

TMD 0001

**CAD AND DRAFTING MANUAL –
ARCHITECTURAL – SECTION 8**

Version 2.3

Issued May 2013

Owner: Applications Manager – RailCAD

Approved by: Brent Mallam
Applications Manager
RailCAD

Authorised by: Philip Pearce
General Manager
Chief Engineers' Division

Disclaimer

This document was prepared for use on the RailCorp Network only.

RailCorp makes no warranties, express or implied, that compliance with the contents of this document shall be sufficient to ensure safe systems or work or operation. It is the document user's sole responsibility to ensure that the copy of the document it is viewing is the current version of the document as in use by RailCorp.

RailCorp accepts no liability whatsoever in relation to the use of this document by any party, and RailCorp excludes any liability which arises in any manner by the use of this document.

Copyright

The information in this document is protected by Copyright and no part of this document may be reproduced, altered, stored or transmitted by any person without the prior consent of RailCorp.

Document control

Version	Date	Summary of change
1.0		First issue
1.1		Section numbering updated, Reference corrections and Document Control Page added.
1.2	July 2005	Alterations after stake holder review.
2.0	April 2009	Major review. Re-formatted and renumbered to new system. Cell libraries and level names revised.
2.1	April 2010	Minor review. Minor contextual changes. Level Table Amended.
2.2	September 2010	Application of TMA 400 format
2.3	February 2013	Appendix B updated

Contents

8	Architectural Design Standards.....	5
8.1	Introduction	5
	8.1.1 General.....	5
	8.1.2 Architectural Design Products and Outputs	5
	8.1.3 References	5
	8.1.4 Abbreviations.....	5
8.2	Architectural Design Products and Stages	6
	8.2.1 Feasibility / Scoping / Planning	6
	8.2.2 Concept Design (pre-D/A stage).....	6
	8.2.3 Design Development (D/A stage).....	6
	8.2.4 Detail Design (Working Drawings)	6
	8.2.5 Standard Drawings.....	6
	8.2.6 Specifications	6
	8.2.7 Design Guides / Standards	7
	8.2.8 Reports / Studies.....	7
8.3	Drawing Practice Standards	7
	8.3.1 General.....	7
	8.3.2 Railway Drawing Convention	8
8.4	Architectural Design CAD Standards	8
	8.4.1 File Naming Convention	8
	8.4.1.1 Scope.....	8
	8.4.1.2 File Name Format	8
	8.4.1.3 Discipline Component.....	8
	8.4.1.4 Data Kind Definitions (File Type)	9
	8.4.1.5 Amendment Character(s).....	9
	8.4.1.6 Minor Amendment Number.....	9
	8.4.1.7 File Purpose component.....	9
	8.4.1.8 Design Type (Required Detail)	9
	8.4.1.9 File Extension	9
	8.4.1.10 Definitions	10
	8.4.2 Seed Files	10
8.5	Cell Libraries.....	10
8.6	Levels, Level Symbology Overrides and Symbology ByLevel	10
8.7	Drawing Content.....	10
	8.7.1 Format and Layout	10
	8.7.2 Sheet Sizes	10
	8.7.3 Title Blocks	10
	8.7.4 Scales.....	10
	8.7.5 Line work	11
	8.7.6 Text.....	11
	8.7.7 Fonts.....	11
	8.7.8 Text Styles.....	11
	8.7.9 Dimensions.....	12
	8.7.10 Notes	12

	8.7.11	Amendments	13
	8.7.12	Associated Drawings.....	13
8.8		Product Media.....	13
	8.8.1	CAD Drafting	13
	8.8.2	Manual Drafting	14
	8.8.3	Print / Paper	14
	8.8.4	Mounted Products	14
	8.8.5	Sample Boards / Colour Boards.....	14
	8.8.6	Perspectives.....	14
	8.8.7	Photographs	14
8.9		Drawing Numbering	15
	8.9.1	General.....	15
	8.9.2	EDMS (Plan Room) Number.....	15
	8.9.3	Sketch Plan Number	15
Appendix A		Architectural Design Cell Libraries.....	16
Appendix B		Architectural Design Level Structure	17

8 Architectural Design Standards

8.1 Introduction

8.1.1 General

This MicroStation V8 based CADD Manual defines the requirements for scale drawings for all buildings and associated infrastructure to be produced by RailCorp Engineering, Architects Section, or their engaged sub-consultants.

This section of the Manual is to be used in conjunction with Section 1 & 2, which document the Corporation-wide standards. This section documents those standards that are specific to the Architecture discipline.

Any standards that are not documented in this section will normally be found in Section 1 of this manual, or in the Australian Standard AS1100, parts 101 & 501. Generally all drawings shall comply with Australian Standards and any project specific special requirements.

8.1.2 Architectural Design Products and Outputs

All products are related to buildings and associated infrastructure.

The building types vary due to the nature of the project. Examples include railway stations, stores, amenities, offices, training / educational facilities, electrical substations, car parks, landscaping and heritage buildings.

The most common drawing products can be grouped into the following:

- Plans (site plans, floor plans, reflected ceiling plans, etc.)
- Elevations (north, south, east, west, internal elevations, etc.)
- Sections
- Details

8.1.3 References

This Manual refers to other documents for further information or guidance. Those documents are as follows:

AS 1100.301 Architects Drawing Practice

AS 1100.301 Supplement

AS 1100.101 Technical Drawing – General Principles

8.1.4 Abbreviations

The following abbreviations have been used in this Manual:

AS Australian Standard

EDMS Engineering Design Management System

OHWS Overhead Wiring Structure

PP Power Pole

RAC Rail Access Corporation

RIC Rail Infrastructure Corporation

RSA Rail Services Australia

SRA State Rail Authority of NSW

RailCorp Rail Corporation New South Wales

8.2 Architectural Design Products and Stages

8.2.1 Feasibility / Scoping / Planning

This is the very first stage of a project, and is often used to assess the feasibility of proceeding with a project or to investigate various options. Drawings produced are sketch plan in style and are sometimes schematic only, not to scale, or block form diagrams. All drawings produced should have a Sketch plan number.

8.2.2 Concept Design (pre-D/A stage)

Conceptual design is carried out at the preliminary D/A stage of the project. Drawings produced are sketch plan in style and are sometimes schematic only. All drawings produced should have a Sketch plan number.

8.2.3 Design Development (D/A stage)

Design development stage follows on from the conceptual stage. It is when detailed design and planning is carried out, working out of accurate dimensions and details, and choice of materials. The design development drawing is a sketch drawing and as such should have a Sketch plan number.

