Bell

Computer Aided Design (CAD) STANDARDS

Version 8.0.1

GUIDE

Prepared by BGIS | Workplace Solutions Team in partnership with BELL Canada.
This document is a set of CAD Drawing Standards and Submission requirements to be utilized by all parties creating or modifying Bell Canada facilitates drawings for submission to Bell Canada's Drawing and Provider, BGIS.

BGIS

TABLE OF CONTENTS

1.0 DRAWING FORMAT & NAMING CONVENTION 4
2.0 MASTER DRAWINGS 5
3.0 NUMBERING gUIDELINES 6
4.0 LAYER GUIDELINES 7
4.1 Architecture 8
4.2 Civil Engineering, Site Design and Landscape Architecture 10
4.3 Electrical 15
4.4 General 20
4.5 Mechanical 21
4.6 Interior Design 24
4.7 Legal Land Surverying 25
4.8 Structural 26
5.0 LAYER FIELD DESCRIPTIONS 28
5.1 DISCIPLINE Field 28
5.2 GROUP Field 28
5.3 SINGLE LAYER Field and First Layer Name Extension 31
5.4 SECOND LAYER Name Extension 36
6.0 SYMBOLS & GRAPHICS 37
7.0 COLOUR CODES 39
8.0 DELIVERY OF DRAWINGS 40
9.0 APPENDIX 41
9.1 ABOUT BELL CANADA'S ARCHIVES 41
9.2 GENERAL NOTES/REMINDERS 42
9.3 FREQUENTLY ASKED QUESTIONS 43
9.4 CHECKLIST 44

INTRODUCTION

(PSPC) National CADD Standard

PSPC CAD Toolkit

This document outlines the **Bell Canada CAD Standards**, which are to be used as guidelines by all consultants preparing drawings for BGIS on behalf of Bell Canada. The purpose of this document is to establish **consistent policies and procedures** for the production and submission of project as-built drawings, in alignment with the **Public Services and Procurement Canada (PSPC) National CADD Standard**.

To ensure compliance with evolving industry practices, this document will be **periodically updated** to reflect changes in technology, BGIS protocols, Bell Canada policies, and PSPC standards.

The **PSPC CAD Toolkit**, which supports compliance with the Public Services and Procurement Canada (PSPC) National CADD Standard, is available for download from the Autodesk App Store:

🔗 PSPC CAD Toolkit on Autodesk

All tools required to implement **Bell Canada's CAD standards**—including title blocks, menus, standards (PDF version), legends and symbols, CTB files, and LAS files for each discipline—can be found on the BGIS website:

🔗 https://www.bgis.com/ca/bellcanadacad.htm
🔒 Password: **rp1**

For all questions related to standards, please do not hesitate to contact us at the following coordinates:

Bell Drawing & Occupancy Team
5099 Creekbank, B3
Mississauga, ON, L4W 4N2

BellDrawings@bgis.com

1.0 DRAWING FORMAT & NAMING CONVENTION

All Bell Canada facilities drawings must be produced and maintained in the native AutoCAD environment, saved as DWG files compatible with AutoCAD 2010 or later. Drawings are to be developed in model space at true scale and coordinate location, with paper space reserved exclusively for layout and print preparation.

- **File Format:** Only native AutoCAD DWG files (version 2010 or later) are accepted for submission. Alternative formats such as DXF, DWF, and PDF are not permitted.
- **Entity Properties:** All drawing entities must utilize the "ByLayer" property for both colour and line weight to ensure consistency and compliance with PSPC standards.
- **Block Creation:** All blocks must be created on layer "0" and inserted into the appropriate discipline layer. Nested blocks are prohibited. Blocks must not be exploded or mirrored, preserving the integrity of standard elements.
- **Measurement System:** All drawings must be produced using the metric system (decimal, millimeters). Imperial units are not permitted.
- **External References:** Submitted drawings must not contain external references (Xrefs). Use the
- bind->insert command to embed external references.
- **Drawing Purge:** Prior to submission, drawings must be purged of all unused blocks, layers, and embedded attributes, including material, pricing, or catalog information—especially those originating from manufacturer-supplied furniture blocks.
- **Sheet Submission:** Each drawing sheet must be provided as an individual DWG file. For multi-sheet projects, submit each sheet separately (e.g., a 15-sheet project requires 15 DWG files plus a title page).
- **Title Block Standard:** Only official Bell Canada title blocks, available via the BGIS Bell Canada CAD Tools (password: rp1), are permitted. These must be used for all projects to ensure compliance with Bell Canada and PSPC requirements.
- **File Naming Convention:** File names must follow the prescribed format: project number, discipline, and page number, as detailed in this document.

Project number, discipline, page number

Title pages will be excluded from the sequence named 00

MECHANICAL PROJECT	ELECTRICAL PROJECT	ARCHITECTURAL PROJECT	FURNITURE PROJECT
10065837m00	10065837e00	10065837a00	10065837fu00
10065837m01	10065837e01	10065837a01	10065837fu01
10065837m02	10065837e02	10065837a02	10065837fu02
10065837m03	10065837e03	10065837a03	
10065837m04	10065837e04	10065837a04	
10065837m05	10065837e05	10065837a05	

2.0 MASTER DRAWINGS

Master drawing sets for Bell Canada facilities—including architectural, furniture, mechanical, and electrical (with single line diagrams)—must be prepared as separate AutoCAD DWG files for each discipline. Combined drawings in a single file are not permitted.

At the beginning of a project, the Bell Drawing and Occupancy team will provide, upon request, a complete or partial drawing set. If no existing set is available, the architectural master plan will be supplied as the basis for further development. The intent is to either establish a new master plan or update existing master plans using project-specific information, ensuring all work references the provided architectural master plan.

Updates to master drawings must adhere to the following requirements:

- The point of origin (0,0,0) must be established at the center of the drawing environment. This origin is essential for maintaining alignment across all disciplines and title blocks.
- The architectural master plan must be incorporated into each discipline's drawing using the
- 'Bind->Insert' command.
- Title blocks must be placed in 'Paper Space' view, and all drawings must be saved in AutoCAD 2010 or later versions.
- Ductwork must be depicted in full, using two lines to represent its entirety, in line with PSPC drafting conventions.
- The project area must be clearly delineated in each drawing, either by applying a revision cloud or by hatching areas not included in the contract scope.
- All master drawings must comply with the layer naming and usage guidelines specified in Section 4.0 of this standard.

3.0 NUMBERING GUIDELINES

The following guideline is to be applied when preparing, updating, or modifying architectural floor plans that include rooms and door identifiers.

Verification of Existing Door Numbering System

Before assigning any new room or door numbers:

- Verify whether an existing **door numbering system** is present on site.
- Where an existing numbering sequence is confirmed, **all new room numbers must align with the established door numbering system**, maintaining continuity and avoiding duplication.

Application of Door Numbers to New Rooms

- When new construction, renovation, or reconfiguration introduces new rooms, the assigned room numbers **shall match** the corresponding existing door numbering sequence used on site.
- Any anomalies or gaps observed within the existing numbering must be communicated to the BGIS Drawing & Occupancy Team for clarification.

Placement of Door Numbers in Drawings

- Door numbers **shall be placed centered at the top of the door frame** in plan view.

Coordination Requirements

- **Coordinate** new door numbers with adjacent rooms, circulation routes
- Prior to submission, a quality-control check shall confirm that:
    - Door numbers follow the correct order
    - No duplications exist
    - All tags remain visible, unobstructed, and placed on correct layers

4.0 LAYER GUIDELINES

The following standard layers lists the most-used layer names defined under the PSPC layering standards. New layer names can always be created using the field abbreviation and extensions listed in section 5.0 Layer field descriptions.

General Guidelines for All Disciplines:

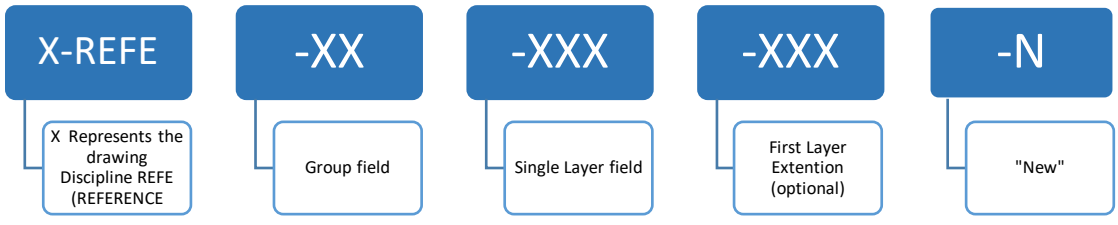
1. **Layer Naming:** All layer names must be capitalized.
2. **Layer State Files:** Discipline-specific .LAS files ("layer states") are available for download from the BGIS CAD Standards website. These files can be imported directly into your drawing to automatically generate all required official layers.
3. **Layer Extensions:** When initiating a project, it is not mandatory to rename existing layers; however, extensions should be added to any new layers. If renaming existing layers, use the extension "-E" to indicate "Existing."
4. **Layer Naming Convention:** The following standardized suffixes must be used for all layers across disciplines:

LAYERS	DESCRIPTION
X-XX-XXX-XXX-**N**	New
X-XX-XXX-XXX-**X**	Remove
X-XX-XXX-XXX-**E**	Existing

This approach ensures all drawings are structured in accordance with PSPC requirements and supports consistent documentation and archiving practice.

5. **Referencing Layers from Other Disciplines:**
   If necessary, you may reference a layer from a different discipline using the following format:
   - XXREFE (where XX represents the drawing discipline and REFE indicates reference)

     Additional layer details may be appended as needed, following the established nomenclature.



4.1 ARCHITECTURE

Group	Layer	Description	Calques-Français
Annotation	A-AN-RNM	Room names	A-AN-NOM
	A-AN-RNO	Room numbers	A-AN-NUI
	A-AN-TXT	General architectural annotation text	A-AN-TEX
Ceiling	A-CL	Ceilings (non-structural)	A-PF
	A-CL-BKH	Bulkheads (may contain structural components)	A-PF-GYP
	A-CL-BKH-HAT	Bulkheads hatching	A-PF-GYP-HAC
	A-CL-FIN	Ceiling finishes	A-PF-FIN
	A-CL-FIN-IDN	Ceiling finishes description	A-PF-FIN-NUI
	A-CL-GRD	Physical ceiling grid	A-PF-TRA
	A-CL-GRD-SCD	Planning grid lines	A-PF-TRA-SCD
	A-CL-OPN	Openings, penetrations, skylights	A-PF-OUV
	A-CL-TXT	Ceiling Notes	A-PF-TEX
Circulation	A-CI	Circulation	A-CI
	A-CI-CVY	Horizontal conveyors, moving sidewalks	A-CI-HOR
	A-CI-ELE	Elevators	A-CI-ELE
	A-CI-ELE-BRF	Lift platforms for barrier-free access	A-CI-ELE-ACF
	A-CI-RMP	Ramps	A-CI-RAM
	A-CI-RMP-BRF	Barrier-free ramps	A-CI-RAM-ACF
	A-CI-STR	Stairs, stairwells and ladders	A-CI-ESC
	A-CI-STR-ESC	Escalators	A-CI-ESC-ROU
Door	A-DR	Doors	A-PO
	A-DR-EXT	Exterior doors, jambs, casework, swings	A-PO-EXT
	A-DR-EXT-IDN	Exterior doors identification numbers	A-PO-EXT-NUI
	A-DR-INT	Interior doors, jambs, casework, swings	A-PO-INT
	A-DR-INT-IDN	Interior doors identification numbers	A-PO-INT-CLS
	A-DR-INT-PRT	Interior doors in a partition wall	A-PO-INT-NUI
Emergency	A-EM	Emergency	A-UR
	A-EM-EQP	Emergency symbols: exit signs, stairs, first aid kit location, etc.	A-UR-EQU
	A-EM-HAT	General hatching	A-UR-HAC
	A-EM-HAT-COR	Corridor hatching	A-UR-HAC-COR
	A-EM-HAT-STR	Staircase hatching	A-UR-HAC-ESC
	A-EM-HAT-WAL	Wall hatching	A-UR-HAC-MUR
	A-EM-OLN	General outline	A-UR-CON
	A-EM-OLN-COR	Corridor outline	A-UR-CON-COR
	A-EM-OLN-STR	Staircase outline	A-UR-CON-ESC
	A-EM-OLN-WAL	Wall outline	A-UR-CON-MUR
	A-EM-TXT	Emergency Text	A-UR-TEX
Fenced Cages	A-FE-INT	Interior fence partitions	A-CL-INT

