

Maine Turnpike Authority Survey Guidelines

Survey Guidelines for Boundary/Row Surveys

Property Plans Required

Prior to interests in real property being conveyed to or from the Maine Turnpike Authority (Authority) a plan of the transfer shall be prepared showing the survey of the conveyed property. The plan shall show the legal boundary of the parcel, the monuments set to mark the boundary on the face of the earth, adjoining interests, structures, watercourses, encroachments, areas of overlap and deficiency, any evidence of historical boundaries or occupation. The work shall meet the requirements of the Maine Board of Registration for Professional Land Surveyors applicable at the time of the Survey, and be embossed with the seal and signature of the Maine Professional Land Surveyor under whose direct supervision the work was done.

Accuracy of Data

Consultants supplying data for Property or Right of Way Plans of Maine Turnpike Authority interests in land must supply survey data that meets the positional accuracy requirements set forth in "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" dated February 23, 2011 and published by the American Land Title Association and the National Society of Professional Surveyors.

Plans

Plans shall be prepared in accordance with the MaineDOT CAD Standards with Authority border sheets and

1. Plans shall be compiled at an appropriate scale for a 24x36" sheet size (Architectural "D") or approved alternative, with existing elevation contour lines plotted on a 1' interval.
2. Plans shall show all temporary benchmarks and the Maine State Plane Coordinate Grid.
3. All callout text shall be 1/8" in height.
4. All dimensions shall be displayed in Imperial Units. Distances shall be stated to the nearest hundredth of a foot and angles in DMS format

Deliverables

The Consultant shall deliver to the Authority the following items for Property Plans:

1. 24x36 Recordable Property plan with embossed seal and signature
2. Certification on the plan attesting to the accuracy of the data and notation regarding the date of monument installation and description.
3. North, East, Elevation, description data in CSV point file format on CD.
4. Autocad or Bentley Microstation file of raw and adjusted data
5. Recordable mylar of the plan

Design/Construction Project Surveys

Construction Plans Required

Prior to construction projects on land of the Maine Turnpike Authority, plans of the proposed construction will be prepared based on existing conditions data supplied by consultants engaged in the lawful practice of their profession.

Accuracy of Data

Consultants supplying data for Project Construction Plans of Authority interests in land must supply survey data that meets the positional accuracy requirements set forth in "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys" dated February 23, 2011 and published by the American Land Title Association and the National Society of Professional Surveyors. This data includes, but is not limited to specific project requirements as specified in the Scope of Services.

Survey Control

Survey shall be tied to the Maine State Plane Coordinate System. Vertical control must reference to the NAD83 and North American Vertical Datum (NAVD 1988). All elevations shall be to the nearest hundredth of a foot.

Plans

Plans shall be prepared in accordance with the MaineDOT CAD Standards with Authority border sheets and

1. Plans shall be compiled at a scale of 1"=25' with existing elevation contour lines plotted on a 1' interval.
2. Plans shall all temporary benchmarks and the Maine State Plane Coordinate Grid.
3. All callout text shall be 1/8" in height.
4. All dimensions shall be displayed in Imperial Units. Distances shall be stated to the nearest hundredth of a foot and angles in DMS format.

DELIVERABLES:

The Consultant shall deliver to the Authority the following items for Construction Plans:

1. Sealed and signed reproducible plan which contains all criteria noted above.
2. Electronic .DWG file or .DGN file (Microstation is preferred).
3. An electronic .TXT file containing survey point data in comma delimited format as follows: Point number, Northing, Easting, Elevation, Description, code.
4. Electronic copy of all project files including, but not limited to surface triangles, intelligent contours, points and fault lines. Also include Bentley InRoads and/or Autodesk Civil 3D data files.
5. All files shall be submitted electronically on CD and shall be in their natural or expanded format. All information shall be compatible to either Autodesk Civil 3D or Microstation Version 8.