

PART 1 - GENERAL

1.1 REFERENCES

- .1 Departmental Representative's identification of existing survey control points.

1.2 MEASUREMENT FOR PAYMENT

- .1 No measurement for payment will be made under this section. Include costs in items where required

1.3 QUALIFICATIONS OF SURVEYOR

- .1 Qualified registered land surveyor (or approved equivalent), licensed to practice in Place of Work, acceptable to Departmental Representative.
- .2 Same surveying company should be used for all work within the limit of Work.

1.4 SURVEY REFERENCE POINTS

- .1 Survey data for this project was generated using UTM (Universal Transverse Mercator) geographic coordinate system.
- .2 Existing base horizontal and vertical control points are designated on drawings.
- .3 Locate, confirm and protect control points prior to starting site work. Preserve permanent reference points during construction.
- .4 Make no changes or relocations without prior written notice to Departmental Representative.
- .5 Report to Departmental Representative when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
- .6 Require surveyor to replace control points in accordance with original survey control.

1.5 SURVEY REQUIREMENTS

- .1 Establish two permanent bench marks on site, referenced to established bench marks by survey control points. Record locations, with horizontal and vertical data in Project Record Documents.
- .2 Establish lines and levels, locate and lay out, by instrumentation
- .3 Stake for grading, fill and topsoil placement.

1.6 EXISTING SERVICES

- .1 Before commencing work, establish location and extent of service lines in area of Work and notify Departmental Representative of findings

1.7 LOCATION OF EQUIPMENT AND FIXTURES

- .1 Location of equipment, fixtures and outlets indicated or specified are to be considered as approximate.
- .2 Locate equipment, fixtures and distribution systems to provide minimum interference and maximum usable space and in accordance with manufacturer's recommendations for safety, access and maintenance.
- .3 Inform Departmental Representative of impending installation and obtain approval for actual location.
- .4 Submit field drawings to indicate relative position of various services and equipment when required by Departmental Representative.

1.8 RECORD

- .1 Maintain a complete, accurate log of the Work as it progresses.
- .2 On completion of Work, produce as built plan showing dimensions, locations, angles and elevations of Work.
- .3 Record locations of maintained, re-routed and abandoned service lines.

1.9 SUBMITTAL

- .1 Submit name and address of Surveyor to Departmental Representative.
- .2 On request of Departmental Representative, submit documentation to confirm accuracy of field work.
- .3 Submit certificate signed by surveyor certifying and noting those elevations and locations of completed Work that conform and do not conform to Contract Documents.
- .4 Submit digital copies in Autocad DWG and PDF file formats on completion of survey.
- .5 Include digital and print copies with close out documents.

1.10 SUBSURFACE CONDITIONS

- .1 Promptly notify Departmental Representative in writing if subsurface conditions at Place of Work differ materially from those indicated in Contract Documents, or a reasonable assumption of probable conditions based thereon.
- .2 After prompt investigation, should the Departmental Representative determine that conditions do differ materially, instructions will be issued for changes in Work as provided in Changes and Change Orders.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

***** END OF SECTION *****