4.1 ARCHITECTURE

Group	Layer	Description	Calques-Français
Floor	A-FL	Floors (non-structural)	A-PC
	A-FL-ACC	Accessories, ladders, cable holes, concrete foundation for equipment, foot grills…	A-PC-ACC
	A-FL-CTP	Countertops	A-PC-CMP
	A-FL-CTP-PRT	Countertops on partitions	A-PC-CMP-CLS
	A-FL-FIN	Floor finishes	A-PC-FIN
	A-FL-FIN-IDN	Floor finishes description	A-PC-FIN-NUI
	A-FL-FIX	Washroom fixtures	A-PC-APP
	A-FL-LEV	Floor level changes, ramps, truck wells	A-PC-NIV
	A-FL-MIL	Architectural specialties, casework and millwork	A-PC-EBE
	A-FL-OPN	Openings, floor hatching	A-PC-OUV
	A-FL-OVH	Overhead items, skylights, overhangs, soffits	A-PC-SUS
	A-FL-RAS	Raised floors	A-PC-SUR
General	A-GL	General	A-GL
	A-GL-ATT	Attributes	A-GL-ATT
	A-GL-DIM	General architectural dimensions	A-GL-DIM
	A-GL-IDN	Identification, elevation points	A-GL-NUI
	A-GL-RME	Read Me general drawing info.	A-GL-LIS
	A-GL-TMP	Under construction lines, temporary aids	A-GL-TEM
	A-GL-TXT	General text (street names)	A-GL-TEX
Non-Structural Wall	A-WL	Non-structural walls	A-MU
	A-WL-ACC	Architectural or protection elements, guards	A-MU-ACC
	A-WL-ACC-BRF	Barrier-free accessories (grab bars, etc.)	A-MU-ACC-ACF
	A-WL-ARC	Architectural wall	A-MU-ARC
	A-WL-ARC-HAW	Architectural wall – Haworth	A-MU-ARC-HAW
	A-WL-EXT	Exterior walls	A-MU-EXT
	A-WL-EXT-HAT	Exterior walls hatching	A-MU-EXT-HAC
	A-WL-FIN	Wall finishes	A-MU-FIN
	A-WL-FIN-IDN	Wall finishes description	A-MU-FIN-NUI
	A-WL-HED	Door and window headers	A-MU-LIN
	A-WL-HED-PRT	Door and window headers on partition	A-MU-LIN-CLS
	A-WL-INT	Interior walls	A-MU-INT
	A-WL-INT-LOW	Interior walls - low walls	A-MU-INT-BAS
	A-WL-INT-LOW-PRT	Interior partitions - low walls	A-MU-INT-BAS-CLS
	A-WL-INT-PRT	Interior partition walls	A-MU-INT-CLS
	A-WL-OLN	Wall outlines, building footprints, sheds, etc.	A-MU-CON
	A-WL-TMP	LAY	A-MU-TMP
	A-WL-WSR-PRT	Washroom partitions	A-MU-SAT-CLS
Plan Information	A-PL	Plan information	A-PN
	A-PL-OLN	Open-to-below plan information outline	A-PN-CON

4.1 ARCHITECTURE

Group	Layer	Description	Calques-Français
Roof	A-RF	Roof	A-TO
	A-RF-OLN	Roofs edge and features	A-TO-CON
	A-RF-OPN	Roof openings for fans, stacks and ducts	A-TO-OUV
	A-RF-OVH	Overhead items, roof above, canopies, soffits	A-TO-SUR
	A-RF-TXT	Roof text	A-TO-TEX
	A-RF-WLK	Roof boardwalks, catwalks	A-TO-PAS
Window	A-WD	Windows	A-FN
	A-WD-EXT	Exterior window panes and frames	A-FN-EXT
	A-WD-INT	Interior window panes and frames, side windows	A-FN-INT
	A-WD-INT-PRT	Interior windows in a partition wall	A-FN-INT-CLS
	A-WD-OVH	Overhead windows, skylights	A-FN-SUR
	A-WD-SIL	Window sills	A-FN-ALL

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
General	C-GL	General	C-GL
	C-GL-PIC	Inserted pictures	C-GL-IMA
Landscaping	C-LD	Landscaping	C-AX
	C-LD-ANT	Antenna	C-AX-ANT
	C-LD-ART	Artwork, special features	C-AX-ART
	C-LD-BAR	Railings (not attached to buildings)	C-AX-GAC
	C-LD-BRD	Foot bridges	C-AX-PAS
	C-LD-CON	Standard outdoor concrete pad (site / exterior) concrete features, slabs	C-AX-BET
	C-LD-FEN	Fencing	C-AX-CLO
	C-LD-FIL	Filling zone	C-AX-REM
	C-LD-FLG	Flagpoles	C-AX-MAT
	C-LD-FTN	Fountains, pools	C-AX-BSN
	C-LD-FUR	Site furnishings, benches, garbage cans, etc.	C-AX-MOB
	C-LD-GRA	Grading	C-AX-NVL
	C-LD-IRR	Irrigation system	C-AX-IRR
	C-LD-IRR-PIP	Irrigation system piping	C-AX-IRR-TUY
	C-LD-IRR-SYM	Irrigation heads, controls, valves	C-AX-IRR-SYM
	C-LD-RMP	Ramps (not attached to buildings)	C-AX-RAM
	C-LD-RWL	Retaining walls	C-AX-SOU
	C-LD-SPO	Equip., sports facilities, goal nets, shooting targets, etc	C-AX-EQU
	C-LD-STR	Stairs (not attached to buildings)	C-AX-ESC
	C-LD-SWK	Sidewalks	C-AX-TRO
	C-LD-TER	Terraces, courtyards, patios (not attached to buildings)	C-AX-TER
	C-LD-TOE	Toe of erosion control, armour stone, riprap, berms	C-AX-BRV

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
Landscaping	C-LD-TOP	Crest of erosion control, armour stone, riprap, berms	C-AX-HRV
	C-LD-TRL	Trails, footpaths	C-AX-SEN
	C-LD-TUN	Tunnels	C-AX-TUN
	C-LD-TXT	Descriptive information text	C-AX-TEX
Natural Site Features	C-SF	Natural site features	C-CS
	C-SF-DBR	Debris, rubble, loose rock and soil	C-CS-DEB
	C-SF-MAR	Marshes, wetlands	C-CS-TEH
	C-SF-PIT	Borrow pit	C-CS-BEM
	C-SF-RCK	Rock outcrops, boulders, glacial	C-CS-ROC
	C-SF-RMN	Archaeological remnants	C-CS-VST
	C-SF-RMN-ABV	Archaeological remnants above ground	C-CS-VST-AUD
	C-SF-RMN-UND	Archaeological remnants underground	C-CS-VST-SOU
	C-SF-TRE	Trees, tree lines	C-CS-ARB
	C-SF-TRE-TXT	Text describing trees	C-CS-ARB-TEX
	C-SF-TXT	Site feature description text	C-CS-TEX
	C-SF-WTR	Natural boundaries watercourses, shorelines	C-CS-LBM
Profile and Section Data	C-PR	Profile data	C-PR
	C-PR-HOR	Horizontal profiles	C-PR-HOR
	C-PR-TXT	Text, annotations	C-PR-TEX
	C-PR-VER	Vertical profiles	C-PR-VER
Railways	C-RW	Railways	C-CF
	C-RW-ABU	Bridge abutments, piers, trestles, and supports	C-CF-PIL
	C-RW-ALI	Alignment	C-CF-TRC
	C-RW-BRD	Bridges	C-CF-PON
	C-RW-BUF	Buffer, stop, bumper	C-CF-BUT
	C-RW-CLI	Rail centrelines	C-CF-MED
	C-RW-RAI	Railway lines, switches	C-CF-DIA
	C-RW-RMP	Ramps	C-CF-RAM
	C-RW-TUN	Tunnels	C-CF-TUN
Roads	C-RO	Roads	C-RO
	C-RO-ABU	Bridge abutments, piers, and supports	C-RO-PIL
	C-RO-ACC	Parking Accessories, posts	C-RO-ACC
	C-RO-ACR	Fire department access routes	C-RO-URG
	C-RO-ALI	Alignment	C-RO-TRC
	C-RO-ASP	Asphalt road	C-RO-ASP
	C-RO-BAR	Barrier	C-RO-BAR
	C-RO-BRD	Bridges, overpasses, etc.	C-RO-PON
	C-RO-CLI	Road centreline	C-RO-MED
	C-RO-CNT	Highway construction staging	C-RO-CNT
	C-RO-CRB	Curbs	C-RO-BOR

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
Roads	C-RO-GRL	Guides, guard rails, median dividers, bollards	C-RO-PRT
	C-RO-GRV	Gravel road	C-RO-GRV
	C-RO-GUT	Gutter lines	C-RO-CAN
	C-RO-HWY	Highway plan	C-RO-TRR
	C-RO-JER	Jersey barrier	C-RO-JER
	C-RO-MRK	Markings and road striping	C-RO-MAC
	C-RO-MSH	Mass hauling diagrams	C-RO-SCH
	C-RO-RMP	Ramps, on-ramps, loading docks, etc.	C-RO-RAM
	C-RO-ROD	Drivable road limits (asphalt) road, lots	C-RO-LIM
	C-RO-ROD-APX	Drivable road limits' approximate location	C-RO-LIM-APX
	C-RO-SHO	Shoulders	C-RO-ACT
	C-RO-STG	Staging layout plan	C-RO-PHA
	C-RO-SWK	Sidewalks	C-RO-TRO
	C-RO-TRL	Trails, footpaths	C-RO-SEN
	C-RO-TUN	Road tunnels, underpasses, etc.	C-RO-TUN
	C-RO-TXT	Road description, information text	C-RO-TEX
Sanitary Sewer	C-SA	Sanitary sewer	C-ES
	C-SA-CAT	Drainage catch areas	C-ES-BAV
	C-SA-CLE	Cleanout	C-ES-RNT
	C-SA-CMB-MLI	Combined main sewer lines	C-ES-CMB-PRI
	C-SA-CMB-SLI	Combined service sewer lines	C-ES-CMB-SEV
	C-SA-IND	Industrial sewer	C-ES-IND
	C-SA-IOT	Sanitary inlet outlet structure	C-ES-SES
	C-SA-MAN	Sewer manholes, catch basins	C-ES-PUA
	C-SA-MAN-IDN	Text regarding t/g elevation, inverts elevation, etc.	C-ES-PUA-TEX
	C-SA-PMP	Pumping stations	C-ES-PMP
	C-SA-SEP	Septic system	C-ES-SEP
	C-SA-SEP-FIL	Septic field filling zone	C-ES-SEP-REM
	C-SA-SEP-PIP	Septic field piping	C-ES-SEP-TUY
	C-SA-SEP-TNK	Septic tank	C-ES-SEP-RSV
	C-SA-SEW	Sewer lines system	C-ES-EGO
	C-SA-SEW-ABN	Abandoned sanitary sewer lines	C-ES-EGO-ABN
	C-SA-SEW-MLI	Main sanitary sewer lines	C-ES-EGO-PRI
	C-SA-SEW-SLI	Sanitary service sewer lines	C-ES-EGO-SEV
	C-SA-SYM	Junction symbols	C-ES-SYM
	C-SA-SYM-IDN	Text description - type of junction	C-ES-SYM-TEX
	C-SA-TMT	Sewage treatment areas	C-ES-TEU
	C-SA-TXT	General text: length of sewer, slope, material, etc.	C-ES-TEX
Signs and Guideposts	C-SI	Signs and guideposts	C-SI
	C-SI-GDP	Guideposts	C-SI-POT
	C-SI-SGL	Sign layouts and details	C-SI-DET
	C-SI-SGN	Signs	C-SI-ECR

