



# MUIR CONSULTING, Inc.

Land Surveying ♦ G.P.S. ♦ Planning

## Exhibit "1"

### TOPOGRAPHIC SURVEY REQUIREMENTS

Version 2011-01

#### DRAWING REQUIREMENTS:

- 1. Provide survey drawing at 1" = \_\_\_\_\_ feet.
- 2. Orient drawing with north pointing to  top,  right edge,  left edge or  per attached sheet.
- 3. Sheet size:  8 1/2"x11"  11"x17"  24"x36"  30"x42"  Other \_\_\_\_\_
- 4. Drawing shall include title, north arrow, graphic scale, legend, and surveyor's statement. Provide basis of bearings and benchmark statement, if applicable.
- 5. Drawing shall include vicinity map.
- 6. Digital aerial photograph of the site will be required. \$
- 7. Provide \_\_\_ copies of survey.  Rolled or  Folded. Special Shipping? \_\_\_\_\_
- 8. Provide in Autocad dwg format on  floppy disk,  CD-ROM,  email or  PDF.  
Email account: \_\_\_\_\_
- 9. Other (*Specify*) \_\_\_\_\_

#### BOUNDARY REQUIREMENTS:

- 1. Boundary Data
  - A. Show record boundary. No warranties or guarantees are expressed or implied to the accuracy of the boundary.
  - B. Show resolved boundary and set missing corners. (*Note: a Record of Survey or Corner Record is required by law.*) \$\$\$
- 2. Show easements of record. (*Note: a title report will be required prior to beginning the job.*)
- 3. Provide the names and recording information for adjoiners.
- 4. Show land area in  square feet and/or  acres.
- 5. Identify and show  setbacks,  height, and/or  bulk restrictions.
- 6. Other (*Specify*) \_\_\_\_\_

#### PLANIMETRIC REQUIREMENTS:

- 1. Show streets, median islands, and sidewalks.
- 2. Show poles, signs, yard lights, pull boxes, meter boxes, vaults, fire hydrants, and other structures.
- 3. Show all walkways, patios, pools, retaining walls, landscaping, and pathways.
- 4. Show all trees over \_\_\_ inches in diameter. Show type of tree, if known.
  - A. Show drip line. \$
- 5. Show all buildings, fences, decks, and other structures.
  - A. Show overhangs / eaves. \$
  - B. Show ridge lines, if accessible. \$
  - C. Height of buildings. \$
- 6. Show position of adjacent structures and/or physical improvements within \_\_\_\_\_ feet of site boundary.
- 7. Show all rivers, creeks, streams, ponds, or lakes on or adjacent to site boundary.
- 8. Show parking areas, striping, type, and number of spaces.
- 9. Show all driveways, curb cuts, roads, and access to public ways.
- 10. Square footage of buildings.
  - A. Exterior dimensions of all buildings. \$
- 11. Other (*Specify*) \_\_\_\_\_

TOPOGRAPHICAL REQUIREMENTS:

- 1. Datum.
  - A. City datum.
  - B. County datum.
  - C. USGS datum.
  - D. NGVD88
  - E. Existing datum (e.g., finish floor). Please describe \_\_\_\_\_
- 2. Plot contours at \_\_\_\_\_ foot intervals.
- 3. Spot elevations at street intersections, at \_\_\_\_\_ feet intervals at top of curb, sidewalks, and edge of pavement.
- 4. Spot elevations at toes, tops, and grade changes.
- 5. Elevations at  lowest finish floor or  specified finish floor. \_\_\_\_\_
- 6. Spot elevations at \_\_\_\_\_ foot grid.
- 7. Establish Project Benchmark. Location: \_\_\_\_\_
- 8. Other (*Specify*) \_\_\_\_\_

UTILITY REQUIREMENTS:

- 1. Sanitary Sewer (on or serving property)
    - A. Location, rim elevation (if applicable).
    - B. Invert, flow direction, size, and type of pipe. \$
    - C. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
  - 2. Storm (on or serving property)
    - A. Location, rim elevation, grate elevation (if applicable).
    - B. Invert, flow direction, size, and type of pipe. \$
    - C. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
  - 3. Water (on or serving property)
    - A. Surface Observation.
    - B. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
    - C. Show nearest fire hydrant that serves property.
  - 4. Gas (on or serving property)
    - A. Surface Observation.
    - B. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
  - 5. Electric (on or serving property)
    - A. Show poles, guy wires, vaults, pads.
    - B. Show overhead wires.
    - C. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
  - 6. Telephone (on or serving property)
    - A. Poles, guys wires, pads, boxes.
    - B. Show overhead wires.
    - C. Paint marks as provided by U.S.A. or other. \_\_\_\_\_
  - 7. Other (*Specify*) \_\_\_\_\_
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**NOTE: \$ indicates items that usually require additional time and fees. Please call if you have questions.**