Technical Report CADD-99-1
October 1999

Tri-Service CADD/GIS Technology Center

A/E/C CADD Standard

Main Text and Appendices A, B, C, and D

Appendix E

The A/E/C CADD Standard is compliant with Version 1.0 of the U.S. National CAD Standard.

The A/E/C CADD Standard contains supplemental materials and DoD specific requirements not addressed in the U.S. National CAD Standard.

Release 1.8

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Preface

The "A/E/C CADD Standard Manual" has been developed by the Tri-Service CADD/GIS Technology Center (TSTC) to reduce redundant Computer-Aided Design and Drafting (CADD) standardization efforts within the Army, Navy, Air Force, and Corps of Engineers. The manual is part of an initiative to consolidate existing CADD drafting standards and to develop data standards that address the entire life cycle of facilities within the Department of Defense Tri-Services. The A/E/C CADD Standard Manual is part of a set of standards being developed by the TSTC. Additional manuals include the following:

a. A-E Deliverable Guidelines
b. Tri-Service Spatial Data Standards
c. Tri-Service Facility Management Standards

Information on all these documents can be obtained from the TSTC's web page at *http://tsc.wes.army.mil*.

Chapters 1-7 of this manual address topics such as presentation graphics, level/layer assignments, electronic file naming, and standard symbology. Appendices A-E contain tables on model and sheet file level/layer names, color comparisons with associated line widths, as well as A/E/C CADD symbology. As this manual evolves, it will also include nongraphic database standards. The beta release of the nongraphic attributes will be available late in 1999. The TSTC's primary goal is to develop a CADD standard that is generic enough to operate under various CADD software packages (such as MicroStation and AutoCAD) and incorporate existing industry/national standards. In the final phase of developing this standard, platform-specific software will be provided to implement the standard on hardware platforms available through the Navy's Installation Management/Facilities CAD2 (IM/FCAD2) contract.[1]

Mr. Harold L. Smith is Chief of the TSTC, which is located in the Information Technology Laboratory (ITL), U.S. Army Engineer Research and Development Center, Waterways Experiment Station (WES), Vicksburg, MS. The Acting Director of ITL is Mr. Timothy D. Ables. At the time of publication of this report, the Acting Director of WES was COL Robin R. Cababa, EN.

United States National CAD Standard

In 1995, the combined resources of the Tri-Service CADD/GIS Technology Center, the American Institute of Architects (AIA), the Construction Specifications Institute (CSI), the United States Coast Guard, the Sheet Metal and Air Conditioning Contractors National Association (SMACNA), the General Services Administration (GSA), and the National Institute of Building Sciences' (NIBS) Facility Information Council began an effort to develop a single CADD standard for the United States. Working together, these organizations agreed to develop an integrated set of documents that collectively would represent the United States National CAD Standard.

[1] The Installation Management/Facilities CAD2 (IM/FCAD2) contract is a computer hardware/software/services contract awarded to both Tracor Incorporated and Intergraph Corporation in 1993.

The sections of the United States National CAD Standard were developed as follows:

- Layering and model file naming were developed and published by AIA, with assistance from CSI and TSTC.

- Drawing set organization and sheet file naming were developed and published by CSI, assisted by TSTC, and reviewed by AIA.

- Sheet organization was developed and published by CSI, with assistance from AIA and TSTC.

- Schedules were developed and published by CSI, assisted by TSTC, and reviewed by AIA.

- Plotting guidelines (colors and line weights) were developed by TSTC and the United States Coast Guard, published by TSTC, and reviewed by CSI and AIA.

- Drafting conventions including notations, symbols, diagrams, scales, and line types were developed by CSI, TSTC, the United States Coast Guard, and SMACNA; assisted by AIA; and published by CSI.

- Nongraphic attributes will be developed and published by TSTC, the International Alliance for Interoperability (IAI), vendors, and trade associations, with review by CSI and AIA.

A Memorandum of Understanding (MOU) was signed on August 8, 1997. In accordance with that MOU, Release 1.8 of the A/E/C CADD Standard follows, utilizes, or references the work developed by each of the signatories. The two main documents referenced within Release 1.8 of the A/E/C CADD Standard are

- "The Uniform Drawing System"
  The Construction Specifications Institute
  601 Madison Street
  Alexandria, VA 22314-1791
  http://www.csinet.org

- "CAD Layer Guidelines"
  The American Institute of Architects Press
  1735 New York Avenue, N. W.
  Washington, DC 20006
  http://www.aiaonline.com/

Each of these documents can currently be obtained from the authoring agency or can be purchased together as part of the United States National CAD Standard. Additional information on the United States National CAD Standard can be obtained from

- NIBS Facility Information Council
  National Institute of Building Sciences
  1090 Vermont Avenue, N. W., Suite 700
  Washington, DC 20005-4905
  http://www.nationalcadstandard.org

Subsequent releases of the A/E/C CADD Standard will become an appendix (or supplement) to the United States National CAD Standard and will address DoD specific requirements that are not covered in the United States National CAD Standard.

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1 Introduction

Acronyms

First, a few useful acronyms:

- A/E - Architect-Engineer
- A/E/C - Architectural, Engineering, and Construction
- AIA - American Institute of Architects
- ANSI - American National Standards Institute
- ASTM - American Society for Testing and Materials
- CAD - Computer-Aided Drafting
- CADD - Computer-Aided Design and Drafting
- CSI - Construction Specifications Institute
- DoD - Department of Defense
- FM - Facility Management
- GIS - Geographic Information System
- IAI - International Alliance for Interoperability
- IFC - Industry Foundation Class
- IOC - Intelligent Object Class
- ISO - International Organization for Standardization
- NIBS - National Institute of Building Sciences
- SI - International System of Units (Le Système International d'Unités)
- TSTC - Tri-Service CADD/GIS Technology Center
- UDS - Uniform Drawing System

Scope

This manual provides guidance and procedures for preparing Computer-Aided Design and Drafting (CADD) products within the Department of Defense (DoD) Tri-Services.

Chapters 1-7 of this manual address topics such as presentation graphics, level/layer assignments, electronic file naming, and standard symbology. Appendices A-E contain tables on model and sheet file level/layer names, color comparisons with associated line widths, as well as Architectural, Engineering, and Construction (A/E/C) CADD symbology.

Purpose

The purpose of this manual is to set a basic CADD standard to ensure consistent electronic deliverables (products) within the DoD Tri-Services. These consistent deliverables are part of a comprehensive installation life-cycle management strategy. This manual sets a CADD standard specifically for the architectural, engineering, and construction disciplines of facilities development. As this manual evolves, it will be integrated with other standards initiatives by the Tri-Service CADD/GIS Technology Center (TSTC) such as Architect-Engineer (A/E)

Deliverables Guidelines, Tri-Service Spatial Data Standards, and Facility Management (FM) Standards.

Background

The immediate benefits of CADD standards are many: consistent CADD products for customers; uniform requirements for A/E deliverables; sharing of products and expertise; and collection, manipulation, and exchange of database information. Recognizing such potential benefits, each of the Tri-Service agencies independently initiated efforts to establish CADD standards in the late 1980's. The Air Force Logistics Command (1989) released the "Architectural and Engineering Services for CADD Implementation Within Air Force Logistics Command." Headquarters, U.S. Army Corps of Engineers (1990), published Engineer Manual 1110-1-1807, "Standards Manual for U.S. Army Corps of Engineers Computer-Aided Design and Drafting (CADD) Systems." In 1993, the Naval Facilities Engineering Command distributed its "Policy and Procedures for Electronic Deliverables of Facilities Computer-Aided Design and Drafting (CADD) Systems."

To consolidate these efforts into a single standard, the TSTC was tasked to develop standards for the A/E/C disciplines, facility management, and GIS planning. This manual presents the TSTC's effort at standardizing CADD requirements for A/E/C design and construction documents. To facilitate the use of this standard, a supplementary software package will be provided that automates the use of the standard. This software will allow the operator to select preset system variables to align with the requirements of the "A/E/C CADD Standard Manual" to ensure consistent and easy compliance with the standard (see Chapter 6, "Tri-Service A/E/C CADD Standard Implementation Tools").

International System of Units (SI) Considerations

For this standard manual, the impact of the SI, more commonly referred to as the metric system, is addressed on such items as drawing scales, sheet sizes, and dimensioning. The SI was established by the General Conference of Weights and Measures of 1960, as interpreted or modified from time to time for the United States by the Secretary of Commerce under the authority of Public Law 94-168, the Metric Conversion Act of 1975, and the Metric Education Act of 1978. As of January 1, 1992, in accordance with Public Laws 94-168 and 100-418, the Omnibus Trade and Competitiveness Act of 1988, and Executive Order 12770, "Metric Usage in Federal Governmental Programs," July 25, 1991, all new and revised construction standards and criteria must be developed using the SI.

Future Technologies

There are several ongoing initiatives to create a universal language for collaborative work in the area of building and construction software. This work stems from the need to automate current building and construction tasks to become more efficient and cost effective. One of these initiatives is by the International Alliance for Interoperability (IAI), a nonprofit building industry alliance comprising architects, engineers, contractors, software vendors, government agencies, research laboratories, and universities. The goal of the IAI is to unite the AEC/FM business by specifying Industry Foundation Classes (IFCs) as a universal language. The concept behind the IFCs is to create a series of standard intelligent software objects for the building industry that allow all process disciplines (i.e., architects, designers, engineers, builders, facilities managers, etc.) to exchange information. The IAI is developing IFCs that allow current software packages such as AutoCAD and MicroStation to share building and construc-tion data. IFCs would improve the quality of the life cycle of a building from

construction through maintenance and ultimately to demolition. These improvements would result from reductions in expense and delivery time, enhanced communi-cations, and an increase in discipline proficiency.

A prerequisite of this effort is the deployment of mechanisms capable of retaining knowledge during the project life cycle. Intelligent Object Classes (IOCs) can serve this purpose. An IOC gathers information during the progression of the project and makes it available to the participants. Starting from the design phase, IOCs collect additional data about an object, for example, "how to design" or "how to construct" that particular object. The structure of an IOC contains information about the following:

- Generic attributes of common use (e.g., identification, material).
- Methods to support specialist tasks (e.g., volume calculations).
- CAD representation information including geometry and topology.
- Interrelationships with other objects.

In tandem with the IAI effort, the TSTC is developing nongraphic attribute data as part of the A/E/C CADD Standard. This attribute information will be distributed for review in 1999.

Interchangeable Terminology

Within the various commercially available CADD systems, many identical or related concepts are given different names. To aid users of this manual, some instances of related or interchangeable terminology used in MicroStation and AutoCAD are listed in Table 1.

Target Systems

This manual is not targeted toward any specific CADD system. However, to ensure successful translations among CADD applications, certain system-specific characteristics were considered and the standard adjusted accordingly. In preparing the standard, several baseline decisions were made:

- The standard must be applicable to commercially available CADD packages. AutoCAD Release 14 and MicroStation Versions 95 and SE were chosen based on their prevalence in the DoD Tri-Services and their availability to the Tri-Service through the Installation Management/Facilities CAD2 contract.
- The standard is based on CADD applications that utilize layer/level names and reference files.
- The standard requires every final plotted drawing sheet to have its own separate electronic drawing file.
- Since three-dimensional files are not compatible with two-dimensional files, it is recommended that all drawings be created as 3-D files.

Additions/Revisions

This standard is intended to be neither static nor all-inclusive and thus will be updated and enhanced as appropriate. Suggestions for improvements are strongly encouraged so that subsequent updates will reflect the input and needs of CADD users within the Tri-Services.

Recommendations or suggested additions should be sent to:

Tri-Service CADD/GIS Technology Center
USAE Research and Development Center,
Waterways Experiment Station
ATTN: CEWES-ID-C/Spangler
3909 Halls Ferry Road
Vicksburg, MS 39180-6199

Or by e-mail at: spangls@wes.army.mil

Table 1
Interchangeable Terminology

MicroStation	AutoCAD	Definition
Integer d/b	64-bit floating point d/b	The method for storing drawing attribute data.
Disk-based	Memory-based	Where drawing data are stored until the active file is closed.
Auxiliary Coordinate System (ACS)	User Coordinate System (UCS)	An XYZ coordinate system where the origin is selected by the user.
Active	Current	File or object in use.
Cell	Block	Single or multiple entities grouped together to create a single element.
Dimension attributes	Dimensions styles	Controls the appearance of dimension elements.
.dgn	.dwg	A DOS-based extension for drawing files.
Drop	Explode	Converts an element into multiple entities.
Dynamic update	Dragmode/rubberbanding	Display of element(s) being drawn or modified as pointer/cursor moves on the screen.
Element	Entity	A single object contained in a drawing.
Fit	Zoom all	Displays all graphics currently in the drawing file.
Global origin/design cube	World Coordinate System/Origin	Defines the location(s) of all entities in a design/drawing using the Cartesian coordinate system.
Identify/accept	Select/pick	Entity or entities chosen for manipulation or modification.
Image	Slide	A screen capture of graphics in raster format.
Key entry field	Command prompt	Allows for keyboard input from users.
Key point snap	Object snap (Osnap)	Controls the selection location for entities.
Levels	Layers	Used as transparent overlays for display graphics.
Line style	Linetype	Defines the appearance of lines.
Linestring	Polyline	Connected line segments.
Locate tolerance	Pickbox	Identification/selection limits for the drawing cursor.
MDL/Visual BASIC	ARX/AutoLISP	System-specific command language.
Message field	Status line	Displays current drawing status and/or text output from the application.
Monument point	Insertion point	Benchmark point used to place objects in a drawing.
Move element	Move	Relocation of entities.
Patterning	Hatching	To fill an area within a drawing with a symbolic texture.
Precision key in	Coordinate entry	User-defined XYZ values.
Reference file	External reference	A design/drawing file attached to an active drawing.
Seed file	Prototype drawing	A drawing design template file.
Tentative/Data point	Pointing/pick point	A point within the drawing selected using a pointing device.
Update	Redraw/Regenerate	Refreshes screen display.

2 Drawing File Organization

Design Cube

Available drawing area

The two most extensively used CADD applications within the DoD Tri-Service, AutoCAD and MicroStation, manage the available drawing area in an electronic file differently. MicroStation has a limited drawing area (design cube) composed of individual points that restrict the physical size of any drawing (Figure 1).

MicroStation's design cube has 4,294,967,296 points in each axis (x,y,z) of the design cube. These points are called positional units (PU). Positional units are grouped into larger units called subunits (SU), and subunits are grouped into even larger units called master units (MU). Together, these groups are called working units (MU:SU:PU). These groups will be discussed in more detail in the next section.

By defining the values of working units, the MicroStation user defines the measurable limits of the design cube. For example, the working units for most architectural drawings (feet-inches) are 1:12:8000 (MU = feet, SU = inches). With these working units, a design cube of 44,739 feet per side is created:

4,294,967,296 ÷ (12 in./ft x 8000) = 44,739 ft

For an SI (metric) drawing with working units of 1:1:10 (MU = millimeters, SU = none), the design cube has a length of 429,496,729 millimeters per side.

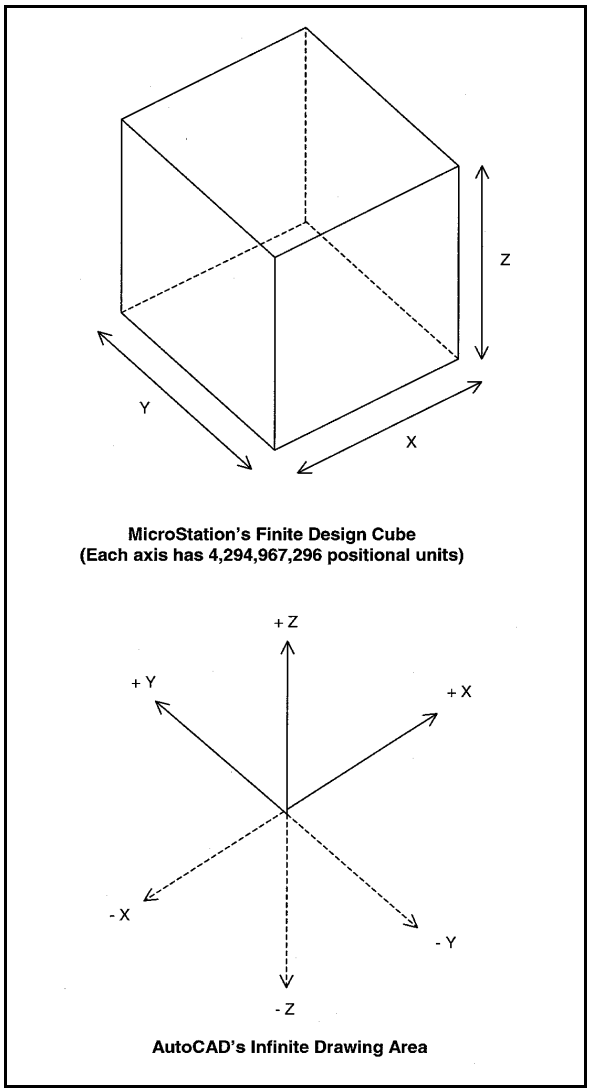

Figure 1. Available drawing size

4,294,967,296 ÷ (1 mm x 10) = 429,496,729 mm

In contrast, AutoCAD's approach provides for a drawing area with infinite range in each positive and negative axis (x,y,z).

File accuracy (units)

CADD systems allow the designer to work in "real world" units. The most common units are feet and inches, feet and tenths of feet, meters, and millimeters.

MicroStation's approach to file accuracy allows the user to set the working units (i.e., real world units) as the following, introduced in the previous section:

- Master units (MU) = The largest unit that may be referred to when working in the design file (e.g., feet, meters).
- Subunits (SU) = Subdivisions of master units in the working unit definition (e.g., inches, millimeters).
- Positional units (PU) = The smallest unit that may be addressed in the design file. The number of positional units per subunit determines the precision of the drawing and the size of the design cube.

In AutoCAD, the basic drawing unit for any file is the distance between two fixed Cartesian coordinates. For example, the distance between coordinates (1,1,1) and (1,1,2) is one drawing unit. A drawing unit can correspond to any measurement (e.g., inch, foot, meter, mile). AutoCAD users may enter the "Units" display option to set the desired drawing units (also called "report format").

The "Units" command of AutoCAD Release 14 does not have a direct metric system setup. For metric designs, the recommended procedure is to choose the "decimal" report format in the units display option (Figure 2). This will allow each drawing unit to represent decimal meters,

Figure 2. AutoCAD Units Dialog Box

millimeters, etc., at the discretion of the user.

Drawing units/working units recommendations

Recommendations for working units in MicroStation design files are shown in Table 2.

Release 1.4 of the Tri-Service A/E/C CADD Standards (Tri-Service CADD/GIS Technology Center 1995) recommended working units of 1:12:254 (MU:SU:PU). These working units allow simple conversion between inch-pound and metric drawings, but only provide an accuracy down to 1/8 in. Release 1.8 recommends working units of 1:12:8000 to allow accuracy to 0.001 of 1/8 in. (i.e., 1000 positional units per 1/8 in.).

Note: *Any drawings previously designed with working units of 1:12:254 will not be compatible with drawings created with working units of 1:12:8000. The old drawings can be made compatible by resetting the working units to the new standard and scaling the drawing by a scale factor of 31.496.*

AutoCAD users should choose either the architectural (feet and inches), engineering (feet and tenths), or decimal (suitable for meters or millimeters) report formats as provided in the "Units" command screen.

Table 2 MicroStation Working Units and Global Origins					
Units	**MU**	**SU**	**PU**	**Design Cube Size**	**Recommended Global Origin**
Inch-pound (A/E/C)	1 (ft)	12 (in)	8000	44,739 ft/side	GO=22369.6213, 22369.6213, 22369.6213
Inch-pound (Civil/Site, Civil Works, Geotechnical, Survey/Mapping)	1 (ft)	100	10	4,294,967 ft/side	GO=0, 0, 2147483.648
Metric (A/E/C)	1 (mm)	1	10	429,496,724 mm/side	GO=214748364.8, 214748364.8, 214748364.8
Metric (Civil/Site, Civil Works, Geotechnical, Survey/Mapping)	1 (m)	1000	1	4,294,967 m/side	GO=0, 0, 2147483.648
Metric (Mechanical Machine Design)	1 (mm)	1000	1	4,294,967 mm/side	GO=2147483.648, 2147483.648, 2147483.648

Origin (Global Origin)

Positioned within every electronic drawing file is an origin ("global origin" in MicroStation and "origin" in AutoCAD). The origin of a drawing file is important because it serves as the point of reference from which all other elements are located. Origins are typically defined (located) in a drawing file by the Cartesian coordinate system of x, y, and z (Figure 3).

The benefit of standardizing the location of the origin of a drawing is most notable in the use of reference files (see section "Reference Files (XREFs)" in Chapter 4). Also, in certain disciplines, particularly mapping, the location of the origin determines the available drawing area (MicroStation only). A standardized origin is also helpful when translating files between CADD applications. Origin recommendations are given in Table 2 (Note: for AutoCAD users the recommended global origin will be 0,0,0).

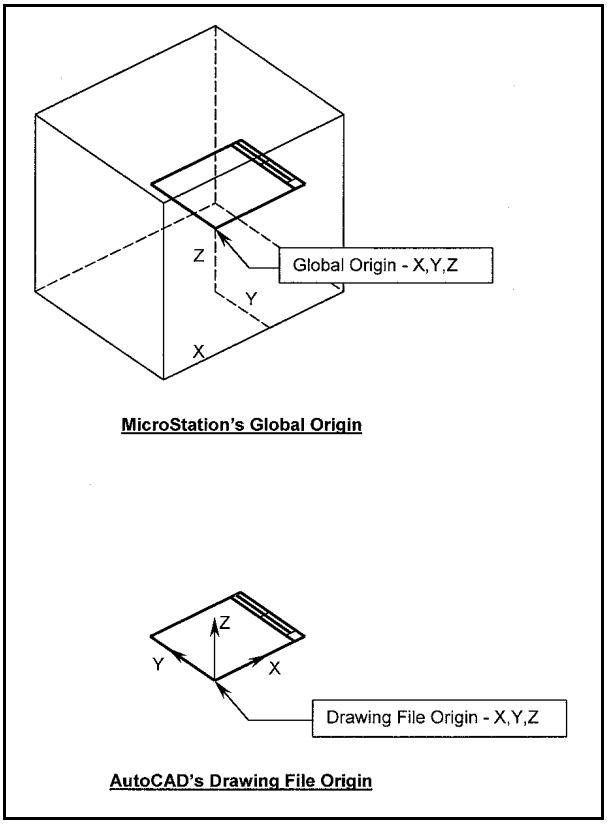

Figure 3. Origins in MicroStation and AutoCAD

Note: *In MicroStation, the location of the global origin does not affect the size of the design cube, but does limit the range of the positive and negative x, y, and z positional units. For example, a design file with the global origin located in the center of the design cube limits the number of positional units in each axis (x, y, and z) to 2,147,483,648.*

Model Files and Sheet Files

Two distinct types of CADD files are addressed in this standard: model files and sheet files.

A model file contains the physical components of a building (e.g., columns, walls, windows, ductwork, piping, etc.). Model files are drawn at full scale and typically represent plans, elevations, sections, etc.

A sheet file is synonymous with a plotted CADD drawing file. A sheet file is a selected view of the model file(s) within a border sheet. Sheet files are usually plotted at full scale (1=1), since the model files are referenced into the sheet file at a particular scale ratio. In other words, a sheet file is a "ready-to-plot" CADD file.

Figure 4 illustrates how different model files are referenced to a sheet file (notice that the border sheet is always a referenced model file). A sheet file is the combination of referenced model files with sheet-specific text/symbols to create a final "ready-to-plot" CADD file. A useful American Institute of Architects (AIA) rule of thumb states: "Model files are always referenced by other files, while sheet files are never referenced by other files." See Chapter 4 for additional information.

Electronic Drawing File Naming Conventions

Naming conventions for electronic drawing files (both model files and sheet files) allow CADD users to determine the contents of a drawing without actually displaying the file. They also provide a convenient and clear structure for organizing drawing files within project directories. The standard naming conventions provided within this manual are based on the eight-character file name limitation of the DOS operating system. To accommodate the more common conventions currently used within the DoD Tri-Services, this manual provides two acceptable file naming

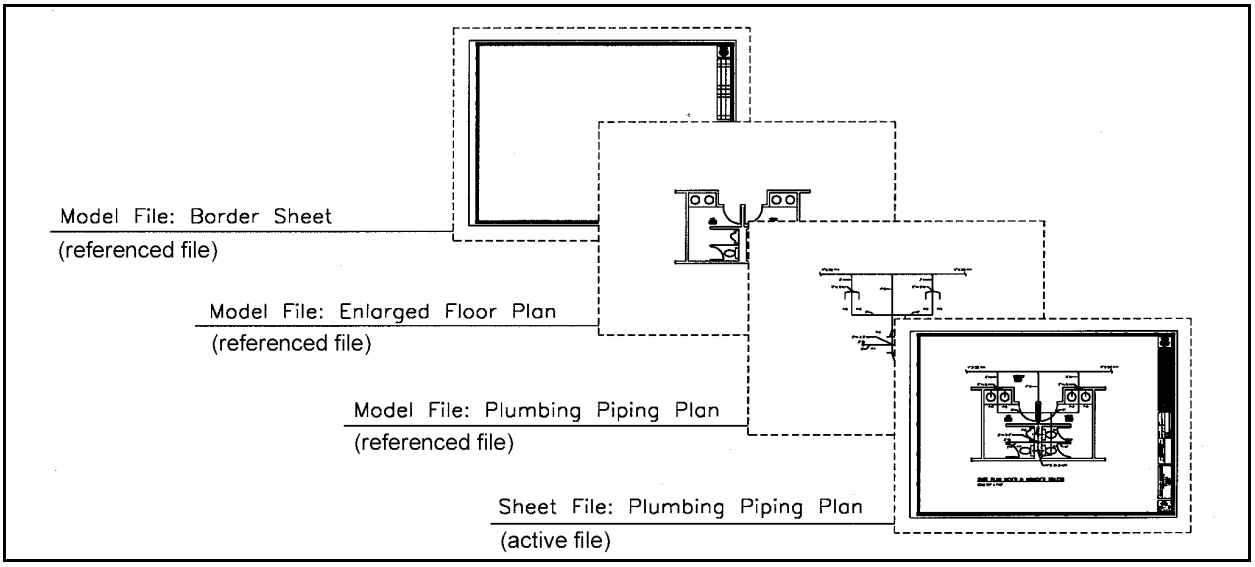

Figure 4. Sheet file composition

methodologies. These methodologies are the Industry Standard and the Tri-Service Optional.

Note: *Most current operating systems allow for file names longer than eight characters. However, some file transfer methods (e.g., CD-ROM writers, e-mail) are not able to handle long file names and will truncate the name to eight characters. Therefore, this standard will continue to promote eight-character file names until this limitation is resolved.*

Note: *The Industry Standard file naming conventions are those developed by the AIA (model file naming) (AIA 1997) and Construction Specifications Institute (CSI) (sheet file naming) (CSI 1997) as part of the United States National CAD Standard Initiative.*

Industry Standard model file naming convention

The Industry Standard model file naming convention has two sets of two-character fields followed by a four-character user-definable field (Figure 5).

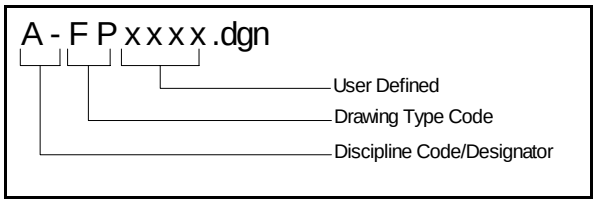

Figure 5. Industry Standard model file naming convention

The first two-character field represents the *Discipline Code/Designator*. The allowable characters for this field are listed in Table 3. (Note: the second character of this field is, in most cases, a hyphen. However, this character can be used to further define a discipline code; e.g., kitchen equipment would be designated as QK, see note on *Uniform Drawing System* on page 11.) The second two-character field represents the *Drawing Type Code* (Table 4). The final four-character field is user-definable.

Table 3

Industry Standard Discipline Codes/Designators

Discipline	Character
General	G
Survey and Mapping	V
Hazardous Materials	H
Civil	C
Geotechnical	B
Landscape	L
Structural	S
Architectural	A
Interiors	I
Equipment	Q
Fire Protection	F
Plumbing	P
Mechanical	M
Electrical	E
Telecommunications	T
Process	D
Resource	R
Operations	O
Other Disciplines	X
Contractor/Shop Drawings	Z

Note: *Some CD-ROM writing utilities do not recognize a hyphen (" -") as a legal file name character. For these utilities, use either an underscore ("_") for the hyphen or utilize the Tri-Service Optional file naming conventions.*

Example 1: The name for a simple Architectural Demolition Plan model file would be:

A-DP.dgn/dwg

Example 2: For a building that has multiple floors, a possible model file name for an architectural demolition plan for Floor 1 would be:

A-DPF1.dgn/dwg

Table 4

Industry Standard Drawing Type Codes

Discipline	Code	Definition
All Disciplines		
	FP	Floor Plan
	SP	Site Plan
	DP	Demolition Plan
	QP	Equipment Plan
	XP	Existing Plan
	EL	Elevation
	SC	Section
	DT	Detail
	SH	Schedule
	3D	Isometric/3D
	DG	Diagram
Architectural (A-)		
	CP	Ceiling Plan
	EP	Enlarged Plan
	NP	Finish Plan
	RP	Furniture Plan
Civil (C-)		
	EP	Environmental Plan
	GP	Grading Plan
	RP	Road/Topographic Plan
	SV	Survey Plan
	UP	Utility Plan

Table 4 (continued)

Discipline	Code	Definition
Electrical (E-)		
	CP	Communications Plan
	GP	Grounding Plan
	LP	Lighting Plan
	PP	Power Plan
Fire Protection (F-)		
	VP	Evacuation Plan
	KP	Sprinkler Plan
Interiors (I-)		
	CP	Ceiling Plan
	EP	Enlarged Plan
	NP	Finish Plan
	RP	Furniture Plan
Mechanical (M-)		
	CP	Control Plan
	HP	HVAC Ductwork Plan
	PP	Piping Plan
Plumbing (P-)		
	PP	Plumbing Plan
Structural (S-)		
	FP	Framing Plan
	NP	Foundation Plan
Telecommunications (T-)		
	DP	Data Plan
	TP	Telephone Plan

Industry Standard sheet file naming convention

The Industry Standard sheet file naming method (Figure 6) standardizes the first two characters as the *Discipline Code/Designator* (Table 3 and note on *Uniform Drawing System* on page 11), the third character as the *Sheet Type Code/Designator* (Table 5), and the fourth and fifth characters as the *Sheet Sequence Identifier* (01-99). The remaining three characters are user-definable.

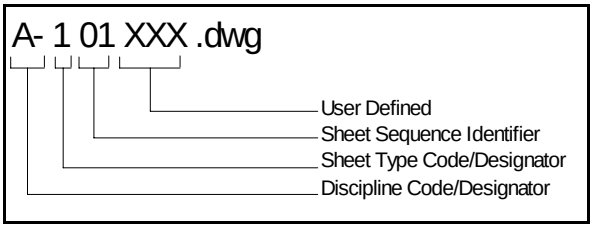

Figure 6. Industry Standard sheet file naming convention

Table 5
Industry Standard Sheet Type Codes/Designators

Drawing Type	Characters
General (symbols, legend, notes, etc.)	0
Plans (horizontal views)	1
Elevations (vertical views)	2
Sections (sectional views)	3
Large Scale (plans, elevations, or sections that are not details)	4
Details	5
Schedules and Diagrams	6
User Defined	7
User Defined	8
3D Views (isometrics, perspectives, photographs)	9

Example 1: The file name for a simple Architectural Floor Plan sheet file would be:

A-101.dgn/dwg

Example 2: For a building that is divided into multiple quadrants and multiple floors, a possible sheet file name for an architectural floor plan showing Floor 2, Quadrant C, would be:

A-101F2C.dgn/dwg

Note: *The Uniform Drawing System (CSI 1997) (Appendix A, UDS-01.35-.41) contains two levels for designating the discipline code/designator based on the complexity of the project. For the simplest level, Level One (which is presented here), the second character is filled by a hyphen (-). Examples would be Architectural (A-), Electrical (E-), etc. For very complex projects with the possibility of hundreds of sheet files within disciplines, the Level Two discipline codes/designators fill the second character with a discipline modifier (e.g., Landscape Demolition (LD), Landscape Irrigation (LI), Landscape Planting (LP)). For more information on this topic, please see CSI 1997.*

The Industry Standard file naming methodology relies solely on directory structure to differentiate individual projects (i.e., all the design files for a particular project are in a directory with the project name). Some system administrators find this method inadvisable because it permits the same file name to exist in different directories. The possibility of overwriting files with identical names is a constant problem. Figure 7 shows a typical file structure for this method.

Tri-Service Optional model file naming convention

In the Tri-Service Optional model file naming convention (Figure 8), the first three characters of the file name are the *Project Code*. Project codes are developed by the user and are not standardized. The fourth character represents

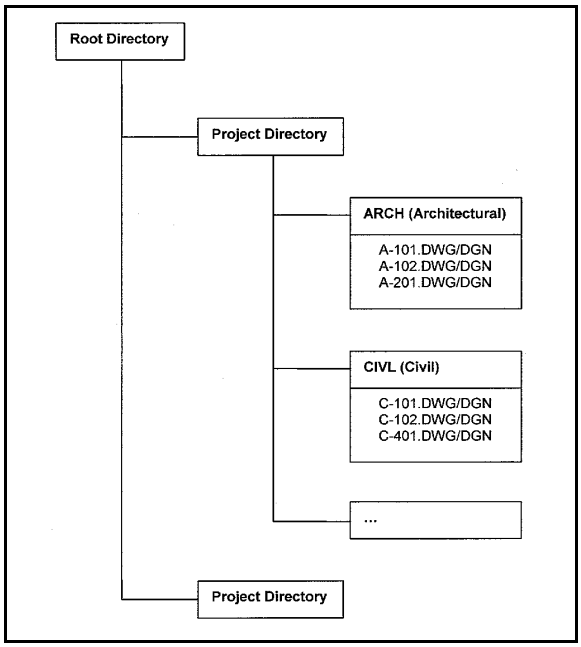

Figure 7. Typical file structure

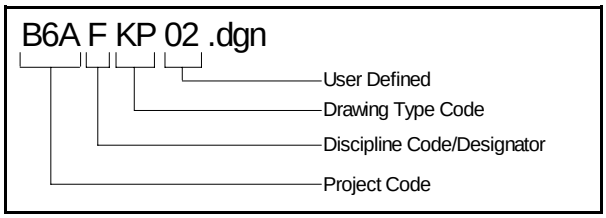

Figure 8. Tri-Service Optional model file naming convention

the *Discipline Code/Designator* (Table 6). Table 6 includes disciplines not covered by AIA or CSI, such as Utilities and Civil Works. The fifth and sixth characters designate the *Drawing Type Code* (Table 7). Table 7 includes drawing type codes not covered by AIA or CSI. The remaining two characters are user-definable.

Example 1: The name for a simple architectural demolition plan model file for project number B6A would be:

B6AADP.dwg/dgn

Table 6

Tri-Service Optional Discipline Codes/Designators

Discipline	Character
General	G[1]
Survey and Mapping	V[1]
HTRW[2]/Environmental	H[1]
Civil/Site	C[1]
Civil Works	W
Geotechnical	B[1]
Utilities	U
Landscape Architecture	L[1]
Structural	S[1]
Architectural	A[1]
Interior Design	I[1]
Equipment	Q[1]
Fire Protection/Suppression	F[1]
Plumbing	P[1]
Mechanical	M[1]
Electrical	E[1]
Telecommunications	T[1]
Resource	R[1]
Process	D[1]
Operations	O[1]
Other Disciplines	X[1]
Contractor/Shop Drawings	Z[1]

[1] AIA compliant.
[2] Hazardous, Toxic, and Radioactive Waste.

Example 2: For a building with multiple floors, the architectural demolition plan model file name for Floor 2 would be:

B6AADPF2.dwg/dgn

Table 7

Tri-Service Optional Drawing Type Codes

Discipline	Code	Definition
General (G)		
	BS	Border Sheet
	KP	Keyplan
Survey and Mapping (V)		
	3D[1]	Isometric/3D
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	SC[1]	Section
	SP	Survey and Mapping Plan
HTRW/Environmental (H)		
	3D[1]	Isometric/3D
	AB	Asbestos Sample Location
	DD	Demolition Basin Detail
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	ED	Evapotranspiration Bed Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	EV	Environmental Plan
	FD	Leachate Field Detail
	GC	Gas Collection System Detail
	GD	Ground Storage Resevoir Detail
	HP	Hydraulic Profile
	LC	Leachate Collection Detail
	LD	Lift Station Detail
	LF	Landfill Liner and Cover Detail
	LP	Lead Paint Sample Location
	OD	Oil Water Separator Detail
	PP	Pollution Prevention Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	SD	Spill Containment Detail

[1] AIA compliant

Table 7 (Continued)

Discipline	Code	Definition
HTRW/Environmental (H) (continued)		
	ST	Septic Tank Detail
	WD	Water Supply Building Detail
	WP	Water Treatment Plan
	WT	Elevated Water Tank Detail
	WW	Wastewater Treatment Plan
Civil/Site (C)		
	3D[1]	Isometric/3D
	AF	Airfield Plan
	AI	Airfield Paving Plan
	AP	Apron Striping Plan
	BL	Boring Location
	CP	Channel Plan
	CS	Cross Section
	DD	Storm Drainage Detail
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	DU	Utility Detail
	EC	Erosion Control Plan
	ED	Erosion Control Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	FD	Fence Detail
	GP[1]	Grading Plan
	IP	Installation Plan
	JD	Joint Detail
	JE	Joint Elevation Plan
	JP	Joint Layout Plan
	KP	Staking Plan
	LD	Lift Station Detail
	LP	Layout Plan
	OD	Oil Water Separator Detail
	PD	Pavement Detail
	PI	Piping Plan
	PL	Project Location Map
	PM	Pavement Marking Plan
	PV	Pavement Plan

[1] AIA compliant

Table 7 (Continued)		
Discipline	**Code**	**Definition**
Civil/Site (C) (continued)		
	QP	Equipment Plan
	RP[1]	Road Plan
	SC[1]	Section
	SM	Sanitary Manhole Detail
	SP[1]	Site Plan
	SR	Sanitary Sewer Profile
	SS	Sanitary Sewer Plan
	SV[1]	Survey Plan
	TP	Topography Plan
	TS	Transportation Site Plan
	TX	Topography Plan - Demolition
	UP[1]	Utility Plan
	WD	Water Detail
	WP	Water Line Profile
Civil Works (W)		
	3D[1]	Isometric/3D
	CP	Civil Works Plan
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged PLan
	QP[1]	Equipment Plan
	SC[1]	Section
Geotechnical (B)		
	3D[1]	Isometric/3D
	BL	Boring Location
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	LB	Boring Log
	QP[1]	Equipment Plan
	SA	Stability Access
	SC[1]	Section
	SP	Soil Profile
[1] AIA compliant		

Table 7 (Continued)		
Discipline	**Code**	**Definition**
Utilities (U)		
	3D[1]	Isometric/3D
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EC	EMCS Plan
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	EU	Electrical Utilities Plan
	FU	Fuel Utilities Plan
	GA	Gas Utilities Plan
	GE	General
	HT	HTCW Utilities Plan
	PP	Poles Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	WA	Domestic Water Plan
Landscape Architecture (L)		
	3D[1]	Isometric/3D
	AD	Arbor Detail
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	IP	Irrigation Plan
	LP	Landscape Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	TP	Turfing Plan
Structural (S)		
	3D[1]	Isometric/3D
	CP	Column Plan
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
[1] AIA compliant		

Table 7 (Continued)		
Discipline	**Code**	**Definition**
Structural (S) (continued)		
	FD	Foundation Detail
	FP	Foundation Plan
	FS	Foundation Section
	JL	Joist Girder Load Diagram
	MD	Masonry Detail
	PP	Precast Panel Layout Plan
	QP[1]	Equipment Plan
	RD	Roof Framing Detail
	RF	Roof Framing Plan
	RP	Reinforcement Plan
	RS	Roof Framing Section
	SC[1]	Section
	SF	Stair Framing Plan
	TB	Truss Bracing Plan
	TE	Truss Elevation
	WG	Wind Girt Elevation
Architectural (A)		
	3D[1]	Isometric/3D
	AC	Area Calculations
	BE	Building Elevation (Exterior)
	BS	Building Section
	CP[1]	Reflected Ceiling Plan
	CW	Casework Detail
	DD	Door Detail
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	ED	Exterior Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	FP[1]	Floor Plan
	IE	Interior Elevation
	KP	Keyplan
	LS	Life Safety Plan
	NP[1]	Finish Plan
	QP[1]	Equipment Plan
	RP	Roof Plan
	SC[1]	Section
[1] AIA compliant		

Table 7 (Continued)		
Discipline	**Code**	**Definition**
Architectural (A) (continued)		
	WD	Window Detail
	WS	Wall Section
Interior Design (I)		
	3D[1]	Isometric/3D
	AP	Artwork Placement Plan
	CP[1]	Ceiling Plan
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	NP[1]	Finish Plan
	QP[1]	Equipment Plan
	RP[1]	Furniture Plan
	SC[1]	Section
	SD	Signage Detail
	SP	Signage Placement Plan
	WP	System/Prewired Workstation Plan
	WT	System/Prewired Workstation Typical
Equipment (Q)		
	3D[1]	Isometric/3D
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	KP	Kitchen Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	SP	Security Plan
Fire Protection/Suppression (F)		
	3D[1]	Isometric/3D
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
[1] AIA compliant		

Table 7 (Continued)

Discipline	Code	Definition
Fire Protection/Suppression (F) (continued)		
	FS	Fire Suppression Plan
	KP[1]	Sprinkler Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	VP[1]	Evacuation Plan
Plumbing (P)		
	3D[1]	Isometric/3D
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	PP[1]	Plumbing Plan
	PR	Plumbing Riser Diagram
Mechanical (M)		
	3D[1]	Isometric/3D
	CD	Control Detail
	CP[1]	Control Plan
	CS	Control Schematic
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EM	EMCS Plan
	EP[1]	Enlarged Plan
	HC	HVAC Condensate Riser Diagram
	HD	HVAC Detail
	HP[1]	HVAC Ductwork Plan
	HR	HVAC Riser Diagram
	HX	HVAC Demolition Plan
	MD	Machine Design Plan
	MH	Material Handling Plan
	PP[1]	Piping Plan
	QP[1]	Equipment Plan

[1] AIA compliant

Table 7 (Concluded)

Discipline	Code	Definition
Mechanical (M) (continued)		
	SC[1]	Section
	SP	Specialty Piping Plan
Electrical (E)		
	3D[1]	Isometric/3D
	AP	Auxiliary Power Plan
	CP[1]	Communication Plan
	CR	Communication Riser
	CX	Communication Demolition Plan
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	GP[1]	Grounding Plan
	LD	Lighting Fixture Detail
	LP[1]	Lighting Plan
	LR	Lighting Protection Plan
	LX	Lighting Plan - Demolition
	PP[1]	Power Plan
	PR	Power Riser
	PX	Power Plan - Demolition
	QP[1]	Equipment Plan
	SC[1]	Section
Telecommunications (T)		
	3D[1]	Isometric/3D
	CD	Communication System Plan
	DG[1]	Diagram
	DP[1]	Demolition Plan
	DT[1]	Detail
	EL[1]	Elevation
	EP[1]	Enlarged Plan
	QP[1]	Equipment Plan
	SC[1]	Section
	TP[1]	Telephone/Data Plan

[1] AIA compliant

Tri-Service Optional sheet file naming convention

In the Tri-Service Optional sheet file naming convention (Figure 9), the first three characters of the file name are the *Project Code*. Project codes are developed by the user and are not standardized. The fourth character represents the *Discipline Code/Designator* (Table 6), and the fifth character defines the sheet type designator (Table 5). The sixth and seventh characters designate the *Sheet Sequence Number* (01-99). The remaining character is user-definable.

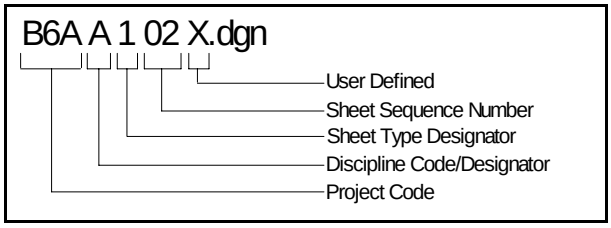

Figure 9. Tri-Service Optional sheet file naming convention

Example 1: The sheet file name for the first page of a set of mechanical HVAC plans for project number B6A would be:

B6AM101.dwg/dgn

Example 2: For a building that has multiple floors the architectural demolition plan sheet file name for Sheet 1, Floor 2, would be:

B6AA1012.dwg/dgn

Coordination Between Sheet File Name and Sheet Identifier

In assigning a sheet identifier (for use in the sheet identification block, reference bubbles, etc.), the user should coordinate with the name assigned to the electronic sheet file. The sheet identifier should consist of the discipline code/designator, sheet type designator, and the sheet sequence identifier/number (Figure 10). This sheet identifier convention is compatible with both the Industry Standard and the Tri-Service Optional sheet file naming conventions.

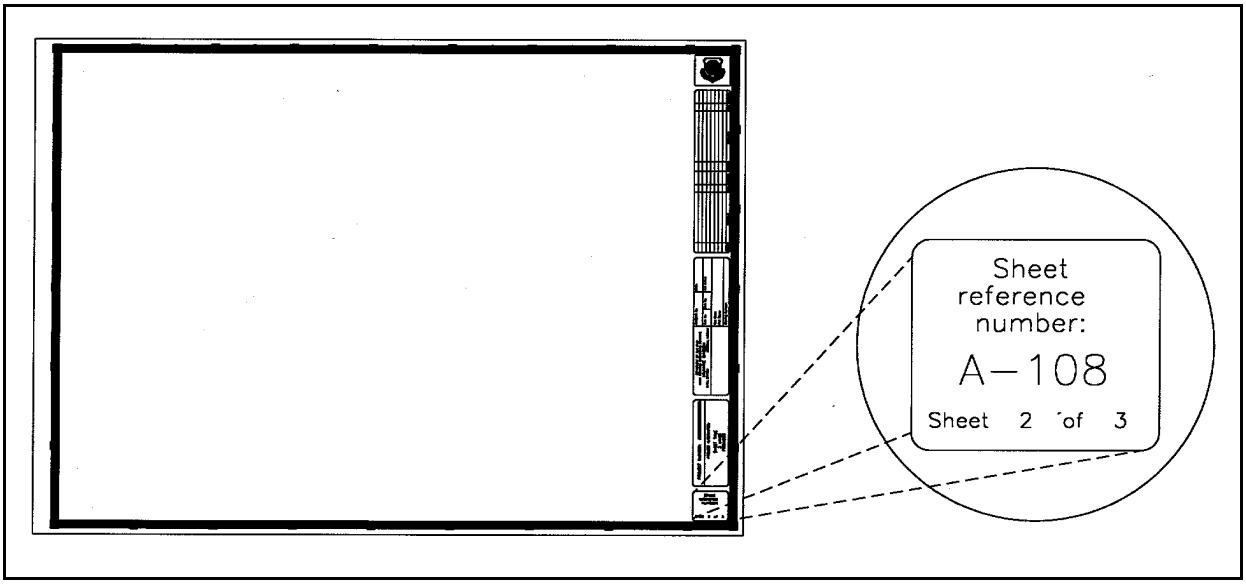

Figure 10. Typical border sheet title block with sheet identification block

3 Graphic Concepts

Presentation Graphics

The first step in establishing an effective CADD standard is the development of a uniform approach to presentation graphics. Presentation graphics typically consist of drawing elements such as lines, arcs, shapes, text, and their attributes (line color, line width, and line style). This chapter presents brief overviews of the characteristics of presentation graphics and the philosophy used to standardize them.

Line widths

Although "monotone" line work is not contractually improper, varied line widths substantially improve readability. Most commercial CADD systems provide an extensive variety of line widths. However, for the majority of A/E/C drawings, the five line widths defined in Table 8, with the optional 1.00 mm, 1.40 mm, and 2.00 mm lines, are considered sufficient and should not be expanded unless an appreciable improvement in drawing clarity or contrast can be realized. The following are typical usages for the line widths shown in Table 8:

- Fine (0.18 mm). Fine lines should be used sparingly, mostly for poche/patterning (this line thickness typically does not reproduce well in blue-line format and/or in photocopies).

- Thin (0.25 mm). Thin lines should be used for depicting dimension lines, dimension leader/witness lines, note leader lines, line terminators (arrowheads, dots, slashes), phantom lines, hidden lines, center lines, long break lines, schedule grid lines, and object lines seen at a distance.

Table 8
Comparison of Line Widths

Line Thickness	Technical Pen Designation[1]	mm	in.	MicroStation Line Weight[2]	Line Weight Example
Fine	0000	0.18	0.007	wt = 0	
Thin	000	0.25	0.010	wt = 1	
Medium	0	0.35	0.014	wt = 2	
Wide	1	0.50	0.020	wt = 3	
Extra Wide	2.5	0.70	0.028	wt = 5	
Option 1	3.5	1.00	0.040	wt = 7	
Option 2 [3]	n/a	1.40	0.055	wt = 10	
Option 3 [3]	n/a	2.00	0.079	wt = 15	

[1] Technical pen designation derived from Rapidograph and Rotring pen sizes.
[2] The weight of MicroStation lines remains constant when plotted, no matter if the design is scaled up or down.
[3] Pens not standard for ink pen plotters.

- Medium (0.35 mm). Medium lines should be used for depicting minor object lines, dimension text, text for notes/callouts, and schedule text.

- Wide (0.50 mm). Wide lines should be used for major object lines, cut lines, section cutting plane lines, and titles.

- Extra wide (0.70 mm). Extra wide lines should be used for minor title underlining, schedule outlines, large titles, and object lines requiring special emphasis. For very large scale details drawn at 3 in. = 1 ft-0 in. or larger, the extra wide width should be used for the object lines. Extra wide widths are also appropriate for use as an elevation grade line, building footprint, or top of grade lines on section/foundation details.

- Option 1 (1.00 mm). This line weight should be used for major title underlining and separating portions of drawings.

- Option 2 (1.40 mm). This line weight should be used for border sheet outlines and cover sheet line work, and as an option for the designer as required.

- Option 3 (2.00 mm). This line weight should be used for border sheet outlines and cover sheet line work and as an option for the designer as required.

Note: *AutoCAD polyline widths must be uniform throughout the extent of the line. Variable line width polylines do not translate between CADD packages.*

Line types/styles

The line types/styles selected for this standard are listed in Table 9. Only line IDs 0, 2, 7 and 11 are included in International Standards Organization (ISO) 128 (ISO 1982). The TSTC has created line style files for MicroStation and AutoCAD (called tsaec.rsc and tsaec.lin, respectively) which include the

Table 9
Standard Line Types/Styles

ID	Description	Example	MicroStation Designator	AutoCAD Designator	Dimensions[1]
0	Continuous		0	Continuous	
1	Dotted		1	ACAD_ISO07W100	0.5, -3
2	Dashed		2	ACAD_ISO02W100	12, -3
3	Dashed spaced		3	ACAD_ISO03W100	12, -18
4	Dashed dotted		4	ACAD_ISO10W100	12, -3, 0.5, -3
6	Dashed double-dotted		6	ACAD_ISO12W100	12, -3, 0.5, -3, 0.5, -3
10	Dashed triplicate-dotted		--[2]	ACAD_ISO14W100	12, -3, 0.5, -3, 0.5, -3, 0.5, -3
7	Chain		7	ACAD_ISO08W100	24, -3, 6, -3
11	Chain double-dashed		--[2]	ACAD_ISO09W100	24, -3, 6, -3, 6, -3

[1] For line type dimensions, positive numbers signify length of dashes, negative numbers signify length of spaces.
[2] This line style is not found in the default MicroStation line style resource file.

line styles in Table 9, as well as additional discipline line styles. These files are available on the Release 1.8 CD, as well as on the TSTC's Internet site at *tsc.wes.army.mil*.

Line color

The primary reason to use color in CADD drawings is to improve the clarity of the drawing on a computer monitor. However, in some CADD applications, color is also used to delineate individual layers/levels and/or define the line thicknesses of drawing elements on the final (plotted) drawing sheet.

Note: *For this standard, specific colors are assigned (standardized) to individual layers/levels, and every line color is associated with a particular line width. This procedure is normal for AutoCAD users but new to most MicroStation users.*

Note: *Future updates of* Uniform Drawing System *(CSI 1997) will address the use of color in final plotted drawings. This standard addresses only the use of color to control/define plotted line widths on black and white drawings.*

The variety of colors available in a CADD application depends on the capabilities of the computer monitor and its video card. Today, most systems are capable of displaying from 16 to 256 colors. Based on the limitations of monitor color display capabilities and differing CADD system plotting methods, this manual recommends that all A/E/C drawings be created using the basic colors presented in Table 10 whenever possible.

Note: *The recommended colors are best viewed on a monitor with a black background.*

Appendix D contains a 256-color map for the AutoCAD and MicroStation color palettes. The table maps AutoCAD's default color palette to MicroStation's default color palette. A recommended line weight is also assigned to each color. Using this table, drawings can be translated between systems with the assurance that line weights will be maintained even though the displayed color may vary. The color table is also provided for those users who require more colors than the eight recommended by this standard.

Note: *For spatial data applications such as FM and GIS, the eight-color standard is too restrictive and inadequate. Line color standards for these applications are covered in the "Tri-Service Spatial Data Standards" available from the Tri-Service CADD/GIS Technology Center (1998a).*

Table 10
Screen Color Comparison and Associated Line Widths

Color	Color Number		Line Width mm	Ratios of RGB, %		
	AutoCAD	MicroStation		Red	Green	Blue
Blue	5	1	0.18	0	0	255
Gray	8	9	0.18	128	128	128
Green	3	2	0.25	0	255	0
Red	1	3	0.25	255	0	0
Yellow	2	4	0.35	255	255	0
Magenta	6	5	0.35	255	0	255
Cyan	4	7	0.50	0	255	255
White	7	0	0.70	255	255	255

Note: Color numbers for AutoCAD and MicroStation were taken from default color tables.

Screening (halftoning)

Screened images are created through a process called halftoning in which the density and pattern of black and white dots are varied to simulate different shades of gray. Varying the intensity of gray scales allows users to distinguish different aspects of a drawing when it is plotted. For example, an area on a site designated for demolition can be assigned a color that has been assigned a screening percentage. When plotted, the area will be shown at a lighter shade compared with other elements in the drawing. This will allow the contractor to immediately identify the demolition area on the drawing.

Table 11 lists colors recommended to be used for screening along with a recommended screen-ing percentage. Using Table 11, MicroStation users can edit a plotter driver, using a text editor, to assign a screening percentage to the specific colors (see the MicroStation user's manuals for information on working with plotter/printer drivers).

AutoCAD users must specify requirements for halftones according to the output device used. Due to the number of output devices AutoCAD supports, users should consult the help documentation provided within AutoCAD for information on assigning recommended screening percentages.

Text styles/fonts

Contrasting text styles (or fonts) are used within a drawing to delineate types of information. In most A/E/C drawings, the five fonts shown in Table 12 should be sufficient.

- Monotext font. This font creates text characters that are evenly spaced. Monotext font should be used where text fields need to be aligned such as in schedules or, in some cases, title blocks. In AutoCAD, use the monotxt font and in MicroStation use Font #3.

- Proportional font. This font creates text where the characters are proportionally spaced. It is appropriate for general notes, labels, or title blocks. In AutoCAD, use the romans (Roman Simplex) font with a width factor of 0.8. In MicroStation use Font #1.

- Slanted font. A slanted font is used where text needs to be easily distinguished from other text. This font can be created in AutoCAD by using the romans font with the Obliquing Angle set to 21.8 deg to achieve the American Standard slope of 2 in 5 (68.2 deg). In MicroStation use Font #23.

- Filled font. Filled fonts are used primarily for titles and on cover sheets. For AutoCAD, the recommended font is the swiss TrueType font (Note: The TEXTFILL system variable needs to be set to "1"). MicroStation users should use Font #43 (the Microsoft arialbd.ttf font file can be used as an alternate text style for the filled font).

- Outline font. When a pen plotter is used for final output, the outline font is used as a substitute for filled fonts for major titles such as cover sheet information to save plotting time. For AutoCAD, the recommended font is the sasb (Sans Serif-bold) PostScript font. For MicroStation, use Font #42.

Plotting

Printers and plotters are controlled by files called pen tables or feature tables. These files (tables) convert thicknesses and/or color in an electronic file to line thicknesses on a paper drawing.

This manual standardizes presentation graphics as they relate to electronic drawing files (screen display) and not the final printed or plotted paper drawing. By employing pen tables, each agency can ensure that consistent drawings are produced from an electronic file regardless of the type of printer or plotter used. It is the responsibility of each field activity to develop

Table 11
Halftone Colors

AutoCAD				MicroStation			Gray Scale Ratios (RGB), percent		
Color No.	Pen Plotter mm	Laser/Elec InkJet, in.	Screen percent	Color No.	Line Weight	Screen percent	Red	Green	Blue
10	0.18	0.007	10	10	0	10	230	230	230
11	0.25	0.010	10	19	1	10	230	230	230
12	0.35	0.014	10	27	2	10	230	230	230
13	0.50	0.020	10	35	3	10	230	230	230
14	0.70	0.028	10	43	5	10	230	230	230
15	1.00	0.039	10	51	7	10	230	230	230
16	1.40	0.055	10	59	10	10	230	230	230
19	2.00	0.079	10	83	15	10	230	230	230
50	0.18	0.007	20	20	0	20	204	204	204
51	0.25	0.010	20	28	1	20	204	204	204
52	0.35	0.014	20	36	2	20	204	204	204
53	0.50	0.020	20	44	3	20	204	204	204
54	0.70	0.028	20	52	5	20	204	204	204
55	1.00	0.039	20	60	7	20	204	204	204
56	1.40	0.055	20	68	10	20	204	204	204
59	2.00	0.079	20	92	15	20	204	204	204
90	0.18	0.007	30	82	0	30	179	179	179
91	0.25	0.010	30	106	1	30	179	179	179
92	0.35	0.014	30	92	2	30	179	179	179
93	0.50	0.020	30	122	3	30	179	179	179
94	0.70	0.028	30	114	5	30	179	179	179
95	1.00	0.039	30	138	7	30	179	179	179
96	1.40	0.055	30	130	10	30	179	179	179
99	2.00	0.079	30	170	15	30	179	179	179
130	0.18	0.007	40	87	0	40	153	153	153
131	0.25	0.010	40	95	1	40	153	153	153
132	0.35	0.014	40	103	2	40	153	153	153
133	0.50	0.020	40	111	3	40	153	153	153
134	0.70	0.028	40	119	5	40	153	153	153
135	1.00	0.039	40	127	7	40	153	153	153
136	1.40	0.055	40	135	10	40	153	153	153
139	2.00	0.079	40	159	15	40	153	153	153
170	0.18	0.007	50	97	0	50	128	128	128
171	0.25	0.010	50	105	1	50	128	128	128
172	0.35	0.014	50	113	2	50	128	128	128
173	0.50	0.020	50	121	3	50	128	128	128
174	0.70	0.028	50	129	5	50	128	128	128
175	1.00	0.039	50	137	7	50	128	128	128
176	1.40	0.055	50	145	10	50	128	128	128
179	2.00	0.079	50	169	15	50	128	128	128
210	0.18	0.007	50	85	0	50	128	128	128
211	0.25	0.010	50	109	1	50	128	128	128
212	0.35	0.014	50	101	2	50	128	128	128
213	0.50	0.020	50	125	3	50	128	128	128
214	0.70	0.028	50	117	5	50	128	128	128
215	1.00	0.039	50	141	7	50	128	128	128
216	1.40	0.055	50	133	10	50	128	128	128
219	2.00	0.079	50	173	15	50	128	128	128
250	0.25	0.010	50	8	1	50	128	128	128
251	0.35	0.014	50	200	2	50	128	128	128
252	0.50	0.020	50	168	3	50	128	128	128
253	0.70	0.028	50	120	5	50	128	128	128
254	1.00	0.039	50	56	7	50	128	128	128
255	2.00	0.079	50	24	15	50	128	128	128

Table 12
Comparison of Font Types

MicroStation	AutoCAD
Monotext font **(Font #3)** ABCDEFGHIJKLMNOPQRST UVWXYZ abcdefghijklmnopqrst uvwxyz	**Monotext font** **(monotxt)** ABCDEFGHIJKLMNOPQRST UVWXYZ abcdefghijklmnopqrst uvwxyz
Proportional font **(Font #1)** ABCDEFGHIJKLMNOPQRST UVWXYZ abcdefghijklmnopqrst uvwxyz	**Proportional font** **(romans)** ABCDEFGHIJKLMNOPQRST UVWXYZ abcdefghijklmnopqrst uvwxyz
Slanted font **(Font #23)** *ABCDEFGHIJKLMNOPQRST* *UVWXYZ* *abcdefghijklmnopqrst* *uvwxyz*	**Slanted font** **(romans, obliquing angle = 21.8)** *ABCDEFGHIJKLMNOPQRST* *UVWXYZ* *abcdefghijklmnopqrst* *uvwxyz*
Filled font **(Font #43)** **ABCDEFGHIJKLMNOPQRST** **UVWXYZ** **abcdefghijklmnopqrst** **uvwxyz**	**Filled font** **(swiss)** **ABCDEFGHIJKLMNOPQRST** **UVWXYZ** **abcdefghijklmnopqrst** **uvwxyz**
Outline font **(Font #42)** ABCDEFGHIJKLMNOPQRST UVWXZY abcdefghijklmnopqrst uvwxyz	**Outline font** **(sasb)** ABCDEFGHIJKLMNOPQRST UVWXZY abcdefghijklmnopqrst uvwxyz

pen tables based on the printer/plotter used at that activity.

Border Sheets

Sheet sizes

Typical A/E/C projects (contract documents) will be prepared on A1 sheets in accordance with the ISO sheet size shown in Table 13, which also shows American National Standards Institute (ANSI) equivalents (American Society of Mechanical Engineers (ASME) Y14.1 (1995)).

The ISO A0 sheet is recommended for large maps (i.e., installation master plans and drawings for civil works projects).

Note: *Those users plotting A1 size drawings on ANSI D-size paper should reduce the width of the A1 border from 594 mm (23.39 in.) to 559 mm (22.0 in.). The length can remain the same. This revised border will fit on an ANSI D-size sheet (22 by 34 in.) and can be reproduced on standard office photocopiers.*

Title block

The TSTC recommends the use of a vertical title block placed in the right-hand margin of the border sheet as shown in Figure 11. Use of the vertical title block provides the most usable drawing space on a sheet. The vertical title block also ensures that the most prevalent and pertinent information remains at the bottom right of the sheet. In compliance with the *Uniform Drawing System* (CSI 1997), title block data will include the following:

- Designer identification block
- Issue block
- Management block
- Project identification block/sheet title block
- Sheet identification block

Note: *Local standards may modify the content of the title block but should not alter its size or configuration if possible. See the* Uniform Drawing System *for additional recommendations.*

Note: *An A1 size border sheet has been developed by the TSTC which allows for the use of professional seals in the designer identification block. This border sheet is available on the Release 1.8 CD (called A1_MOD.dwg/dgn) as well as on the TSTC's Internet site at tsc.wes.army.mil.*

Designer identification block. The designer identification block (Figure 12) contains the logo or name of the agency that designed the sheet. This space could also be expanded (by reducing the size of the issue block) to accommodate professional seals when required.

Table 13
ISO, ANSI, and Architectural Sheet Size Comparison

	Width		Length		ANSI Equivalent		Architectural Equivalent	
ISO Designation	mm	in.	mm	in.	Letter	in.	Letter	in.
NA	NA	NA	NA	NA	F	28.0 x 40.0	F	30.0 x 42.0
A0	841	33.11	1189	46.81	E	34.0 x 44.0	E	36.0 x 48.0
A1	594	23.39	841	33.11	D	22.0 x 34.0	D	24.0 x 36.0
A2	420	16.54	594	23.39	C	17.0 x 22.0	C	18.0 x 24.0
A3	297	11.69	420	16.54	B	11.0 x 17.0	B	12.0 x 18.0
A4	210	8.27	297	11.69	A	8.5 x 11.0	A	9.0 x 12.0

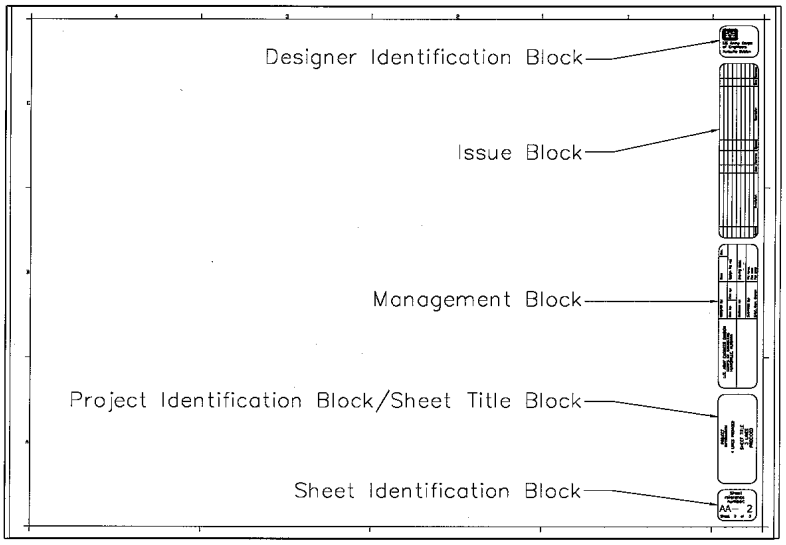

Figure 11. Sample metric drawing sheet with vertical title block

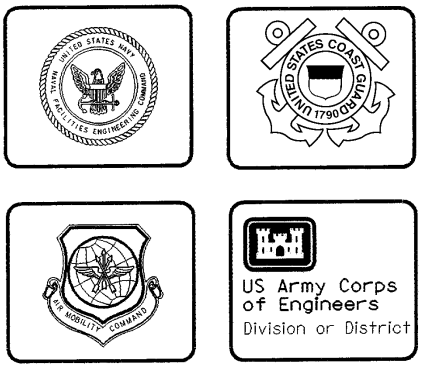

Figure 12. Designer identification block (typ.)

Issue block. The issue block (Figure 13) contains a history of revisions, addenda, and/or clarifications to the sheet. The first entry should be placed on the lower left-hand line of the issue block and subsequent entries should be made above it.

Management block. The management block (Figure 14) contains information about the designer, reviewer, and submitter. This block can also be used to maintain filing information about the drawing, such as the file name, plot scale, and drawing code (this information is sometimes plotted outside the drawing sheet cut line). If an A/E has developed the drawings, there is room for information about the firm in the lower left portion of the block.

Project identification block/sheet title block. The project identification block/sheet title block (Figure 15) contains two sets of information. First, the project name is identified, possibly with the location or phase of the project identified. If small enough, a project logo can be presented in this block. The second set of information contains a description of the content of the sheet (e.g., Architectural Floor Plan). If more than one type of information is presented on the sheet (i.e., plans, schedules, details, etc.), the most important information is identified.

Sheet identification block. The sheet identification block (Figure 16) contains the sheet identifier. This sheet identifier is composed of the discipline code/designator, the sheet type designator, and the sheet sequence number described in the section, “Electronic Drawing File Naming Conventions” (Chapter 2). The “number of sheets” listing is optional and can contain either the total number of sheets for the entire project drawing set or the number of sheets for that particular discipline code/designator.

Drawing Scales

Typical drawing scales for both SI and inch-pound measurements are indicated in Table 14.

The A/E/C CADD Standards recommend text heights for these scales in accordance with Leroy lettering sizes. Table 15 lists recommended text sizes using inch-pound scales. Table 16 lists recommended text sizes using metric scales.

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.

Figure 13. Issue block (typ.)

U.S. ARMY ENGINEER DIVISION CORPS OF ENGINEERS HUNTSVILLE, ALABAMA	Designed by:	Date:	Rev:
	Dwn by: / Ckd by:	Design file no.	
	Reviewed by:	Drawing code:	
	Submitted by:	File name: Plot date: Dwg scale:	

Figure 14. Management block (typ.)

PROJECT
INFORMATION

4 LINES PROVIDED

SHEET TITLE
3 LINES
PROVIDED

Figure 15. Project identification block/sheet title block

Sheet
Reference
Number:

X-000

Sheet 0 of 0

Figure 16. Sheet identification block

Table 14
Drawing Scales

Drawing Type	Metric	Inch-Pound
Site plans	1:200	1" = 20' - 0"
	1:400	1" = 30' - 0"
	1:500	1" = 40' - 0"
	1:600	1" = 50' - 0"
	1:700	1" = 60' - 0"
	1:1000	1" = 100' - 0"
	1:2000	1" = 200' - 0"
	1:5000	1" = 400' - 0"
	1:6000	1" = 500' - 0"
	1:10000	1" = 1000' - 0"
	1:20000	1" = 2000' - 0"
Floor plans	1:50	1/4" = 1' - 0"
	1:100	1/8" = 1' - 0"
	1:200	1/16" = 1' - 0"
Roof plan	1:200	1/16" = 1' - 0"
Exterior elevations	1:100	1/8" = 1' - 0"
	1:200	1/16" = 1' - 0"
Interior elevations	1:50	1/4" = 1' - 0"
	1:100	1/8" = 1' - 0"
Cross sections	1:50	1/4" = 1' - 0"
	1:100	1/8" = 1' - 0"
	1:200	1/16" = 1' - 0"
Wall sections	1:20	1/2" or 3/4" = 1' - 0"
Stair details	1:10	1" or 1-1/2" = 1' - 0"
Details	1:5	3" = 1' - 0"
	1:10	1" or 1-1/2" = 1' - 0"

Table 15
Inch-pound Text Sizes

Leroy Lettering Sizes		60	80	100	120	140	175	200	240	290	350	425	500	1000
Decimal Inch Equivalents		0.060	0.080	0.100	0.120	0.140	0.175	0.200	0.240	0.290	0.350	0.425	0.500	1.000
		Text Sizes In Feet And Inches												
Drawing Scale =	1" = 2000'-0"	120:0	160:0	200:0	240:0	280:0	350:0	400:0	480:0	580:0	700:0	850:0	1000:0	2000:0
Drawing Scale =	1" = 1000'-0"	60:0	80:0	100:0	120:0	140:0	175:0	200:0	240:0	290:0	350:0	425:0	500:0	1000:0
Drawing Scale =	1" = 500'-0"	30:0	40:0	50:0	60:0	70:0	87:6	100:0	120:0	145:0	175:0	212:6	250:0	500:0
Drawing Scale =	1" = 400'-0"	24:0	32:0	40:0	48:0	56:0	70:0	80:0	96:0	116:0	140:0	170:0	200:0	400:0
Drawing Scale =	1" = 200'-0"	12:0	16:0	20:0	24:0	28:0	35:0	40:0	48:0	58:0	70:0	85:0	100:0	200:0
Drawing Scale =	1" = 100'-0"	6:0	8:0	10:0	12:0	14:0	17:6	20:0	24:0	29:0	35:0	42:6	50:0	100:0
Drawing Scale =	1" = 60'-0"	3:7	4:10	6:0	7:2	8:5	10:6	12:0	14:5	17:5	21:0	25:6	30:0	60:0
Drawing Scale =	1" = 50'-0"	3:0	4:0	5:0	6:0	7:0	8:9	10:0	12:0	14:6	17:6	21:3	25:0	50:0
Drawing Scale =	1" = 40'-0"	2:5	3:2	4:0	5:0	5:8	7:0	8:0	9:8	11:8	14:0	17:0	20:0	40:0
Drawing Scale =	1" = 30'-0"	1:10	2:5	3:0	3:7	4:2	5:3	6:0	7:2	8:8	10:6	12:9	15:0	30:0
Drawing Scale =	1" = 20'-0"	1:2	1:7	2:0	2:5	2:10	3:6	4:0	4:10	5:10	7:0	8:6	10:0	20:0
Drawing Scale =	3" = 1'-0"	:0.2	:0.3	:0.4	:0.5	:0.6	:0.7	:0.8	:1	:1.2	:1.4	:1.7	:2	:4
Drawing Scale =	1-1/2" = 1'-0"	:0.5	:0.6	:0.8	:1	:1.1	:1.4	:1.6	:2	:2.3	:2.8	:3.4	:4	:8
Drawing Scale =	1" = 1'-0"	:0.7	:1	:1.2	:1.5	:1.7	:2.1	:2.4	:2.8	:3.5	:4.2	:5	:6	1:0
Drawing Scale =	3/4" = 1'-0"	:1	:1.3	:1.6	:2	:2.2	:2.8	:3.2	:3.8	:4.6	:5.6	:7	:8	1:4
Drawing Scale =	1/2" = 1'-0"	:1.5	:2	:2.4	:3	:3.4	:4.2	:4.8	:5.8	:7	:8.4	:10	1:0	2:0
Drawing Scale =	3/8" = 1'-0"	:2	:2.5	:3	:4	:4.5	:5.6	:6.4	:7.7	:9.3	:11	1:1	1:4	2:8
Drawing Scale =	1/4" = 1'-0"	:3	:4	:5	:6	:7	:8.4	:9.6	1:0	1:2	1:5	1:8	2:0	4:0
Drawing Scale =	1/8" = 1'-0"	:6	:8	:10	1:0	1:1	1:5	1:7	1:11	2:4	2:10	3:5	4:0	8:0
Drawing Scale =	3/32" = 1'-0"	:8	:10	1:0	1:3	1:6	1:10	2:1	2:6	3:1	3:8	4:6	5:4	10:8
Drawing Scale =	1/16" = 1'-0"	1:0	1:3	1:7	2:0	2:3	2:10	3:2	3:10	4:8	5:7	6:10	8:0	16:0
Drawing Scale =	1/32" = 1'-0"	2:0	2:6	3:2	3:10	4:6	5:7	6:5	7:8	9:4	11:2	13:7	16:0	32:0
Drawing Scale =	FULL	:0.060	:0.080	:0.100	:0.120	:0.140	:0.175	:0.200	:0.240	:0.290	:0.350	:0.425	:0.500	1:000

Table 16
Metric Text Sizes

Leroy Lettering Sizes		60	80	100	120	140	175	200	240	290	350	425	500	1000
Millimeter Approximates		1.5	2	2.5	3	3.5	4.5	5	6	7.5	9	11	12	25
		Text Sizes In Millimeters												
Drawing Scale =	1:20000	30000	40000	50000	60000	70000	90000	100000	120000	150000	180000	220000	240000	500000
Drawing Scale =	1:10000	15000	20000	25000	30000	35000	45000	50000	60000	75000	90000	110000	120000	250000
Drawing Scale =	1:6000	9000	12000	15000	18000	21000	27000	30000	36000	45000	54000	66000	72000	150000
Drawing Scale =	1:5000	7500	10000	12500	15000	17500	22500	25000	30000	37500	45000	55000	60000	125000
Drawing Scale =	1:2000	3000	4000	5000	6000	7000	9000	10000	12000	15000	18000	22000	24000	50000
Drawing Scale =	1:1000	1500	2000	2500	3000	3500	4500	5000	6000	7500	9000	11000	12000	25000
Drawing Scale =	1:700	1050	1400	1750	2100	2450	3150	3500	4200	5250	6300	7700	8400	17500
Drawing Scale =	1:600	900	1200	1500	1800	2100	2700	3000	3600	4500	5400	6600	7200	15000
Drawing Scale =	1:500	750	1000	1250	1500	1750	2250	2500	3000	3750	4500	5500	6000	12500
Drawing Scale =	1:400	600	800	1000	1200	1400	1800	2000	2400	3000	3600	4400	4800	10000
Drawing Scale =	1:200	300	400	500	600	700	900	1000	1200	1500	1800	2200	2400	5000
Drawing Scale =	1:100	150	200	250	300	350	450	500	600	750	900	1100	1200	2500
Drawing Scale =	1:50	75	100	125	150	175	225	250	300	375	450	550	600	1250
Drawing Scale =	1:20	30	40	50	60	70	90	100	120	150	180	220	240	500
Drawing Scale =	1:10	15	20	25	30	35	45	50	60	75	90	110	120	250
Drawing Scale =	1:5	7.5	10	12.5	15	17.5	22.5	25	30	37.5	45	55	60	125
Drawing Scale =	1:2.5	3.75	5	6.25	7.5	8.75	11.25	12.5	15	18.75	22.5	27.5	30	62.5
Drawing Scale =	FULL	1.5	2	2.5	3	3.5	4.5	5	6	7.5	9	11	12	25

Dimensioning in Metric (SI)

Methodologies for dimensioning metric (SI) drawings are based upon the recommendations of the Construction Metrication Council of the National Institute of Building Sciences (NIBS), Washington, DC. These recommendations comply with the American Society for Testing and Materials (ASTM) E 621-94, "Standard Practice for the Use of Metric (SI) Units in Building Design and Construction" (ASTM 1995).

Millimeters

The preferred unit of measure for most A/E/C work is millimeters. Unit notations are unnecessary and should not be used. The dimension is provided as a whole number as shown in Figure 17. Also, a note should be added to the drawing stating, “All dimensions and/or dimensions shown in callouts/notes are in millimeters unless otherwise noted."

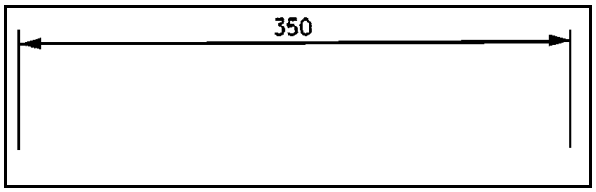

Figure 17. Dimension in millimeters. Always shown as a whole number

When meter measurements are included on the same sheet, the meter dimension is provided as a real number taken to three places past the decimal point (Figure 18). Again, unit notations are unnecessary.

Note: *In circumstances where very small dimensions are used (e.g., machine details), it is permissible to use real numbers for millimeter dimensions. A note should be placed on the detail regarding this fact.*

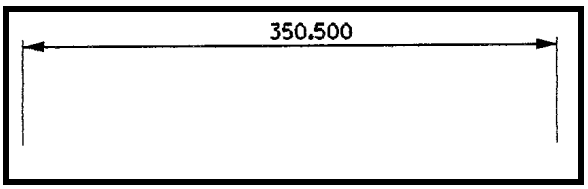

Figure 18. Dimension in meters. Always shown as a real number (with decimal)

Meters

For site plans or other drawings drawn to scales over 1:200, the unit of measure is typically meters. Where greater accuracy is required, show dimensions to three decimal places (Figure 18). A note should be added to the drawing stating, "All dimensions and/or dimensions shown in callouts/notes are in meters unless otherwise noted."

Large units of measure

Commas shall not be used when providing large units of measure; instead, a space replaces the traditional comma in numbers containing five or more digits (e.g., the number 45,000 is displayed as 45 000). In numbers containing four digits, no space is used (e.g., 5000). Both methods are shown in Figure 19.

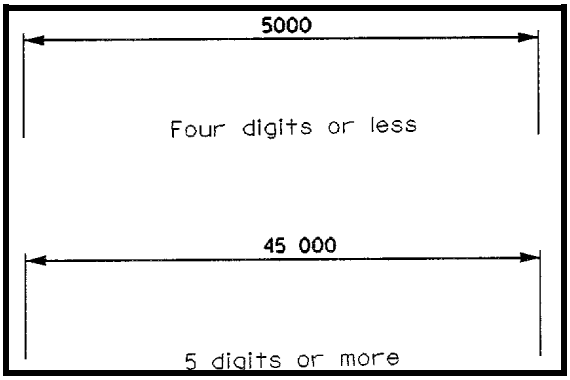

Figure 19. Proper dimension presentations for metric measurements with four or more digits

The default dimension setting for *Unit Format* in MicroStation's Default Workspace needs to be set as shown in Figure 20**.** The unit separation toggle switch needs to be turned off for dimensions less than 10000 mm; otherwise, four-digit numbers will display using the space as a unit separator (Figure 19).

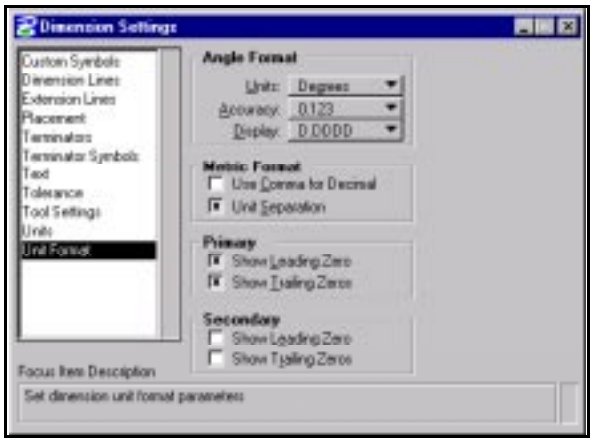

Figure 20. Unit format

Note: *The automatic dimensioning features of AutoCAD do not allow users to replace commas with spaces in dimension text. The dimension text will presently have to be edited to provide the spacing required by ASTM E 621-94 (ASTM 1995).*

Dual units

To avoid confusion, dual units (both inch-pound and metric) should not be used. As stated in Construction Metrication Council (1998), use of dual units "increases dimensioning time, doubles the chance for errors, makes drawings more confusing, and only postpones the (metric) learning process."

Exceptions to this include certain "standard building designs" where dual dimensions ensure that the design can be used in either SI or inch-pound projects and in situations where products/components used in an SI project are available only as inch-pound products.

4 Level/Layer Assignments

Levels/Layers

CADD levels or layers are analogous to overlays in manual drafting systems and serve to separate graphic elements (lines, shapes, and text) according to the design discipline they represent (Figure 21).

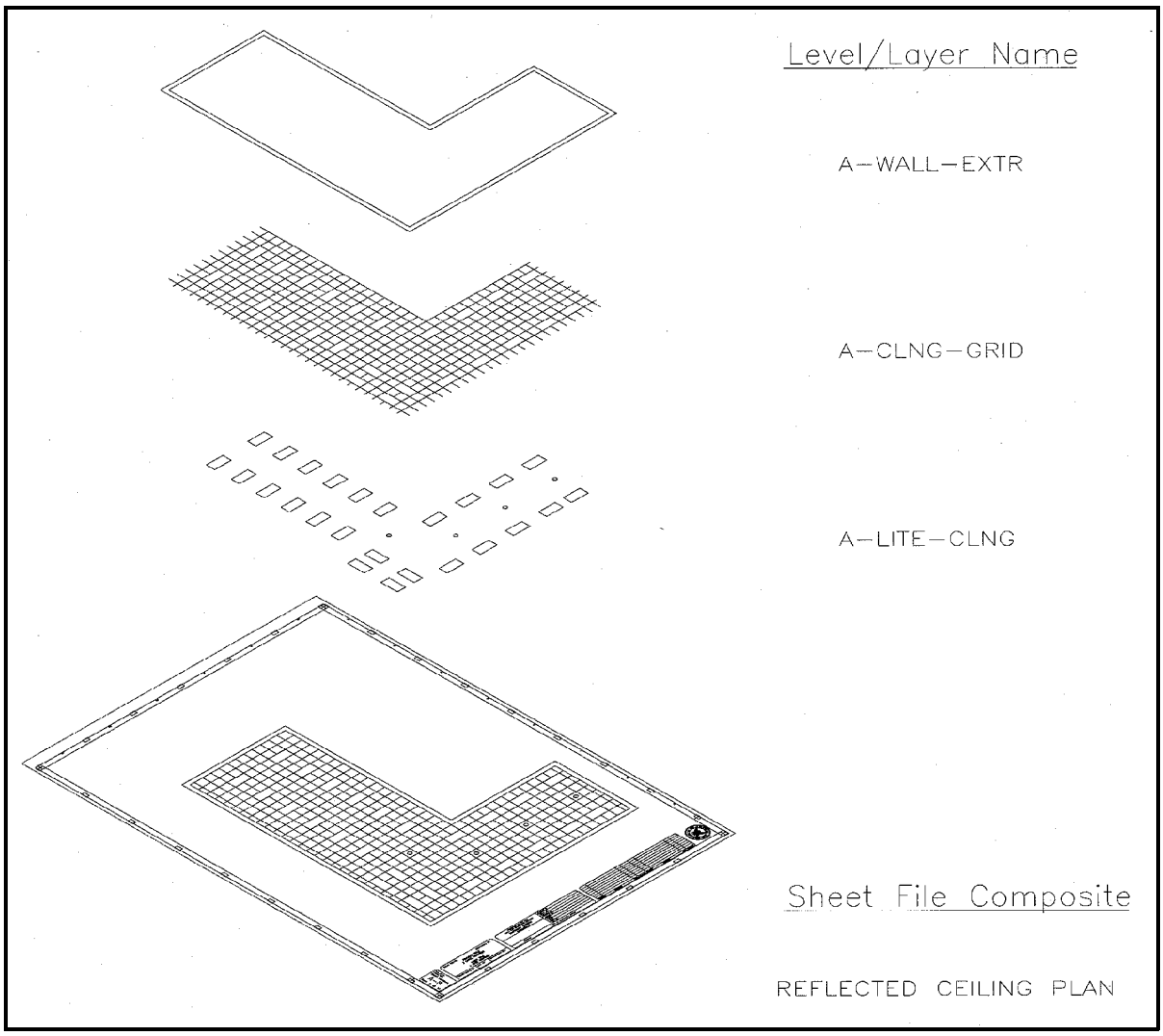

Figure 21. Typical levels/layers contained in a sheet file

The types of information represented by individual levels/layers can be grouped into two primary types: model-specific information and sheet-specific information (Figure 22).

- Model-specific information represents the physical form of a site, a building, or objects composing a building. This information is often shared between drawings. Examples include walls, doors, light fixtures, and room numbers. Model-specific information may be either literal (e.g., walls) or symbolic (e.g., electrical outlets).

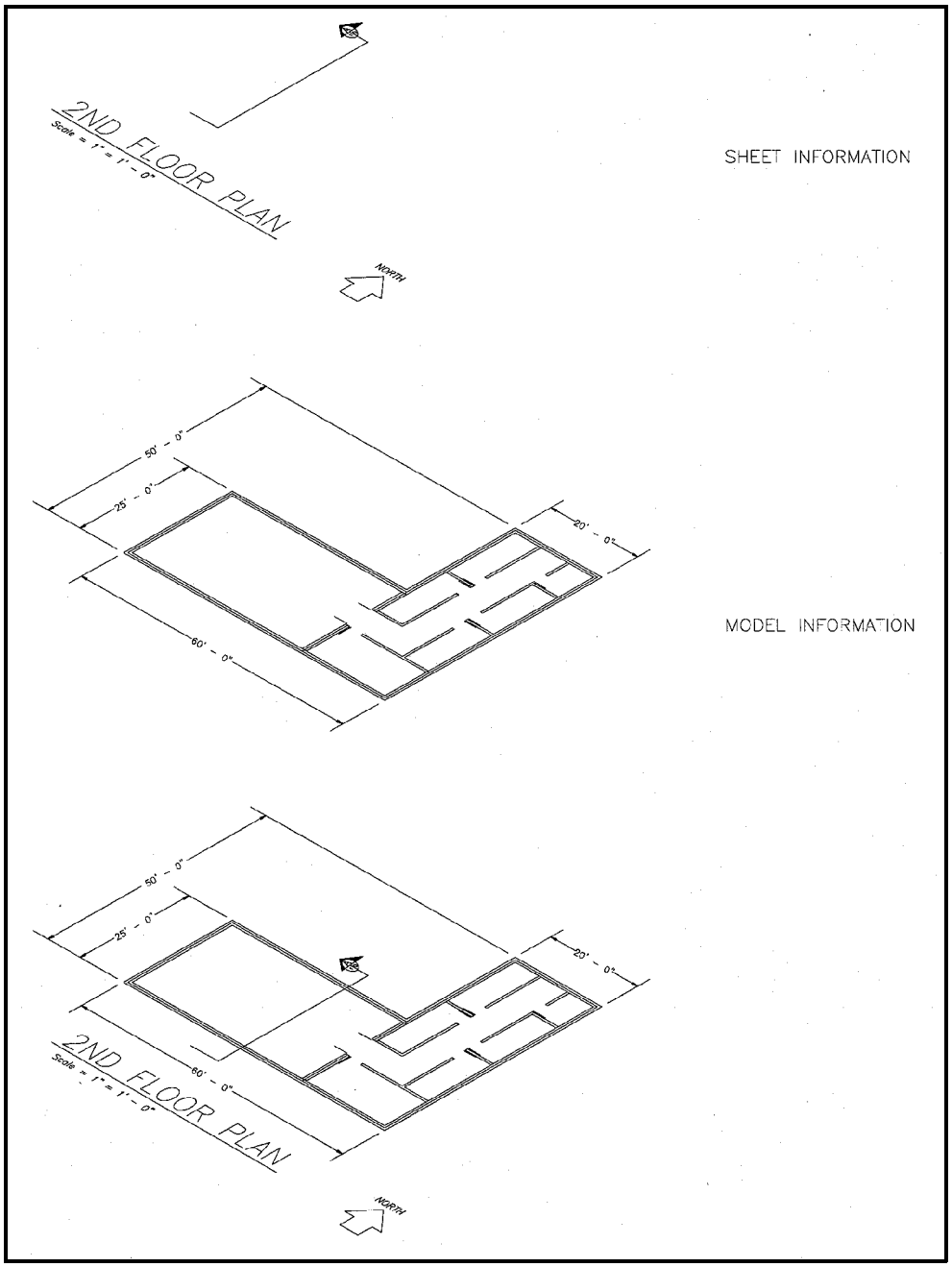

Figure 22. Sheet- and model-specific information

- Sheet-specific information may include notes, annotative symbols, and titles. This type of information is usually not shared between drawings.