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
Signs and Guideposts	C-SI-TXT	Signage text	C-SI-TEX
Storm Sewer and Drainage	C-SW	Storm water drainage and systems	C-EP
	C-SW-CAT	Drainage catchments areas	C-EP-BAV
	C-SW-CUL	Culverts	C-EP-PON
	C-SW-DCL	Ditch centre lines	C-EP-MED
	C-SW-IOT	Storm inlet outlet structure	C-EP-SES
	C-SW-MAN	Catch basins, manholes	C-EP-PUA
	C-SW-MAN-IDN	Manhole description text: elevation, direction	C-EP-PUA-TEX
	C-SW-MNG	Storm water management pond	C-EP-BSN
	C-SW-PMP	Pumping stations	C-EP-PMP
	C-SW-SEW	Sewer lines system	C-EP-EGO
	C-SW-SEW-ABN	Abandoned storm sewer lines	C-EP-EGO-ABN
	C-SW-SEW-MLI	Storm main sewer lines	C-EP-EGO-PRI
	C-SW-SEW-SLI	Storm service sewer lines	C-EP-EGO-SEV
	C-SW-SUB	Subdrains	C-EP-DRA
	C-SW-SYM	Junction symbols	C-EP-SYM
	C-SW-SYM-IDN	Junction description text	C-EP-SYM-TEX
	C-SW-TXT	Text describing length of sewer, slopes, material	C-EP-TEX
Survey Control, Non-Legal	C-SV	Survey control, non-legal	C-LV
	C-SV-BEN	Local bench marks	C-LV-RNL
	C-SV-BNL	Non-legal boundaries	C-LV-BNL
	C-SV-CHN	Chainage	C-LV-CHI
	C-SV-CLN	Radial ties, traverse lines, control lines	C-LV-LCH
	C-SV-CPT	Control points	C-LV-POA
	C-SV-CPT-HOR	Horizontal control points	C-LV-POA-HOR
	C-SV-CPT-VER	Vertical control points	C-LV-POA-VER
	C-SV-GRD	Survey grid	C-LV-QUA
	C-SV-HOR	Horizontal alignment	C-LV-HOR
	C-SV-LIN	Survey feature connectivity line work	C-LV-TRI
	C-SV-LNL	Limits of contract, non-legal	C-LV-LNL
	C-SV-MON	Found monuments (non-legal)	C-LV-RAR
	C-SV-PAR	Parcel line work (non-legal)	C-LV-PAR
	C-SV-PAR-TXT	Parcel text (non-legal)	C-LV-PAR-TEX
	C-SV-SEL	Super elevation	C-LV-SUE
	C-SV-SPT	Survey points	C-LV-POL
	C-SV-SPT-DES	Survey point description	C-LV-POL-PTS
	C-SV-SPT-ELV	Survey point elevation	C-LV-POL-ELV
	C-SV-SPT-NUM	Survey point number text	C-LV-POL-NUI
	C-SV-SPT-PNT	Survey points	C-LV-POL-DES
	C-SV-STA	Station equation labels	C-LV-STA
	C-SV-STA-IDN	Station labels	C-LV-STA-NUI
	C-SV-STA-PNT	Station points	C-LV-STA-PTS

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
Survey Control, Non-Legal	C-SV-STB	Setbacks	C-LV-MAR
	C-SV-VER	Vertical alignment	C-LV-VER
Topographical Information	C-TP	Topographical information	C-TG
	C-TP-MAJ	Major contours	C-TG-COP
	C-TP-MIN	Minor contours	C-TG-COS
	C-TP-SPT	Spot elevation	C-TG-POC
	C-TP-SRF	Surface model line work	C-TG-MNT
	C-TP-SRF-BRL	Surface model break lines	C-TG-MNT-LCO
	C-TP-SRF-TXT	Surface calculation text	C-TG-MNT-TEX
	C-TP-TOE	Bank (toe)	C-TG-BRV
	C-TP-TOP	Top of bank	C-TG-HRV
Vegetation	C-VG	Vegetation	C-VG
	C-VG-FLW	Flowers	C-VG-FLR
	C-VG-FLW-ANN	Annual flowers	C-VG-FLR-ANN
	C-VG-FLW-PER	Perennial flowers	C-VG-FLR-VIV
	C-VG-GCV	Ground cover	C-VG-CVS
	C-VG-GCV-DEC	Deciduous ground cover	C-VG-CVS-CDC
	C-VG-GCV-EVR	Evergreen ground cover	C-VG-CVS-PST
	C-VG-GCV-ORN	Ornamental ground cover	C-VG-CVS-ORN
	C-VG-GRS	Grass area	C-VG-GAZ
	C-VG-GRS-SED	Seeded grass area	C-VG-GAZ-ENS
	C-VG-GRS-SOD	Sodded grass area	C-VG-GAZ-PLQ
	C-VG-SRB	Shrubs	C-VG-ABT
	C-VG-SRB-DEC	Deciduous shrubs	C-VG-ABT-CDC
	C-VG-SRB-EVR	Evergreen shrubs	C-VG-ABT-PST
	C-VG-SRB-ORN	Ornamental shrubs	C-VG-ABT-ORN
	C-VG-TRE	Trees	C-VG-ARB
	C-VG-TRE-DEC	Deciduous trees	C-VG-ARB-CDC
	C-VG-TRE-ORN	Flowering trees, fruit trees	C-VG-ARB-ORN
	C-VG-VIN	Vines	V-VG-VIN
Water and Fire	C-WM	Water and fire	C-CE
	C-WM-FHY	Fire hydrants	C-CE-BOI
	C-WM-FRL	Fire lines	C-CE-CAX
	C-WM-MAN	Manholes, storage, valves	C-CE-PUA
	C-WM-MAN-IDN	Text describing; t/g elevation, t/pipe elevation	C-CE-PUA-TEX
	C-WM-PMP	Pumping stations	C-CE-PMP
	C-WM-RAW	Raw water lines	C-CE-CEN
	C-WM-SYM	Junction symbols	C-CE-SYM
	C-WM-SYM-IDN	Text describing type of junction	C-CE-SYM-TEX
	C-WM-TXT	Water main descriptive text	C-CE-TEX
	C-WM-WEL	Water wells	C-CE-PUI

4.2 CIVIL ENGINEERING, SITE DESIGN AND LANDSCAPE ARCHITECTURE

Group	Layer	Description	Calques-Français
Water and Fire	C-WM-WLI	Water line	C-CE-CED
	C-WM-WLI-MLI	Water main	C-CE-CED-PRI
	C-WM-WLI-SLI	Water service line	C-CE-CED-SEV

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
Clock Systems	E-CK	Clock systems	E-HO
	E-CK-EQP	Clock equipment	E-HO-EQU
	E-CK-REC	Clock locations	E-HO-PRS
	E-CK-WRG	Wiring	E-HO-CAB
Data Systems	E-DA	Data systems	E-DN
	E-DA-EQP	Data equipment	E-DN-EQU
	E-DA-OUT	Data outlets, jacks	E-DN-PRS
	E-DA-WRG	Wiring	E-DN-CAB
Electrical Schematics	E-SM	Electrical schematics	E-SM
	E-SM-CLK	Clock system schematics	E-SM-HOL
	E-SM-DAS	Data systems schematics	E-SM-DAT
	E-SM-EFP	Electrical fire protection schematics	E-SM-ALI
	E-SM-EPR	Emergency distribution schematics	E-SM-ALU
	E-SM-EPR-EQP	Emergency power equipment	E-SM-ALU-EQU
	E-SM-EPR-GEN	Emergency generation schematics, generators	E-SM-ALU-GEN
	E-SM-EPR-LTG	Emergency lighting schematics	E-SM-ALU-ECL
	E-SM-EPR-MMS	MMS tag numbers for emergency distribution	E-SM-ALU-SGE
	E-SM-EPR-TXT	Text for emergency distribution	E-SM-ALU-TEX
	E-SM-EPR-WRG	Emergency wiring schematics	E-SM-ALU-CAB
	E-SM-GND	Grounding schematics	E-SM-MIT
	E-SM-HVD	High voltage (>750v) emergency distribution	E-SM-HTE
	E-SM-HVD-MMS	MMS tag numbers for high voltage distribution	E-SM-HTE-SGE
	E-SM-KRK	Kirk key interlocks	E-SM-KRK
	E-SM-LAN	Local area network schematics	E-SM-REL
	E-SM-LTP	Lightning protection schematics	E-SM-PRF
	E-SM-LVD	Low voltage emergency distribution	E-SM-BTE
	E-SM-MMS	Maintenance management system (MMS) tag numbers	E-SM-SGE
	E-SM-MTR	Metering	E-SM-CPT
	E-SM-MTR-EQP	Metering equipment, switch board	E-SM-CPT-EQU
	E-SM-MTR-TXT	Metering text	E-SM-CPT-TEX
	E-SM-MTR-WRG	Metering wiring	E-SM-CPT-CAB
	E-SM-NPR	Normal power distribution schematics	E-SM-ANV
	E-SM-NPR-EQP	Normal power distribution equipment	E-SM-ANV-EQU

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
Electrical Schematics	E-SM-NPR-LTG	Normal lighting schematics	E-SM-ANV-ECL
	E-SM-NPR-MMS	MMS tag numbers for normal power distribution	E-SM-ANV-SGE
	E-SM-NPR-TXT	Text for normal power distribution	E-SM-ANV-TEX
	E-SM-NPR-WRG	Normal power wiring	E-SM-ANV-CAB
	E-SM-PAS	Public address system schematics	E-SM-COV
	E-SM-SGN	Signal schematic	E-SM-SGN
	E-SM-TEL	Telephone schematics	E-SM-TEL
	E-SM-TXT	Schedules and legends	E-SM-TEX
	E-SM-UPS	Uninterruptible power system (UPS)	E-SM-ASC
	E-SM-VID	Schema video systems	E-SM-VID
Electricity on System Furniture	E-SY	Electricity on system furniture	E-EA
	E-SY-LAN	LAN network jack	E-EA-REL
	E-SY-LTG	Normal powered lighting	E-EA-ECL
	E-SY-OUT	Electrical outlet	E-EA-PRS
	E-SY-PST	Electrical posts on system furniture	E-EA-COL
	E-SY-TEL	Telephone outlet	E-EA-TEL
Emergency Fire Protection	E-FR	Electrical fire protection	E-AI
	E-FR-ELD	Electromagnetic locking devices	E-AI-DVE
	E-FR-EQP	Equipment: master fire warning panel, alarm, annunciator panels etc.	E-AI-EQU
	E-FR-SIG	Signaling devices	E-AI-SIG
	E-FR-SYM	Electrical FP symbols: pull stations, heat, smoke detectors	E-AI-SYM
	E-FR-VCE	Emergency voice communication	E-AI-CVU
	E-FR-VCE-WRG	Emergency voice communication wiring	E-AI-CVU-CAB
Emergency Generation	E-EG	Emergency generation	E-AS
	E-EG-COD	Conduits	E-AS-COD
	E-EG-EQP	Emergency power generation equipment	E-AS-EQU
	E-EG-GEN	Generators, control switchboards	E-AS-GEN
Emergency Lighting	E-EL	Emergency lighting	E-EU
	E-EL-CLG	Emergency luminaries ceiling-mounted	E-EU-PFD
	E-EL-ESG	Exit signs	E-EU-SOS
	E-EL-EXT	Emergency outside luminaries attached to buildings, poles	E-EU-EXT
	E-EL-WAL	Emergency luminaries wall-mounted	E-EU-MUR
Emergency Power Equipment	E-EP	Emergency power equipment	E-RU
	E-EP-CTL	Motors and controls	E-RU-COM
	E-EP-DCB	DC battery systems	E-RU-ACU
	E-EP-REC	Receptacles	E-RU-PRS
	E-EP-TEN	Special tenant systems	E-RU-LOC

