

GROUND BREAKING

NEWS YOU CAN BUILD ON FROM G2 CONSULTING GROUP

2010 Issue 1

Solutions

G2 reduces foundation costs for new Chicago community health center



Geotechnical engineering by G2 Consulting Group significantly reduced the foundation and excavation costs for Lawndale Christian Health Center's (LCHC) proposed new community health center in west Chicago, Ill.

Located at 3748 W. Ogden Avenue – two blocks from the largest of LCHC's four existing centers – the new five-story building will include a clinic, fitness areas and offices. It will allow the nonprofit LCHC to meet an increasing demand for affordable community healthcare services in the neighborhood.

Several unoccupied buildings on the proposed site will be demolished to accommodate the new center.

Based on the soils within the site, existing fill and medium stiff silty clay, and the new center's maximum expected column loads of up to 450 kips, G2 determined the most cost-effective foundation system would utilize belled piers extending through the fill material and lower consistency clay. Using belled piers significantly reduced costs of removing and replacing the existing fill soils and lower consistency clay soils and also cost less than the standard straight-shaft drilled piers. G2 worked closely with the project architect, McBride Kelley Baurer of Chicago, and the structural engineer, Hutter Trankina Engineering of Wayne, Ill., to develop the most cost effective foundation for the project.

The project also included deeper excavations extending to depths of 15 to 20 feet for construction of a partial basement area. G2 provided a slope stability analysis for the basement excavation and determined the contractor could use a steeper side slope than previously proposed. This reduced earthwork costs and eliminated the need to use a costly earth retention system that may have been required for the basement excavation.

Petition supports restored transportation funding to save jobs, federal matching funds

Michigan currently stands to lose \$475 million in federal matching funds for road and bridge projects unless the state legislature revises the proposed 2010-2011 transportation budget to address an \$84 million shortfall. If not remedied, it would slash MDOT's budget by 35 percent and cost significant jobs in engineering and construction. It will also directly negatively impact private development and tourism in our state.



G2 Dirt

Matt Kunz, a project scientist in G2's suburban Chicago office, has become a licensed lead inspector in the state of Illinois.

Five college interns, all pursuing bachelor's degrees in civil engineering, will join G2's construction services engineering group this summer. Returning interns include **Michelle Abro** from the University of Michigan and **Allison Maraldo**, a student at University of Detroit Mercy. New interns include **Samantha Justice** of UM, **Christine Pageau** of Michigan State University and **Jeffrey Scheuer** of Oakland University.

G2's **Jeff Hayball** and wife **Sarah** welcomed son Donovan Anthony Hayball on Dec. 9, 2010.

Colleen Reseigh and husband **Ryan** welcomed son Shane Patrick Reseigh on Jan. 7, 2010.

Jason Stoops and wife **Kristin** had son Charles Jason Stoops on March 26, 2010.



G2 The Geo-logical Choice

We're proud to announce the following new clients and projects!

Client: Westin Engineering

Projects: T-Mobile site, Ingleside, IL – ground penetrating radar survey to locate underground storage tank

Client: Banco Popular

Projects: Three sites, Chicago, IL – Phase I ESAs

Client: Federal Aviation Administration

Projects: DuPage Airport surveillance radar tower, West Chicago, IL – geotechnical engineering

Client: Siva Architects

Projects: Siemens facility expansion, Elgin, IL – geotechnical engineering

Client: Walter Toebbe Construction Company

Projects: I-196, Grand Rapids, MI – geotechnical engineering and design

Client: O'Laughlin Construction

Projects: North Huron Valley Sewage Disposal System, Wayne County, MI – geotechnical design engineering

Client: C.A. Hull Company

Projects: M-84 over I-75, Bay County, MI – geotechnical engineering and design

Client: Eagle Excavating

Projects: Genesee County Pump Station No. 1, Genesee County, MI – geotechnical design

Client: F.H. Martin

Projects: Kroger, Grosse Pointe, MI – geotechnical engineering and design

Client: Frank Rewold and Son

Projects: Lutheran Church, Birmingham, MI – construction engineering services

Client: Richards Building Supply

Projects: Various sites, Parkersburg, WV, and Lima, OH – environmental consulting

Client: Dopp Advisors, LLC

Projects: Two sites in Romulus, MI, and one site in Auburn Hills, MI – environmental consulting

To protest this unacceptable situation, the American Council of Engineering Companies Michigan chapter (ACEC/M) launched a transportation funding petition on Feb. 4 during the Michigan Department of Transportation (MDOT) – ACEC/M Partnering Conference in Lansing, Mich. The petition urges our state legislators to support increased funding for our transportation infrastructure. Since then, the members of the Michigan Transportation Team have joined the initiative by circulating the petition amongst their members. The team members include the County Road Association of Michigan, the International Union of Operating Engineers, and the Michigan Infrastructure and Transportation Association.

I encourage all to sign the petition online at www.gopetition.com/online/33792.html or at the www.drivemi.org website.



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