8.2.4 Detail Design (Working Drawings)

Detail Design drawings are produced for construction purposes and form a part of the contract documentation for the project. These drawings are produced for builders to tender on and to build from. All Detail Design drawings should have an EDMS (Plan Room) number.

8.2.5 Standard Drawings

Standard drawings are approved drawings for various details, assemblies, components and the like. They usually apply to Railway specific work and are approved by the Principal Manager Buildings in consultations with the relevant stake holders. Standard drawings offer a means of consistency throughout the Railway network.

Examples of standard drawings include booking office windows and workstations which are used for all booking offices within the CityRail network.

Standard drawings which are to be used for tendering and construction should have an EDMS (Plan Room) number.

8.2.6 Specifications

Specifications are printed documents that describe the materials and standard of workmanship. Technical specifications are usually prepared for a specific project and, along with the Detail Design drawings, form a part of the contract documentation.

Technical specifications may contain other products such as standard drawings. The specification is cross-referenced with the Detail Design drawings. Usually only Part E of the Technical specification is prepared by the Architectural section, and usually Natspec is used as the basis for all technical specifications. The relevant Specification number should be printed on the cover or title page.

Performance specifications also describe materials and workmanship, but are usually generic and not related to a specific project. They describe how a certain object, finish, or the like, should perform under use. Performance specifications may be written for any type of building elements, such as floor finishes, ticket windows, etc. They may contain other products such as standard drawings.

8.2.7 Design Guides / Standards

Design guides or standards are generic or standard structures or components setting out design parameters (such as the Station Design Guide). They are usually printed documents containing the policies and procedures of the approved standards, and supported by diagrams, sketches or details.

8.2.8 Reports / Studies

Reports and studies are usually printed documents containing a range of information often supported by photographs, diagrams, sketches or details.

Reports are usually of a technical or advisory nature and may be carried out at any phase of a project. Studies are generally project specific and are usually undertaken at the feasibility / planning stage. Heritage studies are prepared for heritage listed assets and generally follow the guidelines of the NSW Heritage Office.

Technical reports are not necessarily project related but may involve investigations into generic standards for particular building elements, such as floor finishes, booking office standards, and the like.

Studies are usually printed documents containing supporting sketches. They may be A4 or A3 in size and any drawings, layouts, plans or tabular information should conform to the report size or be folded to fit into the report. They are generally schematic and involve broad planning solutions (e.g. proposed track amplification) or solutions to specific problems (e.g. leaking canopies / roofs).

8.3 Drawing Practice Standards

8.3.1 General

Generally standard drawing practice shall conform to the requirements of AS1100 Architectural Drawing Practice. For example, the depiction of door swings and window openings in plan and elevation shall generally follow standard architectural conventions.

The use of hatching or symbolic representation of different materials is not always necessary but can help to further clarify sections or details or where confusion might otherwise exist. Standard symbology or hatching according to AS 1100 shall be used.

Where new work and existing work are adjacent on a drawing, the new work should be clearly identified. The existing work may either be shaded, solid or drawn with thin lines, as appropriate. Consistency within the same drawing and throughout the whole project is important.

8.3.2 Railway Drawing Convention

The preparation of drawings for Rail Corporation New South Wales requires adherence to certain drawing conventions as follows:

Sydney is always drawn to the left-hand side of the drawing sheet.

If the work area is adjacent to the running tracks, the tracks should be indicated on plan. Tracks may be shown as either a single thin line, a centreline symbol, or as two thin lines representing the individual rails, depending upon scale and proximity to the work site.

Other items to show may include the following:

- Railway boundary
- Road access and adjacent public roads
- Railway infrastructure such as overhead wiring masts, signals, power poles, lighting poles, etc.
- Fences and gates
- Embankments, cuttings, slopes, etc.
- Drainage – surface, subsurface, and track related
- Structure gauge clearances to walls, roofs and other proposed structures.

Particular client standards should also be adhered to whenever relevant.

8.4 Architectural Design CAD Standards

8.4.1 File Naming Convention

8.4.1.1 Scope

This section defines the required naming format for RailCorp Architectural and Building Engineering Group. All drawing and design data file names shall be structured in the format set out in this section.

8.4.1.2 File Name Format

The data file format or structure is set out in Global Appendix 3 Section 2.5.3 of the CAD Manual.

The text format for the file name shall be in upper case only. The underbar (_) shall be used to separate file name components, not the dash (or minus '-') character.

RailCorp or its consultants may produce two kinds of 'unscaled' design data, either raster or vector, in electronic format. The first kind, using vector data, has not been drawn using standard working units (i.e. M, cm, mm, etc) or the design produced is disproportionate or is not dimensionally correct. The second kind of data is a rasterized, scanned image of a paper or film drawn sketch or drawing. These two kinds shall have the 900 number band, or the 'UN' (Unscaled) file ID applied to the file name. All other project data files submitted which are drawn to standard working units applied and are proportionately correct shall have the appropriate type definition applied from the table below.

8.4.1.3 Discipline Component

The first component of the file name identifies the engineering discipline the file belongs to.

For the Building and Architectural section the character 'A' is used.

8.4.1.4 Data Kind Definitions (File Type)

The second component of the file name, used by Architecture and Building, identifies the kind of design drawing contained in the file. The Building and Architectural group defines specific kinds of design data created including Plans, Elevations, Details, Models etc. The table below names the common kinds of drawings, the ID and the description.

See Section 2.5.10.2 of this manual

8.4.1.5 Amendment Character(s)

Amendment version is recorded using alphabetical values and is a globally used component of the file name.

See Section 2.5.3.5 of this manual

8.4.1.6 Minor Amendment Number

Amendment version number is recorded using numeric values which is also a globally used component of the design file name used by all design groups.

See Section 2.5.3.5 of this manual

8.4.1.7 File Purpose component

See Section 2.5.3.6 of this manual

8.4.1.8 Design Type (Required Detail)

The 6th file name component, used by Architecture and Building, describes the specifics of the design file content. A plan can be of an Architectural, Electrical, Furniture, Interior, or Site type. The same descriptive applies to elevations, sections, details and all other kinds of data content identified by kind. This additional information in the file name allows the user to more easily identify the contents of a file by looking at the file name.