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
Emergency Power Equipment	E-EP-TXT	Control notes	E-RU-TEX
	E-EP-UPS	Uninterruptible power system (UPS) and conditioned power	E-RU-ASC
Emergency Power Wiring and Cabling	E-EW	Emergency power wiring and cabling	E-CU
	E-EW-CBT	Cable trays, ducts, and raceways	E-CU-CCC
	E-EW-CLG	Ceiling-mounted wiring	E-CU-PFD
	E-EW-CLT	Control wiring for emergency lighting	E-CU-COM
	E-EW-EXP	Exposed inside/outside wiring	E-CU-EXT
	E-EW-HVD	High voltage wiring	E-CU-HTE
	E-EW-HVD-CLG	High voltage in ceiling space	E-CU-HTE-PFD
	E-EW-LVD	Low voltage wiring	E-CU-BTE
	E-EW-LVD-CLG	Low voltage in ceiling space	E-CU-BTE-PFD
	E-EW-LVD-FLR	Low voltage under floor	E-CU-BTE-PCH
	E-EW-PAN	Electrical panel for emergency power	E-CU-PAN
	E-EW-UPS	Uninterruptible power system (UPS)	E-CU-ASC
Flat Wiring	E-FW	Flat wiring	E-CP
	E-FW-CBL	Flat wiring cable location	E-CP-CAB
	E-FW-CNB	Flat wiring connection boxes	E-CP-BOJ
Grounding	E-GD	Grounding	E-MT
	E-GD-EQP	Equipment and devices (rods, bus plates)	E-MT-EQU
	E-GD-WRG	Wiring	E-MT-CAB
Normal Lighting	E-NL	Normal lighting	E-EN
	E-NL-CLG	Lighting ceiling mounted	E-EN-PFD
	E-NL-CLG-TXT	Lighting ceiling mounted notes	E-EN-PFD-TEX
	E-NL-CTL	Lighting controls	E-EN-COM
	E-NL-EXT	Outside luminaries attached to buildings, poles	E-EN-EXT
	E-NL-TXT	Lighting notes	E-EN-TEX
	E-NL-WAL	Luminaries in workspace and wall-mounted	E-EN-MUR
Normal Power Equipment	E-NP	Normal Power Equipment	E-RN
	E-NP-ACC	Accessories	E-RM-ACC
	E-NP-CTL	Motors and controls	E-RN-COM
	E-NP-EQP	Normal power equipment: ceiling fans, etc.	E-RN-EQU
	E-NP-HVD	High voltage distribution	E-RN-HTE
	E-NP-LVD	Low voltage distribution	E-RN-BTE
	E-NP-MEC	Electrical connections to mechanical equipment	E-RN-MEC
	E-NP-OUT	Outlets, receptacles	E-RN-PRS
	E-NP-PAN	Electrical panels	E-RN-PAN
	E-NP-RAD	Radiant heating panels	E-RN-RAY
	E-NP-TEN	Special tenant systems	E-RN-LOC

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
Normal Power Generation	E-NG	Normal power generation	E-AN
	E-NG-COD	Conduits	E-AN-COD
	E-NG-EQP	Normal power generation equipment	E-AN-EQU
	E-NG-GEN	Generators, control switchboard	E-AN-GEN
Normal Power Wiring and Cabling	E-NW	Normal power wiring and cabling	E-CN
	E-NW-CBT	Cable trays, ducts, and raceways	E-CN-CCC
	E-NW-CTL	Control wiring lighting	E-CN-COM
	E-NW-EXP	Exposed inside/outside wiring	E-CN-EXT
	E-NW-HVD	High voltage wiring	E-CN-HTE
	E-NW-HVD-CLG	High voltage wiring in ceiling space	E-CN-HTE-PFD
	E-NW-LVD	Low voltage wiring	E-CN-BTE
	E-NW-LVD-CLG	Low voltage wiring in ceiling space	E-CN-BTE-PFD
	E-NW-LVD-FLR	Low voltage under floor	E-CN-BTE-PCH
	E-NW-LVD-WOR	Low voltage in workspace	E-CN-BTE-PTV
	E-NW-PST	Power poles with receptacles	E-CN-COL
	E-NW-TEN	Tenant systems in workspace	E-CN-LOC
	E-NW-UPS	Uninterruptible power system (UPS) and conditioned power	E-CN-ASC
Security System	E-SE	Security systems	E-SS
	E-SE-ALM	Intrusion alarms	E-SS-SAA
	E-SE-CTL	Intrusion controls and controllers	E-SS-COM
	E-SE-ELK	Electrical security locks	E-SS-VEE
	E-SE-LAN	Intrusion system local area network (LAN)	E-SS-REL
	E-SE-SEN	Motion sensors	E-SS-DEI
	E-SE-TXT	Security notes	E-SS-TEX
	E-SE-VCL	Video controllers (digital)	E-SS-CMV
	E-SE-VCM	Video cameras and monitors	E-SS-EQU
	E-SE-WRG	Intrusion controller wiring	E-SS-CAB
Signal Systems	E-SG	Signal systems	E-SI
	E-SG-EQP	Equipment	E-SI-EQU
	E-SG-OUT	Outlets	E-SI-PRS
	E-SG-WRG	Wiring	E-SI-CAB
Single Line Diagram	E-SL	Electrical symbols & lines	E-SL
	E-SL-ELE-INT	Electrical Interlock	E-SL-ELE-INT
	E-SL-EMP	Emergency Power	E-SL-EMP
	E-SL-FLR	Floors	E-SL-FLR
	E-SL-HVP	High Voltage Power	E-SL-HVP
Single Line Diagram	E-SL-KIR-INT	Kirk-Key	E-SL-KIR-INT

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
	E-SL-MEC	Room layout	E-SL-MEC
	E-SL-MEC-INT	Mechanical Interlock	E-SL-MEC-INT
	E-SL-MTR	Metering	E-SL-MTR
	E-SL-NOP	Normal Power	E-SL-NOP
	E-SL-SWG	Switchgear	E-SL-SWG
	E-SL-TXT	Text, Labels	E-SL-TEX
	E-SL-UPS	Uninterrupted Power	E-SL-UPS
Site Distribution and Electrical Equipment	E-SD	Site distribution and electrical equipment	E-DS
	E-SD-COD	Conduits	E-DS-COD
	E-SD-DUC	Concrete ducts	E-DS-CBE
	E-SD-EQP	Site distribution equipment: transformers, pedestals	E-DS-EQU
	E-SD-HVD	High voltage distribution	E-DS-HTE
	E-SD-HVD-ABV	High voltage distribution – above grade	E-DS-HTE-AER
	E-SD-HVD-UND	High voltage distribution – below grade	E-DS-HTE-SOU
	E-SD-LTG	Lighting and wiring	E-DS-ECL
	E-SD-LTG-ABV	Lighting and wiring – above grade	E-DS-ECL-AER
	E-SD-LTG-UND	Lighting and wiring – below grade	E-DS-ECL-SOU
	E-SD-LVD	Low voltage distribution	E-DS-BTE
	E-SD-LVD-ABV	Low voltage distribution – above grade	E-DS-BTE-AER
	E-SD-LVD-UND	Low voltage distribution – below grade	E-DS-BTE-SOU
	E-SD-MAN	Manhole, handwells, junction box, pull pit ground inspection box	E-DS-PUA
	E-SD-MAN-IDN	Text describing; t/g elevation, line elevation	E-DS-PUA-IDN
	E-SD-MUN	Municipal and utility services	E-DS-MUN
	E-SD-POL	Poles and towers (electrical, communication)	E-DS-POT
	E-SD-SUB	Substations	E-DS-SST
	E-SD-TEL	Telephone lines	E-DS-TEL
	E-SD-TEL-ABV	Telephone lines – above grade	E-DS-TEL-AER
	E-SD-TEL-UND	Telephone lines – below grade	E-DS-TEL-SOU
	E-SD-TXT	Text describing type of distribution system	E-DS-TEX
	E-SD-VID	Video lines	E-DS-VID
	E-SD-VID-ABV	Video lines – above grade	E-DS-VID-AER
	E-SD-VID-UND	Video lines – below grade	E-DS-VID-SOU
Sound and PA Systems	E-PA	Sound and PA systems	E-SV
	E-PA-EME	Emergency	E-SV-URG
	E-PA-EQP	Sound equipment, speakers	E-SV-EQU
	E-PA-OUT	Outlets	E-SV-PRS
	E-PA-SYM	Symbols	E-SV-SYM
	E-PA-WRG	Wiring	E-SV-CAB
Telephone Systems	E-PH	Telephone systems	E-TE

4.3 ELECTRICAL

Group	Layer	Description	Calques-Français
	E-PH-EQP	Equipment	E-TE-EQU
	E-PH-OUT	Outlets	E-TE-PRS
	E-PH-PAN	Telephone panel	E-TE-PAN
	E-PH-TXT	Communication notes	E-TE-TEX
	E-PH-WRG	Wiring	E-TE-CAB
Video Conferencing Systems	E-VD	Video conferencing systems	E-VD
	E-VD-EQP	Equipment	E-VD-EQU
	E-VD-OUT	Outlets	E-VD-PRS
	E-VD-WRG	Wiring	E-VD-CAB

4.4 GENERAL

Group	Layer	Description	Calques-Français
Details	G-DT	Details	G-DT
	G-DT-DIM	Detail, section, elevation dimensions	G-DT-DIM
	G-DT-HAT	Detail, section, elevation hatching	G-DT-HAC
	G-DT-LIN	Detail, section, elevation linework	G-DT-TRI
	G-DT-LIN_ExtraThin	Extra thin Detail, section, elevation linework (0.1)	G-DT-TRI_TrèsMince
	G-DT-LIN_Thin	Thin Detail, section, elevation linework (0.15 to 0.18)	G-DT-TRI_Mince
	G-DT-LIN_Fine	Fine Detail, section, elevation linework (0.2 to 0.25)	G-DT-TRI_Fine
	G-DT-LIN_Medium	Medium Detail, section, elevation linework (0.3 to 0.35)	G-DT-TRI_Moyenne
	G-DT-LIN_Wide	Wide Detail, section, elevation linework (0.5)	G-DT-TRI_Large
	G-DT-LIN_Thick	Thick Detail, section, elevation linework (0.7)	G-DT-TRI_Épaisse
	G-DT-LIN_ExtraThick	Extra Wide Detail, section, elevation linework (1.0)	G-DT-TRI_TrèsÉpaisse
	G-DT-LIN_Centreline	Centreline Detail, section, elevation linework	G-DT-TRI_Centre
	G-DT-LIN_Hidden	Hidden Detail, section, elevation linework	G-DT-TRI_Cachée
	G-DT-TXT	Detail, section, elevation annotation, text	G-DT-TEX
General	G-GL	General	G-GL
	G-GL-KEY	Key plan	G-GL-PLR
	G-GL-SYM	Symbols, north arrow, bar scale	G-GL-SYM
	G-GL-TXT	Text, callout blocks	G-GL-TEX
	G-GL-TXT-E	English text	G-GL-TEX-A
	G-GL-TXT-F	French text	G-GL-TEX-F
	G-GL-XRE	External reference	G-GL-XRE
Legend	G-LG	Legend	G-LE

