

AbdelHamid Belgaid, P.E.

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Career Objective

A responsible and challenging position in geotechnical engineering utilizing my skills in project planning, cost estimating, management of foundation design and construction services.

Education

M.S. degree, Civil Engineering Concordia, University, Montreal, P.Q. Canada

B.S. degree, Civil Engineering Sherbrooke, University, Sherbrooke, P.Q. Canada

Professional Registration

State of New Jersey, P.E. (# 24GE04386200)

Professional Affiliation

American Society of Civil Engineers

Significant Work

Design and Analysis of

- Foundations
- Piles and drilled shafts
- Settlement analysis
- Retaining walls / Slope stability
- Seepage analysis
- Dewatering
- Pavement design
- Hydrogeologic evaluation

Work History and Experience

Churchill Engineers, New Jersey (May 2010 – Present) – Project Engineer

- Garden State Parkway, Interchange 168 NBX, Washington Twp, New Jersey

The project consisted of widening of the existing northbound exit ramp at Interchange 168, reconfiguration of the ramp terminus at Washington Avenue, restriping of Washington Avenue between the Garden State Parkway and Jackson Avenue, installation of new roadway lighting facilities for the northbound exit ramp at Milepost 167.4 in the Township of Washington, and other miscellaneous improvements in Bergen County, New Jersey

- New Jersey Turnpike Authority, Memorial Bridge, New Jersey

Responsible for the construction of the suspended platform containments to complete painting work along the entire bridge. The suspended platform consists of corrugated steel decking supported by longitudinal/

transverse cables and vertical cables. Supervised the abrasive blasting operation followed by three coating consisted of primer zinc, mid coat and finish coat.

CMX Consulting, Manalapan, New Jersey (2006 – 2010) – Project Engineer

- Hudson 345 KV Power Cable, New Jersey and New York

Conducted a geotechnical engineering study, including coordination of the subsurface exploration and soil laboratory testing for 8 miles of underground power cable. Designed foundations for the electrical vaults, pile analysis and preparation of the geotechnical report.

- Wally Garage, Jersey City, New Jersey

Performed design of auger cast pile foundation for a proposed four-story garage. Conducted a geotechnical engineering study, including coordination of the subsurface exploration and soil laboratory testing, retaining wall analysis and preparation of the geotechnical report.

- Home Depot, Paterson, New Jersey

Conducted a geotechnical engineering study including, coordination of the subsurface exploration. Reviewed the analysis and construction procedure for the tie-back soldier pile wall,

- NJDOT Route 5, Palisades Park, New Jersey

Conducted a geotechnical engineering study including, coordination of the subsurface exploration and soil laboratory testing. Designed foundations for the underground detention facility, analysis of retaining walls, slope stability, sheet pile analysis and preparation of the report.

- Proposed Barbara Place Terrace, Jersey City, New Jersey

Conducted a geotechnical engineering study including, coordination of the subsurface exploration and soil laboratory testing. Performed design of foundations for several townhouses and preparation of the report.

- Ruggiero Seafood, Jersey City, New Jersey

Performed design of pile foundation for a proposed warehouse and freezer building. Estimated the settlement of the retaining wall, and planned the subsurface investigation including the review and interpretation of the soil data. Designed the pavement for the new sections of the project including writing the geotechnical report.

- Proposed River Road Development, New Jersey

Planned and supervised the subsurface exploration and lab testing. Designed the foundation for the new buildings and wrote the report.

HNTB Corporation, NJ (2004-2006) - Project Engineer

- NJTA, Interchange-12, Carteret, New Jersey

Involved in the geotechnical subsurface investigation planning and follow up. Design of foundation of the loop ramp bridge drilled shafts and toll plaza building. Completed engineering design and analysis of foundations, L-pile, axial capacity, and settlement.

- NJDOT, Route 46, Dover, New Jersey

Designed foundation of the proposed three bridges. Designed pipe piles and drilled shafts. Determined Lateral and axial analysis. Prepared geotechnical and pavement design reports.

- NJDOT, Route 1 over Shipetauken Creek, New Jersey

Rehabilitation of an existing bridge foundation and analysis of the scour effect for Shipetauken Creek. Performed determination of axial and lateral analysis.

Schoor DePalma, New Jersey (2001-2004) - Project Engineer

-PSE&G Market Street, Newark, New Jersey

Planned and supervised the subsurface exploration and in-situ testing programs. Reviewed and interpreted soil data, analyzed the sliding and stability for the proposed cofferdam including the seepage analysis and the dewatering estimation.

- NJDOT Route 440, Perth Amboy, New Jersey

Designed pile foundation for the proposed bridge, estimated the settlement of the retaining wall, and planned the subsurface investigation including the review and interpretation of the soil data. Designed the pavement for the new sections of the project including writing of reports

- Landing at Harborside, Perth Amboy, New Jersey

Completed a comprehensive geotechnical engineering study including planning and coordination of the subsurface investigation, lab testing, and interpretation of soil data, pile design, pile testing static and lateral load and PDA for different type of piles to choose the most efficient and economical pile.

- Lafayette housing project, Phases III, VI, VII and VIII, Jersey City, New Jersey

Completed a comprehensive geotechnical engineering study including: coordination of the subsurface exploration and soil laboratory, settlement analysis, testing and preparation of the report.

- NJ DOT Route 66, Neptune, New Jersey

Designed a bridge foundation including the piers and abutments. Analyzed the settlement, sliding and overturning of the abutments. Designed the pavement of the new sections, and also designed the drilled shaft for the highway signs.

- Barnegat Elementary Schools: Collins, Dunfe, Horbelt, New Jersey

Planned and supervised the subsurface exploration & lab testing. Designed the foundation for the new additions of the schools & wrote various reports for the said project.

Gentech Engineering Associates, New Jersey (1998 –2001) - Geotechnical Engineer

- Toll Brothers, Sparta, New Jersey

Involved in subsurface investigation, in-situ and lab testing, design of foundations and retaining walls. Inspected and observed the project earth work.

- Pulte Housing Development, Holmdel, New Jersey

Involved in a wide range of engineering studies including: evaluation of the foundation, settlement estimation and interpretation of laboratory and field test data. Provided recommendation for foundations,

building pads, roads and culverts. Also provided underlines for dewatering and related hydrogeologic aspects.

- Toll Brothers, Mount Olive, New Jersey

Planned and supervised the field and lab testing for the entire 400 single houses/ townhouses and roads. Also wrote the geotechnical report for the entire project.

- Mount Olive Housing Development, Kaplan, New Jersey

Performed soil investigation, field and laboratory testing. Provided recommendations for foundations, building pad and roads. Provided a solution for the cut off system between the existing ponds and the proposed detention basin, also provided recommendations for the dewatering system. Supervised and inspected various construction sites for consultants and developers including: roads/bridges, pavement construction/repairs, detention basins, dewatering, monitoring wells, subsurface exploration, piles, and earth work.

Cabinet d'Architecture et d'Urbanisme, Morocco (1995 – 1997) - Civil Engineer:

- Regional Urban Planning, Aklim, Morocco

Conducted a study of regional urban planning in Aklim, Morocco. Performed a thorough study of utility networks to determine capacity to sustain forecasted growth for twenty years. Designed numerous residential and commercial buildings.

References:

Moustafa A. Gouda, P.E., D.GE, F.ASCE. Maser Consulting P.A., Red Bank, New Jersey

James Gazzale, P.E. Dewberry, Bloomfield, New Jersey.

En-Hue Joe, P.E. Project Manager, Vibrattech Engineers, Mont Holly, New Jersey