

PWGSC National CADD Standard



Computer Assisted Drafting and Design

Corrected Edition – may 2007



Travaux publics et
Services gouvernementaux
Canada

Public Works and
Government Services
Canada

Canada

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1.0 Introduction

Computer Aided Design and Drafting (CADD) is an integral component of information management for Public Works and Government Services Canada (PWGSC). The production of digital files by CADD is an important corporate asset. The greatest payback for CADD and related technology is in the reuse of the digital data for facilities management and as a foundation for future projects. If CADD files are to be an effective source of information, they must adhere to a standardized set of criteria, which all CADD users will understand.

As an ongoing effort to keep up with changing technology we are pleased to introduce the second edition of the PWGSC national CADD Standards. A concerted effort was made to simplify standards in some areas, but also, to reinforce the standard requirements in areas we feel are critical to our goals. In addition, some of the regions have developed a regional standard, which is to be used as a complement to this national standard.

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For the list of regional contacts, you can also visit the PWGSC CADD Standard Web site at:

<http://www.pwgsc.gc.ca/cadd-standards/text/index-e.html>

1.1 Quality Assurance of CADD Data

PWGSC will carry out Quality Assurance of the delivered CADD data files and printed drawing plans.

The Drafting Quality Assurance Check is a two-part process consisting of the following:

- Digital file review: CADD file is checked for adherence to PWGSC Standards.
- Print mark-up: Hard Copy Print is marked up to relay Design or Drafting related problems that must be corrected.

PWGSC has jurisdiction on all drafting related aspects of the final drawings including but not limited to drawing content, Title Block layout, symbols and font usage continuity throughout a drawing set. All drawings must be completed to the satisfaction of PWGSC.

In the absence of a drawing submission schedule, PWGSC reserves the right to request CADD data files at the midpoint (50%) of the scheduled work to conduct a CADD drafting review.

Note that the content of the digital CADD data file is just as important as the printed content and no drawing will be accepted as final until all issues are resolved. Delivered work that fails to meet any requirement in any of these areas will result in the work being deemed unacceptable. The Consultant/Drafting Service will be required to correct the problem(s) at their cost. Furthermore, PWGSC will exercise its option to withhold payment of the contracted work as set out in the contract terms until the work is made right. Alternatively, PWGSC may, if the Consultant/Drafting Service refuses to correct the problem, make the corrections to the CADD data files and printed drawing plans and deduct the cost thereof from the Consultant/Drafting Service's fee. The Consultant/Drafting Service grants to PWGSC an irrevocable license to make such corrections and use the corrected CADD data files and printed drawing plans as it sees fit. Furthermore, PWGSC reserves the right to make use of the printed drawing plans resulting from the CADD data files with no obligation for payment until the CADD data files are corrected.

1.1.1 Digital File Review

The Lead Technologist will check the digital CADD file to assure adherence to the CADD Standards.

- **Layer Management**

PWGSC Layer Standard must be used. ([See 3.2.](#))

Standard Layer Names must be used.

Entities must be on correct layers.

- **Color Assignment**

PWGSC Colour/Line Weight assignment must be used. ([See 3.2.5.](#))

- **Textstyle Management**

Only Standard AutoCAD® SHX fonts or TTF fonts can be used. ([See 3.4.](#))

- **Dimensions Style Management**

PWGSC naming convention must be used. ([See 3.5.](#))

Associative Dimensions must be used.

- **Linetype Management**

Only Standard AutoCAD® and/or PWGSC linetypes can be used. ([See 3.6.](#))

Linetype display variables must be used correctly.

- **External Referencing**

The use of external references will be authorized only if certain conditions are met. ([see 1.2.1](#))

- **PWGSC Title Blocks and Graphic Scales**

PWGSC Title blocks must be used properly if provided

Title blocks must contain the minimum information ([See 3.7.](#)) if no PWGSC Title block is provided

Graphic Scales or written scale must accompany all Plans, Sections, Details and Elevations, etc.

- **1:1 Metric Model**

Drawing must be modeled at full-size using metric units.

- **Real World Coordinate System**

Maintain Coordinate systems integrity for 2D drawings.

1.1.2 Print Mark-Up

Hard Copies made from the digital files will be marked-up, where required, in red by the Project Manager, Engineer, Architect, Project Drawing Coordinator, Interior Designer and/or Spatial Technologist, etc. and returned to the Consultant/Drafting Service for revision to plans. All marked up items must be corrected.

1.2 Drawing File Format

PWGSC requires all files to be compatible with Microsoft® Operating Systems. The CADD drawing format required for drawings is the AutoCAD® native format DWG file, i.e. they may not be submitted in Adobe® PDF, Autodesk® DWF or other simplified format unless specified in the contract. PWGSC will not supply or accept version formats that are no longer supported by Autodesk®.

1.2.1 External references (XREF)

The use of the external references will be conditionally authorized if the regional appendix of the CADD standard where the work is being performed permits the use of xrefs. When this condition is met, xrefs may only be used in conjunction with the "Sheet Set Manager" to support the transmission of drawing files in a compressed format.

In all the other cases, external references must be converted into blocks (Do not BIND XREFs, instead use BIND INSERT). In no circumstance shall a drawing contain referenced symbols; they must be inserted as blocks.

1.2.2 Raster images

When separate raster images are included in a drawing, all related files containing images and information on coordinates, rotation angles, scaling, etc. (TFW, JGW, SID, etc.) are to be provided. These files are essential for their georeferencing.

1.2.3 Vertical products

Where AutoCAD® objects are used in vertical products such as Autodesk® Architectural Desktop, Autodesk® Building Systems, Autodesk Map® or Autodesk® Land Desktop, appropriate 'object enablers' must be provided to view and manipulate the objects.

1.3 Files delivery

The file transfer must adhere to the following rules:

- Submission and transfer of drawing files will be through E-mail where possible. Where file size exceeds the limit of E-mail, files can be posted to a FTP site or, as a last resort compact disks (CD's) can be delivered to the designated contact person. The predetermined PWGSC public FTP site is:

<ftp://ftp.tpsgc.gc.ca/pub/incoming>

Note that these ftp sites are not secure; therefore, sensitive files must be password protected through a file compression utility such as WinZip or similar compression utility program. After file uploading, email the designated contact person with the following information:

Project Location:

Project Name:

Project Number:

URL/File Name(s):

Zip File Password:

All files are deleted from site every second day. Timely notification is required to ensure file retrieval.

- No files are to be presented as an executable (.exe extension).
- The files should not be protected by a password except in the case of compressed files transmitted via the ftp site as described above.
- The files should not contain any electronic signature.
- The drawing should not contain hyperlinks.

2.0 Project Delivery

2.1 Project Start-up

All project drawings must be created using the standards contained herein. To ensure this, PWGSC will assign a Lead Technologist for each project to provide drawing coordination and Quality Assurance.

Where CADD services will be provided externally, PWGSC requirements will be conveyed to the consultant or CADD service. Pertinent CADD and legacy drawings for the related facility, as well as this document will be provided.

2.1.1 CADD Master File Use

The CADD Master files maintained by PWGSC were drawn from building space measurement surveys. The intent is to use the files for project drawings, and then PWGSC will be in charge of updating the Master files once the project is completed and the area affected is re-measured.

Existing digital information, when available, is used to form the foundation for new project drawings. Any areas critical to the project should be verified by field checking. New digital drawing files created must be modified to include the most up-to-date information to the standards contained herein. Older legacy CADD data, used in new drawing files, must be updated to current standards. The extent of verification/updating of the existing digital files should be addressed at the start-up meeting. All new work must meet this standard irrespective of the condition of any existing files provided at the outset of work. [See section 4](#) for information on file naming.

2.1.2 Template Drawing

The template drawing is set for the default metric units, text styles and dimension styles. Recognizing the differences between engineering drawings and architectural drawings, the templates are provided with dimension styles, lettering for multiple disciplines.

2.2 Work in Progress

All work in progress shall be backed up daily. PWGSC draft services must copy the local project directory to a network server project directory daily at minimum.

Digital files of drawings developed through consultants or other external CADD services shall be saved to working directories by the Lead Technologist at time of receipt and reviewed for compliance with the standards contained in this document. The CADD service shall maintain the drawings in their own project directory until all drawings for the project are completed, verified and accepted by PWGSC.

2.3 Production of Contract Drawings

The following formats should be applied if no provincial laws are applicable.

Drawing sheet size will conform to the following:

Sheet Designation	Overall Size (mm)
B1	707 x 1000
A0	841 x 1189
A1	594 x 841
A2	420 x 594
A3 (11x17 Tabloid)	297 x 420
A4 (Letter Landscape)	210 x 297
A4 (Letter Portrait)	297 x 210

NOTE: The paper size naming may vary depending on printer drivers.

NOTE: When drawings larger than 860 x 1120 or A0 are required, it is recommended that drawings be used having a width of 860 or 841 and a length in increments of 150. Digital files of standard PWGSC or Client Title Block formats will be provided in required standard sizes and must not be altered or modified without authorization.

2.4 Copyright

The Copyright Act protects all works (including drawings, charts, photos, etc.) from being copied without permission. Copying a work is called 'copyright infringement'. Copying including 'cutting and pasting', reproducing, publishing or transmitting) any work without permission *by any means* is considered copyright infringement. All work is copyright protected even if it does not explicitly say so.

Without prejudice to any rights or privileges of the Crown, where any work is, or has been, prepared or published by or under the direction or control of Her Majesty or any government department, the copyright in the work shall, subject to any agreement with the author, belong to Her Majesty. The copyrights ownership can also be transferred to the client by written contract. Use of any PWGSC content without permission, in whole or in part, is strictly forbidden.

3.0 PWGSC Computer Aided Drafting Standards

The standards described in this section are general standards and, in the context of a request for proposal, specific instructions can be added or can modify these.

3.1 File Presentation

Files presented must conform to the following rules:

- A drawing must be purged of all definitions that are not used such as: layer names, text styles, dimension styles, layer filters, blocks, etc.
- A drawing must not contain any object definitions without geometry such as, for example, empty text or blocks without objects.
- No objects should reside on layer "0" or DEFPOINTS except for objects contained in a block definition and the dimensions.
- A drawing must not contain any errors that are detectable using the Audit command.

All presented files must also adhere to the following rules of best practice:

- When appropriate to the type of drawing, lines must be drawn in an orthogonal mode.
- All vectors must be drawn with closed corners.
- The drawing must be saved such as to be printed without any page setup. The main layout must be active and all the viewports adjusted and locked to the correct scale.

3.2 Layering Standards

[See Annex A](#) for the complete layer list.

[See Annex B](#) for extension descriptions.

3.2.1 Sorting Graphic Data into Related Data Groups

Layers are used to sort the data types being depicted by the line work (Not to sort lineweights, linetypes, colours or other schemes). This is the only way to identify what entities on a graphic screen are supposed to represent without resorting to annotations. (i.e. does a rectangle represent a building outline, a concrete pad, a storage tank or is it an annotation box?). The PWGSC Layering Standards must be used to create the layers to accommodate these groupings of related data.

To simplify the Layering, drawing data can be broken into two major groupings, Principal Data and Supporting Data. The level of complexity and number of layers required for the two groups is significantly different.

3.2.2 Principal Data

Principal Data is contained mainly on the plan views of the facility, i.e., Base Plan, Floor Plan, Site Plan, etc. This type of data requires strict adherence to layer naming and proper grouping of data. The line work that is used to depict facility components must always be drawn using the most up-to-date accurate information available. Line work depicting objects must be placed on the proper standard layer according to the data type being represented by the line work. For example, on a Floor Plan, the walls, doors, windows, and bathroom fixtures must have separate layers.

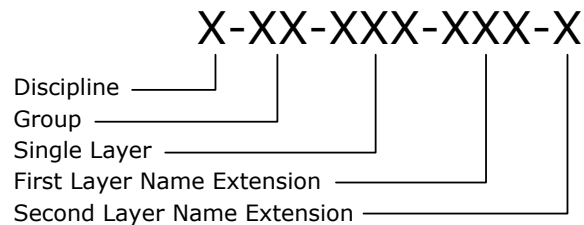
3.2.3 Supporting Data

Supporting Data is made up of Sections, Details, Elevations, Schedules and Legends, Title Blocks, etc. This type of data requires minimal layering breakdown. Line work in a detail representing different components does not need to be placed on separate layers. For example, a building construction detail can be drawn with a foundation wall, frame wall, floors, and roof line work on a single layer, although the dimensions, annotation and hatching should be separated.