_Type_ID	Description
_AR	Architectural is Generally Architectural arrangements
_EL	Electrical is primarily Electrical in content
_FU	Furniture is Primarily a Furniture Plan
_GN	General Arrangement plans which are of no specific type.
_IN	Interior is specifically an Interior Drawing of any kind
_LT	Lighting is Primarily a Lighting Plan
_LY	Layout is Primarily an Equipment Layout Plan
_SP	Site Plans I any plan which is external to the building

Table 1

8.4.1.9 File Extension

See Section 2.5.3.8 of this manual

8.4.1.10 Definitions

The term 'data' generally refers to any electronic file produced for a project. The term 'design data' or 'design' usually refers to the CAD 'vector' file format primarily being (Bentley) MicroStation .DGN or otherwise (Autodesk) AutoCAD .DWG. Design data may also refer generally to 'vector' data file content or line-based drawings and models.

8.4.2 Seed Files

See Section 1.8 of this manual

8.5 Cell Libraries

For a full listing of cell libraries and for use in drawings produced by or for the RailCorp Architects area, see Appendix A - Architectural Design Cell Libraries. For internal use, all files are located on the network at:

M:\Rail\ustn_wsV8i\RC_Modules\Architectural\cell.

8.6 Levels, Level Symbology Overrides and Symbology ByLevel

All levels and symbology shall be in accordance with this manual, (see Appendix B - Architectural Design Level Structure) and with MicroStation requirements. This level structure can be imported from:

M:\Rail\ustn_wsV8i\RC_Groups\Architec\dgnlib\ar_Level.dgnlib

Different levels shall be used to indicate and separate various features.

8.7 Drawing Content

8.7.1 Format and Layout

Drawing format and layout shall generally be in accordance with AS 1100.

Drawings other than A4 size shall be in landscape format. Trimming marks, grid reference, borders and frames shall be included, except for A4 size drawings.

Drawings shall be laid out so that information is clearly presented and easy to read.

8.7.2 Sheet Sizes

See Section 1 of this manual.

8.7.3 Title Blocks

For title block information see Section 1.11.2 of this manual

8.7.4 Scales

All scales are to comply with AS 1100 Part 7.

There are 13 scales recommended for architectural use. These are 1:1, 1:2, 1:5, 1:10, 1:20, 1:50, 1:100, 1:200, 1:250, 1:500, 1:1000, 1:2000 and 1:2500.

All drawings shall be produced to the preferred scales, or be noted as 'not to scale'.

Scales selected shall be large enough to permit easy and clear interpretation of information on drawings and shall ensure clarity of information on prints.

The number of different scales used on any one drawing shall be kept to the minimum necessary.

The scale shall be identified in the drawing title under each separate drawing shown.

Bar scales may be used to clarify the scales used particularly if more than one scale is used on a sheet.

8.7.5 Line work

See Section 1 of this manual.

8.7.6 Text

Text on drawings shall be upper case and uniform in size and placement.

Text sizes for specific text applications, such as notes or drawing titles, shall not vary within the same drawing.

Text height and text width shall be equal.

Space between lines of text shall be half of the text height.

Ideally text shall be placed so it does not overlap lines or symbols.

Text shall be readable from the bottom or right-hand side of the drawing, top-left justification.

Ideally text height shall be not less than 2.5 mm for any size of drawing sheet.

As a guide, text size and attributes shall generally be as follows:

Titles, headings and view labels	TX=5	LS=2.5	WT=3
Room and area labels	TX=3.5	LS=1.75	WT=2
General notes and dimensions	TX=2.5	LS=1.25	WT=0 or 1

8.7.7 Fonts

Architectural notations shall be "Comic Sans" for all sketch drawings. Standard Text shall be [Microsoft] Windows "Arial" for all normal text (Non-Engineering) for all Design Development, Detail Design and Working Drawing text. Engineering text shall be [Bentley] MicroStation font number "150" (ISO3098B) for engineering Design work text. Block text shall be [Microsoft] Windows "Arial Bold" for all major headings and any requirements for filled bold style text. Block outline text shall be [Microsoft] Windows "Swis721 BdOul BT" for all major headings and any requirements for outline bold style text.

8.7.8 Text Styles

The standard text styles listed below are available internally and may be imported from: M:\Rail\ustn_ws\8\RC_Groups\Architec\dgnlib\ar_Styles.dgnlib.

Architectural - Comic Sans	Architectural sketch design only. notes & dimensions
Block - Arial Bold	Block solid-fill text for title blocks, headings etc.
Block Open - Swis721 BdOul BT	Block Open not filled for title blocks, headings etc.
Standard - Arial	Text common to all documentation notes and dimensions which has no specific requirements other than delivering information.
Engineering - Font 105	Text that is particular to technical and engineering documentation which requires additional and specific symbols, icons and spacing amongst other things.

Table 2

Text styles are base size 1 and are automatically sized according to how they are being applied (placed as notes, headings etc).

8.7.9 Dimensions

Dimensions shall be in metric units of measure, shall be in millimetres, and shall be placed above dimension lines.

Dimensions shall be readable from the bottom or right-hand side of the drawing.

Dimension lines shall not be broken and should not cross other dimension lines if possible.

Dimension lines shall end in an oblique stroke or an arrow, the presentation of which shall be in accordance with AS 1100.301.

The approved standard dimension styles listed below may be imported from: M:\Rail\ustn_ws\8\IRC_Groups\Architec\dgnlib\ar_Dims.dgnlib. Text styles are applied to dimensions.

Dimension Style	Application	Text Style
Slash	Working drawings	Standard
Overall	Major dimensions	Standard
Setout	Set out dimensions	Standard
Arrow	Working dimensions	Standard
Dot	Other dimensions	Standard
Slash script	Architectural	Architectural

Table 3

8.7.10 Notes

Notes on drawings shall generally conform to Section 8.7.6, Text.

Standard notes and legends shall be used wherever relevant to permit easy and clear interpretation of information on drawings. Any abbreviations used shall be supported by a legend showing the full wording of each abbreviation.

Standard notes are available as cells in the CAD environment. Examples include:

“All dimensions in millimetres. Use figured dimensions only. Do not scale from this drawing.”

“Contractor shall check and confirm all dimensions on site prior to the commencement of any work.”

8.7.11 Amendments

The first issue of a drawing shall have the amendment suffix A or 1. Alpha characters (A, B, C, etc) shall be used for all Detail Design drawings, and numerals shall be used for all sketch drawings (1, 2, 3, etc).

Each drawing amendment of Detail Design drawings shall show the date and nature of the amendment in the space provided above the title block.

