GREEN INFRASTRUCTURE DRAWING REQUIREMENTS (Draft - Will be updated for Successful Vendor)

Green Infrastructure design drawings to be arranged in a separate drawing package.

Cover Sheet

- Site Plan Overview
- Full view of all GI scope
- GI scope with system numbers and/or names
- Surface features (property lines, trees, transportation, streets)
- Key Plan (Location Map)
- Roads and property lines only
- Drawing Index, Full Drawing Set Legend

Notes Page

General Notes, Green Infrastructure Material Notes, Environmental Notes, Where Applicable:

- Tree Protection, Utilities Notes, Traffic Management, Roadworks, Key Hold and Witness Points
- Material Submission Expectations

ESC and Tree Protection Plan

- Tree preservation and protection plans to evaluate the impact of the GI practices on existing trees and the necessary protection measures
- Sediment and Erosion control Plan

Utility Coordination Plan

- GI practice boundary, surface content – Streets, Landscaping, etc., Labels for all utilities
- Distances to utilities
- Between utility and nearest vegetated area or perforated distribution pipe)
- Between utility and property line
    - Notes re: utility locates, excavation, and protection
    - Notes re: references to main consultant drawings (later)

Subsurface Plan and Profile (Scale 1:50);

1. Plan

- Subsurface materials in system (pipes, soil cells, etc.) + labels, Stationing should align between plan and profile, Cut lines and adjacent sheet labels on cut-lines, Schedule of Quantities
- Stationing, Dimensions for pipes, materials, GI CB grades and inlet grades

2. Profile

- Subsurface materials in system (pipes, soil cells, etc.) + labels, Stationing should align between plan and profile, Cut lines and adjacent sheet labels on cut-lines, Schedule of Quantities

3. Stationing, dimensions of relevant features

- Elevations and dimensions should be provided to show the depth of all layers/media within the GI system

- Detailed design for utility crossings and mitigation measures including all CoV utilities and 3rd Party utilities. (at 50%)
- Utility crossings (box for bedding when crossing is in GI). Pipe bedding material to remain undisturbed when located in GI. Utilities within 1 meter depth of subgrade of GI system to be shown. Utilities deeper than 1 meter below GI subgrade shall be called out with a note or diagram
    - Grades on profile
    - Elevation labels
- Subsurface grades of materials
- Sediment pad elevations
- Pipe inverts
- Inlet/outlet structure/CB rim and inverts
- Cleanout lid elevation
- Monitoring well lid elevation

Surface/Grading Plan (Scale 1:100 or 1:125)

- Landscape Layout Plan and Grading Plans for all proposed rainwater management practices including drainage pattern, catch basins, GI sumps, inlet/outlet, sediment pads or weir structures if needed. (at 50%)
- Surface materials for GI, Schedule of quantities, No pipes, No soils, Cleanout lid, CB lid + labels + note, Practice ID, Trees, Dimensions, Labels for all materials, Stationing, Curbs and banding – banding should be labelled, Inlets, Spill/rim elevations, Finish grade of each grading transition, Perimeter grades.

Contributing Drainage Plan

- Detailed drawings for proposed GI Practices to include inflow locations, area and depth, flow dissipation, soil specification, ponding depth, soil depth, safe overflows, sub-drains if needed and clean out locations.
- CB Table
    - Consistent CB numbering between GI, Sewers and Streets
    - Table based on Utility Tie-ins (Sewers, GI, Streets)
    - Rim and Tie-in inverts
    - Existing CB, or proposed
- Key Plan, Contributing drainage area boundary for each CB/inlet and area label, GI boundary, Asset ID and area

Planting Plan or Tree Trench (Bioretention)

- Plant list and quantities, Planting layout plan, Plant details, Soil depth plan Details/Cross-Sections
- Utility protections XS, Cleanouts, Monitoring wells, Distribution Pipe, GI banding, GI CB with trapping hood, Permeable paver XS, Tree pit XS, Sediment Pad, Weirs (reinforcement design), Compost Socks

Generic/All Drawings

- No street paint lines, Legend, Key Plan on top left, North Arrow, Drawing scale to be determined based on project needs, Title Block, Project Title, Sheet Name and Number, Revision number.