3.2.4 Layering Naming Convention

Layering of CADD information must adhere to the following Layering Naming Convention. The layer is the basic tool for organizing and managing graphic information. Layers are used to sort graphic objects into groupings of related data. PWGSC has developed a modular, alphanumeric layer nomenclature format that is designed to sort this data in a specific manner.

The layer name structure consists of 5 fields separated by hyphens. The first 3 fields, consisting of the discipline, group and single layer fields, are mandatory while the last 2 are optional fields allowing a more precise identification where necessary. [See Annex B](#) for Field Descriptions.



Discipline Field X-XX-XXX

The Discipline Field identifies the discipline responsible for the layer content. Where an object cannot be associated with a specific discipline, or is applicable to all disciplines, the special General Information Field "G" may be used.

Discipline Fields:

A	Architecture
B	Bridge Engineering
C	Civil Engineering, Site work and Landscaping
E	Electrical Systems
G	General Information
H	Mechanical
I	Interior Design
L	Legal Surveys
M	Marine
R	Real Property Space Management
S	Structure

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Group Field X-**XX**-XXX

The Group Field identifies groupings of common types of drawing information relevant to each discipline. The Group Fields defined for each Discipline Field are listed in the Standard Layer List found in [Annex A](#). A detailed list of the group fields is also described in [Annex B](#). In addition to the Group Fields defined in the Standard Layer List there are some common Group Fields to place supporting graphic data such as sections and details, etc.

Common Group Fields for all disciplines

DT	Details
EV	Elevations
GL	Global
GR	Grid Lines, Grid Marks
LG	Legend
PL	Plan
SC	Schedules
ST	Sections
TL	Title Blocks

Single Layer Field X-XX-**XXX**

The Single Layer Field subdivides the classifications created by the Discipline and Group Fields to identify each layer more precisely. The Single Layer Fields defined for Group Fields under each Discipline Field are listed in the Standard Layer List ([see Annex A](#)) and described in the Layer Field Description ([see Annex B](#)).

First Layer Name Extension X-XX-XXX-**XXX**-X

The First Layer Name Extension allows information pertaining to Physical Properties, Materials, Graphics and Text to be included. The extensions may be used with any valid layer from the Standard Layer List. They may also be used as a Single Layer Field value where appropriate.

Common Group Fields for all disciplines

Physical Properties:

ABV	Above Ground, Above Grade
EME	Emergency
EQP	Equipment
EXT	Exterior
HOR	Horizontal
INT	Interior
NOD	Node, Horizontal Reference Point
OPN	Opening
UND	Underground, Below Grade
VER	Vertical

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Materials:

ASP	Asphalt
BLK	Block
BRK	Brick
CAR	Carpet
CON	Concrete
FIN	Finish
INS	Insulation
STL	Steel
STO	Stone
TIM	Timber
TIL	Tile

Graphics:

3DM	3D Model Components of 2D Symbols
CLN	Construction Lines, Temporary Aids
CLR	Colors
DIG	Digitized or Vectorized from Scanned Image
HAT	Hatching
LIN	Line work
OLN	Outlines
PRO	Profiles
SPC	Special
SYM	Symbols, Bubbles, Detail Notation, Bar Scales
TAB	Tables
TMP	Temporary

Texts:

ATT	Attributes
DIM	Dimensions
IDN	Identification Numbers or Names
RME	Read-Me Files
SPT	Spot Elevations
TXT	Text, Notations

Second Layer Name Extension

X-XX-XXX-XXX-**X**

The Second Layer Name Extension allows information pertaining to Geometry, Construction, Status, Second Language and Numerical Options to be included. The extensions may be used with any valid layer from the Standard Layer List.

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Valid Layer Name Formats

Only 4 variants of the layer name format will be accepted, as indicated below:

	Required :	
_____	Discipline Field :	Architecture
_____	Group Field :	Walls
_____	Single Layer Field or First Layer Name Extension :	Exterior
A-WL-EXT	Optional:	
A-WL-EXT-BRK	Second Layer Name Extension :	Brick
A-WL-EXT-E	First Layer Name Extension :	Existing
A-WL-EXT-BRK-E	Second Layer Name Extension :	Existing

Note: Add an underscore character at the end of a valid layer name to append free text to the layer name e.g.

M-SN-SPT_-1.0 Soundings at -1.0m depth

M-SN-HWL_January 14, 1990 High Water Line at specific date

Note: Where plans are specifically titled "New" (or "Existing") the N (or E) Construction Status Extension layer modifier may be omitted, but all disparate Construction Status Extensions must be included.

Existing Floor Plan Example:

A-WL-INT-N	Architectural Wall Interior New	Interior Walls New
A-WL-INT-X	Architectural Wall Interior Remove	Interior Walls To Be Removed
A-WL-OLN	Architectural Wall Outline Exterior	Building Outline (Existing Implied)
A-DR-INT	Architectural Door Interior	Interior Doors (Existing Implied)
A-DR-INT-N	Architectural Door Interior New	Interior Doors New
A-WD-EXT	Architectural Window Exterior	Exterior Windows (Existing Implied)
H-PF-FIX	Mechanical Plumbing Fixtures	Toilets, Bathtubs, etc. (Existing Implied)

Note: When a symbol is placed to represent an object, it must be placed on a symbol layer, as in the following examples.

Symbols Example:

E-SD-SYM	Electrical-Site-Dist. Symbols	Power Pole Symbol, Luminary Symbol, etc.
G-GL-SYM	General-Global-Symbols	Symbols, key plan, north arrow, bar scale

Note: Dimensions, annotation and hatching should be separated as indicated in the example below. Colour should be set "bylayer" for the majority of entities on a layer and specifically where necessary to obtain varying line weights in that layer.

Detail Example:

A-DT-LIN	Architectural-Detail-Line work	Wall, Floor and Roof Line work
A-DT-TXT	Architectural-Detail-Text	Annotations, Title, Graphic Scale, etc.
A-DT-DIM	Architectural-Detail-Dimensions	Dimensions
A-DT-HAT	Architectural-Detail-Hatching	Hatching - Insulation, Wood Grain, etc.

Schedule Example:

A-SC-LIN	Architectural-Schedule-Line work	Schedule Grid or Line work
A-SC-TXT	Architectural-Schedule-Text	Schedule Data, Annotation

Supporting Data can also appear on plan views:

H-PL-TXT	Mechanical-Plan-Text	Titles, Graphic Scale, Annotation Bubbles
S-PL-DIM	Structural-Plan-Dimensions	Dimensions

3.2.5 Colour Assignment Standard: Layer Colours and Pen Weights

Colour is to be used as a method of defining line weight to the plotter. Layers must be assigned appropriate colours and entities should be created with colour "bylayer" where possible, except as provided for in the creation of symbols.

Suggested Line Weight Settings:

Extra Thin - 0.100mm

Centre Lines / Axis

Grid Lines

Thin - 0.15 to 0.250mm

Dimension Lines	Phantom Lines	Intermediate Contour Lines
Hatching	Text - Normal	Leader and Extension Lines

Medium - 0.300mm to 0.500mm

Hidden Lines	Text - Sub Headings
Index Contour Line	Visible Object Outlines

Thick - 0.700mm Cutting/

Cutting/	Match Lines/	Section Lines
Viewing Planes	Reference Lines	Text - Titles/Major Headings

Extra Thick - 1.000mm

Title Sheet Border

3.2.6 Provision for Creation of New Layers

As all possibilities are not covered in the existing layer list, it is possible (and necessary) to create new layer names for some objects. As in the preceding example for E-SD-SYM, a quick look in the Electrical Layers list would indicate that this layer is invalid, however; it was acceptably created by adding an existing *First Layer Name Extension* to an existing *Discipline-Group Field*. The rules for creation of new layers are:

- a) Proper Standard Layer for object must not already exist
- b) Must follow standard format
- c) Must use existing Discipline Group **E-SD-SYM**
- d) Must use existing Group field **E-SD-SYM**
- e) Must use existing 3 character grouping from
Single Layer Field or First Layer Name Extension **E-SD-SYM**

3.3 Blocks Standards

AutoCAD® blocks are used to group entities. These graphic blocks shall **not** be exploded. Blocks representing simple objects or simple symbols shall not contain nested blocks (blocks made of blocks). The use of groups is preferable when grouping blocks together, for example, a table with chairs around. Most symbols should be created with linetype and colour "Byblock". This allows complete control over the appearance of the symbol. By default the symbol will take on the properties of the layer it is placed on but it can be changed to suit requirements independent of the layer settings.

There is two different ways for creation and insertion of AutoCAD® blocks with basic rules for creating each:

1. **Simple** blocks with one data type, e.g., toilet fixtures, furniture

- a) Created on layer "0"
- b) Must be inserted on proper layer, e.g., toilet block inserted on layer H-PF-FIX

2. **Complex** graphics requiring use of multiple data types

- a) Each data type is created on its' proper layer
- b) Colour and linetype must be "Bylayer" or "Byblock" so that colour and linetype may be assigned to the symbol regardless of the layer properties the symbol is inserted on, e.g. title blocks created with objects on different layers

There are also three different types of objects that could be represented by AutoCAD® blocks: real, common and symbol.

3.3.1 Real Blocks Object

They are AutoCAD® blocks that are dimensionally accurate pictorial representations of real objects. A real object block may be a simplified representation of a building component or assembly such a desk or chair, etc. Basic rules for the creation of real block must be followed:

- a) Objects must be created full size
- b) Blocks must be inserted with 1 by 1 scale into model space

Drawing scale does not affect insertion of real blocks as they are created at full size and inserted into full size drawings.

3.3.2 Common Block Objects

They are AutoCAD® blocks that also represent real objects but they could be scaled to represent different size objects such doors, round tables, etc. Basic rules for the creation of common block must be followed:

- a) Objects must be created inside a 1 by 1 square
- b) Blocks must be inserted using the real dimensions of the objects they represent into model space.

Drawing scale does not affect insertion of common blocks, as they are inserted full size.

3.3.3 Symbol Objects

Symbols are AutoCAD® blocks that are pictorial representations of objects not drawn to scale, such as an electrical outlet symbol. Drawing scale affects symbols in the same manner as annotation and therefore must be inserted into a working drawing at a scale factor corresponding to the drawing or plot scale as required.

Basic rules for the creation of symbols must be followed:

- a) Symbols should be drawn at actual plotted size and not smaller than 2.5mm
- b) Symbols should be inserted using the plotted scale if they are inserted in model space and 1 if they are inserted in paper space (layout) i.e. 50x on a 1:50 floor plan in model space or 1x on a 1:1 drawing sheet in paper space.

3.3.4 Block Library

Taking into account the specific needs of each project and the huge diversity, there is no national block library.

- a) If a block library is provided with a project, the consultant/draft service must use it.
- b) All the blocks should be created respecting the rules described.
- c) Use of blocks should be uniform throughout each project drawing set.
- d) If no blocks are provided, the consultant/draft service must get their library pre-approved by the Lead Technologist.

3.3.5 Block Naming

A good structure for block naming is very important to allow the creation of schedules, inventories, legends, etc. If the consultant/draft services use their own library, they have to use a pertinent naming convention that must be pre-approved by the Lead Technologist.

3.4 Text Style Standards

Text styles for use in drawings must be created using Standard AutoCAD® SHX or TTF font files. Text style usage should be uniform throughout each project drawing set and will be determined in collaboration with the Lead Technologist.

Height of these text styles must be set to 0 (not fixed) so it could be changed to suit different scaling requirements.

All French characters should be accented whether upper or lower case.

3.4.1 Text Styles Naming

Text style names should reflect the information below:

- Usage
- Font name
- Any other special effects (if required)

Examples:

NOTES_SIMPLEX	Text style with SIMPLEX used for notes
TITLE_ARIAL_WF-1.2	Text style with ARIAL and width factor 1.2 used for titles
SPECIAL_SIMPLEX_OA-20	Text style with SIMPLEX, oblique angle 20 used for special notes

3.4.2 Text height

Standard text height for:

Notes, dimensions, annotations, etc.	2.5mm
Major headings	5.0mm
Sub headings	3.5mm.