8.7.12 Associated Drawings

Associated drawings are other drawings produced for the same common project. These other disciplines may be within RailCorp or external and can include:

- Architects
- Civil Engineers
- Structural Engineers
- Mechanical Engineers
- Electrical Engineers
- Hydraulic Engineers
- Landscape Architects

Ideally all associated drawings for a common project shall be produced on the same size drawing sheets. Recommended drawing size is A1.

Associated Drawings shall be listed, as a minimum, on the first sheet or cover sheet of a set of Detail Design drawings. The title of the drawing and the drawing number shall be listed.

Example:	ASSOCIATED DRAWINGS
ARCHITECTURAL	
Site Plan, Plans & Elevations	CV 0123456
Sections and Details	CV 0123457
STRUCTURAL	
Floor slab plan	CV 0123458
Details	CV 0123459
ELECTRICAL	
Lighting and Power Layout	CV 0123460

8.8 Product Media

8.8.1 CAD Drafting

All CAD drawings shall adhere to standard drawing practice and this Manual.

CAD drawings may be prepared for any stage of a job.

At appropriate stages of drawing production, and always at drawing completion, all CAD drawings shall have a hard copy produced to be signed and retained as the original.

Originals should be stored / lodged in the appropriate place. An A3 sized copy of each drawing should be stored in the relevant Project file.

For uniformity in CAD production, the use of various tools should be as consistent as possible. For example, use of standard level maps, use of shading to differentiate between existing and new work, and the use of standard hatching / patterns to represent various materials or elements.

8.8.2 Manual Drafting

Generally manual drafting is no longer used to produce drawings.

8.8.3 Print / Paper

Paper plots may be made at any stage of any drawing. These may be used as check prints, or for client approval, or as hard copy issues to other disciplines, or the like.

Other non-graphical products such as reports and specifications shall be printed onto paper at the appropriate size.

8.8.4 Mounted Products

Presentation drawings may be prepared by CAD methods alone or by manual enhancement of CAD products. Mounted products shall be fixed to cardboard, foam core board, or the like.

The standard title block should be retained for all mounted presentation drawings (except perspectives) and should contain the correct identification, i.e., title, sketch plan number, date, etc.

8.8.5 Sample Boards / Colour Boards

Sample boards / colour boards consist of various 'stick-ons' to show the materials, finishes and colours proposed for a job. They should be labelled and notated and cross-referenced to the drawings if appropriate.

Sample boards / colour boards should contain the correct identification - title, date, RailCorp logo, etc – in the bottom right corner.

Proprietary materials and finishes should be identified by name, or as an example, or 'equal to' a product with the same performance.

Ideally colours should be referenced to AS 2700S (1985) as an example of colour choice. Colour name and number should be provided.

8.8.6 Perspectives

Perspectives or graphic illustrations may be prepared for any stage of a job. They may be board mounted, framed, photographed, or any combination, according to the purpose of the perspective and the clients' requirements.

8.8.7 Photographs

Photographs are often used to support a report or presentation. For a report they should be fixed to or printed on the appropriate size paper or card (usually A4 or A3) with the correct captions or titles. For presentation they should be fixed to drawings or boards as appropriate and be labelled with notes or titles to support the presentation.

8.9 Drawing Numbering

8.9.1 General

All Architectural products are to be identified by at least one number. Each drawing prepared by the Architectural Section shall have an identifying Project Number placed in the title block after 'Project No'. This shall be the corresponding Project number from the Job Register (eg A03001).

For drawings that are to be lodged in the Plan Room, i.e., Detail Design drawings, they shall have an EDMS number (as per Section 8.9.2). All other products such as Concept Design drawings shall have a Sketch Plan Number (as per Section 8.9.3).

8.9.2 EDMS (Plan Room) Number

Each drawing to be registered in the RailCorp Plan Room shall be identified by the appropriate numbers, which are obtainable from the Plan Room.

The types of Architectural drawings that should be registered in the Plan Room are Detail Design drawings for construction or as-built drawings.

8.9.3 Sketch Plan Number

The Sketch Plan Number shall consist of the relevant Project Number followed by a suffix. For example, A03001 S1 would be the first sketch plan for the Project Number A03001.

The Sketch Plan number shall be placed in the bottom right corner of the title block after 'No.'. For reports and other non-graphical products any reference numbers shall be printed on the cover or title page, or to the bottom right corner of products such as sample boards.

The originals of any products with a Sketch Plan number shall be stored in the Sketch Plan drawers or the Architects common storage cupboards.

Appendix A Architectural Design Cell Libraries

Below is a full listing of cell libraries for use in Architectural drawings produced by or for RailCorp. For internal use, all files are located on the network at:

M:\Rail\ustn_wsV8\RC_Groups\Architect\cell

AR_BathRoom.cel

AR_Bolts.cel

AR_BookingOffice.cel

AR_Doors.cel

AR_Electrical.cel

AR_Forms.cel

AR_Furniture.cel

AR_Graphics.cel

AR_Kitchen.cel

AR_Landscape.cel

AR_Notes.cel

AR_Patterns.cel

AR_People.cel

AR_Platform.cel

AR_Rail.cel

AR_Signage.cel

AR_Steel.cel

AR_Survey.cel

AR_Symbology.cel

AR_Transport2D.cel

AR_Washers.cel

AR_Windows.cel

A complete listing of cells can be obtained by down loading the resource files from the RailCorp Engineering Extranet and opening the cell libraries

Superseded by T MU MD 00006 ST v1.0

Appendix B Architectural Design Level Structure

The MicroStation v8 levels for placement of various types of elements, Level Symbology Overrides and Symbology ByLevel shall be in accordance with the table on this and the following pages.