4.4 GENERAL

Group	Layer	Description	Calques-Français
	G-LG-LIN	Symbol legend line work, revision clouds	G-LE-TRI
	G-LG-TXT	Symbol Legend Text	G-LE-TEX
Title block	G-TL	Title block	G-CT
	G-TL-ATT	Attributes for title block	G-CT-ATT
	G-TL-CRT	Stamps, certificates	G-CT-CRF
	G-TL-LGO	Logos	G-CT-LOG
	G-TL-LIN	Line work for title block	G-CT-TRI
	G-TL-RME	Title block read me layer	G-CT-LIS
	G-TL-TBK	Title block insertion Layer	G-CT-CAR
	G-TL-TXT	Text for title block	G-CT-TEX
	G-TL-VPT	Viewport boundaries	G-CT-MET

4.5 MECHANICAL

Group	Layer	Description	Calques-Français
Control Systems	H-CS	Control systems	H-SR
	H-CS-AIR	Control air piping	H-SR-AIR
	H-CS-EQP	Control systems equipment	H-SR-CAB
	H-CS-SYM	Control system symbols: thermostats, humidistat, sensors, etc.	H-SR-EQU
	H-CS-TXT	Control system text	H-SR-TEX
	H-CS-WRG	Control wiring	H-SR-SYM
Domestic Water	H-DW	Domestic water	H-ED
	H-DW-CLD	Domestic cold water	H-ED-EFR
	H-DW-EQP	Domestic water equip: pumps, water softeners, filters	H-ED-EQU
	H-DW-FIX	Plumbing fixtures	H-ED-APP
	H-DW-FIX-PRT	Plumbing fixtures on partitions	H-ED-APP-CLS
	H-DW-HOT	Domestic hot water	H-ED-ECD
	H-DW-HOT-RCL	Domestic hot water recirculation	H-ED-ECD-REC
	H-DW-HOT-TNK	Domestic hot water tanks	H-ED-ECD-RSV
	H-DW-ROW	Reverse osmosis water (medical)	H-ED-EOI
Fire Protection	H-FP	Fire protection	H-PI
	H-FP-CEX	Chemical extinguishing system	H-PI-EXC
	H-FP-CEX-EQP	Chemical extinguishing equipment	H-PI-EXC-EQU
	H-FP-CEX-PIP	Chemical extinguishing piping	H-PI-EXC-TUY
	H-FP-EPE	Explosion-proof equipment	H-PI-EQA
	H-FP-EQP	Fire protect equip: fire hose cabinet, fire dampers, etc.	H-PI-EQU
	H-FP-FEX	Foamed extinguishing system	H-PI-EXM
Fire Protection	H-FP-FEX-EQP	Foamed extinguishing equipment	H-PI-EXM-EQU

4.5 MECHANICAL

Group	Layer	Description	Calques-Français
	H-FP-FEX-PIP	Foamed extinguishing piping	H-PI-EXM-TUY
	H-FP-HAT	Hatch	H-PI-HAC
	H-FP-SPK	Sprinkler system	H-PI-GIC
	H-FP-SPK-EQP	Sprinkler equipment	H-PI-GIC-EQU
	H-FP-SPK-PIP	Sprinkler piping	H-PI-GIC-TUY
	H-FP-SPK-SYM	Sprinkler sys sym: sprinkler heads, backflow preventer,	H-PI-GIC-SYM
	H-FP-SPK-TXT	Sprinkler system text	H-PI-GIC-TEX
	H-FP-SPK-ZNS	Sprinkler system zones	H-PI-GIC-ZON
	H-FP-STP	Standpipe system	H-PI-CMG
	H-FP-STP-EQP	Standpipe equipment	H-PI-CMG-EQU
	H-FP-STP-PIP	Standpipe piping	H-PI-CMG-TUY
	H-FP-SYM	Fire protection symbols: fire extinguisher, hydrants Siamese connections, etc.	H-PI-SYM
	H-FP-TXT	Fire protection text	H-PI-TEX
Fuel and process piping	H-PP	Fuel and process piping	H-TC
	H-PP-MAN	Manholes fueling stations	H-TC-PUA
	H-PP-MET	Meters	H-TC-CPT
	H-PP-PIP	Fuel and process piping	H-TC-TUY
	H-PP-PMP	Pumping stations	H-TC-PMP
	H-PP-TNK	Fuel tanks	H-TC-RSV
	H-PP-VAL	Valves	H-TC-VAN
Heating and Cooling	H-HC	Heating and cooling	H-CH
	H-HC-CHL	Chilled water	H-CH-ERF
	H-HC-CHL-RET	Chilled water return	H-CH-ERF-RET
	H-HC-CHL-SUP	Chilled water supply	H-CH-ERF-ALM
	H-HC-CNV	Convectors	H-CH-CNV
	H-HC-COT	Cooling tower water	H-CH-TRF
	H-HC-COT-RET	Cooling tower water return	H-CH-TRF-RET
	H-HC-COT-SUP	Cooling tower water supply	H-CH-TRF-ALM
	H-HC-GLY	Glycol	H-CH-GLY
	H-HC-GLY-RET	Glycol return	H-CH-GLY-RET
	H-HC-GLY-SUP	Glycol supply	H-CH-GLY-ALM
	H-HC-HAT	Hatching related to the heating system	H-CH-HAC
	H-HC-HWA	Heating water	H-CH-ECF
	H-HC-HWA-RET	Heating water return	H-CH-ECF-RET
	H-HC-HWA-SUP	Heating water supply	H-CH-ECF-ALM
	H-HC-HYD	Hydronic equipment	H-CH-HYD
	H-HC-RAD	Radiant heat tubing	H-CH-RAY
	H-HC-REF-EQP	Refrigerant equipment	H-CH-FRI-EQU
	H-HC-RFG	Refrigerant gas	H-CH-GAF
Heating and Cooling	H-HC-RFL	Refrigerant liquid	H-CH-FLF

4.5 MECHANICAL

Group	Layer	Description	Calques-Français
	H-HC-STM	Steam	H-CH-VAP
	H-HC-STM-EQP	Steam equipment	H-CH-VAP-EQU
	H-HC-STM-RET	Steam condensate (return)	H-CH-VAP-RET
	H-HC-STM-SUP	Steam supply	H-CH-VAP-ALM
	H-HC-TXT	General notes that are not associated with the heating network but related to heating	H-CH-TEX
Mechanical schematics and riser diagrams	H-SM	Mechanical schematics and riser diagrams	H-SM
	H-SM-CTL	Control system schematics	H-SM-COM
	H-SM-DRS	Duct riser diagrams	H-SM-CMC
	H-SM-DUC	Duct schematic diagrams	H-SM-COD
	H-SM-PIP	Piping schematic diagrams	H-SM-TUY
	H-SM-PRS	Piping riser diagrams	H-SM-CMT
	H-SM-SYM	Symbols	H-SM-SYM
	H-SM-WST	Waste schematics	H-SM-EEU
Plumbing	H-PB	Plumbing	H-PB
	H-PB-CMA	Compressed air	H-PB-AIC
	H-PB-CMA-EQP	Compressed air equipment	H-PB-AIC-EQU
	H-PB-CO2	Carbon dioxide gas	H-PB-CO2
	H-PB-COM	Combined	H-PB-COM
	H-PB-DWV	Drainage waste and vent system	H-PB-REV
	H-PB-DWV-SYM	Symbols: roof drains, floor drains, etc.	H-PB-REV-SYM
	H-PB-DWV-VEN	Ventilating circuit, vents	H-PB-REV-EVE
	H-PB-DWV-WST	Drainage circuit	H-PB-REV-EEU
	H-PB-EQP	Plumbing equipment: pumps, coils motors, grease interceptor, etc.	H-PB-EQU
	H-PB-FOI	Fuel oil	H-PB-MAZ
	H-PB-FOI-EQP	Fuel equipment	H-PB-MAZ-EQU
	H-PB-FOI-RET	Fuel oil return	H-PB-MAZ-RET
	H-PB-FOI-SUP	Fuel oil supply	H-PB-MAZ-ALM
	H-PB-FOI-VEN	Fuel oil vent	H-PB-MAZ-EVE
	H-PB-HAT	Hatching related to the plumbing system	H-PB-HAC
	H-PB-HEG	Helium gas	H-PB-HEL
	H-PB-HYG	Hydrogen gas	H-PB-HYG
	H-PB-MAN	Access holes	H-PB-PUA
	H-PB-MEG	Methane gas	H-PB-MTH
	H-PB-NGA	Natural gas	H-PB-GAN
	H-PB-NIT	Nitrogen gas	H-PB-AZO
	H-PB-OXY	Oxygen gas	H-PB-OXY
	H-PB-PGA	Propane gas	H-PB-GAP
	H-PB-REC	Recycled water piping network	H-PB-REC
Plumbing	H-PB-RWL	Rainwater drainage	H-PB-EUP

4.5 MECHANICAL

Group	Layer	Description	Calques-Français
	H-PB-SAN	Sanitary drainage	H-PB-SAN
	H-PB-SYM	Plumbing symbols: gauges, fittings, valves elbows, unions, reducer	H-PB-SYM
	H-PB-TXT	General notes that are not associated with the plumbing system but related to plumbing	H-PB-TEX
	H-PB-ULT	Ultrasound	H-PB-ULT
	H-PB-VAC	Cleaning system, vacuum	H-PB-NET
Ventilation and air conditioning	H-VA	Ventilation and air conditioning	H-VC
	H-VA-ACC	Accessories	H-VC-ACC
	H-VA-COA	Combustion air ductwork	H-VC-ACO
	H-VA-EQP	Equipment: fans, dampers, coils, filters, etc.	H-VC-EQU
	H-VA-EXH	Exhaust air system	H-VC-AEV
	H-VA-EXH-DUC	Exhaust air ductwork	H-VC-AEV-COD
	H-VA-EXH-GRI	Exhaust grilles	H-VC-AEV-GRI
	H-VA-HAT	Hatch	H-VC-HAC
	H-VA-INS	Duct insulation, acoustical lining	H-VC-ISO
	H-VA-OTA	Outside air system	H-VC-AEX
	H-VA-OTA-DUC	Outside air ductwork	H-VC-AEX-COD
	H-VA-OTA-GRI	Outside air grilles	H-VC-AEX-GRI
	H-VA-RET	Return system	H-VC-REP
	H-VA-RET-DUC	Return ductwork	H-VC-REP-COD
	H-VA-RET-GRI	Return grills	H-VC-REP-GRI
	H-VA-SUP	Supply system	H-VC-AMA
	H-VA-SUP-DIF	Supply diffusers	H-VC-AMA-DIF
	H-VA-SUP-DUC	Supply ductwork	H-VC-AMA-COD
	H-VA-SYS	Systems	H-VC-SYS
	H-VA-TXT	General notes which are not associated to ventilation network but related to ventilation	H-VC-TEX
	H-VA-VAV	Variable air volume boxes	H-VC-DAV
	H-VA-VEN	Flue, vent, breaching	H-VC-EVE