Text smaller than 2.5mm can only be used under special conditions and must have PWGSC approval. [See table 3.8.1.](#)

3.5 Dimension Styles Standards

All dimensioning must be created on entities in model space with associative dimensions. Two dimensioning formats are used to cover most applications for PWGSC projects:

- Engineering with arrowheads for dimension terminators.
- Architectural with ticks for dimension terminators.

3.5.1 Dimension Style Naming

Dimension style usage should be uniform throughout each project drawing set. Using dimensions styles reduces the time necessary to create, edit and maintain dimensions. Dimension styles are created by specifying values for a number of dimension variables and saving the style with a unique name. The dimension style controls the appearance of all the dimensions created while the dimension style is active. Changes to the dimension style will automatically be reflected in the associated dimensions.

Using of override properties is not allowed and the dimensions must be associative. A new dimension style should be created to work with different properties.

The dimension style names have the following format:

Examples:

A_50MM	Normal Architectural dimension for floor plans
A_50MM_0	Architectural dimension with no extension lines to dimension to grid lines
E_1000M	Normal Engineering dimension for site plans with metres as base unit

3.6 Linetype Standards

The appearance of linetypes in the drawing is determined by the system variables LTSCALE, PSLTSCALE, and MEASUREMENT.

The MEASUREMENT variable determines which linetype description file to use for linetype loading:

- "1" sets the default file to the **metric** unit file **acadiso.lin**.
- "0" sets the default file to the **imperial** unit file **acad.lin** and must not be used.
- The LTSCALE variable sets the global linetype scale factor.

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- The PSLTSCALE controls linetype appearance in paper space.

For consistent linetype appearance and plotting results, the required values for the variables are as follows:

1. Final Drawings: Title sheet in Paper Space with multiple, variously scaled, VIEWPORTS.

- a) MEASUREMENT=1
- b) LTSCALE= approximately 1 (see note 1)
- c) PSLTSCALE=1 (On)

2. In Progress: Work from Model Space (not to be used for final Drawing Submission)

- a) MEASUREMENT = 1
- b) LTSCALE= Plot scale value for final drawing (see note 2)
PSLTSCALE=0 (Off)

Do not set Linetype scale at the entity level. The *Current Object Scale* in the Linetype Properties dialog box (System Variable CELTSCALE) must be set to 1.0 to ensure that the creation of new entities do not have entity level linetype scaling.

Note 1: The LTSCALE value should be equal to 1 while printing in paper space but it could be slightly higher or lower if the linetypes provided are too large or too small.

Note 2: The LTSCALE value should be equal to the plot scale while working in model space but it could be slightly higher or lower if the linetypes provided are too large or too small.

Drawings must not contain linetypes or complex linetypes other than those defined in the ACADISO.LIN file supplied with AutoCAD® or other linetypes supplied by PWGSC. The linetypes contained in the ACAD.LIN file should not be used because they are drawn to be used with imperial drawings.

3.7 Title Blocks and Graphic Scales

3.7.1 Title Block Set-up

Completed Drawings must adhere to the following composition standard:

- a) Drawings are to be modeled at full scale (real world units) in Model Space, with text, symbols, hatch patterns and line widths adjusted by scale factor required.
- b) Title Block sheets must always be inserted in a Layout (Paper Space) at 0,0,0 with scale factor of 1 and rotation angle of 0.
- c) Model Space graphics must appear in the layout in correctly scaled VIEWPORTS
- d) Only one (1) Title Block per Layout.
- e) Titleblock is not to be exploded. The titleblock information is entered as prompted through the attribute dialog box or prompts.

3.7.2 Information in Title Blocks

All project drawings must be compiled on standard sheets and must be in accordance with the PWGSC corporate identity. The Lead Technologist for each project will coordinate the size of the sheet to be used, provide a standard Title Block and the content of the title block fields.

Each title block must contain the information below:

- a) Project name
- b) Address
- c) Drawing name e.g. Floor plan, building
- d) Measured or Designed by and date
- e) Drawn by and date
- f) Approved by and date
- g) Project manager
- h) Project number
- i) Tender
- j) Drawing number
- k) Revision chart
- l) Consultant or draft service identification
- m) North arrow
- n) Site plan (if pertinent)

3.7.3 Drawing Scales

To facilitate scaling from reduced or enlarged reproductions, each plan, section, detail, elevation, profile, etc., on a completed drawing sheet shall be accompanied by a Graphic Scale or text that specifies the scale e.g. 1:100. The graphic scale shall be located immediately below the pertinent heading in Model space.

3.8 Systems of Measurement and Preferred Scales

The International System of Units (S.I.) must be used to prepare all drawings. The unit for linear dimensioning is the millimetre, except where the scope of the drawing requires the use of the metre, such as in site plans. Integers shall indicate millimetres, e.g., 435, 4300, etc.; and decimal numbers with three decimal places shall indicate metres, e.g., 5.435, 4.300, etc. All other dimensions and notations should be followed by the unit symbol.

3.8.1 Drawing scales examples

Plot Scale	Text Sizes		LTSCALE (Approx. Suggested value)	LTSCALE (Paper Space)
	Notes	Headings	DIMSCALE (Model Space)	
1:1	2.5	5	1	1
1:2	5	10	2	1
1: 5	12.5	25	5	1
1:10	25	50	10	1
1:20	50	100	20	1
1:25	62.5	125	25	1
1:50	125	250	50	1
1:100	250	500	100	1
1:200	500	1000	200	1
1:250	625	1250	250	1
1:500	1250	2500	500	1
1:1000	2500	5000	1000	1
1:2000	5000	10000	2000	1
1:5000	12500	25000	5000	1

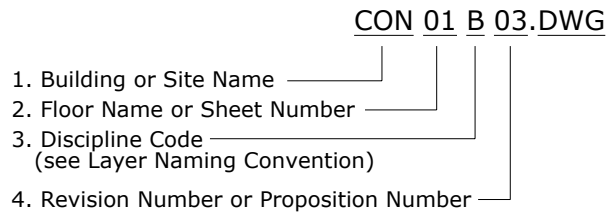
4.0 Drawing File Naming Conventions

All CADD information submitted must be arranged in a logical format so it can be easily accessed and modified by the user. This standard provides a framework for the information and will assist in data entry, manipulation, storage and retrieval at different stages of the design and operation of the facility over its life cycle.

A pertinent file naming structure has to be use throughout each project drawing set.

Example:

Architectural master plans



Site master plans



Annex A – CADD Layers

ARCHITECTURAL

English Abbv.	Description	French Abbv.
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, stair wells, and ladders	A-CI-ESC
A-CI-STR-ESC	Escalators	A-CI-ESC-ROU
A-CL	Ceilings	A-PF
A-CL-BKH	Bulkheads	A-PF-GYP
A-CL-FIN	Finishes	A-PF-FIN
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-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-NUI
A-DR-INT-PAR	Interior doors in a partition wall	A-PO-INT-CLS
A-EM	Emergency	A-UR
A-EM-COR-HAT	Corridor hatching	A-UR-COR-HAC
A-EM-COR-OLN	Corridor outline	A-UR-COR-CON
A-EM-OLN	General outline	A-UR-CON
A-EM-OLN-HAT	General hatching	A-UR-CON-HAC
A-EM-STR-HAT	Staircase hatching	A-UR-ESC-HAC
A-EM-STR-OLN	Staircase outline	A-UR-ESC-CON
A-EM-TXT	Text	A-UR-TEX
A-EM-WAL-HAT	Wall hatching	A-UR-MUR-HAC
A-EM-WAL-OLN	Wall outline	A-UR-MUR-CON
A-FL	Floors	A-PC
A-FL-CTP	Counter tops	A-PC-CMP
A-FL-CTP-PAR	Counter tops 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-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

CADD Standard

A-GL	General	A-GL
A-GL-ATT	Attributes	<i>A-GL-ATT</i>
A-GL-CLN	Under construction lines, temporary aids	<i>A-GL-TEM</i>
A-GL-DIM	General architectural dimensions	<i>A-GL-DIM</i>
A-GL-IDN	Identification, elevation points	<i>A-GL-NUI</i>
A-GL-RME	Read Me general drawing info.	<i>A-GL-LIS</i>
A-GL-TXT	General text (street names)	<i>A-GL-TEX</i>
A-PL	Plan Information	A-PN
A-PL-OLN	Open-to-Below plan information outline	<i>A-PN-CON</i>
A-RF	Roofs	A-TO
A-RF-OLN	Roofs edge and features	<i>A-TO-CON</i>
A-RF-OPN	Roof openings for fans, stacks and ducts	<i>A-TO-OUV</i>
A-RF-OVH	Overhead items, roof above, canopies, soffits	<i>A-TO-SUR</i>
A-RF-WLK	Roof boardwalks, catwalks	<i>A-TO-PAS</i>
A-WD	Windows	A-FN
A-WD-EXT	Exterior window panes and frames	<i>A-FN-EXT</i>
A-WD-INT	Interior window panes and frames, side windows	<i>A-FN-INT</i>
A-WD-INT-PAR	Interior windows in a partition wall	<i>A-FN-INT-CLS</i>
A-WD-OVH	Overhead windows, skylights	<i>A-FN-SUR</i>
A-WD-SIL	Window sills	<i>A-FN-ALL</i>
A-WL	Non-Structural Walls	A-MU
A-WL-ACC	Architectural or protection elements, guards	<i>A-MU-ACC</i>
A-WL-ACC-BRF	Barrier-free accessories (grab bars, etc.)	<i>A-MU-ACC-ACF</i>
A-WL-EXT	Exterior walls	<i>A-MU-EXT</i>
A-WL-EXT-HAT	Exterior walls hatching	<i>A-MU-EXT-HAC</i>
A-WL-FIN	Wall finishes	<i>A-MU-FIN</i>
A-WL-HED	Door and window headers	<i>A-MU-LIN</i>
A-WL-HED-PAR	Door and window headers on partition	<i>A-MU-LIN-CLS</i>
A-WL-INT	Interior walls	<i>A-MU-INT</i>
A-WL-INT-LOW	Interior walls - low walls	<i>A-MU-INT-BAS</i>
A-WL-INT-LOW-PAR	Interior partitions - low walls	<i>A-MU-INT-BAS-CLS</i>
A-WL-INT-PAR	Interior partition walls	<i>A-MU-INT-CLS</i>
A-WL-OLN	Wall outlines, building footprints, sheds, etc.	<i>A-MU-CON</i>
A-WL-WRM	Washroom partitions	<i>A-MU-SAB</i>

CADD Standard

BRIDGE ENGINEERING

Layer Name	Description	
B-AP	Approach Slabs	B-DA
B-AP-PLN	Approach slabs in plan view	B-DA-PLN
B-DK	Bridge deck and components	B-TA
B-DK-BAR	Barriers, railings	B-TA-BAR
B-DK-CRB	Curbs, sidewalks	B-TA-BOR
B-DK-DDR	Deck drains	B-TA-AVT
B-DK-DEK	Deck plan	B-TA-PLN
B-DK-EXJ	Expansion joints	B-TA-JOC
B-DK-REB	Deck reinforcing	B-TA-ACR
B-DK-STG	Steel grating	B-TA-GRI
B-GL	General	B-GL
B-GL-DIM	Dimensions	B-GL-DIM
B-GL-HAT	Hatching	B-GL-HAC
B-GL-LAY	Layout line work	B-GL-TRI
B-GL-TXT	Text	B-GL-TEX
B-SB	Substructure	B-SO
B-SB-ABU	Abutments	B-SO-CUL
B-SB-APR	Approach slabs	B-SO-APR
B-SB-BRG	Bearing	B-SO-POR
B-SB-FTG	Footing	B-SO-SEM
B-SB-LIN	Bearing plan line work	B-SO-TRI
B-SB-PIR	Piers	B-SO-PIL
B-SB-REB	Substructure reinforcing	B-SO-ACR
B-SR	Scour Protection	B-PA
B-SR-GAB	Gabions	B-PA-GAB
B-SR-RRP	Riprap	B-PA-PIR
B-SS	Superstructure	B-SP
B-SS-BEM	Beams	B-SP-POU
B-SS-BRC	Bracing	B-SP-ENT
B-SS-CAT	Catwalks	B-SP-PAS
B-SS-REB	Superstructure reinforcing	B-SP-ACR
B-SS-SNL	Stringers	B-SP-LON