Note: *Dimensions may occur on the model file or the sheet file. In small projects the dimensions are typically on the model file. In large projects, the dimensions should occur on the sheet file.*

To use and manipulate model-specific and sheet-specific information effectively, every level/layer must be defined (standardized) by its name and its use.

Level/layer naming conventions

The reuse, not duplication, of graphic information reduces drawing time and improves project coordination. The level/layer is the basic tool used in CADD for managing graphic information. The levels/layers defined within these standards are based on the recommendations set forth in "CAD Layer Guidelines" (AIA 1997).

This manual offers two methodologies for level/layer naming: the Simplified Method and the Preferred Method (Figure 23). Because it can be used on large or small projects, the Preferred Method is recommended. Both methods consist of a two-character *Discipline Code* (e.g., "A-" for Architectural, "M-" for Mechanical, "QY" for Equipment - Security, etc.), followed by a four-character *Major Group* (e.g., "DOOR" for Doors, "LITE" for Lighting Fixtures, etc.). The Preferred Method adds an additional four-character *Minor Group* to further differentiate items within the Major Group (e.g., A-WALL-EXTR for exterior walls versus A-WALL-INTR for interior walls).

For very small projects where few levels/layers are required, the optional Simplified Method (where level/layer naming stops at the Major Group) may be used.

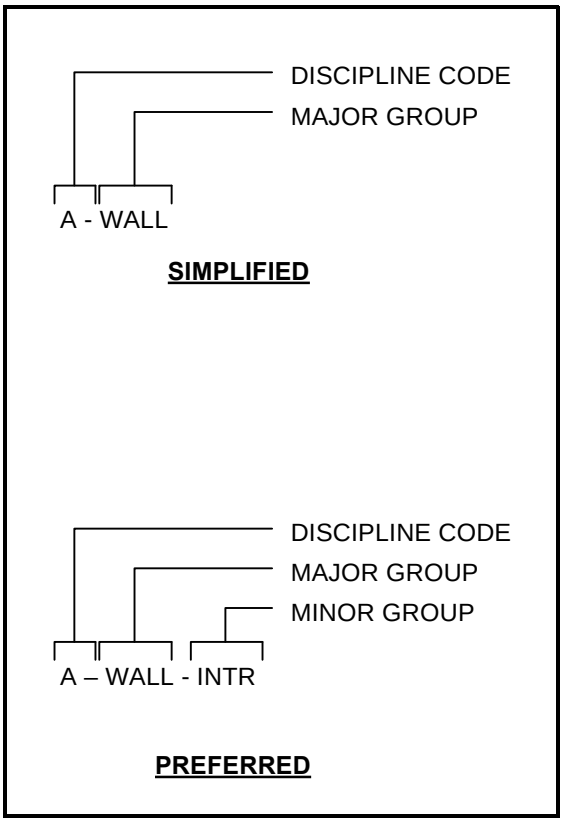

Figure 23. Level/layer naming format methods

Note: *Preferred level/layer names are presented in Appendix A. Simplified level/layer names are presented in Appendix C.*

ISO format

ISO 13567-2 (1SO 1998) presents an international method for level/layer naming (Figure 24). This method consists of 10 mandatory alphanumeric characters, followed by 10 optional alphanumeric characters. The first two-character field, *Agent Responsible*, correlates to the AIA's Discipline Code. The following six-character field, *Element*, can map to a shortened version of the AIA's Major and Minor Groups (e.g., WALL-FULL becomes WALLFU, WALL-EXTR becomes WALLEX, etc.). The final two-character field in the man-datory level/layer name, *Presentation*, designates whether the level/layer information is Model information (i.e., model-specific information) or

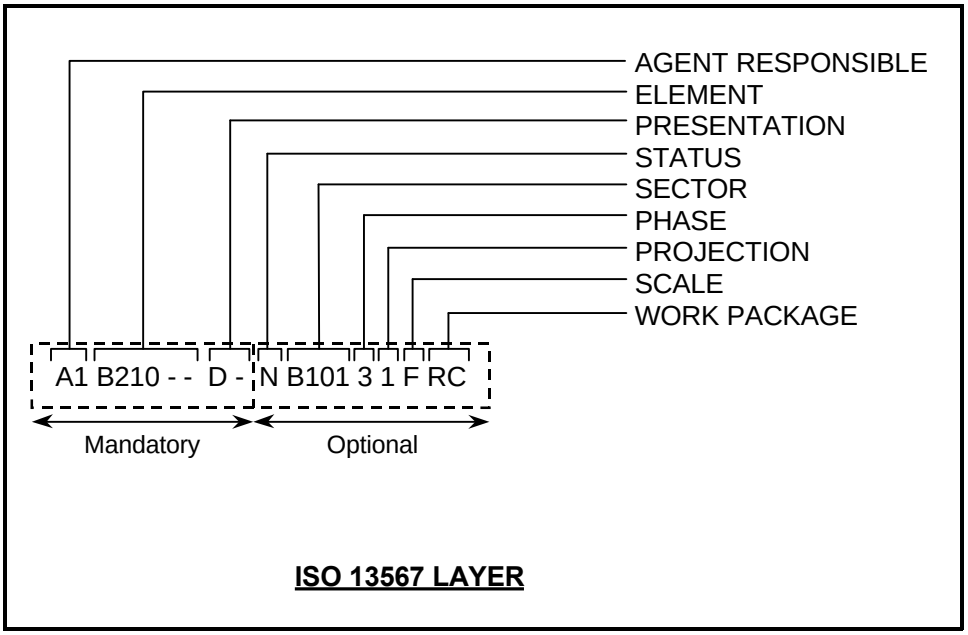

Figure 24. ISO 13567-2 level/layer naming method

Page/Paper information (i.e., sheet-specific information). Both Appendices A and C give a corresponding ISO Format level/layer name for both the Simplified and Preferred AIA Format level/layer names.

Model Files

As mentioned in Chapter 2, model files represent full-size drawings of building elements, systems, or information (e.g., the mechanical HVAC system, the architectural floor plan, details, sections, etc.) and sheet files represent final plotted sheets. Model files are used as components in creating plotted sheet files. The information contained within a model file for a discipline may be referenced by other disciplines to create the particular model files or sheet files for that discipline.

A model file can be considered a "work in progress." For instance, a mechanical engineer may reference the architect's floor plan model file to begin development of the HVAC ductwork layout model file. Meanwhile, the architect can continue developing the floor plan to meet new requirements. Any changes to the floor plan would be immediately accessible to the mechanical engineer. The viewing of real-time updates eliminates a great deal of frustration for other disciplines because it allows for on-the-spot rather than after-the-fact modifications.

Level/layer assignment tables

The level/layer assignment tables in Appendix A present the following (Figure 25 presents an excerpt):

- The levels/layers assigned to each model file.
- The level number assigned to each level/layer name (MicroStation users only).
- An AIA and corresponding ISO format level/layer name for each level/layer.
- A detailed description for each level/layer.
- The presentation graphics associated with each level/layer. This includes the line style, line width, and color.

Discipline: Architectural
Model File Type: Floor Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, crosshatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leader lines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Floor Information							
11	A-FLOR-FIXT	A-FLORFIM-	Floor-mounted/Free-standing miscellaneous fixtures (not including toilet fixtures)	0	0.25	G/3	G/2
12	A-FLOR-IDEN	A-FLORIDM-	Room name, space identification text	0	0.50	C/4	C/7
13	A-FLOR-LEVL	A-FLORLEM-	Level changes, shafts, ramps, pits, breaks in construction, and depressions	0	0.35	M/6	M/5
14	A-FLOR-NUMB	A-FLORNUM-	Room/space identification number and symbol	0	0.50	C/4	C/7
15	A-FLOR-OTLN	A-FLOROTM-	Floor outline/perimeter/building footprint	0	0.35	M/6	M/5
16	A-FLOR-PATT	A-FLORPAM-	Material patterns (e.g., paving, tile, carpet)	0	0.18	Gr/8	Gr/9
17	A-FLOR-RAIS	A-FLORRAM-	Access (raised) flooring	0	0.25	G/3	G/2
18	A-FLOR-RPRM	A-FLORRPM-	Room perimeter shape (Interior walls)	0	0.35	Y/2	Y/4
19	A-FLOR-SIGN	A-FLORSIM-	Signage	0	0.25	R/1	R/3
20	A-FLOR-SPCL	A-FLORSPM-	Architectural specialties, toilet room accessories (floor mounted only), display cases	0	0.25	G/3	G/2

Figure 25. Model file level/layer assignment table

Annotation levels/layers. Users should note that the first eight level/layers for every model file type (with the exception of detail model file types) are the same, the only difference being that the Discipline Code changes depending on the discipline for that model file type. The unique function of these eight annotation levels/layers is to contain model-specific information that might not be required by other disciplines. These levels/layers are as follows with ** representing a Discipline Code (e.g., A-, C-, QY, etc.):

**ANNO-DIMS
Witness/extension lines, dimension arrowheads/dots/slashes and dimension text.

**ANNO-KEYN
Keynotes with associated leader lines and arrowheads, ConDoc keynotes.

**ANNO-NOTE
General notes and remarks.

**ANNO-NPLT
Construction lines, reference targets, review comments, area calculations, and viewport windows.

**ANNO-PATT
Miscellaneous patterning, crosshatching, poche.

**ANNO-SYMB
Miscellaneous symbols.
**ANNO-TEXT
Miscellaneous text and callouts with associated leader lines and arrowheads.
**ANNO-XREF
An AutoCAD user-specific layer for use in attachment of external references (i.e., reference files).

Status levels/layers. Users should note that the last nine level/layers for every model file type (with the exception of detail and demolition model file types) are the same, the only difference being that the Discipline Code changes depending on the discipline for that model file type. The unique function of these nine Status levels/layers is to differentiate phases of work (e.g., new construction versus existing to remain items). When a project is started, the predominant portion of the work needs to be determined (i.e., will most of the items drawn be new work, demolition work, existing work, etc.). Once this determination is made, all levels/layers within that model file type (with the exception of the Status levels/layers) are used to draw those items. The Status levels/layers are then used to represent the minor phases of the design.

The Status levels/layers are as follows with ** representing a Discipline Code (e.g., A-, C-, QY, etc.):

**STAT-DEMO
Existing to demolish.
**STAT-EXST
Existing to remain.
**STAT-FUTR
Future work.
**STAT-MOVE
Items to be moved.
**STAT-NEWW
New work.
**STAT-NICN
Not in contract.
**STAT-PHS#
Phase number (the # is replaced with 1-9).
**STAT-RELO
Relocated items.
**STAT-TEMP
Temporary work.

Example: A new addition to an existing building is to be designed. Since the majority of items designed in the model files will be New items, it is decided that all levels/layers (except for the Status levels/layers) will be used for new work. For items that are to be demolished, these items will be shown on the *-STAT-DEMO level/layer. Similarly, existing to remain items would be shown on the *-STAT-EXST level/layer.

Note: *The *-STAT-NEWW level/layer would not be used since the non-Status levels/layers in the model file are used to represent these items.*

Border sheets

As mentioned before, a model file contains information that can be referenced by other disciplines to create other model files or final sheet files. A border sheet model file contains border sheet linework, the title block, and project-specific symbols and text. Typically, each discipline will use the same border sheet and fill in sheet-specific information within the title block or revision block prior to printing the final sheet file (e.g., sheet number, designer names, etc.).

Seed files/prototype drawings

To implement the standards without the aid of a "workspace" (Chapter 6), the most efficient means of creating model files is with a template file. Both AutoCAD and MicroStation allow the use of a template file (MicroStation seed file/AutoCAD prototype drawing). These files can contain established working units, preset drawing variables, or an established set of levels/layers. If a seed file/prototype drawing is developed for each model file, it is a simple matter for the architect/engineer to attach this file as a

The development of such a file eliminates the tedious aspect of setting variables and typing in level/ layer names every time a new drawing is started.

Both MicroStation and AutoCAD have similar methods for using seed files/prototype drawings. First, a new file or drawing (model or sheet) is created. Second, a seed file/prototype drawing is selected and attached (Figures 26 and 27). Based on the seed file/prototype drawing selected, the CADD program will set up all parameters and levels/layers contained in that seed file/prototype drawing.

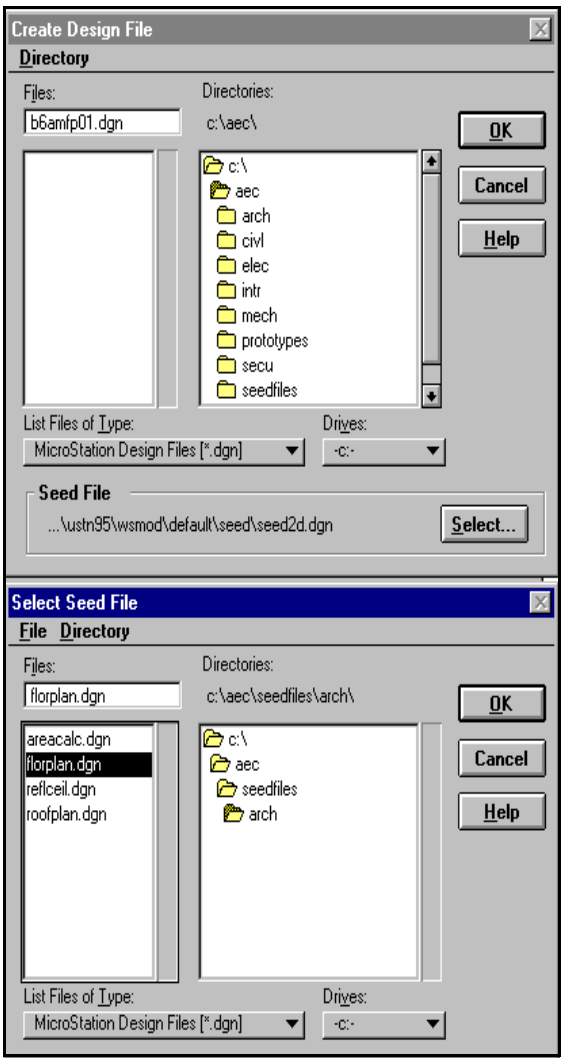

Figure 26. MicroStation design file creation and seed file selection dialog boxes

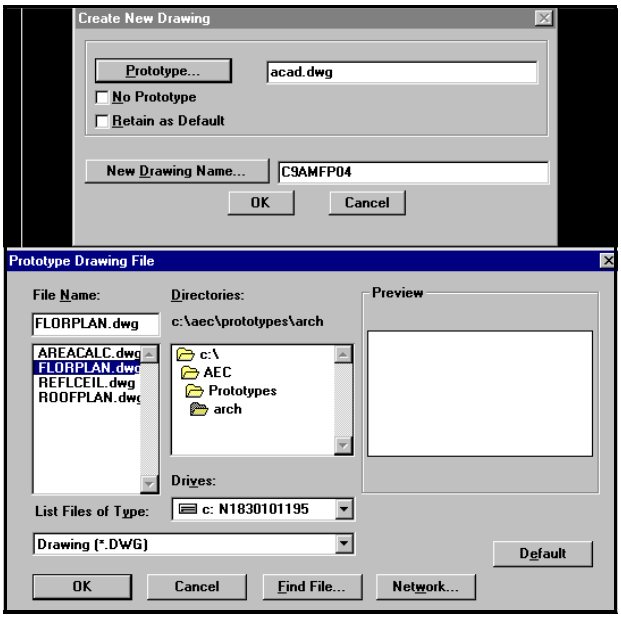

Figure 27. AutoCAD new drawing file and prototype drawing selection windows

Note: *A seed file/prototype drawing for every model file within this standard does not have to be created at once. Rather, as particular model files are developed, seed files/prototype drawings can be saved at that time and stored away for later projects. Eventually, a complete library of seed files/prototype drawings will be developed and can be shared between other architects and engineers at a site.*

Reference files (XREFs)

Reference files (external references or XREFs) enable designers to share drawing information electronically, eliminating the need to exchange hard copy drawings between the design disciplines. With the use of reference files, the structural engineer need not wait for the architect to complete the architectural floor plans before beginning the structural framing plan model file. Nor does the engineer have to redraw the architect's structural walls on the structural framing plan model file.

Referencing electronic drawing information makes any future changes made by the architect apparent to the structural designer. This real-time access to the work of others ensures accuracy and consistency within a set of drawings and helps promote concurrent design efforts. No longer does one discipline have to wait until another discipline is nearly finished before they begin their drawings.

The use of reference files is a key component in the successful use of the level/layer assignments. To create either a model file or a final sheet file, multiple referenced model files may be required. Figure 28 shows how a simple Plumbing Piping Plan model file is developed using levels/layers referenced from the Enlarged Floor Plan model file. These referenced levels/layers show the current locations of walls, toilets, and sinks placed by the architect. The engineer uses this information to design the piping system required to service the plumbing fixtures. The architectural floor plan would then be detached and the Plumbing Piping Plan would be saved as a separate model file.

Sheet Files

Sheet files are the final project sheets that are ready to be plotted. A sheet file is an assembly of referenced model files plus additional sheet-specific information (e.g., north arrows, scales, section cuts, title block information, etc.).

Level/layer assignment tables

The level/layer assignment tables in Appendix B present the following (Figure 29):

- The levels/layers assigned to each sheet file.
- The level number assigned to each level/layer (MicroStation users only).
- An AIA and corresponding ISO format level/layer name for each level/layer.
- A detailed definition for each level/layer.

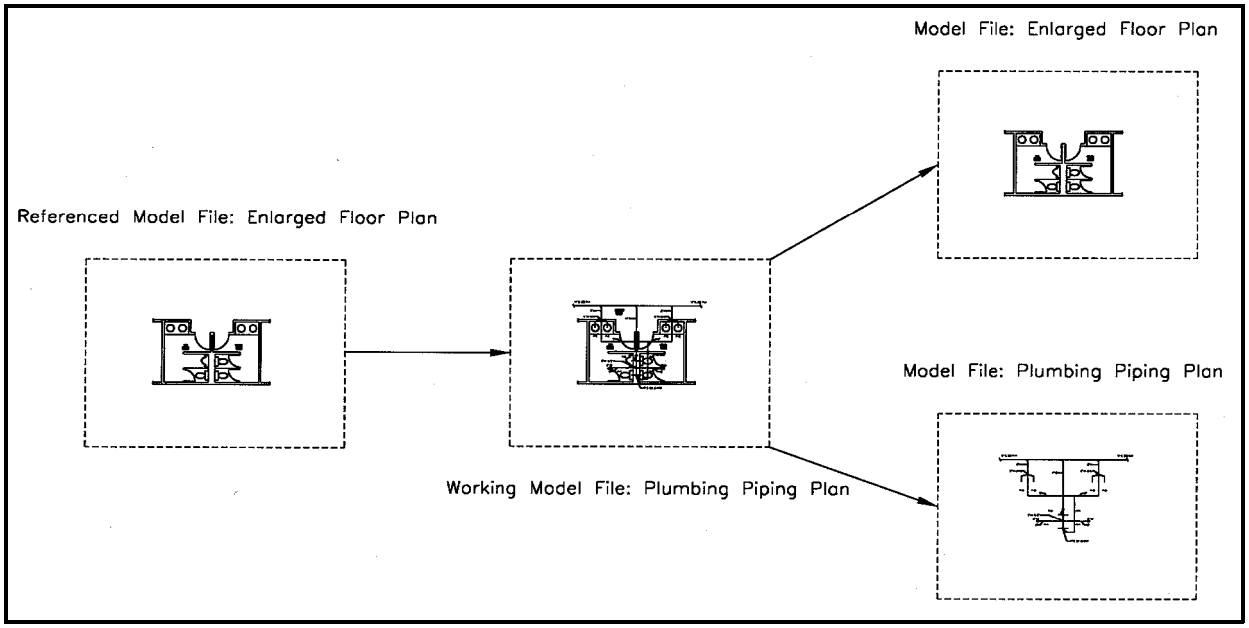

Figure 28. Using referenced model files to build a new model file without redundant effort

Discipline: Architectural

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Sheet-specific keynotes with associated leader lines and arrowheads, ConDoc keynotes	0	V	V	V
3	A-ANNO-LEGN	A-----LEP-	Legends and schedules	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	A-ANNO-PATT	A-----PAP-	Sheet-specific patterning, crosshatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Sheet-specific text and callouts with associated leader lines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	A-ANNO-REDL	A-----REP-	Redlines	0	0.25	R/1	R/3
63	A-ANNO-REVS	A-----RVP-	Revisions	0	0.50	C/4	C/7
NA	A-ANNO-XREF	A-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Figure 29. Sheet file level/layer assignment table

- The presentation graphics associated with each level/layer. This includes the line style, line width, and color.

Users should note that the first ten level/layers of the sheet file type for every discipline are the same, with the exception that the Discipline Code changes depending on the discipline for that sheet file type. The unique function of these ten Annotation levels/layers is to contain sheet-specific information. These levels/layers are as follows with ** representing a Discipline Code (e.g., A-, C-, QY, etc.):

**ANNO-DIMS
Sheet-specific witness/extension lines, dimension arrowheads/dots/slashes, and dimension text.

**ANNO-KEYN
Sheet-specific keynotes with associated leader lines and arrowheads, ConDoc keynotes.

**ANNO-LEGN
Legends and schedules.

**ANNO-NOTE
Sheet-specific general notes and remarks.

**ANNO-PATT
Sheet-specific patterning, crosshatching, poche (e.g., keyplan patterning).

**ANNO-REDL
Redlines, markups.

**ANNO-REVS
Revisions, amendments, addenda, and modifications.

**ANNO-SYMB
Sheet-specific symbols (e.g., north arrow, scales, etc.).

**ANNO-TEXT
Sheet-specific text and callouts with associated leader lines and arrowheads.

**ANNO-XREF
An AutoCAD user-specific layer for use in attachment of external references (i.e., reference files).

Development of sheet files

As mentioned previously, reference files are used in the construction of sheet files. The user opens the sheet file type from Appendix B that is appropriate to his/her discipline then references existing model files.

As an example, in order to create a final Plumbing Plan sheet file (Figure 30), the engineer would first open/create a new sheet file. The border sheet model file would be referenced first, and the engineer would continue to reference other model files, such as the Architectural Floor Plan and the Plumbing Piping Plan. The engineer would have to "turn off" levels/layers within each referenced model file to achieve the desired sheet file. Finally, the ten sheet file levels/layers such as P-ANNO-TEXT would be used to fill in sheet-specific information (e.g., sheet number, designer name, etc.). Once the final sheet file is achieved, the resulting file is saved.

Note: *Release 1.4 of the Tri-Service A/E/C CADD Standard included plotting matrix tables that showed the possible combinations of reference and active levels/layers used to create sheet files. These tables are available at the TSTC s Internet site at tsc.wes.army.mil.*

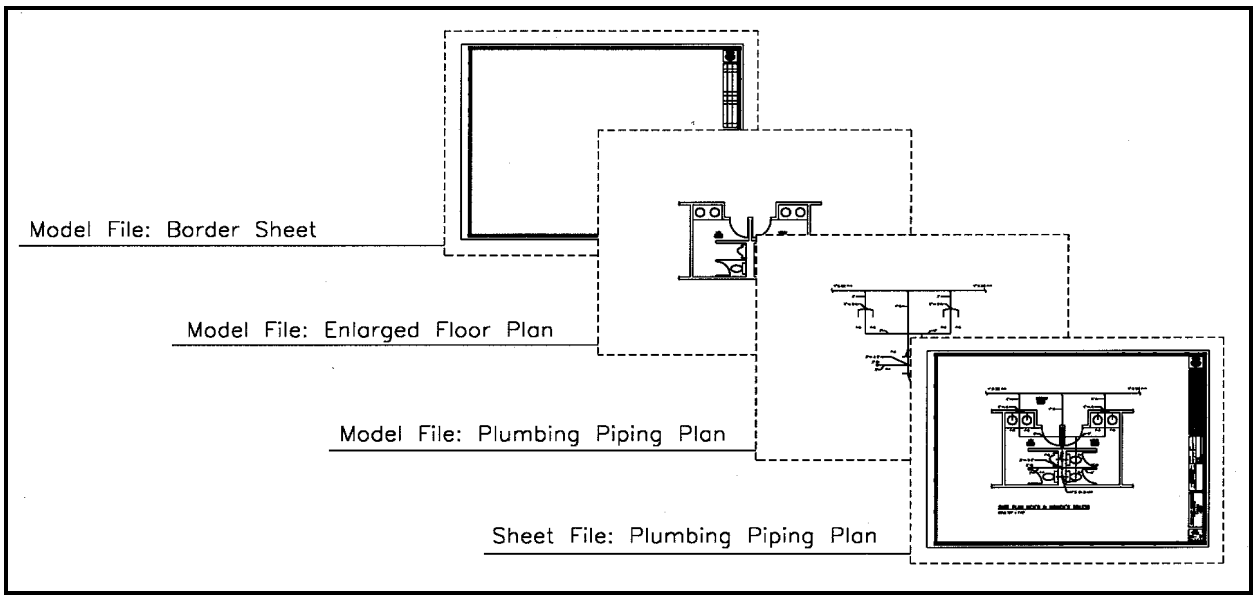

Figure 30. Using multiple referenced model files to build a sheet file without redundant effort

5 Standard Symbology

Introduction

A “cell” in MicroStation and a “block” in AutoCAD are groups of graphical elements that can be manipulated as a single entity. Examples of typical cells/blocks are windows, doors, graphic scale keys, furniture, steel sections, etc. The use of such symbology enhances CADD productivity and provides an excellent opportunity for CADD standardization.

Electronic Version of the Symbology/Elements

Deliverables

Within the electronic deliverables available as part of the A/E/C CADD Standard, the following symbology is provided (Figure 31):

- MicroStation cells contained in cell libraries (.cel) and custom line styles contained in resource files (.rsc).
- AutoCAD blocks, each in an individual drawing (.dwg) file, patterns in a pattern library file (.pat), multilines in a multiline library file (.mln), and custom line styles in a line type library file (.lin).

Line styles

Line style definitions determine the particular dash-dot sequence and relative length of dashes, blank spaces, and the characteristics of any included text or shapes. Working with line styles provides a means of distinguishing the purpose of one line from another.

AutoCAD and MicroStation both provide a set of standard line styles, as well as allowing the user to define custom line styles. In AutoCAD these custom line styles are defined in a line type library file (.lin) and a multiline library file (.mln). In MicroStation, custom line styles are contained in resource files (.rsc) (see Chapter 3 “Line Types/Styles” for more information.

Note: *Custom line styles do not readily translate between systems; therefore users should anticipate that translated custom line styles may revert into their primitive graphics.*

Tabulated Version of the Symbology/Elements

Graphical presentations of the entire symbology library are shown in Appendix E “A/E/C CADD Symbology.”

The symbology library contains four types of elements: Lines, Patterns, Symbols, and Objects. Lines are defined as a graphical representation of linear drawing features (e.g., utility lines, fence lines, contours, etc.). Patterns are defined as repeated drawing elements (e.g., lines, dots, circles, etc.) within a defined area. Symbols are defined as MicroStation cells or AutoCAD

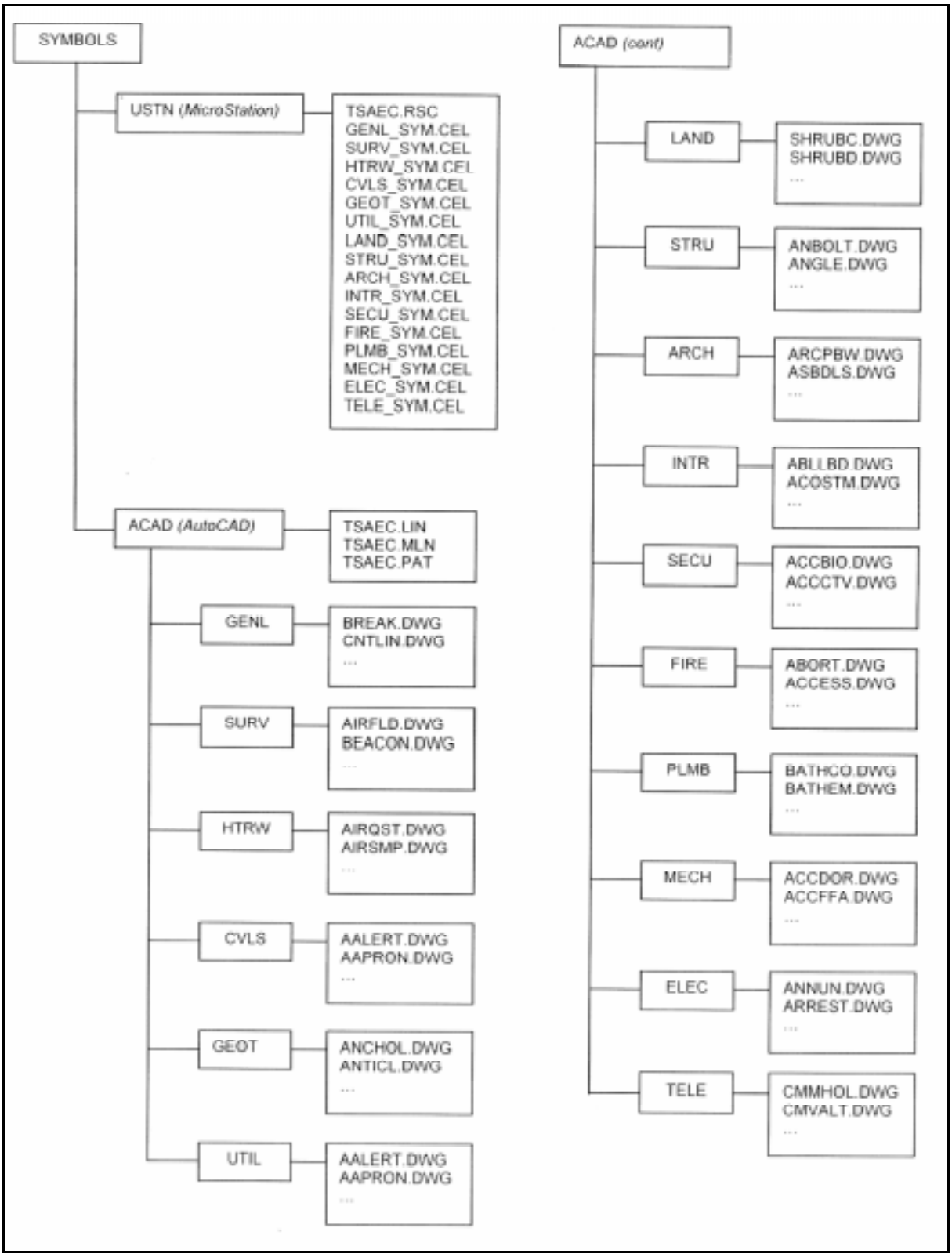

Figure 31. Symbology directory structure

blocks that represent objects that are not required to be scaled based upon their actual size (e.g., electrical outlets, smoke detectors, etc.). Objects are defined as MicroStation cells or AutoCAD blocks that represent objects that are required to be scaled based upon their actual size (e.g., 30- by 50-in. desk, scale bars, etc.).

Examples of the four element types are shown in Figures 32-35 and include the following information:

- **Name** - The name of the line type, pattern, symbol, or object. This is the name used when accessing the element with AutoCAD or MicroStation.
- **Element type** - The type of element that the symbology represents (i.e., line, pattern, symbol, or object).
- **Description** - A brief explanation of what the symbol represents.

GIS-Related Symbols

Many disciplines, such as Civil/Site, Survey and Mapping, and Utilities, have symbols that may be used by A/E/C disciplines but are not shown in Appendix E. These "missing" symbols, due to their more frequent use in GIS-related work, can be found in the "Tri-Service Spatial Data Standards" (TSSDS) (TSTC 1998a). These standards can be obtained from the Tri-Service CADD/GIS Technology Center by e-mailing *carpenb@wes.army.mil* or by visiting the TSTC's Web site at *http://tsc.wes.army.mil*.

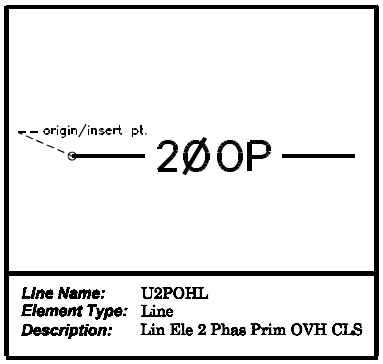

Figure 32. Line element

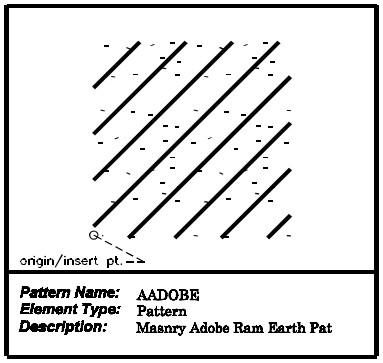

Figure 33. Pattern element

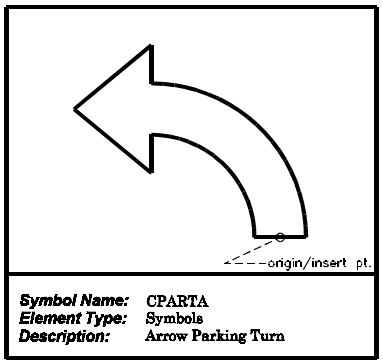

Figure 34. Symbol element

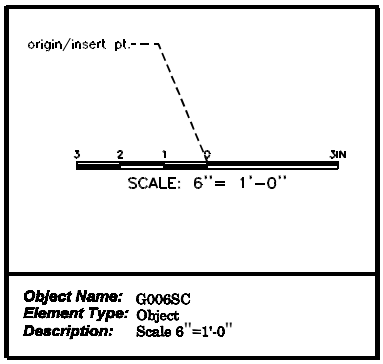

Figure 35. Object element

6 Tri-Service A/E/C CADD Standard Implementation Tools

CADD users throughout the Tri-Services have indicated a need for customized shortcuts or utilities to facilitate efficient production of architectural and engineering CADD documents. Since the distribution of Release 1.4 of the Tri-Service A/E/C CADD Standard, users have been requesting tools to implement this detailed standard.

To meet this demand, the Tri-Service CADD/GIS Technology Center has been developing applications for both AutoCAD and MicroStation that will help in implementing the CADD Standard (i.e., the user will rarely have to refer to the standard document when developing CADD files).

The MicroStation-based tool (called Workspace) is distributed in three components: the Workspace generator, the Workspace itself, and a standard compliance checker. The generator creates the workspace tools (palettes, icons, etc.) using a Microsoft Access database that contains all the information within the hundreds of level/layer tables in the CADD Standard. Using a "generator" gives system administrators the ability to edit the Access database and rerun the generator to create a Workspace that meets site-specific needs. The Workspace (Figure 36) allows the user to select the type of model or sheet file he/she wants to create (e.g., Architectural Floor Plan), and a palette of the various items that can be placed in that type of file is generated (e.g., doors, windows, etc.). The user then selects the specific type of item required (e.g., full height doors, partial height doors, door symbols, etc.) and the workspace sets the proper level settings (e.g., level number, color, line weight, line style).

The final part of the workspace is the checker (Figure 37). The checker can evaluate individual CADD files to determine if they are in compliance with the A/E/C CADD Standard. The checker records which elements are not in compliance and can locate those elements for the user within the file.

The AutoCAD counterpart to the MicroStation Workspace is the CE-CADD application developed by the U.S. Coast Guard. CE-CADD is an add-on application for AutoCAD Release 14 and currently implements the Coast Guard's CADD Standard. Through an agreement with the Coast Guard, the Tri-Service CADD/GIS Technology Center is modifying the CE-CADD software to implement the Tri-Service A/E/C CADD Standard. It is anticipated that the revised CE-CADD software will be available in the early part of FY 2000.

Further information on these implementation tools can be obtained from the Tri-Service CADD/GIS Technology Center web site at *http://tsc.wes.army.mil*.

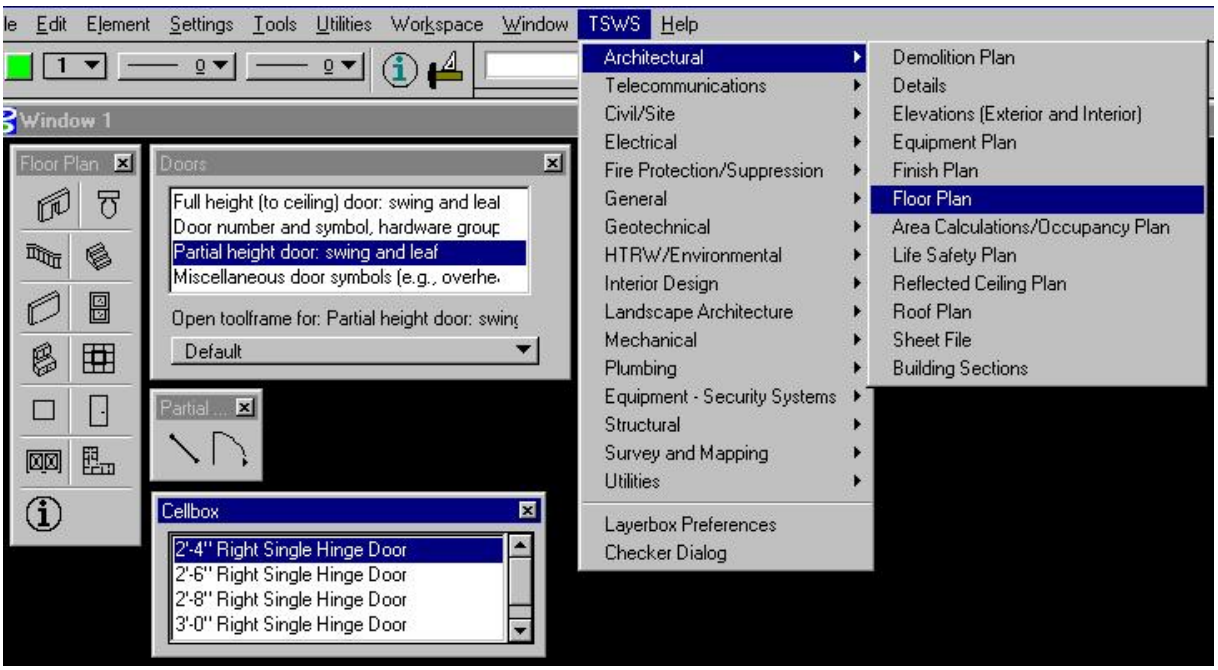

Figure 36. MicroStation workspace

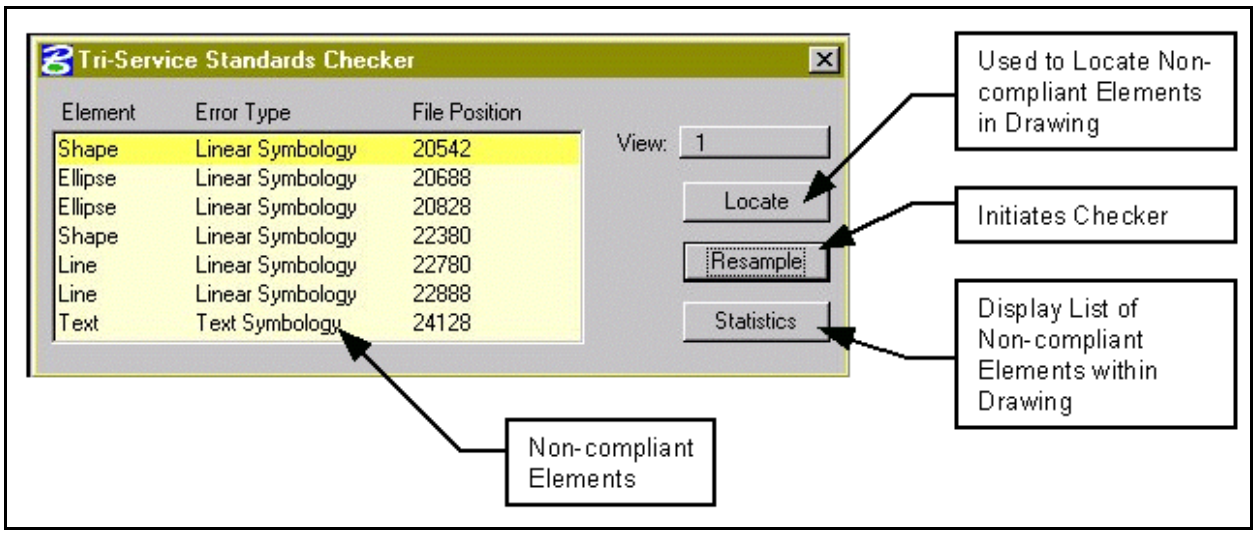

Figure 37. Workspace checker

7 Deliverables and Data Exchange

The need to exchange digital data (drawing files and database information) between DoD elements (and the A-E community) necessitates answering many questions about electronic media, file format, etc. The overview presented herein should not be considered a standard or all inclusive. It is presented only as a checklist of pertinent items. A more thorough analysis of data exchange is available in the Tri-Service CADD/GIS Technology Center's publication, "Tri-Service Standards, Part 1.1 - A-E CADD Deliverables Standards" (TSTC 1998b). This report is available by contacting Mr. Bobby Carpenter at the Tri-Service CADD/GIS Technology Center (1-800-522-6937, extension 4572).

Delivery Media

The preferred type of media for data exchange depends both on the hardware/software platforms utilized in creating a drawing/data file and the size of the file. Generally, digital data sets larger than 9 megabytes (Mb) should be furnished via magnetic tape, optical disk, or compact disc-read only memory (CD-ROM), and not on multiple diskettes.

Note: *For archiving data, CD-ROM is the preferred format due to its extended shelf life. Magnetic tape media should be transferred to new tapes or CDs within one year of creation.*

The most common and generally acceptable digital media consist of:

a. 3-1/2-in. high-density floppy disks.

b. High-density disk (e.g., Bernouli Disk, Zip Disk, JAZ Disk).

c. 8-mm magnetic tape cartridge.

d. 4-mm magnetic tape cartridge (e.g., Colorado Jumbo Tapes).

e. 5-1/4-in. read/write (R/W) optical disk.

f. CD-ROM.

When digital media are exchanged, an external label should contain, at a minimum, the following information:

a. Format and version (e.g., Windows NT 4.0) of the operating system on which the media was created.

b. Utility (command) used for writing the files to disk.

c. Sequence number (for multiple diskettes, etc.)

d. A short description of contents.

In addition, a transmittal sheet should accompany the media containing, at a minimum, the following information:

a. Information included on the external label of each tape, diskette, etc.; total number of disks/tapes being delivered; and a list of the file names and file descriptions on each disk/tape.

b. Instructions for restoring/transferring the files from the media.

c. Certification that all delivery media is free of known computer viruses, including the name(s) of the virus scanning software used and the date the virus scan was performed.

Format

All digital files should be delivered in a format that is directly readable and compatible with the installation's CADD software and platforms without conversion. Before a file is placed on the delivery digital media, the following procedures should be performed:

a. Remove all extraneous graphics outside the border area, and set the active parameters to a standard setting or those in the seed/prototype file.

b. Make sure all reference (external reference) files are attached without device or directory specifications.

c. Compress and reduce all files using the appropriate utilities. A digital media copy of the decompression utility should be provided with the deliverable media, if appropriate.

d. Include all files, both graphic and nongraphic, required for the project (e.g., color tables, pen tables, font libraries, cell/block libraries, user command files, plot files, etc.).

e. Make sure that all support files such as those listed in *d* are in the same directory and that references to those files do not include device or directory specifications.

f. Include any standard sheets (i.e., abbreviation sheets, standard symbol sheets, etc.) necessary for a complete project.

g. Document any nonstandard fonts, tables, symbols, etc., developed by the A/E or not provided with the Government-furnished material.

Documentation

Complete documentation (e.g., data input procedures), pen settings, lock settings, reference files, cells, level assignments, and history (e.g., when developed/ modified) information for each file should be included on level/layer **-ANNO-NPLT (** represents the design discipline). Documentation of the plot for each drawing is needed to duplicate the plot at a later date and should be provided with the deliverables.

Hard copy

A/E's should provide one full-size (or half-size at the preference of the installation) hard copy (usually Mylar, paper, or vellum) of each finished drawing with the final submittal. A hard copy of the documentation for each file should also be provided with each submittal on the size and type of media as preferred by the installation and negotiated in the A/E contract.

Ownership

The Government's rights to ownership of the digital data and other deliverables developed by the A/E under the contract must be clearly defined in the technical contract provisions. The Government has a legal right to demand unrestricted ownership to all data, designs, and materials for which the Government has paid 100 percent of the development cost. If the Contractor has to develop data, designs, or materials above and beyond what the Government specifies and pays for 100 percent, then the Contractor owns the rights to that percentage.

A statement similar to the following should be included in each A/E contract:

The Government, for itself and such others as it deems appropriate, will have unlimited rights under this contract to all information and materials developed under this contract and furnished to the Government and documentation thereof, reports and listings, and all other items pertaining to the work and services pursuant to this agreement including any copyright. Unlimited rights under this contract are rights to use, duplicate, or disclose data, and information, in whole or in part in any manner and for any purpose whatsoever without compensation to or approval from the Contractor. The Government will at all reasonable times have the right to inspect the work and will have access to and the right to make copies of the above-mentioned items. All digital files and data, and other products generated under this contract, shall become the property of the Government. By reference, the following DFAR clauses are included in this contract as a part of the requirements herein:

a. DFAR 252.227-7013, "Rights in Technical Data and Computer Software."

b. DFAR 252.227-7018, "Restrictive Markings on Technical Data."

c. DFAR 252.227-7019, "Identification of Restricted Rights Computer Software."

d. DFAR 252.227-7028, "Requirement for Technical Data Representation."

e. DFAR 252.227-7037, "Validation of Restrictive Markings on Technical Data."

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Appendix A
Model File Level/Layer Assignment Tables

This appendix provides the model file level/layer assignment tables:

General

Border Sheet A3
Keyplan A4

Survey and Mapping

Demolition Plan A5
Survey and Mapping Plan A6
Elevations A8
Sections A9

HTRW/Environmental

Demolition Plan A10
Industrial Water Plan A11
Waste Water Plan A12
Sections A13
Details A14

Civil/Site

Demolition Plan A15
Site Plan A16
Grading Plan A18
Transportation Site Plan A20
Airfield Plan A22
Elevations A24
Sections A25
Details A26

Geotechnical

Demolition Plan A27
Boring Log A28
Sections A29
Details A30

Utilities

Demolition Plan A31
Electrical Utilities Plan A32
EMCS Plan A34
Fuel Utilities Plan A35
Gas Utilities Plan A36
Poles Plan A37
HTCW Utilities Plan A38
Domestic Water Plan A40
One-Line Diagrams A42

Landscape Architecture

Demolition Plan A43
Irrigation Plan A44
Landscape Plan A45
Turfing Plan A46
Details A47

Structural

Demolition Plan A48
Foundation Plan A49
Structural Framing Plan A51
Column Plan A52
Elevations A53
Building Sections A54
Details A55

Architectural

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Reflected Ceiling Plan A59
Roof Plan A60
Elevations (Exterior and Interior) A61
Finish Plan A62
Building Sections A63
Details A64
Equipment Plan A65
Life Safety Plan A66
Area Calculations/Occupancy Plan . . . A67

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Demolition Plan A68
Furniture Plan A69
System Furniture Plan/
Workstation Typical A70
Signage Plan A71
Interior Elevations A72
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Equipment - Security Systems

Demolition Plan A74
Security Plan A75
Elevations A77
Riser Diagrams A78

Fire Protection/Suppression

Demolition Plan A79
Sprinkler Plan A80
Riser Diagrams A81

Plumbing

Demolition Plan A82
Piping Plan A83
Riser Diagrams A84

Mechanical

Demolition Plan A85
HVAC Plan A86
Piping Plan A88
Specialty Piping and Equipment A90
Machine Design A92
Material Handling A93
Controls Plan A94
Elevations A95
Sections A96
Details A97

Electrical

Demolition Plan A98
Lighting Plan A99
Power Plan A101
Auxiliary Power Plan A103
Grounding System A105
One-Line Diagrams A106
Riser Diagrams A107
Details A108

Telecommunications

Demolition Plan A109
Communication System Plan A110
Block/Riser Diagrams A112

Discipline: General

Model File Type: Border Sheet

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
5	G-ANNO-NOTE	G-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
6	G-ANNO-SYMB	G-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	G-ANNO-TEXT	G-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	0.35	Y/2	Y/4
10	G-ANNO-TTLB	G-----TTP-	Border and title block linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: General

Model File Type: Keyplan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
3	G-ANNO-NPLT	G-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	G-ANNO-PATT	G-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	G-ANNO-SYMB	G-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	G-ANNO-TEXT	G-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	G-ANNO-XREF	G-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines							
11	S-GRID-HORZ	S-GRIDHOM-	Column grid outside building (should be referenced from Structural Column Plan if possible)	7	0.18	B/5	B/1
12	S-GRID-IDEN	S-GRIDIDM-	Column tags (should be referenced from Structural Column Plan if possible)	0	0.35	Y/2	Y/4
13	S-GRID-VERT	S-GRIDVEM-	Column grid outside building (should be referenced from Structural Column Plan if possible)	7	0.18	B/5	B/1
Floor Information							
15	G-PLAN-OTLN	G-PLANOTM-	Floor outline/perimeter/building footprint (should be referenced from Floor Plan if possible)	0	0.35	M/6	M/5
Site Information							
20	G-SITE-OTLN	G-SITEOTM-	Site plan - keyplan	0	0.35	M/6	M/5

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	V-DEMO-HAZW	V-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Survey and Mapping Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color#	MicroStation Line Color#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	V-SURV-DATA	V-SURVDAM-	Survey data (PI, PT, etc.) information	0	0.35	M/6	M/5
9	V-SURV-LINE	V-SURVLIM-	Survey and control line	2	0.50	C/4	C/7
10	V-SURV-IDEN	V-SURVIDM-	Survey and control line annotation	0	0.35	M/6	M/5
Building and Primary Structures							
11	V-BLDG-IDEN	V-BLDGIDM-	Annotation	0	0.35	Y/2	Y/4
12	V-BLDG-OTLN	V-BLDGOTM-	Building and primary structures - outline	0	0.50	C/4	C/7
Site							
14	V-SITE-FENC	V-SITEFEM-	Fences	0	0.35	M/6	M/5
16	V-SITE-IDEN	V-SITEIDM-	Existing site feature annotation	0	0.35	M/6	M/5
17	V-SITE-OTLN	V-SITEOTM-	Existing site features	0	0.50	C/4	C/7
19	V-SITE-SIGN	V-SITESIM-	Signs	0	0.50	C/4	C/7
20	V-SITE-VEGE	V-SITEVEM-	Existing treelines and vegetation	0	0.25	G/3	G/2
21	V-SITE-WALK	V-SITEWAM-	Walks, trails, and bicycle paths	0	0.35	M/6	M/5
Property							
24	V-PROP-BRNG	V-PROPBRM-	Bearings and distance labels	0	0.35	M/6	M/5
25	V-PROP-ESMT	V-PROPESM-	Easements	3	0.50	C/4	C/7
26	V-PROP-LINE	V-PROPLIM-	Property lines	11	0.50	C/4	C/7
27	V-PROP-RWAY	V-PROPRWM-	Right of ways	3	0.70	W/7	W/0
28	V-PROP-IDEN	V-PROPIDM-	Property annotation	0	0.35	M/6	M/5
Storm Drainage							
30	V-STRM-DRNG	V-STRMDRM-	Storm drainage, headwalls, inlets, manholes, culverts, drainage structures	0	0.35	M/6	M/5
31	V-STRM-IDEN	V-STRMIDM-	Storm drainage, headwalls, inlets, manholes, culverts, drainage structures, ditches, swales, ponds annotation	0	0.35	Y/2	Y/4
32	V-STRM-DTCH	V-STRMDTM-	Ditches and swales	0	0.35	Y/2	Y/4
33	V-STRM-POND	V-STRMPOM-	Ponds	0	0.35	M/6	M/5
Pavements/Transportation							
34	V-PAVE-ROAD	V-PAVEROM-	Roads, parking lots, railroads, airfield pavements	0	0.35	Y/2	Y/4
35	V-PAVE-IDEN	V-PAVEIDM-	Roads, parking lots, railroads, airfield pavements annotation	0	0.35	Y/2	Y/4
36	V-PAVE-PATT	V-PAVEPAM-	Joint patterns, text and dimensions	0	0.35	Y/2	Y/4
37	V-PAVE-MARK	V-PAVEMAM-	Pavement markings	0	0.35	Y/2	Y/4

Discipline: Survey and Mapping

Model File Type: Survey and Mapping Plan

Topography							
39	V-TOPO-BORE	V-TOPOBOM-	Boring locations	0	0.35	M/6	M/5
40	V-TOPO-COOR	V-TOPOCOM-	Coordinate grid tics and text	0	0.25	R/1	R/3
41	V-TOPO-MAID	V-TOPOMAM-	Major contours - annotation	0	0.35	Y/2	Y/4
42	V-TOPO-MAJR	V-TOPOMJM-	Major contours	0	0.35	Y/2	Y/4
43	V-TOPO-MIID	V-TOPOMIM-	Minor contours - annotation	0	0.25	G/3	G/2
44	V-TOPO-MINR	V-TOPOMNM-	Minor contours	0	0.25	G/3	G/2
48	V-TOPO-SPOT	V-TOPOSPM-	Spot elevations	0	0.35	Y/2	Y/4
Utilities							
59	V-UTIL-GASP	V-UTILGAM-	Gas piping, features, valves and text	7	0.35	Y/2	Y/4
60	V-UTIL-PIPE	V-UTILPIM-	Other piping (ex.: sanitary) and text	0	0.35	Y/2	Y/4
61	V-UTIL-POWR	V-UTILPOM-	Power lines, lights, telephone lines, features, poles and text	0	0.35	M/6	M/5
62	V-UTIL-WATR	V-UTILWAM-	Water piping, hydrants, tanks, valves and text	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Elevations

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
29	V-ELEV-BORE	V-ELEVBOM-	Boring log staff (See Geotechnical for breakdown of colors)	0	V	V	V
40	V-ELEV-MISC	V-ELEVMIM-	Miscellaneous (fencing, handrails, etc.)	0	0.35	Y/2	Y/4
41	V-ELEV-GRDE	V-ELEVGRM-	New grade lines	0	0.50	C/4	C/7
42	V-ELEV-SBGR	V-ELEVSBM-	New subgrade lines	0	0.25	R/1	R/3
43	V-ELEV-UTIL	V-ELEVUTM-	Utilities (pipes, underground lines, etc.)	0	0.35	Y/2	Y/4
44	V-ELEV-EXGL	V-ELEVEXM-	Existing ground line	3	0.35	Y/2	Y/4
45	V-ELEV-RTWL	V-ELEVRTM-	Retaining wall, structures, buildings, etc.	0	0.70	W/7	W/0
Frame							
48	V-FRAM-GRID	V-FRAMGRM-	Grid lines	0	0.25	G/3	G/2
49	V-FRAM-XSPR	V-FRAMXSM-	Profiles and x-sections, grid borders, border text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
29	V-SECT-BORE	V-SECTBOM-	Boring log staff (See Geotechnical for breakdown of colors)	0	V	V	V
40	V-SECT-MISC	V-SECTMIM-	Miscellaneous (fencing, handrails, etc.)	0	0.35	Y/2	Y/4
41	V-SECT-GRDE	V-SECTGRM-	New grade lines	0	0.50	C/4	C/7
42	V-SECT-SBGR	V-SECTSBM-	New subgrade lines	0	0.25	R/1	R/3
43	V-SECT-UTIL	V-SECTUTM-	Utilities (pipes, underground lines, etc.)	0	0.35	Y/2	Y/4
44	V-SECT-EXGL	V-SECTEXM-	Existing ground line	3	0.35	Y/2	Y/4
45	V-SECT-RTWL	V-SECTRTM-	Retaining wall, structures, buildings, etc.	0	0.70	W/7	W/0
Frame							
48	V-FRAM-GRID	V-FRAMGRM-	Grid lines	0	0.25	G/3	G/2
49	V-FRAM-XSPR	V-FRAMXSM-	Profiles and x-sections, grid borders, border text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	H-DEMO-HAZW	H-----HAM-D	Hazardous waste	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Industrial Water Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	H-INDW-DEVC	H-INDWDEM-	Grit chambers, markers, meters, flumes, neutralizers, oil/water separators, pumps, ejectors, tanks, and valves	0	0.35	M/6	M/5
Piping							
14	H-INDW-ABND	H-INDWABM-	Abandoned piping	2	0.35	M/6	M/5
15	H-INDW-FLOW	H-INDWFLM-	Flow direction arrows	0	0.35	M/6	M/5
17	H-INDW-FTTG	H-INDWFTM-	Caps and cleanouts	0	0.35	M/6	M/5
18	H-INDW-IDEN	H-INDWIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
19	H-INDW-MAIN	H-INDWMAM-	Main industrial water piping	0	0.35	M/6	M/5
20	H-INDW-SERV	H-INDWSEM-	Industrial water service piping	0	0.35	M/6	M/5
Junction Boxes							
22	H-INDW-JBOX	H-INDWJBM-	Junction boxes and manholes	0	0.25	R/1	R/3
Reservoirs							
25	H-INDW-LAGN	H-INDWLAM-	Lagoons	0	0.35	M/6	M/5
27	H-INDW-RSID	H-INDWRIM-	Identifier tags, symbol modifier, and text	0	0.35	M/6	M/5
Stations							
31	H-INDW-ANOD	H-INDWANM-	Anode test stations	0	0.35	M/6	M/5
32	H-INDW-PLNT	H-INDWPLM-	Treatment plants	0	0.35	M/6	M/5
33	H-INDW-PUMP	H-INDWPUM-	Pump stations	0	0.35	M/6	M/5
34	H-INDW-STID	H-INDWSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Waste Water Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	H-WWTR-DEVC	H-WWTRDEM-	Downspouts, grease traps, grit chambers, markers, meters, flumes, neutralizers, oil/water separators, pumps, ejectors, septic tanks, tanks, and valves	0	0.35	M/6	M/5
Piping							
14	H-WWTR-ABND	H-WWTRABM-	Abandoned piping	2	0.35	M/6	M/5
15	H-WWTR-FLOW	H-WWTRFLM-	Flow direction arrows	0	0.35	M/6	M/5
17	H-WWTR-FTTG	H-WWTRFTM-	Caps and cleanouts	0	0.35	M/6	M/5
18	H-WWTR-IDEN	H-WWTRIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
19	H-WWTR-MAIN	H-WWTRMAM-	Main waste water piping	0	0.35	M/6	M/5
20	H-WWTR-SERV	H-WWTRSEM-	Waste water service piping	0	0.35	M/6	M/5
Junction Boxes							
22	H-WWTR-JBOX	H-WWTRJBM-	Distribution boxes, junction boxes and manholes	0	0.25	R/1	R/3
Areas							
24	H-WWTR-FILT	H-WWTRFIM-	Filtration beds	0	0.25	G/3	G/2
25	H-WWTR-LAGN	H-WWTRLAM-	Lagoons	0	0.25	G/3	G/2
26	H-WWTR-NITF	H-WWTRNIM-	Nitrification drain fields	0	0.25	G/3	G/2
27	H-WWTR-RSID	H-WWTRRIM-	Identifier tags, symbol modifier, and text	0	0.25	G/3	G/2
Stations							
31	H-WWTR-ANOD	H-WWTRANM-	Anode test stations	0	0.35	M/6	M/5
32	H-WWTR-PLNT	H-WWTRPLM-	Treatment plants	0	0.35	M/6	M/5
33	H-WWTR-PUMP	H-WWTRPUM-	Pump stations	0	0.35	M/6	M/5
34	H-WWTR-STID	H-WWTRSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Sections

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	H-SECT-IDEN	H-SECTIDM-	Component identification numbers	0	0.35	Y/2	Y/4
46	H-SECT-MBND	H-SECTMBM-	Material beyond section cut	0	0.18	B/5	B/1
47	H-SECT-MCUT	H-SECTMCM-	Material cut by section	0	0.50	C/4	C/7
48	H-SECT-PATT	H-SECTPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	H-DETL-GENF	H-DETLGEM-	General features (miscellaneous items)	0	V	V	V
10	H-DETL-ACCS	H-DETLACM-	Accessories	0	0.25	G/3	G/2
19	H-DETL-CONC	H-DETLCOM-	Concrete	0	0.35	M/6	M/5
29	H-DETL-FILL	H-DETLFIM-	Fill/cover material	0	0.18	B/5	B/1
41	H-DETL-MEMB	H-DETLMEM-	Membrane/netting	2	0.25	R/1	R/3
44	H-DETL-PIPE	H-DETLPIM-	Pipe and conduit	0	0.35	M/6	M/5
45	H-DETL-PUMP	H-DETLPUM-	Pumps	0	0.35	Y/2	Y/4
49	H-DETL-STRC	H-DETLSTM-	Structural features	0	0.35	M/6	M/5
50	H-DETL-TANK	H-DETLTAM-	Tanks	0	0.35	Y/2	Y/4
56	H-DETL-VLVE	H-DETLVLM-	Valves and fittings	0	0.35	Y/2	Y/4
57	H-DETL-WIRE	H-DETLWIM-	Wiring	0	0.35	Y/2	Y/4

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	C-DEMO-HAZW	C-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Site Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	C-SURV-BENC	C-SURVBEM-	Horizontal and vertical benchmarks	0	0.35	M/6	M/5
9	C-SURV-LINE	C-SURVLIM-	Primary feature alignment or survey control line	7	0.25	G/3	G/2
10	C-SURV-IDEN	C-SURVIDM-	Primary feature alignment or survey control line annotation	0	0.35	M/6	M/5
Buildings and Structures							
11	C-BLDG-IDEN	C-BLDGIDM-	Building and other stucture annotation	0	0.35	Y/2	Y/4
12	C-BLDG-OTLN	C-BLDGOTM-	Buildings and other structures	0	0.70	W/7	W/0
Site Improvement							
13	C-SITE-FEID	C-SITEFIM-	Fence, handrail, ramp, sign, and trail annotation	0	0.35	M/6	M/5
14	C-SITE-FENC	C-SITEFEM-	Fences	0	0.35	M/6	M/5
15	C-SITE-HRAL	C-SITEHRM-	Handrails	0	0.25	R/1	R/3
16	C-SITE-IDEN	C-SITEIDM-	Site improvement annotation	0	0.35	M/6	M/5
17	C-SITE-IMPR	C-SITEIMM-	Site improvements (channel or levee features)	0	0.50	C/4	C/7
18	C-SITE-RAMP	C-SITERAM-	Ramps	0	0.35	Y/2	Y/4
19	C-SITE-SIGN	C-SITESIM-	Signs	0	0.50	C/4	C/7
20	C-SITE-STRS	C-SITESTM-	Stairs	0	0.35	M/6	M/5
21	C-SITE-WALK	C-SITEWAM-	Walks, trails and bicycle paths	V	0.35	Y/2	Y/4
Pavements/Transportation							
22	C-PAVE-ROAD	C-PAVEROM-	Roads, parking lots, railroads, and airfield pavements	0	0.50	C/4	C/7
23	C-PAVE-IDEN	C-PAVEIDM-	Road, parking lot, railroad, and airfield pavement annotation	0	0.35	Y/2	Y/4
Property							
24	C-PROP-BRNG	C-PROPBRM-	Bearings and distance labels	0	0.35	Y/2	Y/4
25	C-PROP-ESMT	C-PROPESM-	Easements	2	0.70	W/7	W/0
26	C-PROP-CONS	C-PROPCOM-	Construction limits/controls, staging area	11	0.70	W/7	W/0
27	C-PROP-RWAY	C-PROPRWM-	Right of ways	2	0.70	W/7	W/0
28	C-PROP-IDEN	C-PROPIDM-	Property annotation	0	0.35	Y/2	Y/4
Storm Drainage							
30	C-STRM-DRNG	C-STRMDRM-	Storm drainage, headwalls, inlets, manholes, culverts, and drainage structures	0	0.50	C/4	C/7
31	C-STRM-IDEN	C-STRMIDM-	Storm drainage, headwall, inlet, manhole, culvert, and drainage structure annotation	0	0.35	Y/2	Y/4
32	C-STRM-DTCH	C-STRMDTM-	Ditches and swales	0	0.35	Y/2	Y/4
33	C-STRM-POND	C-STRMPOM-	Ponds	0	0.35	Y/2	Y/4

Discipline: Civil/Site

Model File Type: Site Plan

Erosion Control							
34	C-EROS-STRC	C-EROSSTM-	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	0	0.25	R/1	R/3
35	C-EROS-IDEN	C-EROSIDM-	Riprap, revetment/stone protection, breakwater, dike, jetty, and drain annotation	0	0.35	Y/2	Y/4
Alignments							
36	C-ALGN-OBJT	C-ALGNOBM-	Secondary feature alignment or survey control line	7	0.25	G/3	G/2
37	C-ALGN-IDEN	C-ALGNIDM-	Secondary feature alignment or survey control line annotation	0	0.35	Y/2	Y/4
Topography							
38	C-TOPO-BKLN	C-TOPOBKM-	Breaklines	0	0.25	G/3	G/2
39	C-TOPO-BORE	C-TOPOBOM-	Boring locations	0	0.35	Y/2	Y/4
40	C-TOPO-COOR	C-TOPOCOM-	Coordinate grid tics and text	0	0.25	R/1	R/3
41	C-TOPO-MAID	C-TOPOMAM-	Major contours - annotation	0	0.35	Y/2	Y/4
42	C-TOPO-MAJR	C-TOPOMJM-	Major contours	0	0.35	Y/2	Y/4
43	C-TOPO-MIID	C-TOPOMIM-	Minor contours - annotation	0	0.25	G/3	G/2
44	C-TOPO-MINR	C-TOPOMNM-	Minor contours	0	0.25	G/3	G/2
46	C-TOPO-SLID	C-TOPOSIM-	Cut/fill slope, top/toe slope annotation	0	0.35	Y/2	Y/4
47	C-TOPO-SLOP	C-TOPOSLM-	Cut/fill slopes	0	0.35	Y/2	Y/4
48	C-TOPO-SPOT	C-TOPOSPM-	Spot elevations and joint elevations	0	0.35	Y/2	Y/4
49	C-TOPO-SLTP	C-TOPOSTM-	Top/toe slopes	0	0.35	M/6	M/5
Utilities							
59	C-UTIL-GASP	C-UTILGAM-	Gas piping, features, valves and text	7	0.35	Y/2	Y/4
60	C-UTIL-PIPE	C-UTILPIM-	Other piping (ex.: sanitary) and text	0	0.35	Y/2	Y/4
61	C-UTIL-POWR	C-UTILPOM-	Power lines, lights, telephone lines, features, poles and text	0	0.35	M/6	M/5
62	C-UTIL-WATR	C-UTILWAM-	Water piping, hydrants, tanks, valves and text	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Grading Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Buildings and Structures							
11	C-BLDG-IDEN	C-BLDGIDM-	Building and other stucture annotation	0	0.35	Y/2	Y/4
12	C-BLDG-OTLN	C-BLDGOTM-	Buildings and other structures	0	0.70	W/7	W/0
Borrow Areas							
21	C-BORW-LINE	C-BORWLNM-	Borrow/Spoil area	2	0.35	Y/2	Y/4
22	C-BORW-IDEN	C-BORWIDM-	Borrow/Spoil area annotation	0	0.35	Y/2	Y/4
Storm Drainage							
26	C-STRM-UNDR	C-STRMUNM-	Underground storm drainage pipe	3	0.35	Y/2	Y/4
27	C-STRM-CURB	C-STRMCRM-	Storm drain inlets - curb	0	0.35	Y/2	Y/4
28	C-STRM-MNHL	C-STRMMHM-	Storm drain manholes	0	0.35	Y/2	Y/4
29	C-STRM-HDWL	C-STRMHDM-	Storm drainage headwalls	0	0.70	W/7	W/0
30	C-STRM-CULV	C-STRMCUM-	Culverts, drainage inlets, storm drains	0	0.50	C/4	C/7
31	C-STRM-IDEN	C-STRMIDM-	Storm drainage, headwall, inlet, manhole, culvert, and drainage structure annotation	0	0.35	Y/2	Y/4
32	C-STRM-DTCH	C-STRMDTM-	Ditches and swales	0	0.35	Y/2	Y/4
33	C-STRM-POND	C-STRMPOM-	Ponds	0	0.35	Y/2	Y/4
34	C-STRM-EROS	C-STRMERM-	Erosion control	V	0.25	R/1	R/3
36	C-STRM-LINE	C-STRMLIM-	Control alignments	7	0.25	G/3	G/2
37	C-STRM-LIID	C-STRMLDM-	Control alignment annotation	0	0.35	Y/2	Y/4
Topography							
38	C-TOPO-BKLN	C-TOPOBKM-	Topo breaklines	0	0.25	G/3	G/2
39	C-TOPO-BORE	C-TOPOBOM-	Soil boring layout	0	0.35	Y/2	Y/4
40	C-TOPO-COOR	C-TOPOCOM-	Coordinate grid tics and text	0	0.25	R/1	R/3
41	C-TOPO-MAID	C-TOPOMAM-	Major contours - annotation	0	0.35	Y/2	Y/4
42	C-TOPO-MAJR	C-TOPOMJM-	Major contours	0	0.35	Y/2	Y/4
43	C-TOPO-MIID	C-TOPOMIM-	Minor contours - annotation	0	0.25	G/3	G/2
44	C-TOPO-MINR	C-TOPOMNM-	Minor contours	0	0.25	G/3	G/2
45	C-TOPO-RTWL	C-TOPORTM-	Retaining wall	0	0.70	W/7	W/0
46	C-TOPO-SLID	C-TOPOSLM-	Cut/fill slope, top/toe slope annotation	0	0.35	Y/2	Y/4
47	C-TOPO-SLOP	C-TOPOSOM-	Cut/fill slopes	0	0.35	Y/2	Y/4
48	C-TOPO-SPOT	C-TOPOSPM-	Spot elevations	0	0.35	Y/2	Y/4
49	C-TOPO-SLTP	C-TOPOSTM-	Top/toe slopes	0	0.35	M/6	M/5

Discipline: Civil/Site

Model File Type: Grading Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Transportation Site Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	C-SURV-BENC	C-SURVBEM-	Horizontal and vertical benchmarks	0	0.35	M/6	M/5
9	C-SURV-LINE	C-SURVLIM-	Primary feature alignment or survey control line	7	0.25	G/3	G/2
10	C-SURV-IDEN	C-SURVIDM-	Primary feature alignment or survey control line annotation	0	0.35	M/6	M/5
Roads							
11	C-ROAD-CNID	C-ROADCNM-	Centerline annotation	0	0.35	M/6	M/5
12	C-ROAD-CNTR	C-ROADCTM-	Centerlines	7	0.25	R/1	R/3
13	C-ROAD-CURB	C-ROADCUM-	Curbs	0	0.35	M/6	M/5
14	C-ROAD-GARD	C-ROADGAM-	Guardrails	0	0.35	M/6	M/5
15	C-ROAD-IDEN	C-ROADIDM-	Road, curb, and guardrail annotation	0	0.35	M/6	M/5
16	C-ROAD-OTLN	C-ROADOTM-	Road outlines	0	0.50	C/4	C/7
Parking Lots and Minor Roads							
21	C-PKNG-CARS	C-PKNGCAM-	Graphic illustration of cars	0	0.35	Y/2	Y/4
22	C-PKNG-CNID	C-PKNGCNM-	Centerline annotation	0	0.35	M/6	M/5
23	C-PKNG-CNTR	C-PKNGCTM-	Centerlines	7	0.25	R/1	R/3
24	C-PKNG-CURB	C-PKNGCUM-	Curbs	0	0.35	M/6	M/5
25	C-PKNG-DRAN	C-PKNGDRM-	Parking lot drainage slope indications	0	0.25	R/1	R/3
26	C-PKNG-IDEN	C-PKNGIDM-	Parking lot, minor road, and curb annotation	0	0.35	M/6	M/5
27	C-PKNG-ISLD	C-PKNGISM-	Parking islands	0	0.50	C/4	C/7
28	C-PKNG-OTLN	C-PKNGOTM-	Parking lots and minor roads - outlines	0	0.50	C/4	C/7
29	C-PKNG-PVMK	C-PKNGPVM-	Pavement markings	0	0.35	Y/2	Y/4
30	C-PKNG-STRP	C-PKNGSTM-	Parking lot striping, handicapped symbols	0	0.35	Y/2	Y/4
Railroads							
33	C-RAIL-CNID	C-RAILCNM-	Centerline annotation	0	0.35	M/6	M/5
34	C-RAIL-CNTR	C-RAILCTM-	Centerlines	7	0.25	R/1	R/3
35	C-RAIL-IDEN	C-RAILIDM-	Railroad - annotation	0	0.35	M/6	M/5
36	C-RAIL-OTLN	C-RAILOTM-	Railroad - outlines	0	0.35	Y/2	Y/4
Pavement Joints							
39	C-PAVE-JOIN	C-PAVEJOM-	Pavement joints	0	0.35	M/6	M/5
40	C-PAVE-IDEN	C-PAVEIDM-	Pavement joint annotation	0	0.35	M/6	M/5

Discipline: Civil/Site

Model File Type: Transportation Site Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Airfield Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Taxiway							
11	C-TAXI-CNID	C-TAXICNM-	Centerline annotation	0	0.35	Y/2	Y/4
12	C-TAXI-CNTR	C-TAXICTM-	Centerlines	7	0.25	R/1	R/3
13	C-TAXI-IDEN	C-TAXIIDM-	Taxiway - annotation	0	0.35	Y/2	Y/4
14	C-TAXI-JOIN	C-TAXIJOM-	Taxiway joints	0	0.35	Y/2	Y/4
15	C-TAXI-OTLN	C-TAXIOTM-	Taxiway - outlines	0	0.50	C/4	C/7
16	C-TAXI-SHLD	C-TAXISHM-	Shoulders with annotation	0	0.35	Y/2	Y/4
Apron							
18	C-APRN-CNID	C-APRNCNM-	Centerline annotation	0	0.35	Y/2	Y/4
19	C-APRN-CNTR	C-APRNCTM-	Centerlines	7	0.25	R/1	R/3
20	C-APRN-IDEN	C-APRNIDM-	Airfield apron - annotation	0	0.35	Y/2	Y/4
21	C-APRN-JOIN	C-APRNJOM-	Airfield joints	0	0.35	Y/2	Y/4
22	C-APRN-OTLN	C-APRNOTM-	Airfield apron - outlines	0	0.50	C/4	C/7
23	C-APRN-SHLD	C-APRNSHM-	Shoulders with annotation	0	0.35	Y/2	Y/4
Overrun Areas							
25	C-OVRN-CNID	C-OVRNCNM-	Centerline annotation	0	0.35	Y/2	Y/4
26	C-OVRN-CNTR	C-OVRNCTM-	Centerlines	7	0.25	R/1	R/3
27	C-OVRN-IDEN	C-OVRNIDM-	Airfield overrun area - annotation	0	0.35	Y/2	Y/4
28	C-OVRN-JOIN	C-OVRNJOM-	Airfield overrun joints	0	0.35	Y/2	Y/4
29	C-OVRN-OTLN	C-OVRNOTM-	Airfield overrun area - outlines	0	0.50	C/4	C/7
Airfield Pavement Types							
31	C-PAVE-TYPA	C-PAVETAM-	Type A traffic area	4	0.50	C/4	C/7
32	C-PAVE-TYPB	C-PAVETBM-	Type B traffic area	6	0.50	C/4	C/7
33	C-PAVE-TYPC	C-PAVETCM-	Type C traffic area	10	0.50	C/4	C/7
34	C-PAVE-IDEN	C-PAVEIDM-	Airfield pavement annotation	0	0.35	Y/2	Y/4
Runway							
35	C-AIRF-CNTR	C-AIRFCTM-	Centerlines	7	0.25	R/1	R/3
36	C-AIRF-IDEN	C-AIRFIDM-	Airfield runway annotation	0	0.35	Y/2	Y/4
37	C-AIRF-RUNW	C-AIRFRUM-	Airfield runway edges	0	0.35	M/6	M/5

Discipline: Civil/Site

Model File Type: Airfield Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Elevations

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
29	C-ELEV-BORE	C-ELEVBOM-	Boring log staff (See Geotechnical for breakdown of colors)	0	V	V	V
40	C-ELEV-MISC	C-ELEVMIM-	Miscellaneous (fencing, handrails, etc.)	0	0.35	Y/2	Y/4
41	C-ELEV-GRDE	C-ELEVGRM-	New grade lines	0	0.50	C/4	C/7
42	C-ELEV-SBGR	C-ELEVSBM-	New subgrade lines	0	0.25	R/1	R/3
43	C-ELEV-UTIL	C-ELEVUTM-	Utilities (pipes, underground lines, etc.)	0	0.35	Y/2	Y/4
44	C-ELEV-EXGL	C-ELEVEXM-	Existing ground line	3	0.35	Y/2	Y/4
45	C-ELEV-RTWL	C-ELEVRTM-	Retaining wall, structures, buildings, etc.	0	0.70	W/7	W/0
Frame							
48	C-FRAM-GRID	C-FRAMGRM-	Grid lines	0	0.25	G/3	G/2
49	C-FRAM-XSPR	C-FRAMXSM-	Profiles and x-sections, grid borders, border text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
29	C-SECT-BORE	C-SECTBOM-	Boring log staff (See Geotechnical for breakdown of colors)	0	V	V	V
40	C-SECT-MISC	C-SECTMIM-	Miscellaneous (fencing, handrails, etc.)	0	0.35	Y/2	Y/4
41	C-SECT-GRDE	C-SECTGRM-	New grade lines	0	0.50	C/4	C/7
42	C-SECT-SBGR	C-SECTSBM-	New subgrade lines	0	0.25	R/1	R/3
43	C-SECT-UTIL	C-SECTUTM-	Utilities (pipes, underground lines, etc.)	0	0.35	Y/2	Y/4
44	C-SECT-EXGL	C-SECTEXM-	Existing ground line	3	0.35	Y/2	Y/4
45	C-SECT-RTWL	C-SECTRTM-	Retaining wall, structures, buildings, etc.	0	0.70	W/7	W/0
Frame							
48	C-FRAM-GRID	C-FRAMGRM-	Grid lines	0	0.25	G/3	G/2
49	C-FRAM-XSPR	C-FRAMXSM-	Profiles and x-sections, grid borders, border text	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	C-DETL-GENF	C-DETLGEM-	General features (miscellaneous items)	0	V	V	V
19	C-DETL-CONC	C-DETLCOM-	Concrete	0	0.35	M/6	M/5
20	C-DETL-COVR	C-DETLCVM-	Covers and fittings	0	0.35	M/6	M/5
23	C-DETL-ERTH	C-DETLERM-	Earth	0	0.25	G/3	G/2
27	C-DETL-FAST	C-DETLFAM-	Fasteners	0	0.25	R/1	R/3
28	C-DETL-FENC	C-DETLFEM-	Fencing	0	0.35	M/6	M/5
29	C-DETL-FILL	C-DETLFIM-	Fill	0	0.18	B/5	B/1
43	C-DETL-PAVE	C-DETLPVM-	Pavements	0	0.35	Y/2	Y/4
44	C-DETL-PIPE	C-DETLPIM-	Piping	0	0.35	M/6	M/5
47	C-DETL-SPCF	C-DETLSPM-	Special features	0	0.35	Y/2	Y/4
49	C-DETL-STRC	C-DETLSTM-	Structural metal	0	0.35	M/6	M/5
50	C-DETL-TANK	C-DETLTAM-	Tanks	0	0.35	Y/2	Y/4
56	C-DETL-VLVE	C-DETLVLM-	Valves and fittings	0	0.35	Y/2	Y/4

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	B-DEMO-HAZW	B-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Boring Log

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Borings/Perk Holes							
11	B-BORE-FLDI	B-BOREFLM-	Field information	0	0.25	G/3	G/2
12	B-BORE-HOLE	B-BOREHOM-	Bore/perk hole locations	0	0.35	Y/2	Y/4
13	B-BORE-IDEN	B-BOREIDM-	Component identification numbers	0	0.35	Y/2	Y/4
14	B-BORE-LABI	B-BORELAM-	Laboratory information	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
52	B-STAT-FUTR	B-------M-F	Future work	7	0.35	Y/2	Y/4
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
54	B-STAT-NEWW	B-------M-N	New work	0	0.50	C/4	C/7
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	B-SECT-IDEN	B-SECTIDM-	Component identification numbers	0	0.35	Y/2	Y/4
46	B-SECT-MBND	B-SECTMBM-	Material beyond section cut	0	0.18	B/5	B/1
47	B-SECT-MCUT	B-SECTMCM-	Material cut by section	0	0.50	C/4	C/7
48	B-SECT-PATT	B-SECTPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
52	B-STAT-FUTR	B-------M-F	Future work	7	0.35	Y/2	Y/4
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
54	B-STAT-NEWW	B-------M-N	New work	0	0.50	C/4	C/7
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	B-DETL-GENF	B-DETLGEM-	General features (miscellaneous items)	0	V	V	V
16	B-DETL-BORE	B-DETLBOM-	Borings/perk holes	0	0.35	Y/2	Y/4
17	B-DETL-FLDI	B-DETLFLM-	Field information	0	0.25	G/3	G/2
18	B-DETL-LABI	B-DETLLAM-	Laboratory information	0	0.25	R/1	R/3
19	B-DETL-CONC	B-DETLCOM-	Concrete	0	0.25	R/1	R/3
20	B-DETL-GNDW	B-DETLGNM-	Ground water	0	0.35	M/6	M/5
21	B-DETL-STRM	B-DETLSTM-	Storm water	0	0.35	Y/2	Y/4
23	B-DETL-ERTH	B-DETLERM-	Earth/soil	0	0.25	G/3	G/2
24	B-DETL-SURF	B-DETLSUM-	Surface areas	0	0.35	Y/2	Y/4
25	B-DETL-SUBS	B-DETLSBM-	Sub-surface areas	0	0.35	Y/2	Y/4
29	B-DETL-FILL	B-DETLFIM-	Fill/cover material	0	0.18	B/5	B/1
43	B-DETL-PAVE	B-DETLPAM-	Pavements	0	0.35	Y/2	Y/4
47	B-DETL-SPCF	B-DETLSPM-	Special features	0	0.35	Y/2	Y/4

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	U-DEMO-HAZW	U-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Electrical Utilities Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Abandoned Electrical Cables							
10	U-CABL-ABND	U-CABLABM-	Abandoned electrical utility lines	2	0.35	M/6	M/5
Primary Electrical Cables							
11	U-PRIM-IDEN	U-PRIMIDM-	Identifier tags, symbol modifier, and text	0	0.35	M/6	M/5
12	U-PRIM-OVHD	U-PRIMOVM-	Overhead electrical utility lines	4	0.35	M/6	M/5
13	U-PRIM-UNDR	U-PRIMUNM-	Underground electrical utility lines	3	0.35	M/6	M/5
Secondary Electrical Cables							
14	U-SCND-IDEN	U-SCNDIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
15	U-SCND-OVHD	U-SCNDOVM-	Overhead electrical utility lines	4	0.35	Y/2	Y/4
16	U-SCND-UNDR	U-SCNDUNM-	Underground electrical utility lines	3	0.35	Y/2	Y/4
Service Cables							
17	U-SERV-IDEN	U-SERVIDM-	Identifiers tags, symbol modifier, and text	0	0.25	G/3	G/2
18	U-SERV-OVHD	U-SERVOVM-	Overhead electrical utility lines	4	0.25	G/3	G/2
19	U-SERV-UNDR	U-SERVUNM-	Underground electrical utility lines	3	0.25	G/3	G/2
Devices							
20	U-SITE-DEVC	U-SITEDEM-	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	0.35	M/6	M/5
Ductbank							
21	U-SITE-DUCT	U-SITEDUM-	Ductbanks	0	0.25	G/3	G/2
Junction Boxes							
22	U-SITE-JBOX	U-SITEJBM-	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	0.25	R/1	R/3
Lights							
26	U-LITE-IDEN	U-LITEIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
27	U-LITE-FLOD	U-LITEFLM-	External flood lights	0	0.35	M/6	M/5
28	U-LITE-POLE	U-LITEPOM-	Pole mounted lights	0	0.35	M/6	M/5
29	U-LITE-STRT	U-LITESTM-	Street lights	0	0.35	M/6	M/5
30	U-LITE-WALK	U-LITEWAM-	Walkway lights	0	0.35	M/6	M/5
Substations							
32	U-SITE-SUBS	U-SITESUM-	Substations	0	0.35	Y/2	Y/4
Switches							
34	U-SITE-SWCH	U-SITESWM-	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	0	0.25	R/1	R/3
Transformers							
37	U-TRAN-IDEN	U-TRANIDM-	Identifier tags, symbol modifier, and text	0	0.35	M/6	M/5
38	U-TRAN-POLE	U-TRANPOM-	Pole mounted transformers	0	0.35	M/6	M/5

Discipline: Utilities

Model File Type: Electrical Utilities Plan

Vaults							
40	U-SITE-VALT	U-SITEVAM-	Vaults	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: EMCS Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
EMCS Cables							
10	U-EMCS-ABND	U-EMCSABM-	Abandoned cables	2	0.35	M/6	M/5
11	U-EMCS-IDEN	U-EMCSIDM-	Identifier tags, symbol modifier, and text	0	0.35	M/6	M/5
12	U-EMCS-OVHD	U-EMCSOVM-	Overhead cables	4	0.35	M/6	M/5
13	U-EMCS-UNDR	U-EMCSUNM-	Underground cables	3	0.35	M/6	M/5
Devices							
20	U-EMCS-DEVC	U-EMCSDEM-	Field interfaces, multiplexers, markers	0	0.35	M/6	M/5
Ductbank							
21	U-EMCS-DUCT	U-EMCSDUM-	Ductbanks	0	0.25	G/3	G/2
Junction Boxes							
22	U-EMCS-JBOX	U-EMCSJBM-	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Fuel Utilities Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	U-FUEL-DEVC	U-FUELDEM-	Air eliminators, filter strainers, hydrant fill points, line vents, markers, meters, oil/water separators, pumps, reducers, regulators, tanks, and valves	0	0.35	M/6	M/5
Stations							
14	U-FUEL-ANOD	U-FUELANM-	Anode test stations	0	0.35	M/6	M/5
15	U-FUEL-BOOS	U-FUELBOM-	Booster stations	0	0.35	M/6	M/5
16	U-FUEL-PUMP	U-FUELPUM-	Pump stations	0	0.35	M/6	M/5
18	U-FUEL-STID	U-FUELSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Junction Boxes							
22	U-FUEL-JBOX	U-FUELJBM-	Junction boxes, manholes, handholes, test boxes	0	0.25	R/1	R/3
Pits							
25	U-FUEL-HYDR	U-FUELHYM-	Hydrant control pits	0	0.25	G/3	G/2
26	U-FUEL-PTID	U-FUELPIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
27	U-FUEL-VENT	U-FUELVEM-	Vent pits	0	0.25	G/3	G/2
28	U-FUEL-VLVE	U-FUELVLM-	Valve pits	0	0.25	G/3	G/2
Piping							
32	U-FUEL-ABND	U-FUELABM-	Abandoned piping	2	0.35	M/6	M/5
33	U-FUEL-FLOW	U-FUELFLM-	Flow direction arrows	0	0.35	M/6	M/5
36	U-FUEL-DEFL	U-FUELDEM-	Defueling piping	0	0.35	M/6	M/5
37	U-FUEL-FTTG	U-FUELFTM-	Caps	0	0.35	M/6	M/5
40	U-FUEL-IDEN	U-FUELIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
43	U-FUEL-MAIN	U-FUELMAM-	Main fuel piping	0	0.35	M/6	M/5
46	U-FUEL-SERV	U-FUELSEM-	Service piping	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Gas Utilities Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	U-GASP-DEVC	U-GASPDEM-	Hydrant fill points, lights, vents, markers, meters, pumps, reducers, regulators, sources, tanks, drip pots, taps, and valves	0	0.35	M/6	M/5
Stations							
14	U-GASP-ANOD	U-GASPANM-	Anode test stations	0	0.35	M/6	M/5
15	U-GASP-BOOS	U-GASPBOM-	Booster stations	0	0.35	M/6	M/5
16	U-GASP-PUMP	U-GASPPUM-	Pump stations	0	0.35	M/6	M/5
17	U-GASP-REDC	U-GASPREM-	Reducing stations	0	0.35	M/6	M/5
18	U-GASP-STID	U-GASPSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Junction Boxes							
22	U-GASP-JBOX	U-GASPJBM-	Junction boxes and manholes	0	0.25	R/1	R/3
Pits							
26	U-GASP-PTID	U-GASPPIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
27	U-GASP-VENT	U-GASPVEM-	Vent pits	0	0.25	G/3	G/2
28	U-GASP-VLVE	U-GASPVLM-	Valve pits	0	0.25	G/3	G/2
Piping							
32	U-GASP-ABND	U-GASPABM-	Abandoned piping	2	0.35	M/6	M/5
33	U-GASP-FLOW	U-GASPFLM-	Flow direction arrows	0	0.25	M/6	M/5
37	U-GASP-FTTG	U-GASPFTM-	Caps, crosses, and tees	0	0.35	M/6	M/5
40	U-GASP-IDEN	U-GASPIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
43	U-GASP-MAIN	U-GASPMAM-	Main gas piping	0	0.35	M/6	M/5
46	U-GASP-SERV	U-GASPSEM-	Service piping	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Poles Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Poles							
11	U-POLE-DBLE	U-POLEDBM-	Double poles	0	0.25	G/3	G/2
12	U-POLE-IDEN	U-POLEIDM-	Identifier tags, symbol modifier, and text	0	0.25	G/3	G/2
13	U-POLE-RISR	U-POLERIM-	Pole risers	0	0.25	G/3	G/2
14	U-POLE-SNGL	U-POLESNM-	Single pole	0	0.25	G/3	G/2
15	U-POLE-TOWR	U-POLETOM-	Towers	0	0.25	G/3	G/2
Guy Wires							
20	U-GUYW-DOWN	U-GUYWDOM-	Down guy wires	0	0.25	G/3	G/2
21	U-GUYW-IDEN	U-GUYWIDM-	Identifier tags, symbol modifier, and text	0	0.25	G/3	G/2
22	U-GUYW-SPAN	U-GUYWSPM-	Span guy wires	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: HTCW Utilities Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	U-HTCW-DEVC	U-SITEDEM-	Rigid anchors, anchor guides, reducers, markers, meters, pumps, regulators, and valves	0	0.35	M/6	M/5
Stations							
14	U-HTCW-ANOD	U-HTCWANM-	Anode test stations	0	0.35	M/6	M/5
18	U-HTCW-STID	U-HTCWSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Plants							
19	U-HTCW-CHLP	U-HTCWCPM-	Chilled water plant	0	0.35	M/6	M/5
20	U-HTCW-HTPP	U-HTCWHPM-	High temperature water plant	0	0.35	M/6	M/5
21	U-HTCW-PLID	U-HTCWPIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Junction Boxes							
22	U-HTCW-JBOX	U-HTCWJBM-	Junction boxes, manholes, handholes, test boxes	0	0.25	R/1	R/3
Pits							
25	U-HTCW-PITS	U-HTCWPTM-	Valve pits	0	0.25	G/3	G/2
Piping							
32	U-HTCW-ABND	U-HTCWABM-	Abandoned piping	2	0.35	M/6	M/5
33	U-HTCW-FLOW	U-HTCWFLM-	Flow direction arrows	0	0.25	G/3	G/2
34	U-HTCW-CHLL	U-HTCWCHM-	Main chilled water piping	0	0.35	M/6	M/5
35	U-HTCW-CHLS	U-HTCWCSM-	Chilled water service piping	0	0.25	G/3	G/2
37	U-HTCW-FTTG	U-HTCWFTM-	Caps and flanges	0	0.35	M/6	M/5
38	U-HTCW-HTPL	U-HTCWHTM-	Main high temperature piping	0	0.25	R/1	R/3
39	U-HTCW-HTPS	U-HTCWHSM-	Hig temperature service piping	0	0.25	G/3	G/2
40	U-HTCW-IDEN	U-HTCWIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
41	U-HTCW-LTPL	U-HTCWLTM-	Main low temperature piping	0	0.35	Y/2	Y/4
42	U-HTCW-LTPS	U-HTCWLSM-	Low temperature service piping	0	0.25	G/3	G/2
45	U-HTCW-RTRN	U-HTCWRTM-	Return for all HTCW lines	0	0.18	B/5	B/1
48	U-HTCW-STML	U-HTCWSTM-	Main steam piping	0	0.25	R/1	R/3
49	U-HTCW-STMS	U-HTCWSSM-	Steam service piping	0	0.25	G/3	G/2

