

## **TOWN OF PONOKA ENGINEERING DRAWING SUBMISSION REQUIREMENTS**

The drawings submitted must be legible, referenced with street names, dimensioned to accurately depict the development in relation to the immediate location, and drawn to a suitable metric scale (e.g. 1:500). At a minimum, the drawings listed below should be included in the submission.

### **1. Existing Conditions Plan**

At a minimum the Existing Conditions Plan should include the following information for the subject site and up to 20 metres into adjacent properties:

- Existing topography (contours, spot elevations, labels, etc.),
- Full width of adjacent public roadways including sidewalks, trails, curbs, driveways, etc.,
- Existing surface features (e.g. building foot prints, sidewalks, curbs, power poles, driveways, hydrants, water valves, catch-basins, manholes, etc.),
- Existing underground infrastructure (water mains/service, sanitary main/service, storm pipes),
- Existing shallow utilities including overhead and underground and designated as such (e.g. power lines, gas lines, cable TV service, telephone service, etc.),
- Dimensions of the property along all property lines,
- Any unusual and/or site-specific conditions,
- The location of existing and proposed transit stops on or near the property,
- All existing survey control stations and markers, and
- Drainage patterns and storm drainage detention locations.

### **2. Site Grading Plan**

At a minimum, the Site Grading Plan should include the following information for the subject property and the adjacent public properties:

- Proposed grading of the entire site (contours, elevation labels, slope labels, etc.);
- All existing surface features and infrastructure to remain;
- All proposed surface improvements; and
- Elevations of the adjacent roadways, sidewalks, boulevards, and properties.

### **3. Utilities Plan**

At a minimum, the Utilities Plan should include the infrastructure details, location, and elevations of all existing and proposed overhead and underground utilities that are located on the subject

property and within the adjacent public properties. This includes, but is not limited to the following:

- Water mains, hydrants, valves;
- Sanitary sewer mains, manholes;
- Storm sewer mains, manholes, catch basins, orifices;
- Storm water management features; and
- Shallow utilities.

Pipe size, length, slope, and material are required for all deep utilities. Anticipated water demands and sanitary sewage flowrates for the site expressed in l/s or m<sup>3</sup> /s may be tabulated in the legend, if required.

#### **4. Storm Water Plan**

At a minimum, the Storm Water Plan should include the following information for the subject property and the adjacent public properties:

- Storm sewer mains, manholes, catch basins, orifices, ponds, etc.;
- Proposed contours;
- Trapped low areas, depths, volumes, and elevations;
- Major drainage spill routes;
- Catchment boundaries (including building roofs) and outlets;
- Finished floor elevation of buildings;
- Invert and rim elevation at all manholes; and
- Storm water pipe alignments.

In support of the Storm Water Plan, the following information is also required:

- Storm water management calculations clearly demonstrating that the proposed onsite storm system is restricting release rates to approved flow rates;
- Trapped low information, orifice sizing, assumptions, and calculations including high water level, volume detained, and ponding depth(s).