CADD Standard

CIVIL ENGINEERING

English Abbv.	Description	French Abbv.
C-BH	Borehole Data (geotechnical)	C-FO
C-BH-IDN	Borehole identification numbers	C-FO-NUI
C-BH-LOG	Borehole logs and data	C-FO-SCH
C-BH-MON	Geotechnical monitoring wells	C-FO-PUA
C-BH-SMP	Soil sample locations	C-FO-SON
C-BH-STP	Stratigraphic profiles	C-FO-STR
C-GF	Gases and Fuels	C-GC
C-GF-DPI	Diesel fuel pipelines	C-GC-PIP-DIE
C-GF-DSE	Diesel fuel valves, manholes, meters, storage	C-GC-EQU-DIE
C-GF-NPI	Natural gas pipelines	C-GC-PIP-GAN
C-GF-NSE	Natural gas valves, manholes, meters, storage	C-GC-EQU-GAN
C-GF-OPI	Oil pipelines	C-GC-PIP-PET
C-GF-OSE	Oil valves, manholes, meters, storage	C-GC-EQU-PET
C-GF-PPI	Propane pipelines	C-GC-PIP-PRO
C-GF-PSE	Propane valves, manholes, meters, storage	C-GC-EQU-PRO
C-GF-TXT	Gas and oil text, description	C-GC-TEX
C-GL	General	C-GL
C-GL-PIC	Inserted pictures	C-GL-IMA
C-HY	Hydrology	C-HY
C-HY-CAT	Catchments area	C-HY-BAV
C-HY-DRA	Drainage area	C-HY-DRA
C-HY-FLO	Flow, discharge	C-HY-ECO
C-HY-ICE	Ice thickness	C-HY-GLA
C-LD	Landscaping	C-AX
C-LD-ART	Artwork, special features	C-AX-OBA
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-LWN	Lawn area	C-AX-PEL
C-LD-PLT	Plant materials	C-AX-PLT
C-LD-SPO	Equipment, sports facilities, goal nets, shooting targets, etc.	C-AX-EQU
C-LD-TER	Terraces, courtyards, patios	C-AX-TER
C-LD-TXT	Descriptive information text	C-AX-TEX
C-PR	Profile Data	C-PR
C-PR-HOR	Horizontal profiles	C-PR-HOR
C-PR-VER	Vertical profiles	C-PR-VER

CADD Standard

C-RO	Roads	C-RO
C-RO-ACR	Fire department access routes	<i>C-RO-URG</i>
C-RO-ALI	Alignment	<i>C-RO-TRC</i>
C-RO-BRG	Bridges, overpasses, etc.	<i>C-RO-PON</i>
C-RO-CLI	Road centreline	<i>C-RO-MED</i>
C-RO-CON	Highway construction staging	<i>C-RO-OCC</i>
C-RO-CRB	Curbs	<i>C-RO-BOR</i>
C-RO-GRL	Guides, guard rails, median dividers, bollards	<i>C-RO-PRT</i>
C-RO-GUT	Gutter lines	<i>C-RO-CAN</i>
C-RO-HWY	Highway plan	<i>C-RO-TRR</i>
C-RO-MRK	Markings and road striping	<i>C-RO-MAC</i>
C-RO-MSH	Mass hauling diagrams	<i>C-RO-SCH</i>
C-RO-RMP	Ramps, on-ramps, loading docks, etc.	<i>C-RO-RAM</i>
C-RO-ROD	Drivable road limits (asphalt) road, lots	<i>C-RO-LIM</i>
C-RO-ROD-APP	Drivable road limits' approximate location	<i>C-RO-LIM-APP</i>
C-RO-STG	Staging layout plan	<i>C-RO-PHA</i>
C-RO-STR	Bridge abutments and piers, and supports	<i>C-RO-PIL</i>
C-RO-TUN	Road tunnels, underpasses, etc.	<i>C-RO-TUN</i>
C-RO-TXT	Road description, information text	<i>C-RO-TEX</i>
C-RW	Railways	C-CF
C-RW-ALI	Alignment	<i>C-CF-TRC</i>
C-RW-BRG	Bridges	<i>C-CF-PON</i>
C-RW-CLI	Rail centrelines	<i>C-CF-MED</i>
C-RW-RAI	Railway lines, switches	<i>C-CF-DIA</i>
C-RW-RMP	Ramps	<i>C-CF-RAM</i>
C-RW-STR	Bridge abutments, piers, trestles and supports	<i>C-CF-PIL</i>
C-RW-TUN	Tunnels	<i>C-CF-TUN</i>
C-SA	Sanitary Sewer	C-ES
C-SA-ABN	Abandoned sanitary sewer lines	<i>C-ES-ABN</i>
C-SA-CMB-MLI	Combined main sewer lines	<i>C-ES-CMB-PRI</i>
C-SA-CMB-SLI	Combined service sewer lines	<i>C-ES-CMB-SEV</i>
C-SA-DRA	Drainage catch areas	<i>C-ES-BAV</i>
C-SA-IOT	Sanitary inlet outlet structure	<i>C-ES-SES</i>
C-SA-JUN	Junction symbols	<i>C-ES-SYM</i>
C-SA-JUN-IDN	Text description - type of junction	<i>C-ES-SYM-TEX</i>
C-SA-MAN	Sewer manholes, catch basins, pumping stations	<i>C-ES-PUA</i>
C-SA-MAN-IDN	Text regarding t/g elevation, inverts elevation, etc.	<i>C-ES-PUA-TEX</i>
C-SA-MLI	Sanitary main sewer lines	<i>C-ES-PRI</i>
C-SA-SEW	Sanitary sewer	<i>C-ES-EGO</i>
C-SA-SLI	Sanitary service sewer lines	<i>C-ES-SEV</i>
C-SA-TMT	Sewage treatment areas	<i>C-ES-TEU</i>
C-SA-TXT	General text: length of sewer, slope, material, etc.	<i>C-ES-TEX</i>

CADD Standard

C-SF	Site Features	C-CS
C-SF-ARM	Erosion control, armourstone, riprap	C-CS-PIR
C-SF-BRG	Foot bridges	C-CS-PAS
C-SF-CON	Concrete features, slabs	C-CS-GRA
C-SF-DBR	Debris, rubble, loose rock and soil	C-CS-DEB
C-SF-FEN	Fencing	C-CS-CLO
C-SF-MAR	Marshes, wetlands	C-CS-TEH
C-SF-RWL	Retaining walls	C-CS-SOU
C-SF-STR	Stairs not attached to buildings	C-CS-ESC
C-SF-SWK	Sidewalks	C-CS-TRO
C-SF-TRE	Trees, tree lines	C-CS-ARB
C-SF-TRE-TXT	Text describing trees	C-CS-ARB-TEX
C-SF-TRL	Trails, footpaths	C-CS-SEN
C-SF-TUN	Utility, pedestrian service tunnels	C-CS-TUN
C-SF-TXT	Site feature description text	C-CS-TEX
C-SF-WTR	Watercourses, shorelines	C-CS-LBM
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
C-SI-TXT	Signage text	C-SI-TEX
C-SM	Storm Drainage & Systems	C-EP
C-SM-ABN	Abandoned storm sewer lines	C-EP-EGO-ABN
C-SM-CUL	Culverts	C-EP-PON
C-SM-DCL	Ditch centre lines	C-EP-MED
C-SM-DRA	Drainage catchments areas	C-EP-BAV
C-SM-IOT	Storm inlet outlet structure	C-EP-SES
C-SM-JUN	Junction symbols	C-EP-SYM
C-SM-JUN-IDN	Junction description text	C-EP-SYM-TEX
C-SM-MAN	Catch basins, manholes, pumping stations	C-EP-PUA
C-SM-MAN-IDN	Manhole description text; elevation, direction	C-EP-PUA-TEX
C-SM-MLI	Storm main sewer lines	C-EP-EGO-PRI
C-SM-MNG	Storm water management pond	C-EP-BSN
C-SM-SEW	Storm sewer	C-EP-EGO
C-SM-SLI	Storm service sewer lines	C-EP-EGO-SEV
C-SM-SUB	Subdrains	C-EP-DRA
C-SM-TXT	Text describing length of sewer, slopes, material	C-EP-TEX
C-SV	Survey Control, Non Legal	C-LV
C-SV-BEN	Local bench marks	C-LV-RNL
C-SV-BND	Non-legal boundaries	C-LV-LIP
C-SV-CHN	Chainage	C-LV-CHI
C-SV-CTL	Control points	C-LV-POA
C-SV-GRD	Survey grid	C-LV-QUA
C-SV-HOR	Horizontal alignment	C-LV-HOR
C-SV-HPT	Horizontal control points	C-LV-PAH

CADD Standard

C-SV-LIM	Limits of contract, non legal	<i>C-LV-LIM</i>
C-SV-LIN	Survey feature connectivity line work	<i>C-LV-TRI</i>
C-SV-MON	Found legal monuments	<i>C-LV-RAR-TRV</i>
C-SV-PAR	Parcel line work	<i>C-LV-PAC</i>
C-SV-PAR-TXT	Parcel text	<i>C-LV-TEX</i>
C-SV-PNT	Survey points	<i>C-LV-POL</i>
C-SV-SEL	Super elevation	<i>C-LV-SUE</i>
C-SV-SET	Setbacks	<i>C-LV-MAR</i>
C-SV-STA-EQU	Station equation labels	<i>C-LV-STA</i>
C-SV-STA-LBL	Station labels	<i>C-LV-STA-NUI</i>
C-SV-STA-PTS	Station points	<i>C-LV-STA-PTS</i>
C-SV-TRA	Traverse line work	<i>C-LV-LCH</i>
C-SV-VER	Vertical alignment	<i>C-LV-VER</i>
C-SV-VPT	Vertical control points	<i>C-LV-PAV</i>
C-TP	Topographical Information	C-TG
C-TP-BNK	Top of bank	<i>C-TG-RIV</i>
C-TP-MAJ	Major contours	<i>C-TG-COP</i>
C-TP-MIN	Minor contours	<i>C-TG-COS</i>
C-TP-SPT	Spot elevation	<i>C-TG-POC</i>
C-TP-SRF	Surface model line work	<i>C-TG-MNT</i>
C-TP-SRF-BRK	Surface model break lines	<i>C-TG-MNT-LCO</i>
C-TP-SRF-TXT	Surface calculation text	<i>C-TG-MNT-TEX</i>
C-WM	Water and Fire	C-CE
C-WM-FHY	Fire hydrants	<i>C-CE-BOI</i>
C-WM-FRL	Fire lines	<i>C-CE-CAX</i>
C-WM-IRP	Irrigation system piping	<i>C-CE-TUY</i>
C-WM-IRR	Irrigation heads, controls, valves	<i>C-CE-CTI</i>
C-WM-JUN	Junction symbols	<i>C-CE-SYM</i>
C-WM-JUN-IDN	Text describing type of junction	<i>C-CE-SYM-TEX</i>
C-WM-MAN	Manholes, pumping stations, storage, valves	<i>C-CE-PUA</i>
C-WM-MAN-IDN	Text describing; t/g elevation, t/pipe elevation	<i>C-CE-PUA-TEX</i>
C-WM-MLI	Water main	<i>C-CE-CPE</i>
C-WM-RAW	Raw water lines	<i>C-CE-CEN</i>
C-WM-SLI	Water service line	<i>C-CE-CSE</i>
C-WM-TXT	Water main descriptive text	<i>C-CE-TEX</i>
C-WM-WTR	Water wells	<i>C-CE-PUE</i>