Discipline: Utilities

Model File Type: HTCW Utilities Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Domestic Water Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Devices							
11	U-DOMW-DEVC	U-DOMWDEM-	Connectors, faucets, hydrants, rectifiers,reducers, regulators, sprinklers, markers, vents, intake points, tanks, taps, backflow preventers, valves, meters, and pumps	0	0.35	M/6	M/5
Stations							
14	U-DOMW-ANOD	U-DOMWANM-	Anode test stations	0	0.35	M/6	M/5
15	U-DOMW-BOOS	U-DOMWBOM-	Booster stations	0	0.35	M/6	M/5
16	U-DOMW-PUMP	U-DOMWPUM-	Pump stations	0	0.35	M/6	M/5
17	U-DOMW-REDC	U-DOMWREM-	Pressure reducing stations	0	0.35	M/6	M/5
18	U-DOMW-STID	U-DOMWSIM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
Reservoirs							
19	U-DOMW-RSID	U-DOMWRIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
20	U-DOMW-RSVR	U-DOMWRSM-	Reservoirs	0	0.25	R/1	R/3
21	U-DOMW-SORC	U-DOMWSOM-	Domestic water source	0	0.25	R/1	R/3
Junction Boxes							
22	U-DOMW-JBOX	U-DOMWJBM-	Junction boxes and manholes	0	0.25	R/1	R/3
Pits							
26	U-DOMW-PTID	U-DOMWPIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
27	U-DOMW-VENT	U-DOMWVEM-	Vent pits	0	0.25	G/3	G/2
28	U-DOMW-VLVE	U-DOMWVLM-	Valve pits	0	0.25	G/3	G/2
Piping							
32	U-DOMW-ABND	U-DOMWABM-	Abandoned piping	2	0.35	M/6	M/5
33	U-DOMW-FLOW	U-DOMWFLM-	Flow direction arrows	0	0.35	M/6	M/5
37	U-DOMW-FTTG	U-DOMWFTM-	Caps, crosses, and tees	0	0.35	M/6	M/5
40	U-DOMW-IDEN	U-DOMWIDM-	Identifier tags, symbol modifier, and text	0	0.35	Y/2	Y/4
43	U-DOMW-MAIN	U-DOMWMAM-	Main domestic water piping	0	0.35	M/6	M/5
44	U-DOMW-NPOT	U-DOMWNPM-	Non-potable water piping	0	0.35	M/6	M/5
46	U-DOMW-SERV	U-DOMWSEM-	Domestic water service piping	0	0.35	M/6	M/5
47	U-DOMW-SPRL	U-DOMWSPM-	Sprinkler piping	0	0.35	M/6	M/5

Discipline: Utilities

Model File Type: Domestic Water Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: One-Line Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Control Circuit							
11	U-CNTL-ANTA	U-CNTLANM-	Antenna	V	0.25	G/3	G/2
12	U-CNTL-AVLV	U-CNTLAVM-	Arestor Valves	V	0.25	G/3	G/2
13	U-CNTL-BATR	U-CNTLBAM-	Batteries	V	0.25	G/3	G/2
14	U-CNTL-CAPT	U-CNTLCAM-	Capacitors	V	0.25	G/3	G/2
15	U-CNTL-CKTB	U-CNTLCKM-	Circurit Boards	V	0.25	G/3	G/2
16	U-CNTL-CONT	U-CNTLCOM-	Contacts	V	0.25	G/3	G/2
17	U-CNTL-FUSE	U-CNTLFUM-	Fuses	V	0.25	G/3	G/2
18	U-CNTL-GENR	U-CNTLGEM-	Generators	V	0.25	G/3	G/2
19	U-CNTL-GRND	U-CNTLGRM-	Grounds	V	0.25	G/3	G/2
20	U-CNTL-METR	U-CNTLMEM-	Metering Devices	V	0.25	G/3	G/2
21	U-CNTL-MOTR	U-CNTLMOM-	Motors	V	0.25	G/3	G/2
22	U-CNTL-OVLD	U-CNTLOVM-	Overloads	V	0.25	G/3	G/2
23	U-CNTL-RACT	U-CNTLRAM-	Reactors	V	0.25	G/3	G/2
24	U-CNTL-RELA	U-CNTLREM-	Relays	V	0.25	G/3	G/2
25	U-CNTL-RSTR	U-CNTLRSM-	Resistors	V	0.25	G/3	G/2
26	U-CNTL-SWCH	U-CNTLSWM-	Switches	V	0.25	G/3	G/2
27	U-CNTL-XFMR	U-CNTLXFM-	Transformers	V	0.25	G/3	G/2
One-Line Diagram Linework							
41	U-1LIN-LW18	U-1LIN18M-	Fine one-line linework	V	0.18	B/5	B/1
42	U-1LIN-LW25	U-1LIN25M-	Thin one-line linework	V	0.25	R/1	R/3
43	U-1LIN-LW35	U-1LIN35M-	Medium one-line linework	V	0.35	Y/2	Y/4
44	U-1LIN-LW50	U-1LIN50M-	Wide one-line linework	V	0.50	C/4	C/7
45	U-1LIN-LW70	U-1LIN70M-	Extra wide one-line linework	V	0.70	W/7	W/0
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	L-DEMO-HAZW	L-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Irrigation Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Colo
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Irrigation System							
25	L-IRRG-COVR	L-IRRGCOM-	Irrigation coverage, spray distribution patterns	0	0.18	B/5	B/1
26	L-IRRG-EQPM	L-IRRGEQM-	Equipment (e.g., controllers, valves, RPBPs, etc.)	0	0.35	M/6	M/5
27	L-IRRG-IDEN	L-IRRGIDM-	Annotation	0	0.35	Y/2	Y/4
28	L-IRRG-PIPE	L-IRRGPIM-	Piping	0	0.35	M/6	M/5
29	L-IRRG-SHPT	L-IRRGSHM-	Shrub location for drip/sprinkler heads	3	0.35	M/6	M/5
31	L-IRRG-SPKL	L-IRRGSPM-	Sprinklers	0	0.35	M/6	M/5
33	L-IRRG-TRPT	L-IRRGTRM-	Tree location for drip/sprinkler heads	3	0.35	M/6	M/5
34	L-IRRG-TURF	L-IRRGTUM-	Irrigation head for turf	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Landscape Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Colo
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Site Improvements							
11	L-SITE-BRDG	L-SITEBRM-	Bridges	0	0.18	B/5	B/1
12	L-SITE-DECK	L-SITEDEM-	Decks	0	0.25	G/3	G/2
13	L-SITE-FENC	L-SITEFEM-	Fencing	0	0.35	Y/2	Y/4
14	L-SITE-FURN	L-SITEFUM-	Site furnishings	0	0.25	G/3	G/2
15	L-SITE-IDEN	L-SITEIDM-	Annotation	0	0.18	B/5	B/1
16	L-SITE-PLAY	L-SITEPLM-	Play structures	0	0.35	Y/2	Y/4
17	L-SITE-POOL	L-SITEPOM-	Pools	0	0.35	Y/2	Y/4
18	L-SITE-ROCK	L-SITEROM-	Boulders and cobble	0	0.35	Y/2	Y/4
19	L-SITE-SPRT	L-SITESPM-	Sports fields	0	0.35	Y/2	Y/4
20	L-SITE-STEP	L-SITESTM-	Steps	0	0.35	Y/2	Y/4
21	L-SITE-WALL	L-SITEWAM-	Walls	0	0.35	Y/2	Y/4
Landscape Plants							
25	L-PLNT-BEDS	L-PLNTBEM-	Rock, bark, and other landscaping beds	0	0.25	G/3	G/2
26	L-PLNT-GRND	L-PLNTGRM-	Groundcover and vines	0	0.18	B/5	B/1
27	L-PLNT-IDEN	L-PLNTIDM-	Annotation	0	0.18	B/5	B/1
28	L-PLNT-PLAN	L-PLNTPLM-	Planting plants	0	0.25	G/3	G/2
29	L-PLNT-SHLN	L-PLNTSHM-	Shrub Line	V	0.25	G/3	G/2
3	L-PLNT-SHRB	L-PLNTSRM-	Shrubs (e.g., evergreen, deciduous)	0	0.18	B/5	B/1
31	L-PLNT-TRLN	L-PLNTTLM-	Tree Line	V	0.25	G/3	G/2
32	L-PLNT-TREE	L-PLNTTRM-	Trees (e.g., evergreen, deciduous, etc.)	0	0.18	B/5	B/1
Walks							
35	L-WALK-OTLN	L-WALKOTM-	Walks and steps	0	0.25	R/1	R/3
36	L-WALK-PATT	L-WALKPAM-	Walks and steps - patterning/hatching	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Turfing Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Hydroseeding							
11	L-HYDR-GENL	L-HYDRGEM-	Hydroseeding	0	0.18	B/5	B/1
12	L-HYDR-SEED	L-HYDRSEM-	Hydroseeding, Seed	0	0.25	R/1	R/3
13	L-HYDR-SODS	L-HYDRSOM-	Hydroseeding, Sod	0	0.35	Y/2	Y/4
14	L-HYDR-SPRG	L-HYDRSPM-	Hydroseeding, Sprigs	0	0.35	M/6	M/5
15	L-HYDR-SDSD	L-HYDRSDM-	Hydroseeding, Seed, Sod	0	0.25	G/3	G/2
16	L-HYDR-SDSG	L-HYDRSGM-	Hydroseeding, Seed, Sprig	0	0.50	C/4	C/7
17	L-HYDR-SSSG	L-HYDRSSM-	Hydroseeding, Seed, Sod, Sprig	0	0.25	R/1	R/3
Turfing							
21	L-TURF-IDEN	L-TURFIDM-	Annotation	0	0.18	B/5	B/1
22	L-TURF-MLCH	L-TURFMLM-	Mulching outlines	0	0.18	B/5	B/1
Turf							
25	L-SEED-GENL	L-SEEDGEM-	Seed	0	0.18	B/5	B/1
26	L-SEED-SDSD	L-SEEDSDM-	Seed, sod	0	0.25	G/3	G/2
27	L-SEED-SDSG	L-SEEDSGM-	Seed, Sprig	0	0.35	Y/2	Y/4
28	L-SEED-SODS	L-SEEDSGM-	Sod	0	0.35	M/6	M/5
29	L-SEED-SSSG	L-SEEDSSM-	Seed, sod, sprig	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	L-DETL-GENF	L-DETLGEM-	General features (miscellaneous items)	0	0.35	M/6	M/5
15	L-DETL-CABS	L-DETLCAM-	Cabinets, enclosures	0	0.35	Y/2	Y/4
19	L-DETL-CONC	L-DETLCOM-	Concrete	0	0.25	R/1	R/3
23	L-DETL-ERTH	L-DETLERM-	Earth	0	0.25	G/3	G/2
28	L-DETL-FENC	L-DETLFEM-	Fencing	0	0.35	M/6	M/5
29	L-DETL-FILL	L-DETLFIM-	Fill/cover material	0	0.18	B/5	B/1
32	L-DETL-FURN	L-DETLFUM-	Furniture, furnishings	0	0.35	Y/2	Y/4
34	L-DETL-GRAS	L-DETLGRM-	Grass, sod	0	0.25	G/3	G/2
44	L-DETL-PIPE	L-DETLPIM-	Piping, conduit, sprinklers	0	0.35	M/6	M/5
49	L-DETL-STRC	L-DETLSTM-	Structural metal, supports	0	0.35	M/6	M/5
54	L-DETL-VEGI	L-DETLVEM-	Trees, plants	0	0.25	G/3	G/2
56	L-DETL-VLVE	L-DETLVLM-	Valves, fittings	0	0.35	Y/2	Y/4
57	L-DETL-WIRE	L-DETLWIM-	Wiring	0	0.35	M/6	M/5

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	S-DEMO-HAZW	S-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Foundation Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines (use only if a Column Plan model file is not created)							
10	S-GRID-DIMS	S-GRIDDIM-	Column grid dimensions	0	0.25	R/1	R/3
11	S-GRID-HORZ	S-GRIDHOM-	Horizontal grid lines	7	0.18	B/5	B/1
12	S-GRID-IDEN	S-GRIDIDM-	Column tags	0	0.25	R/1	R/3
13	S-GRID-VERT	S-GRIDVEM-	Vertical grid lines	7	0.18	B/5	B/1
Foundation							
16	S-FNDN-FTNG	S-FNDNFTM-	Footings	2	0.50	C/4	C/7
17	S-FNDN-GRBM	S-FNDNGRM-	Grade beams	2	0.50	C/4	C/7
18	S-FNDN-IDEN	S-FNDNIDM-	Component identification numbers	0	0.35	Y/2	Y/4
19	S-FNDN-PILE	S-FNDNPIM-	Piles (steel sheet, concrete, wood), piers, caisson piers, drilled piers	2	0.35	Y/2	Y/4
20	S-FNDN-RBAR	S-FNDNRBM-	Foundation reinforcing	0	0.35	Y/2	Y/4
Grading							
23	S-GRAD-ELEV	S-GRADELM-	Elevated grading	3	0.18	Gr/8	Gr/9
24	S-GRAD-FLOR	S-GRADFLM-	Floor grading	3	0.18	Gr/8	Gr/9
Slabs							
26	S-SLAB-EDGE	S-SLABEDM-	Slab outline	0	0.35	Y/2	Y/4
27	S-SLAB-JOIN	S-SLABJOM-	Slab control joints	0	0.25	R/1	R/3
28	S-SLAB-RBAR	S-SLABRBM-	Slab reinforcing	0	0.50	C/4	C/7
Grating							
30	S-GRAT-ELEV	S-GRATELM-	Elevated grating (catwalks)	0	0.25	G/3	G/2
31	S-GRAT-FLOR	S-GRATFLM-	Floor grating	0	0.25	G/3	G/2
Joints							
33	S-JOIN-CNST	S-JOINCNM-	Construction joints	0	0.25	G/3	G/2
34	S-JOIN-CTRL	S-JOINCTM-	Control/expansion joints	3	0.25	R/1	R/3
Miscellaneous Supports							
35	S-SPPT-MISC	S-SPPTMIM-	Miscellaneous fasteners, anchor bolts, supports	0	0.35	Y/2	Y/4
Stairs							
38	S-STRS-JOIN	S-STRSJOM-	Stair control joints	0	0.25	G/3	G/2
39	S-STRS-LADD	S-STRSLAM-	Ladders, ladder handrails, safety guard, grab bars	0	0.25	G/3	G/2
40	S-STRS-RBAR	S-STRSRBM-	Stair reinforcing	0	0.25	G/3	G/2

Discipline: Structural

Model File Type: Foundation Plan

Walls								
43	S-WALL-CONC	S-WALLCOM-	Concrete walls	0	0.35	Y/2	Y/4
44	S-WALL-LOAD	S-WALLLOM-	Load bearing CMU walls	0	0.35	Y/2	Y/4
45	S-WALL-NONL	S-WALLNOM-	Non-load bearing CMU walls	0	0.35	Y/2	Y/4
46	S-WALL-PCST	S-WALLPCM-	Precast walls	0	0.35	Y/2	Y/4
47	S-WALL-STUD	S-WALLSTM-	Steel stud walls	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Structural Framing Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Beams							
11	S-BEAM-CNTR	S-BEAMCNM-	Beam centerlines	7	0.18	B/5	B/1
12	S-BEAM-PRIM	S-BEAMPRM-	Primary beams, girders	0	0.50	C/4	C/7
13	S-BEAM-SCND	S-BEAMSCM-	Secondary beams, girders	0	0.35	M/6	M/5
Bracing							
16	S-BRAC-LATL	S-BRACLAM-	Lateral bracing	0	0.35	Y/2	Y/4
17	S-BRAC-SHEA	S-BRACSHM-	Shear walls	0	0.35	Y/2	Y/4
18	S-BRAC-VERT	S-BRACVEM-	Vertical bracing	0	0.35	Y/2	Y/4
Deck							
20	S-DECK-FLOR	S-DECKFLM-	Floor deck	0	0.25	G/3	G/2
21	S-DECK-OPEN	S-DECKOPM-	Openings and penetrations	0	0.25	G/3	G/2
22	S-DECK-ROOF	S-DECKROM-	Roof deck	0	0.25	G/3	G/2
Elevators							
25	S-EVTR-FRAM	S-EVTRFRM-	Elevator framing	0	0.35	M/6	M/5
Miscellaneous Metal							
28	S-METL-MISC	S-METLMIM-	Miscellaneous metal	0	0.35	M/6	M/5
Miscellaneous Supports							
30	S-SPPT-MISC	S-SPPTMIM-	Miscellaneous fasteners, anchor bolts, supports	0	0.35	Y/2	Y/4
Open Web Joists							
36	S-JOIS-BRDG	S-JOISBRM-	Bridging	2	0.25	R/1	R/3
37	S-JOIS-PRIM	S-JOISPRM-	Primary joists	0	0.50	C/4	C/7
38	S-JOIS-SCND	S-JOISSCM-	Secondary joists	0	0.35	M/6	M/5
Trusses							
41	S-TRUS-UNIT	S-TRUSUNM-	Trusses	0	0.35	M/6	M/5
Welding							
48	S-WELD-SYMB	S-WELDSYM-	Welding symbols	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Column Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines							
10	S-GRID-DIMS	S-GRIDDIM-	Column grid dimensions	0	0.25	R/1	R/3
11	S-GRID-HORZ	S-GRIDHOM-	Horizontal grid lines	7	0.18	B/5	B/1
12	S-GRID-IDEN	S-GRIDIDM-	Column tags	0	0.25	R/1	R/3
13	S-GRID-VERT	S-GRIDVEM-	Vertical grid lines	7	0.18	B/5	B/1
Columns							
16	S-COLS-CNTR	S-COLSCNM-	Column centerlines	7	0.18	B/5	B/1
17	S-COLS-PRIM	S-COLSPRM-	Primary columns	0	0.35	M/6	M/5
18	S-COLS-SCND	S-COLSSCM-	Secondary columns	0	0.35	Y/2	Y/4
Welding							
48	S-WELD-SYMB	S-WELDSYM-	Welding symbols	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Elevations

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	0.35	Y/2	Y/4
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	0.35	Y/2	Y/4
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
40	S-ELEV-IDEN	S-ELEVIDM-	Component identification numbers	0	0.35	Y/2	Y/4
41	S-ELEV-OTLN	S-ELEVOTM-	Building outlines	0	0.35	M/6	M/5
42	S-ELEV-PATT	S-ELEVPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
44	S-ELEV-SIGN	S-ELEVSIM-	Signage	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Building Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	S-SECT-IDEN	S-SECTIDM-	Component identification numbers	0	0.35	Y/2	Y/4
46	S-SECT-MBND	S-SECTMBM-	Material beyond section cut	0	0.18	B/5	B/1
47	S-SECT-MCUT	S-SECTMCM-	Material cut by section	0	0.35	M/6	M/5
48	S-SECT-PATT	S-SECTPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	0	V	V	V
Detail Information							
9	S-DETL-GENF	S-DETLGEM-	General features (miscellaneous items)	0	0.35	M/6	M/5
10	S-DETL-CMUW	S-DETLCMM-	CMU outline (no patterning)	0	0.35	Y/2	Y/4
15	S-DETL-CONC	S-DETLCOM-	Concrete outline (no patterning)	0	0.35	M/6	M/5
20	S-DETL-FNGR	S-DETLFNM-	Finished grade	0	0.35	Y/2	Y/4
25	S-DETL-MISC	S-DETLMIM-	Joint materials (e.g., felt), vapor barrer, other	V	0.25	R/1	R/3
30	S-DETL-REIN	S-DETLREM-	Rebar, welded wire mesh	V	0.70	W/7	W/0
35	S-DETL-STLS	S-DETLSTM-	Wide flange shapes, plates, open web joists, decking, bolts, nails	0	0.25	G/3	G/2
40	S-DETL-WELD	S-DETLWEM-	Weld symbols	0	0.25	R/1	R/3
45	S-DETL-WOOD	S-DETLWOM-	Wood outline (no patterning)	0	0.35	Y/2	Y/4

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	A-DEMO-HAZW	A-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Floor Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Floor Information							
11	A-FLOR-FIXT	A-FLORFIM-	Floor mounted/Free standing miscellaneous fixtures (not including toilet fixtures)	0	0.25	G/3	G/2
12	A-FLOR-IDEN	A-FLORIDM-	Room name, space identification text	0	0.50	C/4	C/7
13	A-FLOR-LEVL	A-FLORLEM-	Level changes, shafts, ramps, pits, breaks in construction, and depressions	0	0.35	M/6	M/5
14	A-FLOR-NUMB	A-FLORNUM-	Room/space identification number and symbol	0	0.50	C/4	C/7
15	A-FLOR-OTLN	A-FLOROTM-	Floor outline/perimeter/building footprint	0	0.35	M/6	M/5
16	A-FLOR-PATT	A-FLORPAM-	Material patterns (e.g., paving, tile, carpet)	0	0.18	Gr/8	Gr/9
17	A-FLOR-RAIS	A-FLORRAM-	Access (raised) flooring	0	0.25	G/3	G/2
18	A-FLOR-RPRM	A-FLORRPM-	Room perimeter shape (Interior walls)	0	0.35	Y/2	Y/4
19	A-FLOR-SIGN	A-FLORSIM-	Signage	0	0.25	R/1	R/3
20	A-FLOR-SPCL	A-FLORSPM-	Architectural specialties, toilet room accessories (floor mounted only), display cases	0	0.25	G/3	G/2
Columns							
22	A-COLS-ENCL	A-COLSENM-	Column enclosures/fire protection	0	0.50	C/4	C/7
Walls							
23	A-WALL-CAVI	A-WALLCAM-	Cavity wall lines	0	0.35	Y/2	Y/4
24	A-WALL-CNTR	A-WALLCNM-	Wall centerlines	7	0.18	B/5	B/1
25	A-WALL-CWMG	A-WALLCWM-	Curtain wall mullions and glass	0	0.25	R/1	R/3
26	A-WALL-EXTR	A-WALLEXM-	Exterior full height walls	0	0.35	Y/2	Y/4
27	A-WALL-FIRE	A-WALLFIM-	Fire wall designators (patterning)	0	0.35	Y/2	Y/4
28	A-WALL-IDEN	A-WALLIDM-	Wall identification/type text or tags	0	0.50	C/4	C/7
29	A-WALL-INTR	A-WALLINM-	Interior full height walls	0	0.25	G/3	G/2
30	A-WALL-MOVE	A-WALLMOM-	Moveable walls/partitions	0	0.18	B/5	B/1
31	A-WALL-PATT	A-WALLPAM-	Material pattern (e.g., insulation, hatching, and fill)	0	0.18	Gr/8	Gr/9
32	A-WALL-PRHT	A-WALLPRM-	Partial height walls (do not appear on Reflected Ceiling Plan)	0	0.25	R/1	R/3
33	A-WALL-SPCL	A-WALLSPM-	Wall-hung/attached specialties (e.g., fixtures, grab bars, telephone booths, toilet accessories, etc.) see A-FLOR-PFIX for toilet fixtures	0	0.25	R/1	R/3
Openings							
34	A-GLAZ-SILL	A-GLAZSIM-	Window sills	0	0.25	R/1	R/3
35	A-WALL-HEAD	A-WALLHEM-	Door and window headers (appear on Reflected Ceiling Plan)	0	0.25	R/1	R/3
36	A-WALL-JAMB	A-WALLJAM-	Door and window jambs (do not appear on Reflected Ceiling Plan)	0	0.25	R/1	R/3

Discipline: Architectural

Model File Type: Floor Plan

Doors							
37	A-DOOR-FULL	A-DOORFUM-	Full height (to ceiling) door: swing and leaf	0	0.35	M/6	M/5
38	A-DOOR-IDEN	A-DOORIDM-	Door number and symbol, hardware group, etc.	0	0.35	M/6	M/5
39	A-DOOR-PRHT	A-DOORPRM-	Partial height door: swing and leaf	0	0.35	M/6	M/5
40	A-DOOR-SYMB	A-DOORSYM-	Miscellaneous door symbols (e.g., overhead, bifold, pocket, etc.)	0	0.25	R/1	R/3
Windows							
41	A-GLAZ-FULL	A-GLAZFUM-	Full height glazed walls and partitions (see A-WALL-CWMG for curtain walls)	0	0.25	R/1	R/3
42	A-GLAZ-IDEN	A-GLAZIDM-	Window number and symbol	0	0.35	M/6	M/5
43	A-GLAZ-PRHT	A-GLAZPRM-	Windows and partial height glazed partitions	0	0.25	R/1	R/3
Plumbing Fixtures							
44	A-FLOR-PFIX	A-FLORPFM-	Plumbing fixtures (use only when Plumbing Piping Plan: P-SANR-FIXT is not available)	0	0.35	M/6	M/5
45	A-FLOR-TPTN	A-FLORTPM-	Toilet partitions and handicap grab bars	0	0.25	R/1	R/3
Elevators							
46	A-FLOR-EVTR	A-FLOREVM-	Elevator cars and equipment	0	0.35	Y/2	Y/4
Stairs							
47	A-FLOR-STRS	A-FLORSTM-	Stair risers/treads, escalators, ladders	0	0.35	Y/2	Y/4
Railings							
48	A-FLOR-HRAL	A-FLORHRM-	Stair and balcony handrails, guard rails (except handicap grab bars)	0	0.25	R/1	R/3
Woodwork							
59	A-FLOR-CASE	A-FLORCAM-	Casework (manufactured cabinets)	0	0.25	G/3	G/2
60	A-FLOR-WDWK	A-FLORWDM-	Architectural woodwork (field built cabinets and counters)	0	0.25	G/3	G/2
Ceiling Penetrations							
61	A-FLOR-OVHD	A-FLOROVM-	Overhead items (skylights, overhangs etc.)	2	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Reflected Ceiling Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ceiling Information							
11	A-CLNG-ACCS	A-CLNGACM-	Access panels, ceiling penetrations (see also A-FLOR-OVHD in Model File Type: Floor Plan)	0	0.35	M/6	M/5
12	A-CLNG-CONT	A-CLNGCOM-	Ceiling control joints	0	0.35	Y/2	Y/4
13	A-CLNG-GRID	A-CLNGGRM-	Ceiling grid	0	0.25	R/1	R/3
14	A-CLNG-OPEN	A-CLNGOPM-	Ceiling/roof penetrations	0	0.18	Gr/8	Gr/9
15	A-CLNG-PATT	A-CLNGPAM-	Ceiling patterns (e.g., gypsum, plaster, user defined)	0	0.18	Gr/8	Gr/9
16	A-CLNG-TEES	A-CLNGTEM-	Main tees	0	0.18	B/5	B/1
17	A-CLNG-SUSP	A-CLNGSUM-	Suspended elements, ceiling mounted specialties (e.g., clocks, fans, etc.)	0	0.18	B/5	B/1
Lights							
21	A-LITE-CLNG	A-LITECLM-	Ceiling recessed lights (use only when Electrical lighting symbols are unavailable)	0	0.50	C/4	C/7
22	A-LITE-EMER	A-LITEEMM-	Emergency lights (use only when Electrical lighting symbols are unavailable)	0	0.25	R/1	R/3
23	A-LITE-SURF	A-LITESUM-	Surface mounted lights (pendant, etc.)	0	0.50	C/4	C/7
24	A-LITE-WALL	A-LITEWAM-	Wall mounted lights (use only when Electrical lighting symbols are unavailable)	0	0.50	C/4	C/7
Diffusers							
26	A-HVAC-ODFF	A-HVACODM-	Other inlets and outlets (use only when Mechanical HVAC symbols are unavailable) see M-HVAC-ODFF	0	0.25	G/3	G/2
27	A-HVAC-RDFF	A-HVACRDM-	Ceiling return inlets (use only when Mechanical HVAC symbols are unavailable) see M-HVAC-RDFF	0	0.18	B/5	B/1
28	A-HVAC-SDFF	A-HVACSDM-	Ceiling supply diffusers (use only when Mechanical HVAC symbols are unavailable) see M-HVAC-SDFF	0	0.50	C/4	C/7
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Roof Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche (see also A-ROOF-PATT)	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Roof Information							
11	A-ROOF-CRTS	A-ROOFCRM-	Crickets flow arrows flow info	0	0.35	Y/2	Y/4
12	A-ROOF-DRNS	A-ROOFDRM-	Roof drains	0	0.25	R/1	R/3
13	A-ROOF-EDGE	A-ROOFEDM-	Roof internal gutters	0	0.35	Y/2	Y/4
14	A-ROOF-EXPN	A-ROOFEXM-	Expansion joints	0	0.35	Y/2	Y/4
15	A-ROOF-HRAL	A-ROOFHRM-	Stair handrails, nosings, guard rails	0	0.25	R/1	R/3
16	A-ROOF-LEVL	A-ROFFLEM-	Level changes	0	0.18	B/5	B/1
17	A-ROOF-OTLN	A-ROOFOTM-	Roof perimeter/edge, roof geometry	0	0.50	C/4	C/7
18	A-ROOF-PATT	A-ROOFPAM-	Roof surface patterns, hatching	0	0.18	Gr/8	Gr/9
19	A-ROOF-SPCL	A-ROOFSPM-	Roof specialties, accessories, access hatches	0	0.25	G/3	G/2
20	A-ROOF-STRS	A-ROOFSTM-	Stair risers/treads, ladders	0	0.35	Y/2	Y/4
21	A-ROOF-WALK	A-ROOFWAM-	Roof walkways	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Elevations (Exterior and Interior)

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
37	A-ELEV-CASE	A-ELEVCAM-	Wall-mounted casework	0	0.25	G/3	G/2
38	A-ELEV-FIXT	A-ELEVFIM-	Miscellaneous fixtures	0	0.35	Y/2	Y/4
39	A-ELEV-FNSH	A-ELEVFNM-	Finishes, woodwork, trim	0	0.25	G/3	G/2
40	A-ELEV-IDEN	A-ELEVIDM-	Component identification numbers	0	0.35	Y/2	Y/4
41	A-ELEV-OTLN	A-ELEVOTM-	Building outlines	0	0.35	M/6	M/5
42	A-ELEV-PATT	A-ELEVPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
43	A-ELEV-PFIX	A-ELEVPFM-	Plumbing fixtures	0	0.35	M/6	M/5
44	A-ELEV-SIGN	A-ELEVSIM-	Signage	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Finish Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Furniture							
11	A-FURN-PATT	A-FURNPAM-	Finish patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Building Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	A-SECT-IDEN	A-SECTIDM-	Component identification numbers	0	0.35	Y/2	Y/4
46	A-SECT-MBND	A-SECTMBM-	Material beyond section cut	0	0.18	B/5	B/1
47	A-SECT-MCUT	A-SECTMCM-	Material cut by section	0	0.50	C/4	C/7
48	A-SECT-PATT	A-SECTPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	A-DETL-GENF	A-DETLGEM-	General features (miscellaneous items)	0	V	V	V
12	A-DETL-BLCK	A-DETLBLM-	Blocking, furring and spacers	0	0.18	B/5	B/1
15	A-DETL-CABS	A-DETLCAM-	Cabinets	0	0.35	Y/2	Y/4
16	A-DETL-CALK	A-DETLCLM-	Caulking and sealant	0	0.18	Gr/8	Gr/9
17	A-DETL-CEIL	A-DETLCEM-	Ceiling materials	0	0.35	M/6	M/5
24	A-DETL-EXTR	A-DETLEXM-	Extrusions and formed shapes	0	0.25	R/1	R/3
25	A-DETL-EXWL	A-DETLEWM-	Exterior wall materials	0	0.35	M/6	M/5
27	A-DETL-FAST	A-DETLFAM-	Fastener	0	0.18	B/5	B/1
30	A-DETL-FLOR	A-DETLFLM-	Floor materials	0	0.35	Y/2	Y/4
31	A-DETL-FLSH	A-DETLFSM-	Flashing	0	0.50	C/4	C/2
33	A-DETL-GLAZ	A-DETLGLM-	Glazing	0	0.18	B/5	B/1
35	A-DETL-GRLS	A-DETLGRM-	Grilles and louvers	0	0.25	G/3	G/2
36	A-DETL-HDWR	A-DETLHDM-	Hardware	0	0.35	M/6	M/5
37	A-DETL-INSL	A-DETLINM-	Insulation	0	0.18	Gr/8	Gr/9
38	A-DETL-ITWL	A-DETLITM-	Interior wall materials	0	0.18	B/5	B/1
40	A-DETL-MASY	A-DETLMAM-	Masonry	0	0.25	G/3	G/2
44	A-DETL-PIPE	A-DETLPIM-	Piping	0	0.35	M/6	M/5
46	A-DETL-ROOF	A-DETLROM-	Roof materials	0	0.25	G/3	G/2
49	A-DETL-STRC	A-DETLSTM-	Structural features	0	0.25	R/1	R/3
53	A-DETL-TRIM	A-DETLTRM-	Trim	0	0.25	G/3	G/2

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Equipment Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Area Information							
11	A-EQPM-ACCS	A-EQPMACM-	Equipment access	0	0.35	M/6	M/5
12	A-EQPM-CLNG	A-EQPMCLM-	Ceiling mounted or suspended equipment	0	0.35	M/6	M/5
13	A-EQPM-FIXD	A-EQPMFIM-	Fixed equipment	0	0.50	C/4	C/7
14	A-EQPM-IDEN	A-EQPMIDM-	Equipment identification numbers	0	0.35	M/6	M/5
15	A-EQPM-MOVE	A-EQPMMOM-	Moveable equipment	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Life Safety Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Life Safety							
11	A-LSFT-EGRE	A-LSFTEGM-	Egress requirements designator	0	0.25	R/1	R/3
12	A-LSFT-EQPM	A-LSFTEQM-	Fire equipment (fire extinguishers)	0	0.18	B/5	B/1
13	A-LSFT-TRVL	A-LSFTTRM-	Travel distances	0	0.35	M/6	M/5
14	A-LSFT-WALL	A-LSFTWAM-	Wall fire ratings (see also A-WALL-FIRE on Model File Type: Floor Plan)	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Area Calculations/Occupancy Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Area Information							
9	A-AREA-IDEN	A-AREAIDM-	Room numbers, tenant identifications, area calculations	0	0.35	Y/2	Y/4
10	A-AREA-LINE	A-AREALIM-	Architectural area calculation boundary lines	0	0.50	C/4	C/7
11	A-AREA-OCCP	A-AREAOCM-	Occupant or employee names	0	0.35	Y/2	Y/4
12	A-AREA-PATT	A-AREAPAM-	Area cross hatching	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	I-DEMO-HAZW	I-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Furniture Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Equipment							
11	I-EQPM-ACCS	I-EQPMACM-	Equipment access	2	0.18	Gr/8	Gr/9
12	I-EQPM-CHLD	I-EQPMCHM-	Child development (play toys, teaching rugs, play forms)	0	0.35	Y/2	Y/4
13	I-EQPM-CLNG	I-EQPMCLM-	Ceiling mounted and suspended equipment	0	0.25	G/3	G/2
14	I-EQPM-COPY	I-EQPMCOM-	Copiers, fax machines, office equipment	0	0.35	Y/2	Y/4
15	I-EQPM-FIXD	I-EQPMFIM-	Fixed equipment	0	0.18	B/5	B/1
16	I-EQPM-IDEN	I-EQPMIDM-	Equipment identification numbers	0	0.25	R/1	R/3
17	I-EQPM-MOVE	I-EQPMMOM-	Moveable equipment	2	0.18	B/5	B/1
18	I-EQPM-NICN	I-EQPMNIM-	Not in contract equipment	1	0.18	Gr/8	Gr/9
19	I-EQPM-STOR	I-EQPMSTM-	High density storage, specialty storage	0	0.35	Y/2	Y/4
Free Standing Furniture							
25	I-FURN-ACCS	I-FURNACM-	Accessories (vestibule matts, partitions, draperies, clocks, trash cans, lecturns, lamps, etc.)	0	0.25	R/1	R/3
26	I-FURN-ADPC	I-FURNADM-	Automated Data Processing Components	0	0.35	Y/2	Y/4
27	I-FURN-ARTW	I-FURNARM-	Artwork	0	0.35	Y/2	Y/4
28	I-FURN-CASE	I-FURNCAM-	Casegoods (desks, credenzas, beds, dressers, nightstands, wardrobes, etc.)	0	0.35	M/6	M/5
29	I-FURN-FLOR	I-FURNFLM-	Flooring (carpet, rugs, etc.)	0	0.35	Y/2	Y/4
30	I-FURN-FREE	I-FURNFRM-	Free-standing desks and tables (conference, classroom, coffee, end, etc.)	0	0.35	M/6	M/5
31	I-FURN-IDEN	I-FURNIDM-	Furniture code identification	0	0.25	G/3	G/2
32	I-FURN-MEDI	I-FURNMEM-	Medical (exam beds, dental chairs, etc.)	0	0.35	Y/2	Y/4
33	I-FURN-MISC	I-FURNMIM-	Miscellaneous furniture	0	0.35	Y/2	Y/4
34	I-FURN-PLNT	I-FURNPLM-	Plants	0	0.25	R/1	R/3
35	I-FURN-SEAT	I-FURNSEM-	Chairs, sofas, etc.	0	0.35	Y/2	Y/4
36	I-FURN-STOR	I-FURNSTM-	File cabinets, high density storage, shelving, storage cabinets	0	0.35	Y/2	Y/4
Modules							
40	I-FURN-GRID	I-FURNGRM-	Planning grid/modular outline	0	0.50	C/4	C/7
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: System Furniture Plan/Workstation Typical

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Systems Furniture							
11	I-SYST-FURN	I-SYSTFUM-	Furniture	0	0.35	Y/2	Y/4
12	I-SYST-IDEN	I-SYSTIDM-	Code identification	0	0.25	R/1	R/3
13	I-SYST-LITE	I-SYSTLIM-	Lighting components	0	0.50	C/4	C/7
14	I-SYST-PATT	I-SYSTPAM-	Patterns	0	0.18	Gr/8	Gr/9
15	I-SYST-PNLS	I-SYSTPNM-	Panels	0	0.35	Y/2	Y/4
16	I-SYST-POWR	I-SYSTPOM-	Power, communication components	0	0.50	C/4	C/7
17	I-SYST-STOR	I-SYSTSTM-	Storage components	0	0.35	Y/2	Y/4
18	I-SYST-WALL	I-SYSTWAM-	Systems furniture partition walls	0	0.35	Y/2	Y/4
19	I-SYST-WKSF	I-SYSTWKM-	Work surface components	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Signage Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Signage							
46	I-FLOR-SIGN	I-FLORSIM-	Directory signage	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Interior Elevations

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
37	I-ELEV-CASE	I-ELEVCAM-	Wall mounted casework	0	0.35	Y/2	Y/4
38	I-ELEV-FIXT	I-ELEVFIM-	Miscellaneous fixtures	0	0.25	G/3	G/2
39	I-ELEV-FNSH	I-ELEVFNM-	Finishes, woodwork and trim	0	0.35	Y/2	Y/4
40	I-ELEV-IDEN	I-ELEVIDM-	Component identification numbers	0	0.18	B/5	B/1
42	I-ELEV-PATT	I-ELEVPAM-	Textures and hatch patterns	0	0.25	R/1	R/3
43	I-ELEV-PFIX	I-ELEVPFM-	Plumbing fixtures in elevation	0	0.25	R/1	R/3
44	I-ELEV-SIGN	I-ELEVSIM-	Signage	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	0	V	V	V
Detail Information							
9	I-DETL-GENF	I-DETLGEM-	General features	0	0.35	Y/2	Y/4
12	I-DETL-SYST	I-DETLSYM-	Systems furniture/pre-wired workstations	0	0.35	Y/2	Y/4
13	I-DETL-MISC	I-DETLMIM-	Miscellaneous (e.g., window treatments, accessories, etc.)	0	0.25	G/3	G/2
22	I-DETL-EQPM	I-DETLEQM-	Equipment	0	0.35	M/6	M/5
32	I-DETL-FURN	I-DETLFUM-	Freestanding furniture	0	0.35	Y/2	Y/4
53	I-DETL-ADAG	I-DETLADM-	ADA standards and guidelines	0	0.35	Y/2	Y/4
59	I-DETL-CASE	I-DETLCAM-	Millwork/casework/trim	0	0.35	Y/2	Y/4
60	I-DETL-SIGN	I-DETLSIM-	Interior and exterior signage	0	0.25	R/1	R/3

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	QYDEMO-HAZW	QY----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Security Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Access Control							
11	QYACCC-EXTR	QYACCCEXM-	Exterior mounted access control devices	0	0.25	G/3	G/2
12	QYACCC-PANL	QYACCCPAM-	Access control unit/panel	0	0.25	G/3	G/2
13	QYACCC-WALL	QYACCCWAM-	Wall mounted (interior) access control devices	0	0.25	G/3	G/2
Annunciation							
14	QYANCN-PANL	QYANCNPAM-	Annunciation equipment control unit/panel	0	0.25	G/3	G/2
15	QYANCN-RESN	QYANCNREM-	Remote station	0	0.25	G/3	G/2
Barriers							
17	QYBARR-FENC	QYBARRFEM-	Fences/gates	0	0.35	M/6	M/5
18	QYBARR-SENS	QYBARRSEM-	Sensors	0	0.25	G/3	G/2
19	QYBARR-WALL	QYBARRWAM-	Walls	0	0.35	M/6	M/5
Communications							
21	QYCOMM-CLNG	QYCOMMCLM-	Ceiling mounted communication equipment	0	0.25	G/3	G/2
22	QYCOMM-INTC	QYCOMMINM-	Intercoms/speakers	0	0.25	G/3	G/2
23	QYCOMM-PANL	QYCOMMPAM-	Communication panel	0	0.25	G/3	G/2
24	QYCOMM-WALL	QYCOMMWAM-	Wall mounted communication equipment	0	0.25	G/3	G/2
Switches/Contacts							
26	QYSWCH-FLSH	QYSWCHFLM-	Flush mounted switches/contacts	0	0.25	G/3	G/2
27	QYSWCH-SURF	QYSWCHSUM-	Surface mounted switches/contacts	0	0.25	G/3	G/2
Sensors							
30	QYSENS-BURD	QYSENSBUM-	Buried sensor	2	0.25	G/3	G/2
31	QYSENS-CLNG	QYSENSCLM-	Ceiling mounted sensor	0	0.25	G/3	G/2
32	QYSENS-FLOR	QYSENSFLM-	Floor mounted sensor	0	0.25	G/3	G/2
33	QYSENS-GLAS	QYSENSGLM-	Glass/foil mounted sensor	0	0.25	G/3	G/2
34	QYSENS-PANL	QYSENSPAM-	Sensor control unit	0	0.25	G/3	G/2
35	QYSENS-WALL	QYSENSWAM-	Wall mounted sensor	0	0.25	G/3	G/2
Assessment/Closed Circuit Television							
37	QYCCTV-CLNG	QYCCTVCLM-	Ceiling mounted CCTV	0	0.25	G/3	G/2
38	QYCCTV-WALL	QYCCTVWAM-	Wall mounted CCTV	0	0.25	G/3	G/2
Security Dedicated Lighting							
40	QYLITE-CLNG	QYLITECLM-	Ceiling mounted security lighting	0	0.25	G/3	G/2
41	QYLITE-POLE	QYLITEPOM-	Pole mounted security lighting	0	0.25	G/3	G/2
42	QYLITE-WALL	QYLITEWAM-	Wall mounted security lighting	0	0.25	G/3	G/2

Discipline: Equipment - Security Systems

Model File Type: Security Plan

Locking Devices							
44	QYLOCK-ELEC	QYLOCKELM-	Electric device	0	0.25	G/3	G/2
45	QYLOCK-MANL	QYLOCKMAM-	Manual device	0	0.25	G/3	G/2
Security Wiring/Circuits							
47	QYWIRE-SYST	QYWIRESYM-	Security wiring/circuits	0	0.18	B/5	B/1
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Elevations

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
38	QYELEV-FIXT	QYELEVFIM-	Miscellaneous fixtures	0	0.35	Y/2	Y/4
40	QYELEV-IDEN	QYELEVIDM-	Component identification numbers	0	0.35	Y/2	Y/4
41	QYELEV-OTLN	QYELEVOTM-	Building outlines	0	0.35	M/6	M/5
42	QYELEV-PATT	QYELEVPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
44	QYELEV-SIGN	QYELEVSIM-	Signage	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Access Control							
11	QYACCC-EXTR	QYACCCEXM-	Exterior mounted access control devices	0	0.25	G/3	G/2
12	QYACCC-PANL	QYACCCPAM-	Access control unit/panel	0	0.25	G/3	G/2
Annunciation							
14	QYANCN-PANL	QYANCNPAM-	Annunciation equipment control unit/panel	0	0.25	G/3	G/2
15	QYANCN-RESN	QYANCNREM-	Remote station	0	0.25	G/3	G/2
Barriers							
18	QYBARR-SENS	QYBARRSEM-	Sensors	0	0.25	G/3	G/2
Communications							
22	QYCOMM-INTC	QYCOMMINM-	Intercoms/speakers	0	0.25	G/3	G/2
23	QYCOMM-PANL	QYCOMMPAM-	Communication panel	0	0.25	G/3	G/2
Sensors							
34	QYSENS-PANL	QYSENSPAM-	Sensor control unit	0	0.25	G/3	G/2
Security Dedicated Lighting							
40	QYLITE-CLNG	QYLITECLM-	Ceiling mounted security lighting	0	0.25	G/3	G/2
41	QYLITE-POLE	QYLITEPOM-	Pole mounted security lighting	0	0.25	G/3	G/2
42	QYLITE-WALL	QYLITEWAM-	Wall mounted security lighting	0	0.25	G/3	G/2
Locking Devices							
44	QYLOCK-ELEC	QYLOCKELM-	Electric device	0	0.25	G/3	G/2
Security Wiring/Circuits							
47	QYWIRE-SYST	QYWIRESYM-	Security wiring/circuits	0	0.18	B/5	B/1
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	F-DEMO-HAZW	F-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Sprinkler Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
CO2 Sprinkler System							
11	F-CO2S-EQPM	F-CO2SEQM-	Equipment	0	0.35	M/6	M/5
12	F-CO2S-PIPE	F-CO2SPIM-	CO2 piping or CO2 discharge nozzle piping	0	0.35	Y/2	Y/4
Aqueous Film Forming Foam System							
14	F-AFFF-EQPM	F-AFFFEQM-	Equipment	0	0.35	M/6	M/5
15	F-AFFF-PIPE	F-AFFFPIM-	Piping	0	0.35	Y/2	Y/4
Halon System							
17	F-HALN-EQPM	F-HALNEQM-	Halon equipment	0	0.25	R/1	R/3
18	F-HALN-PIPE	F-HALNPIM-	Halon piping	0	0.25	R/1	R/3
Inert Gas							
20	F-IGAS-EQPM	F-IGASEQM-	Inert gas equipment	0	0.25	G/3	G/2
21	F-IGAS-PIPE	F-IGASPIM-	Inert gas piping	0	0.25	G/3	G/2
Sprinkler System							
23	F-SPRN-COMB	F-SPRNCLM-	Combination system	0	0.25	R/1	R/3
24	F-SPRN-OTHR	F-SPRNOTM-	Sprinkler - other	0	0.25	R/1	R/3
27	F-SPRN-PEND	F-SPRNPEM-	Sprinkler - pendant	0	0.25	G/3	G/2
25	F-SPRN-PIPE	F-SPRNPIM-	Sprinkler piping	0	0.35	Y/2	Y/4
28	F-SPRN-UPRT	F-SPRNUPM-	Sprinkler - upright	0	0.25	G/3	G/2
Fire Protection/Suppression System							
30	F-PROT-EXTN	F-PROTEXM-	Equipment (fire extinguisher)	0	0.35	Y/2	Y/4
31	F-PROT-HOSE	F-PROTHOM-	Equipment (fire hose cabinet)	0	0.35	Y/2	Y/4
Fire Alarm System							
33	F-ALRM-DTCT	F-ALRMDTM-	Smoke detectors, heat sensors	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
52	F-STAT-FUTR	F-------M-F	Future work	7	0.35	Y/2	Y/4
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
54	F-STAT-NEWW	F-------M-N	New work	0	0.50	C/4	C/7
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
CO2 Sprinkler System							
11	F-CO2S-EQPM	F-CO2SEQM-	Equipment	0	0.35	M/6	M/5
12	F-CO2S-PIPE	F-CO2SPIM-	CO2 piping or CO2 discharge nozzle piping	0	0.35	Y/2	Y/4
Aqueous Film Forming Foam System							
14	F-AFFF-EQPM	F-AFFFEQM-	Equipment	0	0.35	M/6	M/5
15	F-AFFF-PIPE	F-AFFFPIM-	Piping	0	0.35	Y/2	Y/4
Halon System							
17	F-HALN-EQPM	F-HALNEQM-	Halon equipment	0	0.25	R/1	R/3
18	F-HALN-PIPE	F-HALNPIM-	Halon piping	0	0.25	R/1	R/3
Inert Gas							
20	F-IGAS-EQPM	F-IGASEQM-	Inert gas equipment	0	0.25	G/3	G/2
21	F-IGAS-PIPE	F-IGASPIM-	Inert gas piping	0	0.25	G/3	G/2
Sprinkler System							
23	F-SPRN-COMB	F-SPRNCLM-	Combination system	0	0.25	R/1	R/3
24	F-SPRN-OTHR	F-SPRNOTM-	Sprinkler - other	0	0.25	R/1	R/3
27	F-SPRN-PEND	F-SPRNPEM-	Sprinkler - pendant	0	0.25	G/3	G/2
25	F-SPRN-PIPE	F-SPRNPIM-	Sprinkler piping	0	0.35	Y/2	Y/4
28	F-SPRN-UPRT	F-SPRNUPM-	Sprinkler - upright	0	0.25	G/3	G/2
Fire Protection/Suppression System							
30	F-PROT-EXTN	F-PROTEXM-	Equipment (fire extinguishers)	0	0.35	Y/2	Y/4
31	F-PROT-HOSE	F-PROTHOM-	Equipment (fire hose cabinets)	0	0.35	Y/2	Y/4
Fire Alarm System							
33	F-ALRM-DTCT	F-ALRMDTM-	Smoke detectors, heat sensors	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
52	F-STAT-FUTR	F-------M-F	Future work	7	0.35	Y/2	Y/4
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
54	F-STAT-NEWW	F-------M-N	New work	0	0.50	C/4	C/7
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	P-DEMO-HAZW	P-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Piping Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Domestic Water Piping System							
11	P-DOMW-CPIP	P-DOMWCPM-	Domestic cold water piping (includes fittings, valves, risers, etc.)	0	0.25	G/3	G/2
12	P-DOMW-EQPM	P-DOMWEQM-	Hot and cold water equipment	0	0.50	C/4	C/7
13	P-DOMW-FPIP	P-DOMWFPM-	Domestic filtered water piping	0	0.25	G/3	G/2
14	P-DOMW-HPIP	P-DOMWHPM-	Domestic hot water piping (includes fittings, valves, risers, etc.)	0	0.25	R/1	R/3
15	P-DOMW-RISR	P-DOMWRIM-	Domestic hot and cold water risers	2	0.25	G/3	G/2
16	P-DOMW-RPIP	P-DOMWRPM-	Domestic hot water recirculation piping	11	0.25	R/1	R/3
Sanitary Drainage Piping							
21	P-SANR-FIXT	P-SANRFIM-	Plumbing fixtures	0	0.35	M/6	M/5
22	P-SANR-EQPM	P-SANREQM-	Equipment (sand/oil/water separators)	0	0.50	C/4	C/7
23	P-SANR-FLDR	P-SANRFLM-	Floor drains and cleanouts	0	0.35	M/6	M/5
24	P-SANR-PIPE	P-SANRPIM-	Piping	0	0.35	M/6	M/5
25	P-SANR-RISR	P-SANRRIM-	Sanitary risers	2	0.35	M/6	M/5
26	P-SANR-VENT	P-SANRVEM-	Vent piping	2	0.35	M/6	M/5
Storm Drainage Piping							
31	P-STRM-PIPE	P-STRMPIM-	Storm drain piping	0	0.35	Y/2	Y/4
32	P-STRM-RFDR	P-STRMRFM-	Roof drains	0	0.35	Y/2	Y/4
33	P-STRM-RISR	P-STRMRIM-	Storm drain risers	2	0.35	Y/2	Y/4
34	P-STRM-RPIP	P-STRMRPM-	Roof drain piping	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
52	P-STAT-FUTR	P-------M-F	Future work	7	0.35	Y/2	Y/4
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
54	P-STAT-NEWW	P-------M-N	New work	0	0.50	C/4	C/7
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Domestic Water Piping System							
11	P-DOMW-CPIP	P-DOMWCPM-	Domestic cold water piping (includes fittings, valves, risers, etc.)	0	0.25	G/3	G/2
12	P-DOMW-EQPM	P-DOMWEQM-	Hot and cold water equipment	0	0.50	C/4	C/7
13	P-DOMW-FPIP	P-DOMWFPM-	Domestic filtered water piping	0	0.25	G/3	G/2
14	P-DOMW-HPIP	P-DOMWHPM-	Domestic hot water piping (includes fittings, valves, risers, etc.)	0	0.25	R/1	R/3
15	P-DOMW-RISR	P-DOMWRIM-	Domestic hot and cold water risers	0	0.25	G/3	G/2
16	P-DOMW-RPIP	P-DOMWRPM-	Domestic hot water recirculation piping	11	0.25	R/1	R/3
Sanitary Drainage Piping							
21	P-SANR-FIXT	P-SANRFIM-	Plumbing fixtures	0	0.35	M/6	M/5
22	P-SANR-EQPM	P-SANREQM-	Equipment (sand/oil/water separators)	0	0.50	C/4	C/7
23	P-SANR-FLDR	P-SANRFLM-	Floor drains and cleanouts	0	0.35	M/6	M/5
24	P-SANR-PIPE	P-SANRPIM-	Piping	0	0.35	M/6	M/5
25	P-SANR-RISR	P-SANRRIM-	Sanitary risers	0	0.35	M/6	M/5
26	P-SANR-VENT	P-SANRVEM-	Vent piping	2	0.35	M/6	M/5
Storm Drainage Piping							
31	P-STRM-PIPE	P-STRMPIM-	Storm drain piping	0	0.35	Y/2	Y/4
32	P-STRM-RFDR	P-STRMRFM-	Roof drains	0	0.35	Y/2	Y/4
33	P-STRM-RISR	P-STRMRIM-	Storm drain risers	0	0.35	Y/2	Y/4
34	P-STRM-RPIP	P-STRMRPM-	Roof drain piping	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
52	P-STAT-FUTR	P-------M-F	Future work	7	0.35	Y/2	Y/4
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
54	P-STAT-NEWW	P-------M-N	New work	0	0.50	C/4	C/7
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	M-DEMO-HAZW	M-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: HVAC Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ductwork and Equipment							
11	M-HVAC-DOOR	M-HVACDOM-	Equipment access doors	0	0.25	G/3	G/2
12	M-HVAC-EQPM	M-HVACEQM-	Air system equipment	0	0.35	Y/2	Y/4
13	M-HVAC-OTHR	M-HVACOTM-	Other ductwork	0	0.35	M/6	M/5
14	M-HVAC-RETN	M-HVACREM-	Return ductwork	0	0.35	M/6	M/5
15	M-HVAC-SUPP	M-HVACSUM-	Supply ductwork	0	0.35	Y/2	Y/4
Diffusers							
17	M-HVAC-CDFF	M-HVACCDM-	Ceiling diffusers	0	0.35	M/6	M/5
18	M-HVAC-IDEN	M-HVACIDM-	Diffuser tags	0	0.35	M/6	M/5
19	M-HVAC-ODFF	M-HVACODM-	Other diffusers	0	0.35	M/6	M/5
20	M-HVAC-RDFF	M-HVACRDM-	Return air diffusers	0	0.35	M/6	M/5
21	M-HVAC-SDFF	M-HVACSDM-	Supply diffusers	0	0.35	M/6	M/5
Exhaust							
23	M-EXHS-CDFF	M-EXHSCDM-	Exhaust air ceiling diffusers	0	0.35	M/6	M/5
24	M-EXHS-DUCT	M-EXHSDUM-	Ductwork	0	0.35	M/6	M/5
25	M-EXHS-EQPM	M-EXHSEQM-	Equipment	0	0.35	Y/2	Y/4
Exhaust Makeup							
28	M-MKUP-CDFF	M-MKUPCDM-	Exhaust makeup air ceiling diffusers	0	0.35	M/6	M/5
29	M-MKUP-DUCT	M-MKUPDUM-	Ductwork	0	0.35	M/6	M/5
30	M-MKUP-EQPM	M-MKUPEQM-	Equipment	0	0.35	Y/2	Y/4
Industrial Exhaust							
33	M-INEX-CDFF	M-INEXCDM-	Industrial exhaust air ceiling diffusers	0	0.35	M/6	M/5
34	M-INEX-DUCT	M-INEXDUM-	Ductwork	0	0.35	M/6	M/5
35	M-INEX-EQPM	M-INEXEQM-	Equipment	0	0.35	Y/2	Y/4
Controls							
38	M-CONT-INST	M-CONTINM-	Controls, instrumentation, sensors, and equipment	0	0.35	Y/2	Y/4
39	M-CONT-THER	M-CONTTHM-	Thermostats	0	0.25	R/1	R/3
40	M-CONT-WIRE	M-CONTWIM-	Low voltage wiring	0	0.25	G/3	G/2

Discipline: Mechanical

Model File Type: HVAC Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Piping Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Chilled Water System							
11	M-CWTR-EQPM	M-CWTREQM-	Equipment	0	0.35	M/6	M/5
12	M-CWTR-PIPE	M-CWTRPIM-	Piping (includes fittings, valves, instrumentation)	0	0.25	G/3	G/2
Hot Water Heating System							
15	M-HWTR-EQPM	M-HWTREQM-	Equipment	0	0.35	Y/2	Y/4
16	M-HWTR-PIPE	M-HWTRPIM-	Piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
Dual Temperature System							
18	M-DUAL-EQPM	M-DUALEQM-	Equipment	0	0.35	Y/2	Y/4
19	M-DUAL-PIPE	M-DUALPIM-	Piping (includes fittings, valves, instrumentation)	0	0.25	R/1	R/3
Steam System							
21	M-STEM-CONP	M-STEMCOM-	Condensate piping (includes fittings, valves, instrumentation)	0	0.18	B/5	B/1
22	M-STEM-EQPM	M-STEMEQM-	Equipment	0	0.35	Y/2	Y/4
23	M-STEM-HPIP	M-STEMHPM-	High pressure piping (includes fittings, valves, instrumentation)	0	0.25	R/1	R/3
24	M-STEM-LPIP	M-STEMLPM-	Low pressure piping (includes fittings, valves, instrumentation)	0	0.25	G/3	G/2
25	M-STEM-MPIP	M-STEMMPM-	Medium pressure piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
Refrigeration System							
27	M-REFG-EQPM	M-REFGEQM-	Equipment	0	0.35	Y/2	Y/4
28	M-REFG-PIPE	M-REFGPIM-	Piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
Energy Recovery System							
30	M-RCOV-EQPM	M-RCOVEQM-	Equipment	0	0.35	Y/2	Y/4
31	M-RCOV-PIPE	M-RCOVPIM-	Piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
Fuel Systems							
33	M-FUEL-EQPM	M-FUELEQM-	Equipment	0	0.35	Y/2	Y/4
34	M-FUEL-GGEP	M-FUELGGM-	Fuel gas general piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
35	M-FUEL-GPRP	M-FUELGPM-	Fuel gas process piping (includes fittings, valves, instrumentation)	0	0.35	M/6	M/5
36	M-FUEL-OGEP	M-FUELOGM-	Fuel oil general piping (includes fittings, valves, instrumentation)	0	0.25	G/3	G/2
37	M-FUEL-OPRP	M-FUELOPM-	Fuel oil process piping (includes fittings, valves, instrumentation)	0	0.25	G/3	G/2
Controls							
38	M-CONT-INST	M-CONTINM-	Controls, instrumentation, sensors, and equipment	0	0.35	Y/2	Y/4
39	M-CONT-THER	M-CONTTHM-	Thermostats	0	0.25	R/1	R/3
40	M-CONT-WIRE	M-CONTWIM-	Low Voltage Wiring	0	0.25	G/3	G/2

Discipline: Mechanical

Model File Type: Piping Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Specialty Piping and Equipment

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Brine Systems							
11	M-BRIN-EQPM	M-BRINEQM-	Brine system equipment	0	0.35	M/6	M/5
12	M-BRIN-PIPE	M-BRINPIM-	Brine system piping	0	0.35	Y/2	Y/4
Dental Piping							
13	M-DENT-EQPM	M-DENTEQM-	Equipment	0	0.35	M/6	M/5
14	M-DENT-PIPE	M-DENTPIM-	Piping	0	0.35	Y/2	Y/4
Fuel Distribution Piping							
15	M-FUEL-EQPM	M-FUELEQM-	Fuel distribution equipment	0	0.35	M/6	M/5
16	M-FUEL-RPIP	M-FUELRPM-	Fuel distribution return piping	0	0.35	Y/2	Y/4
17	M-FUEL-SPIP	M-FUELSPM-	Fuel distribution supply piping	0	0.35	Y/2	Y/4
High Pressure Compressed Air							
18	M-CMPH-EQPM	M-CMPHEQM-	High pressure equipment	0	0.35	M/6	M/5
19	M-CMPH-PIPE	M-CMPHPIM-	Governor or high pressure brake lines	0	0.35	Y/2	Y/4
Low Pressure Compressed Air							
20	M-CMPL-EQPM	M-CMPLEQM-	Shop and control air equipment	0	0.35	M/6	M/5
21	M-CMPL-PIPE	M-CMPLPIM-	Shop and control air piping	0	0.35	Y/2	Y/4
Hydraulic Systems							
22	M-HYDR-EQPM	M-HYDREQM-	Hydraulic system equipment	0	0.35	M/6	M/5
23	M-HYDR-RPIP	M-HYDRRPM-	Hydraulic system return piping	0	0.35	Y/2	Y/4
24	M-HYDR-SPIP	M-HYDRSPM-	Hydraulic system supply piping	0	0.35	Y/2	Y/4
Industrial Waste Piping							
25	M-ACID-EQPM	M-ACIDEQM-	Acid, alkaline, and oil waste equipment	0	0.35	M/6	M/5
26	M-ACID-PIPE	M-ACIDPIM-	Acid, alkaline, and oil waste piping	0	0.35	Y/2	Y/4
27	M-ACID-VENT	M-ACIDVEM-	Acid, alkaline, and oil waste vent piping	2	0.35	Y/2	Y/4
Insulating (Transformer) Oil							
28	M-INSL-EQPM	M-INSLEQM-	Insulating oil equipment	0	0.35	M/6	M/5
29	M-INSL-RPIP	M-INSLRPM-	Insulating oil return piping	0	0.35	Y/2	Y/4
30	M-INSL-SPIP	M-INSLSPM-	Insulating oil supply piping	0	0.35	Y/2	Y/4
Laboratory Piping							
31	M-LGAS-EQPM	M-LGASEQM-	Equipment	0	0.35	M/6	M/5
32	M-LGAS-PIPE	M-LGASPIM-	Piping	0	0.35	Y/2	Y/4
Lubrication Oil							
33	M-LUBE-EQPM	M-LUBEEQM-	Lubrication oil equipment	0	0.35	M/6	M/5
34	M-LUBE-RPIP	M-LUBERPM-	Lubrication oil return piping	0	0.35	Y/2	Y/4
35	M-LUBE-SPIP	M-LUBESPM-	Lubrication oil supply piping	0	0.35	Y/2	Y/4

Discipline: Mechanical

Model File Type: Specialty Piping and Equipment

Medical Gas Piping								
36	M-MDGS-EQPM	M-MDGSEQM-	Equipment	0	0.35	M/6	M/5
37	M-MDGS-PIPE	M-MDGSPIM-	Piping	0	0.35	Y/2	Y/4
Natural Gas (or Liquid Petroleum) Piping							
38	M-NGAS-EQPM	M-NGASEQM-	Equipment	0	0.35	M/6	M/5
39	M-NGAS-PIPE	M-NGASPIM-	Piping	0	0.35	Y/2	Y/4
Process Piping							
40	M-PROC-EQPM	M-PROCEQM-	Equipment	0	0.35	M/6	M/5
41	M-PROC-PIPE	M-PROCPIM-	Process piping	0	0.35	Y/2	Y/4
42	M-PROC-RPIP	M-PROCRPM-	Return piping	0	0.35	Y/2	Y/4
43	M-PROC-SPIP	M-PROCSPM-	Supply piping	0	0.35	Y/2	Y/4
Raw Water Piping							
44	M-RWTR-EQPM	M-RWTREQM-	Raw water equipment	0	0.35	M/6	M/5
45	M-RWTR-PIPE	M-RWTRPIM-	Raw water piping	0	0.35	Y/2	Y/4
Station Drainage							
46	M-STDN-EQPM	M-STDNEQM-	Station drainage equipment	0	0.35	M/6	M/5
47	M-STDN-PIPE	M-STDNPIM-	Station drainage piping	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Machine Design

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Machine Design							
11	M-MACH-BASE	M-MACHBAM-	Machinery bases	0	0.35	Y/2	Y/4
12	M-MACH-COMP	M-MACHCOM-	Miscellaneous machinery parts and components	0	0.35	Y/2	Y/4
13	M-MACH-EXST	M-MACHEXM-	Existing machinery	0	0.35	M/6	M/5
14	M-MACH-FAST	M-MACHFAM-	Fasteners, nuts, and bolts	0	0.35	Y/2	Y/4
15	M-MACH-LROT	M-MACHLRM-	Large rotating machinery (turbine and pump outlines)	0	0.35	M/6	M/5
16	M-MACH-MOTR	M-MACHMOM-	Machinery motors	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Material Handling

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Material Handling							
43	M-MATL-CRAN	M-MATLCRM-	Bridge cranes, jib cranes, and monorails	0	0.35	Y/2	Y/4
44	M-MATL-HOIS	M-MATLHOM-	Hoists and hooks	0	0.35	Y/2	Y/4
45	M-MATL-LIEQ	M-MATLLIM-	Miscellaneous lifting equipment	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Controls Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Energy Management							
11	M-ENER-EQPM	M-ENEREQM-	Energy management equipment	0	0.35	M/6	M/5
12	M-ENER-WIRE	M-ENERWIM-	Energy management wiring	0	0.35	M/6	M/5
Controls							
38	M-CONT-INST	M-CONTINM-	Controls, instrumentation, diagrams, schematics, and equipment	0	0.35	Y/2	Y/4
39	M-CONT-THER	M-CONTTHM-	Thermostats	0	0.25	R/1	R/3
40	M-CONT-WIRE	M-CONTWIM-	Control wiring and tubing (including pneumatic)	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Elevations

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
38	M-ELEV-FIXT	M-ELEVFIM-	Miscellaneous fixtures	0	0.35	M/6	M/5
40	M-ELEV-IDEN	M-ELEVIDM-	Component identification numbers	0	0.35	Y/2	Y/4
41	M-ELEV-OTLN	M-ELEVOTM-	Building outlines	0	0.35	M/6	M/5
42	M-ELEV-PATT	M-ELEVPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
43	M-ELEV-PFIX	M-ELEVPFM-	Plumbing fixtures	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Sections

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	M-SECT-IDEN	M-SECTIDM-	Component identification numbers	0	0.35	Y/2	Y/4
46	M-SECT-MBND	M-SECTMBM-	Material beyond section cut	0	0.18	B/5	B/1
47	M-SECT-MCUT	M-SECTMCM-	Material cut by section	0	0.50	C/4	C/7
48	M-SECT-PATT	M-SECTPAM-	Textures and hatch patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphic0			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	M-DETL-GENF	M-DETLGEM-	General features (miscellaneous items)	0	V	V	V
10	M-DETL-ACCS	M-DETLACM-	Accessories	0	0.35	M/6	M/5
13	M-DETL-BOIL	M-DETLBOM-	Boilers	0	0.50	C/4	C/7
15	M-DETL-CABS	M-DETLCAM-	Cabinets	0	0.35	M/6	M/5
18	M-DETL-COIL	M-DETLCOM-	Coils and fin tubes	0	0.25	R/1	R/3
21	M-DETL-DUCT	M-DETLDUM-	Ducts	0	0.18	B/5	B/1
22	M-DETL-EQPT	M-DETLEQM-	Equipment and fixtures	0	0.35	Y/2	Y/4
26	M-DETL-FANS	M-DETLFAM-	Fans	0	0.25	G/3	G/2
35	M-DETL-GRLS	M-DETLGRM-	Grilles and louvers	0	0.25	G/3	G/2
37	M-DETL-INSL	M-DETLINM-	Insulation and coverings	0	0.25	R/1	R/3
42	M-DETL-MOTR	M-DETLMOM-	Motors	0	0.25	G/3	G/2
44	M-DETL-PIPE	M-DETLPIM-	Piping	0	0.35	Y/2	Y/4
45	M-DETL-PUMP	M-DETLPUM-	Pumps and compressors	0	0.25	G/3	G/2
49	M-DETL-STRC	M-DETLSTM-	Structural support features	0	0.35	M/6	M/5
50	M-DETL-TANK	M-DETLTAM-	Tanks	0	0.35	Y/2	Y/4
51	M-DETL-TRAP	M-DETLTRM-	Traps and drains	0	0.25	G/3	G/2
55	M-DETL-VENT	M-DETLVEM-	Vents	0	0.25	G/3	G/2
56	M-DETL-VLVE	M-DETLVLM-	Valves and fittings	0	0.35	Y/2	Y/4
57	M-DETL-WIRE	M-DETLWIM-	Electrical wiring	0	0.25	R/1	R/3

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	E-DEMO-HAZW	E-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Lighting Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Electrical Equipment							
12	E-LITE-EQPM	E-LITEEQM-	Physical outline of electrical equipment (e.g., panels, etc.)	0	0.50	C/4	C/7
Junction Boxes							
14	E-LITE-JBOX	E-LITEJBM-	Junction boxes	0	0.25	G/3	G/2
Switches							
16	E-LITE-SWCH	E-LITESWM-	Switches, contactors, disconnect switches, etc.	0	0.35	M/6	M/5
Lighting							
18	E-LITE-CLNG	E-LITECLM-	Ceiling mounted fixtures	0	0.35	M/6	M/5
19	E-LITE-EMER	E-LITEEMM-	Emergency fixtures	0	0.25	R/1	R/3
20	E-LITE-EXIT	E-LITEEXM-	Exit fixtures	0	0.35	M/6	M/5
21	E-LITE-FLOR	E-LITEFLM-	Floor mounted fixtures (e.g., stage, etc.)	0	0.35	M/6	M/5
22	E-LITE-IDEN	E-LITEIDM-	Light fixture identifier tags	0	0.25	R/1	R/3
23	E-LITE-OTLN	E-LITEOTM-	Lighting outline for background (optional)	0	0.35	M/6	M/5
24	E-LITE-ROOF	E-LITEROM-	Roof lighting	0	0.35	Y/2	Y/4
25	E-LITE-SITE	E-LITESIM-	Site lighting (see also Utilities discipline)	0	0.35	Y/2	Y/4
26	E-LITE-SPCL	E-LITESPM-	Special fixtures	0	0.35	M/6	M/5
27	E-LITE-WALL	E-LITEWAM-	Wall mounted fixtures	0	0.35	M/6	M/5
Circuit Lines							
41	E-LITE-CIRC	E-LITECIM-	Lighting circuits	0	0.35	M/6	M/5
42	E-LITE-CTCF	E-LITECTM-	Lighting circuits concealed in floor and conduit	3	0.35	M/6	M/5
43	E-LITE-CTCW	E-LITECCM-	Concealed wiring and conduit	4	0.25	G/3	G/2
44	E-LITE-CTID	E-LITECDM-	Circuit identifiers (e.g., panel circuits, wire/conduit size, tags, etc.)	0	0.25	R/1	R/3
45	E-LITE-CTXW	E-LITECXM-	Exposed wiring and conduit	0	0.35	M/6	M/5
46	E-LITE-HASH	E-LITEHAM-	Lighting circuit hash marks	0	0.35	M/6	M/5
47	E-LITE-HOME	E-LITEHOM-	Lighting circuit home run arrow	0	0.35	M/6	M/5
48	E-LITE-NUMB	E-LITENUM-	Lighting circuit numbers	0	0.25	R/1	R/3

Discipline: Electrical

Model File Type: Lighting Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Power Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Electrical Equipment							
10	E-POWR-EQPM	E-POWREQM-	Physical outline of electrical equipment (e.g., MCC switchboards, panelboards, etc.)	0	0.50	C/4	C/7
11	E-POWR-OTLN	E-POWROTM-	Power outline for backgrounds	0	0.35	M/6	M/5
12	E-POWR-PANL	E-POWRPAM-	Power panels/distribution equipment	0	0.35	M/6	M/5
Junction Boxes							
14	E-POWR-JBOX	E-POWRJBM-	Junction boxes	0	0.25	G/3	G/2
Switches							
15	E-POWR-SWBD	E-POWRSWM-	Power switchboards	0	0.35	M/6	M/5
16	E-POWR-SWCH	E-POWRSCM-	Switches, motor starters, contactors, disconnect switches, etc. - symbols	0	0.25	R/1	R/3
Power							
18	E-POWR-BUSW	E-POWRBUM-	Busways	0	0.35	M/6	M/5
19	E-POWR-CABL	E-POWRCAM-	Cable trays	0	0.35	M/6	M/5
20	E-POWR-CLNG	E-POWRCLM-	Ceiling receptacles and devices	0	0.25	G/3	G/2
21	E-POWR-FEED	E-POWRFEM-	Feeders	0	0.25	G/3	G/2
22	E-POWR-ROOF	E-POWRROM-	Roof power	0	0.25	G/3	G/2
23	E-POWR-SITE	E-POWRSIM-	Site power (see also utilities disciplines)	0	0.25	G/3	G/2
24	E-POWR-URAC	E-POWR-URM-	Underfloor raceways	3	0.35	M/6	M/5
25	E-POWR-WALL	E-POWRWAM-	Wall outlets and receptacles	0	0.25	G/3	G/2
Motors/Generators							
27	E-POWR-MOTR	E-POWRMOM-	Motors and utilization equipment symbols	0	0.50	C/4	C/7
28	E-POWR-GENR	E-POWRGEM-	Generators and utilization equipment symbols	0	0.35	Y/2	Y/4
Circuit Lines							
41	E-POWR-CIRC	E-POWRCIM-	Power circuits	0	0.35	M/6	M/5
42	E-POWR-CTCF	E-POWRCTM-	Power circuits concealed in floor and conduit	3	0.35	G/3	G/2
43	E-POWR-CTCW	E-POWRCWM-	Concealed wiring and conduit	4	0.25	G/3	G/2
44	E-POWR-CTID	E-POWRCDM-	Circuit identifiers (e.g., panel circuits, wire/conduit size, tags, etc.)	0	0.25	R/1	R/3
45	E-POWR-CTXW	E-POWRCXM-	Exposed wiring and conduit	2	0.35	M/6	M/5
46	E-POWR-HASH	E-POWRHAM-	Power circuits - hash marks	0	0.25	R/1	R/3
47	E-POWR-HOME	E-POWRHOM-	Power circuit home run arrows	0	0.25	R/1	R/3
48	E-POWR-NUMB	E-POWRNUM-	Power circuit numbers	0	0.35	M/6	M/5
49	E-POWR-UCPT	E-POWRUCM-	Under carpet wiring	0	0.25	G/3	G/2

Discipline: Electrical

Model File Type: Power Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Auxiliary Power Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Electrical Equipment							
10	E-AUXL-EQPM	E-AUXLEQM-	Physical outline of electrical equipment (e.g., MCC switchboards, panelboards, etc.)	0	0.50	C/4	C/7
11	E-AUXL-OTLN	E-AUXLOTM-	Power outline for backgrounds	0	0.35	M/6	M/5
12	E-AUXL-PANL	E-AUXLPAM-	Power panels/distribution equipment	0	0.35	M/6	M/5
Junction Boxes							
14	E-AUXL-JBOX	E-AUXLJBM-	Junction boxes	0	0.25	G/3	G/2
Switches							
15	E-AUXL-SWBD	E-AUXLSWM-	Power switchboards	0	0.35	M/6	M/5
16	E-AUXL-SWCH	E-AUXLSCM-	Switches, motor starters, contactors, disconnect switches, etc. - symbols	0	0.25	R/1	R/3
Power							
18	E-AUXL-BUSW	E-AUXLBUM-	Busways	0	0.35	M/6	M/5
19	E-AUXL-CABL	E-AUXLCAM-	Cable trays	0	0.35	M/6	M/5
20	E-AUXL-CLNG	E-AUXLCLM-	Ceiling receptacles and devices	0	0.25	G/3	G/2
21	E-AUXL-FEED	E-AUXLFEM-	Feeders	0	0.25	G/3	G/2
22	E-AUXL-ROOF	E-AUXLROM-	Roof power	0	0.25	G/3	G/2
23	E-AUXL-SITE	E-AUXLSIM-	Site power (see also Utilities disciplines)	0	0.25	G/3	G/2
24	E-AUXL-URAC	E-AUXLURM-	Underfloor raceways	3	0.35	M/6	M/5
25	E-AUXL-WALL	E-AUXLWAM-	Wall outlets and receptacles	0	0.25	G/3	G/2
Motors/Generators							
27	E-AUXL-MOTR	E-AUXLMOM-	Motors and utilization equipment symbols	0	0.50	C/4	C/7
28	E-AUXL-GENR	E-AUXLGEM-	Generators and utilization equipment symbols	0	0.35	Y/2	Y/4
Circuit Lines							
41	E-AUXL-CIRC	E-AUXLCIM-	Lighting circuits	0	0.35	M/6	M/5
42	E-AUXL-CTCF	E-AUXLCTM-	Power circuits concealed in floor and conduit	3	0.35	G/3	G/2
43	E-AUXL-CTCW	E-AUXLCWM-	Concealed wiring and conduit	4	0.25	G/3	G/2
44	E-AUXL-CTID	E-AUXLCDM-	Circuit identifiers (e.g., panel circuits, wire/conduit size, tags, etc.)	0	0.25	R/1	R/3
45	E-AUXL-CTXW	E-AUXLCXM-	Exposed wiring and conduit	2	0.35	M/6	M/5
46	E-AUXL-HASH	E-AUXLHAM-	Power circuits - hash marks	0	0.25	R/1	R/3
47	E-AUXL-HOME	E-AUXLHOM-	Power circuit home run arrows	0	0.25	R/1	R/3
48	E-AUXL-NUMB	E-AUXLNUM-	Power circuit numbers	0	0.35	M/6	M/5
49	E-AUXL-UCPT	E-AUXLUCM-	Under carpet wiring	0	0.25	G/3	G/2

Discipline: Electrical

Model File Type: Auxiliary Power Plan

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Grounding System

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ground System							
33	E-GRND-CIRC	E-GRNDCIM-	Circuits	0	0.50	C/4	C/7
34	E-GRND-DIAG	E-GRNDDIM-	Ground system diagram	0	0.35	Y/2	Y/4
35	E-GRND-EQUI	E-GRNDEQM-	Equipotential ground system	0	0.25	G/3	G/2
36	E-GRND-REFR	E-GRNDREM-	Reference ground system	0	0.25	R/1	R/3
37	E-GRND-GBUS	E-GRNDGBM-	Grounding systems - lightning protection	0	0.50	C/4	C/7
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: One-Line Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Control Circuit							
11	E-CNTL-ANTA	E-CNTLANM-	Antenna	V	0.25	G/3	G/2
12	E-CNTL-AVLV	E-CNTLAVM-	Arrestor Valves	V	0.25	G/3	G/2
13	E-CNTL-BATR	E-CNTLBAM-	Batteries	V	0.25	G/3	G/2
14	E-CNTL-CAPT	E-CNTLCAM-	Capacitor	V	0.25	G/3	G/2
15	E-CNTL-CKTB	E-CNTLCKM-	Circuit Boards	V	0.25	G/3	G/2
16	E-CNTL-CONT	E-CNTLCOM-	Contacts	V	0.25	G/3	G/2
17	E-CNTL-FUSE	E-CNTLFUM-	Fuses	V	0.25	G/3	G/2
18	E-CNTL-GENR	E-CNTLGEM-	Generators	V	0.25	G/3	G/2
19	E-CNTL-GRND	E-CNTLGRM-	Grounds	V	0.25	G/3	G/2
20	E-CNTL-METR	E-CNTLMEM-	Metering Devices	V	0.25	G/3	G/2
21	E-CNTL-MOTR	E-CNTLMOM-	Motors	V	0.25	G/3	G/2
22	E-CNTL-OVLD	E-CNTLOVM-	Overloads	V	0.25	G/3	G/2
23	E-CNTL-RACT	E-CNTLRAM-	Reactors	V	0.25	G/3	G/2
24	E-CNTL-RELA	E-CNTLREM-	Relays	V	0.25	G/3	G/2
25	E-CNTL-RSTR	E-CNTLRSM-	Resistors	V	0.25	G/3	G/2
26	E-CNTL-SWCH	E-CNTLSWM-	Switches	V	0.25	G/3	G/2
27	E-CNTL-XFMR	E-CNTLXFM-	Transformers	V	0.25	G/3	G/2
One-Line Diagram Linework							
41	E-1LIN-LW18	E-1LIN18M-	Fine one-line linework	V	0.18	B/5	B/1
42	E-1LIN-LW25	E-1LIN25M-	Thin one-line linework	V	0.25	R/1	R/3
43	E-1LIN-LW35	E-1LIN35M-	Medium one-line linework	V	0.35	Y/2	Y/4
44	E-1LIN-LW50	E-1LIN50M-	Wide one-line linework	V	0.50	C/4	C/7
45	E-1LIN-LW70	E-1LIN70M-	Extra wide one-line linework	V	0.70	W/7	W/0
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical - Power

Model File Type: Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Riser Diagram Linework							
41	E-RISR-LW18	E-RISR18M-	Fine linework	V	0.18	B/5	B/1
42	E-RISR-LW25	E-RISR25M-	Thin linework	V	0.25	R/1	R/3
43	E-RISR-LW35	E-RISR35M-	Medium linework	V	0.35	Y/2	Y/4
44	E-RISR-LW50	E-RISR50M-	Wide linework	V	0.50	C/4	C/7
45	E-RISR-LW70	E-RISR70M-	Extra wide linework	V	0.70	W/7	W/0
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Details

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	E-DETL-GENF	E-DETLGEM-	General features (miscellaneous items)	0	V	V	V
11	E-DETL-ARCH	E-DETLARM-	Architectural features	0	0.35	Y/2	Y/4
14	E-DETL-BUSS	E-DETLBUM-	Bus bars and rods	0	0.25	G/3	G/2
15	E-DETL-CABS	E-DETLCAM-	Cabinets and enclosures	0	0.35	M/6	M/5
37	E-DETL-INSL	E-DETLINM-	Insulation and coverings	0	0.25	G/3	G/2
39	E-DETL-LTFX	E-DETLLTM-	Light fixtures	0	0.35	Y/2	Y/4
42	E-DETL-MOTR	E-DETLMOM-	Motors	0	0.25	R/1	R/3
44	E-DETL-PIPE	E-DETLPIM-	Piping and conduit	0	0.35	Y/2	Y/4
49	E-DETL-STRC	E-DETLSTM-	Structural support features	0	0.25	R/1	R/3
52	E-DETL-TRAY	E-DETLTRM-	Cable trays	0	0.35	M/6	M/5
57	E-DETL-WIRE	E-DETLWIM-	Wire and cables	0	0.35	Y/2	Y/4
58	E-DETL-XFRM	E-DETLXFM-	Transformers	0	0.35	Y/2	Y/4

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Demolition Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	T-DEMO-HAZW	T-----HAM-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	T-STAT-DEMO	T-------M-D	Demolition	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Communication System Plan

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Electrical Equipment							
11	T-ELEC-IDEN	T-ELECIDM-	Identifiers and leaderlines	0	0.25	R/1	R/3
12	T-ELEC-EQPM	T-ELECEQM-	Physical outline of electrical equipment (e.g. cabinets, enclosures, etc.)	0	0.35	M/6	M/5
Junction Boxes							
14	T-COMM-JBOX	T-COMMJBM-	Junction boxes	0	0.35	M/6	M/5
Bell System							
16	T-BELL-IDEN	T-BELLIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
17	T-BELL-SYST	T-BELLSYM-	Bell system symbols	0	0.35	M/6	M/5
Central Dictation System							
18	T-DICT-IDEN	T-DICTIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
19	T-DICT-SYST	T-DICTSYM-	Central dictation system symbols	0	0.35	M/6	M/5
Clock System							
20	T-CLOK-IDEN	T-CLOKIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
21	T-CLOK-SYST	T-CLOKSYM-	Clock system symbols	0	0.35	M/6	M/5
Miscellaneous Alarm System							
22	T-ALRM-IDEN	T-ALRMIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
23	T-ALRM-SYST	T-ALRMSYM-	Miscellaneous alarm system symbols	0	0.35	M/6	M/5
Nurse Call Systems							
24	T-NURS-IDEN	T-NURSIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
25	T-NURS-SYST	T-NURSSYM-	Nurse call system symbols	0	0.35	M/6	M/5
Sound System							
26	T-SOUN-IDEN	T-SOUNIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
27	T-SOUN-SYST	T-SOUNSYM-	Sound system symbols	0	0.35	M/6	M/5
Telephone System							
28	T-PHON-IDEN	T-PHONIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
29	T-PHON-SYST	T-PHONSYM-	Telephone system symbols	0	0.25	G/3	G/2
Television System							
30	T-CCTV-IDEN	T-CCTVIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
31	T-CCTV-TELV	T-CCTVTEM-	Television system symbols	0	0.35	M/6	M/5
32	T-CCTV-TVAN	T-CCTVTVM-	Television antenna system symbols	0	0.35	Y/2	Y/4

