

PART 1 - GENERAL

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| <u>1.1 QUALIFICATIONS
OF SURVEYOR</u> | .1 | Qualified registered land surveyor, licensed to practice in Place of Work, acceptable to Departmental Representative. |
| <u>1.2 SURVEY
REFERENCE POINTS</u> | .1 | Existing base horizontal and vertical control points are designated on drawings. |
| | .2 | Locate, confirm and protect control points prior to starting site work. Preserve permanent reference points during construction. |
| | .3 | Make no changes or relocations without prior written notice to Departmental Representative. |
| | .4 | Report to Departmental Representative when reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations. |
| | .5 | Require surveyor to replace control points in accordance with original survey control. |
| <u>1.3 SURVEY
REQUIREMENTS</u> | .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 and landscaping features. |
| | .4 | Stake slopes and berms. |
| | .5 | Establish pipe invert elevations. |
| | .6 | Stake batter boards for foundations. |
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| 1.3 SURVEY
REQUIREMENTS
(Cont'd) | .7 | Establish foundation column locations and floor elevations. |
| | .8 | Establish lines and levels for mechanical and electrical work. |
| 1.4 EXISTING
SERVICES | .1 | Before commencing work, establish location and extent of service lines in area of Work and notify Departmental Representative of findings. |
| | .2 | Remove abandoned service lines within 2 m of structures. Cap or otherwise seal lines at cut-off points as directed by Departmental Representative. |
| 1.5 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. |
| 1.6 RECORDS | .1 | Maintain a complete, accurate log of control and survey work as it progresses. |
| | .2 | On completion of foundations and major site improvements, prepare a certified survey showing dimensions, locations, angles and elevations of Work. |
| | .3 | Record locations of maintained, re-routed and abandoned service lines. |
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- 1.7 ACTION AND
INFORMATIONAL
SUBMITTALS
- .1 Submit name and address of Surveyor to
Departmental Representative.
- .2 On request of Departmental Representative,
submit documentation to verify accuracy of
field engineering work.
- .3 Submit certificate signed by surveyor
certifying and noting those elevations and
locations of completed Work that conform and
do not conform with Contract Documents.

PART 2 - PRODUCTS

- 2.1 NOT USED .1 Not Used.

PART 3 - EXECUTION

- 3.1 NOT USED .1 Not Used.