CADD Standard

ELECTRICAL SYSTEMS

English Abbv.	Description	French Abbv.
E-CK	Clock Systems	E-HO
E-CK-CLK	Clock locations	E-HO-PRS
E-CK-EQP	Clock equipment	E-HO-EQU
E-CK-WRG	Wiring	E-HO-CAB
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
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
E-EL	Emergency Lighting	E-EU
E-EL-ESG	Exit signs	E-EU-SOS
E-EL-LCM	Emergency luminaries ceiling mounted	E-EU-LUP
E-EL-LWS	Emergency luminaries wall mounted	E-EU-LUM
E-EL-OLB	Emergency outside luminaries attached to buildings, poles	E-EU-LUE
E-EP	Emergency Power Equipment	E-RU
E-EP-CTL	Motors and controls	E-RU-MOC
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
E-EP-UPS	UPS and conditioned power	E-RU-ASC
E-EW	Emergency Power Wiring and Cabling	E-CU
E-EW-CBT	Cable trays, ducts and raceways	E-CU-CCC
E-EW-CLT	Control wiring for emergency lighting	E-CU-CCE
E-EW-EXP	Exposed inside/outside wiring	E-CU-CAP
E-EW-HVC	High voltage in ceiling space	E-CU-HTE
E-EW-LVC	Low voltage in ceiling space	E-CU-BTE
E-EW-LVF	Low voltage under floor	E-CU-BTS
E-EW-UPS	Ups and conditioned power	E-CU-ASC
E-EW-WCL	Ceiling mounted wiring	E-CU-CPL
E-FR	Electrical Fire Protection	E-AI
E-FR-AEP	Alarm and annunciator panels, buzzer, bells	E-AI-PAA
E-FR-AID	Alarm initiation devices: pull stations, heat, smoke detectors	E-AI-DDA
E-FR-ELD	Electromagnetic locking devices	E-AI-DVE
E-FR-EQP	Equipment	E-AI-EQU
E-FR-MFP	Master fire warning panel	E-AI-PPA
E-FR-SIG	Signalling devices	E-AI-SIG
E-FR-VCE	Emergency voice communication	E-AI-CVU
E-FR-VCW	Emergency voice communication wiring	E-AI-CCU

CADD Standard

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
E-GD	Grounding	E-MT
E-GD-WRG	Wiring, rods, bus plates	E-MT-EQU
E-LP	Lightning Protection	E-PT
E-LP-WRG	Devices, equipment and wiring	E-PT-EQU
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
E-NL	Normal Lighting	E-EN
E-NL-CTL	Lighting controls	E-EN-COM
E-NL-LCM	Luminaries ceiling mounted	E-EN-LUP
E-NL-LWS	Luminaries in workspace and wall mounted	E-EN-LUM
E-NL-OLB	Outside luminaries attached to buildings, poles	E-EN-LUE
E-NP	Normal Power Equipment	E-RN
E-NP-CTL	Motors and controls	E-RN-MOC
E-NP-EQP	Normal power equipment - ceiling fans, etc.	E-RN-EQU
E-NP-HVD	High voltage distribution	E-RN-DHT
E-NP-LVD	Low voltage distribution	E-RN-DBT
E-NP-MEC	Electrical connections to mechanical equipment	E-RN-MEC
E-NP-RAD	Radiant heating panels	E-RN-RAD
E-NP-OUT	Outlets, receptacles	E-RN-PRS
E-NP-TEN	Special tenant systems	E-RN-LOC
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-CCE
E-NW-EXP	Exposed inside/outside wiring	E-CN-CAP
E-NW-HVW	High voltage wiring in ceiling space	E-CN-HTE
E-NW-LVC	Low voltage wiring in ceiling space	E-CN-BTE
E-NW-LVF	Low voltage under floor	E-CN-BTS
E-NW-LVW	Low voltage in workspace	E-CN-BPT
E-NW-PST	Power poles with receptacles	E-CN-COL
E-NW-TEN	Tenant systems in workspace	E-CN-RPT
E-NW-UPS	Ups and conditioned power	E-CN-ASC
E-PA	Sound and PA Systems	E-SV
E-PA-EME	Emergency	E-SV-URG
E-PA-EQP	Sound equipment	E-SV-EQU
E-PA-OUT	Outlets	E-SV-PRS
E-PA-SYM	Symbols	E-SV-SYM
E-PA-WRG	Wiring	E-SV-CAB

CADD Standard

E-PH	Telephone Systems	E-TE
E-PH-EQP	Equipment	E-TE-EQU
E-PH-OUT	Outlets	E-TE-PRS
E-PH-PAN	Telephone panel	E-TE-PAN
E-PH-WRG	Wiring	E-TE-CAB
E-SD	Site Distribution and Electrical Equipment	E-DS
E-SD-COD	Conduits	E-DS-COD
E-SD-COM-ABV	Communication lines - above grade - phone, video	E-DS-AER
E-SD-COM-UND	Communication lines - below grade - phone, video	E-DS-SOU
E-SD-DUC	Concrete ducts	E-DS-CBE
E-SD-EQP	Site distribution equip; transformers, pedestals	E-DS-EQU
E-SD-HVO-ABV	High voltage distribution - above grade	E-DS-HTE-AER
E-SD-HVO-UND	High voltage distribution - below grade	E-DS-HTE-SOU
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-LVO-ABV	Low voltage distribution - above grade	E-DS-DIS-AER
E-SD-LVO-UND	Low voltage distribution - below grade	E-DS-DIS-SOU
E-SD-MAN	Manhole, handwells (electrical, communication)	E-DS-THO
E-SD-MAN-IDN	Text describing; t/g elevation, line elevation	E-DS-THO-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-TXT	Text describing type of distribution system	E-DS-TEX
E-SE	Security Systems	E-SS
E-SE-ALM	Intrusion alarms	E-SS-SAA
E-SE-CTL	Intrusion controls and controllers	E-SS-COT
E-SE-ELK	Electrical security locks	E-SS-VEE
E-SE-LAN	Intrusion system lan	E-SS-REL
E-SE-SEN	Intrusion sensors	E-SS-DEI
E-SE-VCL	Video controllers (digital)	E-SS-COM
E-SE-VCM	Video cameras and monitors	E-SS-EQU
E-SE-WRG	Intrusion controller wiring	E-SS-CAB
E-SG	Signal Systems	E-SI
E-SG-EQP	Equipment	E-SI-EQU
E-SG-OUT	Outlets	E-SI-SOR
E-SG-WRG	Wiring	E-SI-CAB
E-SM	Electrical Schematics	E-SE
E-SM-CLK	Clock system schematics	E-SE-HOL
E-SM-DAS	Data systems schematics	E-SE-DAT
E-SM-EFP	Electrical fire protection schematics	E-SE-ALI
E-SM-ELT	Emergency lighting schematics	E-SE-ECU
E-SM-EPR	Emergency power wiring & equipment	E-SE-EQU
E-SM-EPR-MAX	Maximo numbers for emergency equipment	E-SE-SGN-EQU
E-SM-EPR-TXT	Text for emergency equipment	E-SE-SGN-TEX
E-SM-EQP	Switch board & equipment outlines	E-SE-TCE

CADD Standard

E-SM-EWR	Emergency wiring schematics	<i>E-SE-CAU</i>
E-SM-GEN	Emergency generation schematics	<i>E-SE-ALU</i>
E-SM-GND	Grounding schematics	<i>E-SE-MIT</i>
E-SM-HVW	High voltage (>750v) wiring & equipment	<i>E-SE-HTE</i>
E-SM-HVW-MAX	Maximo numbers for high voltage equipment	<i>E-SE-SGN-HTE</i>
E-SM-HVW-TXT	Text for high voltage equipment	<i>E-SE-HTE-TEX</i>
E-SM-KRK	Kirk key interlocks	<i>E-SE-KRK</i>
E-SM-LAN	Local area network schematics	<i>E-SE-REL</i>
E-SM-LGT	Lighting control schematics and diagrams	<i>E-SE-COE</i>
E-SM-LTP	Lightning protection schematics	<i>E-SE-PRF</i>
E-SM-MTR	Metering wiring & equipment	<i>E-SE-ECC</i>
E-SM-MTR-TXT	Metering wiring & equipment text	<i>E-SE-ECC-TEX</i>
E-SM-NEO	Neoc wiring and equipment	<i>E-SE-MNO</i>
E-SM-NEO-MAX	Maximo for neoc equipment	<i>E-SE-SGN-CNO</i>
E-SM-NLT	Normal lighting schematics	<i>E-SE-ECN</i>
E-SM-NPR	Normal power schematics, risers	<i>E-SE-ANV</i>
E-SM-NPR-MAX	Maximo tag numbers (00-00-00)	<i>E-SE-ANV-MAX</i>
E-SM-NPR-TXT	Text for low voltage equipment	<i>E-SE-ANV-TEX</i>
E-SM-PAS	Public address system schematics	<i>E-SE-COV</i>
E-SM-SGN	Signal schematic	<i>E-SE-SGN</i>
E-SM-TEL	Telephone schematics	<i>E-SE-TEL</i>
E-SM-VID	Video system schematics	<i>E-SE-VID</i>
E-SY	Electricity on Screening Systems	<i>E-EA</i>
E-SY-LAN	Lan network jack	<i>E-EA-REL</i>
E-SY-LTG	Normal powered lighting	<i>E-EA-LUM</i>
E-SY-OUT	Electrical outlet	<i>E-EA-PRS</i>
E-SY-PST	Screen electrical posts, poles	<i>E-EA-COL</i>
E-SY-TEL	Telephone outlet	<i>E-EA-TEL</i>
E-VD	Video Conferencing Systems	<i>E-VD</i>
E-VD-EQP	Equipment	<i>E-VD-EQU</i>
E-VD-OUT	Outlets	<i>E-VD-PRS</i>
E-VD-WRG	Wiring	<i>E-VD-CAB</i>

CADD Standard

GENERAL INFORMATION

English Abbv.	Description	French Abbv.
G-LG	Legend Information	G-LE
G-LG-LIN	Symbol legend line work	G-LE-TRI
G-LG-TXT	Symbol legend text	G-LE-TEX
G-GL	General	G-GL
G-GL-CAL	Callout blocks	G-GL-BUF
G-GL-SYM	Symbols, key plan, north arrow, bar scale	G-GL-SYM
G-GL-TXT	Text	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
G-TL	Title Block	G-CT
G-TL-ATT	Attributes for title block	G-CT-ATT
G-TL-LAY	Paper space metaview boundaries	G-CT-MET
G-TL-LIN	Line work for title block	G-CT-CON
G-TL-LOG	Logos	G-CT-LOG
G-TL-TIL	Title Block Insertion Layer	G-CT-CAR
G-TL-RME	Title block Read Me layer	G-CT-LIS
G-TL-TXT	Text for title block	G-CT-TEX

CADD Standard

MECHANICAL		
English Abbv.	Description	French Abbv.
H-CS	Control Systems	H-SC
H-CS-AIR	Control air piping	H-SC-AIR
H-CS-DAM	Damper actuators, controllers	H-SC-CPR
H-CS-EQP	Energy management systems	H-SC-ENE
H-CS-THR	Thermostats, humidistats, sensors	H-SC-THE
H-CS-VAV	Valve actuators, controllers	H-SC-CPV
H-DD	Ductwork Distribution	H-RC
H-DD-COA	Combustion air ductwork	H-RC-ACO
H-DD-EXH	Exhaust air ductwork	H-RC-AEV
H-DD-FLU	Flue, vent, breaching	H-RC-ECF
H-DD-INS	Duct insulation, acoustical lining	H-RC-ISO
H-DD-OUT	Outside air ductwork	H-RC-AEX
H-DD-RET	Return ductwork	H-RC-REP
H-DD-SUP	Supply ductwork	H-RC-AMA
H-DE	Ductwork Equipment	H-EC
H-DE-EXH	Exhaust grilles	H-EC-GEV
H-DE-FAN	Fans, dampers, coils, filters and equipment	H-EC-EQU
H-DE-OUT	Outside air grilles	H-EC-GAE
H-DE-RET	Return grills	H-EC-GRR
H-DE-SUP	Supply diffusers, grills, vents	H-EC-DIF
H-DE-VAV	Variable air volume boxes	H-EC-DAV
H-EQ	Equipment	H-EQ
H-EQ-ACE	Air conditioning equipment	H-EQ-COA
H-EQ-CMA	Compressed air equipment	H-EQ-AIC
H-EQ-CNV	Convectors	H-EQ-CNV
H-EQ-FEQ	Fuel equipment	H-EQ-COB
H-EQ-HYD	Hydronic equipment	H-EQ-HYD
H-EQ-REF	Refrigerant equipment	H-EQ-FRI
H-EQ-STM	Steam equipment	H-EQ-EVA
H-EQ-WPM	Domestic water tanks, pumps, water softeners	H-EQ-RED
H-FD	Fire Protection Distribution	H-PI
H-FD-CEX	Chemical extinguishing piping	H-PI-EXC
H-FD-FEX	Foamed extinguishing piping	H-PI-EXM
H-FD-SPP	Sprinkler piping	H-PI-GIC
H-FD-STP	Standpipe piping	H-PI-CMG
H-FE	Fire Protection Equipment	H-RI
H-FE-CAB	Fire hose cabinets	H-RI-ARI
H-FE-CEX	Chemical extinguishing equipment	H-RI-EXC
H-FE-EPE	Explosion-proof equipment	H-RI-EQA
H-FE-EXG	Fire extinguishers	H-RI-EIN
H-FE-FDP	Fire dampers	H-RI-RCF
H-FE-FEX	Foamed extinguishing equipment	H-RI-EXM