Discipline: Telecommunications

Model File Type: Communication System Plan

Data/LAN System								
33	T-DATA-IDEN	T-DATAIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
34	T-DATA-SYST	T-DATASYM-	Data/LAN system symbols	0	0.35	M/6	M/5
Intercom/Public Address System							
35	T-INTC-IDEN	T-INTCIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
36	T-INTC-INPA	T-INTCINM-	Intercom/PA system symbols	0	0.35	Y/2	Y/4
37	T-INTC-PGNG	T-INTCPGM-	Paging system symbols	0	0.35	M/6	M/5
Fire Alarm and Detection Systems							
38	T-FIRE-IDEN	T-FIREIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
39	T-FIRE-SYST	T-FIRESYM-	Fire alarm and detection system symbols	0	0.35	M/6	M/5
Energy Monitoring Control Systems							
40	T-EMCS-IDEN	T-EMCSIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
41	T-EMCS-SYST	T-EMCSSYM-	Energy monitoring control system symbols	0	0.35	M/6	M/5
Security Systems							
42	T-SERT-IDEN	T-SERTIDM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
43	T-SERT-SYST	T-SERTSYM-	Security system symbols	0	0.25	G/3	G/2
Wiring System							
44	T-COMM-COAX	T-COMMCOM-	Coax cable	2	0.35	M/6	M/5
45	T-COMM-FIBR	T-COMMFIM-	Fiber optics cable	1	0.35	M/6	M/5
46	T-COMM-IDEN	T-COMMIDM-	Cable identifiers	0	0.35	Y/2	Y/4
47	T-COMM-MULT	T-COMMMUM-	Multi-conductor cable	V	0.35	M/6	M/5
48	T-COMM-TRAY	T-COMMTRM-	Cable tray and wireway symbols	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	T-STAT-DEMO	T-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
52	T-STAT-FUTR	T-------M-F	Future work	7	0.35	Y/2	Y/4
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
54	T-STAT-NEWW	T-------M-N	New work	0	0.50	C/4	C/7
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Block/Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Block/Riser Diagram Linework							
41	T-RISR-LW18	T-RISR18M-	Fine block/riser linework	V	0.18	B/5	B/1
42	T-RISR-LW25	T-RISR25M-	Thin block/riser linework	V	0.25	R/1	R/3
43	T-RISR-LW35	T-RISR35M-	Medium block/riser linework	V	0.35	Y/2	Y/4
44	T-RISR-LW50	T-RISR50M-	Wide block/riser linework	V	0.50	C/4	C/7
45	T-RISR-LW70	T-RISR70M-	Extra wide block/riser linework	V	0.70	W/7	W/0
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	T-STAT-DEMO	T-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
52	T-STAT-FUTR	T-------M-F	Future work	7	0.35	Y/2	Y/4
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
54	T-STAT-NEWW	T-------M-N	New work	0	0.50	C/4	C/7
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Appendix B
Sheet File Level/Layer Assignment Tables

This appendix provides the sheet file level/layer assignment tables:

General B3
Survey and Mapping B4
HTRW/Environmental B5
Civil/Site B6
Geotechnical B7
Utilities B8
Landscape Architecture B9
Structural B10
Architectural B11
Interior Design B12
Equipment-Security Systems B13
Fire Protection/Suppression B14
Plumbing B15
Mechanical B16
Electrical B17
Telecommunications B18

Discipline: General

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color##	MicroStation Line Color##
General Information							
1	G-ANNO-DIMS	G-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	G-ANNO-KEYN	G-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	G-ANNO-LEGN	G-----LEP-	Legends and schedules	0	V	V	V
5	G-ANNO-NOTE	G-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	G-ANNO-PATT	G-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	G-ANNO-SYMB	G-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	G-ANNO-TEXT	G-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	G-ANNO-REDL	G-----REP-	Redlines	0	0.25	R/1	R/3
63	G-ANNO-REVS	G-----RVP-	Revisions	0	0.50	C/4	C/7
NA	G-ANNO-XREF	G-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	V-ANNO-LEGN	V-----LEP-	Legends and schedules	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	V-ANNO-PATT	V-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	V-ANNO-REDL	V-----REP-	Redlines	0	0.25	R/1	R/3
63	V-ANNO-REVS	V-----RVP-	Revisions	0	0.50	C/4	C/7
NA	V-ANNO-XREF	V-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	H-ANNO-LEGN	H-----LEP-	Legends and schedules	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	H-ANNO-PATT	H-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	H-ANNO-REDL	H-----REP-	Redlines	0	0.25	R/1	R/3
63	H-ANNO-REVS	H-----RVP-	Revisions	0	0.50	C/4	C/7
NA	H-ANNO-XREF	H-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	C-ANNO-LEGN	C-----LEP-	Legends and schedules	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	C-ANNO-PATT	C-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	C-ANNO-REDL	C-----REP-	Redlines	0	0.25	R/1	R/3
63	C-ANNO-REVS	C-----RVP-	Revisions	0	0.50	C/4	C/7
NA	C-ANNO-XREF	C-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	B-ANNO-LEGN	B-----LEP-	Legends and schedules	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	B-ANNO-PATT	B-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	B-ANNO-REDL	B-----REP-	Redlines	0	0.25	R/1	R/3
63	B-ANNO-REVS	B-----RVP-	Revisions	0	0.50	C/4	C/7
NA	B-ANNO-XREF	B-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	U-ANNO-LEGN	U-----LEP-	Legends and schedules	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	U-ANNO-PATT	U-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	U-ANNO-REDL	U-----REP-	Redlines	0	0.25	R/1	R/3
63	U-ANNO-REVS	U-----RVP-	Revisions	0	0.50	C/4	C/7
NA	U-ANNO-XREF	U-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	L-ANNO-DIMS	L-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	L-ANNO-LEGN	L-----LEP-	Legends and schedules	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	L-ANNO-PATT	L-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	L-ANNO-REDL	L-----REP-	Redlines	0	0.25	R/1	R/3
63	L-ANNO-REVS	L-----RVP-	Revisions	0	0.50	C/4	C/7
NA	L-ANNO-XREF	L-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	S-ANNO-LEGN	S-----LEP-	Legends and schedules	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	S-ANNO-PATT	S-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	S-ANNO-REDL	S-----REP-	Redlines	0	0.25	R/1	R/3
63	S-ANNO-REVS	S-----RVP-	Revisions	0	0.50	C/4	C/7
NA	S-ANNO-XREF	S-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	A-ANNO-LEGN	A-----LEP-	Legends and schedules	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	A-ANNO-PATT	A-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	A-ANNO-REDL	A-----REP-	Redlines	0	0.25	R/1	R/3
63	A-ANNO-REVS	A-----RVP-	Revisions	0	0.50	C/4	C/7
NA	A-ANNO-XREF	A-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	I-ANNO-LEGN	I-----LEP-	Legends and schedules	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	I-ANNO-PATT	I-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	I-ANNO-REDL	I-----REP-	Redlines	0	0.25	R/1	R/3
63	I-ANNO-REVS	I-----RVP-	Revisions	0	0.50	C/4	C/7
NA	I-ANNO-XREF	I-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	QYANNO-LEGN	QY----LEP-	Legends and schedules	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	QYANNO-PATT	QY----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	QYANNO-REDL	QY----REP-	Redlines	0	0.25	R/1	R/3
63	QYANNO-REVS	QY----RVP-	Revisions	0	0.50	C/4	C/7
NA	QYANNO-XREF	QY----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	F-ANNO-LEGN	F-----LEP-	Legends and schedules	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	F-ANNO-PATT	F-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	F-ANNO-REDL	F-----REP-	Redlines	0	0.25	R/1	R/3
63	F-ANNO-REVS	F-----RVP-	Revisions	0	0.50	C/4	C/7
NA	F-ANNO-XREF	F-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	P-ANNO-LEGN	P-----LEP-	Legends and schedules	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	P-ANNO-PATT	P-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	P-ANNO-REDL	P-----REP-	Redlines	0	0.25	R/1	R/3
63	P-ANNO-REVS	P-----RVP-	Revisions	0	0.50	C/4	C/7
NA	P-ANNO-XREF	P-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	M-ANNO-LEGN	M-----LEP-	Legends and schedules	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	M-ANNO-PATT	M-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	M-ANNO-REDL	M-----REP-	Redlines	0	0.25	R/1	R/3
63	M-ANNO-REVS	M-----RVP-	Revisions	0	0.50	C/4	C/7
NA	M-ANNO-XREF	M-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	E-ANNO-LEGN	E-----LEP-	Legends and schedules	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	E-ANNO-PATT	E-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	E-ANNO-REDL	E-----REP-	Redlines	0	0.25	R/1	R/3
63	E-ANNO-REVS	E-----RVP-	Revisions	0	0.50	C/4	C/7
NA	E-ANNO-XREF	E-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Sheet-specific dimensions (includes witness/extension lines, dimension arrowheads/dots/slashes, dimension text)	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Sheet-specific keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
3	T-ANNO-LEGN	T-----LEP-	Legends and schedules	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	Sheet-specific notes and general remarks	0	0.35	Y/2	Y/4
4	T-ANNO-PATT	T-----PAP-	Sheet-specific patterning, cross-hatching, poche (e.g., keyplan patterning)	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Sheet-specific symbols (e.g., scales, north arrow, section cuts, detail bubbles, etc.)	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Sheet-specific text and callouts with associated leaderlines and arrowheads (e.g., title block text, legend and schedule text)	0	V	V	V
62	T-ANNO-REDL	T-----REP-	Redlines	0	0.25	R/1	R/3
63	T-ANNO-REVS	T-----RVP-	Revisions	0	0.50	C/4	C/7
NA	T-ANNO-XREF	T-----XRP-	Referenced model files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA

Note: V = Varies, NA = Not Applicable

Appendix C
Simplified Model File Level/Layer Assignment Tables

This appendix provides the simplified model file level/layer assignment tables:

General

Border Sheet C3
Keyplan C4

Survey and Mapping

Demolition Plan C5
Survey and Mapping Plan C6
Elevations C7
Sections C8

HTRW/Environmental

Demolition Plan C9
Industrial Water Plan C10
Waste Water Plan C11
Sections C12
Details C13

Civil/Site

Demolition Plan C14
Site Plan C15
Grading Plan C16
Transportation Site Plan C17
Airfield Plan C18
Elevations C19
Sections C20
Details C21

Geotechnical

Demolition Plan C22
Boring Log C23
Sections C24
Details C25

Utilities

Demolition Plan C26
Electrical Utilities Plan C27
EMCS Plan C28
Fuel Utilities Plan C29
Gas Utilities Plan C30
Poles Plan C31
HTCW Utilities Plan C32
Domestic Water Plan C33
One-Line Diagrams C34

Landscape Architecture

Demolition Plan C35
Irrigation Plan C36
Landscape Plan C37
Turfing Plan C38
Details C39

Structural

Demolition Plan C40
Foundation Plan C41
Structural Framing Plan C42
Column Plan C43
Elevations C44
Building Sections C45
Details C46

Architectural

Demolition Plan C47
Floor Plan C48
Reflected Ceiling Plan C49
Roof Plan C50
Elevations (Exterior and Interior) C51
Finish Plan C52
Building Sections C53
Details C54
Equipment Plan C55
Life Safety Plan C56
Area Calculations/Occupancy Plan . . . C57

Interior Design

Demolition Plan C58
Furniture Plan C59
System Furniture Plan/
Workstation Typical C60
Signage Plan C61
Interior Elevations C62
Details C63

Equipment - Security Systems

Demolition Plan C64
Security Plan C65
Elevations C66
Riser Diagrams C67

Fire Protection/Suppression

Demolition Plan C68
Sprinkler Plan C69
Riser Diagrams C70

Plumbing

Demolition Plan C71
Piping Plan C72
Riser Diagrams C73

Mechanical

Demolition Plan C74
HVAC Plan C75
Piping Plan C76
Specialty Piping and Equipment C77
Machine Design C79
Material Handling C80
Controls Plan C81
Elevations C82
Sections C83
Details C84

Electrical

Demolition Plan C85
Lighting Plan C86
Power Plan C87
Auxiliary Power Plan C88
Grounding System C89
One-Line Diagrams C90
Riser Diagrams C91
Details C92

Telecommunications

Demolition Plan C93
Communications System Plan C94
Block/Riser Diagrams C96

Discipline: General

Model File Type: Border Sheet - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
5	G-ANNO-NOTE	G-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
6	G-ANNO-SYMB	G-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	G-ANNO-TEXT	G-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	0.35	Y/2	Y/4
10	G-ANNO-TTLB	G-----TTP-	Border and title block linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: General

Model File Type: Keyplan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
3	G-ANNO-NPLT	G-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	G-ANNO-PATT	G-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	G-ANNO-SYMB	G-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	G-ANNO-TEXT	G-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	G-ANNO-XREF	G-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines							
11	S-GRID	S-GRID--M-	Column grid and tags (should be referenced from Structural Column Plan if possible)	V	V	V	V
Floor Information							
15	G-PLAN	G-PLAN--M-	Floor outline/perimeter/building footprint (should be referenced from Floor Plan if possible)	0	0.35	M/6	M/5
Site Information							
20	G-SITE	G-SITE--M-	Site plan - keyplan	0	0.35	M/6	M/5

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	V-DEMO	V-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
55	V-STAT-NICN	V-------M-N	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Survey and Mapping Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	V-SURV	V-SURV--M-	Survey and control lines, survey data	V	V	V	V
Building and Primary Structures							
11	V-BLDG	V-BLDG--M-	Building and primary structures - outlines	0	V	V	V
Site							
14	V-SITE	V-SITE--M-	Fences, signs, walks, trails, bicycle paths, existing site features	0	V	V	V
Property							
24	V-PROP	V-PROP--M-	Bearings and distance labels, easements, property lines, right of ways	V	V	V	V
Storm Drainage							
30	V-STRM	V-STRM--M-	Storm drainage, headwalls, inlets, manholes, culverts, drainage structures, ditches, ponds	0	V	V	V
Pavements/Transportation							
34	V-PAVE	V-PAVE--M-	Roads, parking lots, railroads, airfield pavements, joint patterns, pavement markings	0	0.35	Y/2	Y/4
Topography							
39	V-TOPO	V-TOPO--M-	Coordinate grid tics, major/minor contours, spot elevations, boring locations	0	V	V	V
Utilities							
59	V-UTIL	V-UTIL--M-	Gas piping, features, valves, power lines, lights, telephone lines, poles, hydrants, tanks, water/other piping	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Elevations - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
29	V-ELEV	V-ELEV--M-	Boring log staff, new grade lines, new subgrade lines, utilities, existing ground line, retaining wall, miscellaneous	V	V	V	V
Frame							
48	V-FRAM	V-FRAM--M-	Grid lines, profiles, x-sections, grid borders	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Survey and Mapping

Model File Type: Sections - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	V-ANNO-DIMS	V-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	V-ANNO-KEYN	V-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	V-ANNO-NOTE	V-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	V-ANNO-XREF	V-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
29	V-SECT	V-SECT--M-	Boring log staff, new grade lines, new subgrade lines, utilities, existing ground line, retaining wall, miscellaneous	V	V	V	V
Frame							
48	V-FRAM	V-FRAM--M-	Grid lines, profiles, x-sections, grid borders	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	V-STAT-DEMO	V-------M-D	Demolition	2	0.35	M/6	M/5
51	V-STAT-EXST	V-------M-E	Existing to remain	0	0.25	G/3	G/2
52	V-STAT-FUTR	V-------M-F	Future work	7	0.35	Y/2	Y/4
53	V-STAT-MOVE	V-------M-M	Items to be moved	6	0.35	M/6	M/5
54	V-STAT-NEWW	V-------M-N	New work	0	0.50	C/4	C/7
55	V-STAT-NICN	V-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	V-STAT-PHS#	V-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	V-STAT-RELO	V-------M-R	Relocated items	2	0.18	B/5	B/1
58	V-STAT-TEMP	V-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	H-DEMO	H-------M-D	Hazardous waste	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Industrial Water Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Industrial Water							
11	H-INDW	H-INDW--M-	Devices, piping, junction boxes, reservoirs, stations	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Waste Water Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Waste Water							
11	H-WWTR	H-WWTR--M-	Devices, piping, junction boxes, areas, stations	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Sections - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	H-ANNO-KEYN	H-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	H-ANNO-NOTE	H-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	H-ANNO-XREF	H-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	H-SECT	H-SECT--M-	Component identification numbers, material beyond section cut, material cut by section, textures and hatch patterns	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	H-STAT-DEMO	H-------M-D	Demolition	2	0.35	M/6	M/5
51	H-STAT-EXST	H-------M-E	Existing to remain	0	0.25	G/3	G/2
52	H-STAT-FUTR	H-------M-F	Future work	7	0.35	Y/2	Y/4
53	H-STAT-MOVE	H-------M-M	Items to be moved	6	0.35	M/6	M/5
54	H-STAT-NEWW	H-------M-N	New work	0	0.50	C/4	C/7
55	H-STAT-NICN	H-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	H-STAT-PHS#	H-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	H-STAT-RELO	H-------M-R	Relocated items	2	0.18	B/5	B/1
58	H-STAT-TEMP	H-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: HTRW/Environmental

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	H-ANNO-DIMS	H-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	H-ANNO-NPLT	H-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	H-ANNO-PATT	H-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	H-ANNO-SYMB	H-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	H-ANNO-TEXT	H-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	H-DETL	H-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	C-DEMO	C-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Site Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	C-SURV	C-SURV--M-	Benchmarks, primary feature alignments, survey control lines	V	V	V	V
Building and Primary Structures							
11	C-BLDG	C-BLDG--M-	Building and primary structures - outlines	0	V	V	V
Site Improvement							
13	C-SITE	C-SITE--M-	Fences, handrails, site improvements, ramps, signs, stairs, walks, trails	V	V	V	V
Pavements/Transportation							
22	C-PAVE	C-PAVE--M-	Roads, parking lots, railroads and airfield pavements	0	V	V	V
Property							
24	C-PROP	C-PROP--M-	Bearings and distance labels, construction limits/controls, easements, property lines, right of ways	V	V	V	V
Storm Drainage							
30	C-STRM	C-STRM--M-	Storm drainage, headwalls, inlets, manholes, culverts, ditches, swales, ponds	0	V	V	V
Erosion Control							
34	C-EROS	C-EROS--M-	Riprap, revetments/stone protection, breakwaters, dikes, jetties, drains	0	V	V	V
Alignments							
36	C-ALGN	C-ALGN--M-	Secondary feature alignments	V	V	V	V
Topography							
38	C-TOPO	C-TOPO--M-	Breaklines, boring locations, coordinate grid tics, major/minor contours, cut/fill slopes, top/toe slopes, spot elevations	0	V	V	V
Utilities							
59	C-UTIL	C-UTIL--M-	Gas piping, valves, power lines, lights, telephone lines, poles, water piping, hydrants, tanks	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Grading Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Buildings and Structures							
11	C-BLDG	C-BLDG--M-	Buildings and other structures	0	V	V	V
Borrow Areas							
21	C-BORW	C-BORW--M-	Borrow/spoil area	V	0.35	Y/2	Y/4
Storm Drainage							
26	C-STRM	C-STRM--M-	Culverts, drainage inlets, storm drains, curbs, ditches, headwalls, manholes, ponds, underground pipes, erosion control, control alignments	V	V	V	V
Topography							
38	C-TOPO	C-TOPO--M-	Breaklines, soil boring layouts, coordinates, major/minor contours, retaining walls, cut/fill slopes, spot elevations, top/toe slopes	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Transportation Site Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Survey Lines							
8	C-SURV	C-SURV--M-	Horizontal and vertical benchmarks, primary feature alignments, survey control lines	V	V	V	V
Roads							
11	C-ROAD	C-ROAD--M-	Roads, curbs, guardrails, centerlines	V	V	V	V
Parking Lots and Minor Roads							
21	C-PKNG	C-PKNG--M-	Parking lots, minor roads, curbs, markings, striping, islands, drainage slope indications, cars, centerlines	V	V	V	V
Railroads							
33	C-RAIL	C-RAIL--M-	Railroad outlines, centerlines	V	V	V	V
Pavement Joints							
39	C-PAVE	C-PAVE--M-	Pavement joints	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Airfield Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Taxiway							
11	C-TAXI	C-TAXI--M-	Taxiway outlines, joints, shoulders, centerlines	V	V	V	V
Apron							
18	C-APRN	C-APRN--M-	Apron outlines, joints, shoulders, centerlines	V	V	V	V
Overrun Areas							
25	C-OVRN	C-OVRN--M-	Airfield overrun area outlines, joints, shoulders, centerlines	V	V	V	V
Airfield Pavement Types							
31	C-PAVE	C-PAVE--M-	Type A, B, and C traffic areas	V	V	V	V
Runway							
35	C-AIRF	C-AIRF--M-	Airfield runway edges, centerlines	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Elevations - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
29	C-ELEV	C-ELEV--M-	Boring log staff, new grade lines, new subgrade lines, utilities, existing ground lines, retaining wall, structures, miscellaneous	V	V	V	V
Frame							
48	C-FRAM	C-FRAM--M-	Grid lines, profiles, x-sections, grid borders	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Sections - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	C-ANNO-KEYN	C-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	C-ANNO-NOTE	C-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	C-ANNO-XREF	C-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
29	C-SECT	C-SECT--M-	Boring log staff, new grade lines, new subgrade lines, utilities, existing ground lines, retaining wall, structures, miscellaneous	V	V	V	V
Frame							
48	C-FRAM	C-FRAM--M-	Grid lines, profiles, x-sections, grid borders	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	C-STAT-DEMO	C-------M-D	Demolition	2	0.35	M/6	M/5
51	C-STAT-EXST	C-------M-E	Existing to remain	0	0.25	G/3	G/2
52	C-STAT-FUTR	C-------M-F	Future work	7	0.35	Y/2	Y/4
53	C-STAT-MOVE	C-------M-M	Items to be moved	6	0.35	M/6	M/5
54	C-STAT-NEWW	C-------M-N	New work	0	0.50	C/4	C/7
55	C-STAT-NICN	C-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	C-STAT-PHS#	C-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	C-STAT-RELO	C-------M-R	Relocated items	2	0.18	B/5	B/1
58	C-STAT-TEMP	C-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Civil/Site

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	C-ANNO-DIMS	C-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	C-ANNO-NPLT	C-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	C-ANNO-PATT	C-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	C-ANNO-SYMB	C-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	C-ANNO-TEXT	C-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	C-DETL	C-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	B-DEMO	B-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Boring Log - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Borings/Perk Holes							
11	B-BORE	B-BORE--M-	Bore/perk hole locations, field information, component identification numbers, laboratory information	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
52	B-STAT-FUTR	B-------M-F	Future work	7	0.35	Y/2	Y/4
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
54	B-STAT-NEWW	B-------M-N	New work	0	0.50	C/4	C/7
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Sections - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	B-ANNO-KEYN	B-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	B-ANNO-NOTE	B-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	B-ANNO-XREF	B-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	B-SECT	B-SECT--M-	Component identification numbers, material beyond section cut, material cut by section, textures and hatch patterns	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	B-STAT-DEMO	B-------M-D	Demolition	2	0.35	M/6	M/5
51	B-STAT-EXST	B-------M-E	Existing to remain	0	0.25	G/3	G/2
52	B-STAT-FUTR	B-------M-F	Future work	7	0.35	Y/2	Y/4
53	B-STAT-MOVE	B-------M-M	Items to be moved	6	0.35	M/6	M/5
54	B-STAT-NEWW	B-------M-N	New work	0	0.50	C/4	C/7
55	B-STAT-NICN	B-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	B-STAT-PHS#	B-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	B-STAT-RELO	B-------M-R	Relocated items	2	0.18	B/5	B/1
58	B-STAT-TEMP	B-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Geotechnical

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	B-ANNO-DIMS	B-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	B-ANNO-NPLT	B-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	B-ANNO-PATT	B-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	B-ANNO-SYMB	B-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	B-ANNO-TEXT	B-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	B-DETL	B-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	U-DEMO	U-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Electrical Utilities Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Abandoned Electrical Cables							
10	U-CABL	U-CABL--M-	Abandoned electrical utility lines	2	0.35	M/6	M/5
Primary Electrical Cables							
11	U-PRIM	U-PRIM--M-	Overhead/underground electrical utility lines	V	0.35	M/6	M/5
Secondary Electrical Cables							
14	U-SCND	U-SCND--M-	Overhead/underground electrical utility lines	V	0.35	Y/2	Y/4
Service Cables							
17	U-SERV	U-SERV--M-	Overhead/underground electrical utility lines	V	0.25	G/3	G/2
Site Utility Items							
20	U-SITE	U-SITE--M-	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, markers, ductbanks, junction boxes, substations, switches, vaults	0	V	V	V
Lights							
26	U-LITE	U-LITE--M-	External flood lights, pole mounted lights, street lights, walkway lights	0	0.35	M/6	M/5
Transformers							
37	U-TRAN	U-TRAN--M-	Pole mounted transformers	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: EMCS Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
EMCS							
10	U-EMCS	U-EMCS--M-	EMCS cables, devices, ductbanks, junction boxes	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Fuel Utilities Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Fuel Utilities							
11	U-FUEL	U-FUEL--M-	Devices, stations, junction boxes, pits, piping	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Gas Utilities Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Gas Utilities							
11	U-GASP	U-GASP--M-	Devices, stations, junction boxes, pits, piping	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Poles Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Poles							
11	U-POLE	U-POLE--M-	Double poles, identifier tags, symbol modifiers, pole risers, single poles, towers	0	0.25	G/3	G/2
Guy Wires							
20	U-GUYW	U-GUYW--M-	Down guy wires, identifier tags, symbol modifiers, span guy wires	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: HTCW Utilities Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
HTCW Utilities							
11	U-HTCW	U-HTCW--M-	Devices, stations, plants, junction boxes, pits, piping	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: Domestic Water Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Domestic Water Plan							
11	U-DOMW	U-DOMW--M-	Devices, stations, reservoirs, junction boxes, pits, piping	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Utilities

Model File Type: One-Line Diagrams - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	U-ANNO-DIMS	U-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	U-ANNO-KEYN	U-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	U-ANNO-NOTE	U-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	U-ANNO-NPLT	U-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	U-ANNO-PATT	U-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	U-ANNO-SYMB	U-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	U-ANNO-TEXT	U-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	U-ANNO-XREF	U-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Control Circuit							
11	U-CNTL	U-CNTL--M-	Antenna, arestor valves, batteries, capacitors, circuit boards, contacts, fuses, generators, grounds, metering devices, motors, overloads, reactors, relays, resistors	V	0.25	G/3	G/2
One-Line Diagram Linework							
41	U-1LIN	U-1LIN--M-	Fine, thin, medium, wide, and extra wide one-line linework	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	U-STAT-DEMO	U-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	U-STAT-EXST	U-------M-E	Existing to remain	0	0.25	G/3	G/2
52	U-STAT-FUTR	U-------M-F	Future work	7	0.35	Y/2	Y/4
53	U-STAT-MOVE	U-------M-M	Items to be moved	6	0.35	M/6	M/5
54	U-STAT-NEWW	U-------M-N	New work	0	0.50	C/4	C/7
55	U-STAT-NICN	U-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	U-STAT-PHS#	U-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	U-STAT-RELO	U-------M-R	Relocated items	2	0.18	B/5	B/1
58	U-STAT-TEMP	U-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	L-DEMO	L-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Irrigation Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Colo
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Irrigation System							
25	L-IRRG	L-IRRG--M-	Irrigation coverage, equipment, piping, sprinklers, drip/sprinkler heads, spray distribution patterns	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Landscape Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Site Improvements							
11	L-SITE	L-SITE--M-	Bridges, decks, fencing, site furnishings, play structures, pools, boulders, cobble, sports fields, steps, walls	0	V	V	V
Landscape Plants							
25	L-PLNT	L-PLNT--M-	Rock, bark, and other landscaping beds, groundcover and vines, planting plants, shrub lines, shrubs, tree lines, trees	V	V	V	V
Walks							
35	L-WALK	L-WALK--M-	Walks and steps	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Turfing Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Colo
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	L-ANNO-KEYN	L-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	L-ANNO-NOTE	L-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	L-ANNO-XREF	L-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Hydroseeding							
11	L-HYDR	L-HYDR--M-	Hydroseeding - seed, sod, sprig	0	V	V	V
Turfing							
21	L-TURF	L-TURF--M-	Mulching outlines	0	0.18	B/5	B/1
Turf							
25	L-SEED	L-SEED--M-	Seed, sod, sprig	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	L-STAT-DEMO	L-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	L-STAT-EXST	L-------M-E	Existing to remain	0	0.25	G/3	G/2
52	L-STAT-FUTR	L-------M-F	Future work	7	0.35	Y/2	Y/4
53	L-STAT-MOVE	L-------M-M	Items to be moved	6	0.35	M/6	M/5
54	L-STAT-NEWW	L-------M-N	New work	0	0.50	C/4	C/7
55	L-STAT-NICN	L-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	L-STAT-PHS#	L-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	L-STAT-RELO	L-------M-R	Relocated items	2	0.18	B/5	B/1
58	L-STAT-TEMP	L-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Landscape Architecture

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	L-ANNO-DIMS	L-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	L-ANNO-NPLT	L-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	L-ANNO-PATT	L-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	L-ANNO-SYMB	L-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	L-ANNO-TEXT	L-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	L-DETL	L-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	S-DEMO	S-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Foundation Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines (use only if a Column Plan model file is not created)							
10	S-GRID	S-GRID--M-	Grid lines, column tags	V	V	V	V
Foundation							
16	S-FNDN	S-FNDN--M-	Footings, grade beams, piles, piers, caisson piers, drilled piers, foundation reinforcing, component identification numbers	V	0.35	Y/2	Y/4
Grading							
23	S-GRAD	S-GRAD--M-	Elevated grading, floor grading	3	0.18	Gr/8	Gr/9
Slabs							
26	S-SLAB	S-SLAB--M-	Slab outline, control joints, reinforcing	0	0.35	Y/2	Y/4
Grating							
30	S-GRAT	S-GRAT--M-	Elevated grating (catwalks), floor grating	0	0.25	G/3	G/2
Joints							
33	S-JOIN	S-JOIN--M-	Construction joints, control/expansion joints	V	V	V	V
Miscellaneous Supports							
35	S-SPPT	S-SPPT--M-	Miscellaneous fasteners, anchor bolts, supports	0	0.35	Y/2	Y/4
Stairs							
38	S-STRS	S-STRS--M-	Stair control joints, ladders, ladder handrails, safety guards, grab bars, stair reinforcing	0	0.25	G/3	G/2
Walls							
43	S-WALL	S-WALL--M-	Concrete walls, load/non-load bearing CMU walls, precast walls, steel stud walls	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Structural Framing Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Beams							
11	S-BEAM	S-BEAM--M-	Primary beams/girders, secondary beams/girders, centerlines	V	V	V	V
Bracing							
16	S-BRAC	S-BRAC--M-	Lateral bracing, vertical bracing, shear walls	0	0.35	Y/2	Y/4
Deck							
20	S-DECK	S-DECK--M-	Floor deck, roof deck, openings and penetrations	0	0.25	G/3	G/2
Elevators							
25	S-EVTR	S-EVTR--M-	Elevator framing	0	0.35	M/6	M/5
Miscellaneous Metal							
28	S-METL	S-METL--M-	Miscellaneous metal	0	0.35	M/6	M/5
Miscellaneous Supports							
30	S-SPPT	S-SPPT--M-	Miscellaneous fasteners, anchor bolts, supports	0	0.35	Y/2	Y/4
Open Web Joists							
36	S-JOIS	S-JOIS--M-	Primary and secondary joists, bridging	0	0.35	M/6	M/5
Trusses							
41	S-TRUS	S-TRUS--M-	Trusses	0	0.35	M/6	M/5
Welding							
48	S-WELD	S-WELD--M-	Welding symbols	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Column Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Grid Lines							
10	S-GRID	S-GRID--M-	Horizontal and vertical grid lines, column tags	V	V	V	V
Columns							
16	S-COLS	S-COLS--M-	Primary and secondary columns, centerlines	V	V	V	V
Welding							
48	S-WELD	S-WELD--M-	Welding symbols	0	0.25	R/1	R/3
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Elevations - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	0.35	Y/2	Y/4
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	0.35	Y/2	Y/4
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
40	S-ELEV	S-ELEV--M-	Building outlines, signage, component identification numbers, textures and hatch patterns	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Building Sections - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	S-ANNO-KEYN	S-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	S-ANNO-NOTE	S-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	S-ANNO-XREF	S-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	S-SECT	S-SECT--M-	Material cut by section, material beyond section cut, component identification numbers, textures and hatch patterns	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	S-STAT-DEMO	S-------M-D	Demolition	2	0.35	M/6	M/5
51	S-STAT-EXST	S-------M-E	Existing to remain	0	0.25	G/3	G/2
52	S-STAT-FUTR	S-------M-F	Future work	7	0.35	Y/2	Y/4
53	S-STAT-MOVE	S-------M-M	Items to be moved	6	0.35	M/6	M/5
54	S-STAT-NEWW	S-------M-N	New work	0	0.50	C/4	C/7
55	S-STAT-NICN	S-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	S-STAT-PHS#	S-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	S-STAT-RELO	S-------M-R	Relocated items	2	0.18	B/5	B/1
58	S-STAT-TEMP	S-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Structural

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	S-ANNO-DIMS	S-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	S-ANNO-NPLT	S-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	S-ANNO-PATT	S-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	S-ANNO-SYMB	S-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	S-ANNO-TEXT	S-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	0	V	V	V
Detail Information							
9	S-DETL	S-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	A-DEMO	A-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Floor Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Floor Plan							
11	A-FLOR	A-FLOR--M-	Floor information, plumbing fixtures, elevators, stairs, railings, woodwork, ceiling penetrations	V	V	V	V
Columns							
22	A-COLS	A-COLS--M-	Column enclosures/fire protection	0	0.50	C/4	C/7
Walls							
23	A-WALL	A-WALL--M-	Cavity walls, centerlines, wall mullions and glass, exterior/interior full height walls, wall identification tags, moveable walls/partitions, fire wall designators, wall-hung specialit	V	V	V	V
Doors							
37	A-DOOR	A-DOOR--M-	Full/partial height doors: swing and leaf, door number and symbol, miscellaneous door symbols	0	V	V	V
Windows							
41	A-GLAZ	A-GLAZ--M-	Full height glazed walls/partitions, window sills	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Reflected Ceiling Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ceiling Information							
11	A-CLNG	A-CLNG--M-	Access panels, ceiling/roof penetrations, ceiling control joints, ceiling grid, main tees, suspended elements, ceiling mounted specialities	0	V	V	V
Lights							
21	A-LITE	A-LITE--M-	Ceiling recessed lights, emergency lights, surface mounted lights, wall mounted lights	0	V	V	V
Diffusers							
26	A-HVAC	A-HVAC--M-	Other inlets and outlets, ceiling return inlets, ceiling supply diffusers	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Roof Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche (see also A-ROOF-PATT)	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Roof Information							
11	A-ROOF	A-ROOF--M-	Crickets flow arrows, roof drains, internal gutters, expansion joints, stair handrails, nosings, guard rails, level changes, accessories, stair risers/treads, walkways	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Elevations (Exterior and Interior) - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
37	A-ELEV	A-ELEV--M-	Wall-mounted casework, miscellaneous fixtures, finishes, woodwork, trim, component identification numbers, building outlines, plumbing fixtures, signage	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Finish Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Furniture							
11	A-FURN	A-FURN--M-	Finish patterns	0	0.18	Gr/8	Gr/9
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Building Sections - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	A-SECT	A-SECT--M-	Component identification numbers, material beyond section cut, material cut by section, textures	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	A-DETL	A-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Equipment Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Area Information							
11	A-EQPM	A-EQPM--M-	Equipment access, ceiling mounted/suspended equipment, fixed equipment, equipment identification numbers, moveable equipment	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Life Safety Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Life Safety							
11	A-LSFT	A-LSFT--M-	Egress requirements designators, fire equipment, travel distances, wall fire ratings	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Architectural

Model File Type: Area Calculations/Occupancy Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	A-ANNO-DIMS	A-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	A-ANNO-KEYN	A-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	A-ANNO-NOTE	A-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	A-ANNO-NPLT	A-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	A-ANNO-PATT	A-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	A-ANNO-SYMB	A-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	A-ANNO-TEXT	A-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	A-ANNO-XREF	A-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Area Information							
9	A-AREA	A-AREA--M-	Room numbers, tenant identifications, area calculations, architectural area calculations boundary lines, occupant/employee names	0	0.50	C/4	C/7
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	A-STAT-DEMO	A-------M-D	Demolition	2	0.35	M/6	M/5
51	A-STAT-EXST	A-------M-E	Existing to remain	0	0.25	G/3	G/2
52	A-STAT-FUTR	A-------M-F	Future work	7	0.35	Y/2	Y/4
53	A-STAT-MOVE	A-------M-M	Items to be moved	6	0.35	M/6	M/5
54	A-STAT-NEWW	A-------M-N	New work	0	0.50	C/4	C/7
55	A-STAT-NICN	A-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	A-STAT-PHS#	A-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	A-STAT-RELO	A-------M-R	Relocated items	2	0.18	B/5	B/1
58	A-STAT-TEMP	A-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	I-DEMO	I-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Furniture Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Equipment							
11	I-EQPM	I-EQPM--M-	Child development, ceiling/suspended equipment, copiers, fax machines, fixed/moveable/not in contract equipment, high density storage, equipment access	V	V	V	V
Free Standing Furniture							
25	I-FURN	I-FURN--M-	Accessories, artwork, casegoods, flooring, free-standing desks and tables, medical, miscellaneous, plants, chairs, sofas, file cabinets, code identification, planning grid	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: System Furniture Plan/Workstation Typical - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Systems Furniture							
11	I-SYST	I-SYST--M-	Furniture, code identification, lighting/power/communication/storage/work surface components, patterns, panels, partition walls	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Signage Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Signage							
46	I-FLOR	I-FLOR--M-	Directory signage	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Interior Elevations - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	I-ANNO-KEYN	I-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	I-ANNO-NOTE	I-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	I-ANNO-XREF	I-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
37	I-ELEV	I-ELEV--M-	Wall mounted casework, misc. fixtures, finishes, woodwork, trim, signage, plumbing fixtures, component identification numbers, textures and hatch patterns	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	I-STAT-DEMO	I-------M-D	Demolition	2	0.35	M/6	M/5
51	I-STAT-EXST	I-------M-E	Existing to remain	0	0.25	G/3	G/2
52	I-STAT-FUTR	I-------M-F	Future work	7	0.35	Y/2	Y/4
53	I-STAT-MOVE	I-------M-M	Items to be moved	6	0.35	M/6	M/5
54	I-STAT-NEWW	I-------M-N	New work	0	0.50	C/4	C/7
55	I-STAT-NICN	I-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	I-STAT-PHS#	I-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	I-STAT-RELO	I-------M-R	Relocated items	2	0.18	B/5	B/1
58	I-STAT-TEMP	I-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Interior Design

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	I-ANNO-DIMS	I-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	I-ANNO-NPLT	I-----NPP-	Construction lines, reference targets, area calculations, review comments	V	V	V	V
4	I-ANNO-PATT	I-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	I-ANNO-SYMB	I-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	I-ANNO-TEXT	I-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	0	V	V	V
Detail Information							
9	I-DETL	I-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	QYDEMO	QY------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Security Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Access Control							
11	QYACCC	QYACCC--M-	Exterior/interior mounted access control devices, access control units/panels	0	0.25	G/3	G/2
Annunciation							
14	QYANCN	QYANCN--M-	Annunciation equipment control unit/panel, remote station	0	0.25	G/3	G/2
Barriers							
17	QYBARR	QYBARR--M-	Fences/gates, walls, sensors	0	V	V	V
Communications							
21	QYCOMM	QYCOMM--M-	Ceiling mounted/wall mounted communication equipment, intercoms/speakers, communication panels	0	0.25	G/3	G/2
Switches/Contacts							
26	QYSWCH	QYSWCH--M-	Flush mounted/surface mounted switches/contacts	0	0.25	G/3	G/2
Sensors							
30	QYSENS	QYSENS--M-	Buried/ceiling mounted/floor mounted/glass mounted/wall mounted sensors, sensor control units	V	0.25	G/3	G/2
Assessment/Closed Circuit Television							
37	QYCCTV	QYCCTV--M-	Ceiling mounted/wall mounted CCTV	0	0.25	G/3	G/2
Security Dedicated Lighting							
40	QYLITE	QYLITE--M-	Ceiling mounted/pole mounted/wall mounted security lighting	0	0.25	G/3	G/2
Locking Devices							
44	QYLOCK	QYLOCK--M-	Electric/manual locking devices	0	0.25	G/3	G/2
Security Wiring/Circuits							
47	QYWIRE	QYWIRE--M-	Security wiring/circuits	0	0.18	B/5	B/1
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Elevations - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
38	QYELEV	QYELEV--M-	Miscellaneous fixtures, building outlines, signage, component identification numbers, textures	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Equipment - Security Systems

Model File Type: Riser Diagrams - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	QYANNO-DIMS	QY----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	QYANNO-KEYN	QY----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	QYANNO-NOTE	QY----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	QYANNO-NPLT	QY----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	QYANNO-PATT	QY----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	QYANNO-SYMB	QY----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	QYANNO-TEXT	QY----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	QYANNO-XREF	QY----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Access Control							
11	QYACCC	QYACCC--M-	Exterior mounted access control devices, access control units/panels	0	0.25	G/3	G/2
Annunciation							
14	QYANCN	QYANCN--M-	Annunciation equipment control units/panels, remote stations	0	0.25	G/3	G/2
Barriers							
18	QYBARR	QYBARR--M-	Sensors	0	0.25	G/3	G/2
Communications							
22	QYCOMM	QYCOMM--M-	Intercoms/speakers, communication panels	0	0.25	G/3	G/2
Sensors							
34	QYSENS	QYSENS--M-	Sensor control unit	0	0.25	G/3	G/2
Security Dedicated Lighting							
40	QYLITE	QYLITE--M-	Ceiling/pole/wall mounted security lighting	0	0.25	G/3	G/2
Locking Devices							
44	QYLOCK	QYLOCK--M-	Electric locking devices	0	0.25	G/3	G/2
Security Wiring/Circuits							
47	QYWIRE	QYWIRE--M-	Security wiring/circuits	0	0.18	B/5	B/1
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	QYSTAT-DEMO	QY------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	QYSTAT-EXST	QY------M-E	Existing to remain	0	0.25	G/3	G/2
52	QYSTAT-FUTR	QY------M-F	Future work	7	0.35	Y/2	Y/4
53	QYSTAT-MOVE	QY------M-M	Items to be moved	6	0.35	M/6	M/5
54	QYSTAT-NEWW	QY------M-N	New work	0	0.50	C/4	C/7
55	QYSTAT-NICN	QY------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	QYSTAT-PHS#	QY------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	QYSTAT-RELO	QY------M-R	Relocated items	2	0.18	B/5	B/1
58	QYSTAT-TEMP	QY------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
na	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	F-DEMO	F-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Sprinkler Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
CO2 Sprinkler System							
11	F-CO2S	F-CO2S--M-	Equipment and piping	0	0.35	V	V
Aqueous Film Forming Foam System							
14	F-AFFF	F-AFFF--M-	Equipment and piping	0	0.35	V	V
Halon System							
17	F-HALN	F-HALN--M-	Equipment and piping	0	0.25	R/1	R/3
Inert Gas							
20	F-IGAS	F-IGAS--M-	Equipment and piping	0	0.25	G/3	G/2
Sprinkler System							
23	F-SPRN	F-SPRN--M-	Combination system, sprinkler piping, upright/pendant/other sprinklers	0	V	V	V
Fire Protection/Suppression System							
30	F-PROT	F-PROT--M-	Equipment (fire hose cabinets, extinguishers)	0	0.35	Y/2	Y/4
Fire Alarm System							
33	F-ALRM	F-ALRM--M-	Smoke detectors, heat sensors	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
52	F-STAT-FUTR	F-------M-F	Future work	7	0.35	Y/2	Y/4
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
54	F-STAT-NEWW	F-------M-N	New work	0	0.50	C/4	C/7
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Fire Protection/Suppression

Model File Type: Riser Diagrams

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	F-ANNO-DIMS	F-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	F-ANNO-KEYN	F-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	F-ANNO-NOTE	F-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	F-ANNO-NPLT	F-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	F-ANNO-PATT	F-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	F-ANNO-SYMB	F-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	F-ANNO-TEXT	F-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	F-ANNO-XREF	F-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
CO2 Sprinkler System							
11	F-CO2S	F-CO2S--M-	Equipment and piping	0	0.35	V	V
Aqueous Film Forming Foam System							
14	F-AFFF	F-AFFF--M-	Equipment and piping	0	0.35	V	V
Halon System							
17	F-HALN	F-HALN--M-	Equipment and piping	0	0.25	R/1	R/3
Inert Gas							
20	F-IGAS	F-IGAS--M-	Equipment and piping	0	0.25	G/3	G/2
Sprinkler System							
23	F-SPRN	F-SPRN--M-	Combination system, sprinkler piping, upright/pendant/other sprinklers	0	V	V	V
Fire Protection/Suppression System							
30	F-PROT	F-PROT--M-	Equipment (fire hose cabinets, extinguishers)	0	0.35	Y/2	Y/4
Fire Alarm System							
33	F-ALRM	F-ALRM--M-	Smoke detectors, heat sensors	0	0.25	G/3	G/2
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	F-STAT-DEMO	F-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	F-STAT-EXST	F-------M-E	Existing to remain	0	0.25	G/3	G/2
52	F-STAT-FUTR	F-------M-F	Future work	7	0.35	Y/2	Y/4
53	F-STAT-MOVE	F-------M-M	Items to be moved	6	0.35	M/6	M/5
54	F-STAT-NEWW	F-------M-N	New work	0	0.50	C/4	C/7
55	F-STAT-NICN	F-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	F-STAT-PHS#	F-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	F-STAT-RELO	F-------M-R	Relocated items	2	0.18	B/5	B/1
58	F-STAT-TEMP	F-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	P-DEMO	P-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Piping Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Domestic Water Piping System							
11	P-DOMW	P-DOMW--M-	Domestic hot and cold water piping/equipment/risers, filtered water piping	V	V	V	V
Sanitary Drainage Piping							
21	P-SANR	P-SANR--M-	Fixtures, equipment, floor drains, cleanouts, piping, risers, vent piping	V	V	V	V
Storm Drainage Piping							
31	P-STRM	P-STRM--M-	Storm drain piping/risers, roof drains/piping	V	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
52	P-STAT-FUTR	P-------M-F	Future work	7	0.35	Y/2	Y/4
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
54	P-STAT-NEWW	P-------M-N	New work	0	0.50	C/4	C/7
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Plumbing

Model File Type: Riser Diagrams - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	P-ANNO-DIMS	P-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	P-ANNO-KEYN	P-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	P-ANNO-NOTE	P-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	P-ANNO-NPLT	P-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	P-ANNO-PATT	P-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	P-ANNO-SYMB	P-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	P-ANNO-TEXT	P-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	P-ANNO-XREF	P-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Domestic Water Piping System							
11	P-DOMW	P-DOMW--M-	Domestic hot and cold water piping/equipment/risers, filtered water piping	V	V	V	V
Sanitary Drainage Piping							
21	P-SANR	P-SANR--M-	Fixtures, equipment, floor drains, cleanouts, piping, risers, vent piping	V	V	V	V
Storm Drainage Piping							
31	P-STRM	P-STRM--M-	Storm drain piping/risers, roof drains/piping	V	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	P-STAT-DEMO	P-------M-D	Demolition	2	0.35	M/6	M/5
51	P-STAT-EXST	P-------M-E	Existing to remain	0	0.25	G/3	G/2
52	P-STAT-FUTR	P-------M-F	Future work	7	0.35	Y/2	Y/4
53	P-STAT-MOVE	P-------M-M	Items to be moved	6	0.35	M/6	M/5
54	P-STAT-NEWW	P-------M-N	New work	0	0.50	C/4	C/7
55	P-STAT-NICN	P-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	P-STAT-PHS#	P-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	P-STAT-RELO	P-------M-R	Relocated items	2	0.18	B/5	B/1
58	P-STAT-TEMP	P-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	M-DEMO	M-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: HVAC Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ductwork and Equipment							
11	M-HVAC	M-HVAC--M-	Equipment access doors, air system equipment, return/supply ductwork, ceiling diffusers, diffuser tags, return air/supply diffusers	0	V	V	V
Exhaust							
23	M-EXHS	M-EXHS--M-	Exhaust air ceiling diffusers, ductwork, equipment	0	0.35	V	V
Exhaust Makeup							
28	M-MKUP	M-MKUP--M-	Exhaust makeup air ceiling diffusers, ductwork, equipment	0	0.35	V	V
Industrial Exhaust							
33	M-INEX	M-INEX--M-	Industrial exhaust air ceiling diffusers, ductwork, equipment	0	0.35	V	V
Controls							
38	M-CONT	M-CONT--M-	Controls, instrumentation, sensors, and equipment, thermostats, low voltage wiring	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Piping Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Chilled Water System							
11	M-CWTR	M-CWTR--M-	Equipment, piping (includes fittings, valves, instrumentation)	0	V	V	V
Hot Water Heating System							
15	M-HWTR	M-HWTR--M-	Equipment, piping (includes fittings, valves, instrumentation)	0	0.35	V	V
Dual Temperature System							
18	M-DUAL	M-DUAL--M-	Equipment, piping (includes fittings, valves, instrumentation)	0	V	V	V
Steam System							
21	M-STEM	M-STEM--M-	Condensate piping, equipment, high/low/medium presure piping	0	V	V	V
Refrigeration System							
27	M-REFG	M-REFG--M-	Equipment, piping (includes fittings, valves, instrumentation)	0	0.35	V	V
Energy Recovery System							
30	M-RCOV	M-RCOV--M-	Equipment, piping (includes fittings, valves, instrumentation)	0	0.35	V	V
Fuel Systems							
33	M-FUEL	M-FUEL--M-	Equipment, fuel gas process/general piping, fuel oil general/process piping	0	V	V	V
Controls							
38	M-CONT	M-CONT--M-	Controls, instrumentation, sensors, and equipment, thermostats, low voltage wiring	0	0.35	Y/2	Y/4
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Specialty Piping and Equipment - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Brine Systems							
11	M-BRIN	M-BRIN--M-	Brine system equipment, piping	0	0.35	V	V
Dental Piping							
13	M-DENT	M-DENT--M-	Equipment, piping	0	0.35	V	V
Fuel Distribution Piping							
15	M-FUEL	M-FUEL--M-	Fuel distribution equipment, return/supply piping	0	0.35	V	V
High Pressure Compressed Air							
18	M-CMPH	M-CMPH--M-	High pressure equipment, governor or high pressure brake lines	0	0.35	V	V
Low Pressure Compressed Air							
20	M-CMPL	M-CMPL--M-	Shop and control air equipment/piping	0	0.35	V	V
Hydraulic Systems							
22	M-HYDR	M-HYDR--M-	Hydraulic system equipment/return piping/supply piping	0	0.35	V	V
Industrial Waste Piping							
25	M-ACID	M-ACID--M-	Acid, alkaline, and oil waste equipment/waste piping/waste vent piping	0	0.35	V	V
Insulating (Transformer) Oil							
28	M-INSL	M-INSL--M-	Insulating oil equipment/return piping/supply piping	0	0.35	V	V
Laboratory Piping							
31	M-LGAS	M-LGAS--M-	Equipment, piping	0	0.35	V	V
Lubrication Oil							
33	M-LUBE	M-LUBE--M-	Lubrication oil equipment/return piping/supply piping	0	0.35	V	V
Medical Gas Piping							
36	M-MDGS	M-MDGS--M-	Equipment, piping	0	0.35	V	V
Natural Gas (or Liquid Petroleum) Piping							
38	M-NGAS	M-NGAS--M-	Equipment, piping	0	0.35	V	V
Process Piping							
40	M-PROC	M-PROC--M-	Equipment, process/return/supply piping	0	0.35	V	V
Raw Water Piping							
44	M-RWTR	M-RWTR--M-	Raw water equipment/piping	0	0.35	V	V
Station Drainage							
46	M-STDN	M-STDN--M-	Station drainage equipment/piping	0	0.35	V	V

Discipline: Mechanical

Model File Type: Specialty Piping and Equipment - Simplified

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Machine Design - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Machine Design							
11	M-MACH	M-MACH--M-	Machinery bases, miscellaneous machinery parts and components, existing machinery, fasteners, nuts and bolts, large rotating machinery, machinery motors	0	0.35	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Material Handling - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Material Handling							
43	M-MATL	M-MATL--M-	Bridge cranes, jib cranes, and monorails, hoists, hooks, miscellaneous lifting equipment	0	0.35	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Controls Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Energy Management							
11	M-ENER	M-ENER--M-	Energy management equipment/wiring	0	0.35	M/6	M/5
Controls							
38	M-CONT	M-CONT--M-	Controls, instrumentation, diagrams, schematics, and equipment, thermostats, control wiring and tubing	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Elevations - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Elevations							
38	M-ELEV	M-ELEV--M-	Miscellaneous fixtures, component identification numbers, building outlines, plumbing fixtures	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Sections - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	M-ANNO-KEYN	M-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	M-ANNO-NOTE	M-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	M-ANNO-XREF	M-----XRP	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Sections							
45	M-SECT	M-SECT--M-	Component identification numbers, material beyond section cut, material cut by section	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	M-STAT-DEMO	M-------M-D	Demolition	2	0.35	M/6	M/5
51	M-STAT-EXST	M-------M-E	Existing to remain	0	0.25	G/3	G/2
52	M-STAT-FUTR	M-------M-F	Future work	7	0.35	Y/2	Y/4
53	M-STAT-MOVE	M-------M-M	Items to be moved	6	0.35	M/6	M/5
54	M-STAT-NEWW	M-------M-N	New work	0	0.50	C/4	C/7
55	M-STAT-NICN	M-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	M-STAT-PHS#	M-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	M-STAT-RELO	M-------M-R	Relocated items	2	0.18	B/5	B/1
58	M-STAT-TEMP	M-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Mechanical

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphic0			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	M-ANNO-DIMS	M-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	M-ANNO-NPLT	M-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	M-ANNO-PATT	M-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	M-ANNO-SYMB	M-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	M-ANNO-TEXT	M-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	M-DETL	M-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	E-DEMO	E-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Lighting Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Lighting							
12	E-LITE	E-LITE--M-	Electrical equipment, junction boxes, switches, lighting fixtures, circuit lines	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Power Plan - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Power							
10	E-POWR	E-POWR--M-	Electrical equipment, junction boxes, switches, motors/generators, circuit lines	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Auxiliary Power Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Auxiliary Power							
10	E-AUXL	E-AUXL--M-	Electrical equipment, junction boxes, switches, motors/generators, circuit lines	0	0.50	C/4	C/7
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Grounding System - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Ground System							
33	E-GRND	E-GRND--M-	Circuits, ground system diagrams, equipotential/reference/lightning protection ground system	0	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: One-Line Diagrams - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Control Circuit							
11	E-CNTL	E-CNTL--M-	Antenna, arrestor valves, batteries, capacitors, circuit boards, contacts, fuses, generators, grounds, meters, motors, overloads, reactors, relays, resistors, switches	V	0.25	G/3	G/2
One-Line Diagram Linework							
41	E-1LIN	E-1LIN--M-	Fine, thin, medium, wide, extra wide one-line linework	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical - Power

Model File Type: Riser Diagrams - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	E-ANNO-KEYN	E-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	E-ANNO-NOTE	E-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	E-ANNO-XREF	E-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Riser Diagram Linework							
41	E-RISR	E-RISR--M-	Fine, thin, medium, wide, extra wide riser diagram linework	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	E-STAT-DEMO	E-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	E-STAT-EXST	E-------M-E	Existing to remain	0	0.25	G/3	G/2
52	E-STAT-FUTR	E-------M-F	Future work	7	0.35	Y/2	Y/4
53	E-STAT-MOVE	E-------M-M	Items to be moved	6	0.35	M/6	M/5
54	E-STAT-NEWW	E-------M-N	New work	0	0.50	C/4	C/7
55	E-STAT-NICN	E-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	E-STAT-PHS#	E-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	E-STAT-RELO	E-------M-R	Relocated items	2	0.18	B/5	B/1
58	E-STAT-TEMP	E-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Electrical

Model File Type: Details - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	E-ANNO-DIMS	E-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
3	E-ANNO-NPLT	E-----NPP-	Construction lines, reference targets, area calculations, review comments	V	0.18	B/5	B/1
4	E-ANNO-PATT	E-----PAP-	Miscellaneous patterning	0	0.18	Gr/8	Gr/9
6	E-ANNO-SYMB	E-----SYP-	Reference bubbles, matchlines and breaklines	V	0.35	M/6	M/5
7	E-ANNO-TEXT	E-----TEP-	Detail title text, text and associated leaderlines and arrowheads, notes	V	V	V	V
Detail Information							
9	E-DETL	E-DETL--M-	Detail linework	0	V	V	V

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Demolition Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Demolition							
60	T-DEMO	T-------M-D	Hazardous waste (see HTRW Model File Type: Demolition Plan for more extensive projects)	0	0.35	M/6	M/5
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	T-STAT-DEMO	T-------M-D	Demolition	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Communication System Plan - Simplified

Level #	Level/Layer Naming: AIA Format	Level/Layer Naming: ISO Format	Level/Layer Description	Graphics: Line Style	Graphics: Line Width (mm)	Graphics: AutoCAD Line Color/#	Graphics: MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Electrical Equipment							
11	T-ELEC	T-ELEC--M-	Identifiers and leaderlines, physical outline of electrical equipment	0	V	V	V
Junction Boxes							
14	T-COMM	T-COMM--M-	Junction boxes	0	0.35	M/6	M/5
Bell System							
16	T-BELL	T-BELL--M-	Identifier tags, symbol modifier, and text, bell system symbols	0	V	V	V
Central Dictation System							
18	T-DICT	T-DICT--M-	Identifier tags, symbol modifier, and text, central dictation system symbols	0	V	V	V
Clock System							
20	T-CLOK	T-CLOK--M-	Identifier tags, symbol modifier, and text, clock system symbols	0	V	V	V
Miscellaneous Alarm System							
22	T-ALRM	T-ALRM--M-	Identifier tags, symbol modifier, and text, miscellaneous alarm system symbols	0	V	V	V
Nurse Call Systems							
24	T-NURS	T-NURS--M-	Identifier tags, symbol modifier, and text, nurse call system symbols	0	V	V	V
Sound System							
26	T-SOUN	T-SOUN--M-	Identifier tags, symbol modifier, and text, sound system symbols	0	V	V	V
Telephone System							
28	T-PHON	T-PHON--M-	Identifier tags, symbol modifier, and text, telephone system symbols	0	V	V	V
Television System							
30	T-CCTV	T-CCTV--M-	Identifier tags, symbol modifier, and text, television antenna system symbols	0	V	V	V
Data/LAN System							
33	T-DATA	T-DATA--M-	Identifier tags, symbol modifier, and text, data/LAN system symbols	0	V	V	V
Intercom/Public Address System							
35	T-INTC	T-INTC--M-	Identifier tags, symbol modifier, and text, intercom/PA system symbols	0	V	V	V
Fire Alarm and Detection Systems							
38	T-FIRE	T-FIRE--M-	Identifier tags, symbol modifier, and text, fire alarm and detection system symbols	0	V	V	V
Energy Monitoring Control Systems							
40	T-EMCS	T-EMCS--M-	Identifier tags, symbol modifier, and text, energy monitoring control system symbols	0	V	V	V
Security Systems							
42	T-SERT	T-SERT--M-	Identifier tags, symbol modifier, and text, security system symbols	0	V	V	V
Wiring System							
44	T-COMM	T-COMM--M-	Coax cable, fiber optics cable, cable identifiers, multi-conductor cable, cable tray and wireway symbols	V	V	V	V

Discipline: Telecommunications

Model File Type: Communication System Plan - Simplified

Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)								
50	T-STAT-DEMO	T-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
52	T-STAT-FUTR	T-------M-F	Future work	7	0.35	Y/2	Y/4
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
54	T-STAT-NEWW	T-------M-N	New work	0	0.50	C/4	C/7
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Discipline: Telecommunications

Model File Type: Block/Riser Diagrams - Simplified

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color/#	MicroStation Line Color/#
General Information							
1	T-ANNO-DIMS	T-----DIP-	Witness/extension lines, dimension arrowheads/dots/slashes, dimension text	0	V	V	V
2	T-ANNO-KEYN	T-----KEP-	Keynotes with associated leaderlines and arrowheads, ConDoc keynotes	0	V	V	V
5	T-ANNO-NOTE	T-----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	T-ANNO-NPLT	T-----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	T-ANNO-PATT	T-----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	T-ANNO-SYMB	T-----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	T-ANNO-TEXT	T-----TEP-	Miscellaneous text and callouts with associated leaderlines and arrowheads	0	V	V	V
NA	T-ANNO-XREF	T-----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Block/Riser Diagram Linework							
41	T-RISR	T-RISR--M-	Fine, thin, medium, wide, or extra wide block/riser linework	V	V	V	V
Status Layers (Note: Levels/Layers representing the dominant type of work (status) are listed above and have no status)							
50	T-STAT-DEMO	T-------M-D	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	0.35	M/6	M/5
51	T-STAT-EXST	T-------M-E	Existing to remain	0	0.25	G/3	G/2
52	T-STAT-FUTR	T-------M-F	Future work	7	0.35	Y/2	Y/4
53	T-STAT-MOVE	T-------M-M	Items to be moved	6	0.35	M/6	M/5
54	T-STAT-NEWW	T-------M-N	New work	0	0.50	C/4	C/7
55	T-STAT-NICN	T-------M-X	Not in contract	3	0.18	Gr/8	Gr/9
56	T-STAT-PHS#	T-------M------#	Phase numbers (#=1-9)	0	0.35	Y/2	Y/4
57	T-STAT-RELO	T-------M-R	Relocated items	2	0.18	B/5	B/1
58	T-STAT-TEMP	T-------M-T	Temporary work	4	0.50	C/4	C/7

Note: V = Varies, NA = Not Applicable

Appendix D
Color Comparison and Associated Line Widths

Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
1	3	1	0.25	0.010
2	4	2	0.35	0.014
3	2	1	0.25	0.010
4	7	3	0.50	0.020
5	1	0	0.18	0.007
6	5	2	0.35	0.014
7	0	5	0.70	0.028
8	9	0	0.18	0.007
9	14	15	2.00	0.079
10	10	0	0.18	0.007
11	19	1	0.25	0.010
12	27	2	0.35	0.014
13	35	3	0.50	0.020
14	43	5	0.70	0.028
15	51	7	1.00	0.039
16	59	10	1.40	0.055
17	67	5	0.70	0.028
18	75	2	0.35	0.014
19	83	15	2.00	0.079
20	6	0	0.18	0.007
21	30	1	0.25	0.010
22	22	2	0.35	0.014
23	46	3	0.50	0.020
24	38	5	0.70	0.028
25	62	7	1.00	0.039
26	54	10	1.40	0.055
27	78	5	0.70	0.028
28	70	2	0.35	0.014
29	94	15	2.00	0.079
30	86	0	0.18	0.007
31	110	1	0.25	0.010
32	102	2	0.35	0.014
33	126	3	0.50	0.020
34	118	5	0.70	0.028
35	142	7	1.00	0.039
36	134	10	1.40	0.055
37	158	5	0.70	0.028
38	150	2	0.35	0.014
39	174	15	2.00	0.079
40	166	0	0.18	0.007
41	190	1	0.25	0.010
42	182	2	0.35	0.014
43	206	3	0.50	0.020
44	198	5	0.70	0.028
45	222	7	1.00	0.039
46	214	10	1.40	0.055
47	238	5	0.70	0.028
48	230	2	0.35	0.014
49	251	15	2.00	0.079

Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
50	20	0	0.18	0.007
51	28	1	0.25	0.010
52	36	2	0.35	0.014
53	44	3	0.50	0.020
54	52	5	0.70	0.028
55	60	7	1.00	0.039
56	68	10	1.40	0.055
57	76	5	0.70	0.028
58	84	2	0.35	0.014
59	92	15	2.00	0.079
60	100	0	0.18	0.007
61	108	1	0.25	0.010
62	116	2	0.35	0.014
63	124	3	0.50	0.020
64	132	5	0.70	0.028
65	140	7	1.00	0.039
66	148	10	1.40	0.055
67	156	5	0.70	0.028
68	164	2	0.35	0.014
69	172	15	2.00	0.079
70	180	0	0.18	0.007
71	188	1	0.25	0.010
72	196	2	0.35	0.014
73	204	3	0.50	0.020
74	212	5	0.70	0.028
75	220	7	1.00	0.039
76	228	10	1.40	0.055
77	236	5	0.70	0.028
78	244	2	0.35	0.014
79	252	15	2.00	0.079
80	11	0	0.18	0.007
81	26	1	0.25	0.010
82	18	2	0.35	0.014
83	42	3	0.50	0.020
84	34	5	0.70	0.028
85	58	7	1.00	0.039
86	50	10	1.40	0.055
87	74	5	0.70	0.028
88	66	2	0.35	0.014
89	90	15	2.00	0.079
90	82	0	0.18	0.007
91	106	1	0.25	0.010
92	98	2	0.35	0.014
93	122	3	0.50	0.020
94	114	5	0.70	0.028
95	138	7	1.00	0.039
96	130	10	1.40	0.055
97	154	5	0.70	0.028
98	146	2	0.35	0.014

Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
99	170	15	2.00	0.079
100	162	0	0.18	0.007
101	186	1	0.25	0.010
102	178	2	0.35	0.014
103	202	3	0.50	0.020
104	194	5	0.70	0.028
105	218	7	1.00	0.039
106	210	10	1.40	0.055
107	234	5	0.70	0.028
108	226	2	0.35	0.014
109	250	15	2.00	0.079
110	242	0	0.18	0.007
111	246	1	0.25	0.010
112	247	2	0.35	0.014
113	16	3	0.50	0.020
114	32	5	0.70	0.028
115	48	7	1.00	0.039
116	64	10	1.40	0.055
117	80	5	0.70	0.028
118	96	2	0.35	0.014
119	112	15	2.00	0.079
120	12	0	0.18	0.007
121	15	1	0.25	0.010
122	23	2	0.35	0.014
123	31	3	0.50	0.020
124	39	5	0.70	0.028
125	47	7	1.00	0.039
126	55	10	1.40	0.055
127	63	5	0.70	0.028
128	71	2	0.35	0.014
129	79	15	2.00	0.079
130	87	0	0.18	0.007
131	95	1	0.25	0.010
132	103	2	0.35	0.014
133	111	3	0.50	0.020
134	119	5	0.70	0.028
135	127	7	1.00	0.039
136	135	10	1.40	0.055
137	143	5	0.70	0.028
138	151	2	0.35	0.014
139	159	15	2.00	0.079
140	167	0	0.18	0.007
141	175	1	0.25	0.010
142	183	2	0.35	0.014
143	191	3	0.50	0.020
144	199	5	0.70	0.028
145	207	7	1.00	0.039
146	215	10	1.40	0.055
147	223	5	0.70	0.028

Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
148	231	2	0.35	0.014
149	239	15	2.00	0.079
150	40	0	0.18	0.007
151	72	1	0.25	0.010
152	88	2	0.35	0.014
153	104	3	0.50	0.020
154	136	5	0.70	0.028
155	152	7	1.00	0.039
156	184	10	1.40	0.055
157	216	5	0.70	0.028
158	232	2	0.35	0.014
159	248	15	2.00	0.079
160	17	0	0.18	0.007
161	25	1	0.25	0.010
162	33	2	0.35	0.014
163	41	3	0.50	0.020
164	49	5	0.70	0.028
165	57	7	1.00	0.039
166	65	10	1.40	0.055
167	73	5	0.70	0.028
168	81	2	0.35	0.014
169	89	15	2.00	0.079
170	97	0	0.18	0.007
171	105	1	0.25	0.010
172	113	2	0.35	0.014
173	121	3	0.50	0.020
174	129	5	0.70	0.028
175	137	7	1.00	0.039
176	145	10	1.40	0.055
177	153	5	0.70	0.028
178	161	2	0.35	0.014
179	169	15	2.00	0.079
180	177	0	0.18	0.007
181	185	1	0.25	0.010
182	193	2	0.35	0.014
183	201	3	0.50	0.020
184	209	5	0.70	0.028
185	217	7	1.00	0.039
186	225	10	1.40	0.055
187	233	5	0.70	0.028
188	241	2	0.35	0.014
189	249	15	2.00	0.079
190	245	0	0.18	0.007
191	128	1	0.25	0.010
192	144	2	0.35	0.014
193	160	3	0.50	0.020
194	176	5	0.70	0.028
195	192	7	1.00	0.039
196	208	10	1.40	0.055

Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
197	224	5	0.70	0.028
198	240	2	0.35	0.014
199	254	15	2.00	0.079
200	13	0	0.18	0.007
201	29	1	0.25	0.010
202	21	2	0.35	0.014
203	45	3	0.50	0.020
204	37	5	0.70	0.028
205	61	7	1.00	0.039
206	53	10	1.40	0.055
207	77	5	0.70	0.028
208	69	2	0.35	0.014
209	93	15	2.00	0.079
210	85	0	0.18	0.007
211	109	1	0.25	0.010
212	101	2	0.35	0.014
213	125	3	0.50	0.020
214	117	5	0.70	0.028
215	141	7	1.00	0.039
216	133	10	1.40	0.055
217	157	5	0.70	0.028
218	149	2	0.35	0.014
219	173	15	2.00	0.079
220	165	0	0.18	0.007
221	189	1	0.25	0.010
222	181	2	0.35	0.014
223	205	3	0.50	0.020
224	197	5	0.70	0.028
225	221	7	1.00	0.039
226	213	10	1.40	0.055
227	237	5	0.70	0.028
228	229	2	0.35	0.014
229	253	15	2.00	0.079
230	91	0	0.18	0.007
231	99	1	0.25	0.010
232	107	2	0.35	0.014
233	115	3	0.50	0.020
234	123	5	0.70	0.028
235	131	7	1.00	0.039
236	139	10	1.40	0.055
237	147	5	0.70	0.028
238	155	2	0.35	0.014
239	163	15	2.00	0.079
240	171	0	0.18	0.007
241	179	1	0.25	0.010
242	187	2	0.35	0.014
243	195	3	0.50	0.020
244	203	5	0.70	0.028
245	211	7	1.00	0.039

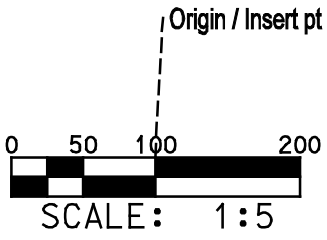
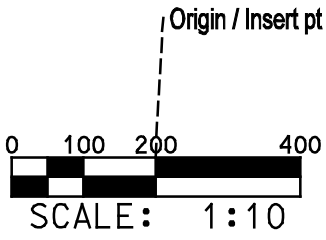
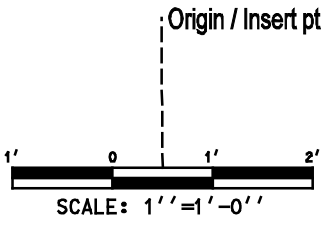
Appendix D
Color Comparison and Associated Line Widths

AutoCAD Color No.	MicroStation Color No.	MicroStation Line Weight	Pen Plotter Pen, mm	Laser/Elec InkJet, in.
246	219	10	1.40	0.055
247	227	5	0.70	0.028
248	235	2	0.35	0.014
249	243	15	2.00	0.079
250	8	1	0.25	0.010
251	200	2	0.35	0.014
252	168	3	0.50	0.020
253	120	5	0.70	0.028
254	56	7	1.00	0.039
255	24	15	2.00	0.079

1 General Drafting Lines Library

General Drafting: CONLMT
CONSTRUCTION LIMIT
Element Type: Line

1 General Drafting Objects Library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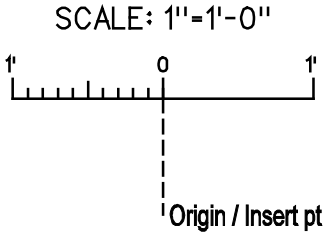		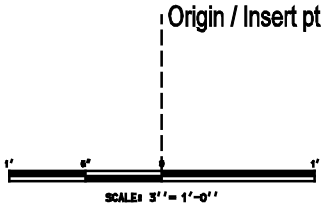
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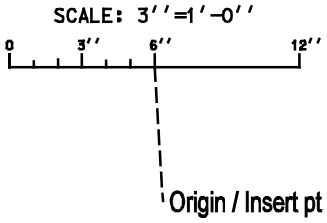	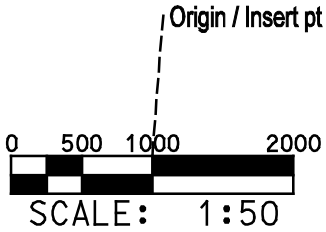	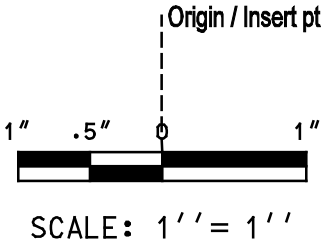
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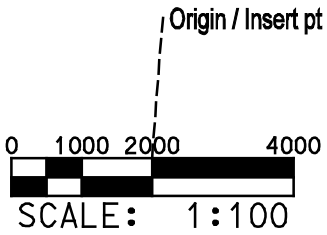	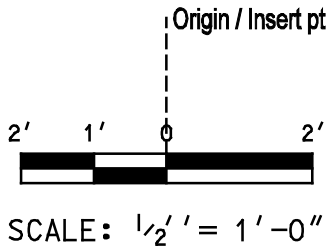	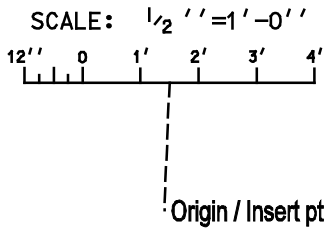
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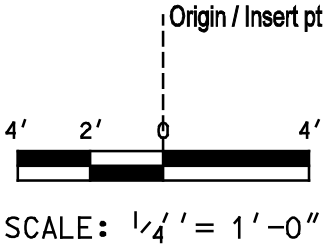	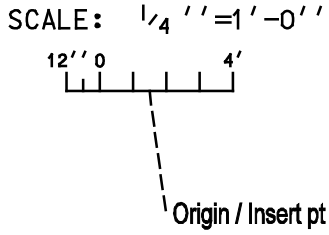	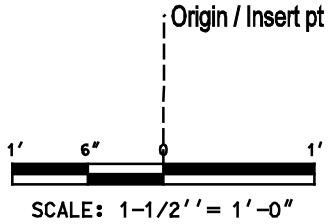
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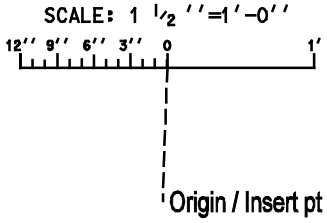	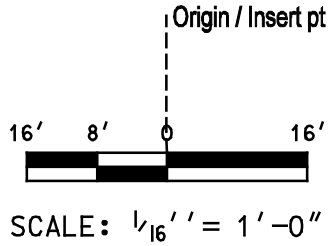	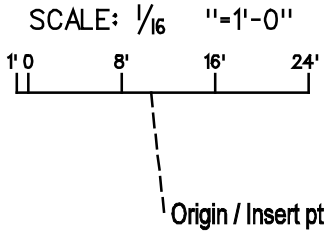
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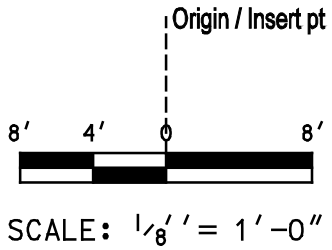	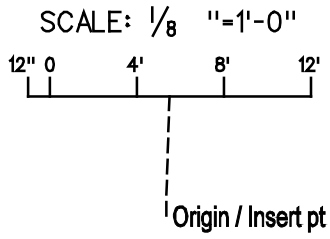	
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	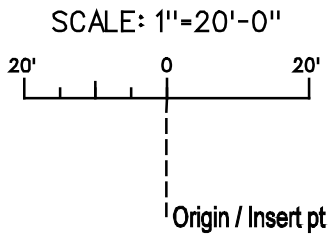	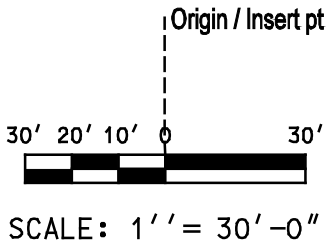
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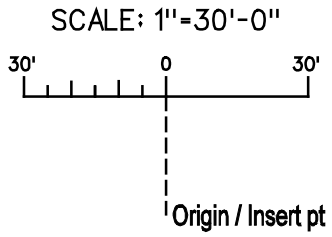	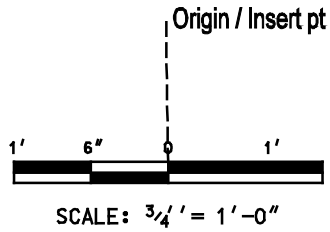	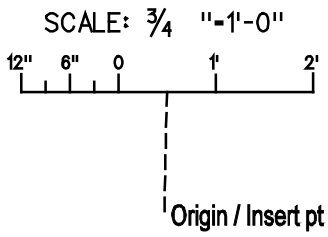
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	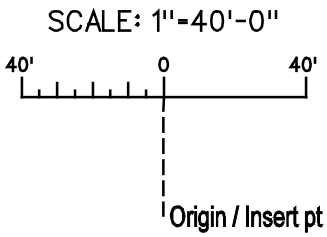	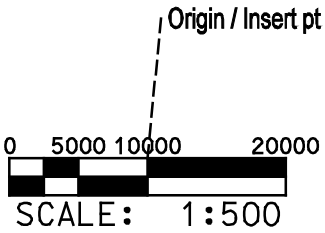
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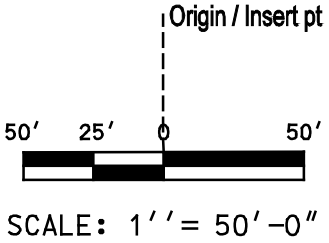	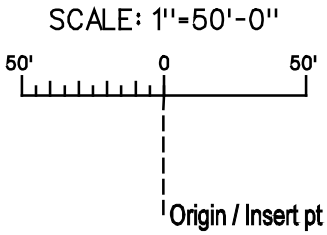	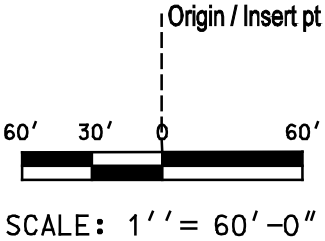
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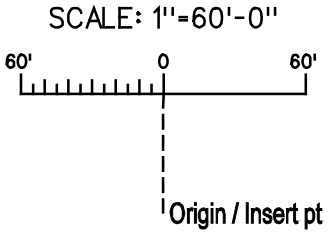	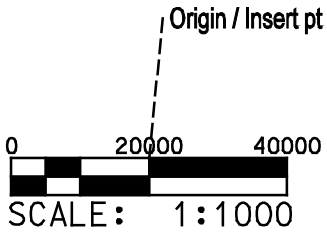	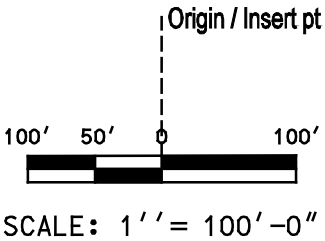
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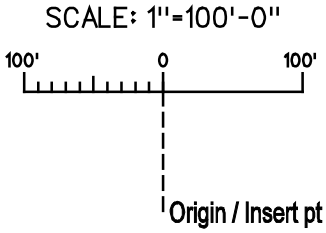	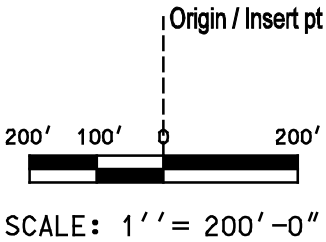	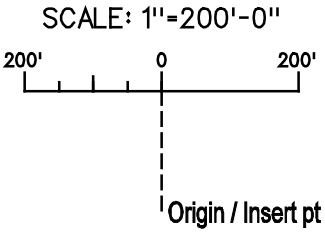
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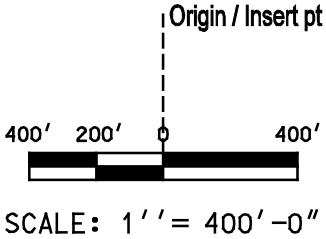	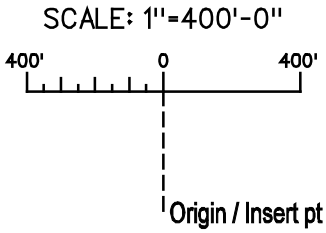	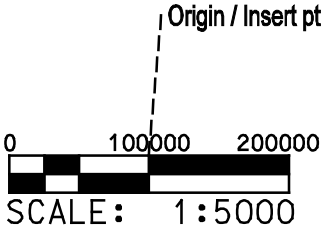
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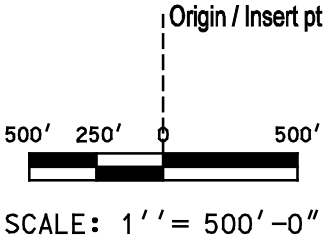	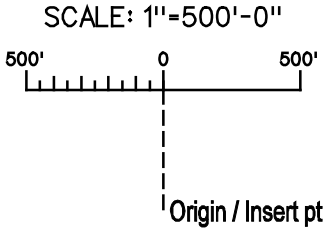	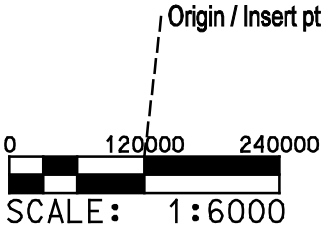
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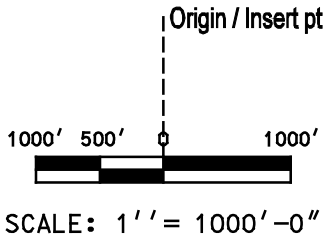
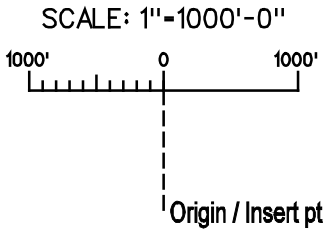
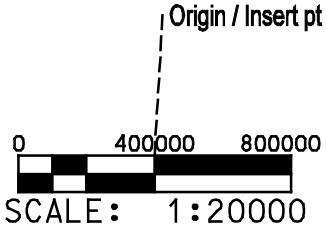
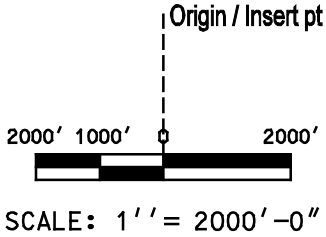
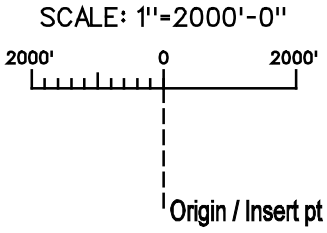
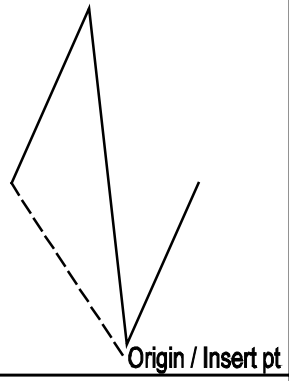
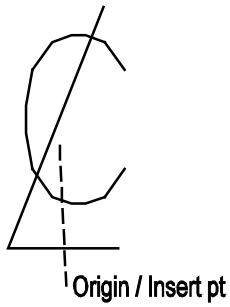
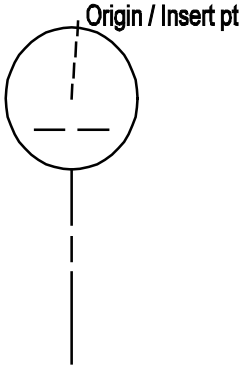
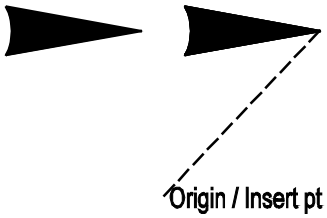
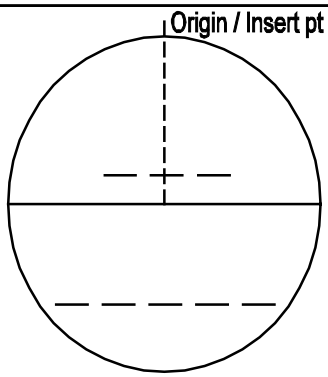
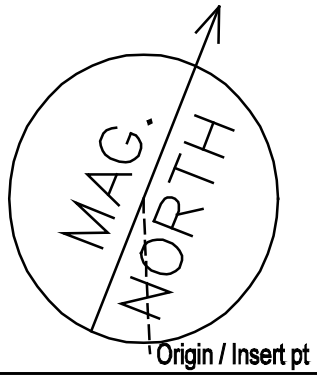
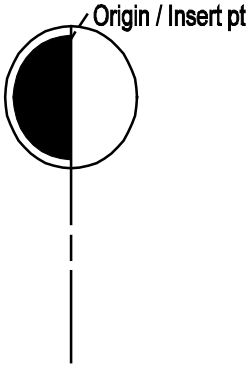
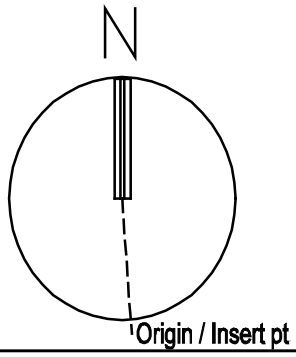
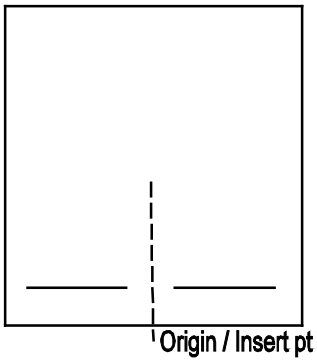
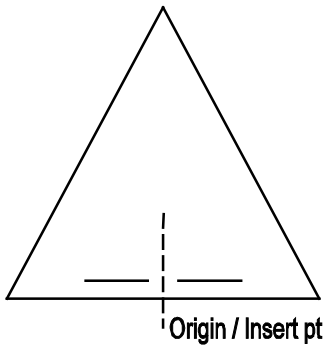
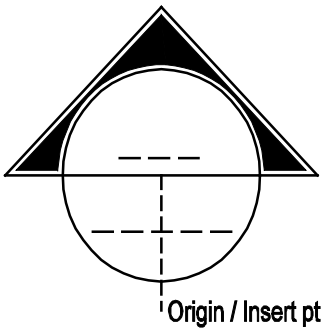
		
General: S10000 SCALE 1 EQ 10000 Element Type: Object	General: S1000B SCALE 1IN EQ 1000FT Element Type: Object	General: S1000G SCALE 1IN EQ 1000FT Element Type: Object
		
General: S20000 SCALE 1 EQ 20000 Element Type: Object	General: S2000B SCALE 1IN EQ 2000FT Element Type: Object	General: S2000G SCALE 1IN EQ 2000FT Element Type: Object

1 General Drafting Symbols Library

		
General: BREAK BREAK LINE SYMBOL Element Type: Symbol	General: CNTLIN CENTERLINE SYMBOL Element Type: Symbol	General: COLLIN COLUMN LINE GRID INDIC Element Type: Symbol
		
General: DBLARR DOUBLE ARROW TERMINATO Element Type: Symbol	General: DTLIND DETAIL INDICATOR Element Type: Symbol	General: MAGNOR MAGNETIC NORTH ARROW Element Type: Symbol
		
General: MATIND MATCH LINE INDICATOR Element Type: Symbol	General: NORIND NORTH INDICATOR Element Type: Symbol	General: NOTIND NOTE INDICATOR Element Type: Symbol

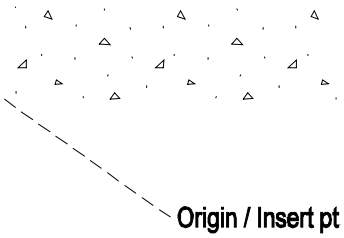
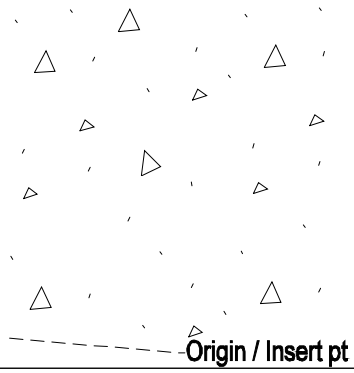
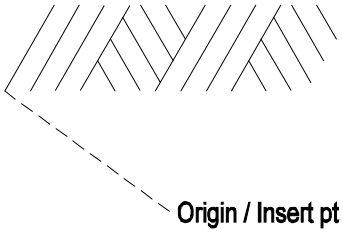
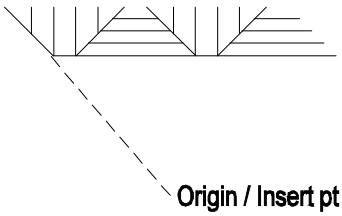
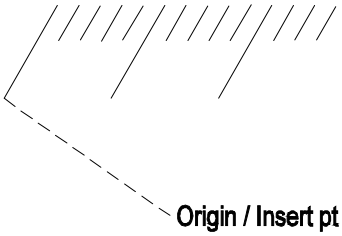
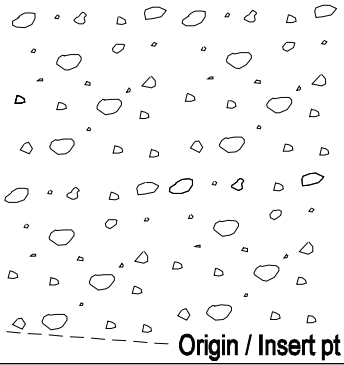
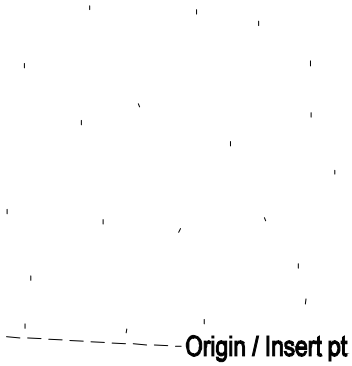
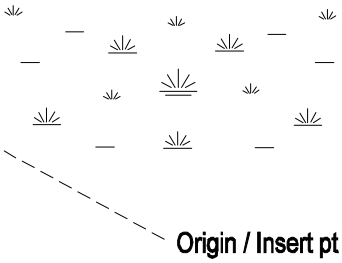
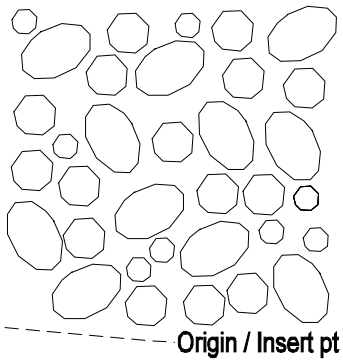
	