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
A-DEMO-WALL	3000	Demolition Walls	0	0	0	56	2	0		
A-DEMO-DOOR	3001	Demolition Doors	0	0	0	56	2	0		
A-DEMO-WIND	3002	Demolition Windows	0	0	0	56	2	0		
A-DEMO-GLAZ	3003	Demolition Glazing	0	0	0	56	2	0		
A-DEMO-ROOF	3004	Demolition Roofing	0	0	0	56	2	0		
A-DEMO-CEIL	3005	Demolition ceiling	0	0	0	56	2	0		
A-DEMO-POST	3006	Demolition Posts and Columns	0	0	0	56	2	0		
A-DEMO-FLOR	3007	Demolition Floor structure	0	0	0	57	2	0		
A-DEMO-OPEN	3008	Demolition Openings	0	0	0	58	2	0		
A-DEMO-FIXT	3009	Demolition Fixtures	0	0	0	59	2	0		
A-DEMO-FITT	3010	Demolition Fittings	0	0	0	67	2	0		
A-DEMO-FOOT	3011	Demolition Footings	0	0	0	67	2	0		
A-DEMO-FURN-INDR	3012	Demolition Furniture Indoor	0	0	0	67	2	0		
A-DEMO-FURN-OUTD	3013	Demolition Furniture Outdoor	0	0	0	67	2	0		
A-DEMO-EQIP	3014	Demolition Equipment	0	0	0	67	2	0		
A-DEMO-PLAT	3015	Demolition Platform	0	0	0	67	2	0		
A-DEMO-FRAM	3016	Demolition Framing Structure	0	0	0	67	2	0		
A-DEMO-SUBW	3017	Demolition Subway	0	0	0	67	2	0		
A-DEMO-DECK	3018	Demolition Decking	0	0	0	68	2	0		
A-DEMO-APPL	3019	Demolition Appliances	0	0	0	69	2	0		
A-DEMO-SERV	3020	Demolition Services	0	0	0	75	2	0		
A-DEMO-FBRG	3021	Demolition Footbridge	0	0	0	75	2	0		
A-DEMO-BRGR	3022	Demolition Bridge Road	0	0	0	75	2	0		
A-DEMO-BRGT	3023	Demolition Bridge Rail	0	0	0	75	2	0		
A-DEMO-LAND	3024	Demolition Landscape Structure	0	0	0	75	2	0		
A-DEMO-VEGE	3025	Demolition Vegetation	0	0	0	75	2	0		
A-DEMO-LINE	3026	Demolition Miscellaneous Line work	0	0	0	76	2	0		
A-DEMO-LABL	3027	Demolition Miscellaneous Labeling	0	0	0	77	2	0		
A-DEMO-FILL	3028	Demolition Miscellaneous Fill	0	0	0	78	2	0		
A-DEMO-FILL-HTCH	3029	Demolition Miscellaneous Hatch	0	0	0	79	2	0		
A-DEMO-TEXT	3030	Demolition Structure Descriptions	0	0	0	4	2	0		
A-DEMO-SYMB	3031	Demolition Structure	0	0	0	4	2	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
		Symbology								
A-DEMO-DIMS	3032	Demolition Structure Dimensions	0	0	0	4	2	0		
A-DEMO-TRAN	3033	Demolition Stairs Ramps Elevators	0	0	0	87	2	0		
A-EXST-WALL	3034	Existing Walls	0	0	0	97	0	0		
A-EXST-DOOR	3035	Existing Doors	0	0	0	97	0	0		
A-EXST-WIND	3036	Existing Windows	0	0	0	97	0	0		
A-EXST-GLAZ	3037	Existing Glazing	0	0	0	97	0	0		
A-EXST-ROOF	3038	Existing Roofing	0	0	0	97	0	0		
A-EXST-CEIL	3039	Existing ceiling	0	0	0	97	0	0		
A-EXST-OPEN	3040	Existing Openings	0	0	0	97	0	0		
A-EXST-FOOT	3041	Existing Footing	0	0	0	97	0	0		
A-EXST-POST	3042	Existing Posts and Columns	0	0	0	98	0	0		
A-EXST-FLOR	3043	Existing Floor structure	0	0	0	99	0	0		
A-EXST-FIXT	3044	Existing Fixtures	0	0	0	101	0	0		
A-EXST-FITT	3045	Existing Fittings	0	0	0	101	0	0		
A-EXST-FURN-INDR	3046	Existing Furniture Indoor	0	0	0	102	0	0		
A-EXST-FURN-OUTD	3047	Existing Furniture Outdoor	0	0	0	103	0	0		
A-EXST-EQIP	3048	Existing Equipment	0	0	0	104	0	0		
A-EXST-APPL	3049	Existing Appliances	0	0	0	105	0	0		
A-EXST-PLAT	3050	Existing Platform	0	0	0	106	0	0		
A-EXST-FRAM	3051	Existing Framing Structure	0	0	0	107	0	0		
A-EXST-SUBW	3052	Existing Subway	0	0	0	108	0	0		
A-EXST-DECK	3053	Existing Decking	0	0	0	109	0	0		
A-EXST-FBRG	3054	Existing Bridge	0	0	0	115	0	0		
A-EXST-BRGR	3055	Existing Bridge Road	0	0	0	115	0	0		
A-EXST-BRGT	3056	Existing Bridge Rail	0	0	0	115	0	0		
A-EXST-VEGE	3057	Existing Vegetation	0	0	0	115	0	0		
A-EXST-SERV	3058	Existing Services	0	0	0	115	0	0		
A-EXST-TRAN	3059	Existing Stairs Ramps Elevators	0	0	0	115	0	0		
A-EXST-LAND	3060	Existing Landscape Structure	0	0	0	116	0	0		
A-EXST-LINE	3061	Existing Miscellaneous Line work	0	0	0	117	0	0		
A-EXST-SYMB	3062	Existing Structure Symbology	0	0	0	118	0	0		
A-EXST-DIMS	3063	Existing Structure Dimensions	0	0	0	4	0	0		
A-EXST-TEXT	3064	Existing Structure Descriptions	0	0	0	4	0	0		
A-WALL-OPEN	3065	Wall Opening	0	0	0	47	0	0		
A-WALL-FRAM	3066	Wall Framing	0	0	0	47	0	0		
A-WALL-CLAD	3067	Wall Cladding	0	0	0	47	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
A-WALL-OUTL	3068	Wall Outline	0	0	0	47	0	0		
A-WALL-FOOT-PADS	3069	Wall Footing Pads	0	0	0	45	0	0		
A-WALL-FOOT-STRP	3070	Wall Footing Strip	0	0	0	45	0	0		
A-WALL-FOOT-RAFT	3071	Wall Footing Raft	0	0	0	45	0	0		
A-WALL-FOOT-SECT	3072	Wall Footing Section	0	0	0	45	0	0		
A-WALL-DETL	3073	Wall Detail	0	0	0	47	0	0		
A-WALL-FITT	3074	Wall Fitting	0	0	0	47	0	0		
A-WALL-FIXT	3075	Wall Fixture	0	0	0	47	0	0		
A-WALL-FIXT-SIGN	3076	Wall Signage	0	0	0	47	0	0		
A-FLOR-FRAM	3077	Floor Framing	0	0	0	156	0	0		
A-FLOR-CLAD	3078	Floor Cladding	0	0	0	156	0	0		
A-FLOR-OUTL	3079	Floor Outline	0	0	0	156	0	0		
A-FLOR-LINE	3080	Floor Line work	0	0	0	156	0	0		
A-FLOR-STAR	3081	Stair From Floor	0	0	0	156	0	0		
A-FLOR-STAR-STEP	3082	Step From Floor	0	0	0	156	0	0		
A-FLOR-STAR-LADD	3083	Ladder From Floor	0	0	0	156	0	0		
A-FLOR-FITT	3084	Floor Fittings	0	0	0	156	0	0		