CADD Standard

H-FE-FHY	Building fire hydrants	<i>H-RI-PII</i>
H-FE-FIT	Sprinklers	<i>H-RI-GIC</i>
H-FE-SMC	Smoke control equipment	<i>H-RI-ECF</i>
H-FE-SPE	Sprinkler equipment	<i>H-RI-EQU</i>
H-FE-SPH	Sprinkler heads	<i>H-RI-TEG</i>
H-FE-SSZ	Sprinkler system zones	<i>H-RI-ZOG</i>
H-FE-STE	Standpipe equipment	<i>H-RI-CMG</i>
H-FP	Fuel and Process Piping	<i>H-TC</i>
H-FP-MAN	Manholes, valves, meters and fueling stations	<i>H-TC-PUA</i>
H-FP-SER	Fuel and process piping	<i>H-TC-TUY</i>
H-FP-TNK	Fuel tanks	<i>H-TC-RCO</i>
H-PD	Piping Distribution	<i>H-TU</i>
H-PD-CHR	Chilled water return	<i>H-TU-RER</i>
H-PD-CHS	Chilled water supply	<i>H-TU-AEE</i>
H-PD-CMA	Compressed air	<i>H-TU-AAC</i>
H-PD-DCW	Domestic cold water	<i>H-TU-AEF</i>
H-PD-DHR	Domestic hot water recirculation	<i>H-TU-RCD</i>
H-PD-DHW	Domestic hot water	<i>H-TU-ACD</i>
H-PD-DRA	Drainage waste and vents	<i>H-TU-DRA</i>
H-PD-FIT	Fittings	<i>H-TU-RAC</i>
H-PD-FOR	Fuel oil return	<i>H-TU-RHC</i>
H-PD-FOS	Fuel oil supply	<i>H-TU-AHC</i>
H-PD-GLR	Glycol return	<i>H-TU-REG</i>
H-PD-GLS	Glycol supply	<i>H-TU-ALG</i>
H-PD-HWR	Heating water return	<i>H-TU-REC</i>
H-PD-HWS	Heating water supply	<i>H-TU-AEC</i>
H-PD-MAN	Access holes	<i>H-TU-RES</i>
H-PD-NGA	Natural gas	<i>H-TU-GAN</i>
H-PD-PGA	Propane gas	<i>H-TU-GAP</i>
H-PD-RAD	Radiant heat tubing	<i>H-TU-TCR</i>
H-PD-RFG	Refrigerant gas	<i>H-TU-VAF</i>
H-PD-RFL	Refrigerant liquid	<i>H-TU-FLF</i>
H-PD-SAN	Sanitary	<i>H-TU-SAN</i>
H-PD-STC	Steam condensate	<i>H-TU-VAC</i>
H-PD-STM	Steam	<i>H-TU-ALV</i>
H-PF	Plumbing Fixtures	<i>H-PB</i>
H-PF-BIB	Hose bib connectors	<i>H-PB-RAC</i>
H-PF-FDR	Floor drains	<i>H-PB-DRP</i>
H-PF-FIX	Plumbing fixtures	<i>H-PB-APP</i>
H-PF-FIX-PAR	Plumbing fixtures on partition	<i>H-PB-APP-CLS</i>
H-PF-RDR	Roof drains	<i>H-PB-DRT</i>
H-SM	Mechanical Schematics and Riser Diagrams	<i>H-SM</i>
H-SM-CSY	Control system schematics	<i>H-SM-COM</i>
H-SM-DRS	Duct riser diagrams	<i>H-SM-CMC</i>
H-SM-DUC	Duct schematic diagrams	<i>H-SM-COD</i>

CADD Standard

H-SM-PIP	Piping schematic diagrams	<i>H-SM-TUY</i>
H-SM-PRS	Piping riser diagrams	<i>H-SM-CMT</i>
H-SM-WST	Waste schematics	<i>H-SM-EEU</i>

CADD Standard

INTERIOR DESIGN

English Abbv.	Description	French Abbv.
I-BP	Blocking Plan	I-BE
I-BP-OLN	Sector outlines	I-BE-CON
I-BP-DIM	Dimensions	I-BE-DIM
I-BP-TXT	Text, notes	I-BE-TEX
I-EI	Employee Information	I-EM
I-EI-IDN	Employee identification	I-EM-NUI
I-EQ	Equipment	I-EQ
I-EQ-CMP	Computers	I-EQ-ORD
I-EQ-OEQ	Office equipment	I-EQ-EXI
I-EQ-SPC	Special equipment	I-EQ-SPE
I-FU	Furniture	I-MO
I-FU-ACC	Accessories, coat trees, racks	I-MO-ACC
I-FU-ART	Artwork	I-MO-ART
I-FU-CAB	Storage cabinets, files	I-MO-RAG
I-FU-CLR	Furniture color	I-MO-COU
I-FU-DSK	Desks, work surfaces, tables	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-SHL	Shelving	I-MO-ETA
I-FU-SET	Seating	I-MO-SIE
I-FU-TAB	Tables	I-MO-TAB
I-FU-TXT	Annotations, Text furniture	I-MO-TEX
I-FU-SIZ	Furniture size	I-MO-DIM
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
I-SY	Screening Systems	I-EA
I-SY-CLR	Screen color	I-EA-COU
I-SY-OVH	Screen over-head storage, etc.	I-EA-SUR
I-SY-SCR	Screens	I-EA-ECA
I-SY-SIZ	Screening sizes	I-EA-DIM
I-SY-SUR	Work surfaces, D-tops, P-tops, etc.	I-EA-SUT

CADD Standard

LEGAL SURVEY

English Abbv.	Description	French Abbv.
L-AZ	Airport Zoning	L-ZA
L-AZ-ZNP	Proposed new zoning	L-ZA-NZP
L-AZ-ZNS	Zoning surfaces, runway strips, centrelines	L-ZA-ZON
L-GL	General	L-GL
L-GL-TXT	General text	L-GL-TEX
L-PL	Legal Survey Plan	L-AF
L-PL-BDY	Legal limits, fee simple, admin., control	L-AF-LIF
L-PL-BND	Legal boundaries	L-AF-LDF
L-PL-CEN	Provincial, national coordinates of parcel centroid	L-AF-CEP
L-PL-DIM	General measurements, dimensions, etc.	L-AF-DIM
L-PL-FEA	Physical site features; fences, buildings, walls, etc.	L-AF-CAS
L-PL-FEA-TXT	Text describing physical site features	L-AF-CAS-TEX
L-PL-LIM	Limited interest estate: easement, right-of-way	L-AF-DRO
L-PL-LIM-IDN	Ident. text for limited interest estate: easement, right-of-way	L-AF-DRO-TEX
L-PL-NAT	Natural boundaries, watercourses, shorelines	L-AF-LIT
L-PL-PAR	Parcel line work	L-AF-PAC
L-PL-PAR-IDN	Parcel identification	L-AF-PAC-NUI
L-PL-PAR-TXT	Parcel text	L-AF-PAC-TEX
L-PL-PPR-IDN	Owner identification	L-AF-LIF-NUI
L-PL-SET	Setbacks	L-AF-MAR
L-PL-UCD	Underlying cadastral fabric; deeds, lots, plans	L-AF-CAD
L-SP	Legal Site Plan	L-PS
L-SP-CAN	Canadian boundaries	L-PS-FCN
L-SP-CLS	CLSR boundaries, reserves, parks	L-PS-RTC
L-SP-PRO	Provincial boundaries	L-PS-PRV
L-SP-REG	Regional and municipality boundaries	L-PS-MUN
L-SV	Legal Survey	L-LT
L-SV-BEN	Local bench marks	L-LT-RNL
L-SV-BEN-IDN	Identification text for local bench marks	L-LT-RNL-TEX
L-SV-CHN	Chainage	L-LT-CHI
L-SV-CLN	Radial ties, traverse lines, control lines	L-LT-LGC
L-SV-CTL	Control points	L-LT-POA
L-SV-CTL-F	Found control points	L-LT-POA-TRV
L-SV-CTL-GPS	GPS control points	L-LT-POA-GPS
L-SV-CTL-GPS-IDN	Identification text for GPS control points	L-LT-POA-GPS-TEX
L-SV-CTL-IDN	Identification text for control points	L-LT-POA-TEX
L-SV-CTL-IDN-F	Identification text for found control points	L-LT-POA-TRV-TEX
L-SV-GRD	Survey grid	L-LT-QUA
L-SV-HOR	Horizontal alignment	L-LT-HOR
L-SV-HPT	Horizontal control points	L-LT-PAP
L-SV-HPT-IDN	Identification text for horizontal control points	L-LT-PAP-TEX
L-SV-LIN	Survey feature connectivity line work	L-LT-LEV
L-SV-MON	Legal monuments, horizontal / vertical control	L-LT-RAR

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L-SV-MON-F	Found legal monuments, horizontal/vertical control	<i>L-LT-RAR-TRV</i>
L-SV-MON-IDN	Identification text for legal monuments	<i>L-LT-RAR-TEX</i>
L-SV-MON-IDN-F	Identification text for found legal monuments	<i>L-LT-RAR-TRV-TEX</i>
L-SV-PNT	Survey points	<i>L-LT-POL</i>
L-SV-PNT-GEO	Geodetic survey points	<i>L-LT-POG</i>
L-SV-STA-EQU	Station equation labels	<i>L-LT-STA</i>
L-SV-STA-LBL	Station labels	<i>L-LT-STA-NUI</i>
L-SV-STA-PTS	Station points	<i>L-LT-STA-PTS</i>
L-SV-TRA	Traverse line work	<i>L-LT-LCH</i>
L-SV-VER	Vertical alignment	<i>L-LT-VER</i>
L-SV-VPT	Vertical control points	<i>L-LT-PCA</i>
L-TP	Topographical Information	L-TG
L-TP-BNK	Top of bank	<i>L-TG-HAT</i>
L-TP-MAJ	Major contours	<i>L-TG-COP</i>
L-TP-MIN	Minor contours	<i>L-TG-COS</i>
L-TP-SPT	Spot elevation	<i>L-TG-POC</i>
L-TP-SRF	Surface model line work	<i>L-TG-MNT</i>
L-TP-SRF-BRK	Surface model break lines	<i>L-TG-MNT-LCO</i>
L-TP-SRF-TXT	Surface model text	<i>L-TG-MNT-TEX</i>