General: REVIND REVISION INDICATOR Element Type: Symbol	General: SECIND SECTION INDICATOR Element Type: Symbol

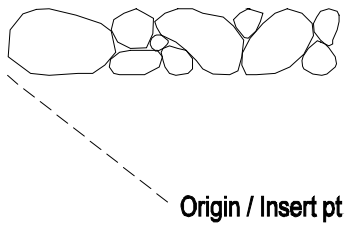
2 Survey and Mapping Lines Library

Survey and Mapping: CMP12 CMP 12 IN DIAM LINEAR Element Type: Line	Survey and Mapping: CMPU12 CMP UPTO 12 IN DIAM LINEAR Element Type: Line	Survey and Mapping: DITCH DITCH LINE Element Type: Line
Survey and Mapping: FENCE FENCE LINE Element Type: Line	Survey and Mapping: GUARD GUARDRAIL Element Type: Line	Survey and Mapping: INDXDC INDEX DEPTH CONTOUR Element Type: Line
Survey and Mapping: MINRDC MINOR DEPTH CONTOUR Element Type: Line	Survey and Mapping: PROJBL PROJECT BOUNDARY LINE Element Type: Line	Survey and Mapping: RAILS SINGLE RAILROAD Element Type: Line

R/W		
Survey and Mapping: RTOFWY RIGHT OF WAY Element Type: Line	Survey and Mapping: TREEL TREE LINE Element Type: Line	Survey and Mapping: WTRPL WATER OR POOL LINE Element Type: Line

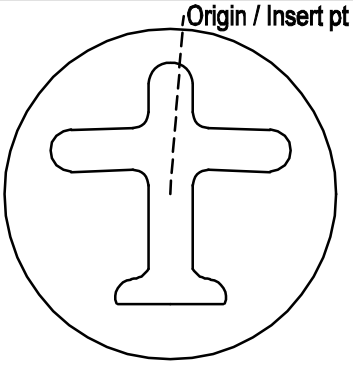
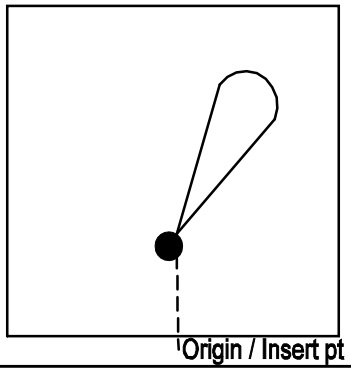
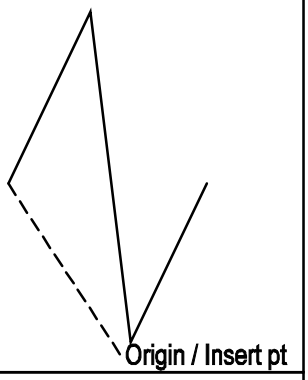
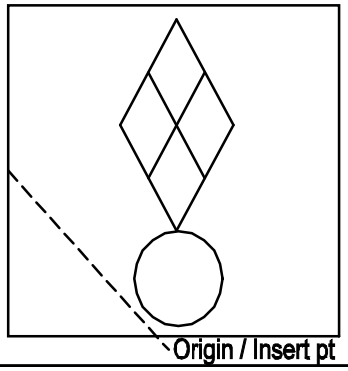
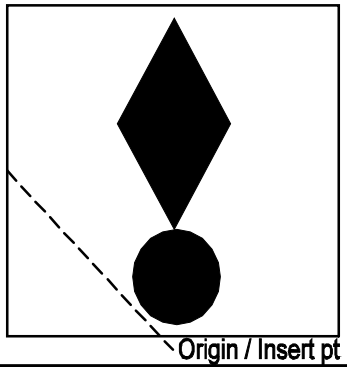
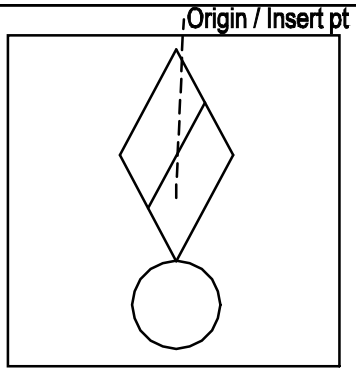
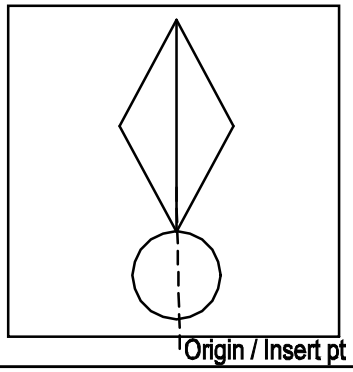
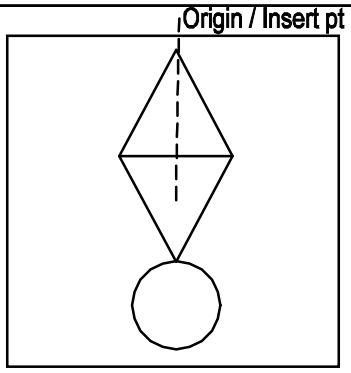
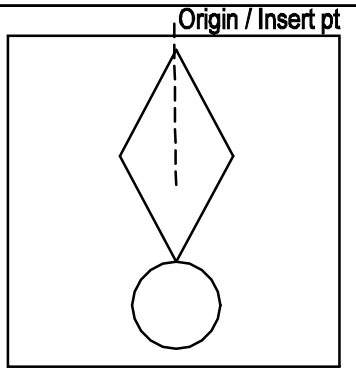
2 Surveying and Mapping Pattern Library

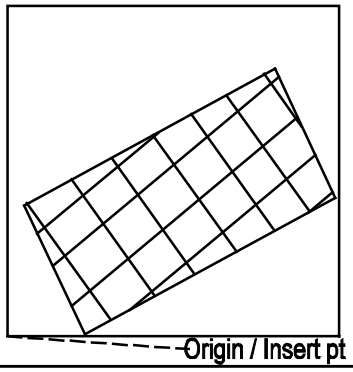
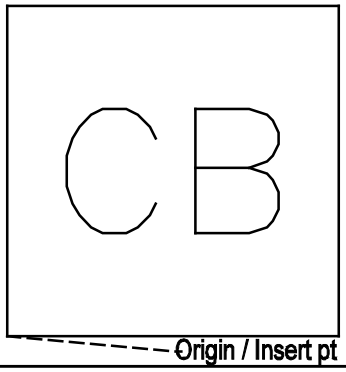
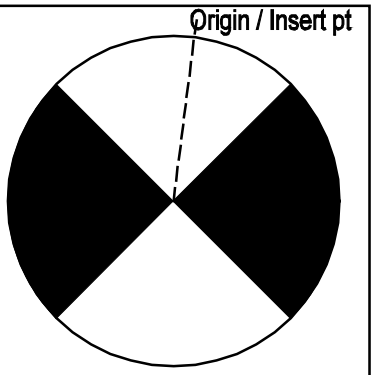
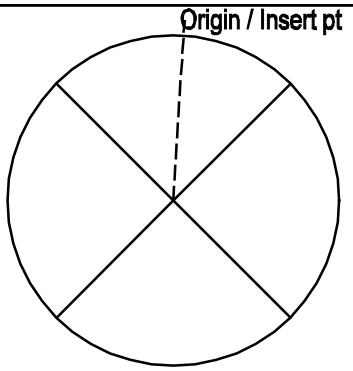
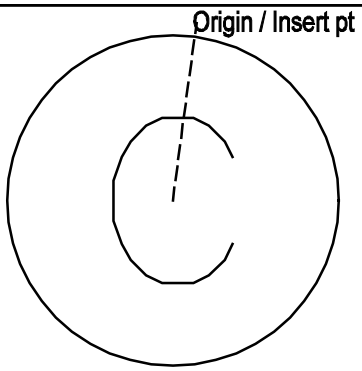
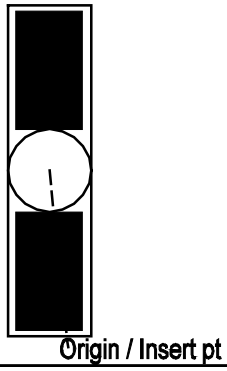
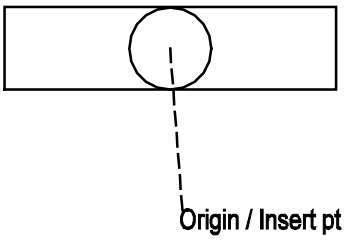
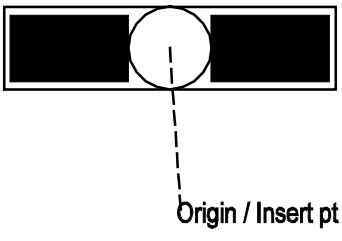
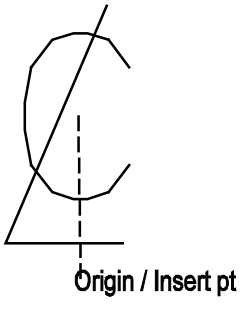
		
Survey and Mapping: CONC CONCRETE Element Type: Pattern	Survey and Mapping: CONCST CONCRETE STONE Element Type: Pattern	Survey and Mapping: EEARTH EXISTING EARTH Element Type: Pattern
		
Survey and Mapping: EROCK EXISTING ROCK Element Type: Pattern	Survey and Mapping: FILLSC FILL SECTION Element Type: Pattern	Survey and Mapping: GRAVEL GRAVEL Element Type: Pattern
		
Survey and Mapping: GROUT GROUT Element Type: Pattern	Survey and Mapping: LSWAMP LARGE SWAMP Element Type: Pattern	Survey and Mapping: POROUS POROUS Element Type: Pattern

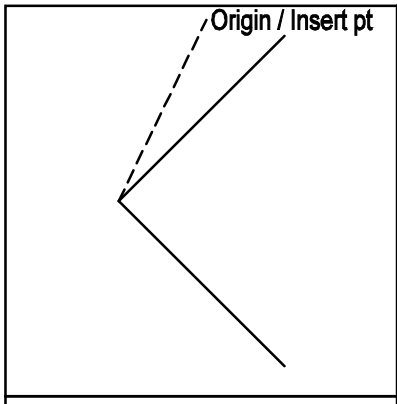
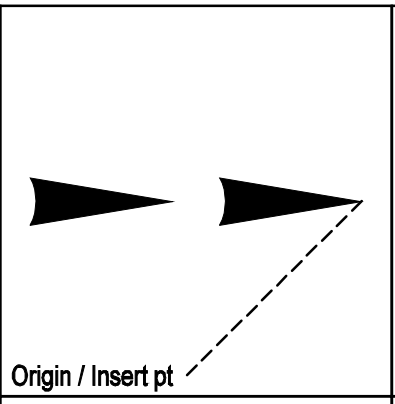
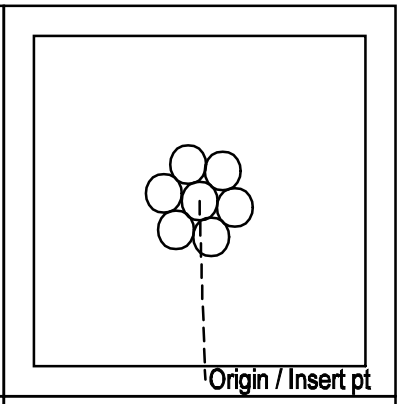
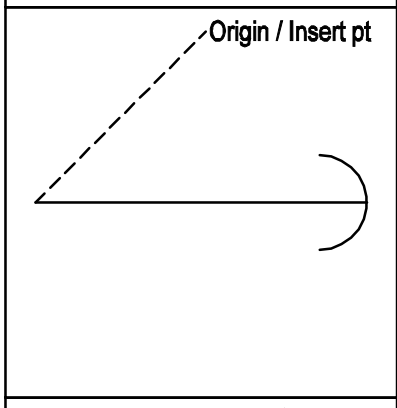
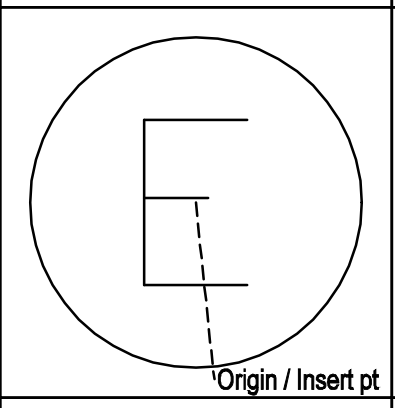
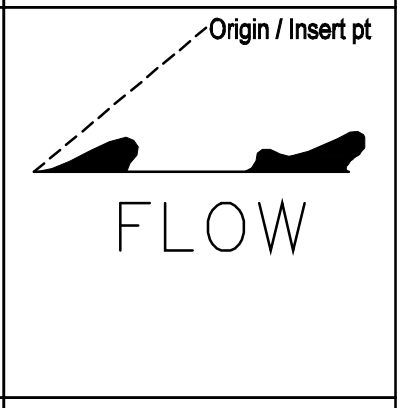
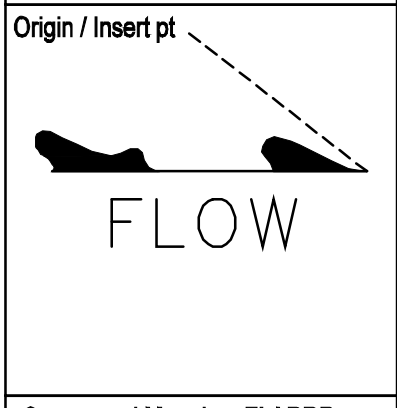
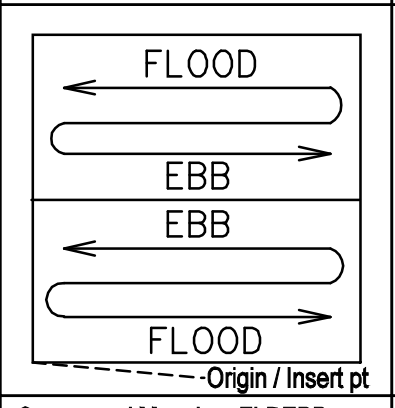
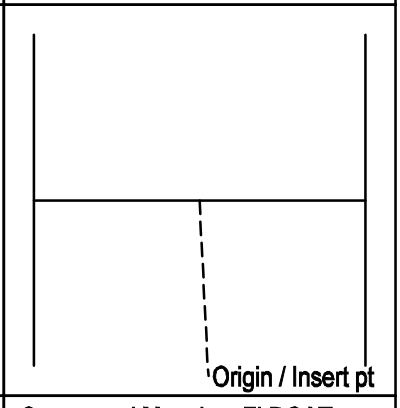


Survey and Mapping: RIPRAP
RIPRAP
Element Type: Pattern

2 Surveying and Mapping Symbols Library

		
Survey and Mapping: AIRFLD AIRFIELD SYMBOL Element Type: Symbol	Survey and Mapping: BEACON BEACON Element Type: Symbol	Survey and Mapping: BREAK BREAK LINE SYMBOL Element Type: Symbol
		
Survey and Mapping: BUOYCH CHECKERED BUOY Element Type: Symbol	Survey and Mapping: BUOYCN CAN BUOY Element Type: Symbol	Survey and Mapping: BUOYDB DIAGONAL BANDS BUOY Element Type: Symbol
		
Survey and Mapping: BUOYFR FLASHING RED BUOY Element Type: Symbol	Survey and Mapping: BUOYLR LIGHTED RED BUOY Element Type: Symbol	Survey and Mapping: BUOYR RED BUOY Element Type: Symbol

		
Survey and Mapping: CABCNZ CABLE CROSSING ZONE Element Type: Symbol	Survey and Mapping: CATBSN CATCH BASIN Element Type: Symbol	Survey and Mapping: CDHDR CORE DRILL HOLE DRILLE Element Type: Symbol
		
Survey and Mapping: CDHUDR CORE DRILL HOLE UNDRIL Element Type: Symbol	Survey and Mapping: CMMHOL COMMUNICATION MANHOLE Element Type: Symbol	Survey and Mapping: CNR90 CORNER SOLID 90 Element Type: Symbol
		
Survey and Mapping: CNRNF CORNER NOT FOUND Element Type: Symbol	Survey and Mapping: CNRSF CORNER SOLID FLAT Element Type: Symbol	Survey and Mapping: CNTLIN CENTERLINE SYMBOL Element Type: Symbol

		
Survey and Mapping: CULVEE CULVERT END SYMBOL Element Type: Symbol	Survey and Mapping: DBLARR DOUBLE ARROW TERMINATO Element Type: Symbol	Survey and Mapping: DOLPHN DOLPHIN Element Type: Symbol
		
Survey and Mapping: DWNGUY DOWN GUY Element Type: Symbol	Survey and Mapping: ELMHOL ELECTRICAL MANHOLE Element Type: Symbol	Survey and Mapping: FLARRL FLOW ARROW LEFT IN 0 P Element Type: Symbol
		
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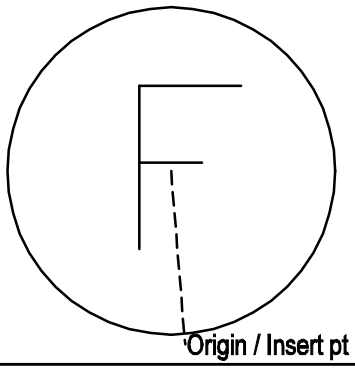	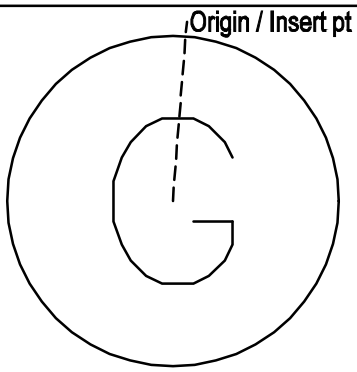	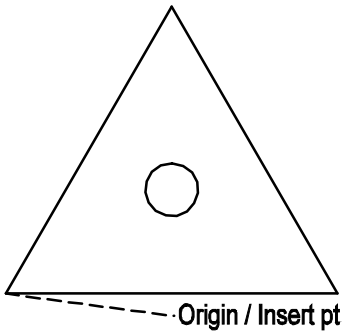
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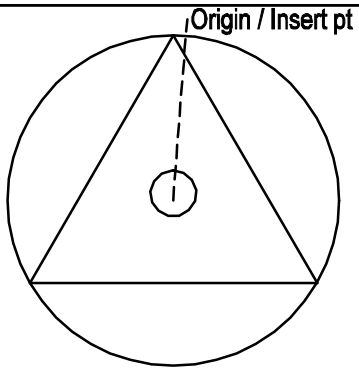	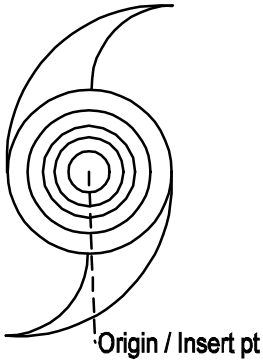	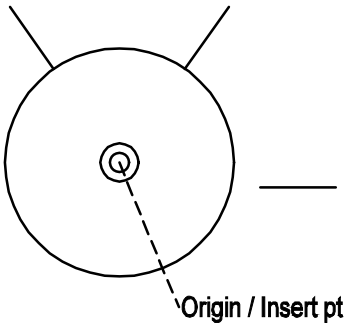
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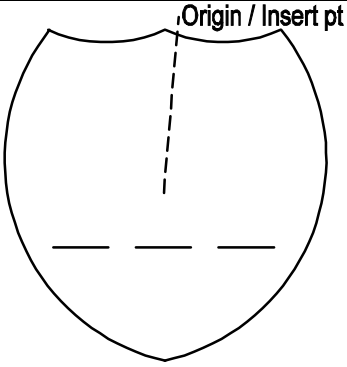	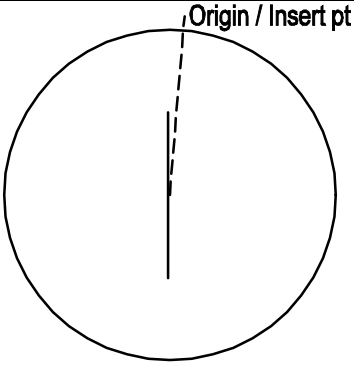	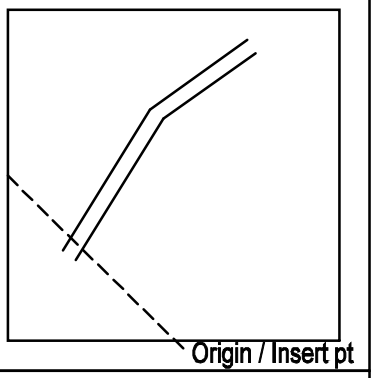
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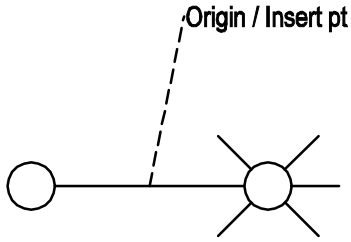	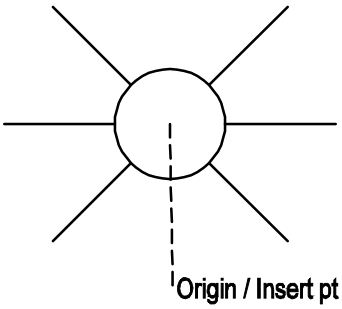	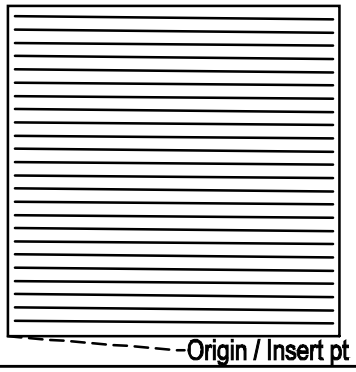
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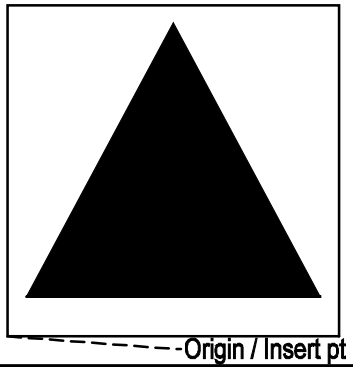	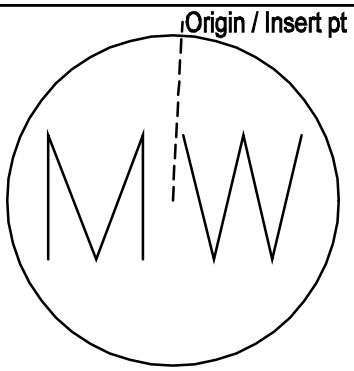	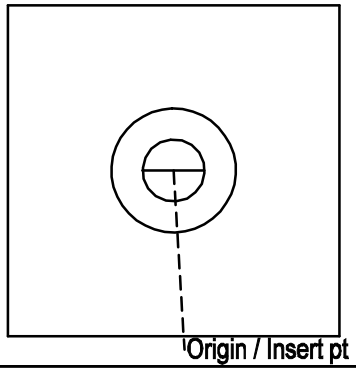
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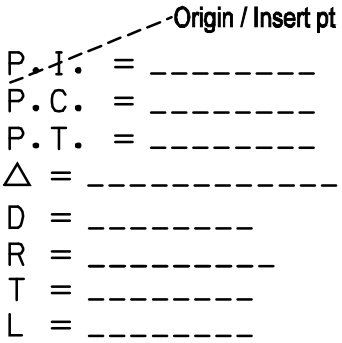	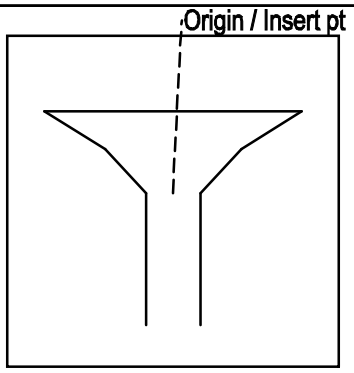	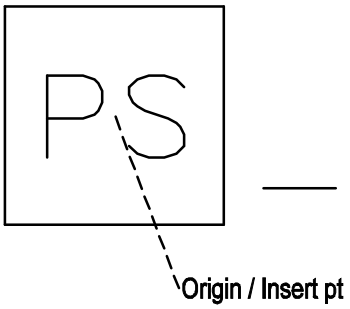
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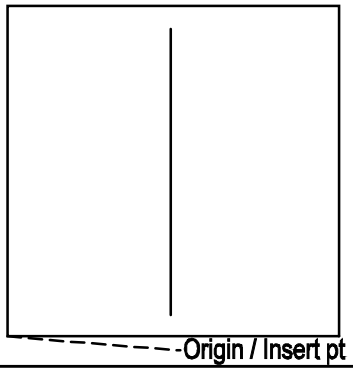	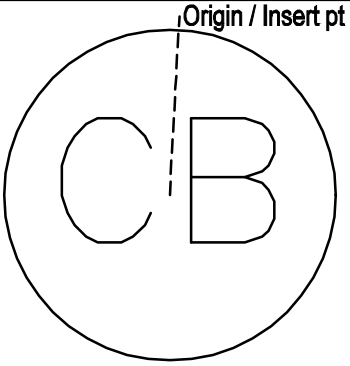	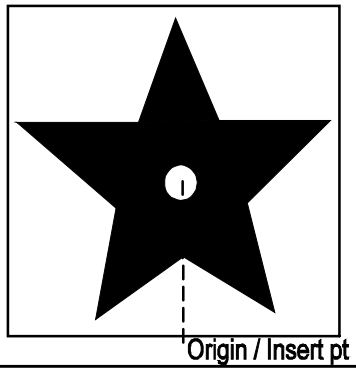
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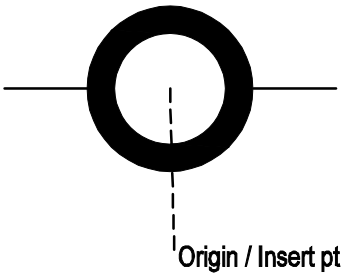	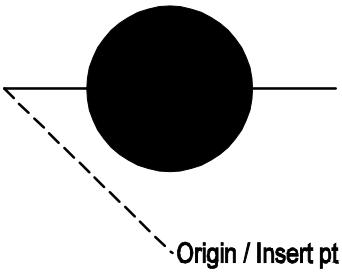	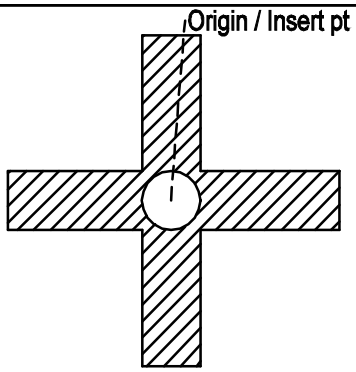
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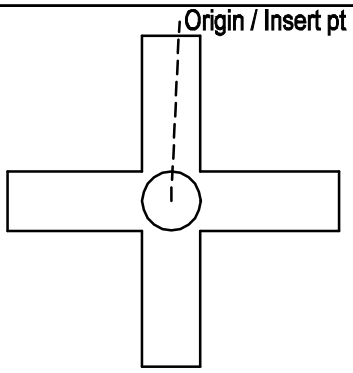	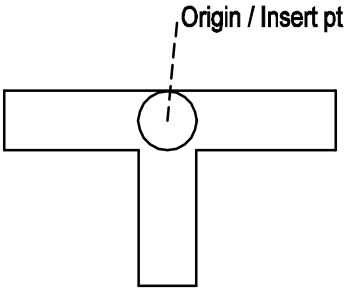	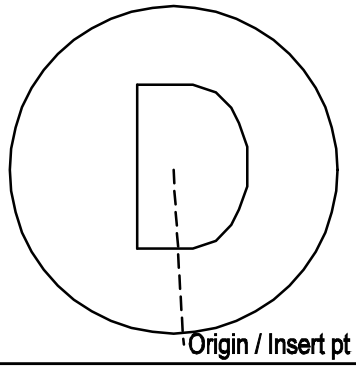
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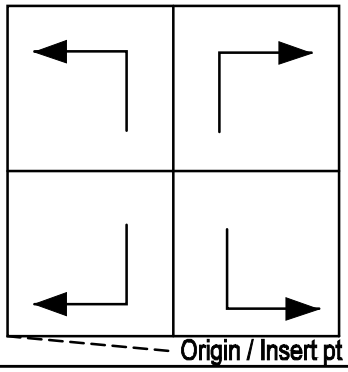	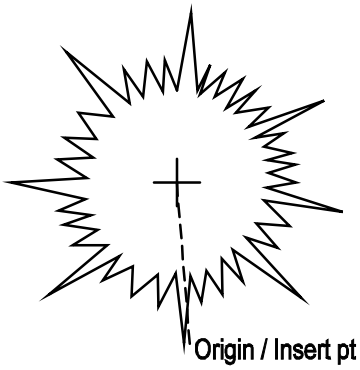	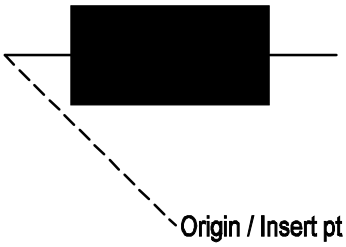
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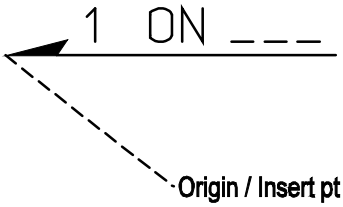	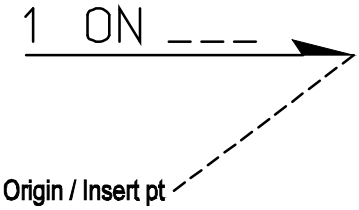	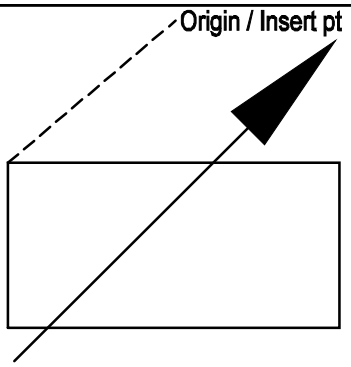
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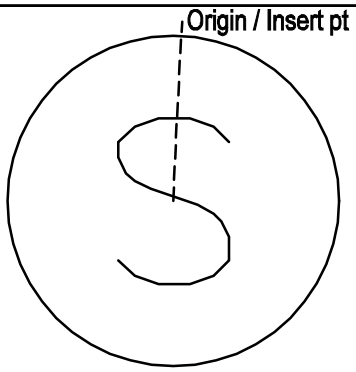	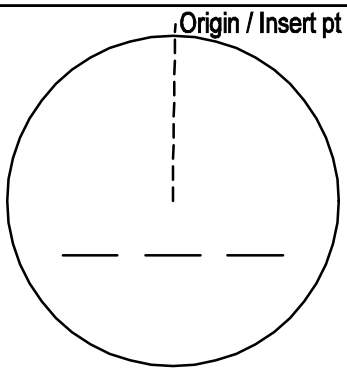	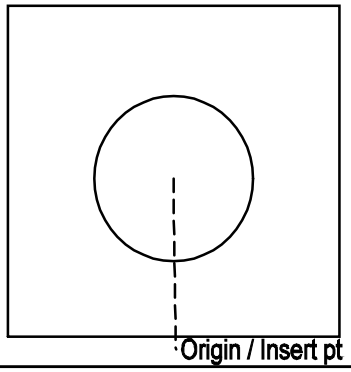
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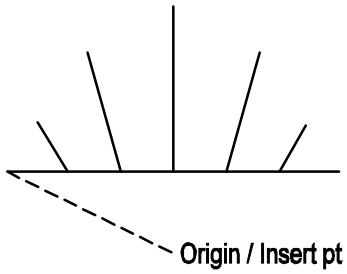	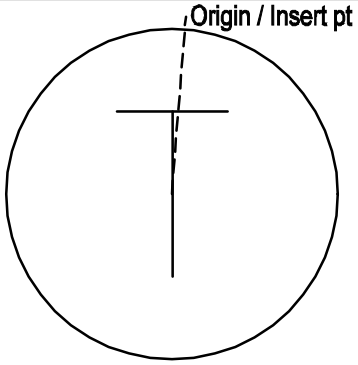	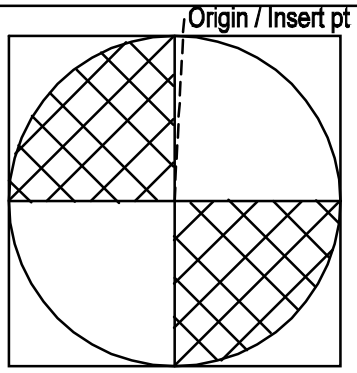
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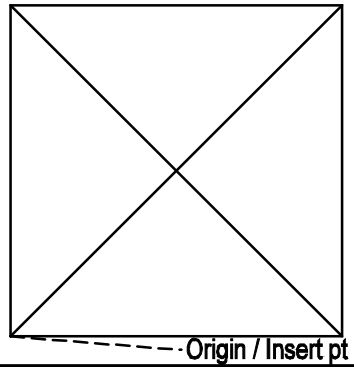	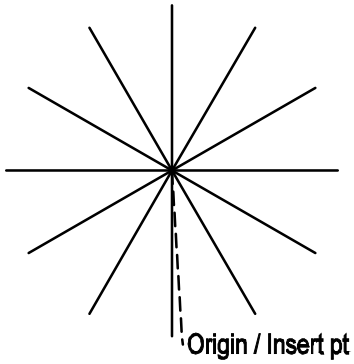	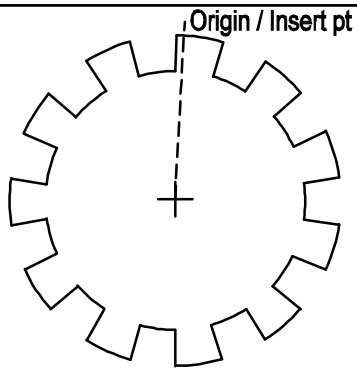
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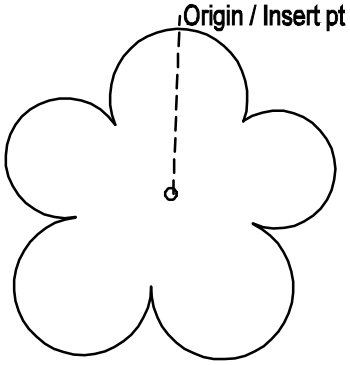	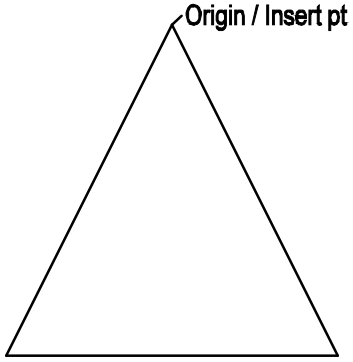	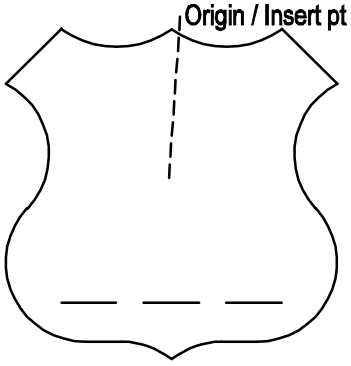
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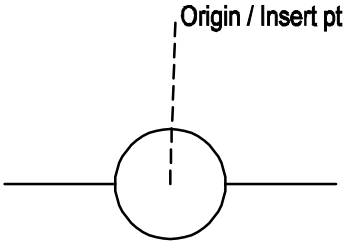	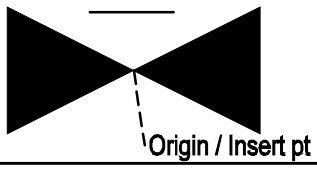	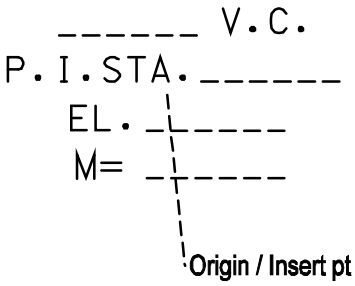
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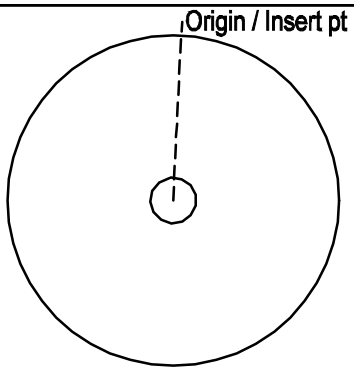
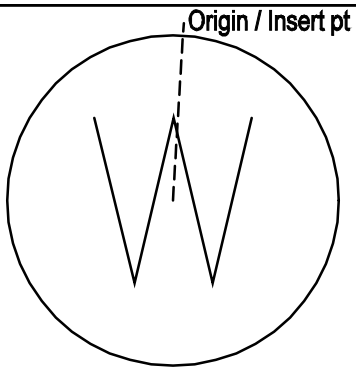
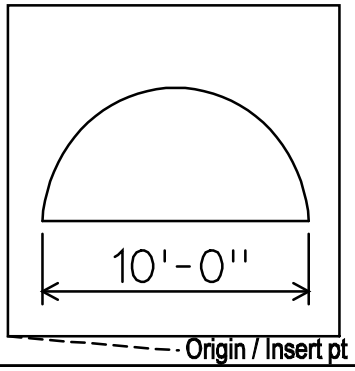
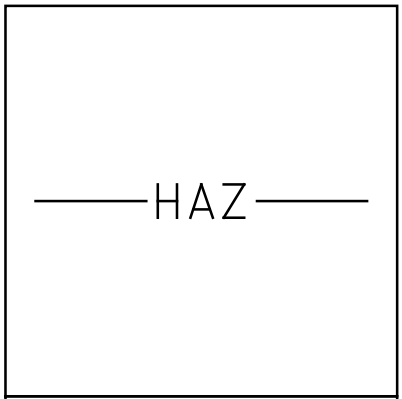
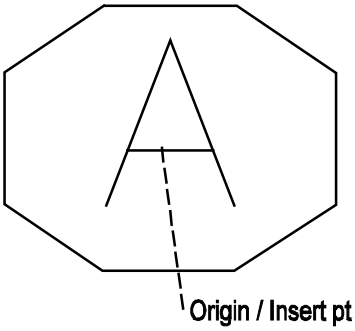
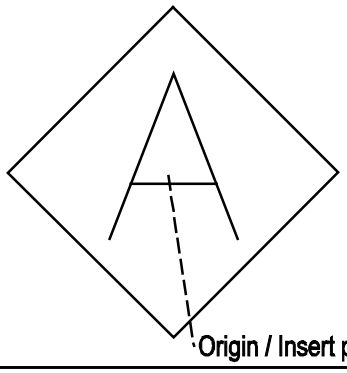
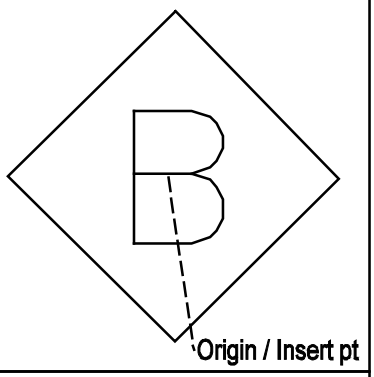
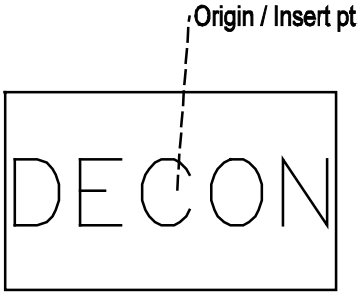
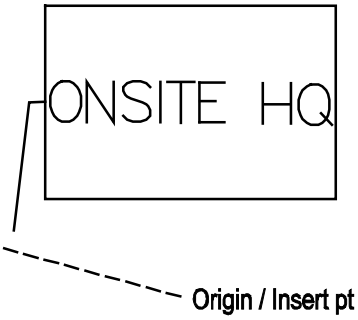
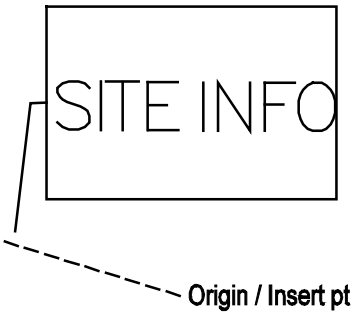
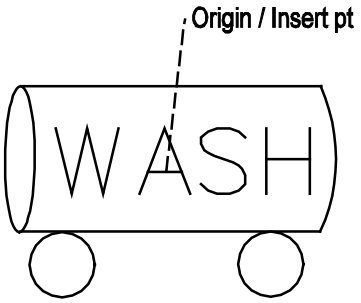
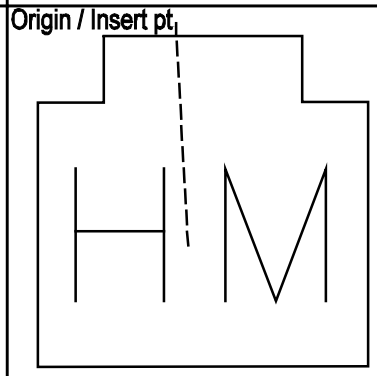
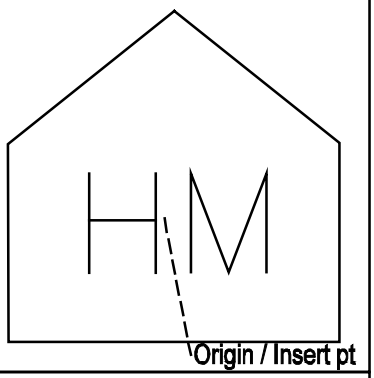
		
Survey and Mapping: VERCPT VERTICAL CONTROL POINT Element Type: Symbol	Survey and Mapping: WAMHOL WATER MANHOLE Element Type: Symbol	Survey and Mapping: WEIR WEIR Element Type: Symbol

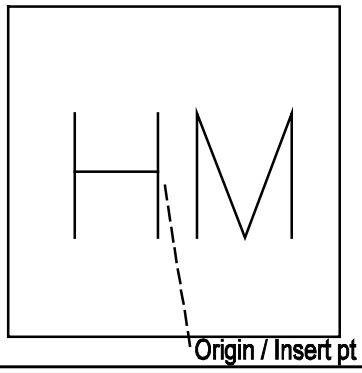
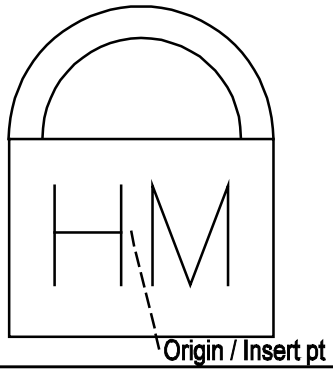
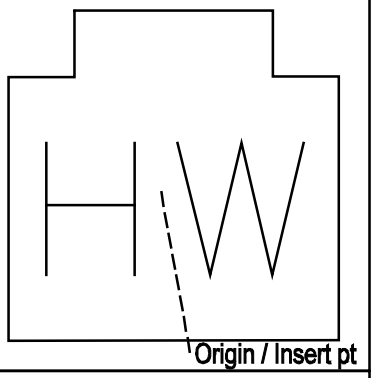
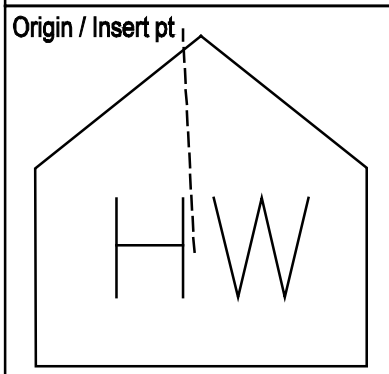
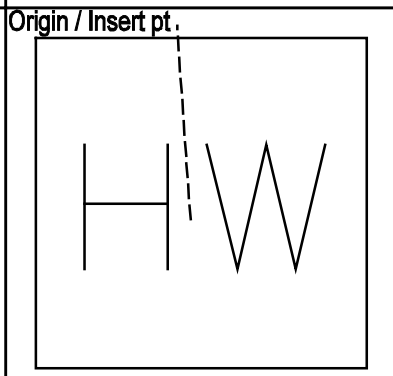
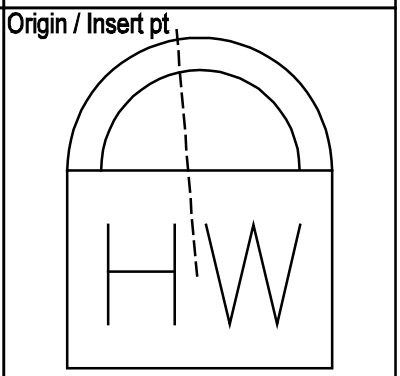
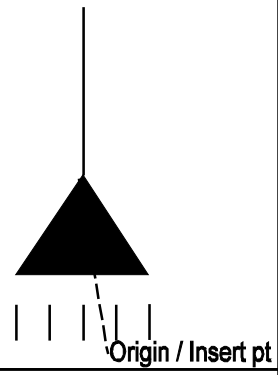
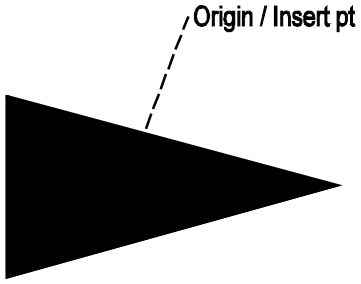
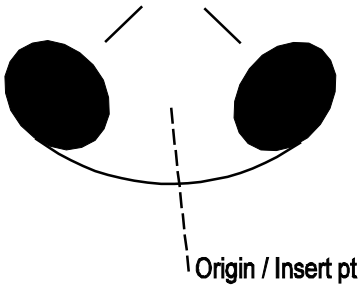
3 HTRW / Environmental Lines Library

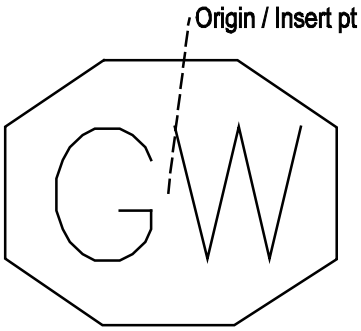
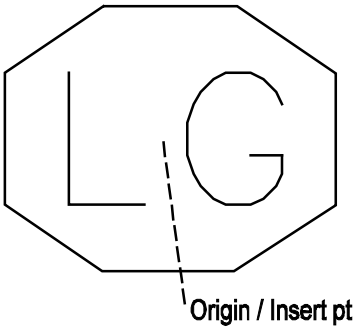
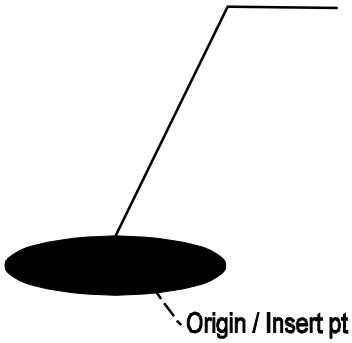
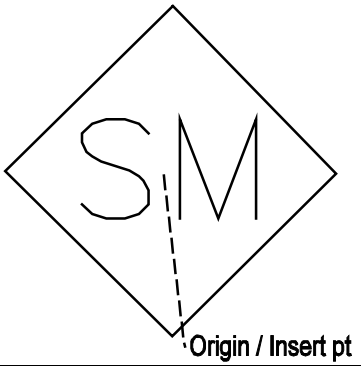
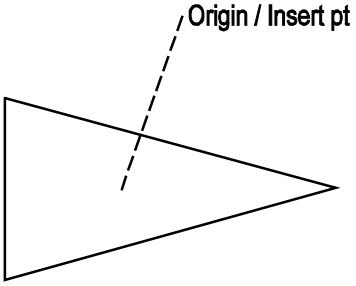
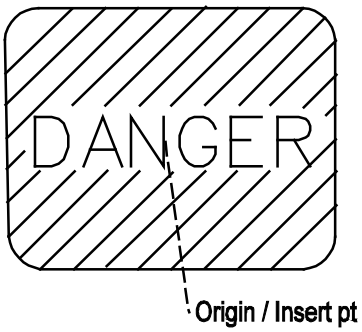
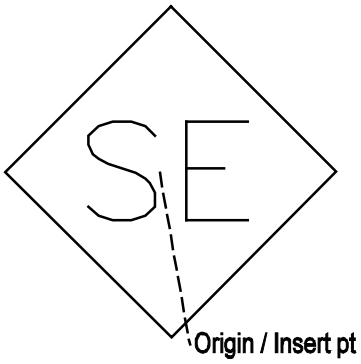
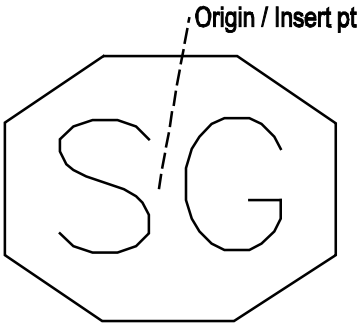
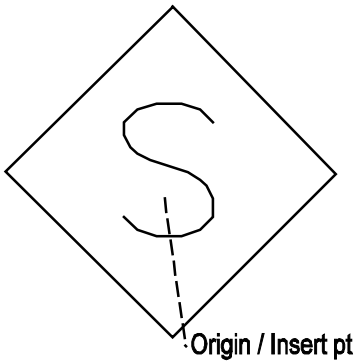


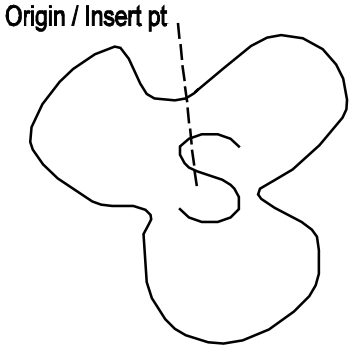
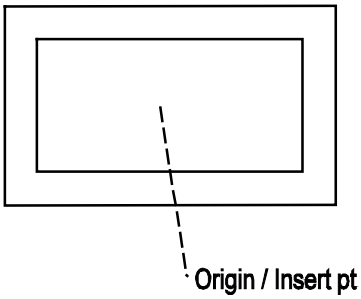
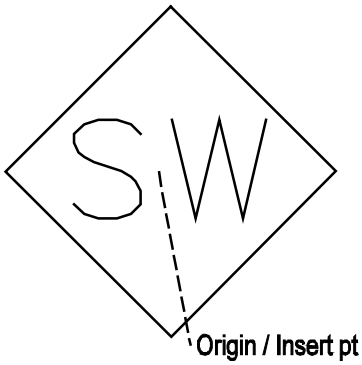
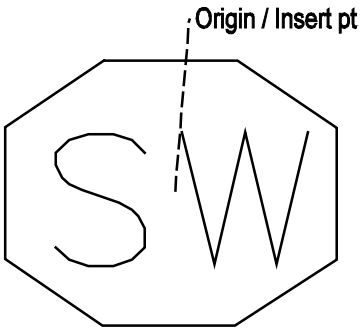
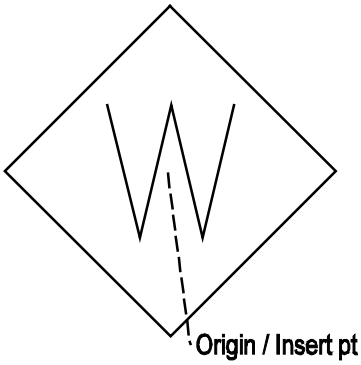
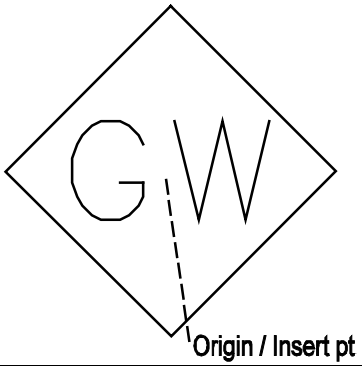
HTRW/Environmental: HAZMAT
HAZARDOUS MATERAL TRAN
Element Type: Line

3 HTRW / Environmental Symbols Library

		
HTRW / Environmental: AIRQST AIR QUALITY MON STA Element Type: Symbol	HTRW / Environmental: AIRSMP AIR SAMPLE LOCATION Element Type: Symbol	HTRW / Environmental: BIOSMP BIOLOGICAL SAMPLE LOC Element Type: Symbol
		
HTRW / Environmental: EGDECN EQUIPMENT DECON Element Type: Symbol	HTRW / Environmental: EGONST ONSITE COMMAND POST Element Type: Symbol	HTRW / Environmental: EGSITE SITE INFORMATION CENTE Element Type: Symbol
		
HTRW / Environmental: EGWASH WASHDOWN WATER TANK Element Type: Symbol	HTRW / Environmental: EHZMSA HAZMAT STOR LOCATION Element Type: Symbol	HTRW / Environmental: EHZMSB HAZMAT STOR BLDG Element Type: Symbol

		
HTRW / Environmental: EHZMSR HAZMAT STORAGE ROOM Element Type: Symbol	HTRW / Environmental: EHZMSV HAZMAT STOR VAULT Element Type: Symbol	HTRW / Environmental: EHZWSA HAZWASTE STOR LOC Element Type: Symbol
		
HTRW / Environmental: EHZWSB HAZWASTE STOR BLDG Element Type: Symbol	HTRW / Environmental: EHZWSR HAZWASTE STOR ROOM Element Type: Symbol	HTRW / Environmental: EHZWSV HAZWASTE STOR VAULT Element Type: Symbol
		
HTRW / Environmental: EMGSHW EMERGENCY SHOWER Element Type: Symbol	HTRW / Environmental: EPOLLS POLLUTION SOURCE SITE Element Type: Symbol	HTRW / Environmental: EYEWAS EMERGENCY EYEWASH Element Type: Symbol

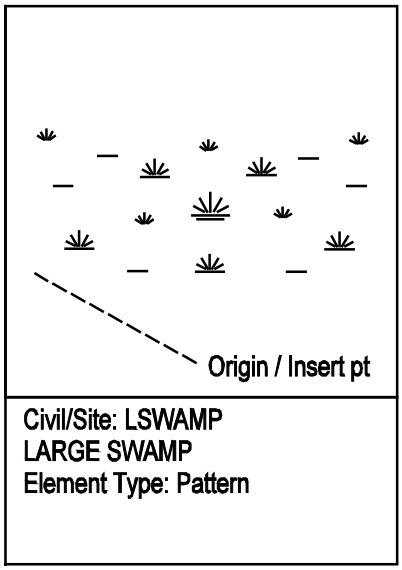
		
HTRW / Environmental: GWTQST GRDWTR QUALITY MON STA Element Type: Symbol	HTRW / Environmental: LANGAS LANDFILL GAS MON PROBE Element Type: Symbol	HTRW / Environmental: MAGLOC MAGNETOMETER DET LOC Element Type: Symbol
		
HTRW / Environmental: MATSMP SOLID MAT SAMPLE LOC Element Type: Symbol	HTRW / Environmental: PRLLOC POTENTIAL RELEASE LOC Element Type: Symbol	HTRW / Environmental: RESTR RESTRICTED ACCESS Element Type: Symbol
		
HTRW / Environmental: SEDSMP SEDIMENT SAMPLE LOC Element Type: Symbol	HTRW / Environmental: SOLGAS SOIL GAS MONIT PROBE Element Type: Symbol	HTRW / Environmental: SOLSMP SOIL SAMPLE LOCATION Element Type: Symbol

		
HTRW / Environmental: SPLRES SPILL RESPONSE Element Type: Symbol	HTRW / Environmental: SPLTNK SPILL CONTAINMENT TANK Element Type: Symbol	HTRW / Environmental: SURSMP SURFACE WTR SAMPLE LOC Element Type: Symbol
		
HTRW / Environmental: SWTQST SURF WTR QUAL MON STAT Element Type: Symbol	HTRW / Environmental: WASSMP WASTE SAMPLE LOCATION Element Type: Symbol	HTRW / Environmental: WATSMP GROUNDWATER SAMPLE LOC Element Type: Symbol

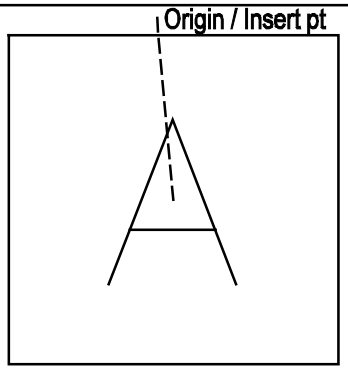
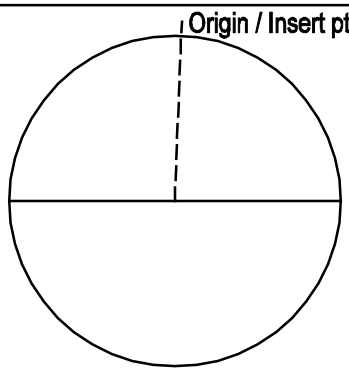
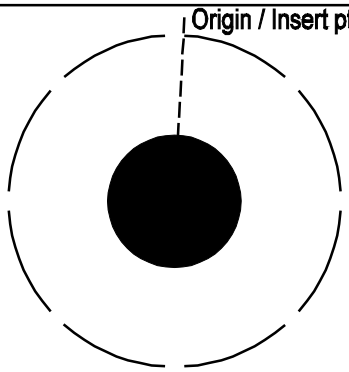
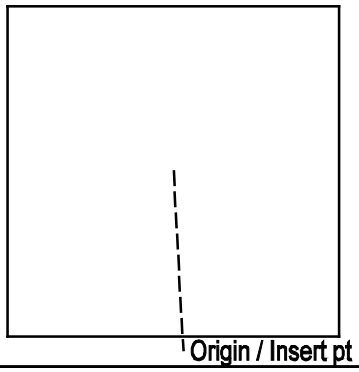
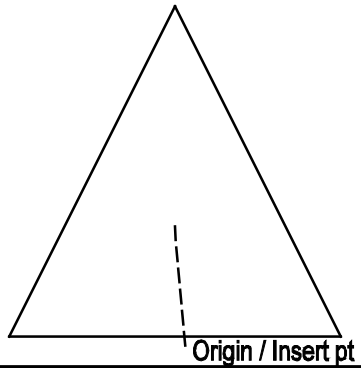
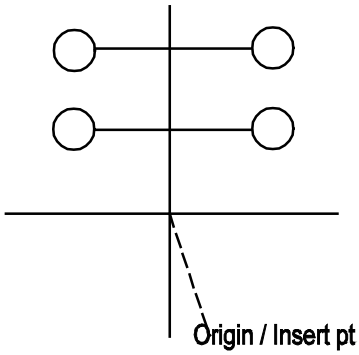
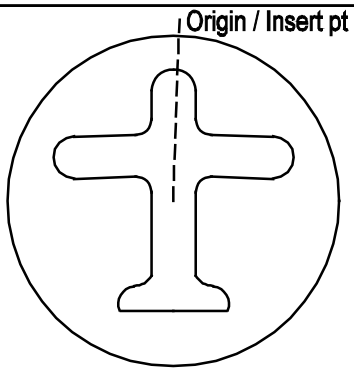
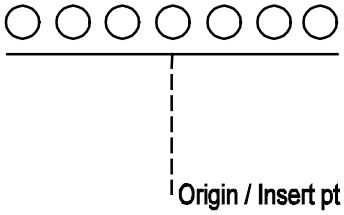
4 Civil/Site Lines Library

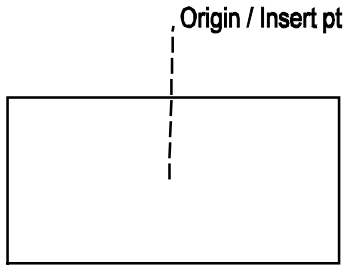
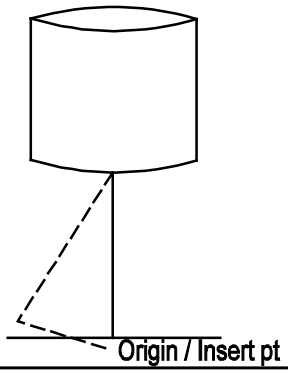
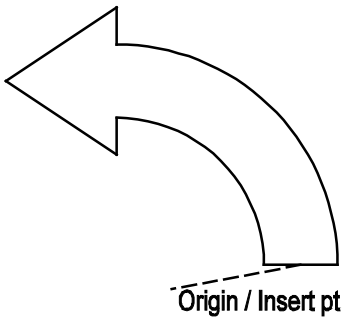
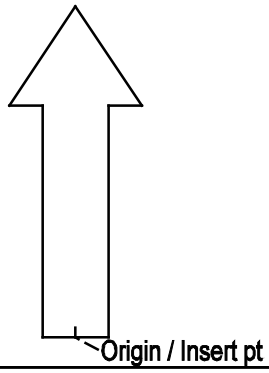
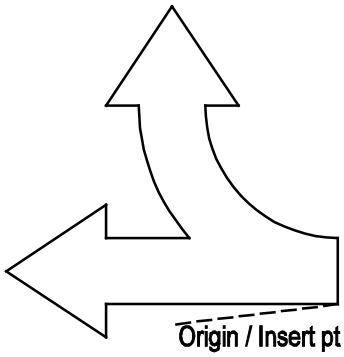
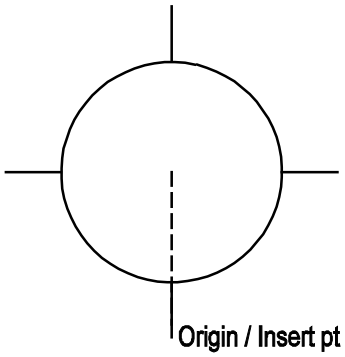
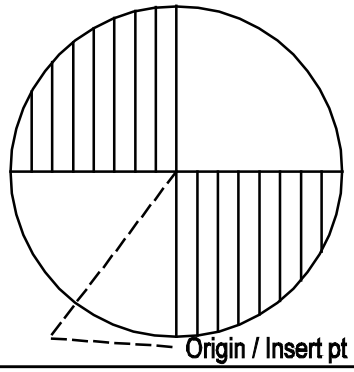
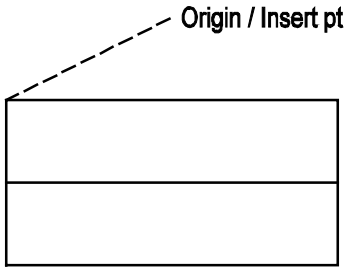
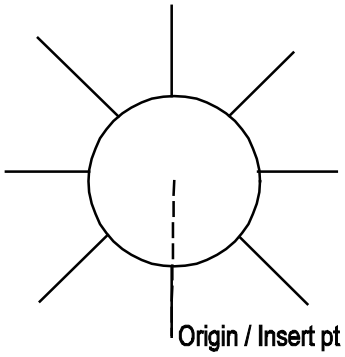
Civil/Site: GOVTKL GOVERNMENT TAKING LINE Element Type: Line	Civil/Site: GUARD GUARDRAIL Element Type: Line	Civil/Site: INDXDC INDEX DEPTH CONTOUR Element Type: Line
Civil/Site: MINRDC MINOR DEPTH CONTOUR Element Type: Line	Origin / Insert pt Civil/Site: RAILRD RAILROAD Element Type: Line	Civil/Site: TREEL TREE LINE Element Type: Line

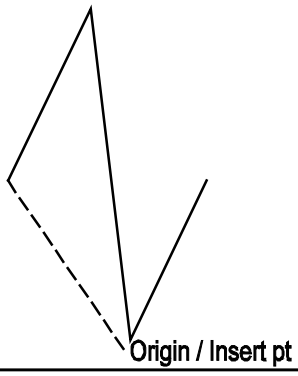
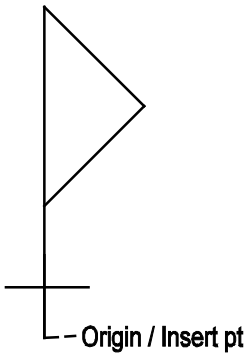
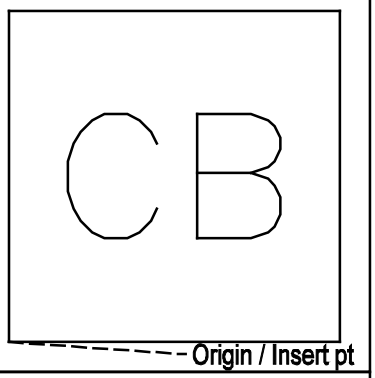
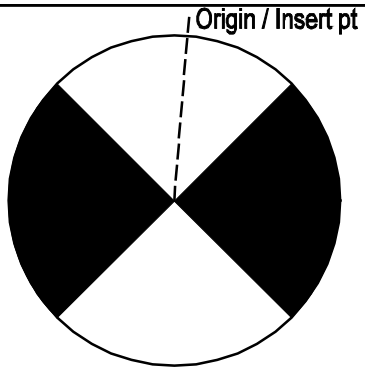
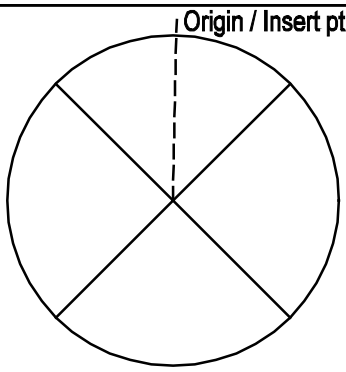
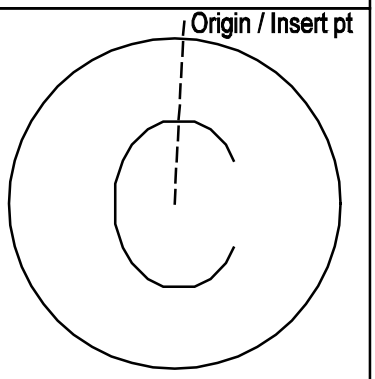
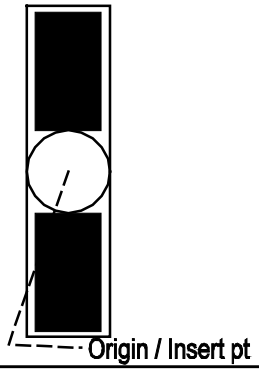
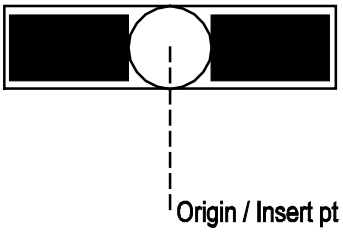
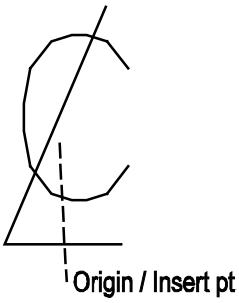
4 Civil/Site Patterns Library

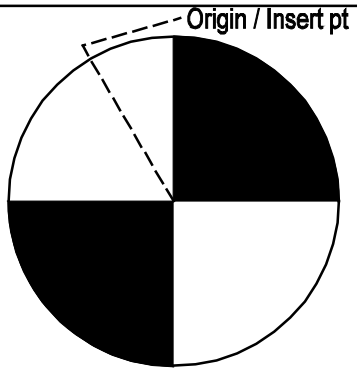
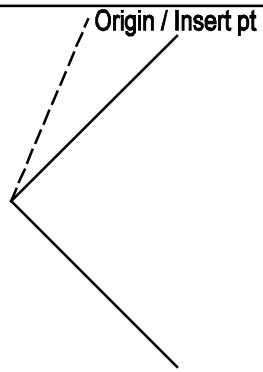
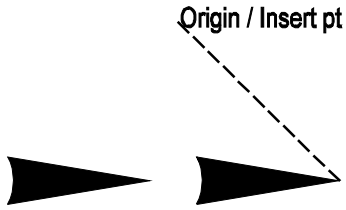
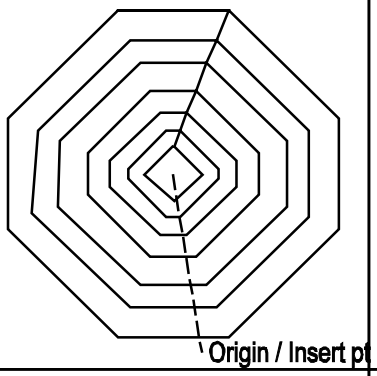
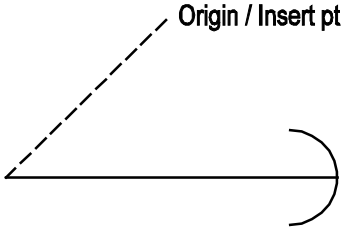
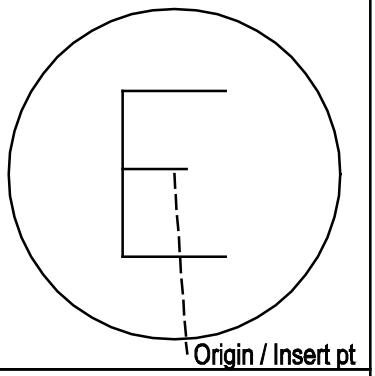
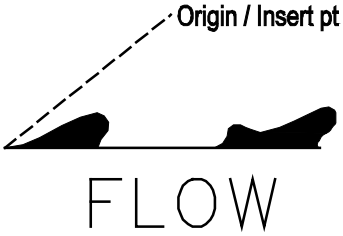
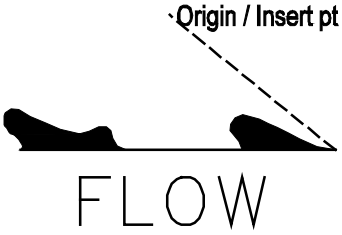
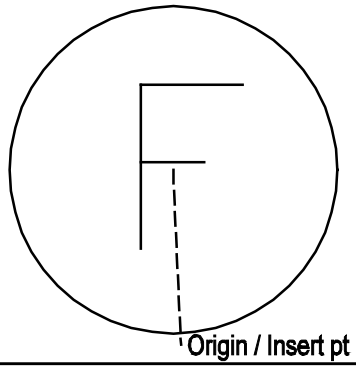

Origin / Insert pt
Civil/Site: LSWAMP
LARGE SWAMP
Element Type: Pattern

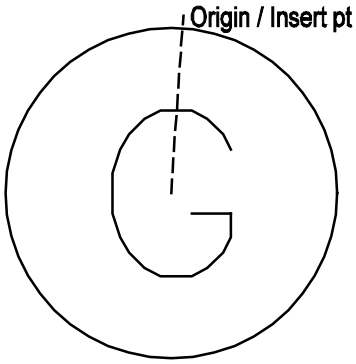
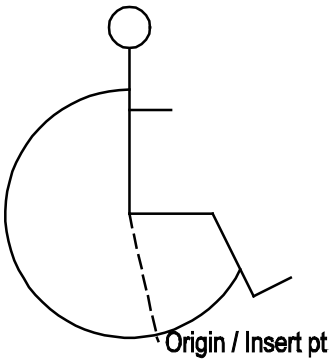
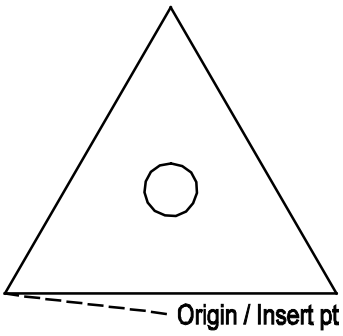
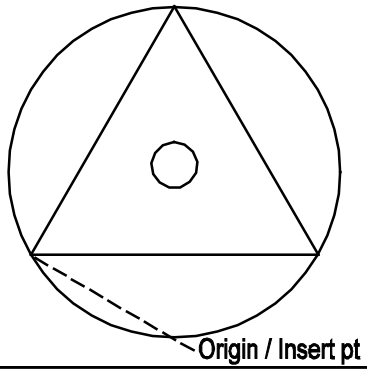
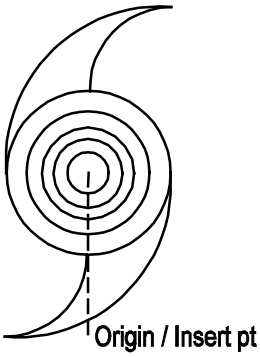
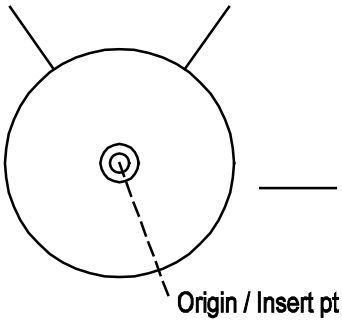
4 Civil/Site Symbols Library

		
Civil/Site: AALERT ALERT ROUTE LIGHT Element Type: Symbol	Civil/Site: AAPRON APRON LIGHT Element Type: Symbol	Civil/Site: ABROBS LIGHT BARRIER OBSTRUCT Element Type: Symbol
		
Civil/Site: ACNTR CENTERLINE LIGHT Element Type: Symbol	Civil/Site: ADIST RUNWAY DISTANCE MARKER Element Type: Symbol	Civil/Site: ADISTH LIGHT DISPLACED THRESH Element Type: Symbol
		
Civil/Site: AIRFLD AIRFIELD SYMBOL Element Type: Symbol	Civil/Site: ALARGR LIGHT ARRESTING GEAR Element Type: Symbol	Civil/Site: APAPI PAPI LIGHT Element Type: Symbol

		
Civil/Site: APTHLT PRE THRESHOLD LIGHT Element Type: Symbol	Civil/Site: AROTLT ROTATING LIGHT Element Type: Symbol	Civil/Site: ARRPT PARKING TURN ARROW Element Type: Symbol
		
Civil/Site: ARRSD STRAIGHT DIRECTION ARR Element Type: Symbol	Civil/Site: ARRST STRAIGHT AND TURN ARRO Element Type: Symbol	Civil/Site: ARWLIT RUNWAY LIGHT Element Type: Symbol
		
Civil/Site: ASTROB STROBE BEACON LIGHT Element Type: Symbol	Civil/Site: ATHLT THRESHOLD LIGHT Element Type: Symbol	Civil/Site: ATXLIT AIRFIELD TAXIWAY LIGHT Element Type: Symbol

		
Civil/Site: BREAK BREAK LINE SYMBOL Element Type: Symbol	Civil/Site: BUOY BUOY Element Type: Symbol	Civil/Site: CATBSN CATCH BASIN Element Type: Symbol
		
Civil/Site: CDHDR CORE DRILL HOLE DRILLE Element Type: Symbol	Civil/Site: CDHUDR CORE DRILL HOLE UNDRIL Element Type: Symbol	Civil/Site: CMMHOL COMMUNICATION MANHOLE Element Type: Symbol
		
Civil/Site: CNR90 CORNER SOLID 90 Element Type: Symbol	Civil/Site: CNRSF CORNER SOLID FLAT Element Type: Symbol	Civil/Site: CNTLIN CENTERLINE SYMBOL Element Type: Symbol

		
Civil/Site: COGRAV CENTER OF GRAVITY SYMB Element Type: Symbol	Civil/Site: CULVEE CULVERT END SYMBOL Element Type: Symbol	Civil/Site: DBLARR DOUBLE ARROW TERMINATO Element Type: Symbol
		
Civil/Site: DRLHOL DRILL HOLE Element Type: Symbol	Civil/Site: DWNGUY DOWN GUY Element Type: Symbol	Civil/Site: ELMHOL ELECTRICAL MANHOLE Element Type: Symbol
		
Civil/Site: FLARRL FLOW ARROW LEFT IN 0 P Element Type: Symbol	Civil/Site: FLARRR FLOW ARROW RIGHT IN 0 Element Type: Symbol	Civil/Site: FOMHOL FUEL OIL MANHOLE Element Type: Symbol

		
Civil/Site: GSMHOL GAS MANHOLE Element Type: Symbol	Civil/Site: HNDCAP HANDICAP CHAIR SYMBOL Element Type: Symbol	Civil/Site: HORCPT HORIZONTAL CONTROL PT Element Type: Symbol
		
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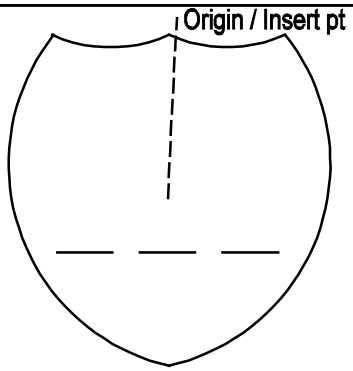
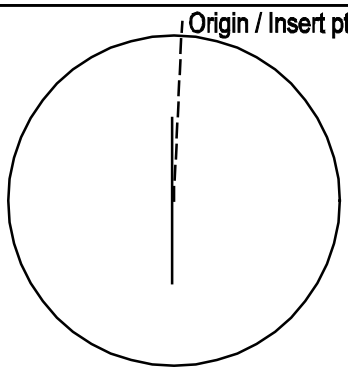
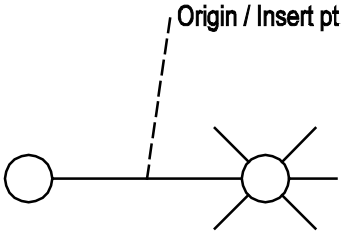
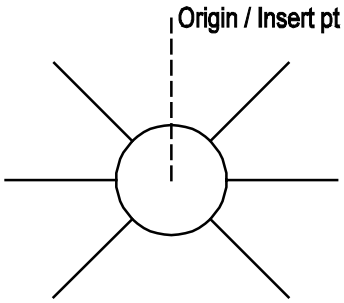
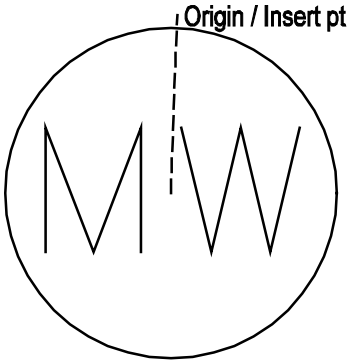
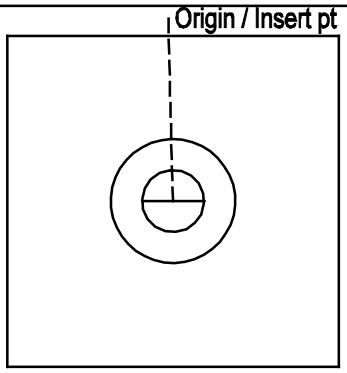
		
Civil/Site: INSHWY INTERSTATE HIGHWAY SYM Element Type: Symbol	Civil/Site: IWMHOL INDUSTRIAL WASTE MANHO Element Type: Symbol	Civil/Site: LP1A1H LIGHT POST 1 ARM 1 HEA Element Type: Symbol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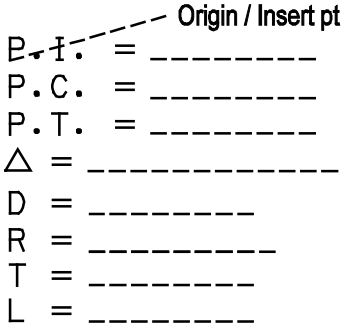
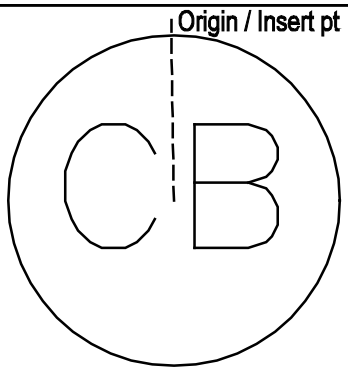
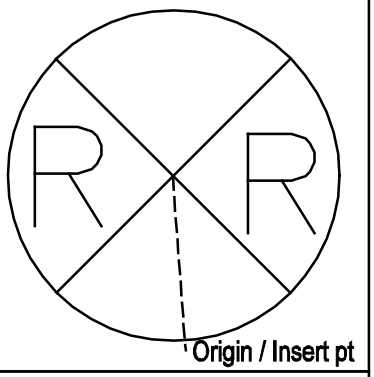
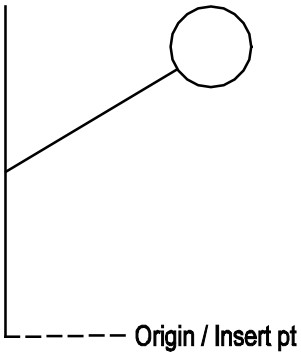
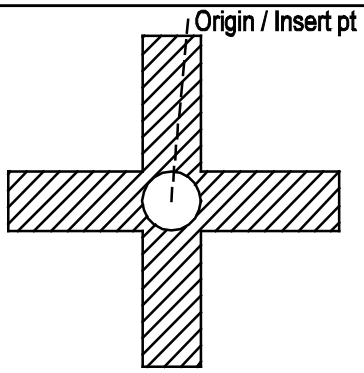
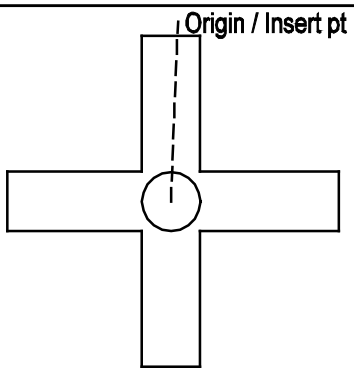
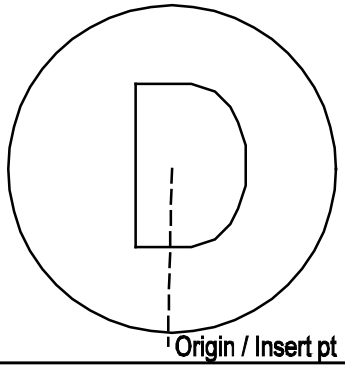
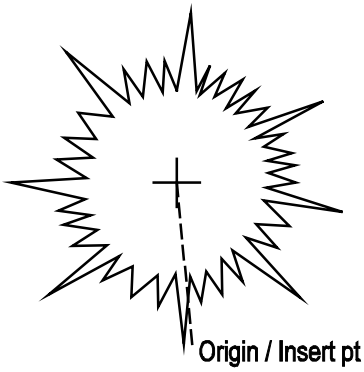
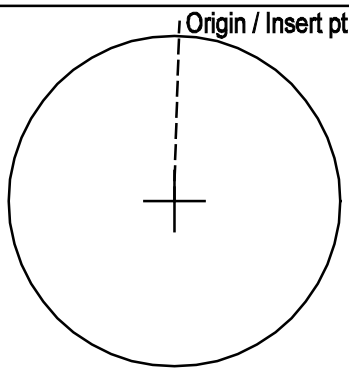
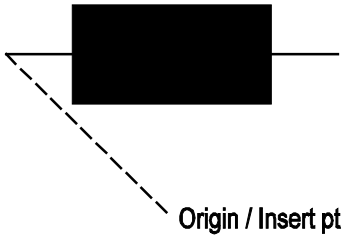
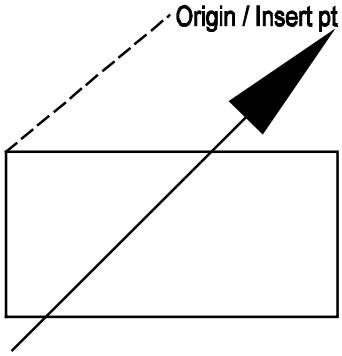
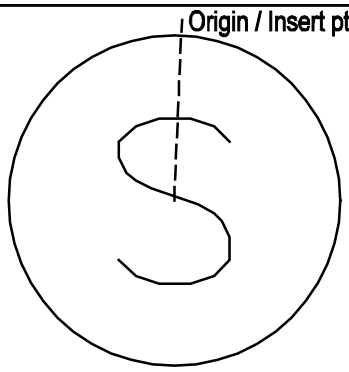
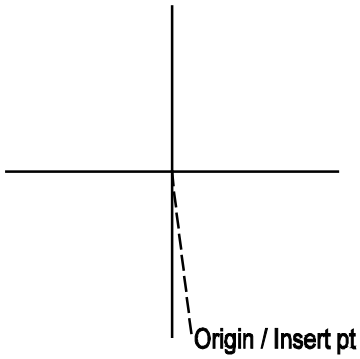
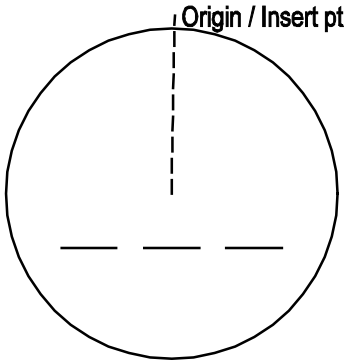
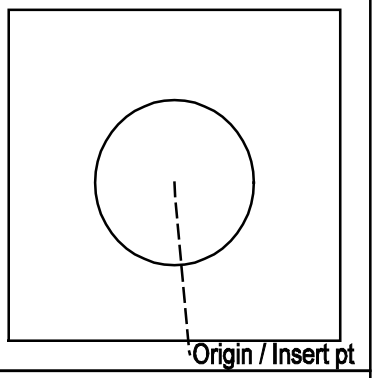
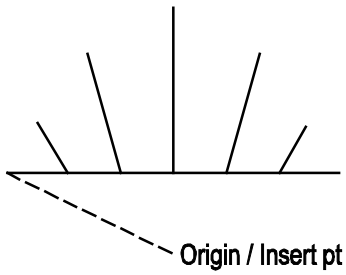
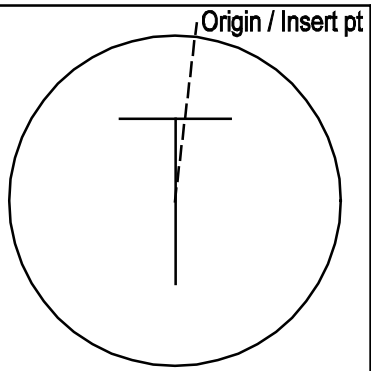
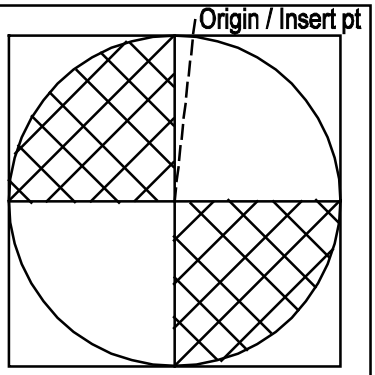
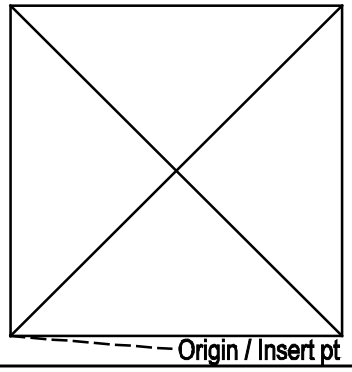
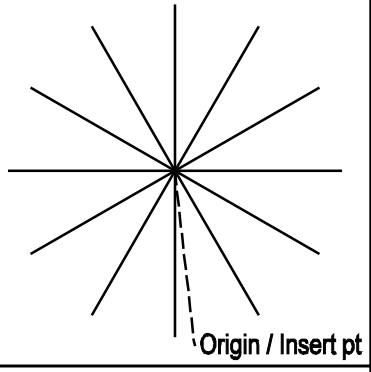
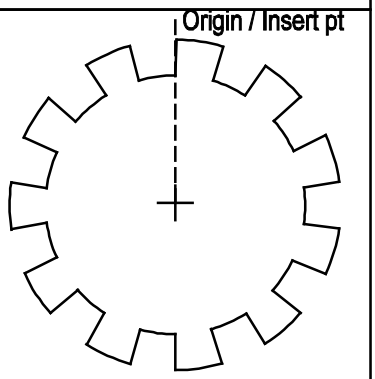
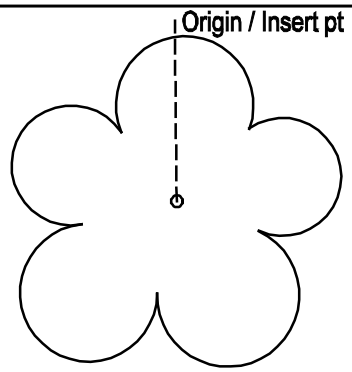
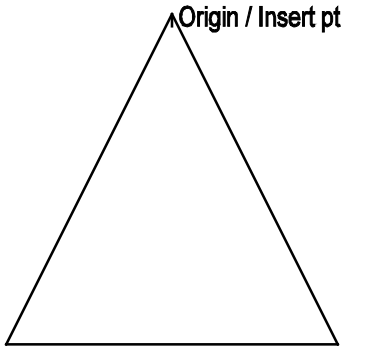
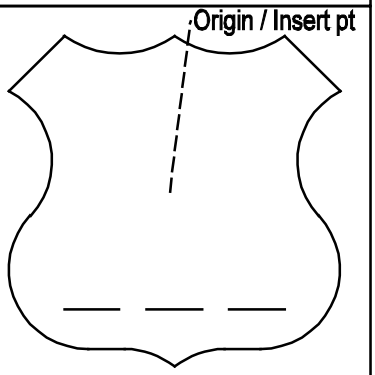
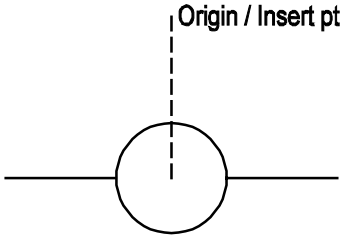
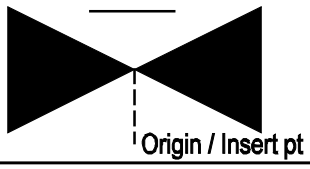
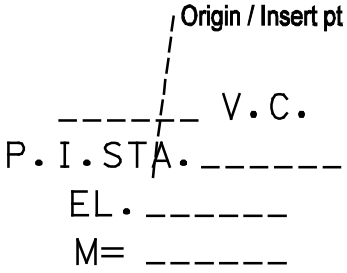
		
