



GEOD CORPORATION

Engineering • Photogrammetry • Surveying

INNOVATOR

Fall Foliage and the Flying Season!

Part of the diversity of living in the Northeast is the beauty of our changing seasons. And, perhaps the most beautiful of all four seasons, is the vibrantly colorful Fall when foliage takes on assorted shades of reds, yellows and golds.

Project Managers: these brilliant colors are your reminder that the Fall Flying Season is quickly approaching. Once those leaves have fallen, it is the best time for aerial photography projects. Generally, this is early November for the New England states and late November for areas south of Albany, New York and into New Jersey.



...if your project happens to be ...
in the Hudson Valley region...

Remember—you can always fly and map in two separate stages, thereby spreading project costs. Just outline your needs and let GEOD suggest possibilities.

Additional savings can be accomplished if your

project happens to be located in the Hudson Valley region. Please be sure to ask about special rates on our recent stock photography in that area. **Call GEOD** at 973-697-2122 to discuss your aerial photogrammetric needs.

GEOD Project: NYC Transit's Sea Beach Line

GEOD's entire menu of services was requested by New York City Transit in its project to rehabilitate nine stations and 4.9 miles of the Sea Beach Line in the Borough of Brooklyn.

GEOD is providing property boundary surveys, topographic surveys, engineering design surveys and low altitude photogrammetric mapping for

this extensive project. **Services include** establishing primary control monuments, photogrammetric control and low altitude mapping providing a base map of the stations as well as the rail line. Property surveys include records research and field investigations of 330 parcels.

Preparation of acquisition maps per MTA real estate

requirements on impacted areas are being provided. **Supplemental surveys** will include utility surveys, topographic surveys and top of rail and platform elevations and locations. **All field data** will be added to the aerial mapping and provided in MTA Micro-Station CAD standards.

GEOD offers you :

- ◇ **Photogrammetric Mapping**
- ◇ **Land & Engineering Surveying**
- ◇ **Construction Surveys**
- ◇ **Site/Civil Engineering**
- ◇ **Transportation Engineering**
- ◇ **Storm Water Management**
- ◇ **Roadway Design**
- ◇ **GIS Base Mapping**
- ◇ **Subsurface Utility Mapping**

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NJTA Section 4, Interchange 7A Widening Design Project

GEOD has been contracted to provide surveying and mapping to support the design of the Turnpike's Interchange 7A widening project.



Services include: low altitude photography, field edit surveys, bridge, pier and utility

surveys, ROW mapping and property boundary surveys.

NY State Thruway Interchange 17—18

GEOD was awarded a contract to provide digital mapping along the NY State Thruway between Interchanges 17 and 18. Services will include low altitude photography, photogrammetric ground control and base mapping of 18 miles including two service areas. The data will provide the Thruway with sufficient data to mill and repave the existing roadway with a minimum of traffic interruption.

Surveying & Subsurface Utility Mapping, Brooklyn

GEOD was contracted to provide aerial mapping, property boundary surveys and subsurface utility mark-outs to support the constructability investigation of a 20 acre site located in Brooklyn, NY. Services include horizontal and vertical control, topographic mapping, research and field surveys to determine property boundaries, utility surveys and subsurface utility mapping using ground penetrating radar (GPR).

Rt.110 Corridor Study & Design, Westford, MA



GEOD Consulting is conceptually designing approximately 1,800 ft. of highway leading to an intersection known as Minot's Corner that currently has nine approaches and may be expanded to 13 approaches - becoming Massachusetts's first intersection with a three-lane left hand turn movement.

Peak volume will be 6,074 vehicles per hour, 1,425 of which will make left hand turns toward I-495.

Praised by MassHighway as the best solution for a geometrically challenging condition, the project will also include adjustments to two Interstate highway ramp systems as well as a new nine lane approach signalized intersection.

MA Traffic Investigations



As a result of aggressive development plans on the part of pharmacy chains throughout the Northeast, **GEOD Consulting** has added CVS Pharmacy to its ever-expanding list of clients for the performance of traffic monitoring investigations. Monitoring includes peak hour traffic counts and 24 hour automated traffic recorders and will result in future traffic design solutions.

Project Spotlight:

Dorchester Bay Combined Sewer Outfall, South Boston MA

GEOD Consulting has been awarded the deformation monitoring assignment as part of the \$145 Million Dorchester Bay Combined Sewer Outfall project for the Massachusetts Water Resource Authority. The MWRA has required the contractor, Shank/Balfour Beatty, to provide deformation monitoring on thousands of points along the tunnel's route.

Throughout the tunnel drive, GEOD will be extending underground control on approximately 2000 linear feet intervals or when deemed necessary. Continuously, points will be installed by the contractor on approximate 500 foot centers during tunnel boring machine operations for the laser guidance system. GEOD will survey these points (horizontal and vertical) and is expected to issue results within 24 hours of survey completion. These results will be used to make laser and tunnel boring machine drive corrections, if necessary. The work will be performed on back shifts during non-mining activities and swing and/or night shifts.

