

## SPECIFICATIONS OF WORK TO BE PERFORMED

The Contractor agrees to complete project(s) described below in accordance with specifications and conditions set forth herein.

1. Scope of Work: The Contractor shall provide the following:

a. Research Standards

i. Prepare a written survey abstract based on research of land records, and other pertinent documents pertaining to the subject property and all pertinent abutters.

1. At a minimum, research shall be sufficient to enable the surveyor to formulate a legal defensible opinion as to the location of the title boundaries of the subject property, and to determine if the title boundaries are in agreement with, or in conflict with, title boundaries of pertinent abutters back to the key deed.

b. Field Work Standards

- i. Perform field investigation sufficient to either recover deed call monuments, or to determine if such monuments are lost or obliterated.
- ii. Make all measurements necessary to accurately locate all existing monuments and physical evidence pertinent to the location of the subject property. Unless otherwise noted, all measurements must meet the accuracy standards for Rural Surveys as defined in Section 5.5 (B) (1) of the board rules.
- iii. Make necessary observations to orient the survey to Vermont Grid North in current datum with survey grade equipment.
  1. When the surveyor is to include the use of GNSS observations other than to orient the project to the current datum, include a plan and details of standards of use to be discussed with the Lands and Recreation Survey section staff.
- iv. Set all monuments necessary to perpetuate the location of lost or obliterated corner monuments and all new corner points. Unless otherwise agreed to by the Contractor and State, in writing:
  1. All monuments set on the existing exterior boundary shall be 5/8" diameter rebar (aka #5 bar) furnished by the Contractor and must be topped with caps provided by the State.
  2. Rebar must be a minimum of four (4) feet in length and must be driven flush with the ground.
  3. All caps must be visible and shall not be set below the surface of the ground.
  4. Contractor shall set Carsonite markers with "Vermont State Lands Boundary" decals as witnesses to all corners unless otherwise requested. Carsonite markers shall be furnished by the State.

c. Plat Standards

- i. Bearings and distances of all surveyed lines, new and existing boundary lines, and tie lines. Bearings must be referenced in Vermont State Plane Grid North and must be based on observations acquired as part of this contract.
- ii. Location of all boundary monuments recovered, located, set or re-monumented during the survey.
- iii. Monuments shall be noted as “found” or “set”, and shall be clearly described including:
  1. Material
  2. Size (cylindrical sizes shall be reported as inside or outside diameter)
  3. Shape
  4. Identifying marks or numbers
  5. Position and stability including its height above or below ground
- iv. Calculated acreage of the subject property to appropriate accuracy, as determined by the State and set forth in the Purchase Order (PO).
- v. Location of visible encroachments, streams, roads, or trails crossing over all surveyed boundaries.
- vi. Location of public and private rights-of-way, easements and rights which are reasonably known or observed that encumber or benefit the land surveyed
- vii. North arrow based on Vermont State Plane Coordinate System showing magnetic declination at time of survey.
- viii. Label with Vermont State Plane Grid coordinates four outermost corners of the subject parcel.
- ix. Make and model of equipment used in field work, dates of use, dates of observations and CORS Stations used in conjunction thereof.
- x. Final plat drawn on an appropriate scale, as determined by the State and set forth in the PO, including a title box and title, in the form provided by the State.
- xi. The plat shall contain the Surveyor’s certification stating that all measurements meet or exceed the Technical Standards for Rural Survey’s as defined by Board Rules.
- xii. Produce a recordable Mylar that meets all statutory requirements for recording, a PDF of signed and sealed Mylar and two final plats in a hard copy format with seal and signature affixed.

4. Additional Requirements:

- a. All documents including, but not limited to, maps, plats, survey data, survey abstracts, field notes, gnss observations raw data, adjustment reports and survey report must be delivered uncopyrighted in workable file formats (.doc, .txt, .raw, .asc, .dwg, rinex, .pdf). All maps and plats shall be provided in a CAD or related file format.
- b. Information needs to be submitted in the file architecture provided by the State, a preliminary plat to be provided to the State for approval before finalization.
- c. Upon delivery all documents shall become the sole property of the State. The State, at its sole discretion, shall have the right to use, reproduce and disseminate any documents, in any manner, and to whomever it so chooses. This right shall include, but is not limited to, the right to use all information, data or products obtained or produced by the Contractor to create whatever documents, maps or plats required.
- d. The Contractor may be asked to prepare a compilation map using existing survey maps and other information, or other survey related work, that might not encompass a completely new survey. In which case all the preceding information applies, as directed by the State.
- e. Blazing will be considered on a project-by-project basis. If the Contractor is asked to blaze a boundary of a specific property, the State’s Boundary Line Blazing Procedures shall be used.
- f. Provide a legal description of project if requested.