Civil/Site: PIINFO PI INFORMATION Element Type: Symbol	Civil/Site: RCATBS ROUND CATCH BASIN Element Type: Symbol	Civil/Site: RRSIGN RAIL SIGNAL Element Type: Symbol
		
Civil/Site: RRSWTC RAIL SWITCH Element Type: Symbol	Civil/Site: SCNRH SECTION CORNER HATCHED Element Type: Symbol	Civil/Site: SCNRO SECTION CORNER OPEN Element Type: Symbol

		
Civil/Site: SDMHOL STORM DRAINAGE MANHOLE Element Type: Symbol	Civil/Site: SHRUBC CONIFEROUS SHRUB Element Type: Symbol	Civil/Site: SHRUBD DECIDUOUS SHRUB Element Type: Symbol
		
Civil/Site: SIGN SIGN Element Type: Symbol	Civil/Site: SLREG STREET LIGHT REGULATOR Element Type: Symbol	Civil/Site: SNMHOL SANITARY MANHOLE Element Type: Symbol
		
Civil/Site: SPOTEL GROUND SPOT ELEVATION Element Type: Symbol	Civil/Site: STHWY STATE HIGHWAY SYMBOL Element Type: Symbol	Civil/Site: STMPIT STEAM PIT Element Type: Symbol

		
Civil/Site: SWAMP SWAMP Element Type: Symbol	Civil/Site: TEMHOL TELEPHONE MANHOLE Element Type: Symbol	Civil/Site: TIDEG TIDE GAGE Element Type: Symbol
		
Civil/Site: TOWER TRANSMISSION TOWER Element Type: Symbol	Civil/Site: TREEC CONIFEROUS TREE Element Type: Symbol	Civil/Site: TREED DECIDUOUS TREE Element Type: Symbol
		
Civil/Site: TREEG GENERIC TREE Element Type: Symbol	Civil/Site: TRNPOL TRANSFORMER POLE MOUNT Element Type: Symbol	Civil/Site: USHWY US HIGHWAY SYMBOL Element Type: Symbol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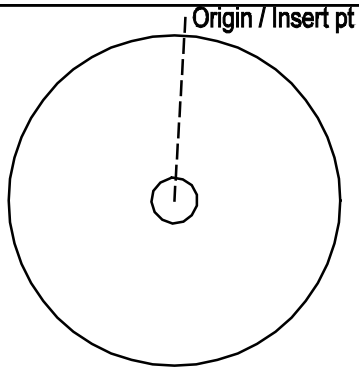
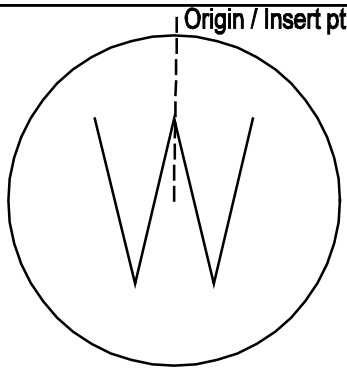
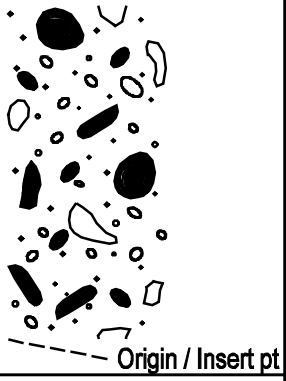
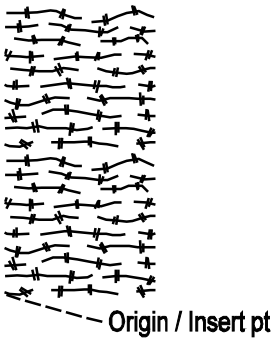
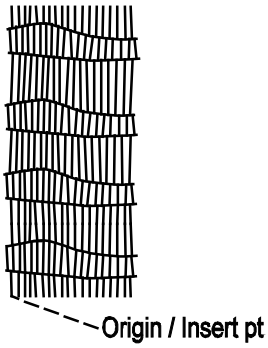
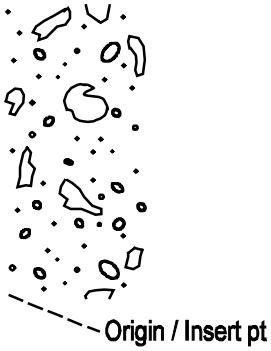
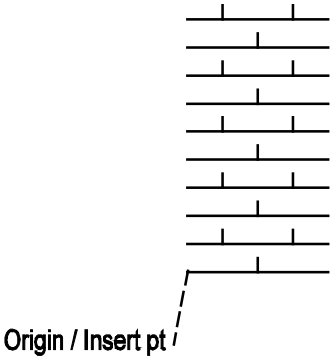
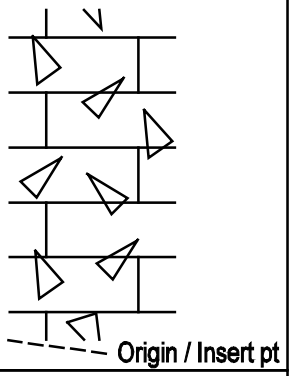
		
Civil/Site: VERCPT VERTICAL CONTROL POINT Element Type: Symbol	Civil/Site: WAMHOL WATER MANHOLE Element Type: Symbol	

5 Geotechnical Pattern Library

		
Geotechnical: AGGLOM AGGLOMERATE FLOW BRECC Element Type: Pattern	Geotechnical: ANDES ANDESITE Element Type: Pattern	Geotechnical: BASALT BASALT Element Type: Pattern
		
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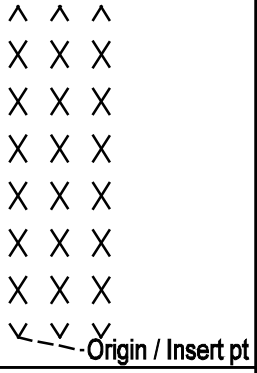
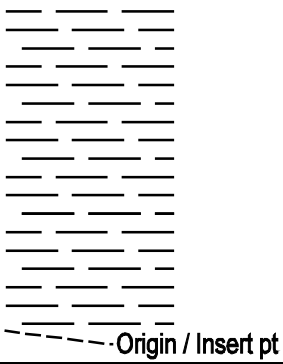
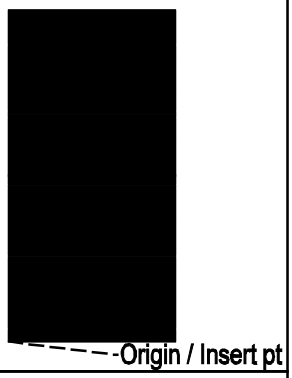
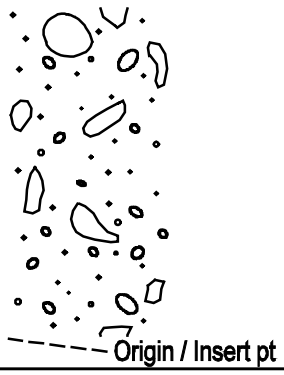
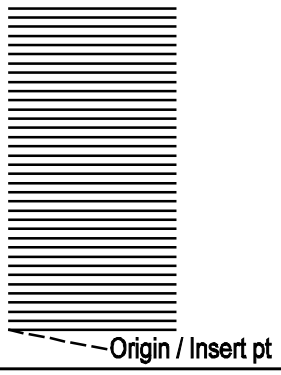
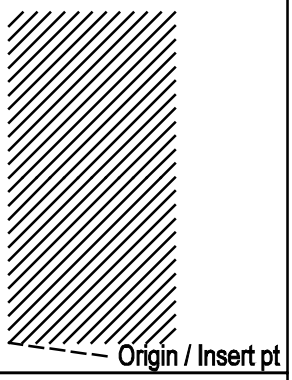
		
Geotechnical: CLAYST CLAYSTONE OR SILTSTONE Element Type: Pattern	Geotechnical: CMPSHL COMPACTION SHALE Element Type: Pattern	Geotechnical: COAL COAL Element Type: Pattern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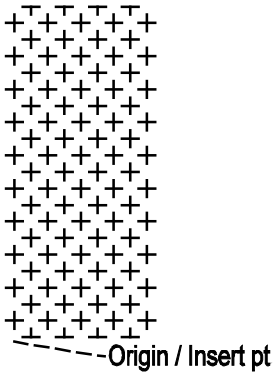	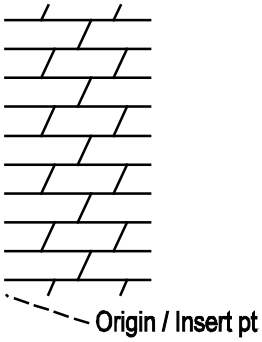	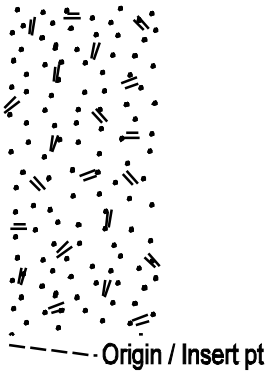
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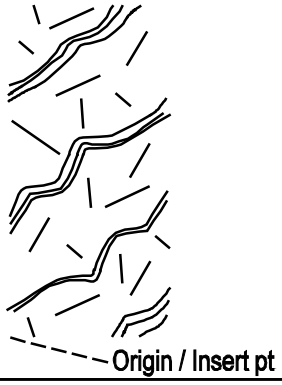	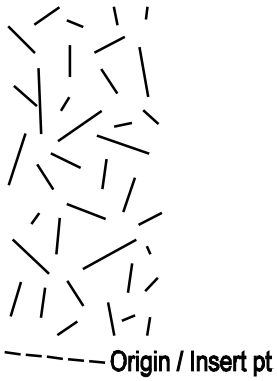	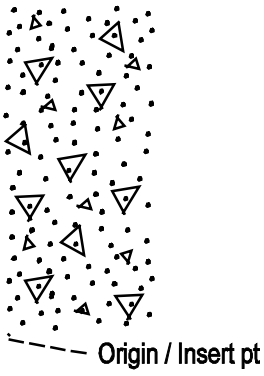
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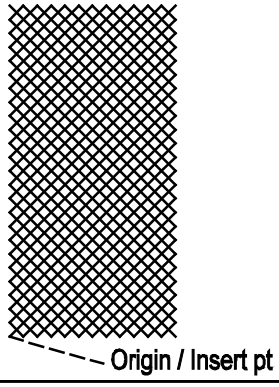	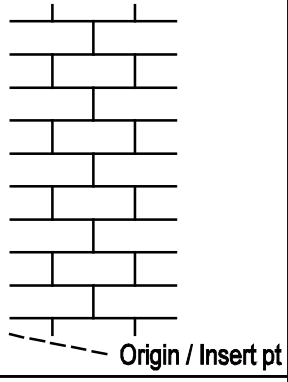	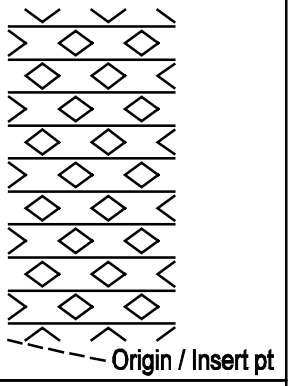
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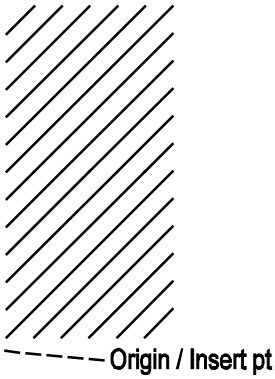	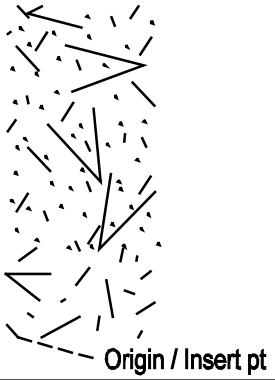	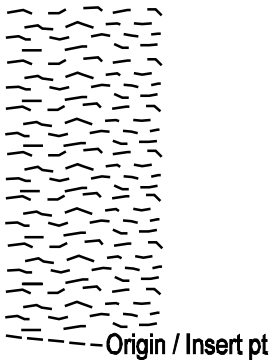
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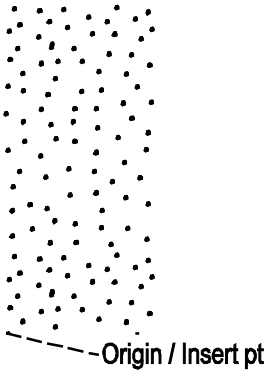	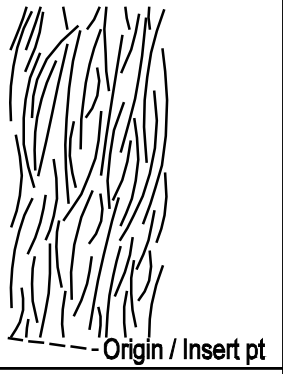	
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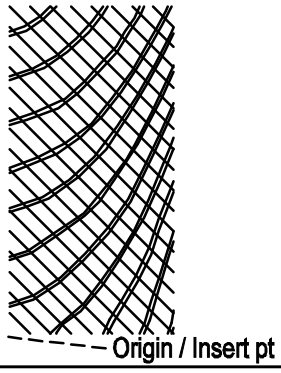
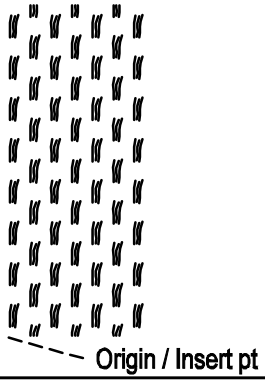
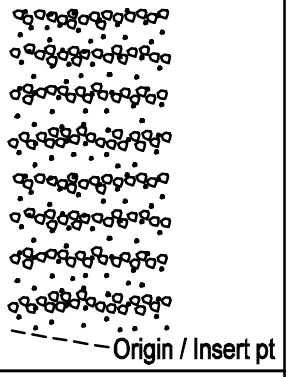
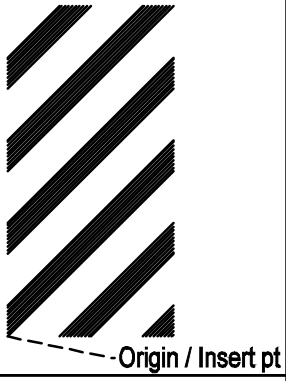
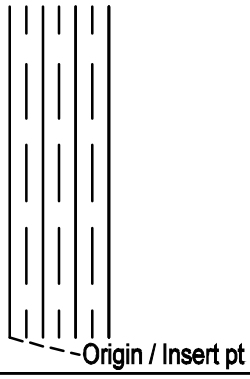
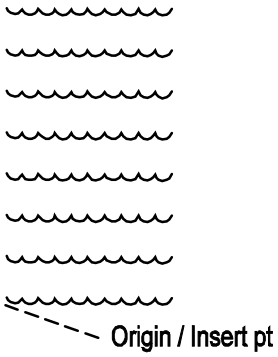
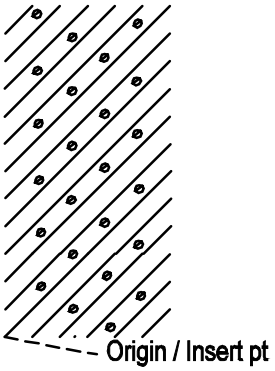
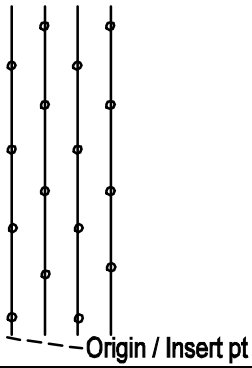
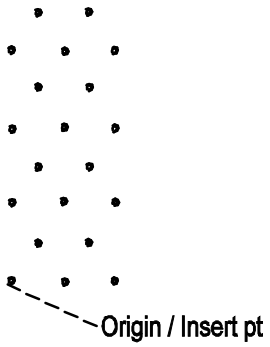
		
Geotechnical: SLATE SLATE Element Type: Pattern	Geotechnical: SOAPST SOAPSTONE OR SERPENTIN Element Type: Pattern	Geotechnical: TUFF TUFF OR TUFF BRECCIA Element Type: Pattern
		
Geotechnical: USCS1 USCS SOIL SYMBOL Element Type: Pattern	Geotechnical: USCS10 OL ORGANIC CLAY OR SIL Element Type: Pattern	Geotechnical: USCS11 PT PEAT Element Type: Pattern
		
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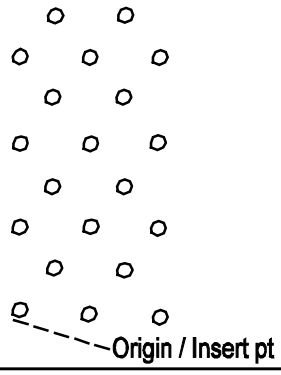
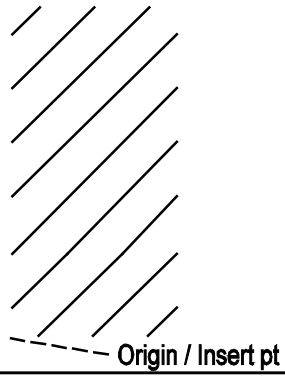
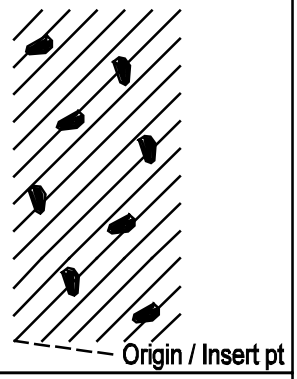
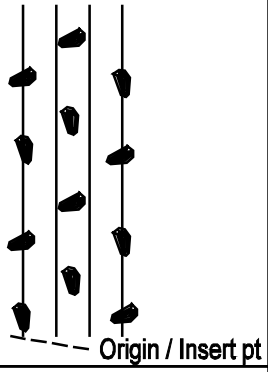
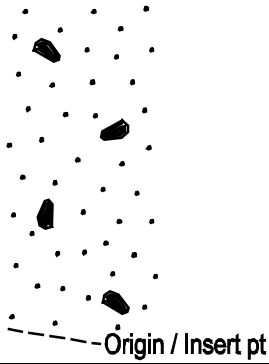
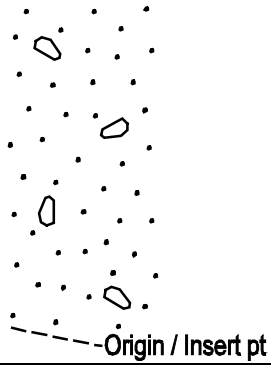
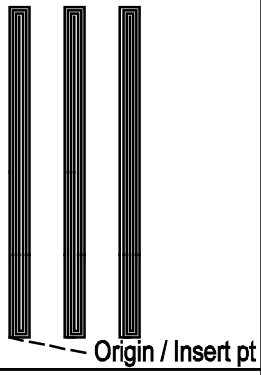
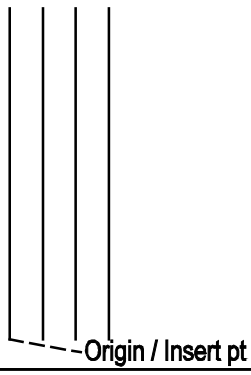
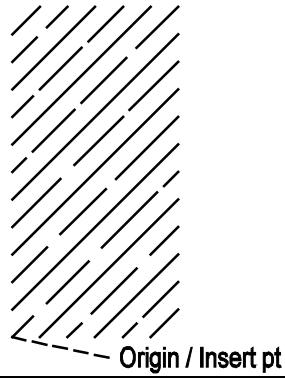
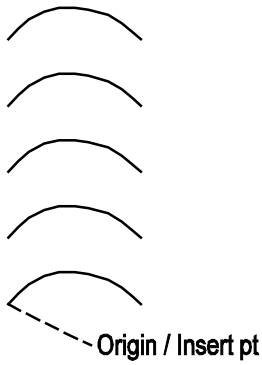
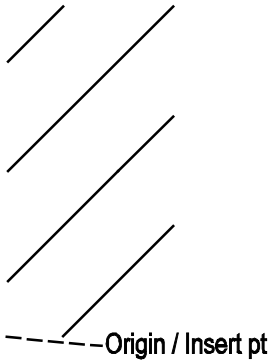
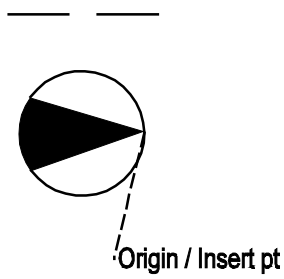
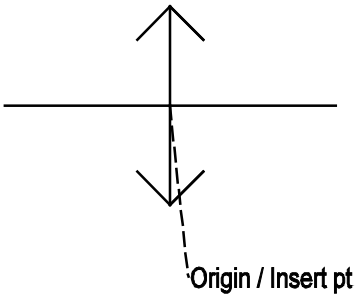
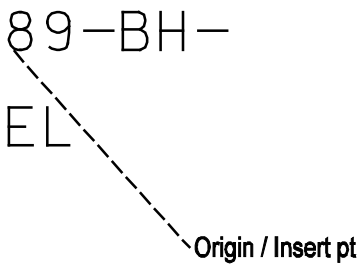
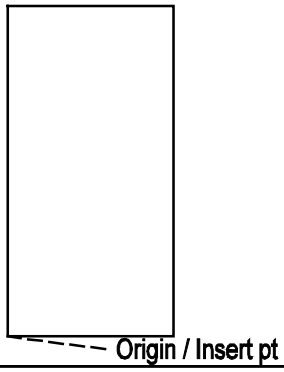
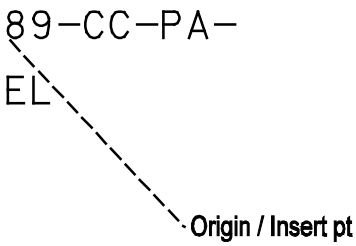
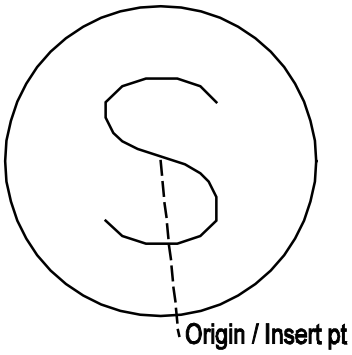
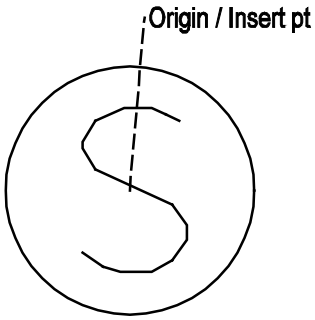
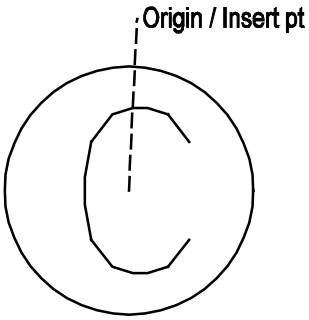
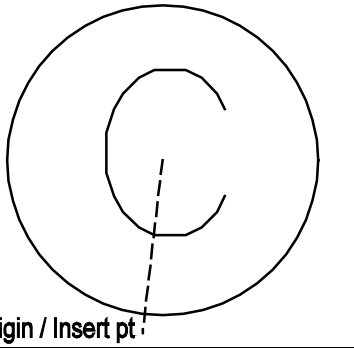
		
Geotechnical: USCS15 SW WELL GRADED SAND Element Type: Pattern	Geotechnical: USCS2 CL LEAN CLAY Element Type: Pattern	Geotechnical: USCS3 GC CLAYEY GRAVEL Element Type: Pattern
		
Geotechnical: USCS4 GM SILTY GRAVEL Element Type: Pattern	Geotechnical: USCS5 GP POORLY GRADED GRAVE Element Type: Pattern	Geotechnical: USCS6 GW WELL GRADED GRAVEL Element Type: Pattern
		
Geotechnical: USCS7 MH INORGANIC SILT HIGH Element Type: Pattern	Geotechnical: USCS8 ML INORGANIC SILT LOW Element Type: Pattern	Geotechnical: USCS9 OH ORGANIC CLAY OR SIL Element Type: Pattern

		
Geotechnical: WOOD WOOD SYMBOL Element Type: Pattern	Geotechnical: WSJNT WIDELY SPACED JOINTS Element Type: Pattern	Geotechnical: ZONECL ZONE OF CORE LOSS Element Type: Pattern

5 Geotechnical Symbols Library

		
Geotechnical: ANCHOL ANG CORED HOLE AR EQ D Element Type: Symbol	Geotechnical: ANTICL ANTICLINE Element Type: Symbol	Geotechnical: BHHNUM BACKHOE HOLE NUMBER Element Type: Symbol
		
Geotechnical: BOLOGR BORING LOG REFUSAL Element Type: Symbol	Geotechnical: CCHNUM CONCRETE CORE HOLE NO. Element Type: Symbol	Geotechnical: CDRDSH CONSOL DRAINED DIR SHE Element Type: Symbol
		
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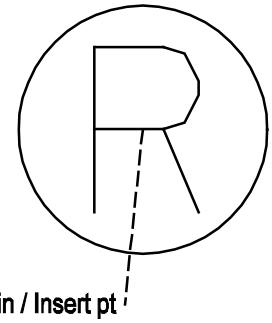
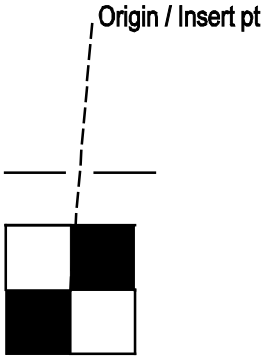
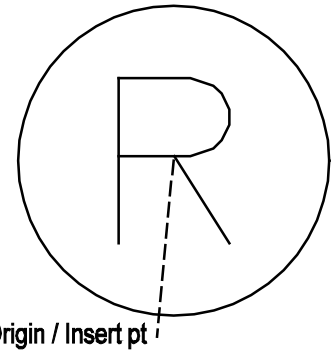
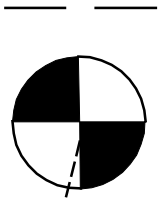
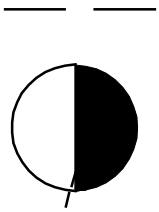
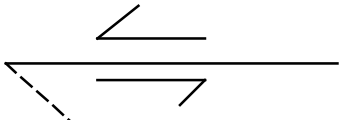
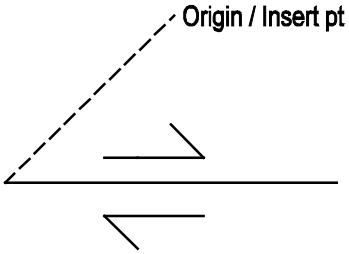
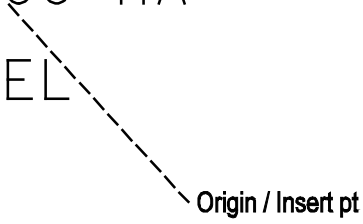
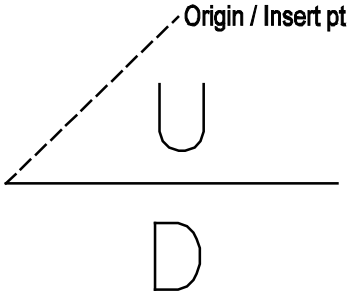
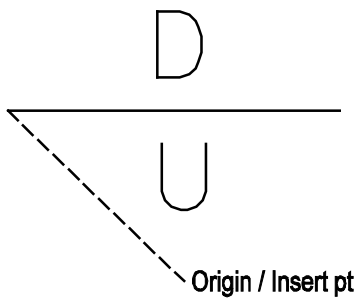
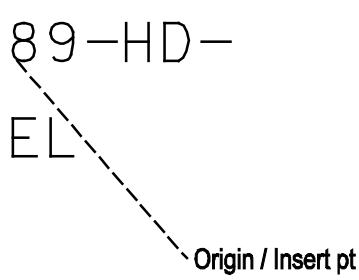
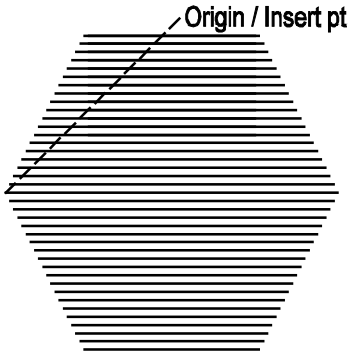
		
Geotechnical: CONUDR CONSOLIDATED UNDRAINED Element Type: Symbol	Geotechnical: CPNHOL CONE PENETROMETER HOLE Element Type: Symbol	Geotechnical: CUDRTT CONSOL UNDRND TRIAXIAL Element Type: Symbol
		
Geotechnical: DSCHOL DRIVE SAMPLED SPT AN Element Type: Symbol	Geotechnical: DSHOL DRIVE SAMPLE SPT HOL Element Type: Symbol	Geotechnical: FBLCK1 FAULT BLOCK MOVEMENT 1 Element Type: Symbol
		
Geotechnical: FBLCK2 FAULT BLOCK MOVEMENT 2 Element Type: Symbol	Geotechnical: HAHNUM HAND AUGER HOLE NUMBE Element Type: Symbol	Geotechnical: HANGF1 HIGH ANGLE FAULT 1 Element Type: Symbol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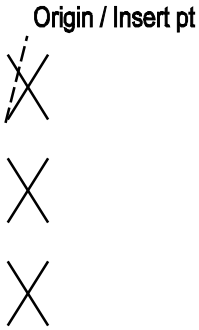
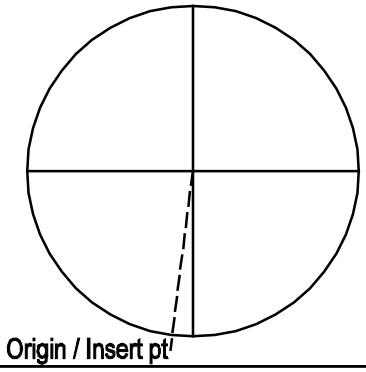
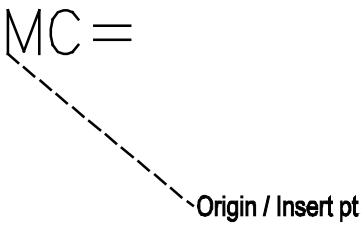
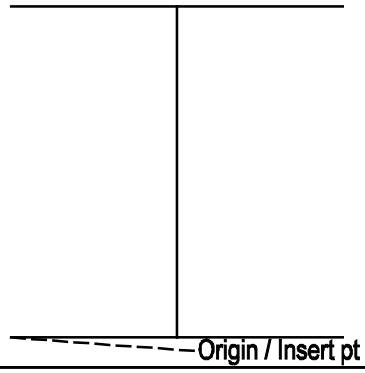
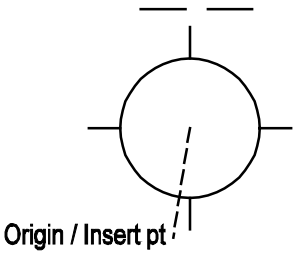
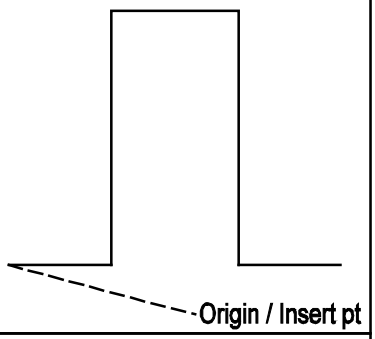
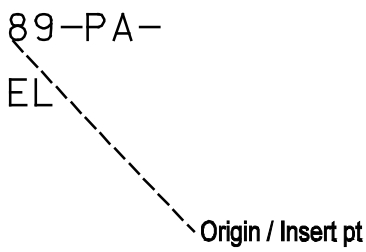
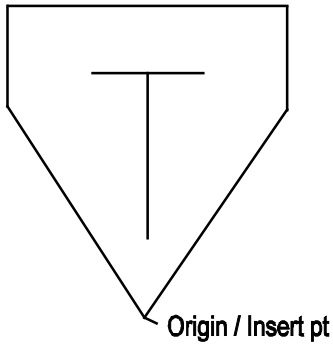
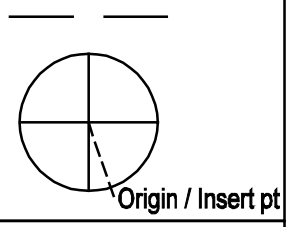
		
Geotechnical: HOLNUM HOLE NUMBER ELEVATION Element Type: Symbol	Geotechnical: HRZBED HORIZONTAL BEDS Element Type: Symbol	Geotechnical: MOISTC MOISTURE CONTENT Element Type: Symbol
		
Geotechnical: NSAHOL NONSAMPLED AREA OF HOL Element Type: Symbol	Geotechnical: OBSHOL PIEZOMETER OR OBSERVAT Element Type: Symbol	Geotechnical: OPBLOG OPEN BORING LOG Element Type: Symbol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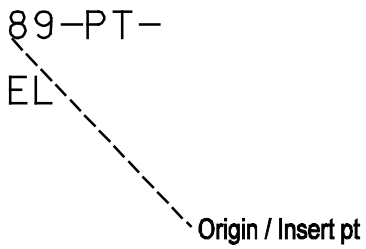
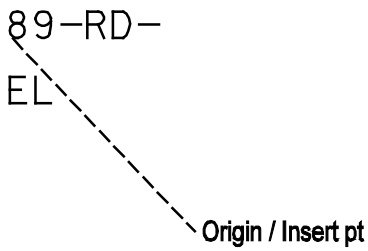
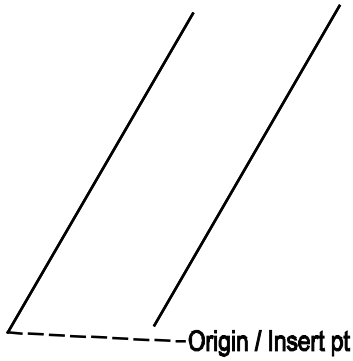
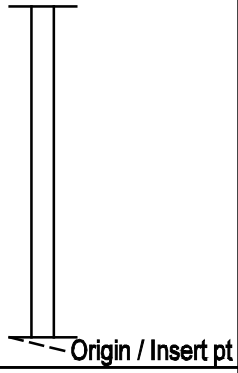
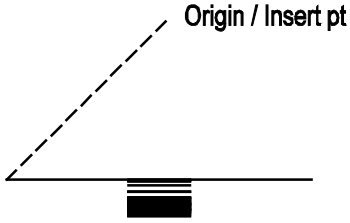
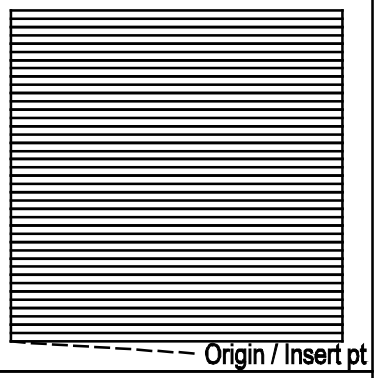
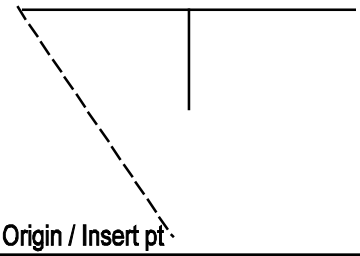
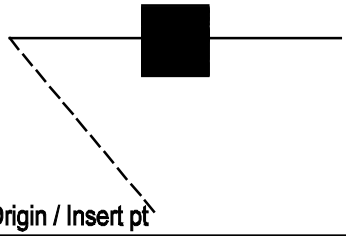
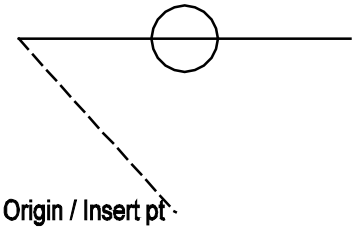
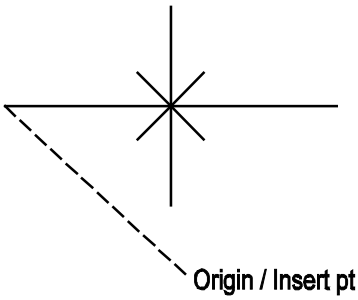
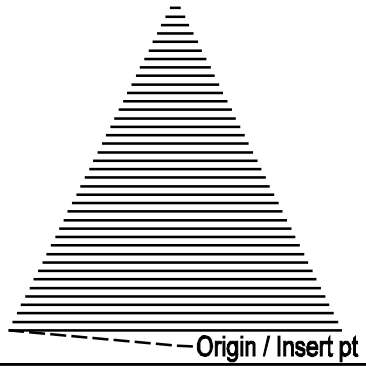
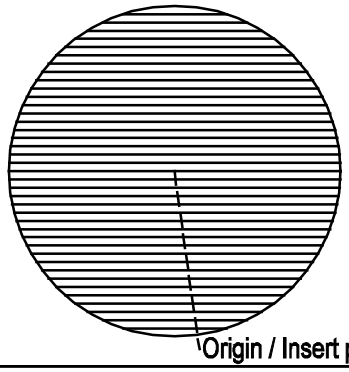
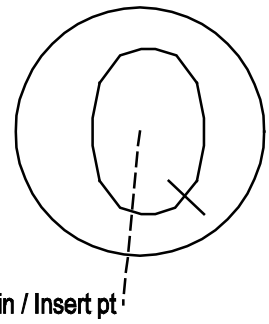
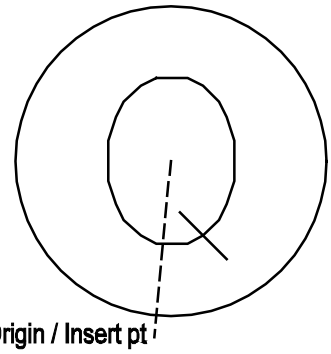
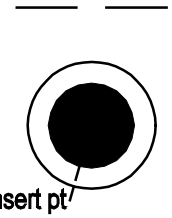
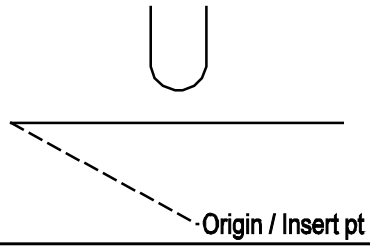
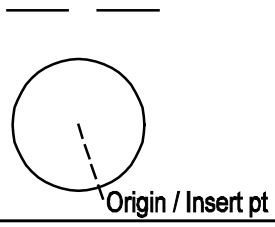
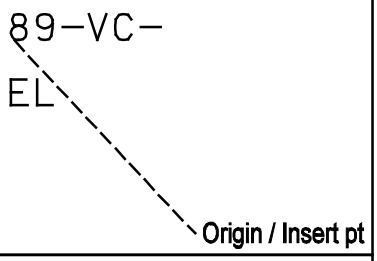
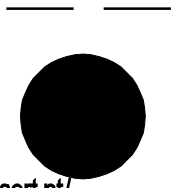
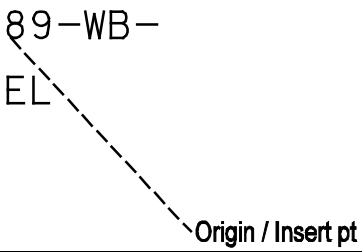
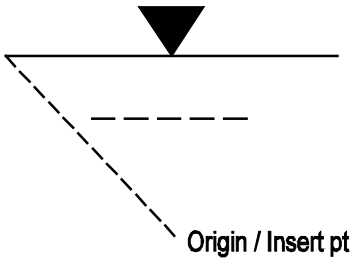
		
Geotechnical: PTHNUM PERC TEST HOLE NUMBER Element Type: Symbol	Geotechnical: RDHNUM ROTARY DRILL HOLE NUMB Element Type: Symbol	Geotechnical: RSLASH REFUSAL SLASHES Element Type: Symbol
		
Geotechnical: SAMPLE SAMPLE Element Type: Symbol	Geotechnical: SDIJNT STRIKE DIP OF INCLINED Element Type: Symbol	Geotechnical: SQUARE SQUARE SYMBOL Element Type: Symbol

		
Geotechnical: STRKDP STRIKE DIP Element Type: Symbol	Geotechnical: STRKVJ STRIKE OF VERTICAL JOI Element Type: Symbol	Geotechnical: STRKVP STRIKE W VERTICAL DIP Element Type: Symbol
		
Geotechnical: SYNCLN SYNCLINE Element Type: Symbol	Geotechnical: TRIANG TRIANGLE SYMBOL Element Type: Symbol	Geotechnical: TSTHOL TEST HOLE SYMBOL Element Type: Symbol
		
Geotechnical: UCONUD UNCONSOLIDATED UNDRAIN Element Type: Symbol	Geotechnical: UCONUT UNCONSOL UNDRND TAXIAL Element Type: Symbol	Geotechnical: UDENIS UNDISTURBED DENISON OR Element Type: Symbol

		
Geotechnical: ULIMIT UNSATISFACTORY LIMIT Element Type: Symbol	Geotechnical: VCHOL VERTICAL CORE HOLE Element Type: Symbol	Geotechnical: VHNUM VIBRACORE HOLE NUMBER Element Type: Symbol
		
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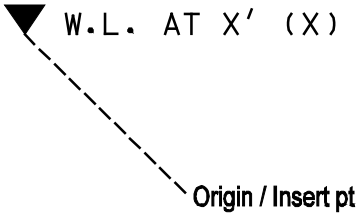
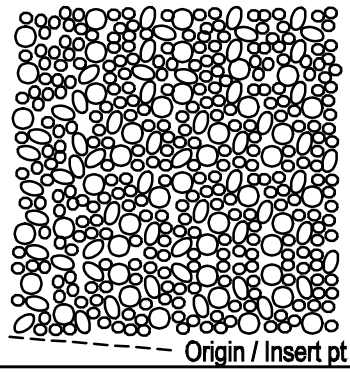
		
Geotechnical: WTRLEV WATER LEVEL Element Type: Symbol		

6 Utilities Lines Library

1Ø OP	1Ø UP	1Ø OS
Utilities: 1PPOHL S PHASE PRI OVERHD ELE Element Type: Line	Utilities: 1PPUNL S PHASE PRI UNDERGD EL Element Type: Line	Utilities: 1PSOHL S PHASE SEC OVERHD ELE Element Type: Line
1Ø US	2Ø OP	2Ø UP
Utilities: 1PSUNL S PHASE SEC UNDERGD EL Element Type: Line	Utilities: 2PPOHL 2 PHASE PRI OVERHD ELE Element Type: Line	Utilities: 2PPUNL 2 PHASE PRI UNDERGD EL Element Type: Line
2Ø OS	2Ø US	3Ø OP
Utilities: 2PSOHL 2 PHASE SEC OVERHD ELE Element Type: Line	Utilities: 2PSUNL 2 PHASE SEC UNDERGD EL Element Type: Line	Utilities: 3PPOHL 3 PHASE PRI OVERHD ELE Element Type: Line

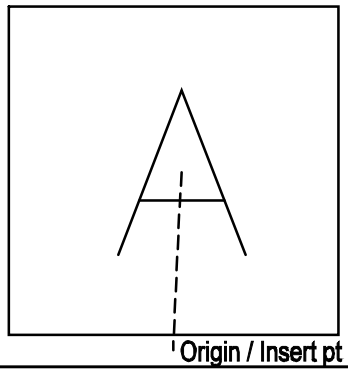
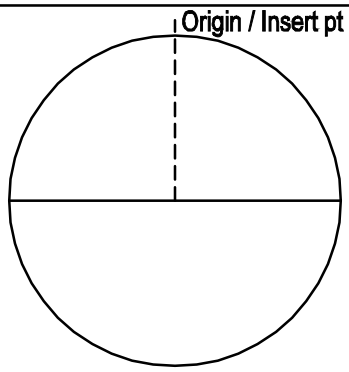
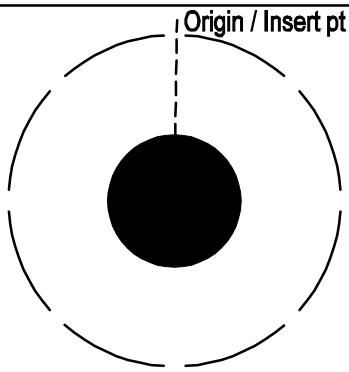
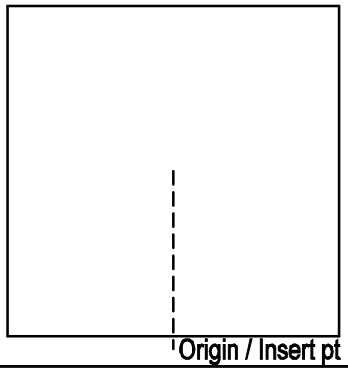
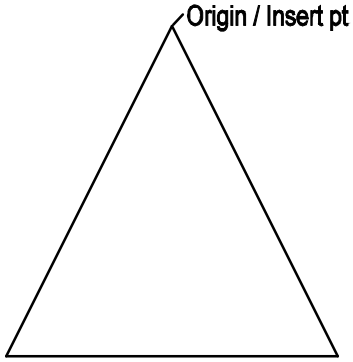
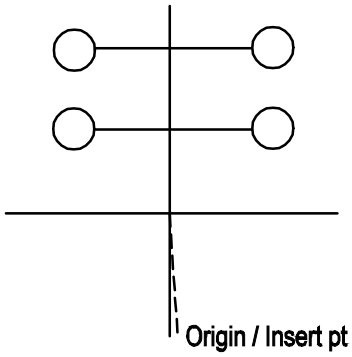
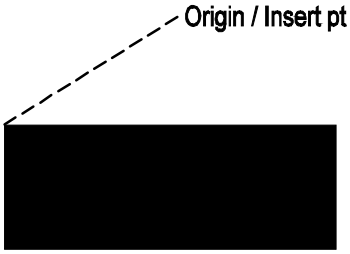
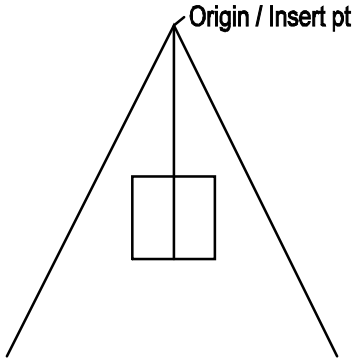
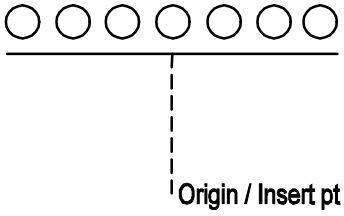
3ØUP	3ØOS	3ØUS
Utilities: 3PPUNL 3 PHASE PRI UNDERGD EL Element Type: Line	Utilities: 3PSOHL 3 PHASE SEC OVERHD ELE Element Type: Line	Utilities: 3PSUNL 3 PHASE SEC UNDERGD EL Element Type: Line
CH	C	FM
Utilities: CHWTRL CHILLED WATER LINE Element Type: Line	Utilities: CONDNL CONDENSATE LINE Element Type: Line	Utilities: FMAINL SANIT SEWER FORCE MAIN Element Type: Line
W		
Utilities: WATERL WATER LINE Element Type: Line		

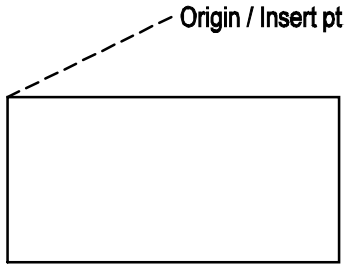
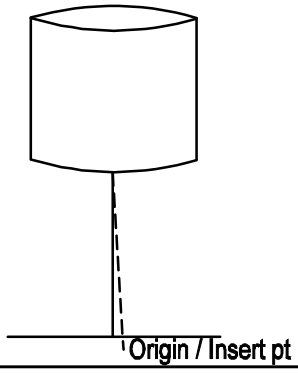
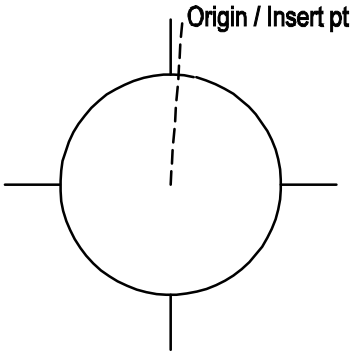
6 Utilities Patterns Library



Utilities: FILTBD
FILTRATION BED
Element type: Pattern

6 Utilities Symbols Library

		
Utilities: AALERT ALERT ROUTE LIGHT Element type: Symbol	Utilities: AAPRON APRON LIGHT Element type: Symbol	Utilities: ABROBS LIGHT BARRIER OBSTRUCT Element type: Symbol
		
Utilities: ACNTR CENTERLINE LIGHT Element type: Symbol	Utilities: ADIST RUNWAY DISTANCE MARKER Element type: Symbol	Utilities: ADISTH LIGHT DISPLACED THRESH Element type: Symbol
		
Utilities: ALARGR LIGHT ARRESTING GEAR Element type: Symbol	Utilities: AOBSTR AIRSPACE OBSTRUCTION Element type: Symbol	Utilities: APAPI PAPI LIGHT Element type: Symbol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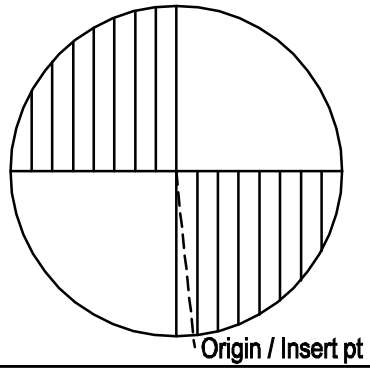
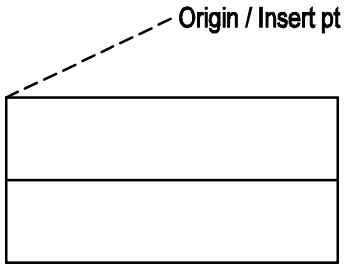
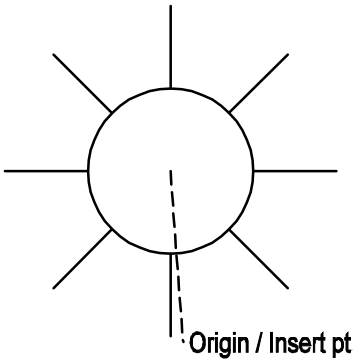
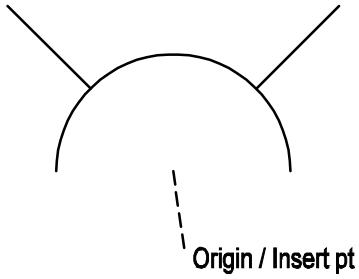
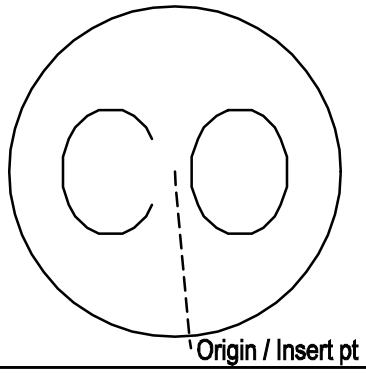
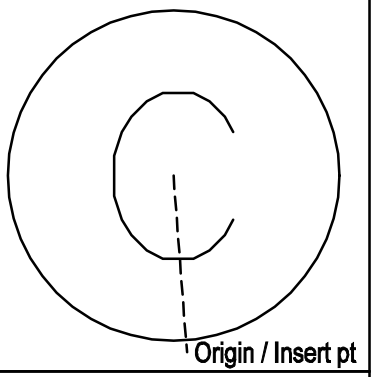
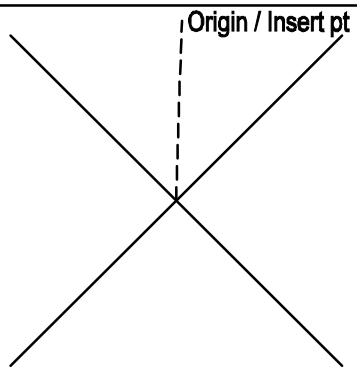
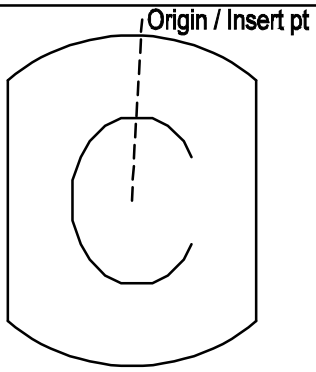
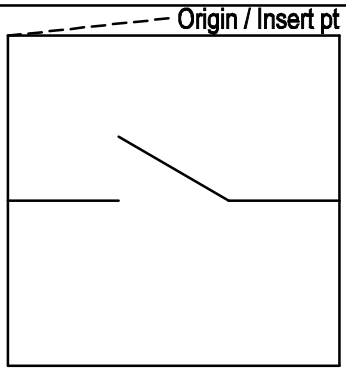
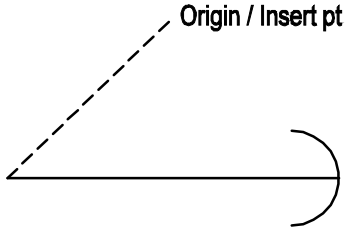
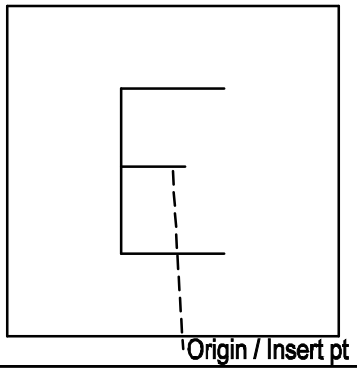
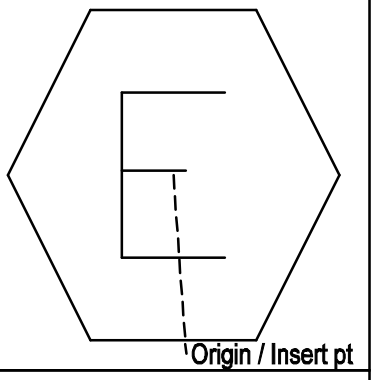
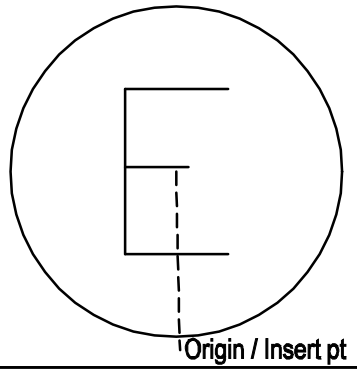
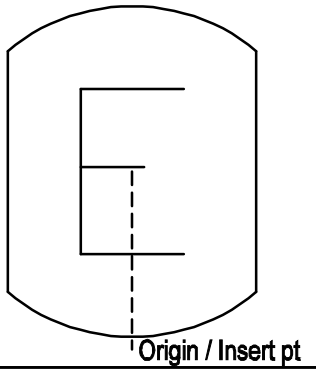
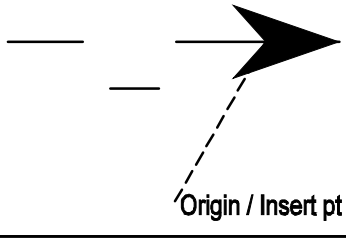
		
Utilities: ASTROB STROBE BEACON LIGHT Element type: Symbol	Utilities: ATHLT THRESHOLD LIGHT Element type: Symbol	Utilities: ATXLIT AIRFIELD TAXIWAY LIGHT Element type: Symbol
		
Utilities: BLDLIT EXTERIOR BUILDING LIGH Element type: Symbol	Utilities: CLNOUT CLEANOUT Element type: Symbol	Utilities: CMMHOL COMMUNICATION MANHOLE Element type: Symbol

		
Utilities: CMPANL COMMUNICATION PANEL Element type: Symbol	Utilities: CMVALT COMMUNICATION VAULT Element type: Symbol	Utilities: DSWTCH DIST SWITCH SWITCHING Element type: Symbol
		
Utilities: DWNGUY DOWN GUY Element type: Symbol	Utilities: ELHHOL ELECTRICAL HANDHOLE Element type: Symbol	Utilities: ELMETR ELECTRICAL METER Element type: Symbol
		
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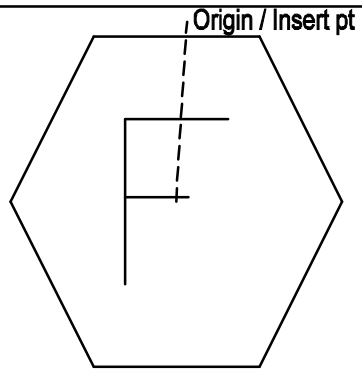
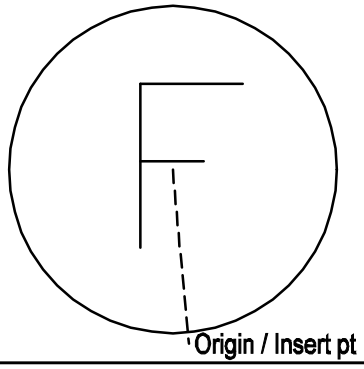
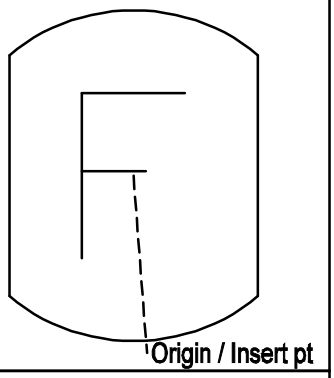
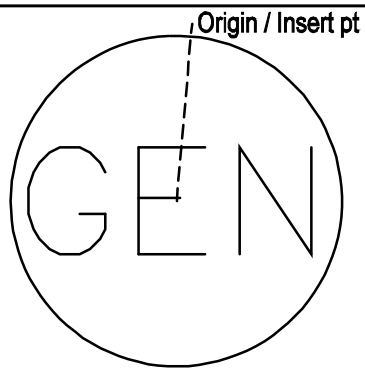
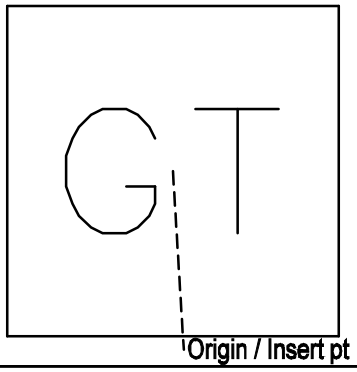
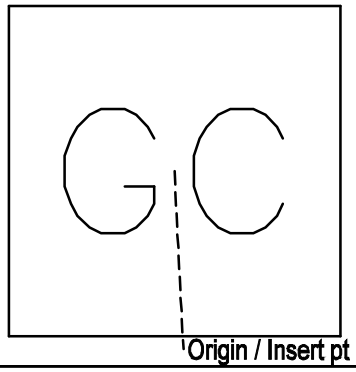
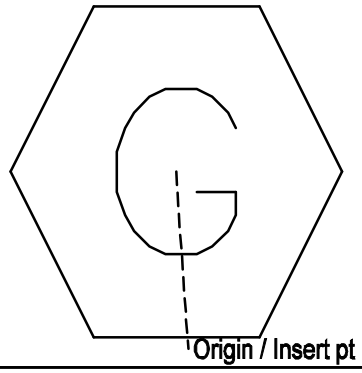
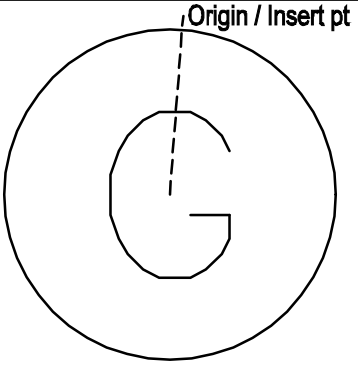
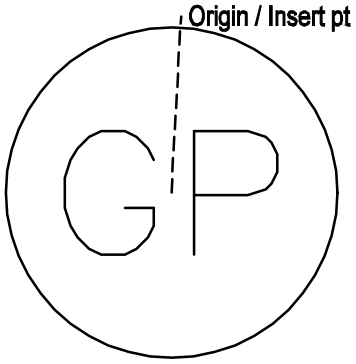
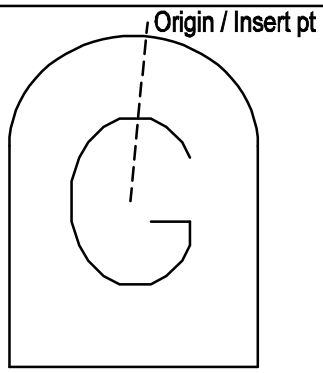
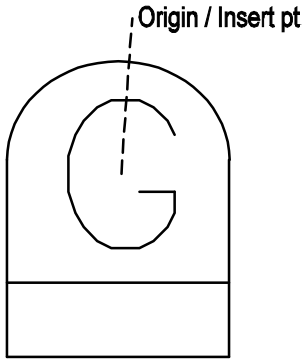
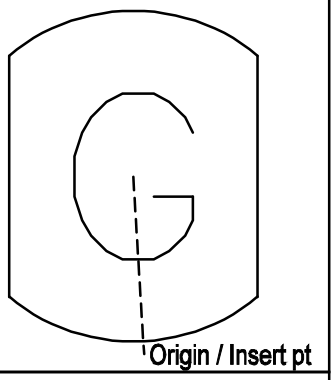
		
Utilities: FOMETR FUEL OIL METER Element type: Symbol	Utilities: FOMHOL FUEL OIL MANHOLE Element type: Symbol	Utilities: FOVALT FUEL OIL VAULT Element type: Symbol
		
Utilities: GENRTR GENERATOR Element type: Symbol	Utilities: GREASE GREASE TRAP Element type: Symbol	Utilities: GRITCH GRIT CHAMBER Element type: Symbol
		
Utilities: GSMETR GAS METER Element type: Symbol	Utilities: GSMHOL GAS MANHOLE Element type: Symbol	Utilities: GSPLNT GAS PLANT Element type: Symbol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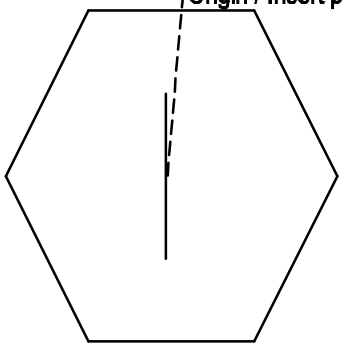	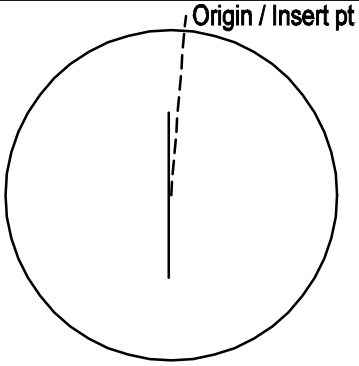	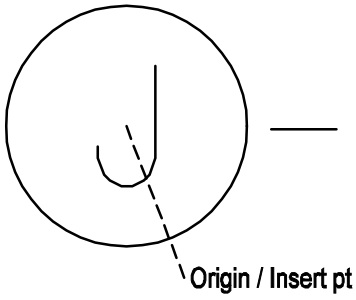
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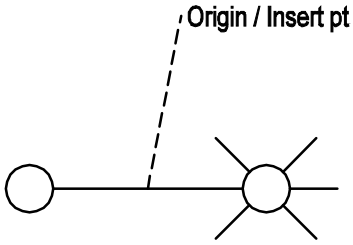
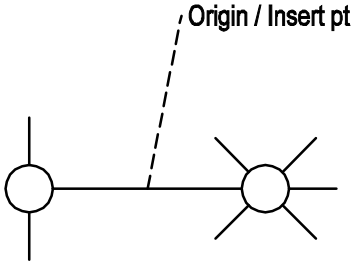
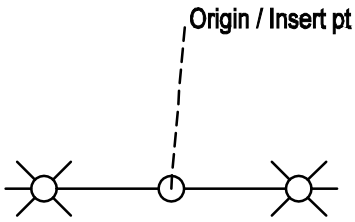
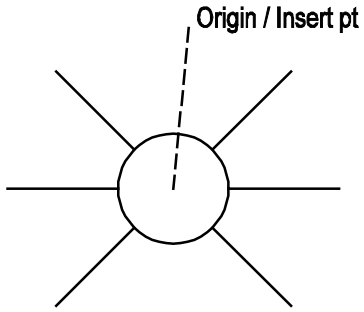
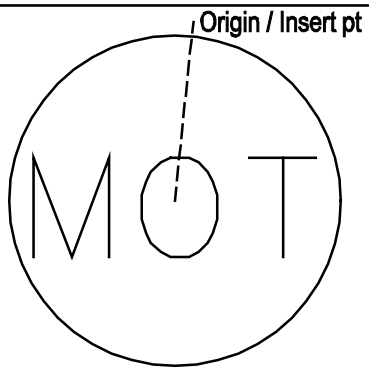
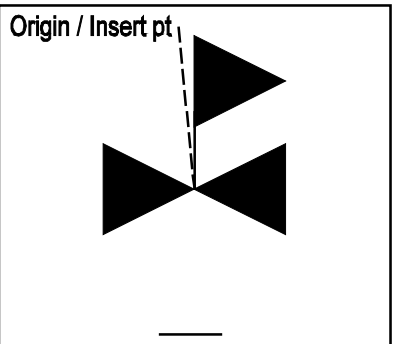
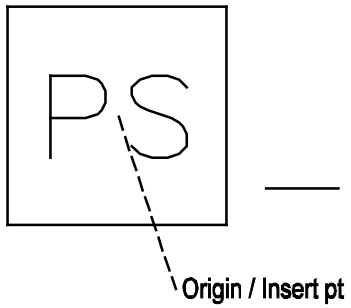
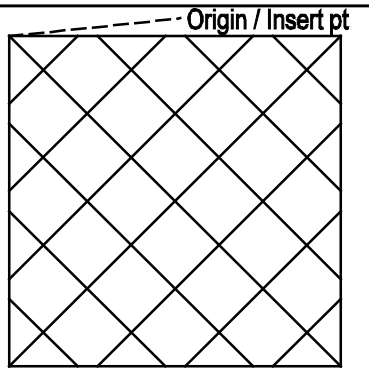
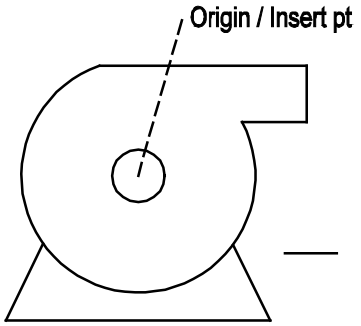
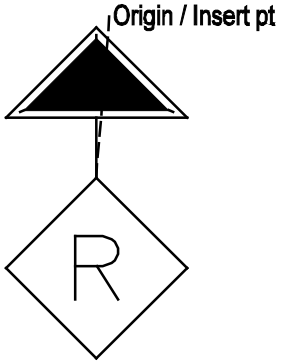
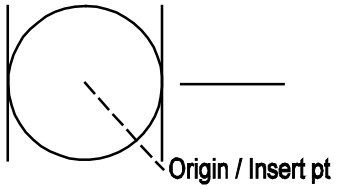
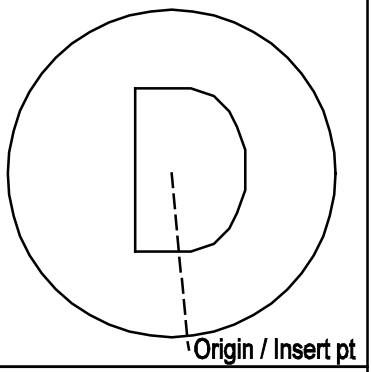
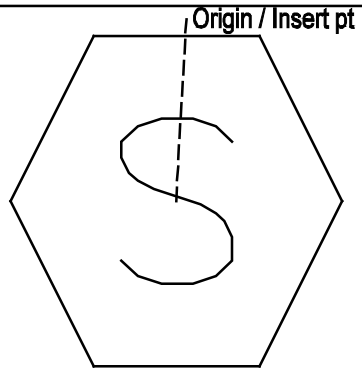
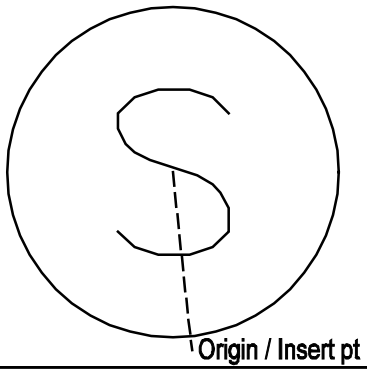
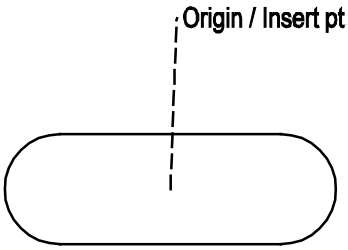
		
Utilities: LP1A1H LIGHT POST 1 ARM 1 HEA Element type: Symbol	Utilities: LP1APP LGHT POST 1 ARM IN PWR Element type: Symbol	Utilities: LP2A2H LIGHT POST 2 ARMS 2 HE Element type: Symbol

		
Utilities: LPEWOA LIGHT POST ELECTROLIER Element type: Symbol	Utilities: MOTOR MOTOR Element type: Symbol	Utilities: PIVALV POST INDICATOR VALVE Element type: Symbol
		
Utilities: PMPSTA PUMP STATION Element type: Symbol	Utilities: PULBOX PULL BOX Element type: Symbol	Utilities: PUMP PUMP Element type: Symbol
		
Utilities: RECTCP RECTIFIER CATHODIC PRO Element type: Symbol	Utilities: RGVALV REGULATOR VALVE Element type: Symbol	Utilities: SDMHOL STORM DRAINAGE MANHOLE Element type: Symbol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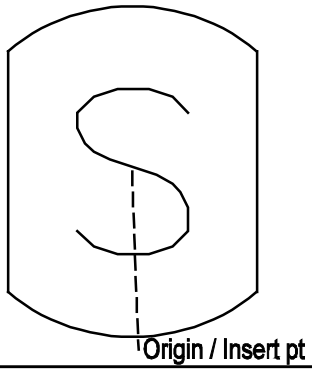
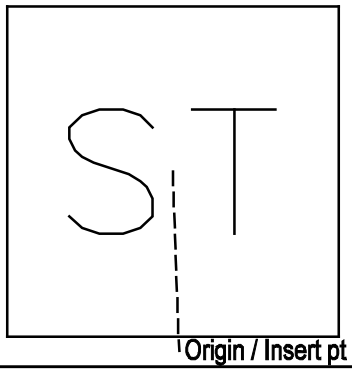
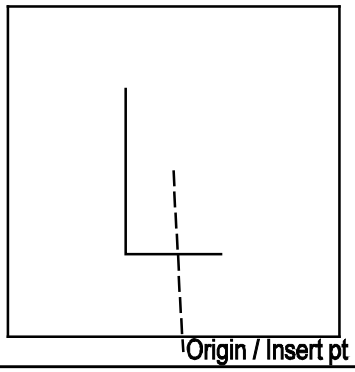
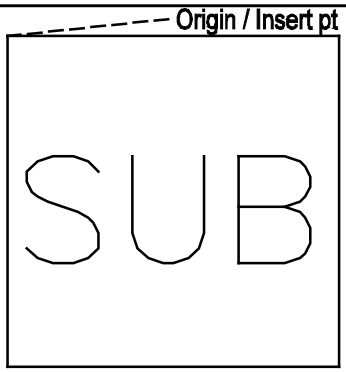
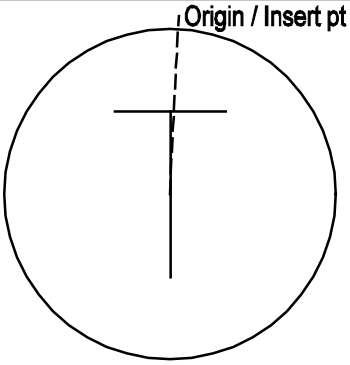
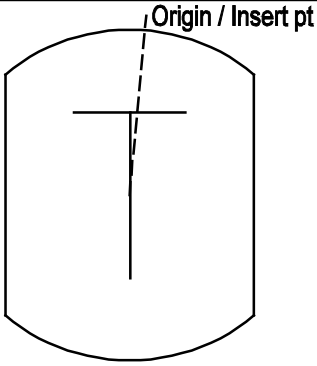
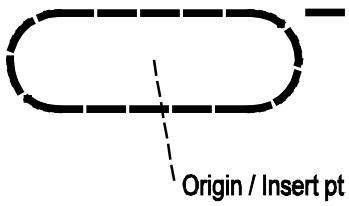
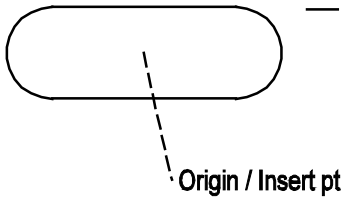
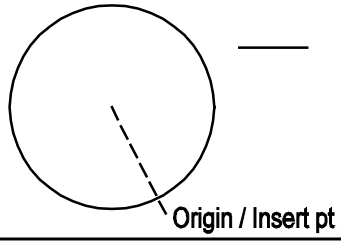
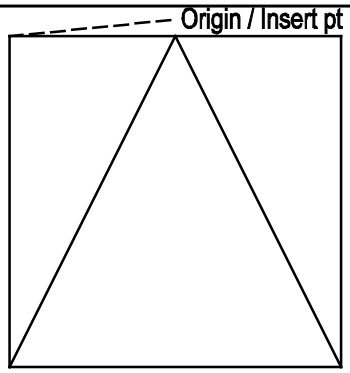
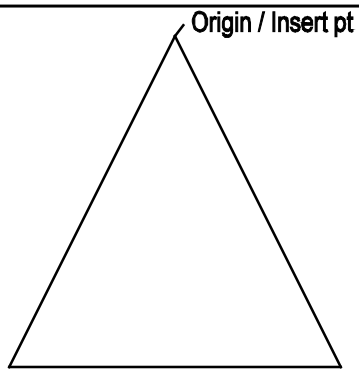
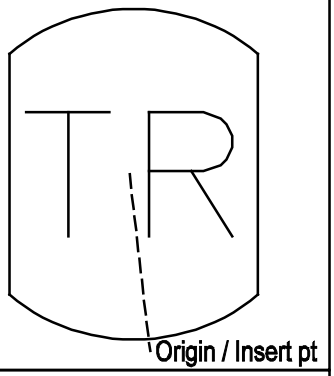
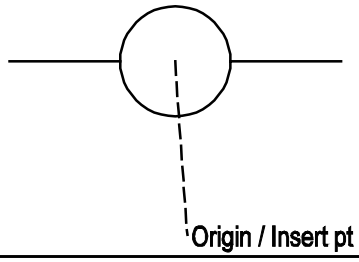
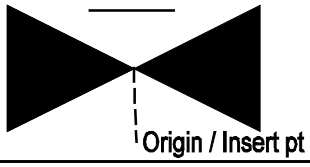
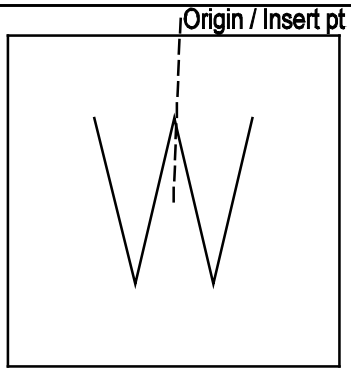
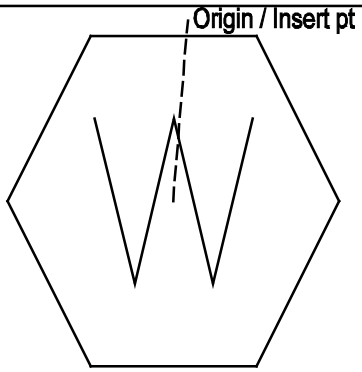
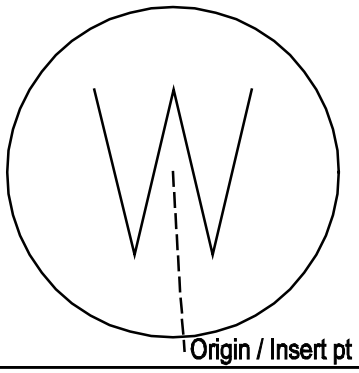
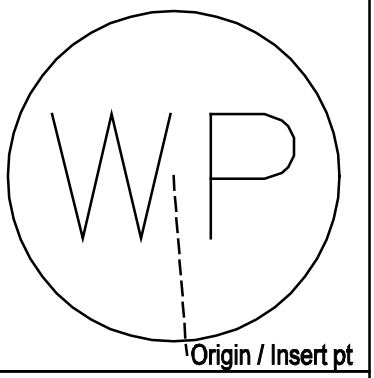
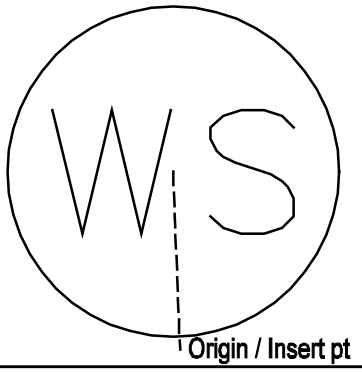
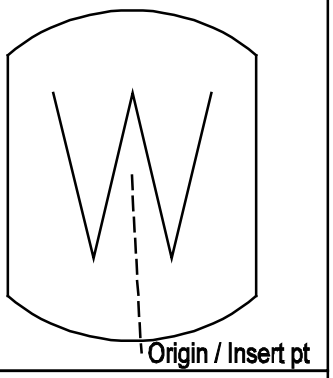
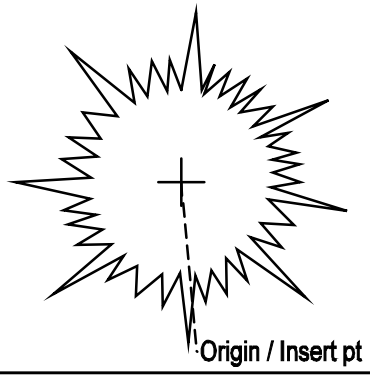
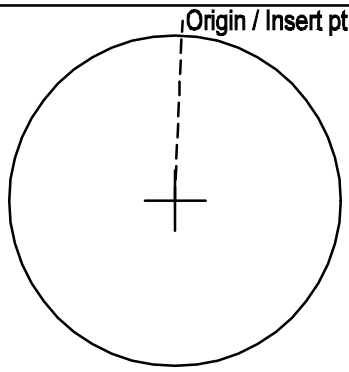
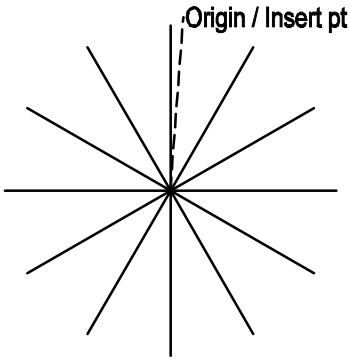
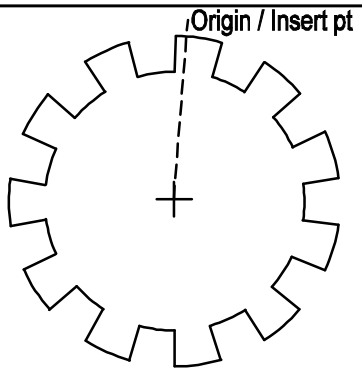
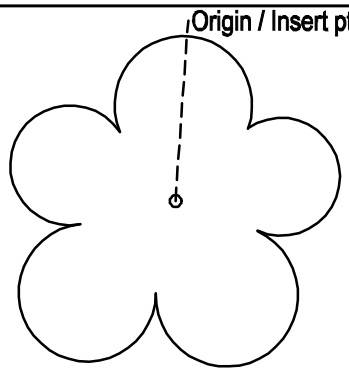
		
Utilities: SNVALT SANITARY VALVE VAULT Element type: Symbol	Utilities: SPTANK SEPTIC TANK Element type: Symbol	Utilities: SSLSTA SANITARY SEWER LIFT ST Element type: Symbol
		
Utilities: SUBSTA SUBSTATION Element type: Symbol	Utilities: TEMHOL TELEPHONE MANHOLE Element type: Symbol	Utilities: TEVALT TELEPHONE VAULT Element type: Symbol

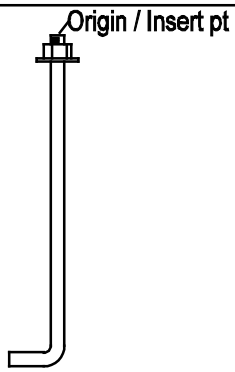
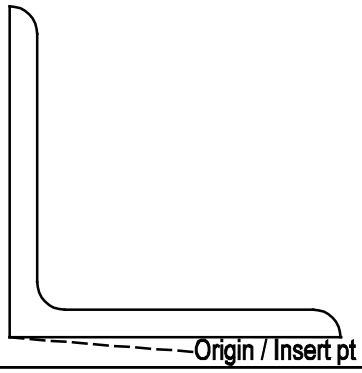
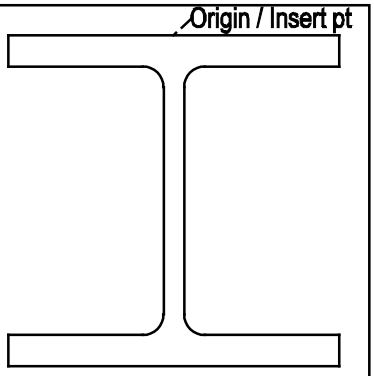
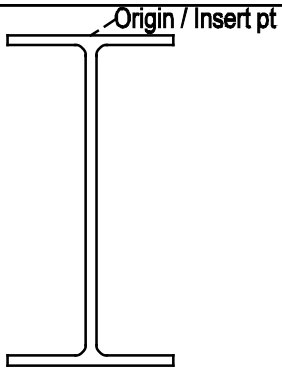
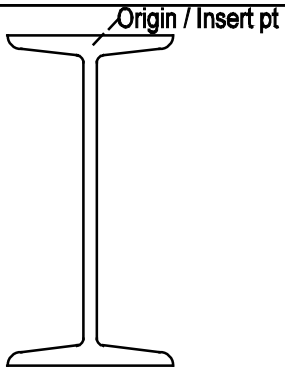
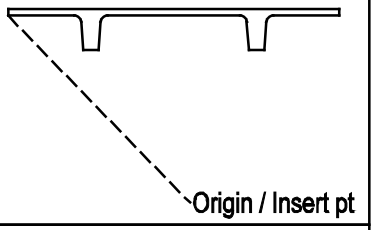
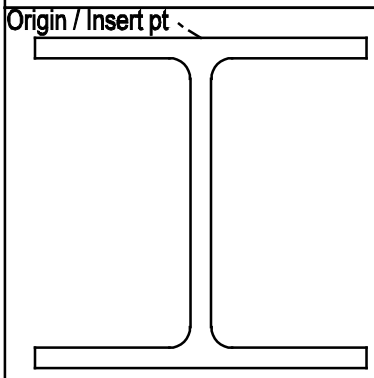
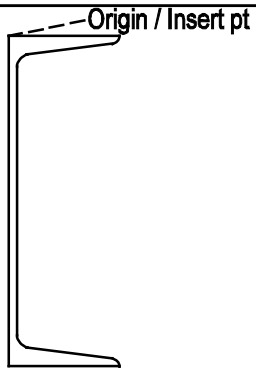
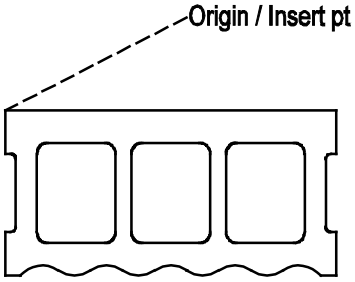
		
Utilities: TNKBG TANK BELOW GROUND Element type: Graphic	Utilities: TNKHAG TANK HORIZ ABOVE GROUN Element type: Symbol	Utilities: TNKVAG TANK VERTICAL ABOVE GR Element type: Symbol
		
Utilities: TRNPAD TRANSFORMER PAD MOUNTE Element type: Symbol	Utilities: TRNPOL TRANSFORMER POLE MOUNT Element type: Symbol	Utilities: TRVALT TRANSFORMER VAULT Element type: Symbol
		
Utilities: UTPOLE UTILITY POLE Element type: Symbol	Utilities: VALVE GENERIC VALVE Element type: Symbol	Utilities: WAHHOL WATER HANDHOLE Element type: Symbol

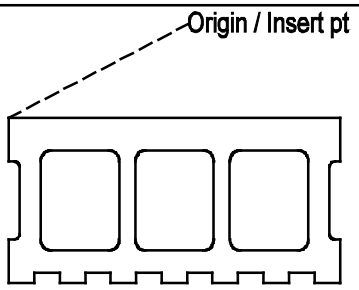
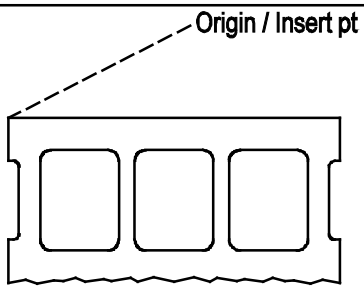
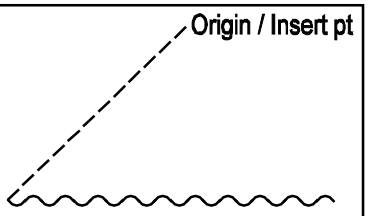
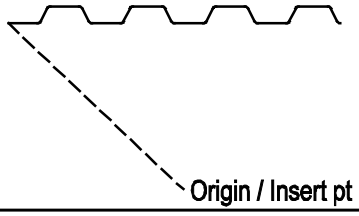
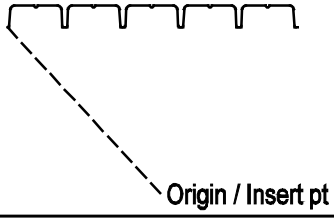
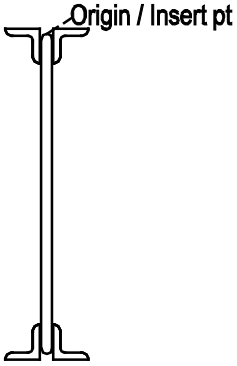
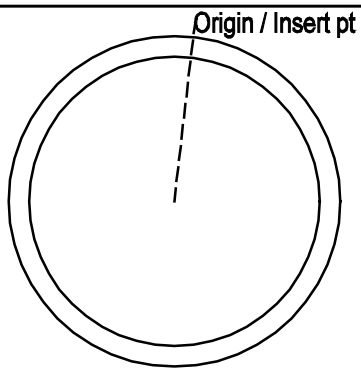
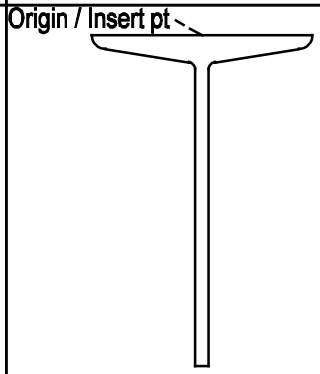
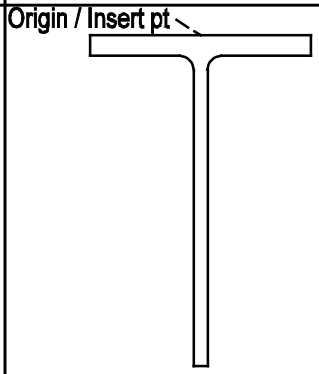
		
Utilities: WAMETR WATER METER Element type: Symbol	Utilities: WAMHOL WATER MANHOLE Element type: Symbol	Utilities: WAPLNT WATER PLANT Element type: Symbol
		
Utilities: WASOFT WATER SOFTENER Element type: Symbol	Utilities: WAVALT WATER VALVE VAULT Element type: Symbol	

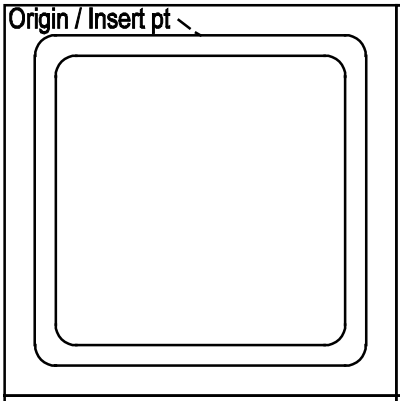
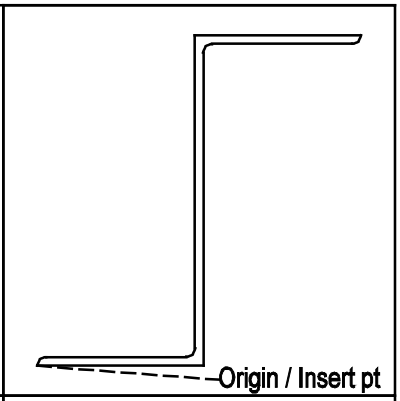
7 Landscape Architecture Symbols Library

		
Landscape Architecture: SHRUBC CONIFEROUS SHRUB Element Type: Symbol	Landscape Architecture: SHRUBD DECIDUOUS SHRUB Element Type: Symbol	Landscape Architecture: TREEC CONIFEROUS TREE Element Type: Symbol
		
Landscape Architecture: TREED DECIDUOUS TREE Element Type: Symbol	Landscape Architecture: TREEG GENERIC TREE Element Type: Symbol	