4.6 INTERIOR DESIGN

Group	Layer	Description	Calques-Français
Equipment	I-EQ	Equipment	I-EQ
	I-EQ-CMP	Computers	I-EQ-ORD
	I-EQ-OEQ	Office equipment	I-EQ-EXI
	I-EQ-OEQ-ATT	Office equipment attribute	I-EQ-EXI-ATT
	I-EQ-SPC	Special equipment	I-EQ-SPE
	I-EQ-TXT	General notes which are not found on master plans. (*For the construction only).*	I-EQ-TEX

4.6 INTERIOR DESIGN

Group	Layer	Description	Calques-Français
Furniture	I-FU	Furniture	I-MO
	I-FU-ACC	Accessories, coat trees, racks	I-MO-ACC
	I-FU-ART	Artwork	I-MO-ART
	I-FU-ATT	Furniture attributes	I-MO-ATT
	I-FU-CAB	Storage cabinets, files	I-MO-RAG
	I-FU-CLR	Furniture color	I-MO-COU
	I-FU-DSK	Desks, freestanding work surfaces	I-MO-SUT
	I-FU-NOF	Non-office furniture, first aid room beds, etc.	I-MO-APE
	I-FU-PLT	Plants	I-MO-PLT
	I-FU-POS	Workstation numbers	I-MO-NUI
	I-FU-SET	Seating	I-MO-SIE
	I-FU-SHL	Shelving	I-MO-ETA
	I-FU-SIZ	Furniture size	I-MO-DIM
	I-FU-TAB	Tables	I-MO-TAB
	I-FU-TXT	Annotations, text furniture	I-MO-TEX
Signage	I-SI	Signage	I-SI
	I-SI-EQP	Barrier-free signs	I-SI-ACF
	I-SI-OFF	Office signage	I-SI-BUR
	I-SI-SPC	Special signage	I-SI-SPE
System Furniture	I-SY	System furniture	I-EA
	I-SY-CLR	Panel color	I-EA-COU
	I-SY-OVH	Panel overhead storage, etc.	I-EA-SUR
	I-SY-PED	Pedestal	I-EA-PED
	I-SY-SCR	Panels, screens	I-EA-ECA
	I-SY-SIZ	Panel sizes	I-EA-DIM
	I-SY-SUR	Work surfaces for system furniture	I-EA-SUT

4.7 LEGAL LAND SURVERYING

Group	Layer	Description	Calques-Français
Boundary, Cadastral fabric	L-CF	Cadastral fabric	L-CD
	L-CF-BDY	Property boundary, Surveyed boundary	L-CD-LIF
	L-CF-CAN	Canadian boundaries	L-CD-FCN
	L-CF-CLS	CLSR boundaries, reserves, parks	L-CD-RTC
	L-CF-DIM	Segment labelling, bearings, and distance	L-CD-DIM
	L-CF-EAS	Limited interest estate, easement, right of way	L-CD-DRO
	L-CF-OTH	Other parcels/boundaries	L-CD-AUT
	L-CF-PRO	Provincial boundaries	L-CD-PRV
	L-CF-REG	Regional and municipality boundaries	L-CD-MUN

4.7 LEGAL LAND SURVERYING

Group	Layer	Description	Calques-Français
Boundary, Cadastral fabric	L-CF-STB	Setbacks	L-CD-MAR
	L-CF-SYM	Symbols: coordinate monument, control point	L-CD-SYM
	L-CF-TXT	Cadastral labelling, description, property ID, book number, etc.	L-CD-TEX
	L-CF-ZNS	Land use regulation, zoning	L-CD-ZON
	L-CF-EAS	Limited interest estate, easement, right of way	L-CD-SER
General	L-GL	General	L-GL
	L-GL-TXT	General text	L-GL-TEX
Legal survey	L-SV	Legal survey	L-LV
	L-SV-CLN	Radial ties, traverse lines, control lines	L-LV-LCH
	L-SV-GRD	Survey grid	L-LV-QUA
	L-SV-SPT	Survey points	L-LV-POL
	L-SV-SPT-DES	Survey point description	L-LV-POL-DES
	L-SV-SPT-ELV	Survey point elevation	L-LV-POL-ELV
	L-SV-SPT-NUM	Survey point number text	L-LV-POL-NUI
	L-SV-SPT-PNT	Survey points	L-LV-POL-PTS
	L-SV-SPT-TXT	Survey point text	L-LV-POL-TXT
	L-SV-SYM	Symbols: survey pins, iron bars, etc.	L-LV-SYM
	L-SV-TXT	Identification text	L-LV-TEX

4.8 STRUCTURAL

Group	Layer	Description	Calques-Français
Ceilings	S-CL	Ceilings (structural)	S-PF
	S-CL-BEM	Ceiling beams	S-PF-POU
Floors	S-FL	Floors	S-PC
	S-FL-BEM	Floor beams	S-PC-POU
	S-FL-BRC	Bracing	S-PC-ENT
	S-FL-DEK	Decking, waffle	S-PC-PLA
	S-FL-FRM	Framing	S-PC-CHR
	S-FL-JNT	Joints, expansion, construction	S-PC-JOC
	S-FL-JST	Joists	S-PC-PLP
	S-FL-OLN	Floor outlines	S-PC-CON
Floors	S-FL-OPN	Floor openings	S-PC-OUV
	S-FL-SLB	Floor slabs	S-PC-DPP
	S-FL-STR	Structural landings	S-PC-ESC
Foundations	S-FN	Foundations	S-FD
	S-FN-BEM	Pile caps, cap beams, grade beams	S-FD-POU
	S-FN-FIL	Backfill, soil line	S-FD-REM
	S-FN-FTG	Footings	S-FD-SEM
	S-FN-OLN	Foundation outlines	S-FD-CON
	S-FN-PIL	Piles, caissons, piers	S-FD-PIE

4.8 STRUCTURAL

Group	Layer	Description	Calques-Français
Structural grid	S-GR	Structural grid	S-QU
	S-GR -DIM	Structural grid dimensions	S-QU-DIM
	S-GR -IDN	Structural grid identification	S-QU-IDN
	S-GR-EXT	Structural grid lines outside building	S-QU-EXT
	S-GR-INT	Structural grid lines inside building	S-QU-INT
Roofs	S-RF	Roofs (structure)	S-TO
	S-RF-BEM	Beams	S-TO-POU
	S-RF-BRC	Bracing	S-TO-ENT
	S-RF-DEK	Decking, waffle	S-TO-PLA
	S-RF-FRM	Framing,	S-TO-CHR
	S-RF-JNT	Joints, expansion, construction	S-TO-JOC
	S-RF-JST	Joists	S-TO-PLP
	S-RF-OLN	Roof outlines	S-TO-CON
	S-RF-OPN	Roof openings	S-TO-OUV
	S-RF-SLB	Roof slabs	S-TO-DPP
	S-RF-TRU	Roof Trusses	S-TO-FER
Walls, columns	S-WL	Walls	S-MU
	S-WL-BRC	Cross bracing	S-MU-ENT
	S-WL-BRG	Bearing walls	S-MU-POR
	S-WL-COL	Columns	S-MU-COL
	S-WL-HAT	Structural Walls Hatch	S-MU-HAC
	S-WL-JNT	Joints, expansion, construction	S-MU-JOC
	S-WL-OPN	Wall openings	S-MU-OUV
	S-WL-RWL	Retaining walls	S-MU-STM

5.0
LAYER FIELD DESCRIPTIONS

5.1 DISCIPLINE FIELD

The following table lists the discipline field abbreviations that can be used to create new layers names. **X**-XX-XXX

Abbreviation	Description
A	Architecture
C	Civil Engineering, site design & landscape architecture
E	Electrical Systems
G	General Information
H	Mechanical
I	Interior Design
L	Land Surveying
S	Building structure

5.2 GROUP FIELD

The following table lists the Group field abbreviations that can be used to create new layer names only when combined with the corresponding valid Discipline field. This is the second part of the layer name following the Discipline field: X-**XX**-XXX

Discipline	Abbreviation	Description
A	CI	Circulation
A	DR	Doors
A	EM	Emergency
A	WD	Windows
A,B	DK	Deck
A,B,C,G, L,M,R,S	GL	Global / General
A,S	CL	Ceilings
A,S	FL	Floors
A,S	RF	Roofs
A,S	WL	Walls, columns

Discipline	Abbreviation	Description
all	PL	Plan
B	AP	Approach slabs
B	SB	Substructure
B	SS	Superstructure
B,M	SR	Scour protection
C	BH	Borehole data (geotechnical)
C	DI	Diesel fuel distribution
C	EN	Environment
C	HY	Hydrology
C	LD	Landscaping
C	NZ	Natural gas
C	OI	Oil distribution
C	PG	Propane gas
C	PR	Profile data
C	RO	Roads
C	RW	Railways
C	SA	Sanitary sewer
C	SF	Natural site features
C	SW	Storm water and drainage
C	TP	Topographical information
C	VG	Vegetation
C	WM	Water and fire
C,I	SI	Signage
C,L	SV	Survey
E	CK	Clock systems
E	DA	Data systems
E	EG	Emergency generation
E	EL	Emergency lighting
E	EP	Emergency power equipment
E	EW	Emergency power wiring and cabling
E	FR	Electrical fire protection
E	FW	Flat Wiring
E	GD	Grounding
E	LP	Lightning protection
E	NG	Normal power generation
E	NL	Normal lighting
E	NP	Normal power equipment
E	NW	Normal power wiring and cabling
E	PA	Sound and public address (PA) systems
E	PH	Telephone systems
E	SD	Site distribution and electrical equipment
E	SE	Security systems
E	SG	Signal systems
E	VD	Video conferencing systems

Discipline	Abbreviation	Description
E,H	SM	Schematics
E,I	SY	System furniture
F	GC	Grass Cutting
F	SR	Snow Removal
G	DT	Details
G	LG	Legend
G	TL	Title block
H	CS	Control systems
H	DW	Domestic water
H	FP	Fire protection
H	HC	Heating and cooling
H	PB	Plumbing
H	PP	Fuel and process piping
H	VA	Ventilation and air conditioning
I	BP	Blocking plan
I	EI	Employee information
I	EQ	Equipment
I	FU	Furniture
L	AZ	Airport zoning
L	CF	Cadastral fabric
M	BW	Breakwater features
M	CP	Cathodic Protection
M	DG	Dredging, excavation, grubbing
M	NV	Navigation
M	SK	Skid-way, haul-outs, slipways
M	SN	Hydrographic survey information, non-legal
M	WF	Wharf features
R	BC	Building common areas “Accessory B”
R	BS	Building service areas
R	EX	Exterior site areas
R	FC	Floor common areas
R	GA	Gross area
R	PK	Parking
R	UC	User common
R	US	Usable
R	ZN	Zoning
S	FN	Foundations
S	GR	Grid

5.3 SINGLE LAYER FIELD AND FIRST LAYER NAME EXTENSION

The following table lists the Single Layer field and First Layer Name Extension abbreviations that can be used to create new layer names. This is the third or fourth part (if required) of the layer name following the Group field: X-XX-**XXX** X-XX-XXX-**XXX**-X

Abbreviation	Description
3DM	3D model components of 2D symbols
ABN	Abandoned
ABU	Abutments
ABV	Above ground, above grade
ACC	Accessories
ACR	Fire department access routes
AIR	Control air piping
ALI	Alignment
ALM	Intrusion alarms
ANN	Annual flowers
ANT	Antenna
APC	Approach surface (airport)
APR	Approach slabs
APX	Approximate
ART	Artwork
ASP	Asphalt
ATT	Attributes
AWP	Acid waste piping (medical)
BAR	Barriers, railings
BDY	Legal limits, fee simple, admin., control
BED	Vessel beds
BEM	Beams
BEN	Local benchmarks
BIR	Bird hazard (airport)
BKH	Bulkheads
BLI	Blister Tactile Paving
BLK	Block
BND	Boundaries
BRC	Bracing
BRF	Barrier-free
BRC	Brush Removal Cutting
BRD	Bridges
BRG	Bearing
BRK	Brick
BDY	Legal limits, fee simple, admin., control