CADD Standard

MARINE

English Abbv.	Description	French Abbv.
M-BW	Breakwater Features	M-BL
M-BW-BRM	Crest of breakwater, berms	M-BL-CBL
M-BW-OLN	Breakwater outline	M-BL-CON
M-BW-TOE	Toe of breakwater	M-BL-BBL
M-DM	Dams	M-BR
M-DM-ABU	Abutments	M-BR-PLC
M-DM-APR	Approach slabs	M-BR-APR
M-DM-BAR	Barriers, Railings	M-BR-GAC
M-DM-BRG	Bearing	M-BR-DER
M-DM-DDR	Deck Drains	M-BR-AVT
M-DM-DEK	Deck Plan	M-BR-PLB
M-DM-EXJ	Expansion Joints	M-BR-JOC
M-DM-FTG	Footing	M-BR-SEM
M-DM-GAB	Gabions	M-BR-GAB
M-DM-PIR	Piers	M-BR-PIL
M-DM-REB	Deck Reinforcing	M-BR-ACR
M-DM-STG	Steel Grating	M-BR-GRI
M-GL	General	M-GL
M-GL-DIM	Dimensions	M-GL-DIM
M-GL-HAT	Hatching	M-GL-HAC
M-GL-LAY	Layout line work	M-GL-TRI
M-GL-TXT	Text	M-GL-TEX
M-NV	Navigation	M-NA
M-NV-BUO	Buoys	M-NA-BOU
M-NV-CAR	Cards	M-NA-SYM
M-NV-COR	Navigation corridors, channels	M-NA-TVN
M-NV-EQP	Floating aids, marker buoys, fog horns	M-NA-EQU
M-NV-SPA	Spars	M-NA-MAT
M-SK	Skid-way, Haul-outs, Slipways	M-CA
M-SK-BED	Vessel beds	M-CA-PLF
M-SK-BLK	Anchor blocks, haul out blocks	M-CA-BLA
M-SK-FTG	Footings	M-CA-SOA
M-SK-GUA	Guards	M-CA-GUA
M-SK-OLN	Skid-way outline	M-CA-CON
M-SK-RAI	Railway	M-CA-TRC
M-SK-SKD	Skid timbers, skid poles	M-CA-POU
M-SK-SLB	Concrete slabs, precast panels	M-CA-DPP
M-SK-SSP	Steel sheet piling	M-CA-PAL
M-SN	Hydrographic Survey Information, Non Legal	M-RH
M-SN-DAT	Chart datum contour, 0.00 m	M-RH-PFM
M-SN-DRG	Dredged area or limits	M-RH-LID
M-SN-HNT	High normal tide	M-RH-MHN

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M-SN-HWL	High water lines	<i>M-RH-LHM</i>
M-SN-LNT	Low normal tide	<i>M-RH-MBN</i>
M-SN-LWL	Low water lines	<i>M-RH-LBM</i>
M-SN-MAJ	Major sea bottom contours	<i>M-RH-CON</i>
M-SN-MIN	Minor sea bottom contours	<i>M-RH-CON-SCD</i>
M-SN-SPT	Soundings, spot elevations	<i>M-RH-SON</i>
M-SN-TID	Tide gauges, tidal equipment, tide datum	<i>M-RH-EQU</i>
M-WF	Wharf Features	M-CQ
M-WF-BRC	Bracing, wale	<i>M-CQ-ENT</i>
M-WF-CAI	Caissons	<i>M-CQ-FLO</i>
M-WF-CAT	Catwalks	<i>M-CQ-PAS</i>
M-WF-CRB	Cribwork, ballast floor	<i>M-CQ-CCV</i>
M-WF-CRW	Crown slopes, crowns	<i>M-CQ-SOM</i>
M-WF-CWL	Cope walls, cope beams	<i>M-CQ-MPC</i>
M-WF-DRK	Derricks, cranes, gallows	<i>M-CQ-GRU</i>
M-WF-DRN	Drains, scuppers	<i>M-CQ-DRA</i>
M-WF-FND	Fenders	<i>M-CQ-DEF</i>
M-WF-FST	Floating wharfs	<i>M-CQ-QUF</i>
M-WF-FTG	Footings, mattresses, deck substructures	<i>M-CQ-SEM</i>
M-WF-FWL	Fire walls	<i>M-CQ-MCF</i>
M-WF-GUA	Guards	<i>M-CQ-GUA</i>
M-WF-GWY	Gangways	<i>M-CQ-PAE</i>
M-WF-JNT	Construction, control joints	<i>M-CQ-JOC</i>
M-WF-LAD	Ladders	<i>M-CQ-ECH</i>
M-WF-MOR	Mooring cleats, bollards	<i>M-CQ-TAA</i>
M-WF-OLN	Wharf and dolphin outlines	<i>M-CQ-CON</i>
M-WF-PIL	Piles and bents	<i>M-CQ-PIL</i>
M-WF-SSP	Steel sheet piling	<i>M-CQ-PAL</i>
M-WF-TIE	Tie rods, anchor blocks, tie back walls	<i>M-CQ-TBA</i>

CADD Standard

REAL PROPERTY SPACE MANAGEMENT

English Abbv.	Description	French Abbv.
R-BC	Building Common Areas "Accessory B"	R-CB
R-BC-COR	Shared public corridors	R-CB-COR
R-BC-OLN	General shared building outline	R-CB-CON
R-BC-RMS	Shared rooms	R-CB-SAL
R-BS	Building Service Areas	R-SB
R-BS-OLN	General building service outline	R-SB-CON
R-BS-RMS	Building service rooms	R-SB-SAL
R-BS-SFT	Vertical shafts, elevators, stairs (Takes walls over RMS)	R-SB-PUV
R-EX	Exterior Site Areas	R-EX
R-EX-OLN	Exterior site areas	R-EX-CON
R-FC	Floor Common Areas	R-AE
R-FC-AWR	Accessible washrooms	R-AE-SAT-ACF
R-FC-CNV	Convectors (baseboard, radiators)	R-AE-CNV
R-FC-COL	Building structure, columns (interior and perimeter)	R-AE-COL
R-FC-COR	Primary circulation	R-AE-COC
R-FC-ENC	Encroachments (unusable space)	R-AE-EMP
R-FC-FIR	Fire egress cross over areas, fire refuge areas	R-AE-SOS
R-FC-LOB	Floor elevator lobbies	R-AE-HAL
R-FC-OLN	General outline of floor common areas	R-AE-CON
R-FC-RMS	Electrical, telecom, janitor's closets	R-AE-SAL
R-FC-WSR	Washrooms	R-AE-SAT
R-GA	Gross Area	R-AB
R-GA-EXT	Exterior gross area	R-AB-EXT
R-GA-INT	Interior gross area	R-AB-INT
R-GL	General	R-GL
R-GL-TXT	Street names for Space Audit	R-GL-TEX
R-PK	Parking	R-ST
R-PK-0000-DEP	Parking number - department name (Special use only)	R-ST-0000-ACF
R-PK-0000-BRF-DEP	Barrier free parking	R-ST-0000-MIN
R-PK-DIV	Parking divisions	R-ST-DIV
R-PK-EXT	Exterior parking (Special use only)	R-ST-EXT
R-PK-IDN	Parking identification numbers	R-ST-NUI
R-PK-INT	Interior parking (Special use only)	R-ST-INT
R-PK-OLN	Outlines	R-ST-CON
R-PK-SPC	Special parking	R-ST-SPE
R-SU	Surface Maintenance Building	R-SU
R-SU-CLG	Ceiling finishes	R-SU-RPL
R-SU-COR	Primary corridors	R-SU-COC
R-SU-DEP	Space allocation by department	R-SU-MIN
R-SU-DIV	Division of area	R-SU-DIV
R-SU-EXT	Exterior finishes	R-SU-EXT
R-SU-FLR	Floor finishes	R-SU-RPC

CADD Standard

R-SU-FLR-HIG	High traffic area	<i>R-SU-RPC-ELV</i>
R-SU-FLR-LOW	Low traffic area	<i>R-SU-RPC-BAS</i>
R-SU-GRP	Space allocation by group / branch	<i>R-SU-GRP</i>
R-SU-IDN	Surface identification number	<i>R-SU-NUI</i>
R-SU-OLN	Outlines	<i>R-SU-CON</i>
R-SU-RMS	Rooms	<i>R-SU-SAL</i>
R-SU-SFT	Shafts	<i>R-SU-PUV</i>
R-SU-SPC	Special surfaces	<i>R-SU-SPE</i>
R-SU-WAL	Walls	<i>R-SU-MUR</i>
R-SU-WIN	Windows	<i>R-SU-FEN</i>
R-UC	User Common	R-AC
R-UC-COR	Shared public corridors	<i>R-AC-COR</i>
R-UC-OLN	General shared user outline	<i>R-AC-CON</i>
R-UC-RMS	Shared rooms	<i>R-AC-SAL</i>
R-US	Usable	R-AU
R-US-001, 002...	Usable area polygons by location	<i>R-AU-001, 002</i>
R-US-COR	Primary circulation areas	(Special use only) <i>R-AU-COR</i>
R-US-DEP	Space allocation by department	(Special use only) <i>R-AU-MIN</i>
R-US-DIV	Division of areas	<i>R-AU-DIV</i>
R-US-GRP	Space allocation by group / branch	(Special use only) <i>R-AU-GRP</i>
R-US-IDN	Location identification numbers	<i>R-AU-NUI</i>
R-US-OLN	General usable outlines	(Special use only) <i>R-AU-CON</i>
R-US-RMS	Room identification numbers	(Special use only) <i>R-AU-SAL-NUI</i>
R-US-UNT	Space allocation by units	(Special use only) <i>R-AU-UNI</i>
R-ZN	Zoning	R-ZO
R-ZN-CLN	Cleaning zoning	<i>R-ZO-NET</i>
R-ZN-FIR	Fire egress zoning	<i>R-ZO-SOS</i>
R-ZN-SEC	Security zoning	<i>R-ZO-SEU</i>

CADD Standard

STRUCTURE

English Abbv.	Description	French Abbv.
S-CL	Ceilings	S-PF
S-CL-BEM	Ceiling beams	S-PF-POU
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
S-FL-OPN	Floor openings	S-PC-OUV
S-FL-SLB	Floor slabs	S-PC-DPP
S-FL-STR	Structural landings	S-PC-ESC
S-FN	Foundations	S-FD
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
S-GR	Structural grid	S-QU
S-GR-EXT	Structural grid lines outside building	S-QU-AXE-EXT
S-GR-INT	Structural grid lines inside building	S-QU-AXE-INT
S-RF	Roofs	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, roof trusses	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-WL	Walls, Columns	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-JNT	Joints, expansion, construction	S-MU-JOC
S-WL-OPN	Wall openings	S-MU-OUV
S-WL-RWL	Retaining walls	S-MU-STM

Annex B – Layer Fields Description

Group Fields

AP	Approach Slabs	NL	Normal Lighting
AZ	Airport Zoning	NP	Normal Power Equipment
BC	Building Common Areas Accessory B	NV	Navigation
BH	Borehole Data (geotechnical)	NW	Normal Power Wiring and Cabling
BP	Blocking Plan	PA	Sound and PA Systems
BS	Building Service Areas	PD	Piping Distribution
BW	Breakwater Features	PF	Plumbing Fixtures
CI	Circulation	PH	Telephone Systems
CK	Clock Systems	PK	Parking
CL	Ceilings	PL	Plan
CS	Control Systems	PR	Profile Data
DA	Data Systems	RF	Roofs
DD	Ductwork Distribution	RO	Roads
DE	Ductwork Equipment	RW	Railways
DK	Bridge deck and components	SA	Sanitary Sewer
DM	Dams	SB	Substructure
DR	Doors	SC	Schedules
DT	Details	SD	Site Distribution and Electrical Equipment
EG	Emergency Generation	SE	Security Systems
EI	Employee Information	SF	Site Features
EL	Emergency Lighting	SG	Signal Systems
EM	Emergency	SI	Signage
EP	Emergency Power Equipment	SK	Skid-way, Haul-outs, Slipways
EQ	Equipment	SM	Schematics
EV	Elevations	SM	Storm Drainage & Systems
EW	Emergency Power Wiring and Cabling	SN	Hydrographic Survey Information, Non Legal
EX	Exterior Site Areas	SP	Legal Site Plan
FC	Floor Common Areas	SR	Scour Protection
FD	Fire Protection Distribution	SS	Superstructure
FE	Fire Protection Equipment	ST	Sections
FL	Floors	SU	Surface Maintenance Building
FN	Foundations	SV	Survey
FP	Fuel and Process Piping	SY	Screening Systems
FR	Electrical Fire Protection	TL	Title Blocks
FU	Furniture	TP	Topographical Information
FW	Flat Wiring	UC	User Common
GA	Gross Area	US	Usable
GD	Grounding	VD	Video Conferencing Systems
GF	Gases and Fuels	WD	Windows
GL	General	WF	Wharf Features
GR	Grid	WL	Walls
HY	Hydrology	WM	Water and Fire
LD	Landscaping	ZN	Zoning
LG	Legend		
LP	Lightning Protection		
NG	Normal Power Generation		

CADD Standard

Ext.	Description	Ext.	Description
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Single Layer Field and First Extension