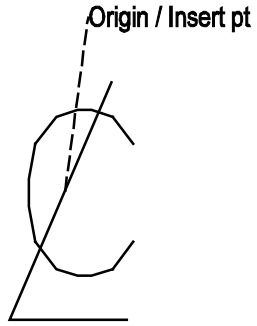
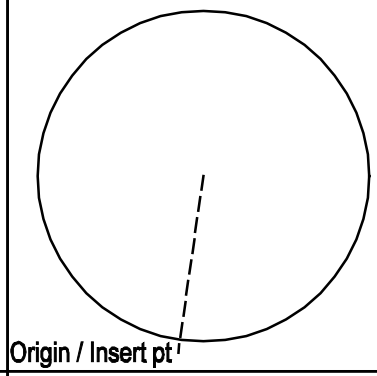
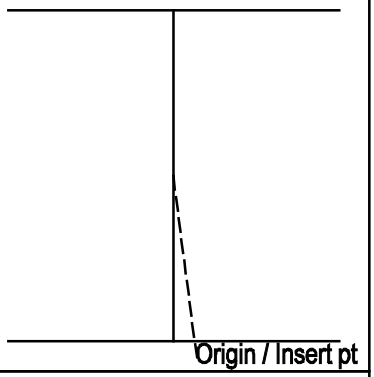
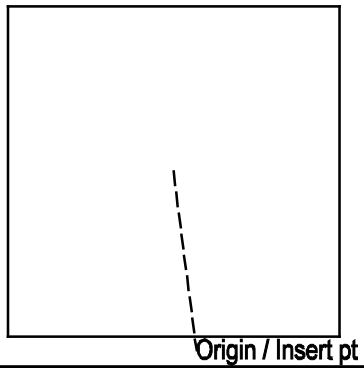
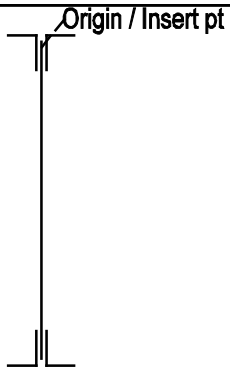
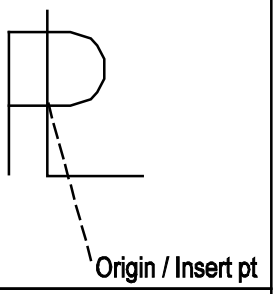
8 Structural Objects Library

		
Structural: ANBOLT ANCHOR BOLR Element Type: Object	Structural: ANGLE ANGLE Element Type: Object	Structural: BEAMHP BEAM HP SHAPE Element Type: Object
		
Structural: BEAMM BEAM M SHAPE Element Type: Object	Structural: BEAMS BEAM S SHAPE Element Type: Object	Structural: BEAMT PRECAST T BEAM Element Type: Object
		
Structural: BEAMW BEAM W SHAPE Element Type: Object	Structural: CCHNNL C CHANNEL Element Type: Object	Structural: CMUFL FLUTED CONC BLK 8X8X16 Element Type: Object

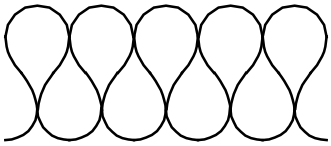
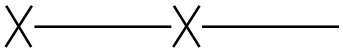
		
Structural: CMURIB RIBBED CONC BLK 8X8X16 Element Type: Object	Structural: CMUSF SPLIT FACE CONC BLK 8X Element Type: Object	Structural: DECKCR CORRUGATED METAL DECK Element Type: Object
		
Structural: DECKFL METAL DECK FLOOR Element Type: Object	Structural: DECKRF METAL DECK ROOF Element Type: Object	Structural: JSTBR2 JOIST BAR DOUBLE LINE Element Type: Object
		
Structural: PIPE PIPE STANDARD Element Type: Object	Structural: TEEST TEE ST Element Type: Object	Structural: TEEWT TEE WT Element Type: Object

	
Structural: TUBE STRUCTURAL TUBING Element Type: Object	Structural: ZSHAPE STRUCTURAL Z SHAPE Element Type: Object

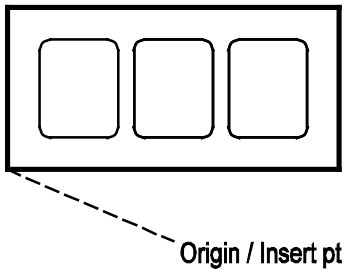
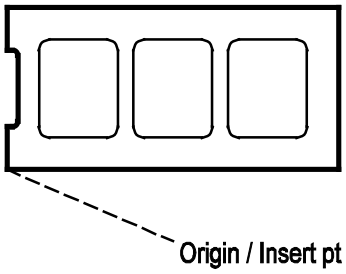
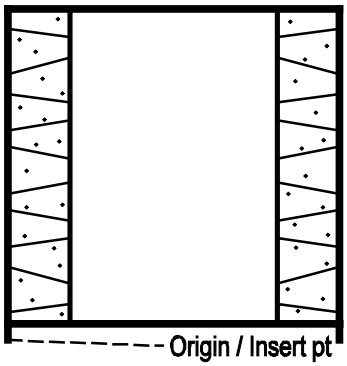
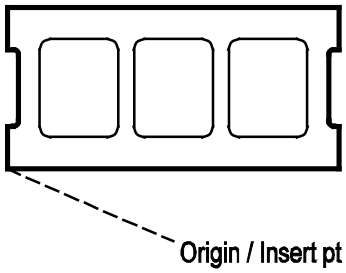
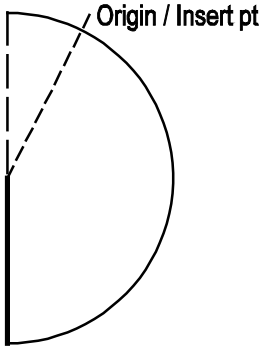
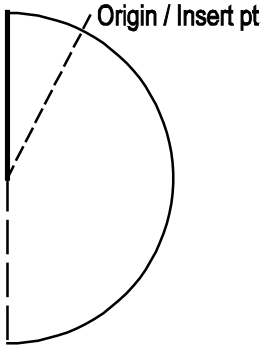
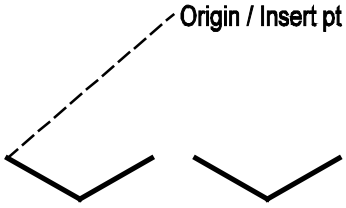
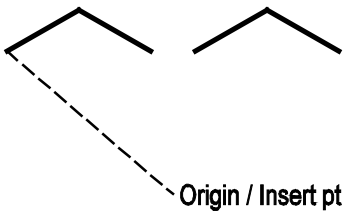
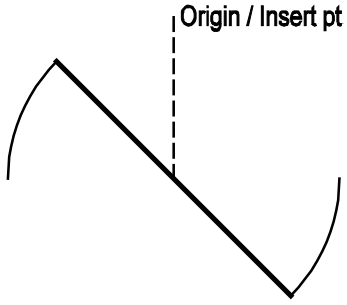
8 Structural Symbols Library

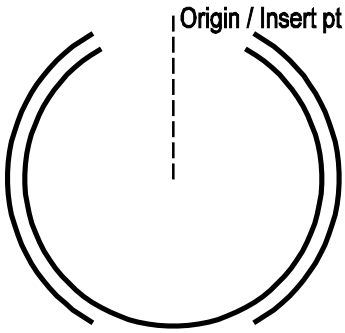
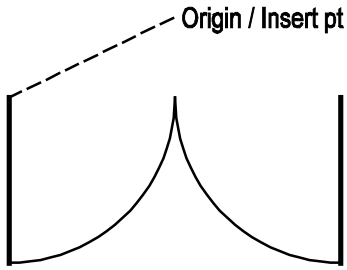
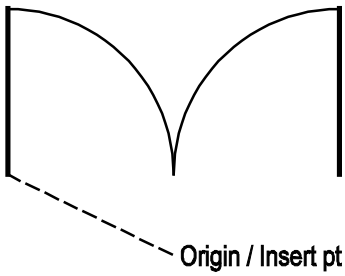
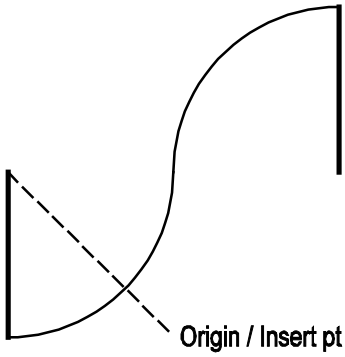
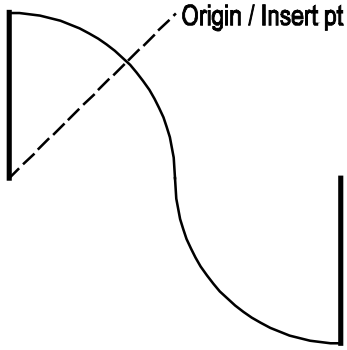
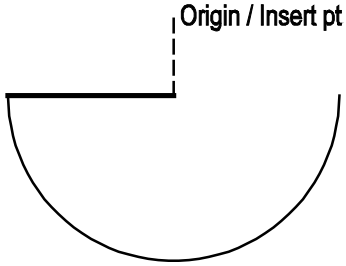
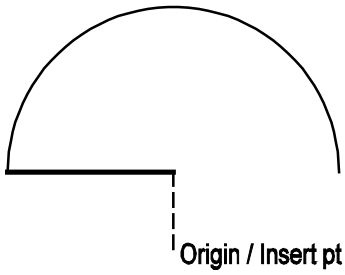
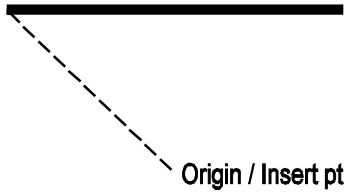
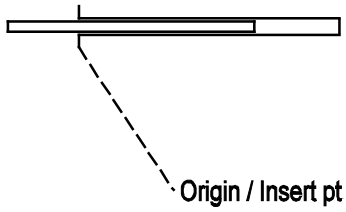
		
Structural: CNTLIN CENTERLINE SYMBOL Element Type: Symbol	Structural: COLCIR CIRCULAR COLUMN SYMBOL Element Type: Symbol	Structural: COLIBM I BEAM COLUMN SYMBOL Element Type: Symbol
		
Structural: COLSQR SQUARE COLUMN SYMBOL Element Type: Symbol	Structural: JSTBR1 JOIST BAR SINGLE LINE Element Type: Symbol	Structural: PLATE PLATE SYMBOL Element Type: Symbol

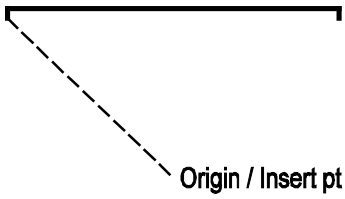
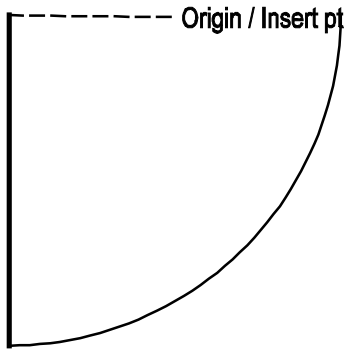
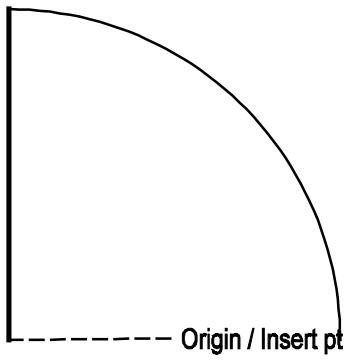
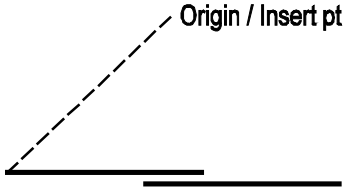
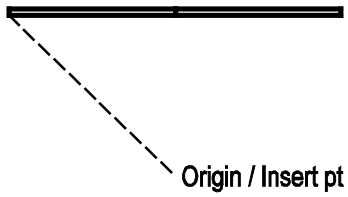
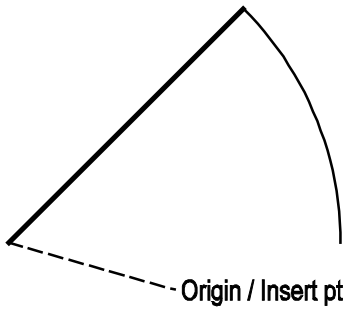
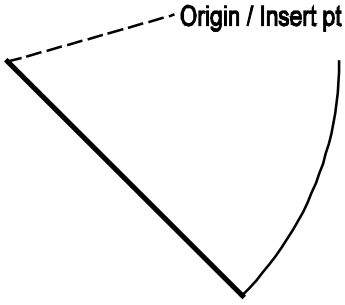
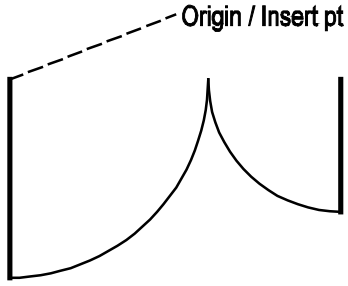
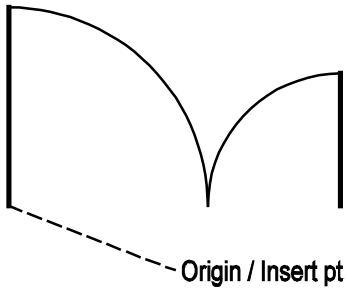
9 Architectural Lines Library

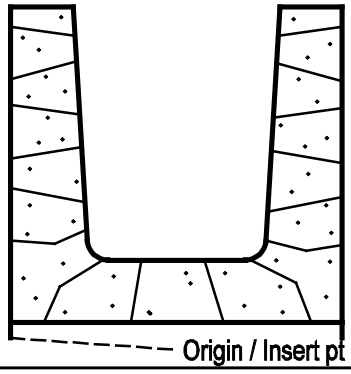
	
Architectural: INBATT Loose fill Batt. Insulation Element Type: Line	Architectural: WWFBRC WELDED WIRE FABRIC Element Type: Line

9 Architectural Objects Library

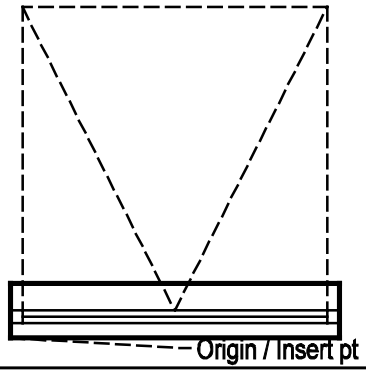
		
Architectural: CMUBLK CONC BLOCK 8X8X16 Element Type: Object	Architectural: CMUCOR CONC BLOCK 8X8X16 COR. Element Type: Object	Architectural: CMUEND CONC BLOCK 8X8X16 END Element Type: Object
		
Architectural: CMUSTR CONC BLOCK 8X8X16 STR. Element Type: Object	Architectural: DOR18L LEFT DOOR 180 DEGREE S Element Type: Object	Architectural: DOR18R RIGHT DOOR 180 DEGREE Element Type: Object
		
Architectural: DORBFL LEFT BIFOLD DOOR Element Type: Object	Architectural: DORBFR RIGHT BIFOLD DOOR Element Type: Object	Architectural: DORCPV DOOR CENTER PIVOT Element Type: Object

		
Architectural: DORCYL CYLINDRICAL DOOR Element Type: Object	Architectural: DORDBL LEFT DOUBLE DOOR Element Type: Object	Architectural: DORDBR RIGHT DOUBLE DOOR Element Type: Object
		
Architectural: DORDEL LEFT DOUBLE EGRESS DOO Element Type: Object	Architectural: DORDER RIGHT DOUBLE EGRESS DO Element Type: Object	Architectural: DORFSL LEFT SINGLE FULL SWING Element Type: Object
		
Architectural: DORFSR RIGHT SINGLE FULL SWIN Element Type: Object	Architectural: DOROVH OVERHEAD DOOR Element Type: Object	Architectural: DORPOC DOOR POCKET Element Type: Object

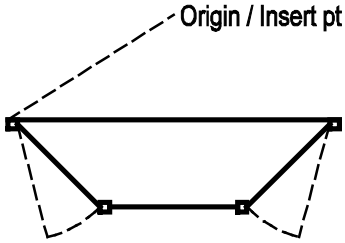
		
Architectural: DORRUP ROLL UP DOOR Element Type: Object	Architectural: DORSHL LEFT SINGLE HINGED DOO Element Type: Object	Architectural: DORSHR RIGHT SINGLE HINGED DO Element Type: Object
		
Architectural: DORSLD SLIDING DOOR Element Type: Object	Architectural: DORSLS SLIDING SURFACE DOOR Element Type: Object	Architectural: DORSPL LEFT SINGLE PIVOT DOOR Element Type: Object
		
Architectural: DORSPR RIGHT SINGLE PIVOT DOO Element Type: Object	Architectural: DORUDL LEFT UNEVEN DOUBLE DOO Element Type: Object	Architectural: DORUDR RIGHT UNEVEN DOUBLE DO Element Type: Object



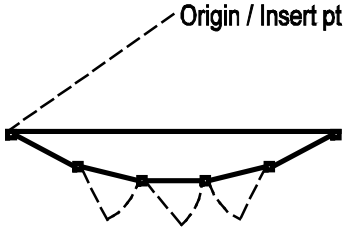
Architectural: LINTEL
CONC BEAM BOND LINTEL
Element Type: Object



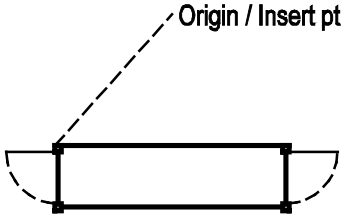
Architectural: WINAWN
WINDOW AWNING
Element Type: Object



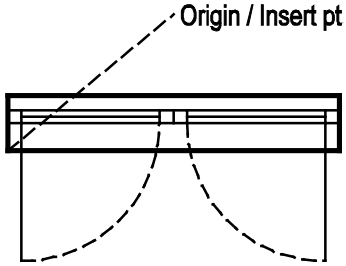
Architectural: WINBAY
PROJECTED BAY WINDOW
Element Type: Object



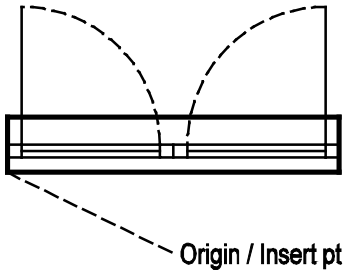
Architectural: WINBOW
PROJECTED BOW WINDOW
Element Type: Object



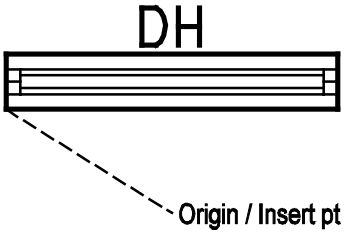
Architectural: WINBOX
PROJECTED BOX WINDOW
Element Type: Object



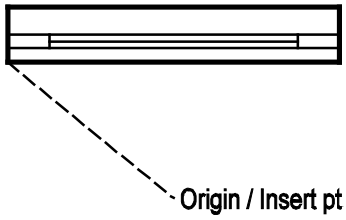
Architectural: WINDCI
WNDW DBLCASEMNT INWRD
Element Type: Object



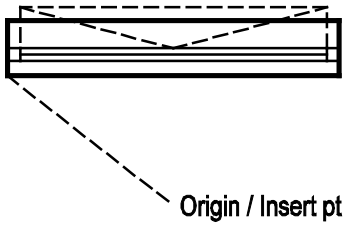
Architectural: WINDCO
WNDW DBLCASEMNT OUTWAR
Element Type: Object



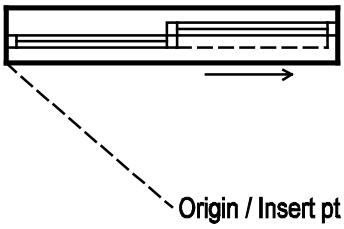
Architectural: WINDH
DOUBLE HUNG WINDOW
Element Type: Object



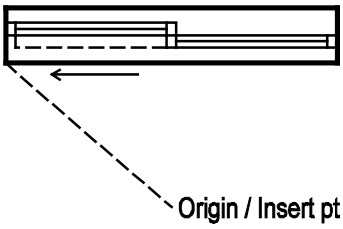
Architectural: WINFIX
FIXED 1 FOOT WINDOW
Element Type: Object



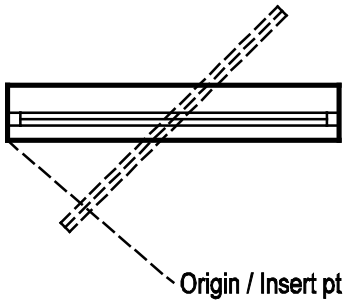
Architectural: WINJAL
JALOUSIE WINDOW
Element Type: Object



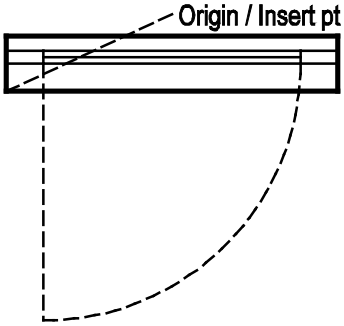
Architectural: WINOSL
SLIDNG WNDW LFT OPRTNG
Element Type: Object



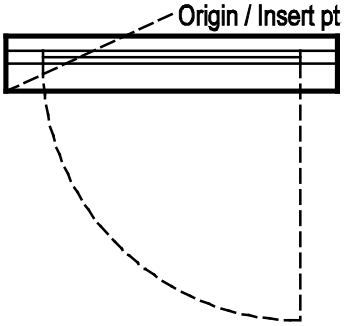
Architectural: WINOSR
SLDNG WNDW RGHT OPRTNG
Element Type: Object



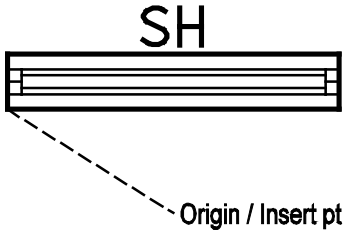
Architectural: WINPIV
PIVOT WINDOW
Element Type: Object



Architectural: WINSCL
WNDWSNGLCASEMNTLEFTJAM
Element Type: Object

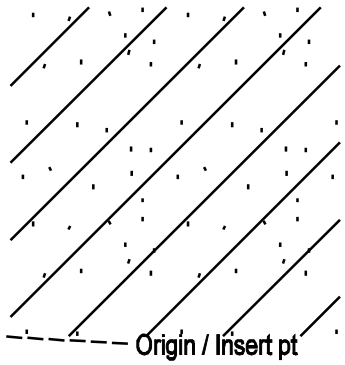


Architectural: WINSCR
WNDWSNGLCASEMNTRGHTJAM
Element Type: Object

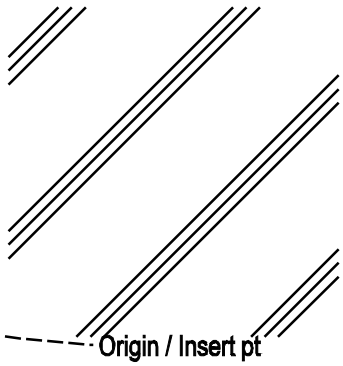


Architectural: WINSH
SINGLE HUNG WINDOW
Element Type: Object

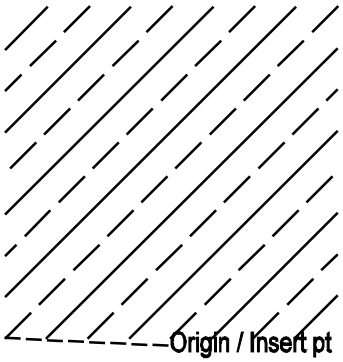
9 Architectural Patterns Library



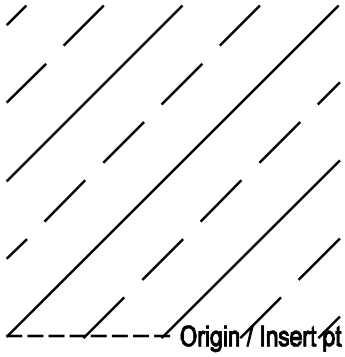
Architectural: ADOBE
MSNRY ADOBE RAMMED EAR
Element Type: Pattern



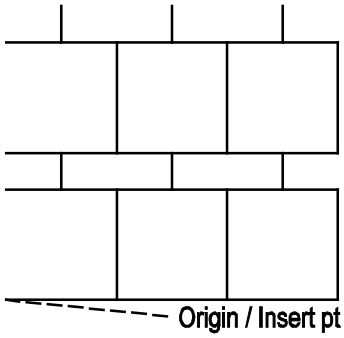
Architectural: ALUMIN
ALUMINUM PATTERN
Element Type: Pattern



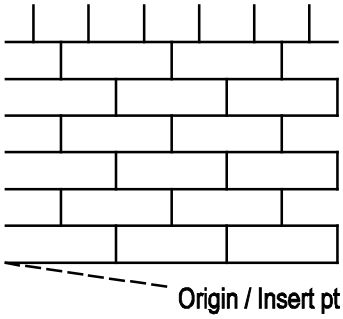
Architectural: ASHLER
STONE ASHLER PATTERN
Element Type: Pattern



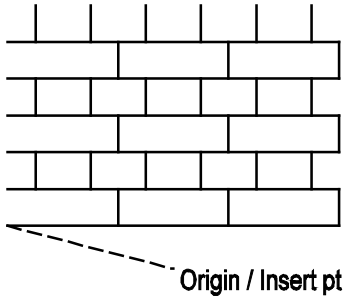
Architectural: BRASS
BRONZE BRASS PATTERN
Element Type: Pattern



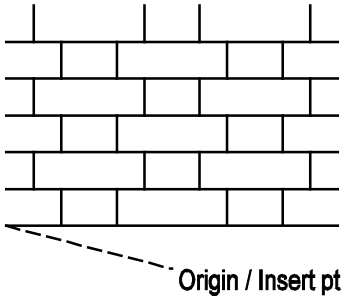
Architectural: BRBLCO
COURSED BRICK BLK PTN
Element Type: Pattern



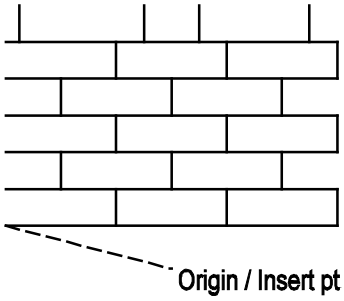
Architectural: BRCOBD
COMMON BOND BRICK PTN
Element Type: Pattern



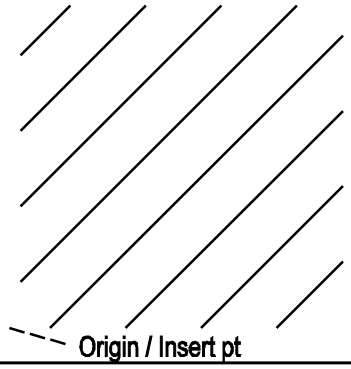
Architectural: BRENBD
ENGLISH BOND BRICK PTN
Element Type: Pattern



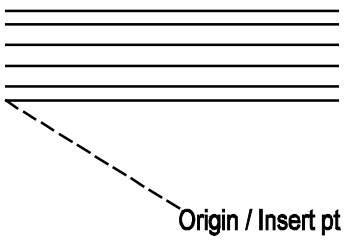
Architectural: BRFLBD
FLEMISH BOND BRICK PTN
Element Type: Pattern



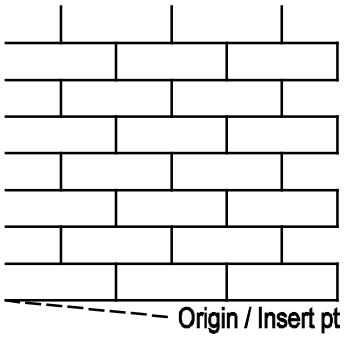
Architectural: BRFLCB
FLEMISH COM BOND PTN
Element Type: Pattern



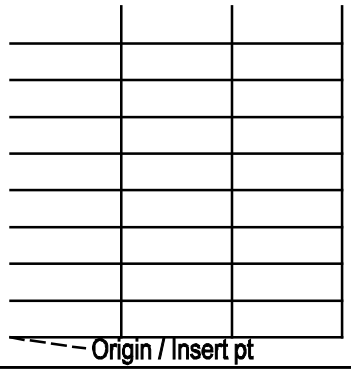
Architectural: BRKCF
COMMON FACE BRICK PTN
Element Type: Pattern



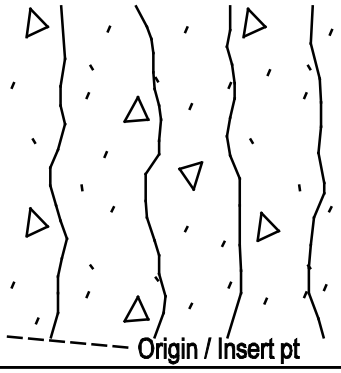
Architectural: BRKELE
BRICK ELEVATION PTN
Element Type: Pattern



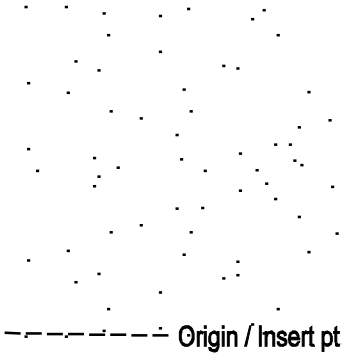
Architectural: BRRNBD
BRICK RUNNING BOND PTN
Element Type: Pattern



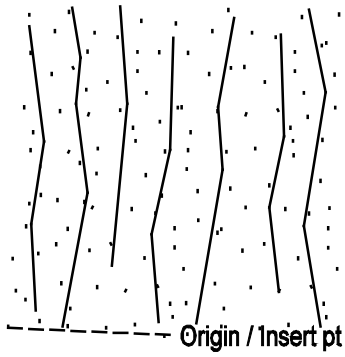
Architectural: BRSTBD
BRICK STACK BOND PATTE
Element Type: Pattern



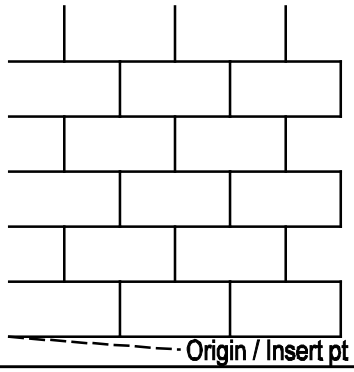
Architectural: CCBSS
CAST CONC BLK SM SCALE
Element Type: Pattern



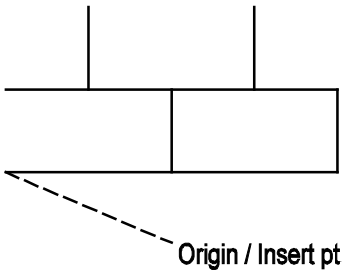
Architectural: CCELEV
CONC CEMENT ELEV PTN
Element Type: Pattern



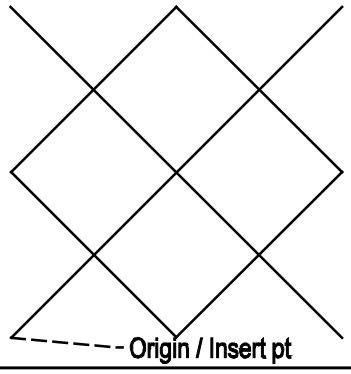
Architectural: CDTOP
CEMENTITIOUSDECK TOPPI
Element Type: Pattern



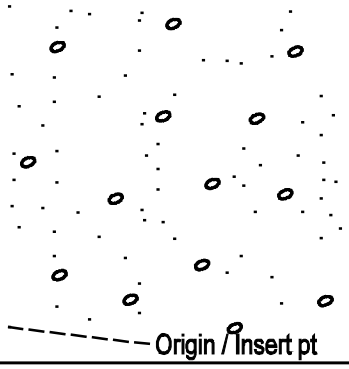
Architectural: CMUELB
ELEVATION BLOCK PTN
Element Type: Pattern



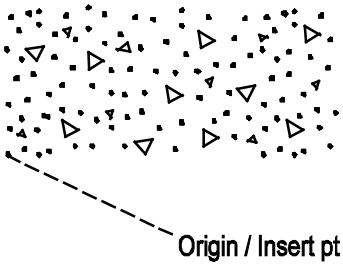
Architectural: CMUPTN
CMU BLOCK PATTERN
Element Type: Pattern



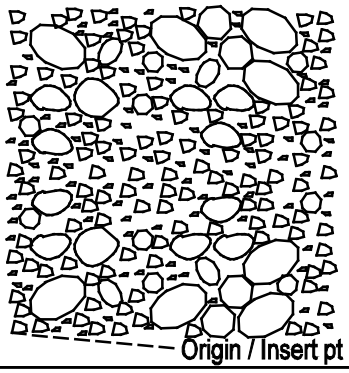
Architectural: CONBLK
CONCRETE BLOCK PATTERN
Element Type: Pattern



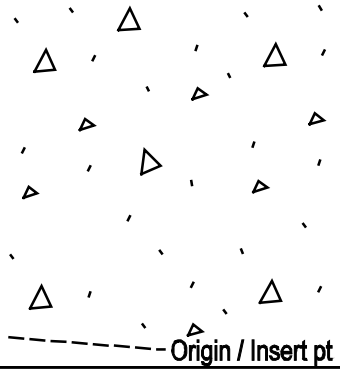
Architectural: CONCCN
CONCRETE CINDER
Element Type: Pattern



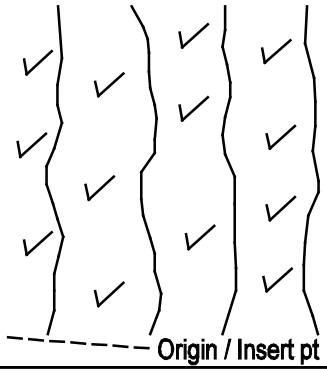
Architectural: CONCLW
CONCRETE LIGHT WEIGHT
Element Type: Pattern



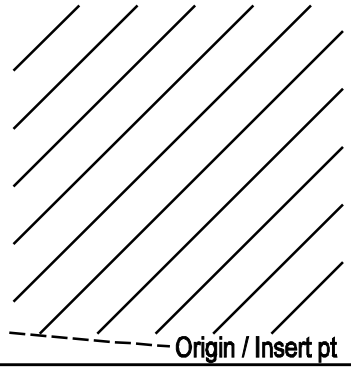
Architectural: CONCPR
PRECAST CASTIN PLACECO
Element Type: Pattern



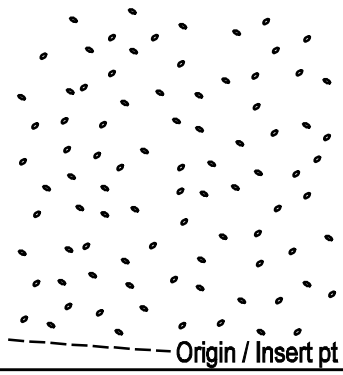
Architectural: CONCST
CONCRETE STONE
Element Type: Pattern



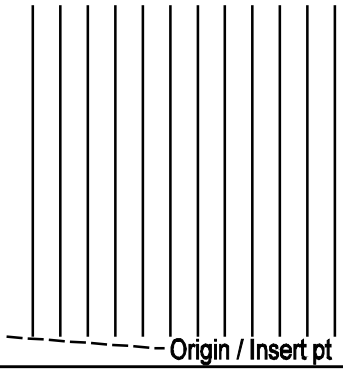
Architectural: CONPBS
PUMICE BLK CONC SMSCAL
Element Type: Pattern



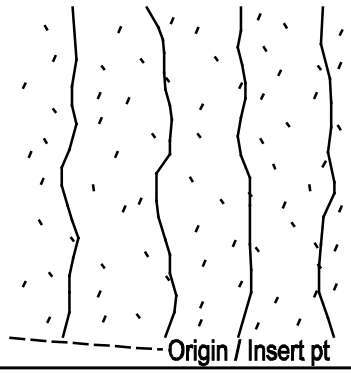
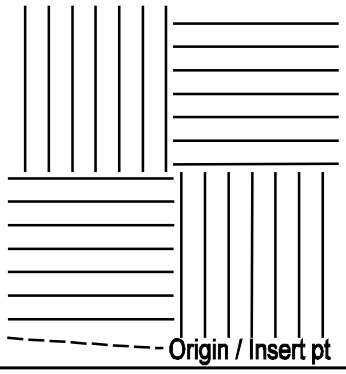
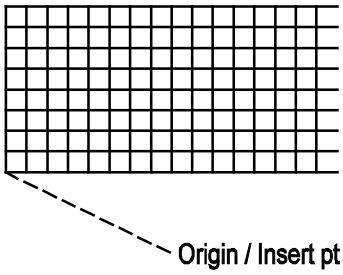
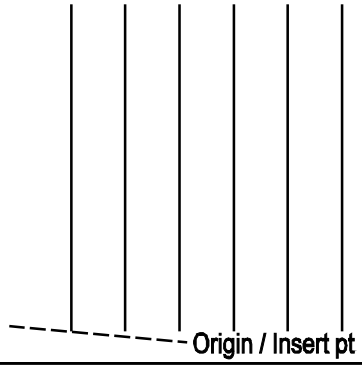
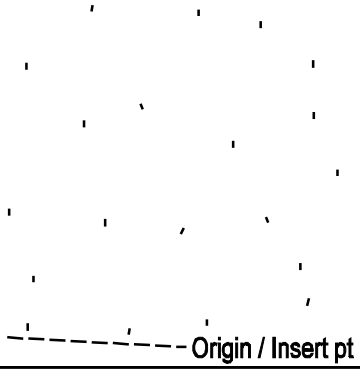
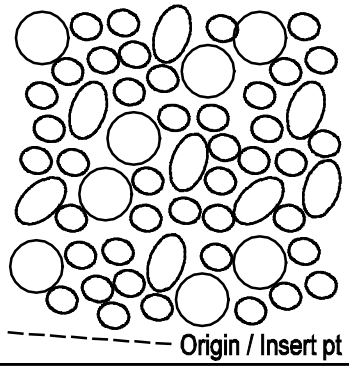
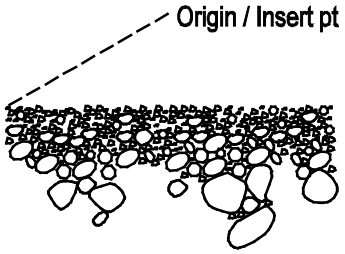
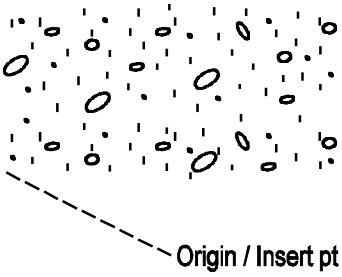
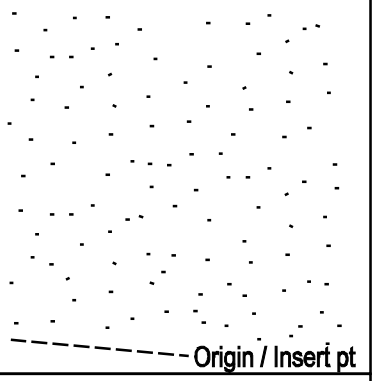
Architectural: CSTIRN
CAST IRON PATTERN
Element Type: Pattern

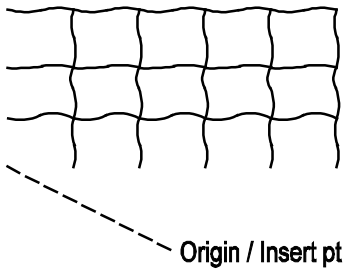


Architectural: CSTSTN
CAST STONE PATTERN
Element Type: Pattern

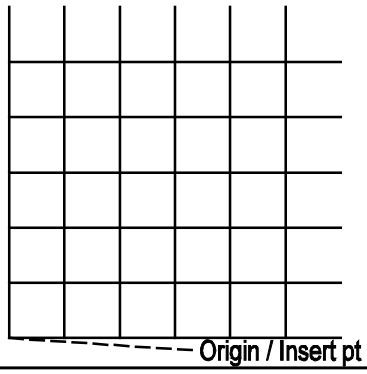


Architectural: CTILSS
CERAMIC TILE SM SCALE
Element Type: Pattern

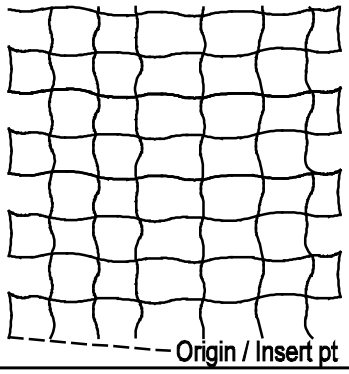
		
Architectural: CUTSTN CUT STONE PATTERN Element Type: Pattern	Architectural: EARTH COMPACTD FILL EARTHWRK Element Type: Pattern	Architectural: FIBFSF FIBROUS FIRE SAFING PT Element Type: Pattern
		
Architectural: GLASS STRUCTURAL GLASS PTN Element Type: Pattern	Architectural: GROUT GROUT Element Type: Pattern	Architectural: GRVCRE CRUSHED ROCK EARTH GRV Element Type: Pattern
		
Architectural: GRVPFE POROUSFILLGRAVLEARTHWR Element Type: Pattern	Architectural: GRVSCL SAND CLAY GRAVEL PATTE Element Type: Pattern	Architectural: GYPPPE GYPSUM PLASTERPLAN ELE Element Type: Pattern



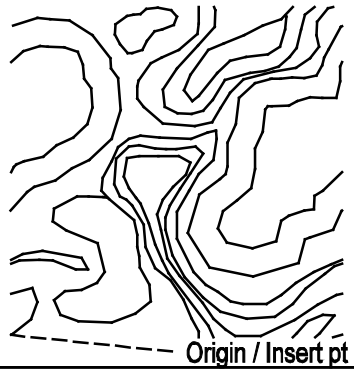
Architectural: INSQLT
LRGSCALE INSULATNQUILT
Element Type: Pattern



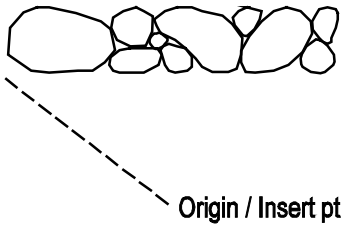
Architectural: INSRIG
RIGID INSULATION PATTE
Element Type: Pattern



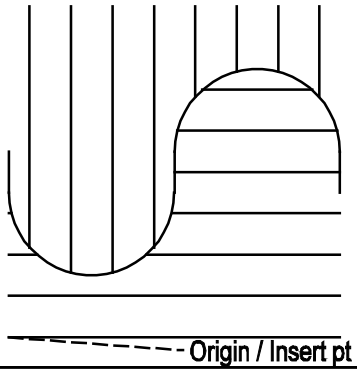
Architectural: INSSCM
SOLIDCORKMAGNESIA INSU
Element Type: Pattern



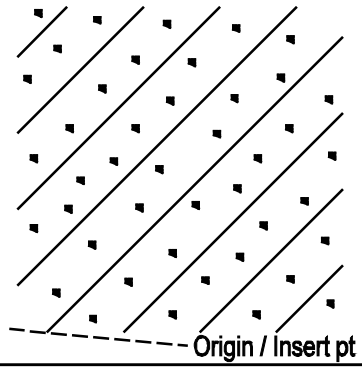
Architectural: MARBLE
MARBLE STONE PATTERN
Element Type: Pattern



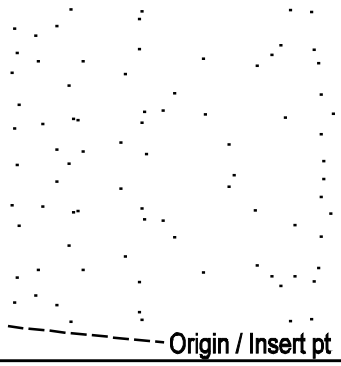
Architectural: RIPRAP
RIPRAP PATTERN
Element Type: Pattern



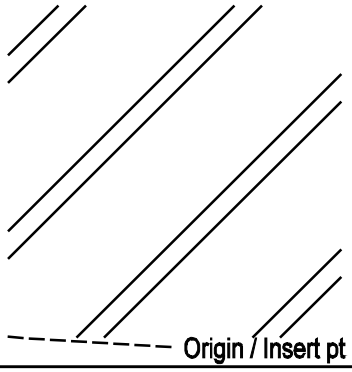
Architectural: ROCK
ROCK EARTHWORK PATTERN
Element Type: Pattern



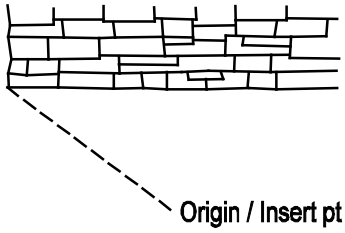
Architectural: RUBBLE
STONE RUBBLE PATTERN
Element Type: Pattern



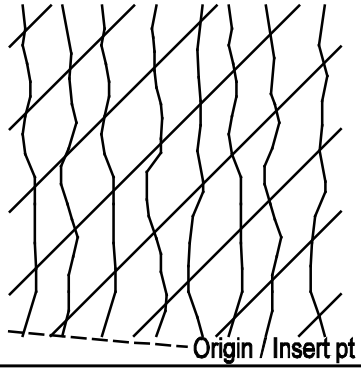
Architectural: SAND
SAND PATTERN
Element Type: Pattern



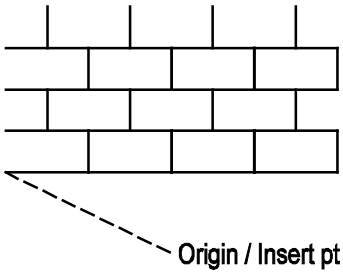
Architectural: STEEL
STEEL OTHER METALS PAT
Element Type: Pattern



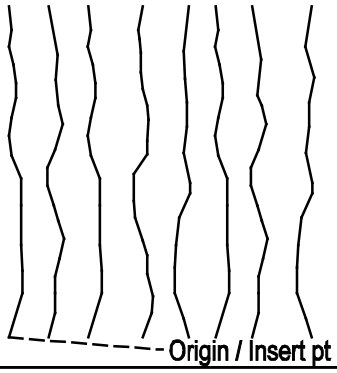
Architectural: STNSQR
SQUARED STONE PATTERN
Element Type: Pattern



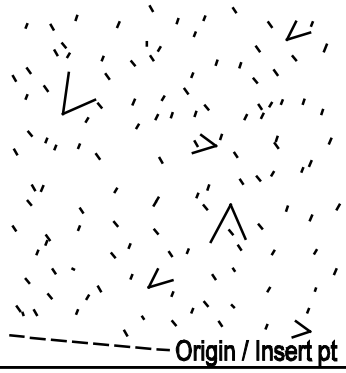
Architectural: TCBCSS
TERACOTA SMSCALE BRICK
Element Type: Pattern



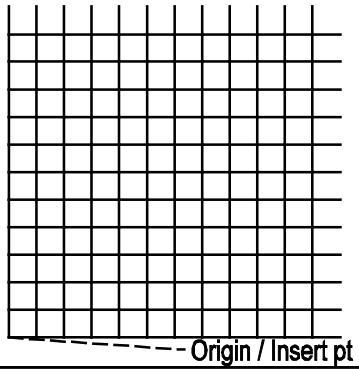
Architectural: TCELEV
TERRA COTTA ELEVATION
Element Type: Pattern



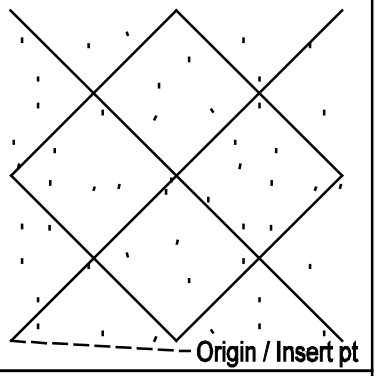
Architectural: TCUSS
TERACOTA SMSCALE UNGLZ
Element Type: Pattern



Architectural: TERRZO
TERRAZZO PATTERN
Element Type: Pattern

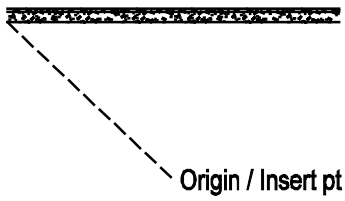
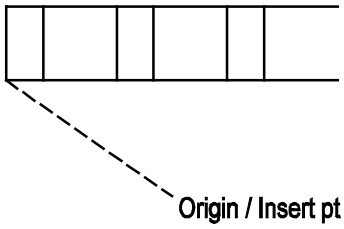
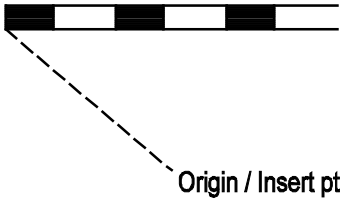
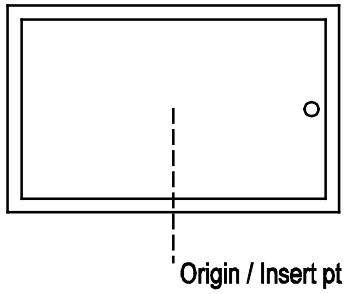
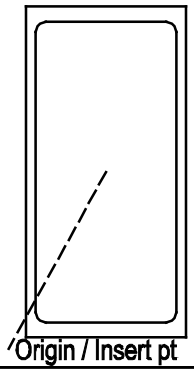
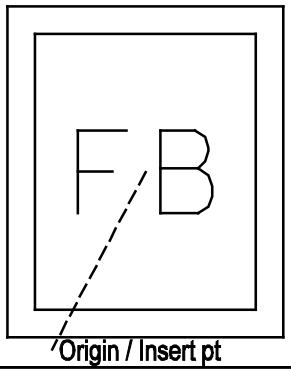
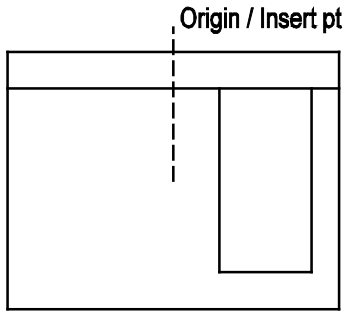
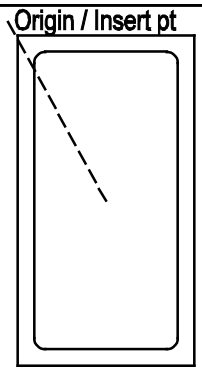
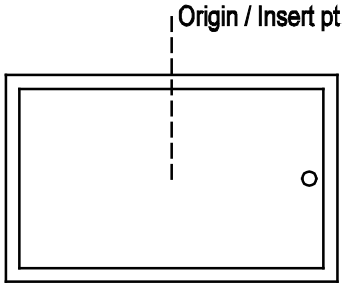


Architectural: TILCER
CERAMIC TILE ELEVATION
Element Type: Pattern



Architectural: TILESF
STRUCTURAL FACING TILE
Element Type: Pattern

9 Architectural Symbols Library

		
Architectural: ARCPBW ARCHTCTRL PARTICLEBRD Element Type: Symbol	Architectural: ASBDLS LARGE SCALE ASBESTOS B Element Type: Symbol	Architectural: ASBDSS SMALL SCALE ASBESTOS B Element Type: Symbol
		
Architectural: BATHCO CORNER BATH Element Type: Symbol	Architectural: BATHEM EMERGENCY BATH Element Type: Symbol	Architectural: BATHFT FOOT BATH Element Type: Symbol
		
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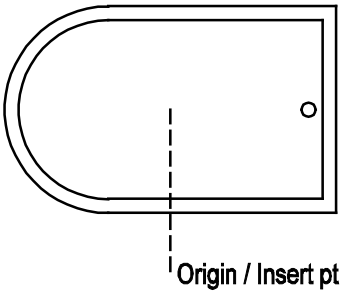
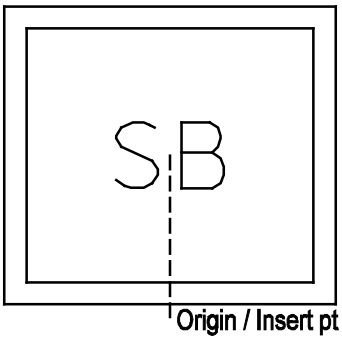
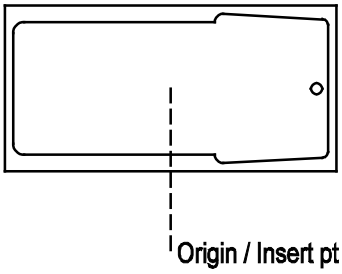
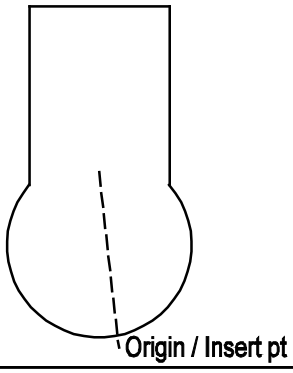
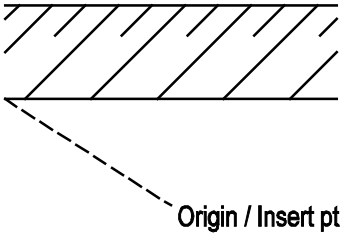
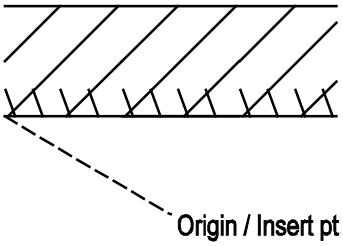
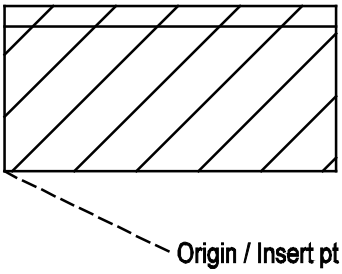
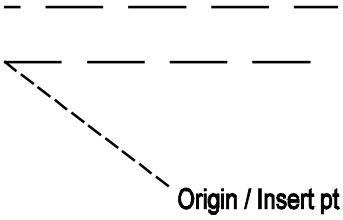
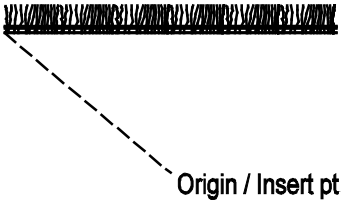
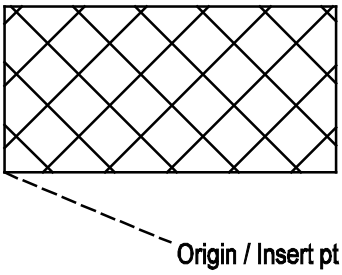
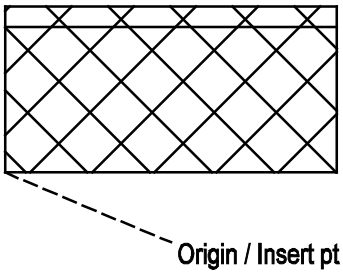
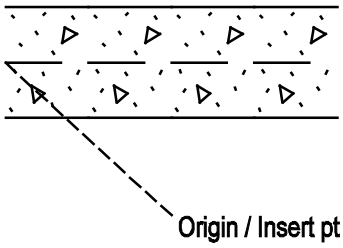
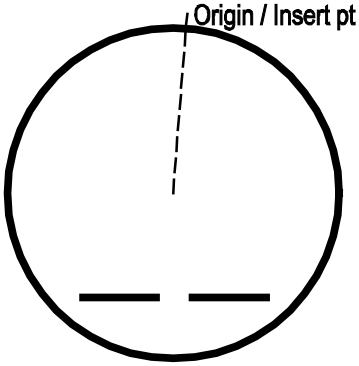
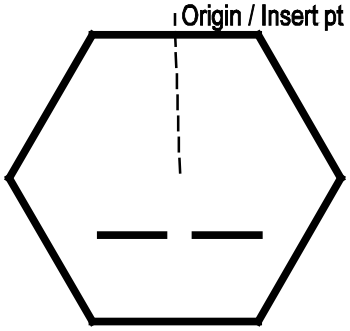
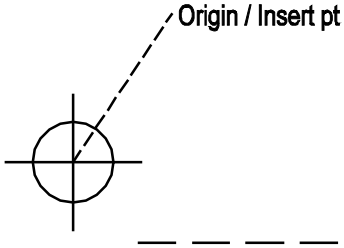
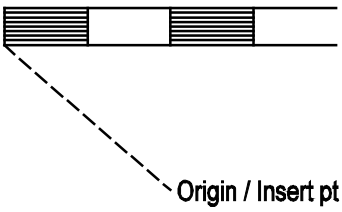
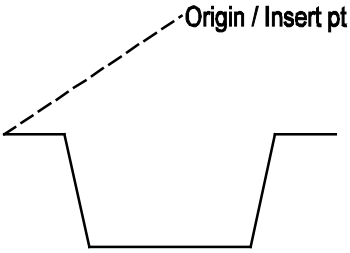
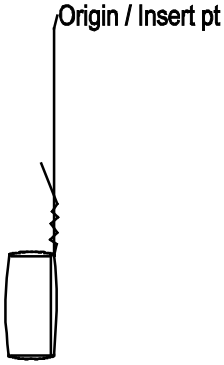
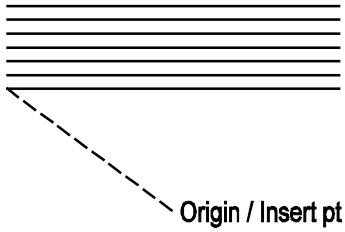
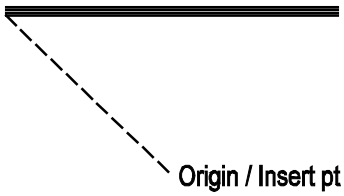
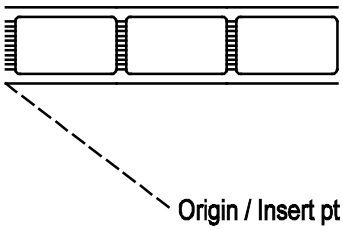
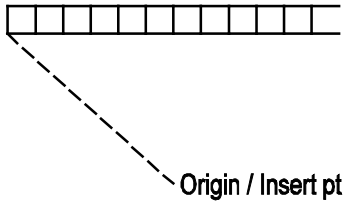
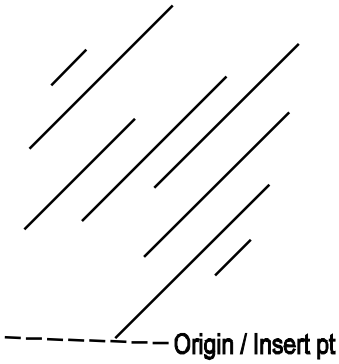
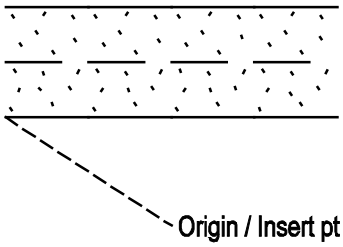
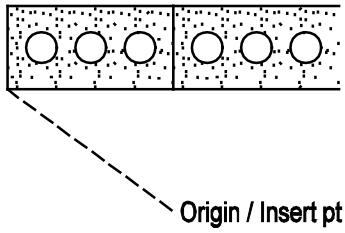
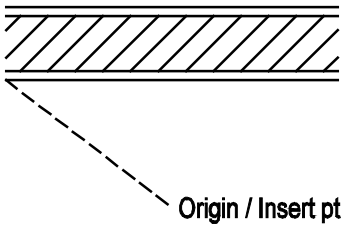
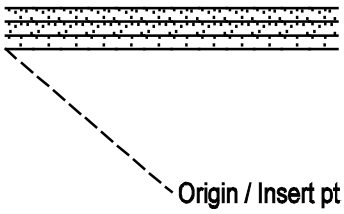
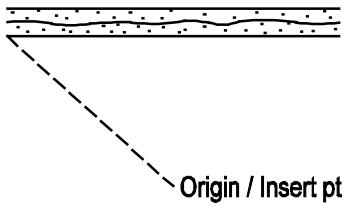
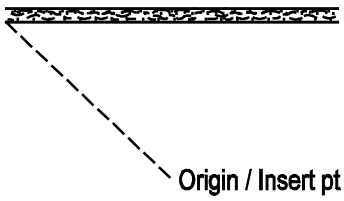
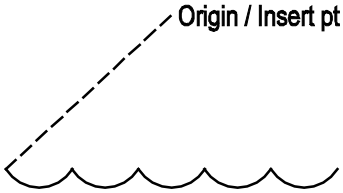
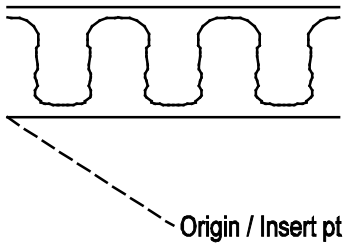
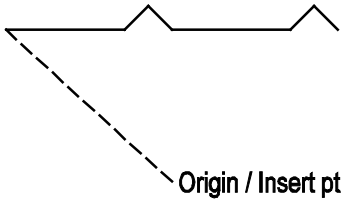
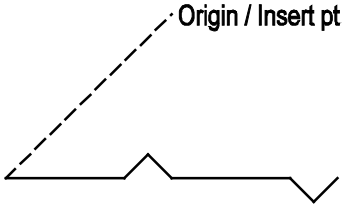
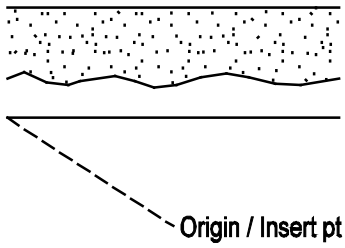
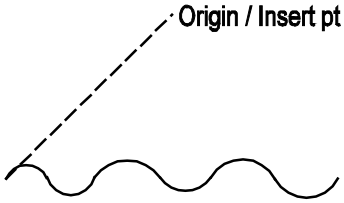
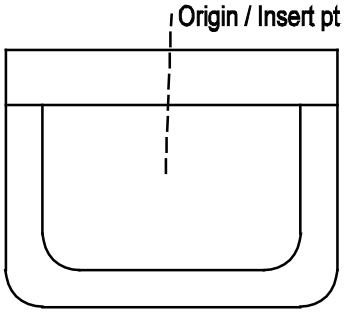
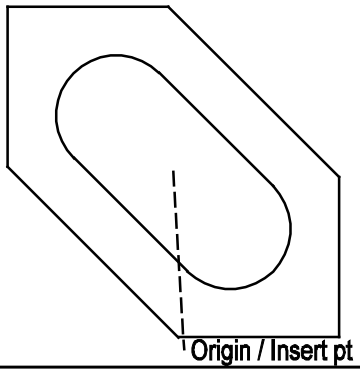
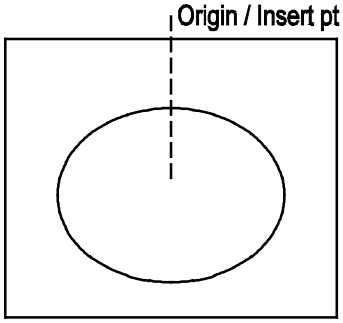
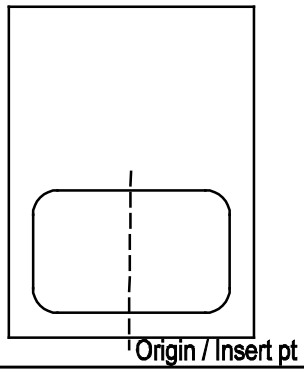
		
Architectural: BATHRR ROLL RIM BATH Element Type: Symbol	Architectural: BATHSZ SITZ BATH Element Type: Symbol	Architectural: BATHWP WHIRLPOOL BATH Element Type: Symbol
		
Architectural: BIDET WATERCLOSET BIDET Element Type: Symbol	Architectural: BRFACC BRICK FACE ON COMMON Element Type: Symbol	Architectural: BRFIRE FIRE BRICK Element Type: Symbol
		
Architectural: BRKGL GLAZED BRICK Element Type: Symbol	Architectural: BSSFLG BLUESTN SLT SOAPSTN FL Element Type: Symbol	Architectural: CARPET CARPET AND PAD Element Type: Symbol

		
Architectural: CMU MASONRY UNIT Element Type: Symbol	Architectural: CMUGL GLAZED CONCRETE BLOCK Element Type: Symbol	Architectural: CPLANK CONCRETE PLANK Element Type: Symbol
		
Architectural: DOORID DOOR OPENING IDENTIFIE Element Type: Symbol	Architectural: EQPMID EQUIPMENT IDENTIFIER Element Type: Symbol	Architectural: FASTEN FASTENER Element Type: Symbol
		
Architectural: FLRRPL FLOORINGRESILIENT PLST Element Type: Symbol	Architectural: FURCHH FURRING CHANNEL HAT Element Type: Symbol	Architectural: FURCHN FURRING CHANNEL Element Type: Symbol

		
Architectural: GLASLS LARGE SCALE GLASS Element Type: Symbol	Architectural: GLASSS SMALL SCALE GLASS Element Type: Symbol	Architectural: GLBLLS GLASS BLOCK LARGE SCAL Element Type: Symbol
		
Architectural: GLBLSS GLASS BLOCK SMALL SCAL Element Type: Symbol	Architectural: GLELEV GLASS ELEVATION Element Type: Symbol	Architectural: GPLANK GYPSUM PLANK Element Type: Symbol
		
Architectural: GYPBLK GYPSUM BLOCK Element Type: Symbol	Architectural: GYPPOM GYPSUM PLASTER ON MASO Element Type: Symbol	Architectural: GYPPPB GYPSUM PLASTER PARTICI Element Type: Symbol

		
Architectural: GYPSPP GYPSUMSOLIDPLASTERPART Element Type: Symbol	Architectural: GYPWBD GYPSUM WALLBOARD FINIS Element Type: Symbol	Architectural: INFBSS SMSCALE FLXBL BLANKET Element Type: Symbol
		
Architectural: INLFLS LRGSCALE LOOSE FILL IN Element Type: Symbol	Architectural: INS1RM INSUL REFLCTVE MTL ON Element Type: Symbol	Architectural: INS2RM INSUL RFLCTVCRTN 2SDS Element Type: Symbol
		
Architectural: INSFOM SPRAY FOAM INSULATION Element Type: Symbol	Architectural: INSTND INSUL TYPE NOT DETER L Element Type: Symbol	Architectural: LAVBCK BACK LAVATORY Element Type: Symbol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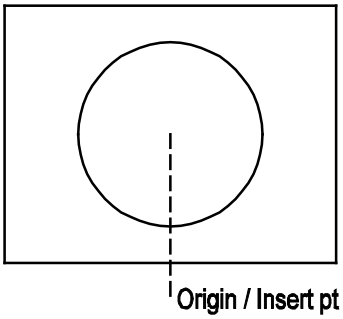	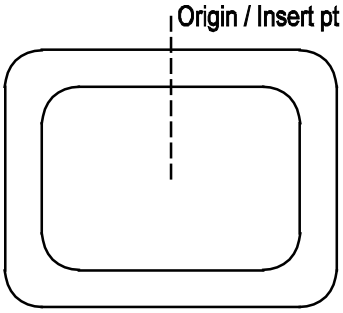	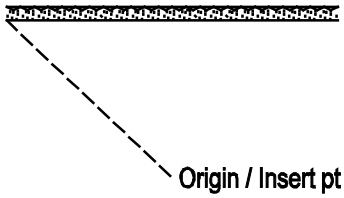
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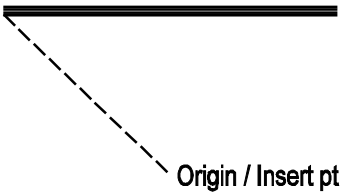	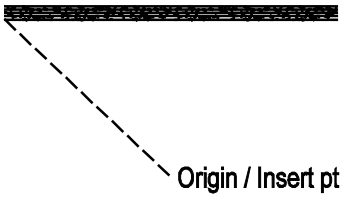	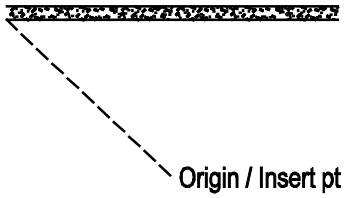
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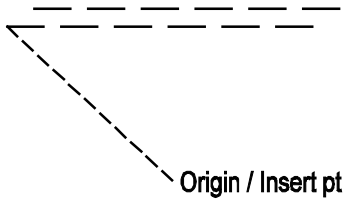	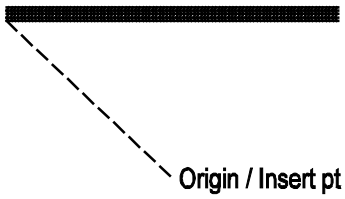	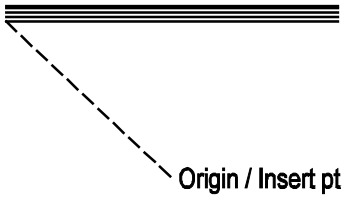
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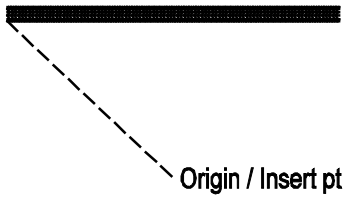
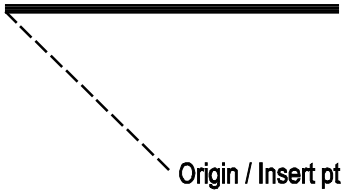
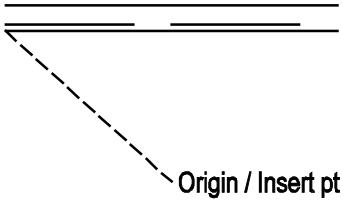
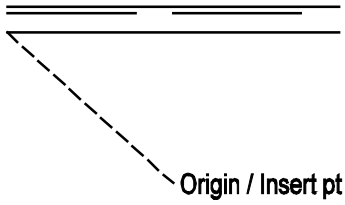
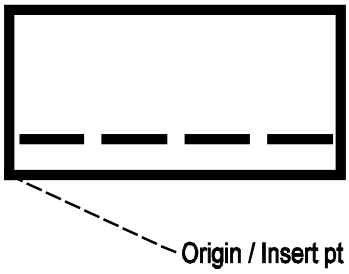
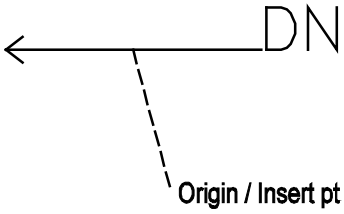
		
Architectural: PLYWLS LARGE SCALE PLYWOOD Element Type: Symbol	Architectural: PLYWSS SMALL SCALE PLYWOOD Element Type: Symbol	Architectural: RBIILS RGD BRD INTRR INSUL L Element Type: Symbol
		
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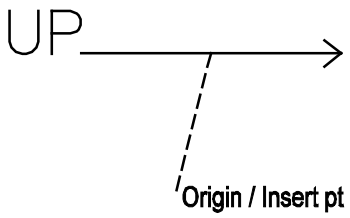	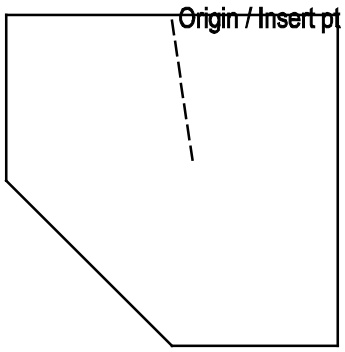	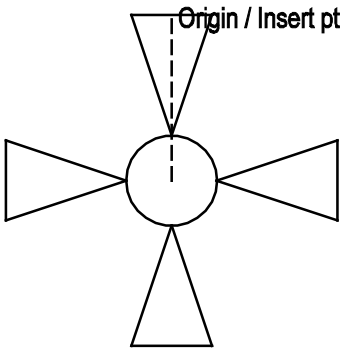
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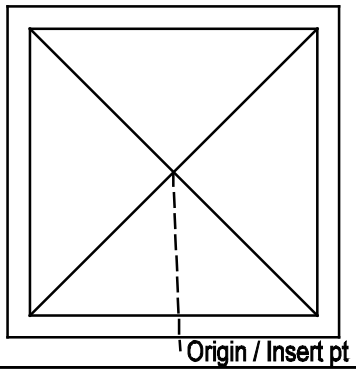	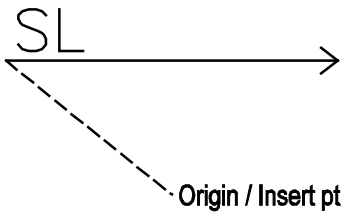	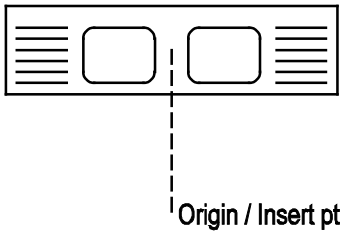
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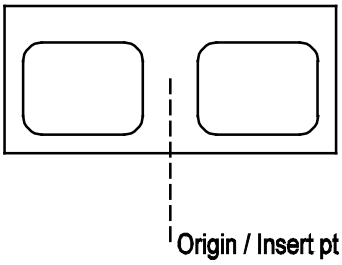	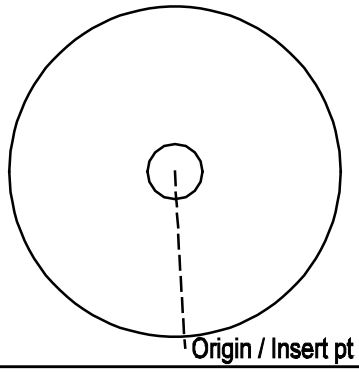	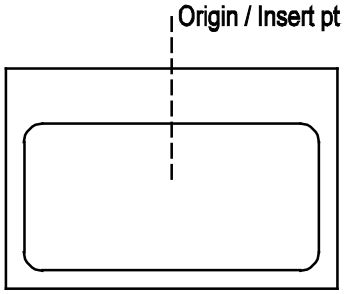
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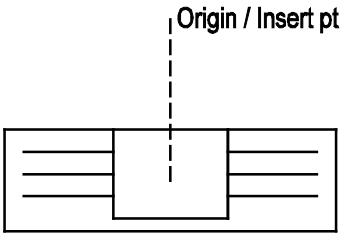	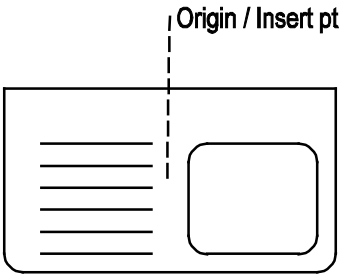	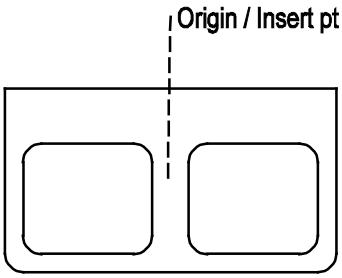
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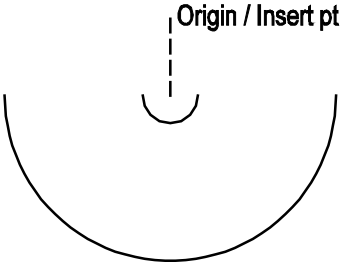	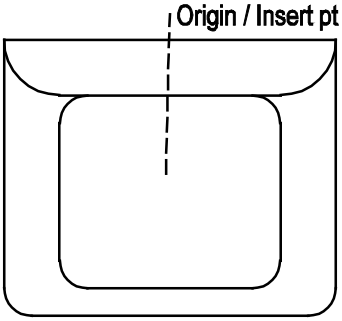	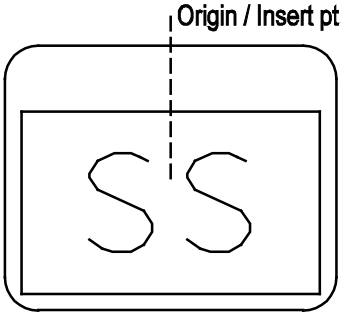
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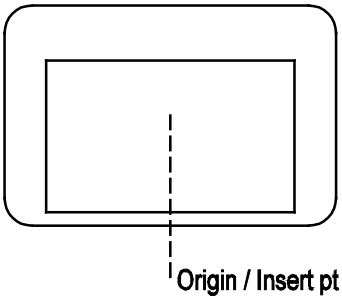
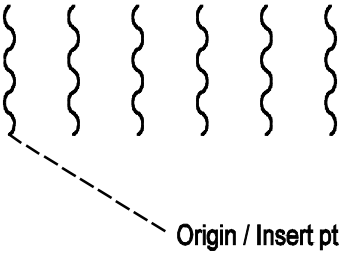
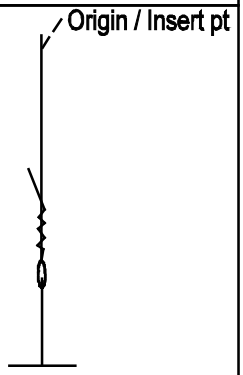
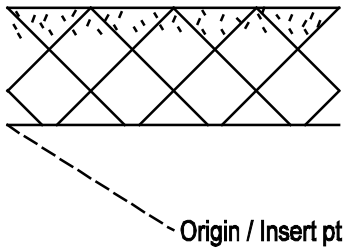
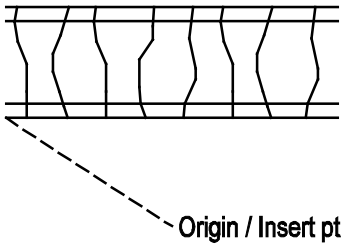
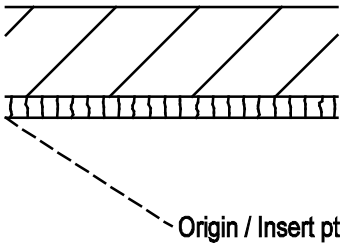
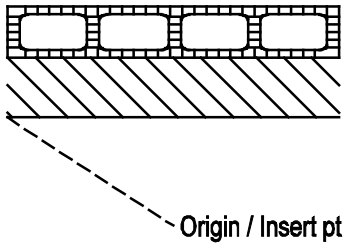
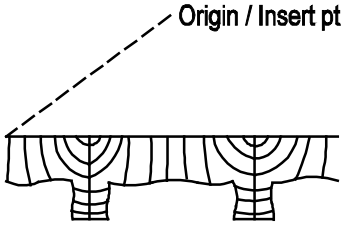
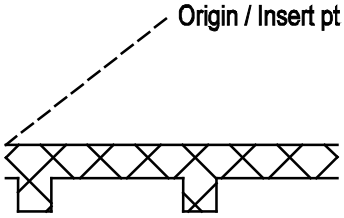
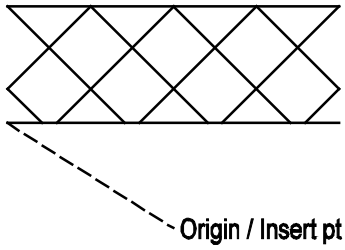
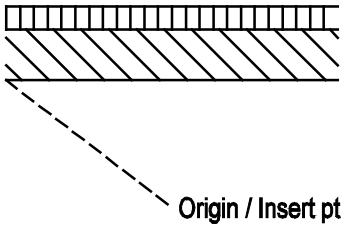
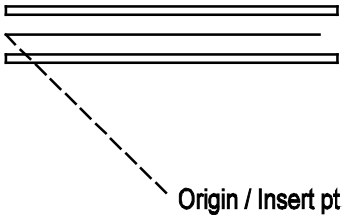
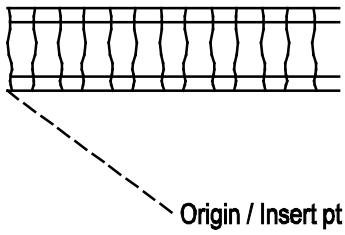
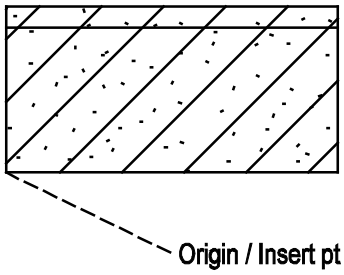
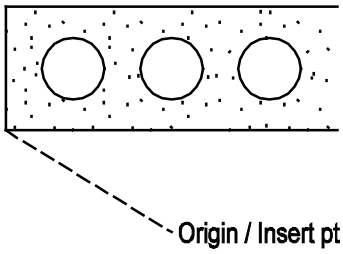
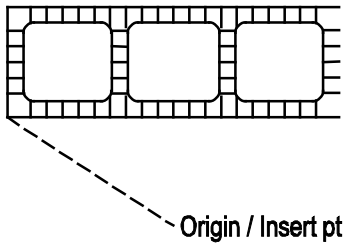
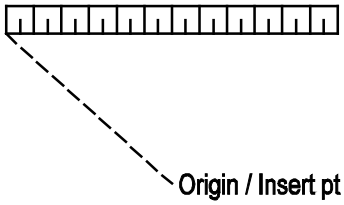
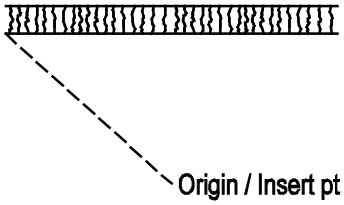
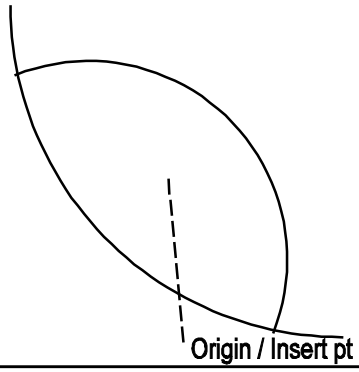
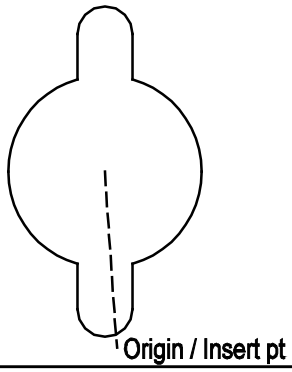
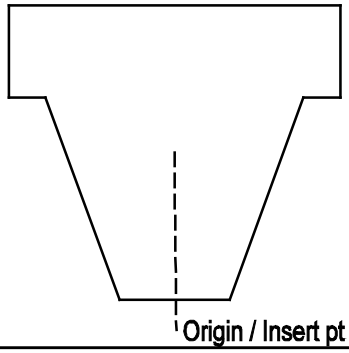
		
Architectural: SNKSSC SURGEON SCRUB SINK Element Type: Symbol	Architectural: STLCSS STRUCTURAL CLAY TILE S Element Type: Symbol	Architectural: SUSPNT SUSPENSION TEE Element Type: Symbol

		
Architectural: TC1FLS TERACOTA GLZD1FACE LRG Element Type: Symbol	Architectural: TC2FSS TERACOTA GLZD2FACES SM Element Type: Symbol	Architectural: TCCBSS TERRA COTTA ONBRK SMSC Element Type: Symbol
		
Architectural: TCHOLW HOLLOW TERRA COTTA Element Type: Symbol	Architectural: TCLS LARGE SCALE TERRA COTT Element Type: Symbol	Architectural: TCQLS TERA COTA QUARRY LRGSC Element Type: Symbol
		
Architectural: TCUGLS TERACOTA UNGLAZED LRGS Element Type: Symbol	Architectural: TCVENR VENEER TERRA COTTA Element Type: Symbol	Architectural: THRSHD THRESHOLD Element Type: Symbol

		
Architectural: TILFSS SMALL SCALE TILE FACIN Element Type: Symbol	Architectural: TILGSC GLZESTRUCTURAL CLAYTIL Element Type: Symbol	Architectural: TILGYP GYPSUM TILE Element Type: Symbol
		
Architectural: TILSFU TILE STRUCTURAL FLOOR Element Type: Symbol	Architectural: TLACOU ACOUSTICAL TILE FINISH Element Type: Symbol	Architectural: TLCRLS CERAMICTILE FINISH LRG Element Type: Symbol
		
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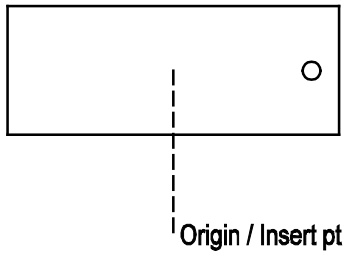	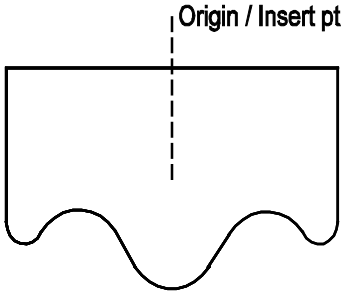	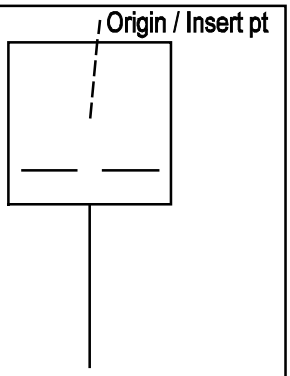
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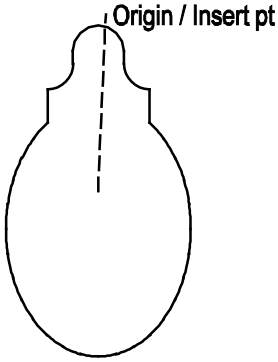	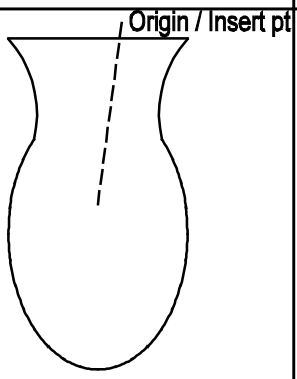	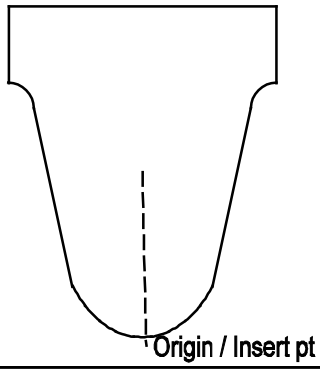
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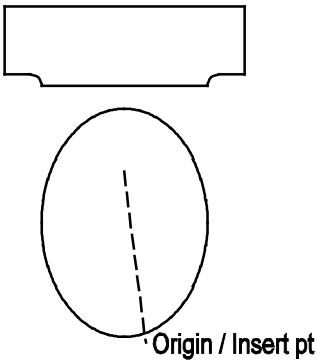	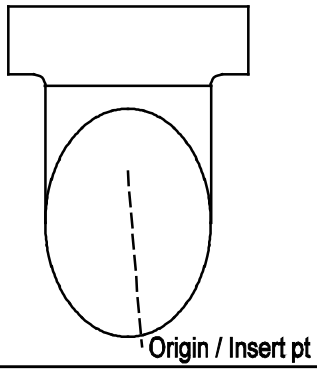	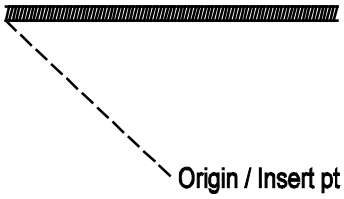
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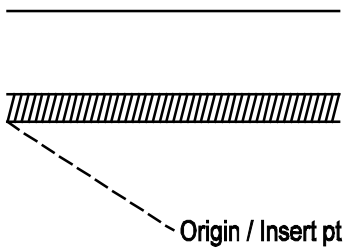
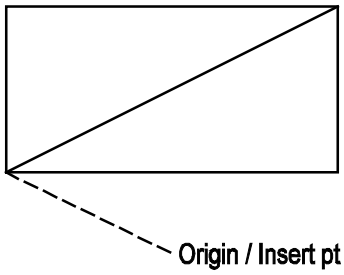
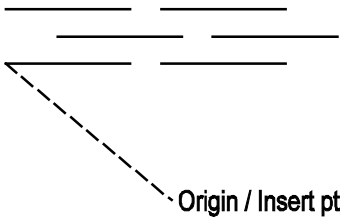


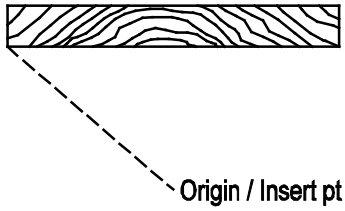
Architectural: WDFNOS
WOOD FINISH ON STUDS
Element Type: Symbol



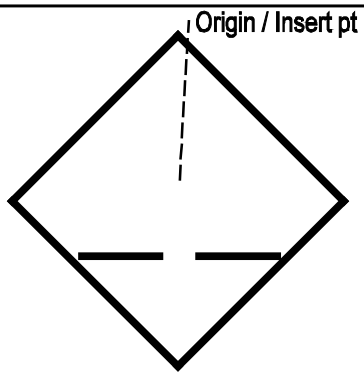
Architectural: WDFRAM
CONTINUOUS WOOD FRAMIN
Element Type: Symbol



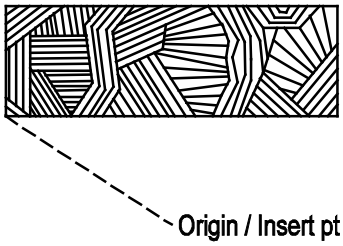
Architectural: WDSHSD
WOOD SHINGLES SIDING
Element Type: Symbol



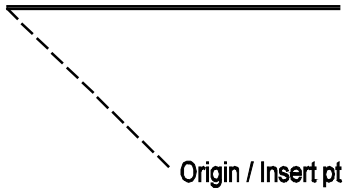
Architectural: WFINSH
WOOD FINISH
Element Type: Symbol