A-FLOR-FIXT	3085	Floor Fixtures	0	0	0	156	0	0		
A-FLOR-HTCH	3086	Floor Hatching	0	0	0	156	0	0		
A-DOOR-FRAM	3087	Door Framing	0	0	0	4	0	0		
A-DOOR-CLAD	3088	Door Cladding	0	0	0	28	0	0		
A-DOOR-OPEN	3089	Door Opening Lines	0	0	0	4	0	0		
A-DOOR-GLAS	3090	Door Glazing	0	0	0	15	0	0		
A-DOOR-LEAF	3091	Door Leaf	0	0	0	28	0	0		
A-DOOR-FITT	3092	Door Fittings	0	0	0	35	0	0		
A-DOOR-FIXT	3093	Door Fixtures	0	0	0	35	0	0		
A-WIND-FRAM	3094	Window Framing	0	0	0	37	0	0		
A-WIND-CLAD	3095	Window Cladding	0	0	0	37	0	0		
A-WIND-GLAS	3096	Window Glazing	0	0	0	15	0	0		
A-WIND-FITT	3097	Window Fittings	0	0	0	37	0	0		
A-WIND-FIXT	3098	Window Fixtures	0	0	0	37	0	0		
A-WIND-LEAF	3099	Window Leaf	0	0	0	37	0	0		
A-WIND-OPEN	3100	Window Opening	0	0	0	37	0	0		
A-CEIL-FRAM	3101	Ceiling Framing	0	0	0	98	0	0		
A-CEIL-CLAD	3102	Ceiling Cladding	0	0	0	98	0	0		
A-CEIL-OPEN	3103	Ceiling Opening	0	0	0	98	0	0		
A-CEIL-FIXT	3104	Ceiling Fixtures	0	0	0	98	0	0		
A-CEIL-FITT	3105	Ceiling Fittings	0	0	0	98	0	0		
A-CEIL-OUTL	3106	Ceiling Outlines	0	0	0	98	0	0		
A-CEIL-HTCH	3107	Ceiling Hatch	0	0	0	98	0	0		
A-ROOF-FRAM	3108	Roof Framing	0	0	0	127	0	0		
A-ROOF-CLAD	3109	Roof Cladding	0	0	0	127	0	0		
A-ROOF-GUTT	3110	Roof Guttering	0	0	0	127	0	0		
A-ROOF-GLAZ	3111	Roof Glazing	0	0	0	15	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
A-ROOF-OPEN	3112	Roof Opening	0	0	0	127	0	0		
A-ROOF-DETL	3113	Roof Detail	0	0	0	127	0	0		
A-ROOF-HIDD	3114	Roof Hidden Lines	0	0	0	127	0	0		
A-ROOF-HTCH	3115	Roof Hatching	0	0	0	127	0	0		
A-ROOF-FIXT	3116	Roof Fixtures	0	0	0	127	0	0		
A-ROOF-OUTL	3117	Roof Outlines	0	0	0	127	0	0		
A-APPL-DOMS	3118	Appliances - Domestic	0	0	0	97	0	0		
A-APPL-COMM	3119	Appliances - Commercial	0	0	0	97	0	0		
A-APPL-INDU	3120	Appliances - Industrial	0	0	0	97	0	0		
A-JOIN-DOMS	3121	Joinery - Domestic	0	0	0	127	0	0		
A-JOIN-CARP	3122	Joinery - General Carpentry	0	0	0	127	0	0		
A-JOIN-COMM	3123	Joinery - Commercial	0	0	0	127	0	0		
A-JOIN-GENL	3124	Joinery - General	0	0	0	127	0	0		
A-POST-OUTL	3125	Post Outlines	0	0	0	39	0	0		
A-POST-COLM	3126	Column Outlines	0	0	0	39	0	0		
A-POST-CLAD	3127	Post Cladding	0	0	0	39	0	0		
A-POST-FIXT	3128	Post Fixtures	0	0	0	39	0	0		
A-POST-FITT	3129	Post Fittings	0	0	0	39	0	0		
A-TRAN-STAR	3130	Stairs	0	0	0	107	0	0		
A-TRAN-STAR-LADD	3131	Ladders	0	0	0	107	0	0		
A-TRAN-RAMP	3132	Ramps	0	0	0	107	0	0		
A-TRAN-HRAL	3133	Handrails	0	0	0	107	0	0		
A-TRAN-MECH-LIFT	3134	Lifts	0	0	0	107	0	0		
A-TRAN-MECH-ESCL	3135	Escalators	0	0	0	107	0	0		
A-TRAN-LINE	3136	General Line work	0	0	0	107	0	0		
A-TRAN-FIXT	3137	Handrails and Fixtures	0	0	0	107	0	0		
A-TRAN-FITT	3138	General Fittings	0	0	0	107	0	0		
A-DETL-FRAM	3139	Details Generally Framework	0	0	0	43	0	0		
A-DETL-CLAD	3140	Details Generally Cladding	0	0	0	43	0	0		
A-DETL-PLAST	3141	Details Generally Plasterwork	0	0	0	43	0	0		
A-DETL-JOIN	3142	Details Generally Joinery	0	0	0	43	0	0		
A-DETL-METL	3143	Details Generally Metalwork	0	0	0	43	0	0		
A-DETL-FIXT	3144	Details Generally Fixtures	0	0	0	43	0	0		
A-DETL-FIXX	3145	Details Generally Fixings	0	0	0	43	0	0		
A-DETL-LINE	3146	Details Generally Miscellaneous Line work	0	0	0	43	0	0		
A-DETL-CONC	3147	Details Generally Parts Concrete	0	0	0	43	0	0		
A-DETL-PART-TIMB	3148	Details Generally Parts Concrete	0	0	0	43	0	0		
A-DETL-PART-METL	3149	Details Generally Parts	0	0	0	43	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
		Lists								
A-TEXT-LABL-MINR	3294	Labeling Minor Doors & Windows etc	0	0	0	4	0	0		
A-TEXT-LABL-MAJR	3295	Labeling Major Drawings Plans & Elevations	0	0	0	4	0	0		
A-TEXT-SYMG	3296	Symbology like Reduced Levels & Spot Levels	0	0	0	4	0	0		
A-TEXT-25	3297	Text 2.5	0	0	0	4	0	0		
A-TEXT-35	3298	Text 3.5	0	0	0	4	0	1		
A-TEXT-50	3299	Text 5.0	0	0	0	4	0	2		
A-TEXT-70	3300	Text 7.0	0	0	0	4	0	2		
A-TEXT-DIMS-MINR	3301	Dimensions Minor & General	0	0	0	4	0	0		
A-TEXT-DIMS-MAJR	3302	Dimensions Major	0	0	0	4	0	0		
A-TEXT-DIMS-SETO	3303	Dimensions Setout	0	0	0	4	0	0		
A-SHEET-LINE	3304	Sheet Graphics Line work	0	0	0	4	0	0		
A-SHEET-LABL	3305	Sheet Graphics labeling	0	0	0	4	0	0		
A-SHEET-TEXT-25	3306	Sheet Graphics text 2.5	0	0	0	4	0	0		
A-SHEET-TEXT-35	3307	Sheet Graphics Text 3.5	0	0	0	4	0	0		
A-SHEET-TEXT-50	3308	Sheet Graphics Text 5.0	0	0	0	4	0	0		
A-SHEET-TEXT-70	3309	Sheet Graphics Text 7.0	0	0	0	4	0	0		
A-SHEET-FILL	3310	Sheet Graphics Fill Pattern	0	0	0	4	0	0		
A-SHEET-NOTE	3311	Sheet Graphics Notation	0	0	0	4	0	0		
A-SHEET-NUMB	3312	Sheet Graphics Numbering	0	0	0	4	0	0		
A-SHEET-TABL	3313	Sheet Graphics Tables & Legends & Lists	0	0	0	4	0	0		
A-SHEET-SYMB	3314	Sheet Graphics Symbols & Bubbles & Box Notes	0	0	0	4	0	0		
A-SHEET-DIMS	3315	Sheet Graphics Dimensions	0	0	0	4	0	0		
A-SHEET-SETO	3316	Sheet Graphics Setout Line work	0	0	0	4	0	0		
