

**DZ Engineering, Inc.**  
Civil Engineers

15615 N. 71<sup>st</sup> Street  
Suite 202  
Scottsdale, AZ 85260  
(480) 247-2956  
(480) 247-2958 Fax

David M. Noe, PE  
Ziad Kaakouch

## Ziad Kaakouch

Principal

### **Education:**

- BS in Civil Engineering -California State Polytechnic University - Pomona, California – 1994
- Fundamental In Engineering (FE) certificate – Michigan – 1996

### **Professional Societies:**

Member of ASCE

### **Responsibilities:**

Principal engineer responsible for final design and review of all Grading and Drainage Plans; Drainage Reports; Site Improvement Plans (including paving, fire water, domestic water, and sanitary sewer); site septic system designs; site topographical surveys, and structural engineering.

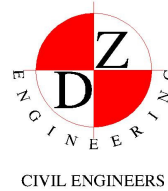
### **Project Experience:**

#### DZ Engineering, Inc. - Scottsdale, Arizona

- Prepare improvement plans for an 11 building regional retail/commercial development over 17 acres in Sun Lakes, Arizona. Designs include water and sewer extension, concrete, paving, grading and drainage, storm drain and underground retention design and MCDOT roadway and signing and striping (S&S), ADOT roadway and S&S.
- Prepare improvement plans for a 3 building retail/commercial development over 4.4 acres in Mesa, Arizona. Design included water and sewer extension, concrete, paving, grading and drainage, storm drain and underground retention design.
- Prepare improvement plans for a 9 building regional retail/commercial development over 10.85 acres in Chandler, Arizona. Design included water and sewer extension, concrete, paving, grading and drainage, storm drain and underground retention design and off-site roadway, drainage, S&S and stormwater pollution prevention engineering.
- Engineering design and improvement plan preparation for a new COX Communication development over 1.22 acres in Florence, Arizona and another over 0.51 acres in Sahuarita, Arizona. Design included concrete, paving, grading and drainage design and stormwater pollution prevention engineering.
- Prepare improvement plans for a 12 building regional retail/commercial development over 19.45 acres in Goodyear, Arizona. Design included water and sewer extension, concrete, paving, grading and drainage, off-site improvements, storm drain and underground retention design, grading and drainage and stormwater pollution prevention engineering.
- Design improvement plans for a 302-lot residential subdivision over 80 acres in Buckeye, Arizona. Responsibilities included are platting, hydrology analysis and modeling, paving & concrete design, grading and drainage design, water distribution system design and modeling, sanitary sewer system design and modeling, off-site improvements, stormwater pollution prevention design and hydrological and hydraulic reports.
- Design improvement plans for a 7-lot hillside residential subdivision over 32 acres in Carefree, Arizona. Specifically including responsibilities of Platting, sensitive development design, hydrology analysis and modeling, sanitary sewer system design and modeling, hydrological and hydraulic reports.
- Design and improvement plans for a for a 13-lot hillside residential subdivision over 70 acres in Cave Creek, Arizona. Specifically including responsibilities of Platting, hydrology analysis and modeling, sensitive development design, paving & concrete design, grading and drainage design, water distribution system design and modeling, soil test plan design, stormwater pollution prevention design and hydrological and hydraulic reports.
- Responsible engineer for preliminary platting of a 135-lot hillside residential subdivision over 96 acres in South Phoenix, Arizona. Specifically including responsibilities of platting, hydrology analysis and

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modeling, preliminary grading and drainage design, utility layouts and offsite improvements.

- Responsible engineer for improvement plans for a 15-lot residential subdivision over 4.55 acres in Glendale, Arizona. Specifically including responsibilities of platting, hydrology analysis and modeling, paving & concrete design, grading and drainage design, water distribution system design and modeling, sanitary sewer system design and modeling, stormwater pollution prevention design and hydrological and hydraulic reports.
- Prepared improvement plans for a 34-lot residential subdivision in Phoenix, Arizona
- Prepared improvement plans for a 32-lot residential subdivision in Phoenix, Arizona
- Prepared improvement plans for a new church building on 2 acres in Phoenix, Arizona
- Prepared improvement plans for 2 church buildings in Prescott, Arizona
- Prepared improvement plans for a new church building on 4 acres in Goodyear, Arizona
- Prepared improvement plans for a 60,000 s.f. warehouse facility on 3 acres in Phoenix, Arizona
- Prepared improvement plans for a 98-unit apartment complex in Phoenix, Arizona
- Prepared improvement plans for a 60-unit apartment complex in Phoenix, Arizona
- Prepared improvement plans for the expansion of Cocopah Middle School, Cherokee Elementary School, Mohave Middle School, and Cochise Elementary School in City of Scottsdale.
- Prepared roadway improvement plans on multiple projects for SunCor Development in Goodyear and Avondale, Arizona
- Prepared improvement plans for a prison detention facility in Page, Arizona

- Prepared improvement plans for 60,000 s.f. Clean-Room manufacturing facility in Scottsdale, Arizona
- Prepared improvement plans for 6,000 s.f. office building and storage facility in Mesa, Arizona
- Prepared improvement plans for 4,000 s.f. storage facility in Avondale, Arizona
- Prepared improvement plans for a 6-lot residential hillside subdivision in Phoenix, Arizona
- Prepared improvement plans for a 7-lot residential subdivision in-fill project in Phoenix, Arizona
- Conducted numerous site topographical surveys, and prepared residential and commercial grading and drainage plans throughout Maricopa County.

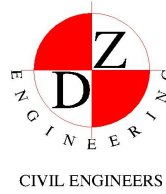
### Stantec Consulting - Phoenix, Arizona

Assistant Project Manager for the following projects:

- Prepared civil improvement plans for Safeway Store in Tucson, Arizona. These plans constituted of paving, grading and drainage and utility plans.
- Prepared civil improvement plans for Safeway Store in Wickenburg, Arizona. These plans constituted of paving, grading and drainage and utility plans.
- Prepared civil improvement plans for Safeway Store in Peoria, Arizona. These plans constituted of paving, grading and drainage and utility plans.
- Prepared civil improvement plans for Safeway Store in Casa Grade, Arizona. These plans constituted of paving, grading and drainage and utility plans.
- Prepared civil improvement plans for Safeway Store in Gilbert, Arizona. These plans constituted of paving, grading and drainage and utility plans.
- Prepared civil improvement plans a parking lot for Gateway Community College. These plans constituted of Paving, grading and drainage plans.

### Giffels Associates - Phoenix, Arizona

As a civil group leader for this multi-disciplined A/E firm, responsible for design activities included in the civil



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engineering discipline, such as development of the various site utility requirements, site topography, roads, parking lots, site drainage, sewer and water systems, etc.

- Prepared civil improvement plans for 40,000 s.f. Exponent Failure Analysis facility expansion in Phoenix, Arizona
- Prepared civil improvement plans for 130 acre mixed use development in Mesa and Gilbert, Arizona. The design included Roadway plans, water and sewer main extension, grading and drainage, storm water retention and storm water prevention plans.
- Prepared road improvement plans for anti-lock braking facility for an unnamed automobile manufacture.
- Prepare civil engineering plans, including grading and drainage, sewer and water system design and layout for automobile manufacturing facilities.