administered by AMRL and CCRL which follow AASHTO and ASTM testing procedures.

### Our Laboratory Materials Testing Services Include:

- ▾ Soil Classification (Atterberg Limits and Grain Size Distribution)
- ▾ Moisture Content
- ▾ Specific Gravity
- ▾ Soil pH
- ▾ Organic Content
- ▾ Natural Density and Moisture Content
- ▾ Moisture-Density Relations (Standard and Modified)
- ▾ Maximum and Minimum Density (Granular Soils)
- ▾ California Bearing Ratio (CBR)
- ▾ Unconfined Compression
- ▾ Triaxial Shear
- ▾ Direct Shear
- ▾ Consolidation
- ▾ Permeability (Flexible and Rigid Wall)
- ▾ Los Angeles Abrasion
- ▾ Sodium Sulfate Soundness
- ▾ WVDOH Fractured Faces
- ▾ Clay Lumps and Friable Particles
- ▾ Flat and Elongated Particles
- ▾ Compressive Strength Testing
  - Concrete Cylinders
  - Concrete and Rock Cores
  - Grout Prisms, Grout Cubes and Mortar Cubes
  - Concrete Masonry Units
- ▾ Flexural Strength Testing - Concrete Beams
- ▾ Concrete Beam Shrinkage
- ▾ Concrete Chloride (Rapid Permeability, Shrinkage)
- ▾ Asphalt Testing (Absorption, Density and Extraction, Gradation, and Marshall Stability and Flow)
- ▾ Fireproofing Density and Moisture Content
- ▾ Pyritic Sulfur Content