A-SHEET-NRTH	3317	Sheet Graphics North Sign	0	0	0	4	0	0		
A-TRAK	3318	Existing Rail	0	0	0	161	0	1		
A-TRAK-RMVD	3319	Demolished Rail	0	0	0	2	2	0		
A-EXST-GRID	3320	Existing Grid	0	0	0	4	0	0		
A-TEXT-100	3321	Text 10.0	0	0	0	4	0	3		
A-HZRD-MATL	3322	Hazardous Material	0	0	0	0	0	0		
A-HZRD-MATL-GNRL	3323	Hazardous Material General	0	0	0	0	0	0		
A-HZRD-MATL-ASBT	3324	Hazardous Material Asbestos	0	0	0	0	0	0		
A-HZRD-MATL-CHEM	3325	Hazardous Material Chemicals	0	0	0	0	0	0		
A-HZRD-MATL-LEAD	3326	Hazardous Material Lead	0	0	0	0	0	0		
A-HZRD-MATL-PCB	3327	Hazardous Material PCB	0	0	0	0	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
A-HZRD-MATL-RFRG	3328	Hazardous Material Refridgerant	0	0	0	0	0	0		
A-HZRD-MATL-USDF-0001	3329	Hazardous Material User 1	0	0	0	0	0	0		
A-HZRD-MATL-USDF-0002	3330	Hazardous Material User 2	0	0	0	0	0	0		
A-STCT	3331	Structural	0	0	0	0	0	0		
A-STCT-DEMO	3332	Structural Demolition	0	0	0	0	0	0		
A-STCT-SITE	3333	Structural Site	0	0	0	0	0	0		
A-STCT-SUBS	3334	Structural Sub Structures	0	0	0	0	0	0		
A-STCT-FRAM	3335	Structural Framing	0	0	0	0	0	0		
A-STCT-USDF-0001	3336	Structural User Defined 1	0	0	0	0	0	0		
A-STCT-USDF-0002	3337	Structural User Defined 2	0	0	0	0	0	0		
A-INTR	3338	Interiors	0	0	0	0	0	0		
A-INTR-DEMO	3339	Interiors Demolition	0	0	0	0	0	0		
A-INTR-DSGN	3340	Interiors Design	0	0	0	0	0	0		
A-INTR-FURN	3341	Interiors Furnishing	0	0	0	0	0	0		
A-INTR-GRPH	3342	Interiors Graphics	0	0	0	0	0	0		
A-INTR-USDF-0001	3343	Interiors User Defined 1	0	0	0	0	0	0		
A-INTR-USDF-0002	3344	Interiors User defined 2	0	0	0	0	0	0		
A-EQPM	3345	Equipment	0	0	0	0	0	0		
A-EQPM-GEN	3346	Equipment Generally	0	0	0	0	0	0		
A-EQPM-ATHL	3347	Equipment Athletic	0	0	0	0	0	0		
A-EQPM-BANK	3348	Equipment Bank	0	0	0	0	0	0		
A-EQPM-DRYC	3349	Equipment Dry Cleaning	0	0	0	0	0	0		
A-EQPM-DTTN	3350	Equipment Detention	0	0	0	0	0	0		
A-EQPM-EDUC	3351	Equipment Educational	0	0	0	0	0	0		
A-EQPM-FOOD	3352	Equipment Food Services	0	0	0	0	0	0		
A-EQPM-HTPL	3353	Equipment Hospital	0	0	0	0	0	0		
A-EQPM-LAB	3354	Equipment Laboratory	0	0	0	0	0	0		
A-EQPM-MAIN	3355	Equipment Maintenance	0	0	0	0	0	0		
A-EQPM-PARK	3356	Equipment Parking Lot	0	0	0	0	0	0		
A-EQPM-RTAL	3357	Equipment Retail	0	0	0	0	0	0		
A-EQPM-SITE	3358	Equipment Site	0	0	0	0	0	0		
A-EQPM-THEA	3359	Equipment Theatrical	0	0	0	0	0	0		
A-EQPM-VDIO	3360	Equipment Video / Photographic	0	0	0	0	0	0		
A-EQPM-SCUR	3361	Equipment Security	0	0	0	0	0	0		
A-EQPM-USDF-0001	3362	Equipment User Defined 1	0	0	0	0	0	0		
A-EQPM-USDF-0002	3363	Equipment User Defined 2	0	0	0	0	0	0		
A-FIRE	3364	Fire Protection	0	0	0	0	0	0		
A-FIRE-GEN	3365	Fire Protection General	0	0	0	0	0	0		
A-FIRE-ALRM	3366	Fire Protection Detection And Alarm	0	0	0	0	0	0		
A-FIRE-SUPP	3367	Fire Protection	0	0	0	0	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
		Suppression								
A-FIRE-USDF-0001	3368	Fire Protection User Defined 1	0	0	0	0	0	0		
A-FIRE-USDF-0002	3369	Fire Protection User Defined 2	0	0	0	0	0	0		
A-PLMB	3370	Plumbing	0	0	0	0	0	0		
A-PLMB-GEN	3371	Plumbing General	0	0	0	0	0	0		
A-PLMB-SITE	3372	Plumbing Site	0	0	0	0	0	0		
A-PLMB-DEMO	3373	Plumbing Demolition	0	0	0	0	0	0		
A-PLMB-PIPE	3374	Plumbing Piping	0	0	0	0	0	0		
A-PLMB-EQIP	3375	Plumbing Equipment	0	0	0	0	0	0		
A-PLMB-USDF-0001	3376	Plumbing User 1	0	0	0	0	0	0		
A-PLMB-USDF-0002	3377	Plumbing User 2	0	0	0	0	0	0		
A-PRCS	3378	Process	0	0	0	0	0	0		
A-PRCS-SITE	3379	Process Site	0	0	0	0	0	0		
A-PRCS-DEMO	3380	Process Demolition	0	0	0	0	0	0		
A-PRCS-LQID	3381	Process Liquids	0	0	0	0	0	0		
A-PRCS-GAS	3382	Process Gases	0	0	0	0	0	0		
A-PRCS-PIPE	3383	Process Piping	0	0	0	0	0	0		
A-PRCS-EQIP	3384	Process Equipment	0	0	0	0	0	0		
A-PRCS-ELEC	3385	Process Electrical	0	0	0	0	0	0		
A-PRCS-INST	3386	Process Instrumentation	0	0	0	0	0	0		
A-PRCS-WATR	3387	Process Waters	0	0	0	0	0	0		
A-PRCS-CHEM	3388	Process Chemicals	0	0	0	0	0	0		
A-PRCS-AIRS	3389	Process Airs	0	0	0	0	0	0		
A-PRCS-XHST	3390	Process Exhaust	0	0	0	0	0	0		
A-PRCS-DRAN	3391	Process Drains and Reclaims	0	0	0	0	0	0		
A-PRCS-HPMG	3392	Process HPM Gases	0	0	0	0	0	0		
A-PRCS-SLRY	3393	Process Slurry	0	0	0	0	0	0		
A-PRCS-OILS	3394	Process Oils	0	0	0	0	0	0		
A-PRCS-VACC	3395	Process Vacuum	0	0	0	0	0	0		
A-PRCS-USDF-0001	3396	Process User Defined 1	0	0	0	0	0	0		
A-PRCS-USDF-0002	3397	Process User Defined 2	0	0	0	0	0	0		
A-MECH	3398	Mechanical	0	0	0	0	0	0		
A-MECH-SITE	3399	Mechanical Site	0	0	0	0	0	0		
A-MECH-DEMO	3400	Mechanical Demolition	0	0	0	0	0	0		
A-MECH-HVAC	3401	Mechanical HVAC	0	0	0	0	0	0		
A-MECH-PIPE	3402	Mechanical Piping	0	0	0	0	0	0		
A-MECH-INTR	3403	Mechanical Instrumentation	0	0	0	0	0	0		
A-MECH-USDF-0001	3404	Mechanical User Defined 1	0	0	0	0	0	0		
A-MECH-USDF-0002	3405	Mechanical User Defined 2	0	0	0	0	0	0		
A-ELEC	3406	Electrical	0	0	0	0	0	0		