Abbreviation	Description
BED	Vessel beds
BRL	Break lines
BUF	Buffer, stop, bumper
BUO	Buoys
BYP	By-pass box
CAB	Cabinet
CAI	Caissons
CAN	Canadian boundaries
CAR	Cards, Cutting or Snow Removal as and when required
CAT	Catchments area
CAW	Cutting or Snow Removal as and when required
CBL	Flat wiring cable location
CBT	Cable trays, ducts, and raceways
CEX	Chemical extinguisher
CHL	Chilled water
CHN	Chainage
CLD	Cold water
CLE	Cleaning, clean out
CLG	Ceiling-mounted equipment, wiring, or finishes
CLI	Centerlines
CLK	Clock system
CLN	Control lines
CLR	Colors
CLS	CLSR boundaries, reserves, parks
CLT	Control wiring for emergency lighting
CMA	Compressed air
CMB	Combined sewers
CMP	Computers
CNB	Flat wiring connection boxes
CNL	Navigation channels, corridors
CNT	Construction
CNV	Convectors
CO2	Carbon dioxide gas
COA	Combustion air ductwork
COD	Conduits

Abbreviation	Description
COL	Columns
CON	Concrete
COR	Corridors
COT	Cooling tower
CPT	Control points
CRB	Curbs
CRP	Carpet
CRT	Certificates, stamps
CRW	Crown slopes, crowns
CTL	Controls
CTM	Contamination (environment)
CTP	Countertops
CTW	Catwalks
CUL	Culverts
CVY	Horizontal conveyors, moving sidewalks
CWL	Cope walls, cope beams
CWK	Cribwork, ballast floor
DAS	Data systems schematics
DAT	Chart datum contour, 0.00 m
DBR	Debris, rubble, loose rock and soil
DCB	DC battery systems
DCL	Ditch center lines
DEC	Deciduous
DEK	Deck
DEP	Space allocation by department
DES	Description
DIF	Diffusers
DIG	Digitized or vectorized from scanned Image
DIM	Dimensions
DIT	Ditch
DIV	Divisions
DRG	Dredged area or limits
DRK	Derricks, cranes, gallows
DRN	Drains, scuppers
DRS	Duct riser diagrams
DSK	Desks, work surfaces, tables
DUC	Ducts
DWV	Drainage waste and vent system
EAS	Easement
EFP	Electrical fire protection schematics
ELD	Electromagnetic locking devices
ELE	Elevators
ELK	Electrical security locks

Abbreviation	Description
ELV	Elevation (survey points)
EME	Emergency
ENC	Encroachments (unusable space)
EPE	Explosion-proof equipment
EPR	Emergency power wiring & equipment
EQP	Equipment
ESC	Escalator
ESG	Exit signs
ETR	Electrode, anode, cathode
EVR	Evergreen
EXH	Exhaust
EXP	Exposed inside/outside wiring
EXT	Exterior
FEN	Fencing
FEX	Foamed extinguisher
FHY	Fire hydrants
FIL	Backfill, soil line
FIN	Finishes
FIR	Fire egress
FIX	Electrical, Plumbing fixtures
FLG	Flagpoles
FLM	Flail Mowing
FLO	Flow, discharge
FLR	Floor-mounted equipment, wiring or finishes
FLW	Flowers
FND	Fenders
FOI	Fuel oil
FOC	Fiber optic cable
FRL	Fire lines
FRM	Framing
FST	Floating wharfs
FTG	Footing
FTN	Fountains, pools
FUR	Site furnishings, benches, garbage cans, etc.
FWL	Fire walls
GAB	Gabions
GCV	Ground cover
GDP	Guideposts
GEN	Generators
GLY	Glycol
GLZ	Glass, glazing
GND	Grounding schematics
GPS	Global Positioning System

Abbreviation	Description
GRA	Grading
GRD	Grid
GRI	Grilles
GRL	Guides, guardrails, median dividers, bollards
GRP	Space allocation by group / branch
GRS	Grass, lawn area
GRV	Gravel
GUA	Guards
GUT	Gutter lines
GWY	Gangways
HAT	Hatching
HED	Door and window headers
HEG	Helium gas
HIG	High
HMC	Hand / Manual Cutting
HNT	High normal tide
HOR	Horizontal
HOT	Hot water
HVD	High voltage distribution
HWA	Heating water
HWL	High water lines
HWY	Highway plan
HYD	Hydronic equipment
HYG	Hydrogen gas
ICE	Ice thickness
IDN	Identification
IMP	Imports (Revit families)
IND	Industrial
INS	Insulation
INT	Interior
IOT	Inlet outlet
IRR	Irrigation system
JER	Jersey wall
JMB	Door jamb, casework
JNT	Joints
JST	Joists
KRK	Kirk key interlocks
LAD	Ladders
LAN	Local area network
LAY	Layout line work
LDL	Lead lines
LEV	Floor level changes, ramps, truck wells

Abbreviation	Description
LGO	Logos
LGT	Lighting control schematics and diagrams
LIM	Limits
LIN	Line work
LNT	Low normal tide
LOB	Floor elevator lobbies
LOG	Borehole logs and data
LOW	Low
LTG	Normal powered lighting
LTP	Lightning protection schematics
LVD	Low voltage distribution
LWL	Low water lines
MAJ	Major contours
MAN	Manholes
MAR	Marshes, wetlands
MAT	Wharf mattress, granular base
MEC	Electrical connections to mechanical equipment
MEG	Methane gas
MET	Meters
MIL	Architectural specialties, casework and millwork
MIN	Minor contours
MLI	Main lines
MMS	Maintenance Management System
MNG	Storm water management pond
MON	Monuments
MOR	Mooring cleats, bollards
MRK	Markings and road striping
MSH	Mass hauling diagrams
MTR	Metering wiring & equipment
MUN	Municipal and utility services
NGA	Natural gas
NIT	Nitrogen (medical)
NOD	Node, horizontal reference point
NOF	Non-office furniture, first aid room beds, etc.
NPR	Normal power schematics, risers
NPT	Non Plot
NUM	Number
OEQ	Office equipment
OFF	Office signage
OLN	Outlines
OPN	Openings
ORN	Ornamental

Abbreviation	Description
OTA	Outside air
OTH	Other
OUT	Outlets
OVH	Overhead
OXY	Oxygen (medical)
PAN	Distribution panel (electrical, telephone)
PAR	Parcel line work
PAS	Public address system schematics
PER	Perennial
PGA	Propane gas
PIC	Inserted pictures
PIL	Piles
PIP	Pipes, piping
PIR	Piers
PIT	Borrow pit
PLA	Plastic
PLM	Plume outline
PLN	Approach slabs in plan view
PLT	Plants
PLZ	Pollinator Zone
PMP	Pumping stations
PNL	Door panels, leaves
PNT	Points
POL	Poles and towers (electrical, communication)
PRB	Probe depth
PRF	Profiles
PRI	Primary
PRO	Provincial boundaries
PRP	Parapet
PRS	Piping riser diagrams
PRT	Partitions (walls)
PST	Posts
PTS	Station points
QLX	X (1 to 5) Quality level associated with geospatial data and information
RAD	Radiant heat
RAI	Railway
RAS	Raised floors
RAW	Raw water lines
RCK	Rock
RCL	Recirculation
REB	Reinforcing
REC	Receptacles

Abbreviation	Description
REF	Refrigerant equipment
REG	Regional and municipality boundaries, Regular Cutting or Snow Removal
RET	Return
RFG	Refrigerant gas
RFL	Refrigerant liquid
RLN	Reference lines
RME	Read Me info
RMN	Remnants (archaeology)
RMP	Ramps
RMS	Rooms
ROD	Drivable road limits (asphalt) road, lots
ROW	Reverse Osmosis (RO) water or distilled water (medical)
RPL	Reference plan
RPS	Real property information
RRP	Riprap
RWL	Retaining walls
SAF	Life safety
SBL	Snow Blowing
SCD	Secondary
SCR	System furniture panels, screens
SDP	Snow Dump
SEC	Security zoning
SED	Seeded area
SEL	Super elevation
SEN	Motion sensors
SEP	Septic (field, tank, etc.)
SET	Seating
SEW	Sewer
SFT	Shafts
SGL	Sign layouts and details
SGN	Signs
SHL	Shelving
SHO	Shoulder
SIG	Signalling devices
SIL	Window sills
SIZ	Size
SKD	Skid timbers, skid poles
SLB	Slabs
SLI	Service lines
SMP	Soil sample locations
SND	Sand
SNL	Stringers

Abbreviation	Description
SOD	Sodded
SPA	Spars
SPC	Special
SPK	Sprinkler system
SPL	Snow Piling
SPO	Sports facilities, goal nets, etc.
SPR	Stratigraphic profiles
SPT	Spot elevations
SRB	Shrubs
SRF	Surface model line work
SSP	Steel sheet piling
STA	Stations (survey)
STB	Setbacks
STG	Staging layout plan
STI	Strip (airport)
STL	Steel
STM	Steam
STO	Stone
STP	Standpipe
STR	Stairs, stairwells, and ladders
SUB	Sub
SUP	Supply
SUR	Work surfaces, D-tops, P-tops, etc.
SWG	Door swing or path
SWK	Sidewalks
SYM	Symbols
TAB	Tables
TBK	Title block
TEL	Telephone
TEN	Tenant
TER	Terraces
TID	Tide gauges, tidal equipment, tide datum
TIE	Tie rods, anchor blocks, tie-back walls
TIL	Tile
TIM	Timber
TMP	Temporary
TMT	Sewage treatment areas
TNK	Tanks
TOE	Toe of bank, breakwater, berms

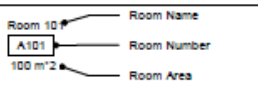
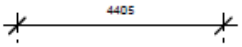
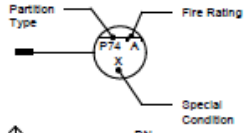
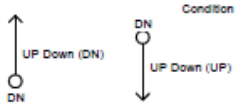
Abbreviation	Description
TOP	Top of bank, crest of breakwater, berms
TRE	Trees
TRL	Trails
TRS	Transitional surface (airport)
TRU	Trusses
TUN	Tunnels
TXT	Text
UCD	Underlying cadastral fabric, deeds, lots, plans
UND	Underground, below grade
UNT	Space allocation by units
UPS	Uninterruptible power system (Ups) and conditioned power
VAC	Vacuum piping
VAL	Valves
VAV	Variable air volume boxes
VCE	Emergency voice communication
VCL	Video controllers (digital)
VCM	Video cameras and monitors
VEN	Vents
VER	Vertical
VID	Video system schematics
VIN	Vines
VPC	Valve pump chamber
VPT	Viewports
WAL	Walls, Wall-mounted equipment or wiring
WEL	Well
WIN	Windows
WLI	Water lines
WLK	Roof boardwalks, catwalks
WNG	Wing wall
WOR	Working area
WPC	Wild Parsnip Mowing
WPM	Wild Parsnip Control
WRG	Wiring
WSR	Washrooms
WST	Waste schematics
WTR	Watercourse
XRE	External reference
ZNS	Zoning surfaces

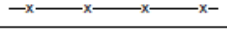
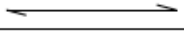
5.4 SECOND LAYER NAME EXTENSION

The following table lists the Second Layer name extension abbreviations that can be used to create new layer names. This is the fourth or fifth part of the layer name following the Single layer field or First Layer name extension: X-XX-XXX-**X** X-XX-XXX-XXX-**X**