The first order leveling has commenced and seven deep bench-marks have been established along the 17 foot diameter tunnel's 11,000 foot run length. The construction is expected to start in October of 2007 and last approximately two years.



Meadowlands Stadium, NJ



Layout, Inc. continues to provide all construction surveys to support the new Meadowlands Stadium. Survey includes setting horizontal and vertical control, utility mapping and new drainage and road improvements.

Randall's Island, NY

Layout contracted to provide topographic mapping and construction staking at 63 different areas of Randall's Island Sports Field for the NYC Parks & Recreation project. Areas include baseball and soccer fields, utilities and roadway improvements.

Reconstruction of Essex Street Bridge Over Rt. 17, Bergen Co., NJ



Layout is responsible for all construction stake-out as well as related ramps, curbs, barriers, utilities, walls and other structures incident to the NJDOT's reconstruction of the new Essex Street Bridge, Rt. 17 in Bergen Co., NJ. The project is intended to ease traffic congestion, facilitate economic development and improve safety in Bergen County.



Naval Station at Lakehurst, NJ

Layout has been contracted to provide all construction surveys to support the creation of a new runway for C-17 Transport Aircraft at The Naval Air Engineering Station at Lakehurst, NJ. Under a separate contract at the same location, it is providing the staking and layout to support the construction of a Consolidated Logistics and Training Facility for the New Jersey National Guard. Services include recovering



and extending the existing control utilizing GPS, foundation location survey, staking of utilities, new drainage system, curbs, grading, landscaping, irrigation and other related work.

Kohl Industrial Park, Rockland Co., NY

Greater Hudson Valley has been responsible for the overall site design of The Kohl Industrial Park in Rockland County, NY. The Park is a multi-million dollar development project to include office and warehousing space with associated parking and recreational areas. GHV services included: site drainage, culvert and basin sizing, quality controls, temporary erosion and sediment control features (to be utilized during design and construction phases), postconstruction (permanent) erosion and sediment controls, and stormwater pollution control operations.

Four Engineers... Spring 2007 Contest Results

The correct response would have been Engineer C—When Engineer D did not respond after one minute (being the only one who could see two hat colors, C could safely assume he (D), had to see two different color hats on Engineer B and Engineer C, being then unable concretely identify his own.



From a random drawing of the numerous correct responses, Corey Packard of Dresdner Robin Environmental was selected and received a \$200.00 Best Buy gift card.

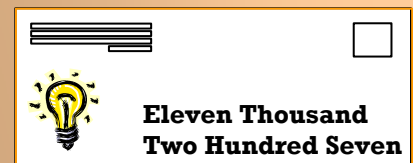
Awards & Achievements

GEOD Consulting welcomes Ian Rubin, P.E. to its expanding MA offices.

GEOD Corporation's Kevin Hanna continues his NJPLS involvement by co-initiating the formation of a Surveying Student Chapter at NJIT. In his spare time, Kevin obtained his B.S. from NJIT in Engineering & Surveying Technologies. Kevin's dedication to both our youth and the surveying profession is a continued source of pride for GEOD.

Layout's contribution to Cerebral Palsy by way of a donation of services to the Cerebral Palsy NJ Horizon School expansion project in Livingston, NJ will be recognized by a plaque in its honor to be located in front of the school.

Greater Hudson Valley's Tom Purvis is congratulated on achieving the prestigious P.E. designation. His hard work and dedication have paid off!



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**PROVIDING ENGINEERING, SURVEYING & PHOTOGRAMMETRY
SERVICES SINCE 1961**

Fall, 2007 Puzzle: Decode the Sequences to Find a Common Surveying Word

GEOD's Fall Puzzle Requires that you Decode the following sequences to arrive at a **common surveying word**:



Hints are located in the body of this newsletter.

*Pitkin/Wyona, Liberty/Wyona,
Liberty/Miller, Glenmore/Miller,
Glenmore/Wyona.*

*Glenmore/Van Siclen, Glenmore/
Schenck, Belmont/Schenck, Belmont/
Van Siclen, Glenmore/Van Siclen.*

Pitkin/Barbey, Sutter/Barbey.

*Blake/Jerome, Belmont/Jerome,
Blake/Ashford, Belmont/Ashford.*

*Sutter/Cleveland, Sutter/Linwood;
Sutter/Elton, Dumont/Elton.*

Your answer should be emailed to:
jmaas@geodcorp.com

The contest ends November 29, 2007. The winner will be chosen by random drawing from all of the correct responses. The person whose name is drawn from the group of correct entries will receive a \$200 gift card from Best Buy.

The results and winner will be posted on GEOD's website on November 30, 2007.



...a common surveying word.