Name	Number	Description	OverrideColor	OverrideStyle	OverrideWeight	ByLevelColor	ByLevelStyle	ByLevelWeight	GlobalDisplay	Plot
A-ELEC-SITE	3407	Electrical Site	0	0	0	0	0	0		
A-ELEC-DEMO	3408	Electrical Demolition	0	0	0	0	0	0		
A-ELEC-POWR	3409	Electrical Power	0	0	0	0	0	0		
A-ELEC-LITE	3410	Electrical Lighting	0	0	0	0	0	0		
A-ELEC-INST	3411	Electrical Instrumentation	0	0	0	0	0	0		
A-ELEC-COMM	3412	Electrical Telecommunications	0	0	0	0	0	0		
A-ELEC-AUXS	3413	Electrical Auxiliary Systems	0	0	0	0	0	0		
A-ELEC-USDF-0001	3414	Electrical User Defined 1	0	0	0	0	0	0		
A-ELEC-USDF-0002	3415	Electrical User Defined 2	0	0	0	0	0	0		
A-COMM	3416	Telecommunications	0	0	0	0	0	0		
A-COMM-AUDI	3417	Telecommunications Audio Visual	0	0	0	0	0	0		
A-COMM-CLCK	3418	Telecommunications Clock and Program	0	0	0	0	0	0		
A-COMM-INCM	3419	Telecommunications Intercom	0	0	0	0	0	0		
A-COMM-MNTR	3420	Telecommunications Monitoring	0	0	0	0	0	0		
A-COMM-DATA	3421	Telecommunications Data Networks	0	0	0	0	0	0		
A-COMM-TELE	3422	Telecommunications Telephone	0	0	0	0	0	0		
A-COMM-SCUR	3423	Telecommunications Security	0	0	0	0	0	0		
A-COMM-USDF-0001	3424	Telecommunications User Defined 1	0	0	0	0	0	0		
A-COMM-USDF-0002	3425	Telecommunications User Defined 2	0	0	0	0	0	0		
A-RSCS	3426	Resources	0	0	0	0	0	0		
A-RSCS-CIVL	3427	Resources Civil	0	0	0	0	0	0		
A-RSCS-STRC	3428	Resources Structural	0	0	0	0	0	0		
A-RSCS-ARCH	3429	Resources Architectural	0	0	0	0	0	0		
A-RSCS-MECH	3430	Resources Mechanical	0	0	0	0	0	0		
A-RSCS-ELEC	3431	Resources Electrical	0	0	0	0	0	0		
A-RSCS-USDF-0001	3432	Resources User Defined 1	0	0	0	0	0	0		
A-RSCS-USDF-0002	3433	Resources User Defined 2	0	0	0	0	0	0		
A-SHOP	3434	Contractor/Shop Drawings	0	0	0	0	0	0		