Land Port of Entry
International Border Stations
Bridgewater, Easton & Forest City, Maine

Project Description

Pro Geotech, Inc. performed three subsurface investigations for foundation and pavement design for three international border station crossings along the United States and Canadian border in Maine. The three border stations where the Bridgewater, Easton and Forest City Stations. Proposed buildings at each of these border stations will have respective areas of 4,000, 10,000 and 6,100 square feet and will each require associated parking and roadway improvements. Pro Geotech advanced 15 test borings for structure foundation and pavement design at Bridgewater; 18 test borings for structure foundation and pavement design at Easton; and 10 test borings for structure foundation and pavement design at Forest City. The structural test borings ranged in depth from 9.5 to 32 feet and the pavement borings ranged in depth from 5.5 feet to 10 feet. A bulk sample was obtained from the shallow auger cuttings from the pavement borings at each border station to perform a California Bearing Ratio (CBR) test for pavement design at each location. Shallow foundation recommendations were provided for the structures at each site. Pro Geotech performed both classification testing and physical testing to determine the engineering properties of the soil and bedrock samples. PGI also performed corrosivity testing on the soils at each location to determine the sulfide content, chloride content, resistivity and pH of the soils.

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Performance Period:
May 2010 to June 2010

Project Costs:
$98,637

PGI's Role:
Geotechnical Exploration