3DM	3D Model Components of 2D Symbols	CLN	Construction Lines, Temporary Aids
ABN	Abandoned	CLN	Control lines
ABU	Abutments	CLR	Colors
ABV	Above Ground, Above Grade	CLS	CLSR boundaries, reserves, parks
ACC	Accessories	CLT	Control wiring for emergency lighting
ACE	Air conditioning equipment	CMA	Compressed air
ACR	Fire department access routes	CMP	Computers
AEP	Alarm and annunciator panels, buzzer, bells	CNB	Flat wiring connection boxes
AID	Alarm initiation devices: pull stations, heat/smoke detector	CNV	Convectors
AIR	Control air piping	COA	Combustion air ductwork
ALI	Alignment	COD	Conduits
ALM	Intrusion alarms	COL	Columns
APR	Approach slabs	CON	Concrete
ARM	Erosion control, armourstone, riprap	CON	Construction
ART	Artwork	COR	Corridors
ASP	Asphalt	CRB	Cribwork, ballast floor
ATT	Attributes	CRB	Curbs
AWR	Accessible washrooms	CRW	Crown slopes, crowns
BAR	Barriers, railings	CSY	Control system schematics
BDY	Legal limits, fee simple, admin., control	CTL	Controls
BED	Vessel beds	CTP	Counter tops
BEM	Beams	CUL	Culverts
BEN	Local bench marks	CVY	Horizontal conveyors, moving sidewalks
BIB	Hose bib connectors	CWL	Cope walls, cope beams
BKH	Bulkheads	DAM	Damper actuators, controllers
BLK	Block	DAS	Data systems schematics
BND	Boundaries	DAT	Chart datum contour, 0.00 m
BNK	Top of bank	DBR	Debris, rubble, loose rock and soil
BRC	Bracing	DCB	DC battery systems
BRG	Bearing	DCL	Ditch centre lines
BRG	Bridges	DCW	Domestic cold water
BRK	Brick	DDR	Deck drains
BRM	Crest of breakwater, berms	DEK	Deck
BUO	Buoys	DEP	Space allocation by department
CAB	Cabinet	DHR	Domestic hot water recirculation
CAI	Caissons	DHW	Domestic hot water
CAL	Callout blocks	DIG	Digitized or Vectorized from Scanned Image
CAN	Canadian boundaries	DIM	Dimensions
CAR	Cards	DIV	Divisions
CAR	Carpet	DPI	Diesel fuel pipelines
CAT	Catchments area	DRA	Drainage
CAT	Catwalks	DRG	Dredged area or limits
CBL	Flat wiring cable location	DRK	Derricks, cranes, gallows
CBT	Cable trays, ducts and raceways	DRN	Drains, scuppers
CEN	Provincial, national coordinates of parcel centroid	DRS	Duct riser diagrams
CEX	Chemical extinguisher	DSE	Diesel fuel valves, manholes, meters, storage
CHN	Chainage	DSK	Desks, work surfaces, tables
CHR	Chilled water return	DUC	Ducts
CHS	Chilled water supply	EFP	Electrical fire protection schematics
CLG	Ceiling finishes	ELD	Electromagnetic locking devices
CLI	Centrelines	ELE	Elevators
CLK	Clock	ELK	Electrical security locks
CLN	Cleaning	ELT	Emergency lighting schematics
		EME	Emergency

CADD Standard

ENC	Encroachments (unusable space)	HVC	High voltage in ceiling space
EPE	Explosion-proof equipment	HVD	High voltage distribution
EPR	Emergency power wiring & equipment	HVW	High voltage wiring
EQP	Equipment	HWL	High water lines
ESG	Exit signs	HWR	Heating water return
EWR	Emergency wiring schematics	HWS	Heating water supply
EXG	Fire extinguishers	HWY	Highway plan
EXH	Exhaust	HYD	Hydronic equipment
EXJ	Expansion joints	ICE	Ice thickness
EXP	Exposed inside/outside wiring	IDN	Identification
EXT	Exterior	INS	Insulation
FAN	Fans, dampers, coils, filters and equipment	INT	Interior
FDP	Fire dampers	IOT	Inlet outlet
FDR	Floor drains	IRP	Irrigation system piping
FEA	Physical site features; fences, buildings, walls, etc.	IRR	Irrigation heads, controls, valves
FEN	Fencing	JNT	Joints
FEQ	Fuel equipment	JST	Joists
FEX	Foamed extinguisher	JUN	Junction symbols
FHY	Fire hydrants	KRK	Kirk key interlocks
FIL	Backfill, soil line	LAD	Ladders
FIN	Finishes	LAN	Local area network
FIR	Fire egress	LAY	Layout line work
FIT	Fittings	LAY	Paper space metaview boundaries
FIX	Plumbing fixtures	LCM	Luminaries ceiling mounted
FLG	Flagpoles	LEV	Floor level changes, ramps, truck wells
FLO	Flow, discharge	LGT	Lighting control schematics and diagrams
FLR	Floor finishes	LIM	Limits
FLU	Flue, vent, breaching	LIN	Line work
FND	Fenders	LNT	Low normal tide
FOR	Fuel oil return	LOB	Floor elevator lobbies
FOS	Fuel oil supply	LOG	Borehole logs and data
FRL	Fire lines	LOG	Logos
FRM	Framing	LTG	Normal powered lighting
FST	Floating wharfs	LTP	Lightning protection schematics
FTG	Footing	LVC	Low voltage
FTN	Fountains, pools	LVD	Low voltage distribution
FUR	Site furnishings, benches, garbage cans, etc.	LVF	Low voltage under floor
FWL	Fire walls	LVW	Low voltage in workspace
GAB	Gabions	LWL	Low water lines
GDP	Guideposts	LWN	Lawn area
GEN	Generators	LWS	Luminaries wall mounted
GLR	Glycol return	MAJ	Major contours
GLS	Glycol supply	MAN	Manholes
GND	Grounding schematics	MAR	Marshes, wetlands
GRD	Grid	MEC	Electrical connections to mechanical equipment
GRL	Guides, guard rails, median dividers, bollards	MFP	Master Fire Warning Panel
GRP	Space allocation by group / branch	MIL	Architectural specialties, casework and millwork
GUA	Guards	MIN	Minor contours
GUT	Gutter lines	MLI	Main sewer lines
GWY	Gangways	MNG	Storm water management pond
HAT	Hatching	MON	Monitoring
HED	Door and window headers	MON	Monuments
HNT	High normal tide	MOR	Mooring cleats, bollards
HOR	Horizontal	MRK	Markings and road striping
HPT	Horizontal control points	MSH	Mass hauling diagrams
		MTR	Metering wiring & equipment

CADD Standard

MUN	Municipal and utility services	RMS	Rooms
NAT	Natural boundaries, watercourses, shorelines	ROD	Drivable road limits (asphalt) road, lots
NEO	Neoc wiring and equipment	RRP	Riprap
NGA	Natural gas	RWL	Retaining walls
NLT	Normal lighting schematics	SAN	Sanitary
NOD	Node, Horizontal Reference Point	SCR	Screens
NOF	Non-office furniture, first aid room beds, etc.	SEC	Security zoning
NPI	Natural gas pipelines	SEL	Super elevation
NPR	Normal power schematics, risers	SEN	Intrusion sensors
NSE	Natural gas valves, manholes, meters, storage	SER	Fuel and process piping
OEQ	Office equipment	SET	Seating
OFF	Office signage	SET	Setbacks
OLB	Outside luminaries attached to building	SEW	Sewer
OLN	Outlines	SFT	Shafts
OPI	Oil pipelines	SGL	Sign layouts and details
OPN	Openings	SGN	Signs
OSE	Oil valves, manholes, meters, storage	SHL	Shelving
OUT	Outlets	SIG	Signalling devices
OUT	Outside air	SIL	Window sills
OVH	Overhead	SIZ	Size
PAN	Telephone panel	SKD	Skid timbers, skid poles
PAR	Parcel line work	SLB	Slabs
PAS	Public address system schematics	SLI	Sewer lines
PGA	Propane gas	SMC	Smoke control equipment
PIC	Inserted pictures	SMP	Soil sample locations
PIL	Piles	SNL	Stringers
PIP	Piping schematic diagrams	SPA	Spars
PIR	Piers	SPC	Special
PLN	Approach slabs in plan view	SPE	Sprinkler equipment
PLT	Plants	SPH	Sprinkler heads
PNT	Survey points	SPO	Equipment, sports facilities, goal nets, shooting targets, etc.
POL	Poles and towers (electrical, communication)	SPP	Sprinkler piping
PPI	Propane pipelines	SPT	Spot elevation
PRO	Profiles	SPT	Spot Elevations
PRO	Provincial boundaries	SRF	Surface model line work
PRS	Piping riser diagrams	SSP	Steel sheet piling
PSE	Propane valves, manholes, meters, storage	SSZ	Sprinkler system zones
PST	Posts	STC	Steam condensate
RAD	Radiant heat	STE	Standpipe equipment
RAI	Railway	STG	Staging layout plan
RAS	Raised floors	STG	Steel grating
RAW	Raw water lines	STL	Steel
RDR	Roof drains	STM	Steam
REB	Reinforcing	STO	Stone
REC	Receptacles	STP	Standpipe piping
REF	Refrigerant equipment	STP	Stratigraphic profiles
REG	Regional and municipality boundaries	STR	Stairs
RET	Retaining walls	SUB	Sub
RET	Return	SUP	Supply
RFG	Refrigerant gas	SUR	Work surfaces, D-tops, P-tops, etc.
RFL	Refrigerant liquid	SWK	Sidewalks
RME	Read Me info	SYM	Symbols
RMP	Ramps	TAB	Tables
		TEL	Telephone
		TEN	Tenant
		TER	Terraces
		THR	Thermostats

CADD Standard

TID	Tide gauges, tidal equipment, tide datum
TIE	Tie rods, anchor blocks, tie back walls
TIL	Tile
TIL	Title Block Insertion Layer
TIM	Timber
TMP	Temporary
TMT	Sewage treatment areas
TNK	Fuel tanks
TOE	Toe of breakwater
TRA	Traverse line work
TRE	Trees
TRL	Trails
TUN	Tunnels
TXT	Text
UCD	"Underlying cadastral fabric; deeds, lots, plans"
UND	Underground, Below Grade
UNT	Space allocation by units
UPS	Ups and conditioned power
VAV	Valve actuators, controllers
VAV	Variable air volume boxes
VCE	Emergency voice communication
VCL	Video controllers (digital)
VCM	Video cameras and monitors
VCW	Emergency voice communication wiring
VER	Vertical
VID	Video system schematics
VPT	Vertical control points
WAL	Walls
WCL	Ceiling mounted wiring
WIN	Windows
WLK	Roof boardwalks, catwalks
WPM	Domestic water tanks, pumps, water softeners
WRG	Wiring
WRM	Washroom partitions
WSR	Washrooms
WST	Waste schematics
WTR	Water
XRE	External reference
ZNP	Proposed new zoning
ZNS	Zoning surfaces, runway strips, centrelines

Second Extension

1 to 9	Options or phases 1 to 9
A	English Text (Anglais)
B	Bottom
C	Centre
E	Existing
F	French Text
L	Left
M	To be moved or relocated
N	New
P	Planned or Proposed
R	Right
S	Base
T	Top
X	To Be Removed

Annex C - Glossary

"As-Built" shall mean a set of construction drawings reflecting on-site changes required during the project as well as the original design intent.

"AutoCAD®" shall mean the CADD software developed by Autodesk® Inc.

"Base Plan" shall mean a clean, two dimensional floor plans of a building drawn from field surveys containing all pertinent graphic information. The intent is to use Base Plan files for project drawings, then update them once a project is complete and the area affected is re-measured.

"CADD" shall mean Computer Aided Design and Drafting.

"CAFM" shall mean Computer Aided Facilities Management.

"DOS" shall mean the Disk Operating System which manages the flow of information to and from various parts of the Personal Computer system.

"DM-5" shall mean Enterprise Document and Record Management. This is a PWGSC internal electronic document filing system (Formally known as EDRM or TIDIS).

"Layers" shall mean the AutoCAD® system of dividing drawing elements.

"Legacy Drawings" shall mean older hard copy drawings, microfiche aperture card not in digital format or older CADD files not to present standards.

"PWGSC" shall mean the Department of Public Works and Government Services Canada.

"RPB" shall mean Real Property Branch, a branch of PWGSC.

"SDIM" shall mean Spatial Data Information Management, a general term for managing CADD/CAFM/GIS drawings.