

NJ Dept. of Transportation On-Call Services for Aerial Photogrammetric Mapping and Land Surveying



— OWNER

NJ Dept. of Transportation

— LOCATION

New Jersey Statewide

— SERVICES PROVIDED

Aerial Photogrammetric Mapping

Primary Control Surveys

Secondary Control Surveys

Photogrammetric Control Surveys

LiDAR

3D Laser Scanning

Right-of-Way Establishment

Topographic Mapping

Field Edits of Photogrammetric Mapping

Supplemental Field Surveys

Under three on-call contracts with the New Jersey Department of Transportation (NJDOT), including a statewide contract for aerial photogrammetric mapping, a statewide contract for General Field Survey Services, and a federally funded statewide contract for General Field Survey Services, each of which is a three-year term contract.

Beginning in 2015, GEOD began working closely with NJDOT staff and other consultants to develop a multi-faceted approach to providing accurate topographic mapping and surface file preparation to support rock fall mitigation engineering along several major highway corridors throughout northern New Jersey. As of mid-2016, over a dozen of these large mapping projects of highway corridors have been completed with this approach using a combination of aerial photogrammetry, aerial LiDAR and terrestrial high definition laser scanning.

As part of the ongoing three-year contracts, GEOD provided a multitude of professional services including primary & secondary control surveys; photogrammetric control surveys; acquisition and processing of aerial LiDAR data; aerial photogrammetric mapping; right-of-way establishment; right-of-way acquisition mapping including preparation of ETMs, GPPMs, IPMs and written descriptions; profile and cross-section generation; topographic mapping including the preparation of DTM surface files; orthophotography and DEM preparation; field edits of photogrammetric mapping;

and supplemental field surveys. All mapping was provided to NJDOT in MicroStation V8 using NJDOT Standard Article 51 to meet or exceed National Map Accuracy Standards, and survey control is provided in accordance with NJDOT Standard Article 44.