Abbreviation	Description
1 to 9	Options or phases 1 to 9
A	English text (anglais)
B	As built (as Constructed)
E	Existing
F	French text
M	To be moved or relocated
N	New
P	Planned or proposed
S	Base
X	To be removed / Removed
Z	Abandoned

6.0
SYMBOLS & GRAPHICS

Architectural Legends -	Legend Name -	Civil Legends -	Legend Name -
	Room Tag		Borehole
	Wall Tag		Test Pit
	Window Tag		Manhole General
	Door Tag		Flag Pole
	Dimension		Sprinkler
	Wall/Partition Tag		Road Bollard
			Barrier Free
	Circulation		Catch Basin
	Proposed Door		Floor Drain
	Existing Door		Hose Bib
			Siamese Connection
	Demolition Door		Gas Meter
	Single Door (Bi-Fold)		Curb Stop
			Valve Box
	Revolving Door		Valve Chamber
			Standpipe
	Double Uneven Door		
	Sliding Door		
	Window		

Site Plan Legends -	Legend Name -	Site Plan Legends -	Legend Name -
	Main Building Entrance		Demolition
	Fence		Direction Of Grain In Metal & Wood

Electrical Legends -	Legend Name -	Architectural Legends -	Legend Name -
S	Smoke Detector		Incandescent Light (Ceiling Mounted)
H	Heat Detector		Incandescent Light (Wall Mounted)
F	Fire Alarm (Manual Pull)	G	Generator
F	Fire Alarm (Bell)	JB	Junction Box
F	Fire Alarm Horn		Exhaust Fan
S	Emergency Speaker	T	Thermostat
	Camera	S	Smoke Detector
X	Exit Sign	H	Heat Detector
	Switch Board		Recessed Mounted Fluorescent Luminaire
	Linear Light Fixtures		

Notation Legend -:	Legend Name -:	Notation Legend -	Legend Name -:
Drawing Number, Title, Scale, Sheet Number	Drawing Title	Detail Number, REF, Ref Label (typ./Sym.), Sheet Number	Detail Reference To Detail On A-0 Size Drawings
AA, 00	Grid Lines	Elevation Number, Sheet Number	Elevation View Symbol
Detail Number, REF, Ref Label (typ./Sym.), Sheet Number	Building Cross Section	Elevation Name, Height	Elevation Height Symbol
Detail Number, REF, Ref Label (typ./Sym.), Sheet Number	Typ. Wall Section		

WALLS -	LEGEND NAME -	NOTATION LEGEND -	LEGEND NAME -
	Concrete Wall		Steel
	Concrete Fill		Wood Standard
	Gravel Fill		Rigid Insulation
	Earth		Batt Insulation
	Gypsum Plaster		Rock Material
	Plywood		Brick Coarse

7.0
COLOUR CODES

When receiving a master plan drawing, all objects—including lines, points, and annotations—must be assigned the **"ByLayer"** property for both colour and line weight. All objects will initially appear in white. Layer colours may be customized by the user, provided they adhere to the following PSPC standards:

- **Index Colours (1–255)** must be used. True Colours (RGB) are permitted only when colour printing is explicitly required.
- **Colour must not be used to determine line weight**. Line weight is controlled by the line weight attribute or property, not by colour.
- The **default monochrome.ctb plot style table** must be used for printing.
- Object-level overrides for colour and line weight should be minimized.

Colour	Code	Thickness (mm)	Thickness (in)
Red	1	0.180	0.007
Yellow	2	0.254	0.010
Green	3	0.300	0.012
Cyan	4	0.350	0.014
Blue	5	0.500	0.020
Magenta	6	0.600	0.024
White	7	0.700	0.028
Grey	8	0.080	0.003
Dark Red	12	0.800	0.031
Dark Yellow	50	1.000	0.039
Dark Green	106	1.200	0.047
Dark Cyan	151	1.400	0.055
Dark Blue	172	0.180	0.007
Dark Magenta	214	0.254	0.010
Dark Grey	252	0.180	0.007

8.0
DELIVERY OF DRAWINGS

By email - *directions:*

When returning files by email, they must be sent to the following address:

BellDrawings@bgis.com

When sending an email, please write the following information (exactly as shown) in the Subject line:

BGIS Project number _ Location Code-Full address - Project title

☑ **CORRECT**

TO: belldrawings@bgis.com
From:
Subject: N171030773_C11204 – 27 Alma St, Moncton – Power distribution

This guideline is very important as we archive all emails received. This allows us to easily search for information using the project number and/or address.

INCORRECT Will be returned for correction

TO: personal.email@bgis.com
From:
Subject: NEW PROJECT for 27 Alma

For large files, send the plans into sequential emails and mark them as such:

☑ **CORRECT**

TO: belldrawings@bgis.com
From:
Subject: N171030773_C11204 – 27 Alma St, Moncton – Power distribution 1 of 4

9.0
APPENDIX

9.1 ABOUT BELL CANADA'S ARCHIVES

In order to interpret and apply the norms and standards in our drawings, it is essential to understand Bell Canada's system of archives. Following receipt of your project, all pertinent information is entered into Autodesk Vault. The information entered in the Vault includes, and is not limited to the project number, the drawing title, the sequence of drawings, the discipline, etc.

Bell Canada Real Estate has more than 100,000 drawings in its archive, where the oldest ones date back to the 1920's. Project plans dating from before 1998 and which are hand drawn, have been scanned and stored as TIFF files. The TIFF format allows us to keep the maximum quality while having reasonable file sizes. In addition, TIFF files can be viewed on any computer using the Windows operating system.

Windows operating systems can open TIFF files using built-in tools like Microsoft Paint or Microsoft Picture Manager (part of Microsoft Office). This is a simple solution for viewing TIFFs without additional installations.

Do not hesitate to contact us if you need to reference specific plans within your project framework; for example: wall sections and details, structural plans, details of the original generator installation, amongst more. This also applies to all projects made after 1998 with AutoCAD.

9.2 GENERAL NOTES/REMINDERS

9.2.1 At the beginning of a new project, consultants from all disciplines must ask for a new master drawing. This ensures that they will work with the most current information.

9.2.2 You should never crop or delete parts of the master plan. Use the 'Layout' mode in order to isolate sections thereof.

9.2.3 All Bell Canada drawings have an insertion point of 0,0,0 and this should not be modified. The plans are not to be moved as our system is based on this insertion point. Due to this insertion point, all plans, from all disciplines, fit perfectly within the architectural plan. Furthermore, the insertion point allows for our plans to be perfectly aligned within our title blocks A0 and A1.

9.2.4 Some consultants like to work using multiple copies of the architectural plans within model space; for example, *construction & demolition* or *existing & proposed*. This kind of layout is unacceptable since this will move the origin point of the plan. Please work with one single plan, with all information found within it. This is possible due to the layer tool (filter/freeze layers in "Layout" mode). It is very important to use the following system: construction, demolition, existing.

9.2.5 The measurement system for Bell Canada's projects is the metric system, as this unit of measure is mandatory in Canada.

9.2.6 If you create blocks, they must have properties of 'By Layer'. Each element inside the block must be on a standard layer and not on layer 0.

9.2.7 Standard blocks found in the furniture and electrical menus have been created to be able to modify them without having to explode them. Therefore, leave them intact as much as possible as this keeps the drawing light.

9.2.8 Hatches or fills must be set to the layers relating to the corresponding discipline; for example: architecture A-XX-HAT, furniture I-XX-HAT, electrical E-XX-HAT, etc.

9.2.9 The project number, municipal address, BGIS location code, project, date and drawing title must all be included in the title block in order to ease the archiving of drawings.

9.2.10 Bell Canada's title blocks (available online 'Toolbox') must be used for all projects.

9.2.11 Please purge completely your drawings before sending it to us.

9.2.12 The drawings must not contain 3D Items of any kind (3D faces, 3D solids, 3d...)

9.2.13 All structural floor plans shall include floor dead load and live load capacity

9.3 FREQUENTLY ASKED QUESTIONS

Can I create new layers?

Yes, new layers may be created to improve clarity and usability of your drawings. However, all new layers must strictly follow the **PSPC modular alphanumeric naming convention**, which includes five fields separated by hyphens: **Discipline, Group, Single Layer, First Extension, Second Extension**. The first three fields are mandatory. Refer to Annex A of the PSPC National CADD Standard for approved discipline codes and layer structures.

When I use the blocks from the furniture and electrical menus, may I explode them in order to modify them?

No. Blocks provided in the PSPC tool palettes are designed to be **modifiable without exploding**. All necessary modification tools are available via the menu bar or tool palettes. Exploding blocks is discouraged as it introduces unnecessary linework and compromises drawing integrity.
If a block is inadvertently exploded, users must **regroup fragmented elements** and ensure the drawing remains clean and compliant. PSPC's AutoCAD Toolkit includes plugins that support block integrity and compliance checks

Can I modify the title block?

No. Title blocks must remain **unaltered**. PSPC-approved title blocks are inserted in **layout (paper space)** at coordinates (0,0,0) with a scale factor of 1 and rotation angle of 0. Attributes within the title block must be used to input project-specific information. Exploding or modifying the title block geometry is strictly prohibited. [PSPC Natio...D Standard]
Only one title block is permitted per layout, and no entities may exist outside its perimeter. For Bell Canada projects, the title block must conform to the BGIS standard template and include project name, drawing number, and revision history.

9.4 CHECKLIST ☑

Introduction

This document serves as a comprehensive checklist designed to assist in ensuring that all essential items are included in CAD submissions. By following this guide, users can reduce the risk of overlooking critical elements necessary for document approval.

Checklist

☐ Ductwork must be fully represented with two lines.

☐ All layers must be named and capitalized in accordance with Section 4.0 of the BGIS - Bell CAD Standard 8.0.0.

☐ Layers for new construction and demolition must include the correct extensions (N, R, or E) as specified in Section 4.0 of BGIS - Bell CAD Standard 8.0.0.

☐ Layers from other disciplines must be correctly referenced according to Section 4.0 of BGIS - Bell CAD Standard 8.0.0.

☐ All elements must be drawn at zero Z-axis. No 3D elements are permitted.

☐ Only one architectural background is allowed per drawing, as per Section 9.2.4 of the BGIS - Bell CAD Standard 8.0.0. Please work with one single plan, with all information found within it. Do not duplicate the floor plan.

☐ The master floor plan provided must not be altered in any way, such as deleting items outside the scope of work.

☐ All drawings must be set to Metric (Decimal, mm).

☐ Only Bell Canada title blocks can be used.

☐ The title block must include BGIS's project number, address, location code, and the project and drawing titles.

☐ No external references (Xrefs) should be present in the drawing. Xrefs must be bind/insert to the drawing.

☐ The origin point must match the 0,0,0 coordinates from the provided master file.

☐ Each file can only contain one sheet per drawing. If there are more than one, they should be on a separate drawing file.

☐ The project area should be clearly identified in the drawing either by a revision cloud or by hatching out the areas not in contract.

☐ All files must adhere to the naming convention (project number, discipline, page number) outlined in Section 1.0 of the BGIS - Bell CAD Standard 8.0.0.

☐ All blocks must be created in Layer 0.

☐ All drawings must be purged before submission.

☐ Drawings should only be submitted to Bell drawings.

☐ The email subject line when submitting drawings for approval is "Project# - BGIS Location Code – Municipal Address – Project Name" please do not add any more details. Ensure the project name is short.

☐ When zipping your files, keep it simple. Only include the files you need—do not add any folders or other zip files inside. If you're submitting files for different disciplines, make sure to create a separate zip file for each one.

☐ Separate the single line diagram on a separate drawing.

Please reach out to BellDrawings@BGIS.com with any questions.

REVISIONS

081826

8.0.1 – Layer E-SL added & formatting changes