Architectural: WINID
WINDOW IDENTIFIER
Element Type: Symbol

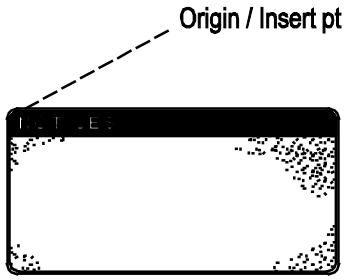
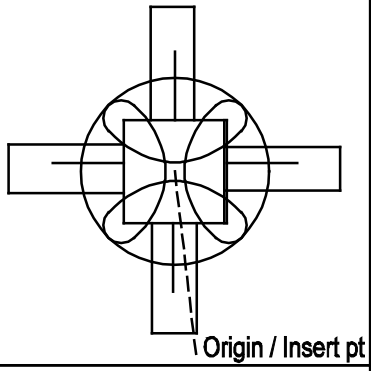
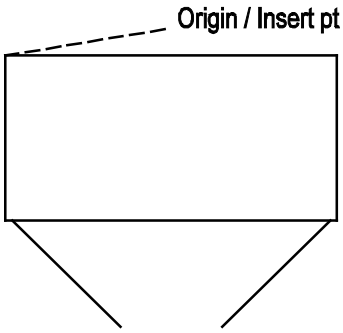
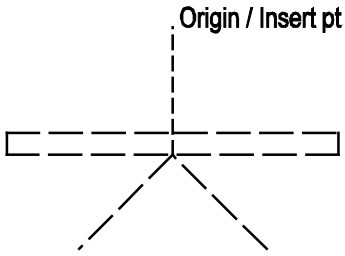
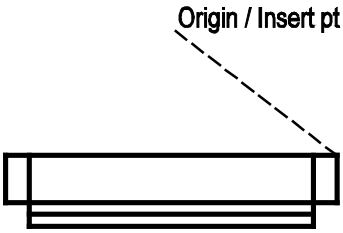
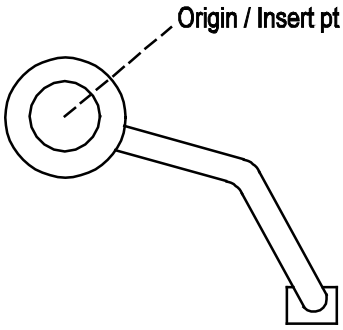
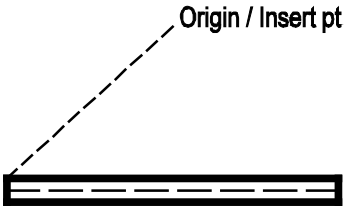
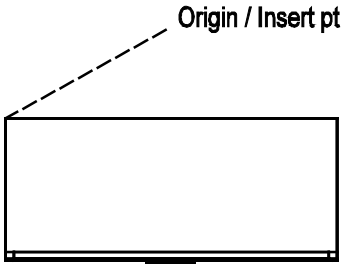
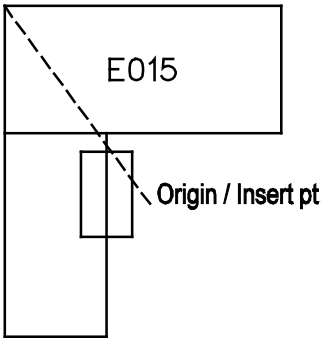


Architectural: WOODHB
HARDBOARD WOOD
Element Type: Symbol



Architectural: WTRPFF
WATERPROOFING FELT FLA
Element Type: Symbol

10 Interior Design Objects Library

		
Interior Design: ABLLBD BULLETIN BOARD Element Type: Object	Interior Design: ACOSTM COSTUMER Element Type: Object	Interior Design: ADDCAB DOUBLE DOOR CABINET Element Type: Object
		
Interior Design: AEAS30 EASEL 30W HIDDEN Element Type: Object	Interior Design: AMAG15 MAGAZINE RACK 15W X 3D Element Type: Object	Interior Design: AMAGLT MAGNIFYING LIGHT Element Type: Object
		
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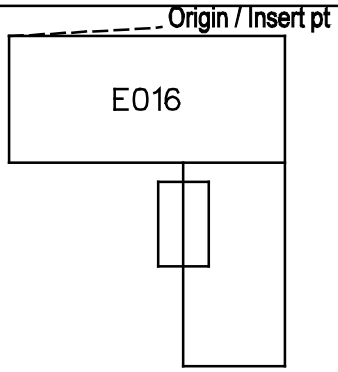	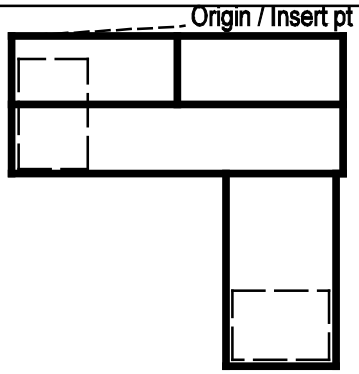	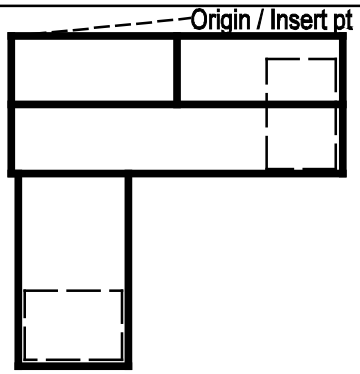
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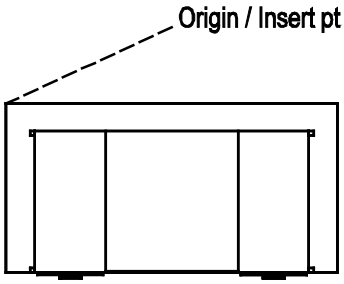	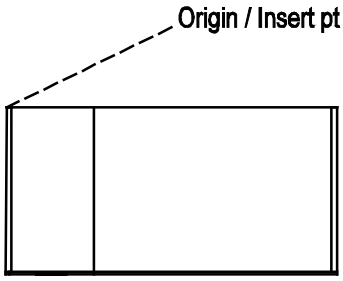	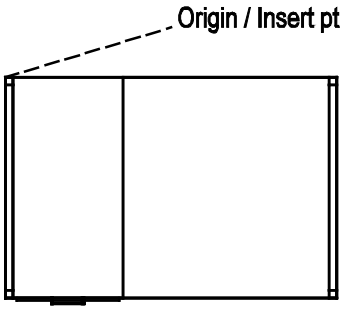
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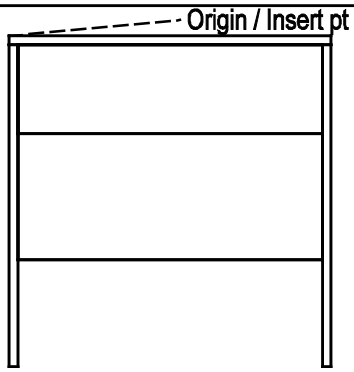	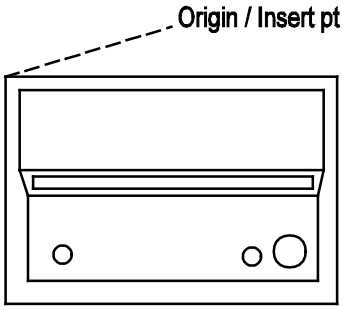	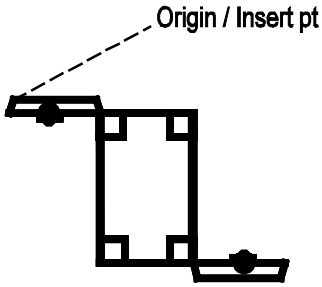
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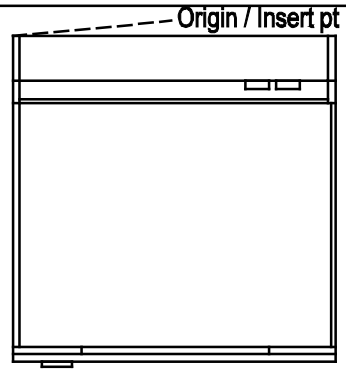	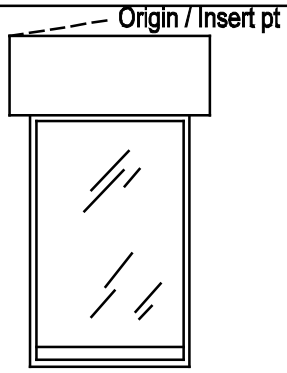	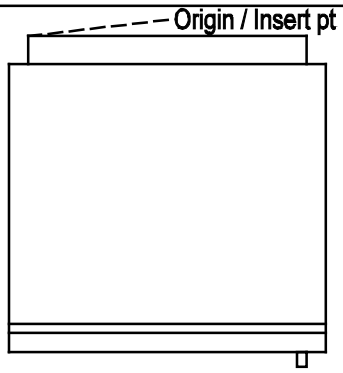
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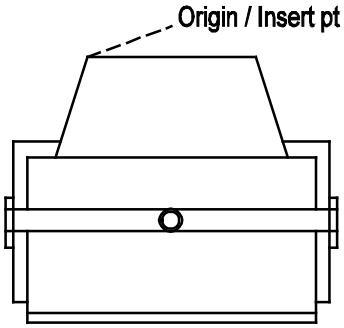	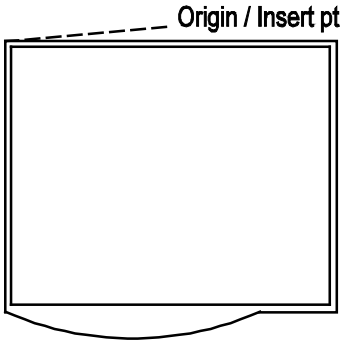	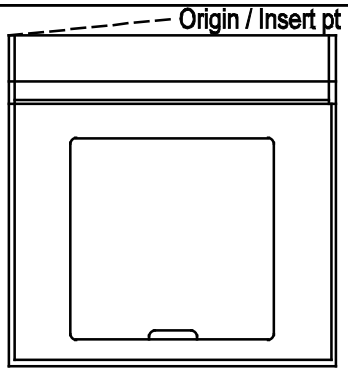
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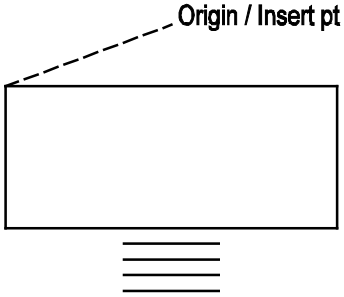	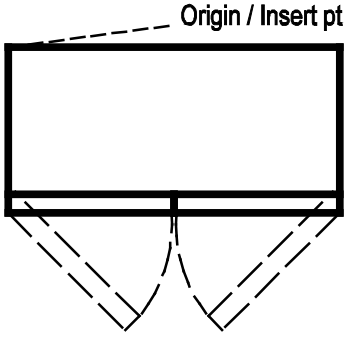	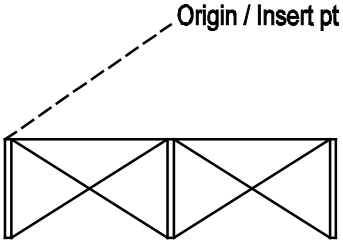
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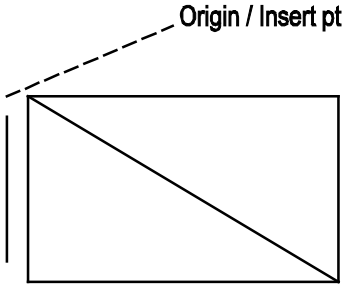	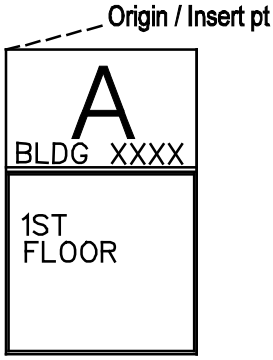	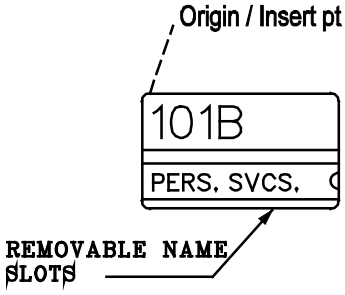
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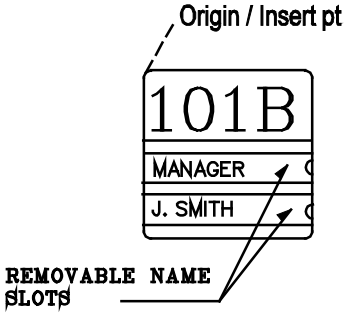
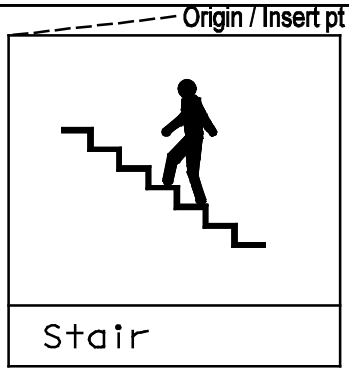
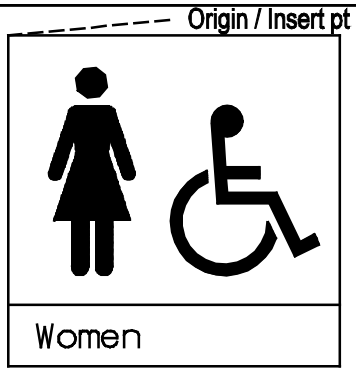
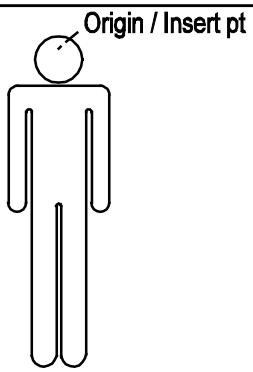
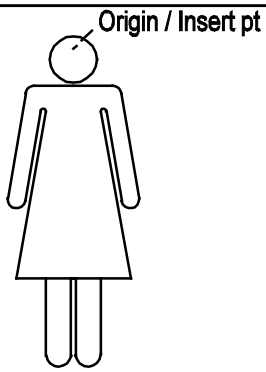
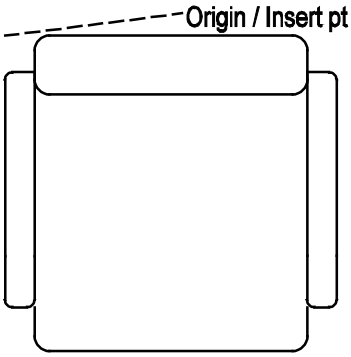
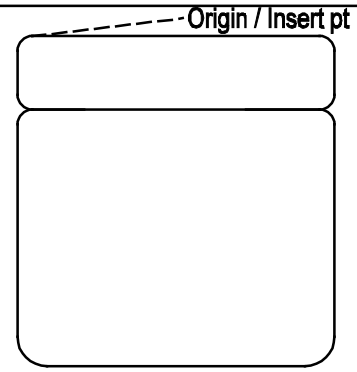
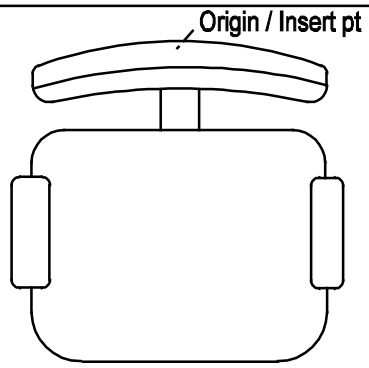
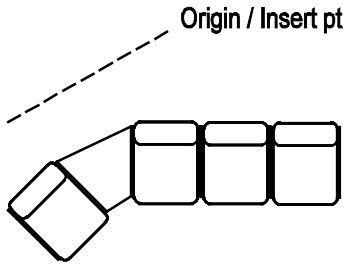
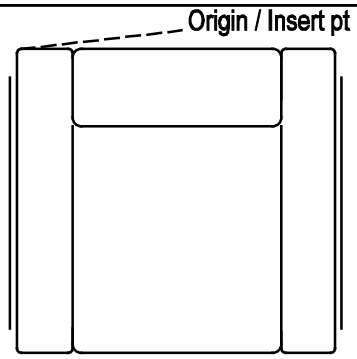
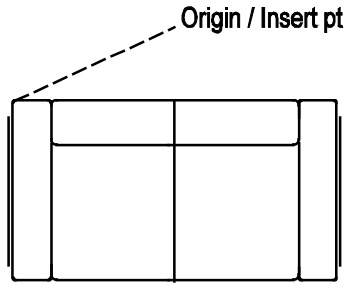
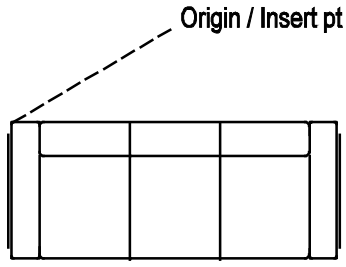
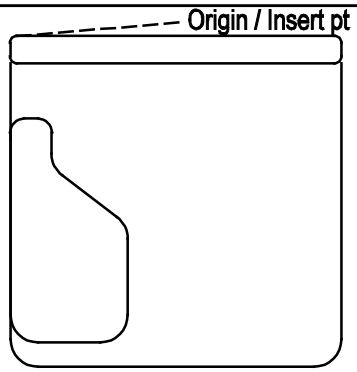
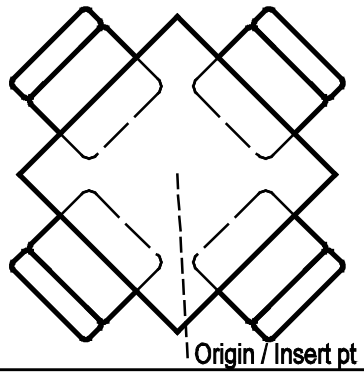
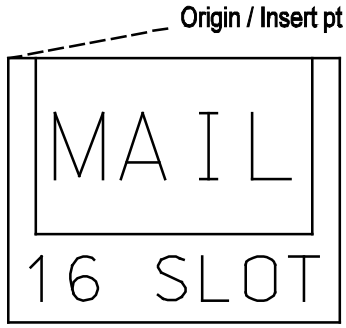
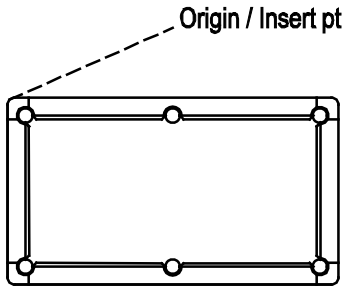
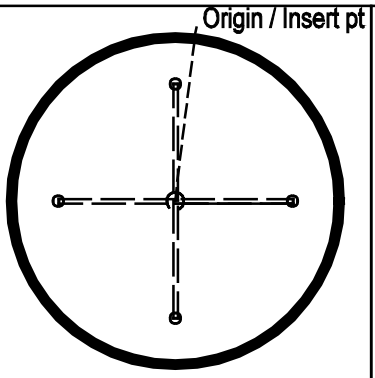
		
Interior Design: GIIS2 IDENT SIGN WITH 2 SLOT Element Type: Object	Interior Design: GIPIC1 PICTOGRAM1 Element Type: Object	Interior Design: GIPIC2 PICTOGRAM 2 Element Type: Object
		
Interior Design: GMAN MAN SYM FR RESTROOM SI Element Type: Object	Interior Design: GWOMAN WOMAN SYMFOR RESTRM SG Element Type: Object	Interior Design: SDMGT MGMNT CHAIR W ARMS 24W Element Type: Object

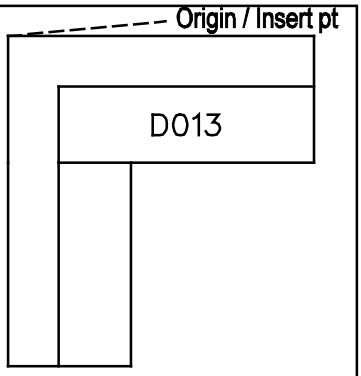
		
Interior Design: SDSEC SECRTRL CHR NO ARMS 23 Element Type: Object	Interior Design: SDTASK TASK CHAIR Element Type: Object	Interior Design: SGANG GANG SEATING W TABLE Element Type: Object
		
Interior Design: SSOF37 SOFA CHAIR 37W X 34D Element Type: Object	Interior Design: SSOF63 2 CUSHION SOFA 63W X 3 Element Type: Object	Interior Design: SSOF82 3 CUSHION SOFA 82.5W X Element Type: Object
		
Interior Design: STAB24 CHAIR TABLET ARM 24W X Element Type: Object	Interior Design: T42SQ TABLE 42SQ W ARMLESS C Element Type: Object	Interior Design: TMS30 MAILSORT TBLE 16OH SLO Element Type: Object



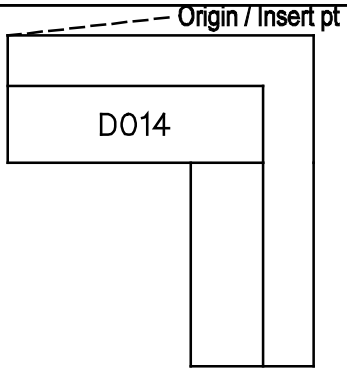
Interior Design: TPOOL
POOL TABLE
Element Type: Object



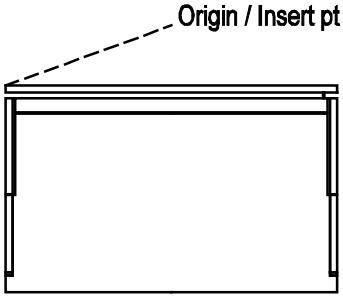
Interior Design: TROUND
ROUND TABLE
Element Type: Object



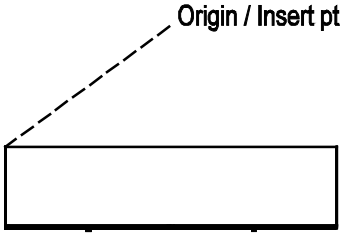
Interior Design: W7230L
WORKSTATION L UNIT LR
Element Type: Object



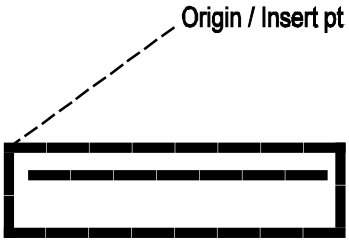
Interior Design: W7230R
WORKSTATION L UNIT RR
Element Type: Object



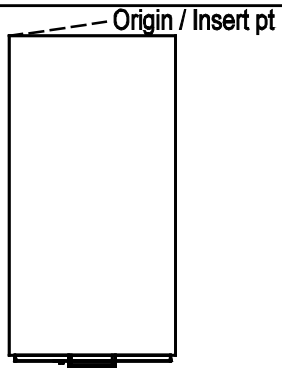
Interior Design: WCPDSK
DESK COMPUTER
Element Type: Object



Interior Design: WFLIPR
FLIPPER DOOR UNIT
Element Type: Object

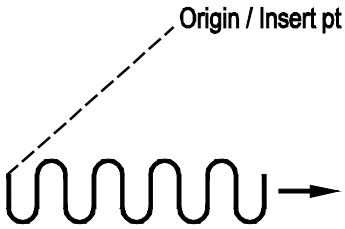


Interior Design: WLIGHT
WORKSTATION LIGHT
Element Type: Object

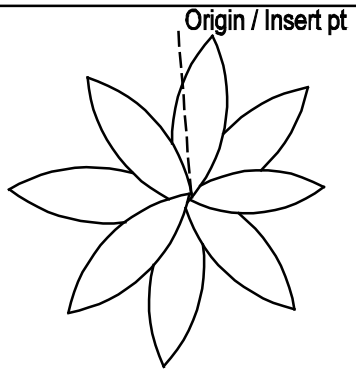


Interior Design: WPED
WORKSTATION PEDESTAL
Element Type: Object

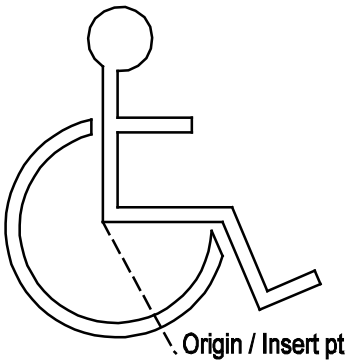
10 Interior Design Symbols Library



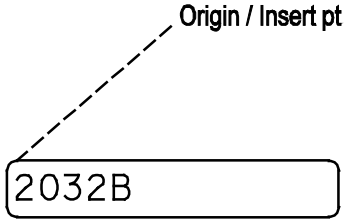
Interior Design: ACURTN
CURTAIN
Element Type: Symbol



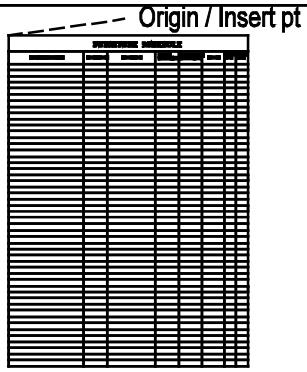
Interior Design: APLANT
ARTIFICIAL PLANT
Element Type: Symbol



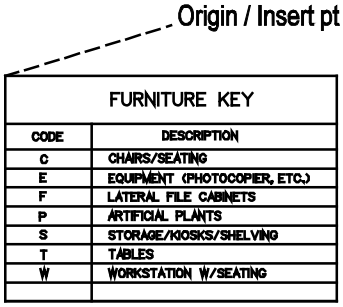
Interior Design: GHNDCP
UNIVERSAL HANDICAP SYM
Element Type: Symbol



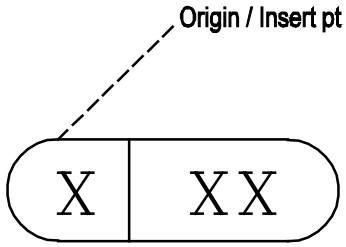
Interior Design: GIID
IDENTIFICATION SIGN
Element Type: Symbol



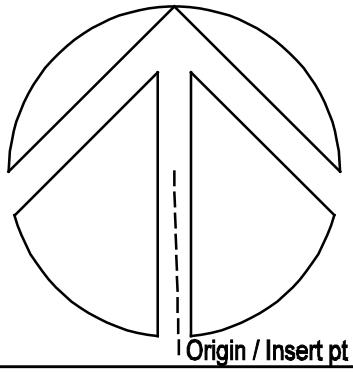
Interior Design: MFMATL
FURNITURE MATERIAL LIS
Element Type: Symbol



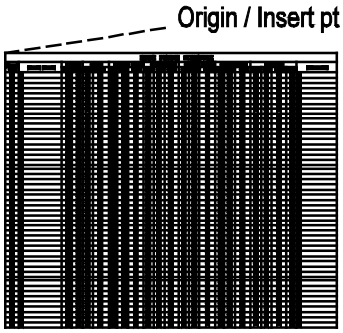
Interior Design: MFSCHD
FURNITURE SCHEDULE
Element Type: Symbol



Interior Design: MFSYMB
FURNITURE SYMBOL
Element Type: Symbol



Interior Design: MNORTH
NORTH ARROW
Element Type: Symbol



Interior Design: MRSCHD
ROOM FINISH SCHEDULE
Element Type: Symbol

Origin / Insert pt

LEGEND	
TYPE	DESCRIPTION
A	DIRECTIONALS
B1	IDENTIFICATION
B2	ROOM OCCUPANT SIGN
B3	IDENTIFICATION - SERVICE
C	SERVICE PICTOGRAMS
D	EXTERIOR - ENTRANCE
E	EXTERIOR - EXIT

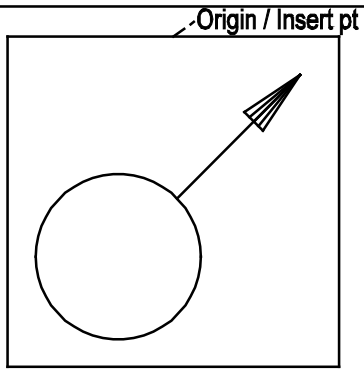
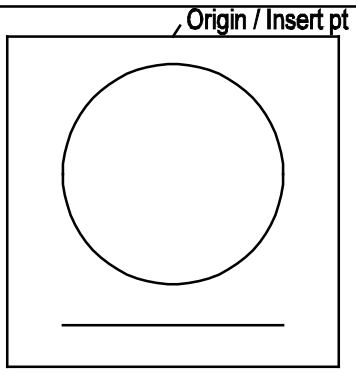
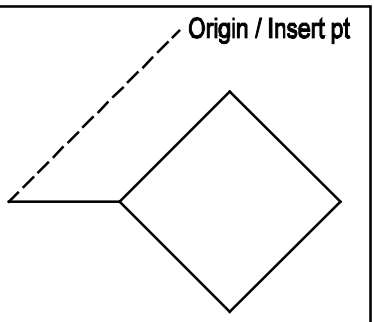
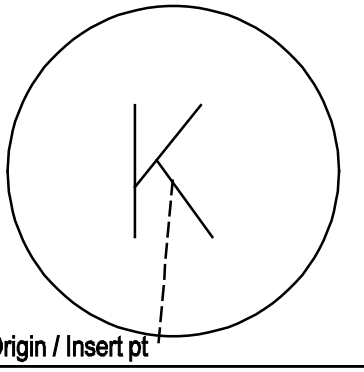
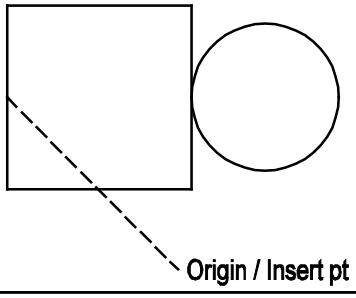
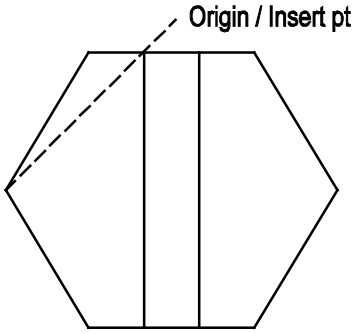
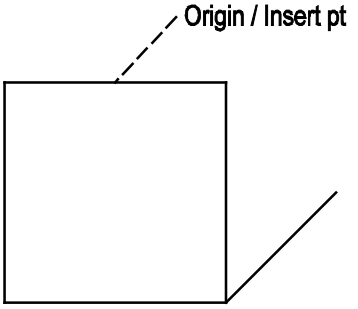
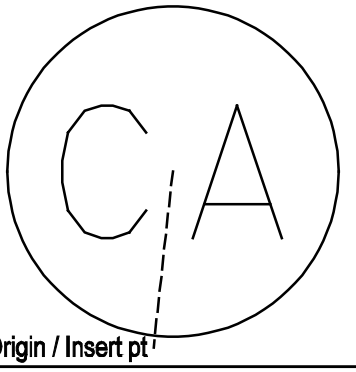
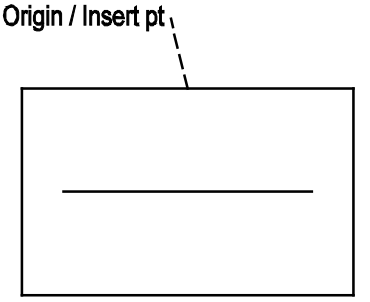
SEE SPECIFICATION 10430
AND 10440

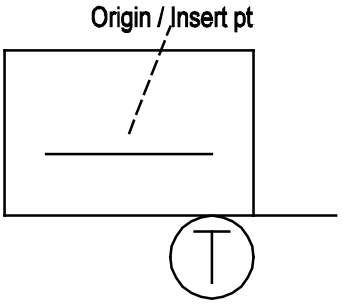
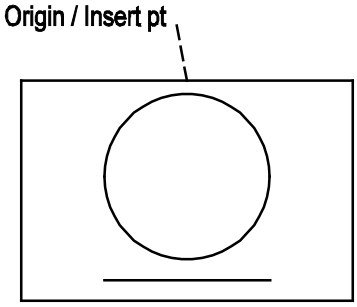
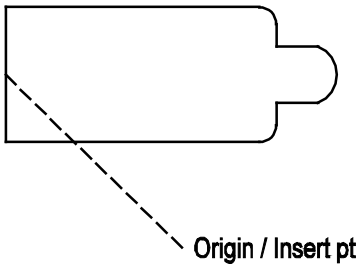
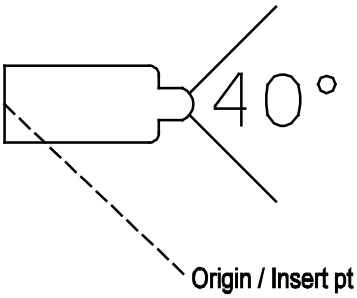
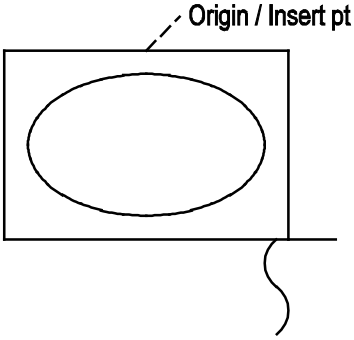
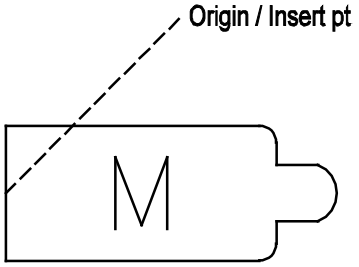
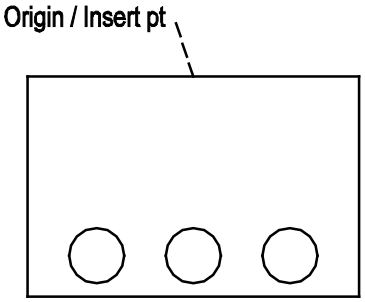
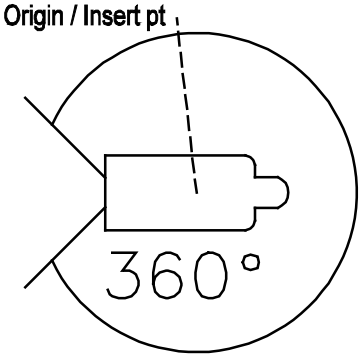
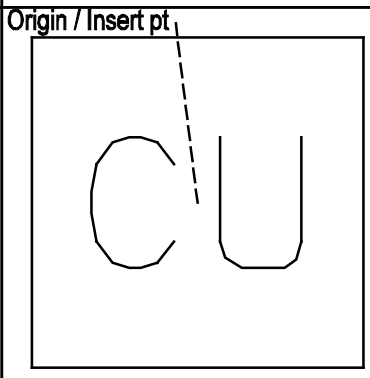
Interior Design: MSSCHD
SIGNAGE SCHEDULE
Element Type: Symbol

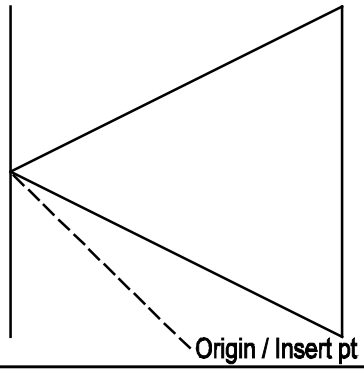
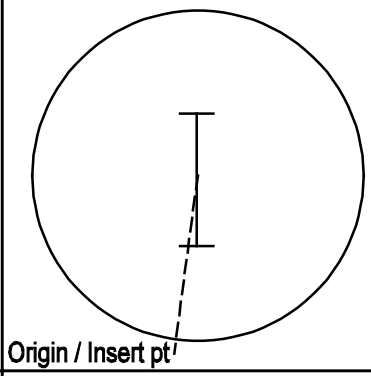
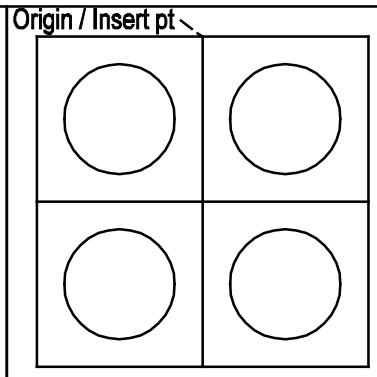
11 Equipment - Security Lines Library

		S
Equipment Security: BARDIT DITCH BARRIER Element Type: Line	Equipment Security: BARDTB DITCH AND BERM BARRIER Element Type: Line	Equipment Security: BARGEN GENERIC SECURITY BARRI Element Type: Line
M		
Equipment Security: BARMAS SECURITY MASONRY BARRI Element Type: Line	Equipment Security: CFENCE CHAIN LINK SECURITY FE Element Type: Line	Equipment Security: ECABLE ELEC CABLE AREA OF COV Element Type: Line

11 Equipment - Security Symbols Library

		
Equipment Security: ACCBIO BIOMETRIC ACCESS CONTR Element Type: Symbol	Equipment Security: ACCCTV ACCESS CONTROL UNIT W Element Type: Symbol	Equipment Security: ANNGEN GENERIC ANNUNCIATION D Element Type: Symbol
		
Equipment Security: ANNUNT LOCAL CNTRL ANNUNCIATI Element Type: Symbol	Equipment Security: BELL BELL Element Type: Symbol	Equipment Security: BISPKR BIDIRECTIONAL SPEAKER Element Type: Symbol
		
Equipment Security: BUZZER BUZZER Element Type: Symbol	Equipment Security: CACCPT CONTROLLED ACCESS POIN Element Type: Symbol	Equipment Security: CARDST GENERIC SLOT TYP CARD Element Type: Symbol

		
Equipment Security: CARDTP CARD READER WITH TOUCH Element Type: Symbol	Equipment Security: CARDTV CCTV AND CARD READER Element Type: Symbol	Equipment Security: CCTV CLOSED CIRCUIT TV CAME Element Type: Symbol
		
Equipment Security: CCTVAV CCTV ANGLE OF VIEW Element Type: Symbol	Equipment Security: CCTVDV CCTV MONITOR DESK UNIT Element Type: Symbol	Equipment Security: CCTVMD MOTION DETECTION CCTV Element Type: Symbol
		
Equipment Security: CCTVPM CCTV SWITCHER PASSIVE Element Type: Symbol	Equipment Security: CCTVTA PANNNG CAMERA TRANSVER Element Type: Symbol	Equipment Security: CTRUNT CONTROL UNIT Element Type: Symbol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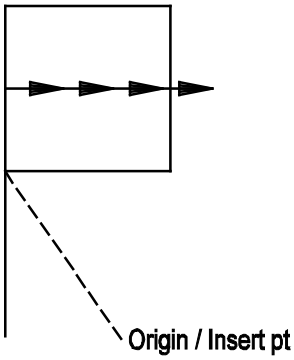
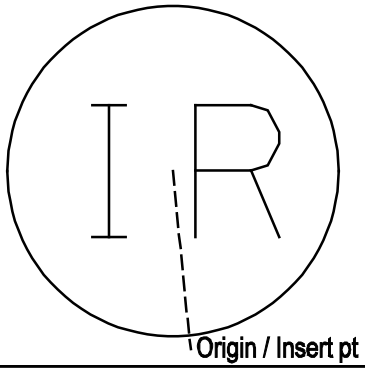
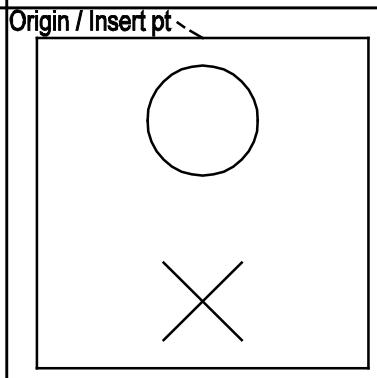
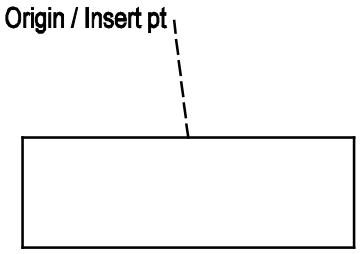
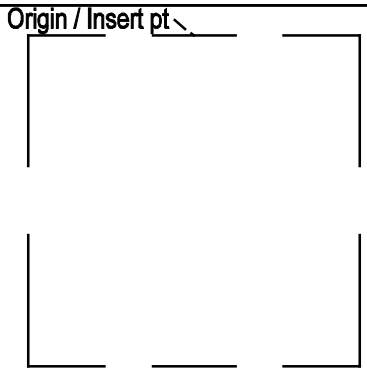
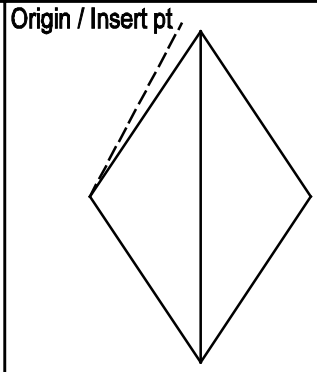
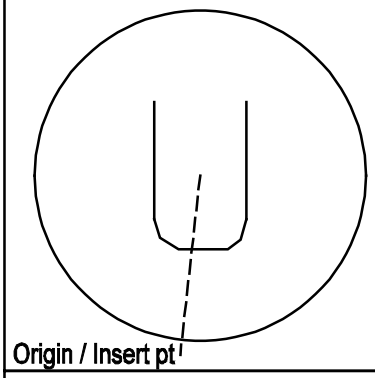
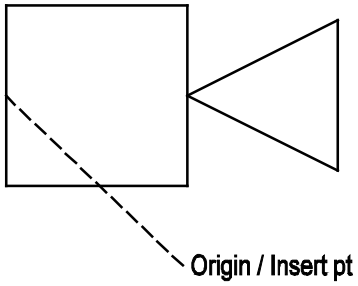
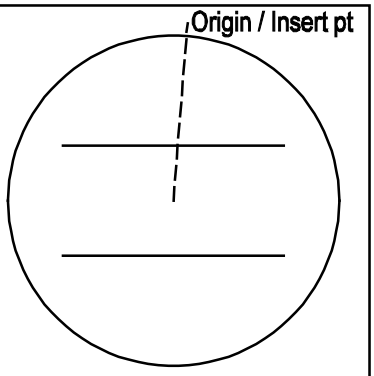
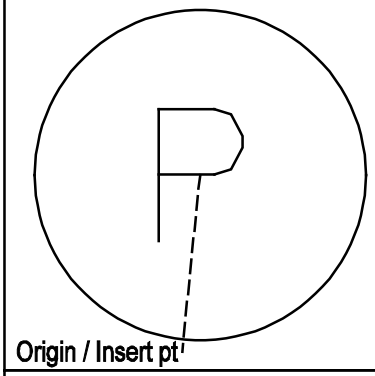
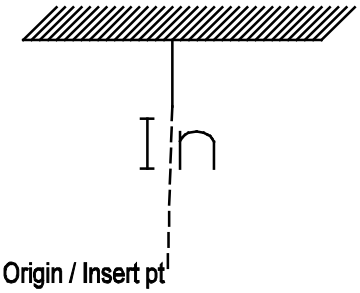
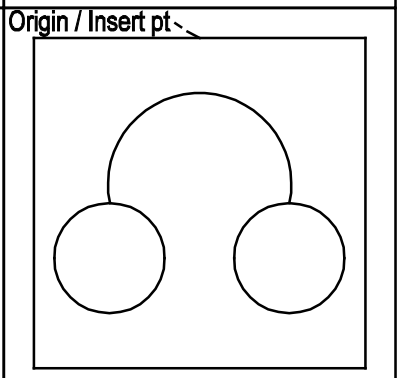
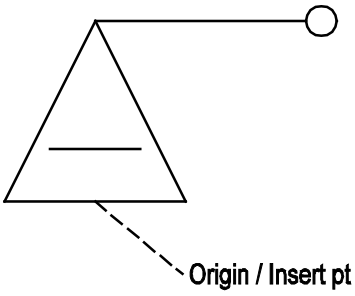
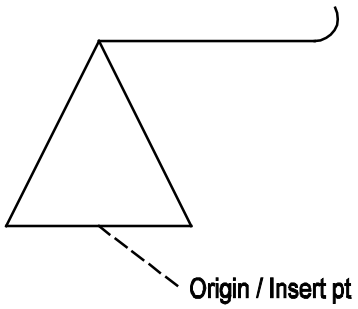
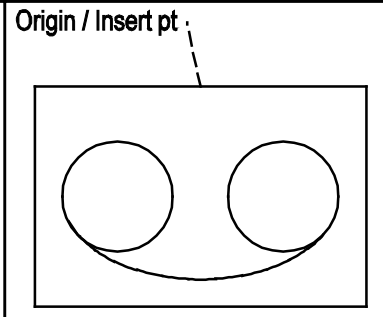
		
Equipment Security: MICROW OUTDOOR MICROWAVE XMIT Element Type: Symbol	Equipment Security: MOTDPI PSSVE INFRARED MOTION Element Type: Symbol	Equipment Security: PANALM PANIC ALARM Element Type: Symbol
		
Equipment Security: PANEL SURF MOUNTED PANELBRD Element Type: Symbol	Equipment Security: SENBV BURIED VEHICULAR SENSO Element Type: Symbol	Equipment Security: SENGV GENERIC VOLUMETRIC SEN Element Type: Symbol

		
Equipment Security: SENULS ULTRASONIC SENSOR Element Type: Symbol	Equipment Security: SIREN HORN OR SIREN Element Type: Symbol	Equipment Security: SWIBM BALANCED MAGNETIC SWIT Element Type: Symbol
		
Equipment Security: SWIDUR DURESS SWITCH Element Type: Symbol	Equipment Security: TIRETR TIRE TREDDLE Element Type: Symbol	Equipment Security: TPHONE TELEPHONE HANDSET Element Type: Symbol
		
Equipment Security: TRACR TRAFFIC ARM WTH CARD R Element Type: Symbol	Equipment Security: TRAMS TRAFFIC ARM MECHANCL S Element Type: Symbol	Equipment Security: VIDREC VIDEO TAPE RECORDER Element Type: Symbol

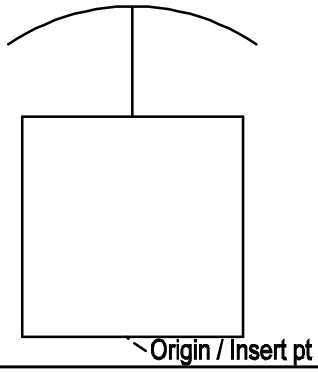
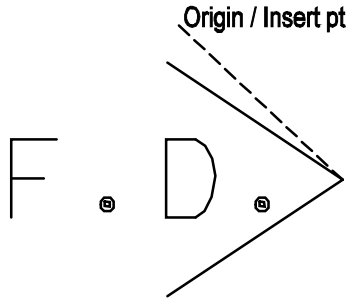
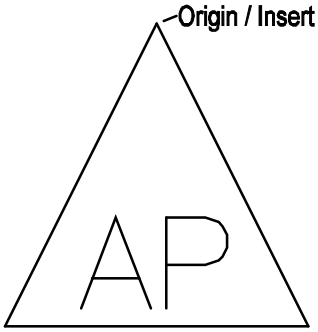
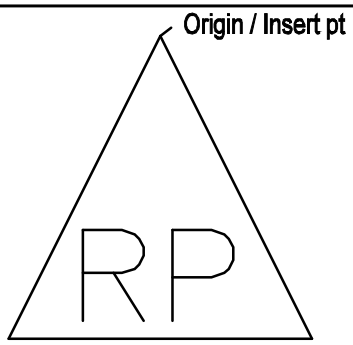
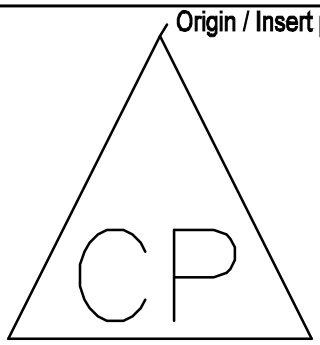
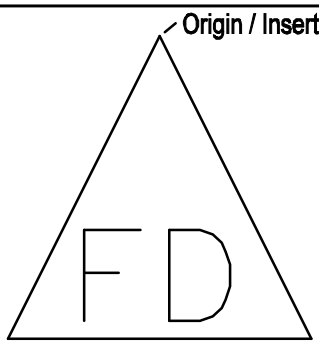
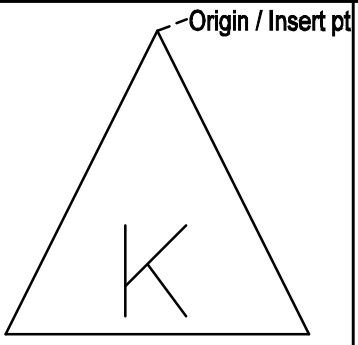
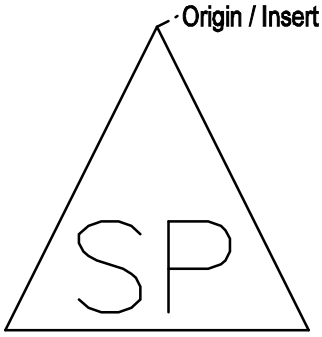
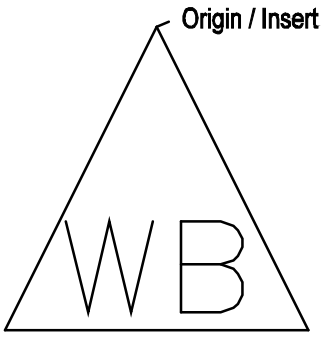
12 Fire Suppression Lines Library

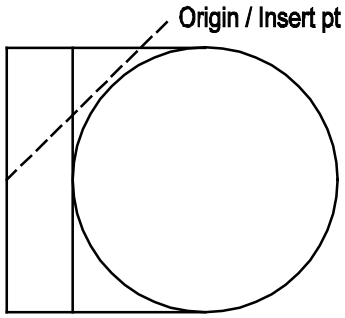
	W	
Fire Suppression: MANPRV PRIVATE WATER MAIN Element Type: Line	Fire Suppression: MANPUB PUBLIC WATER MAIN Element Type: Line	Fire Suppression: MANSUC SUCTION MAIN Element Type: Line
W	PN	
Fire Suppression: MANUND WATER MAIN UNDER BLDG Element Type: Line	Fire Suppression: PNTUBE PNEUMATIC TUBE RUNS Element Type: Line	Fire Suppression: SMKBAR SMOKE BARRIER Element Type: Line
S	CSP	DSP
Fire Suppression: SPRINK MAIN SUPPLY SPRINKLER Element Type: Line	Fire Suppression: STDCOM STANDPIPE COMBINATION Element Type: Line	Fire Suppression: STDDRY DRY STANDPIPE Element Type: Line

WSP

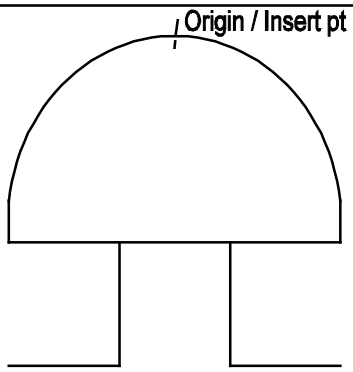
Fire Suppression: STDWET
WET STANDPIPE
Element Type: Line

12 Fire Suppression Symbols Library

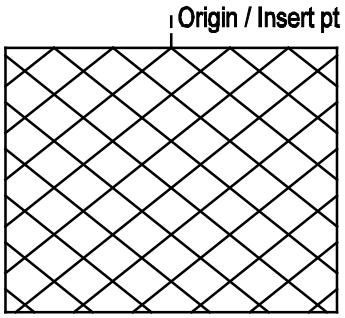
		
Fire suppression: ABORT ABORT SWITCH Element Type: Symbol	Fire suppression: ACCESS FIRE DEPARTMENT ACCESS Element Type: Symbol	Fire suppression: AFFAAP FIREALARM ANNUNCIATOR Element Type: Symbol
		
Fire suppression: AFFARP FIRE ALARM RESET PANEL Element Type: Symbol	Fire suppression: AFFAVC FIRE ALARM VOICE COMM Element Type: Symbol	Fire suppression: AFFDAP FIRE DEPARTMENT ACCESS Element Type: Symbol
		
Fire suppression: AFFDKB FIRE DEPARTMENT KEY BO Element Type: Symbol	Fire suppression: AFSCPP SMOKE CONTROL PRESS PA Element Type: Symbol	Fire suppression: AFSSWF SPRNKLR SYS WATER FLOW Element Type: Symbol



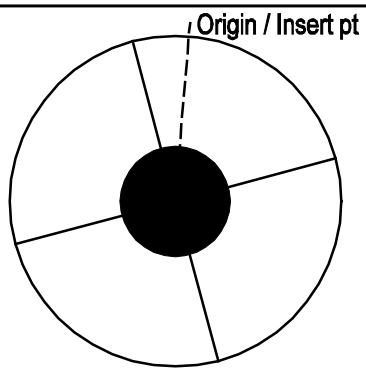
Fire suppression: AGSTCN
AGENT STORAGE CONTAINE
Element Type: Symbol



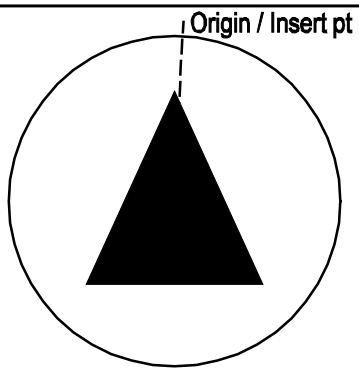
Fire suppression: BELL
BELL GONG
Element Type: Symbol



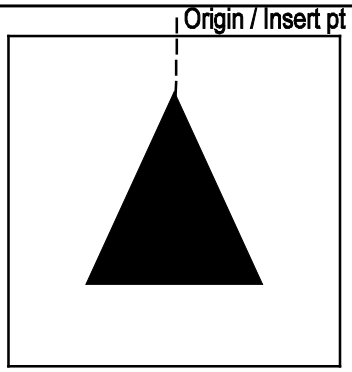
Fire suppression: BOILER
BOILER
Element Type: Symbol



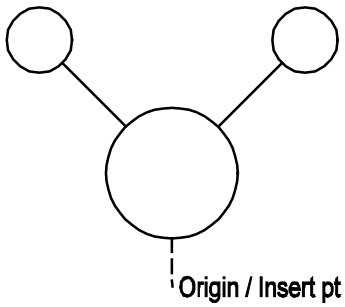
Fire suppression: CHIMNY
CHIMNEY
Element Type: Symbol



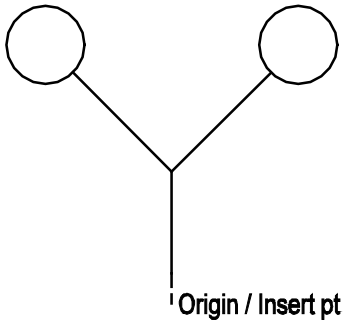
Fire suppression: CO2AA
C02 AUTO ACTUATED EXNG
Element Type: Symbol



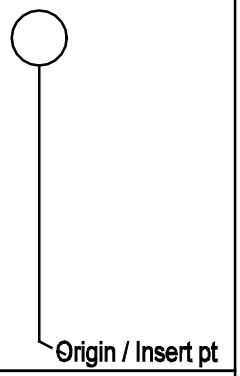
Fire suppression: CO2MA
C02 MAN ACTUATED EXTNG
Element Type: Symbol



Fire suppression: CONSFS
FREESTNDNG SIAMESE F.D
Element Type: Symbol

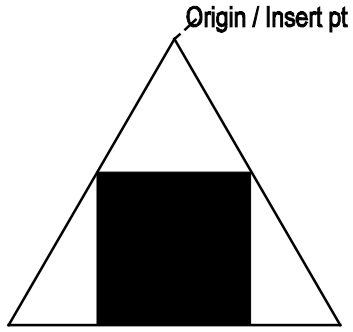
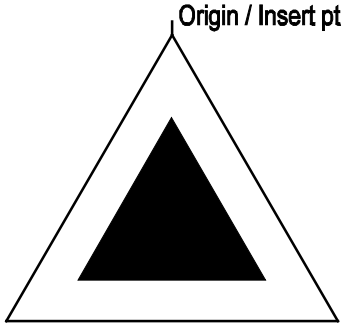
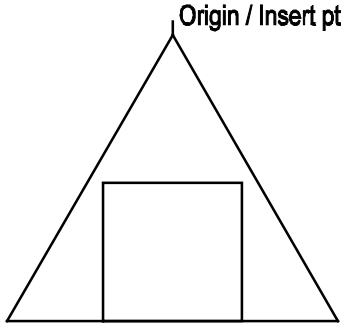
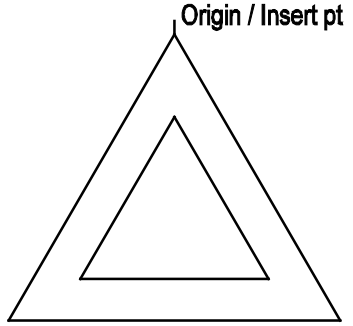
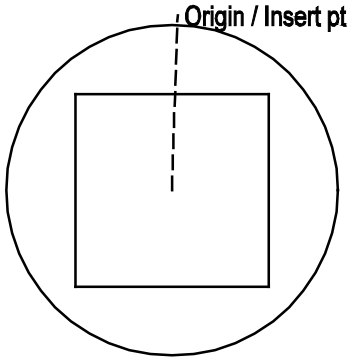
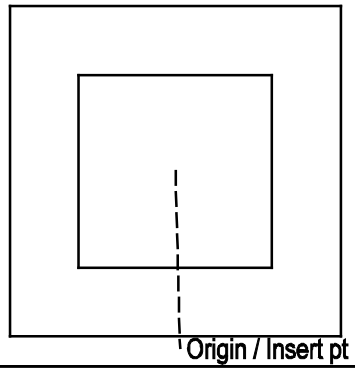
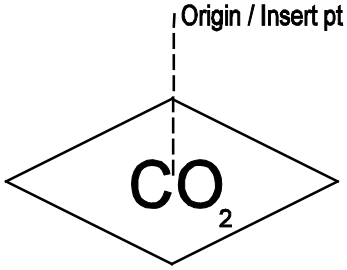
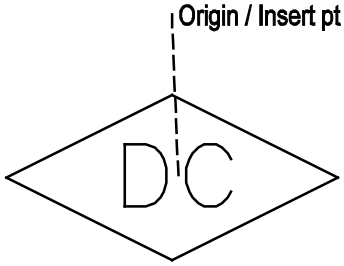
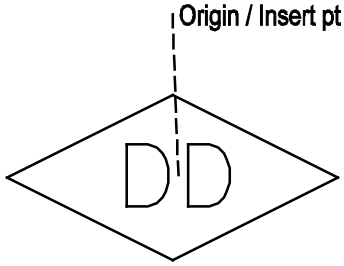


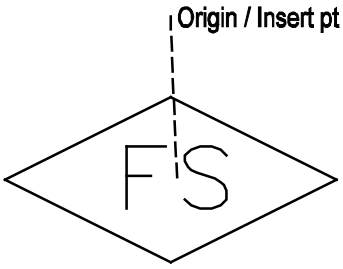
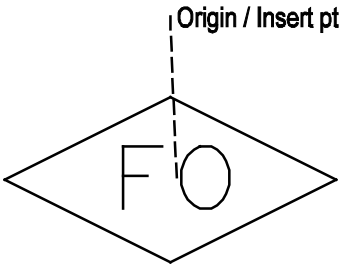
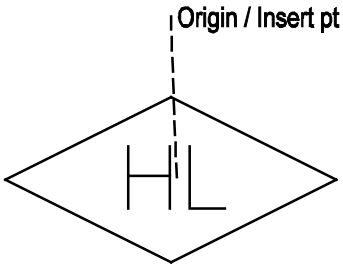
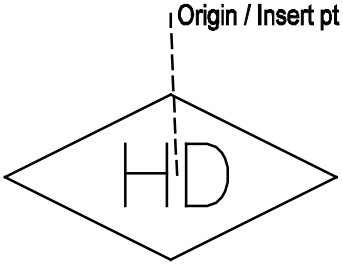
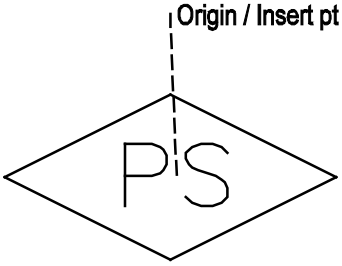
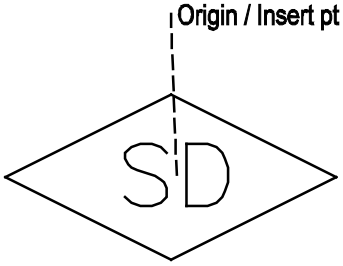
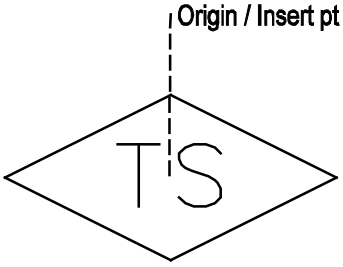
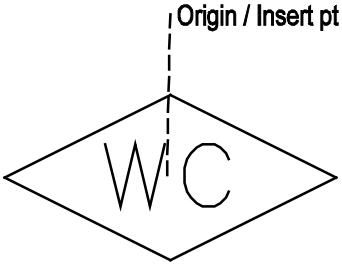
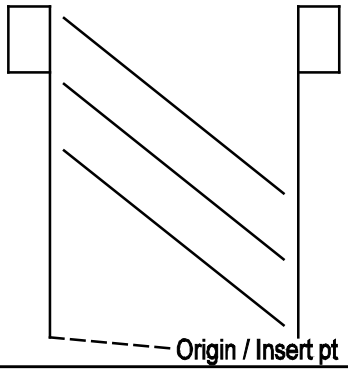
Fire suppression: CONSIA
SIAMESE FIRE DPT CONNE
Element Type: Symbol



Fire suppression: CONSNG
SINGLE FIRE DPT. CONNE
Element Type: Symbol

Origin / Insert pt ESR	Origin / Insert pt FAC	Origin / Insert pt FCP
Fire suppression: CPESR ELEVATOR STATUS RECALL Element Type: Symbol	Fire suppression: CPFAC FIRE ALARM COMMUNICATO Element Type: Symbol	Fire suppression: CPFCP FIRE ALARM CONTROL PAN Element Type: Symbol
Origin / Insert pt FSA	Origin / Insert pt FTR	Origin / Insert pt HCP
Fire suppression: CPFSA FIRE SYSTEM ANNUNCIATOR Element Type: Symbol	Fire suppression: CPFTR FIREALARM TRANSPONDR X Element Type: Symbol	Fire suppression: CPHCP HALON CONTROL PANEL Element Type: Symbol
Origin / Insert pt HVA	Origin / Insert pt	Origin / Insert pt
Fire suppression: CPHVA CONTROL PANEL HVAC Element Type: Symbol	Fire suppression: DCATAA ALLTYPE FIREEXTNGSHRAU Element Type: Symbol	Fire suppression: DCATMA ALLTYPE FIREEXTNGSHR M Element Type: Symbol

		
Fire suppression: DCEABC DRY CHEM EXTNGSHR ABC Element Type: Symbol	Fire suppression: DCECO2 C02 EXTINGUISHER Element Type: Symbol	Fire suppression: DCEBC DRY CHEM EXTNGUISHR BC Element Type: Symbol
		
Fire suppression: DCEHLN HALON OR CLEANAGENTEXT Element Type: Symbol	Fire suppression: DCLGAA DRY CHEM AUTO ACT EXTN Element Type: Symbol	Fire suppression: DCLGMA DRY CHEM MAN ACTUATED Element Type: Symbol
		
Fire suppression: DECO2 C02 SYSTEM Element Type: Symbol	Fire suppression: DEDRYC DRY CHEMICAL SYSTEM Element Type: Symbol	Fire suppression: DEDUCT DUCT DETECTOR Element Type: Symbol

		
Fire suppression: DEFLOW FLOW SWITCH WATER Element Type: Symbol	Fire suppression: DEFOAM FOAM SYSTEM Element Type: Symbol	Fire suppression: DEHALN HALON SYSTEM Element Type: Symbol
		
Fire suppression: DEHEAT HEAT DETECTOR Element Type: Symbol	Fire suppression: DEPULL MANUAL PULL STATION Element Type: Symbol	Fire suppression: DESMOK SMOKE DETECTOR Element Type: Symbol
		
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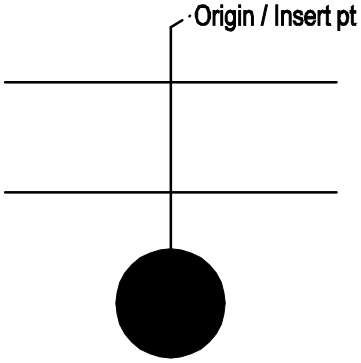	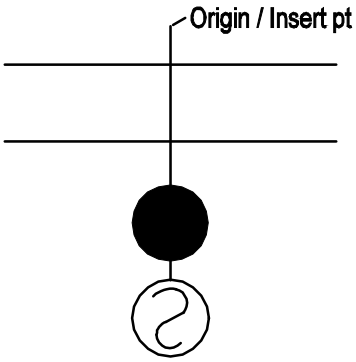	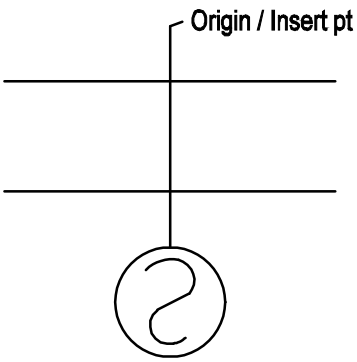
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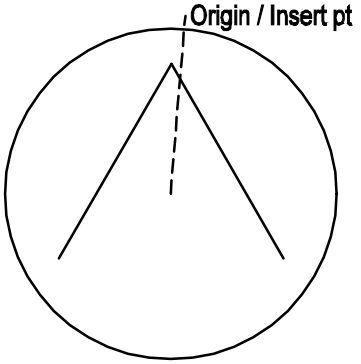	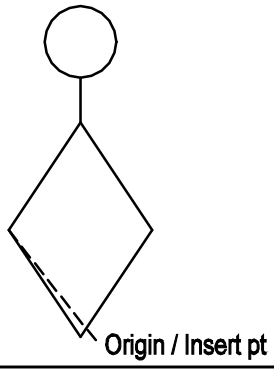	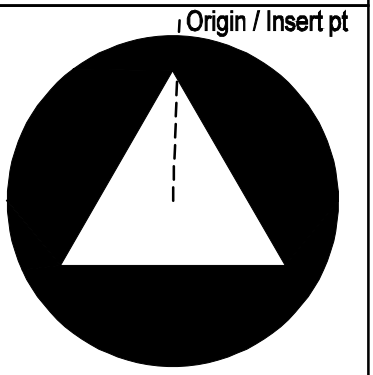
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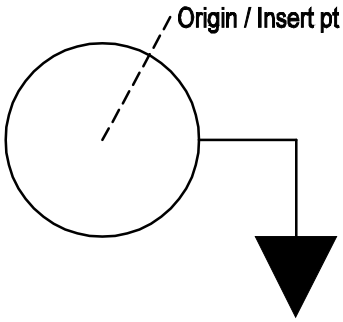	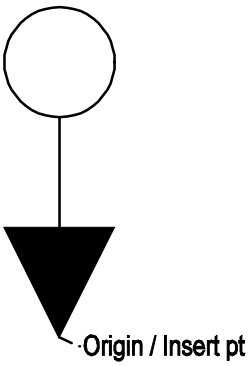	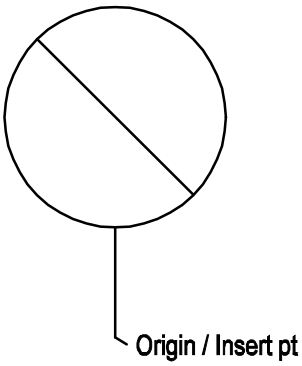
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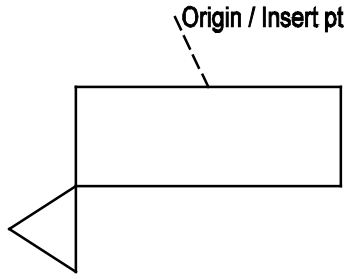	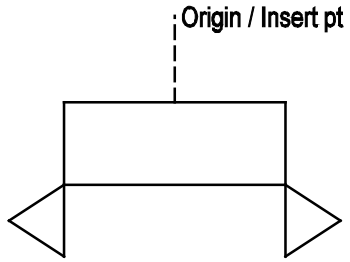	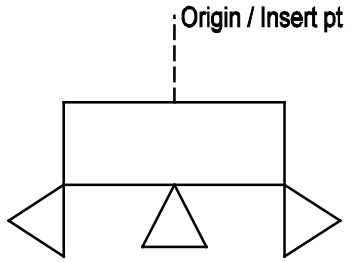
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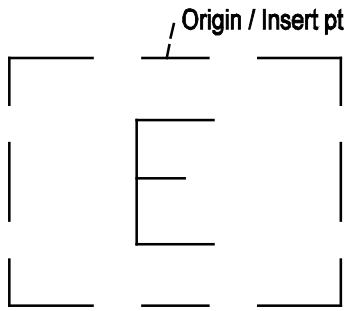	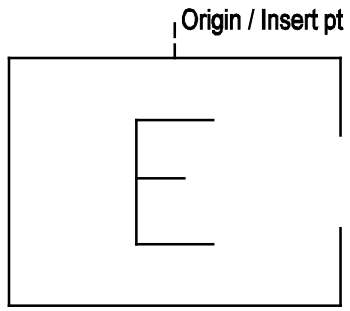	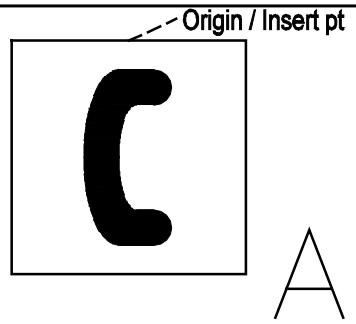
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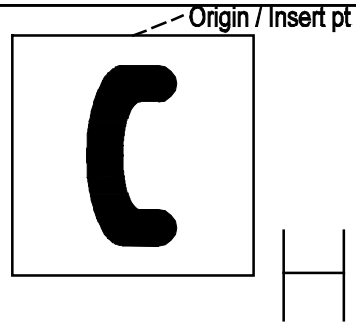	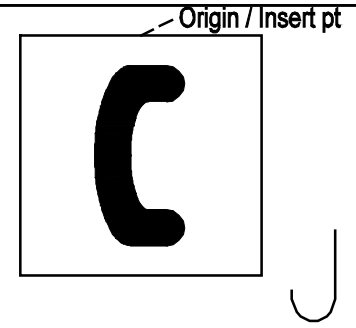	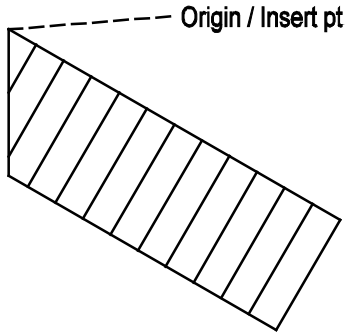
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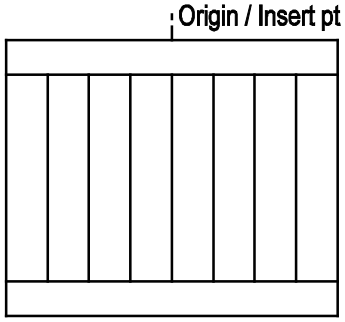	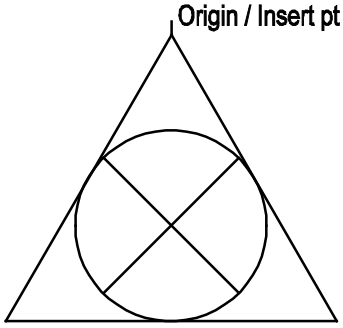	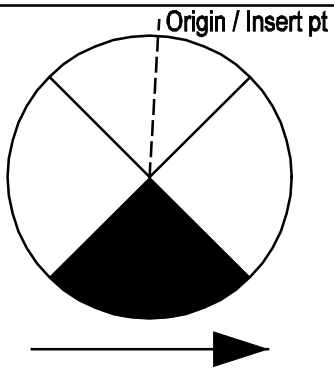
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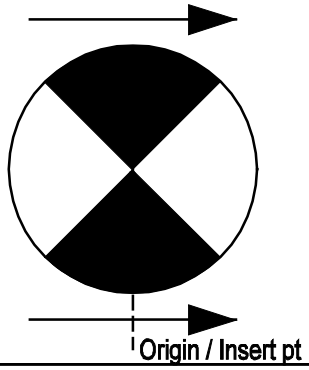	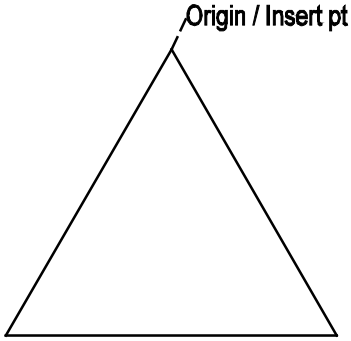	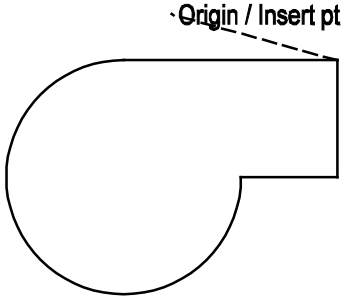
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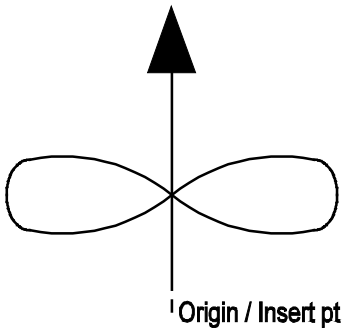	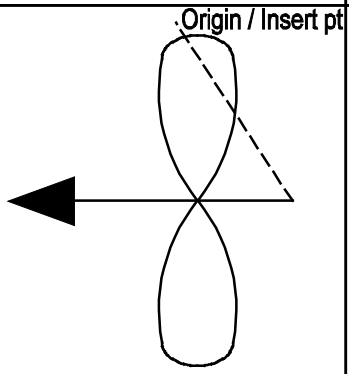	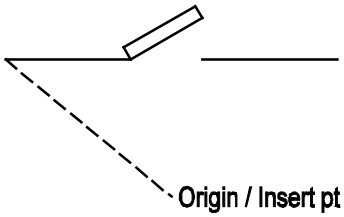
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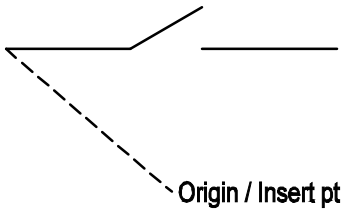	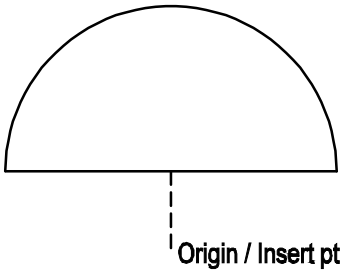	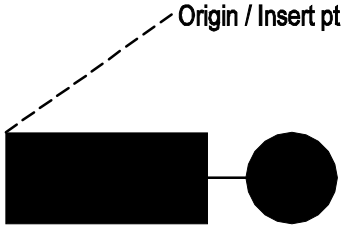
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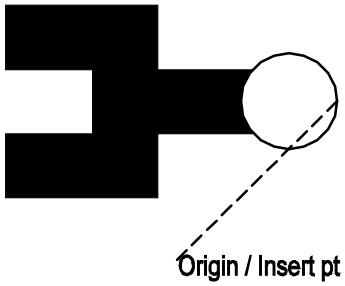	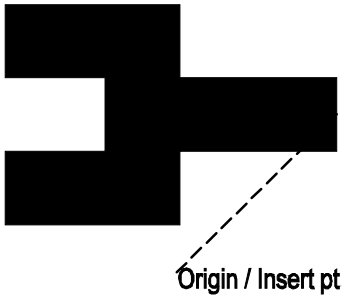	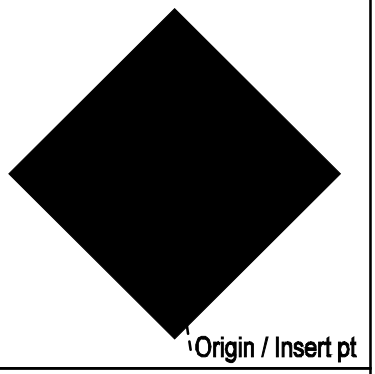
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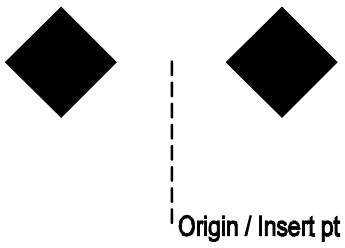	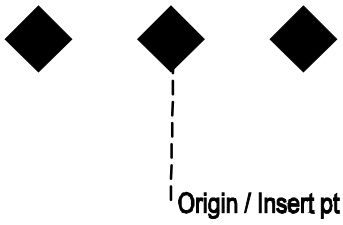	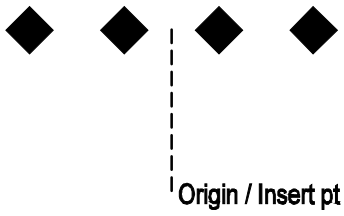
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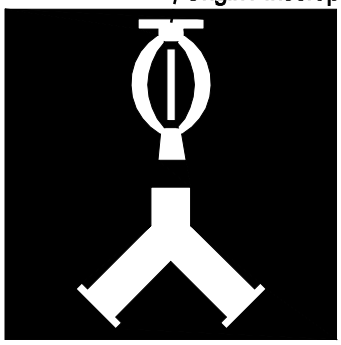
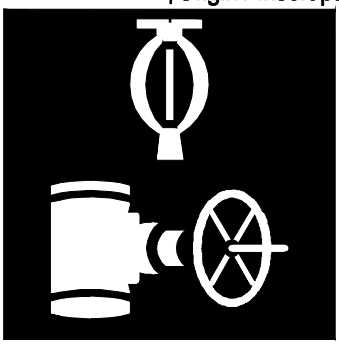
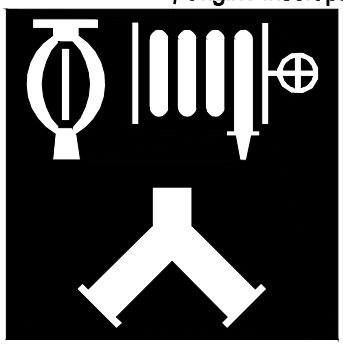
Origin / Insert pt 	Origin / Insert pt 	Origin / Insert pt 
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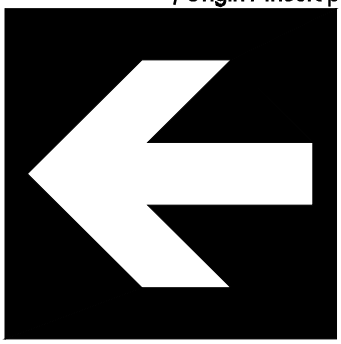
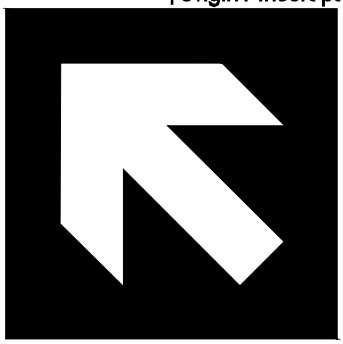
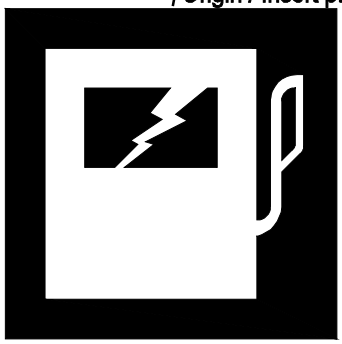
Origin / Insert pt 	Origin / Insert pt 	Origin / Insert pt 
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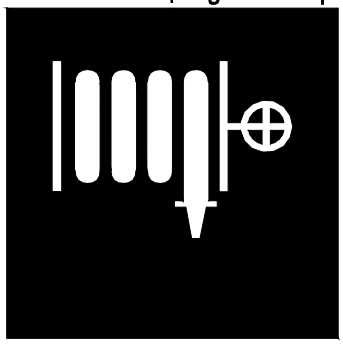
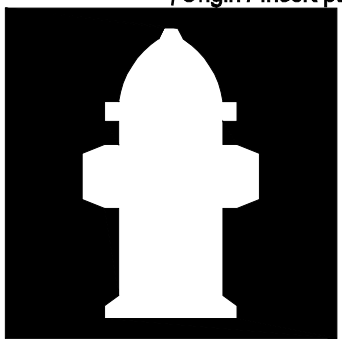
Origin / Insert pt	Origin / Insert pt 	Origin / Insert pt 
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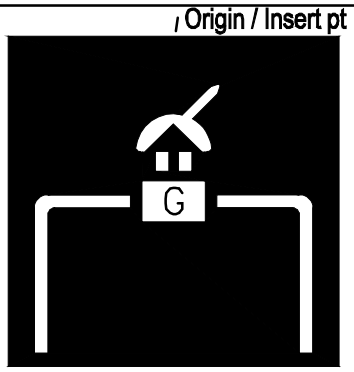
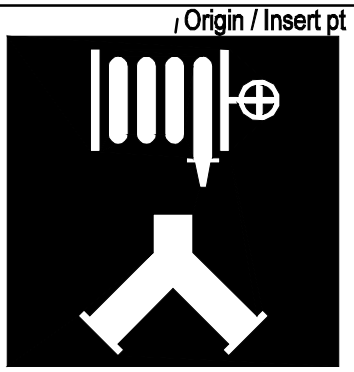
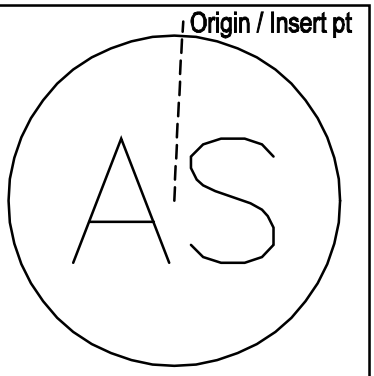
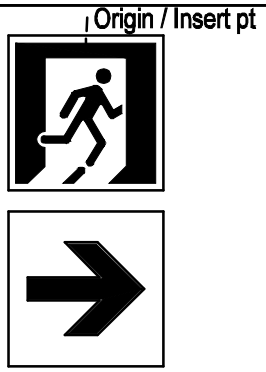
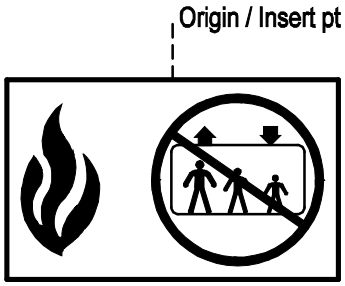
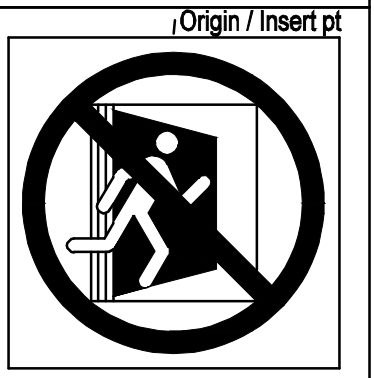
		
Fire suppression: FSGSV GAS SHUTOFF VALVE Element Type: Symbol	Fire suppression: FSSC FIREDEPT STANDARD PIPE Element Type: Symbol	Fire suppression: FULLSS FULLY SPRINKLERED SPAC Element Type: Symbol
Fire suppression: GUAEE ACCESSIBLE EMERGENCY E Element Type: Symbol	Fire suppression: GUAEER ACCESSIBLE EMERGENCY E Element Type: Symbol	Fire suppression: GUEE EMERGENCY EXIT Element Type: Symbol
		
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		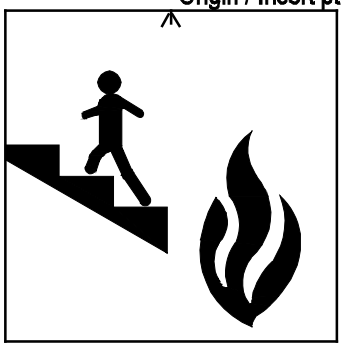
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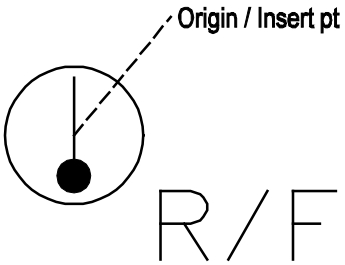	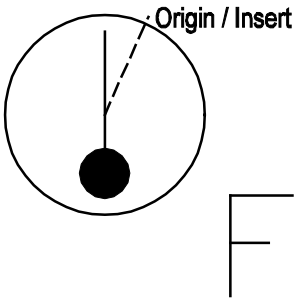	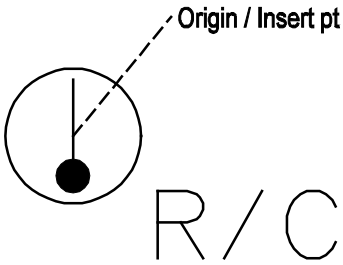
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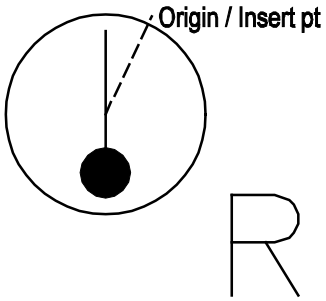
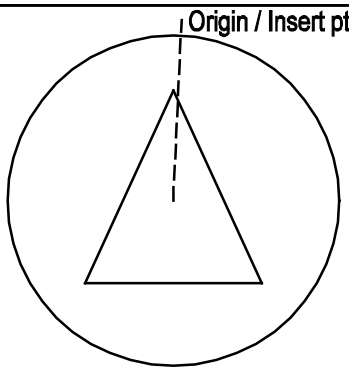
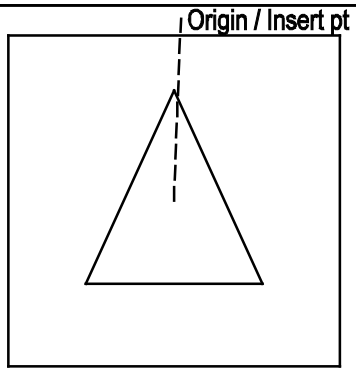
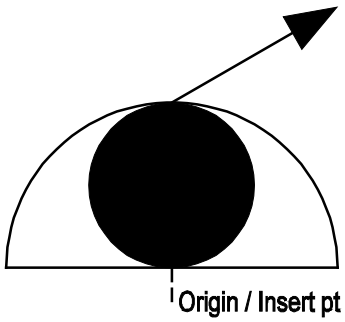
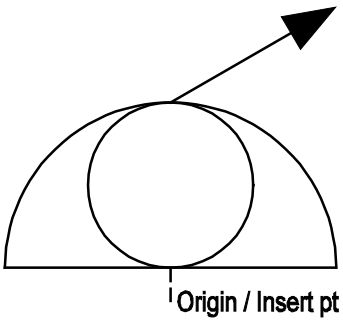
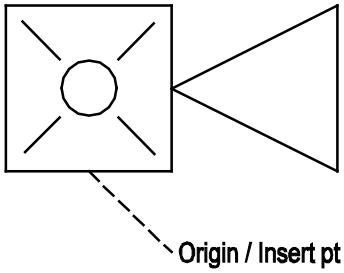
		
Fire suppression: HDROR RATE OF RISE HEAT DETE Element Type: Symbol	Fire suppression: HLNAA AUTO ACT HALON EXTINGU Element Type: Symbol	Fire suppression: HLNMA MAN ACT HALON EXTNGSHR Element Type: Symbol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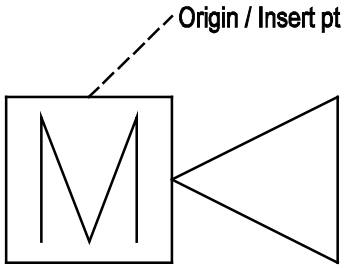
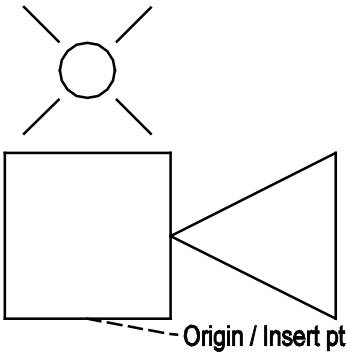
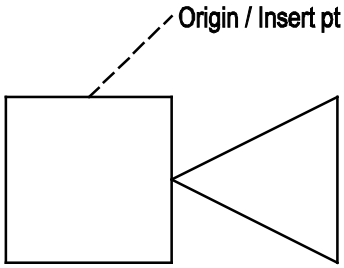
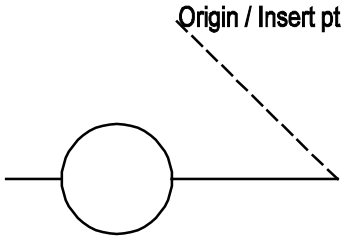
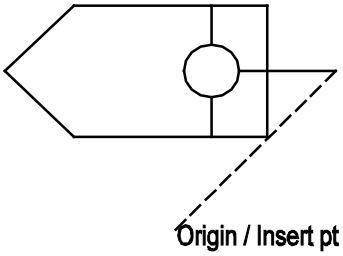
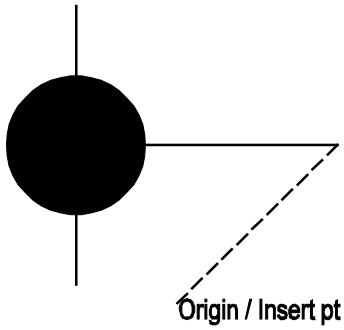
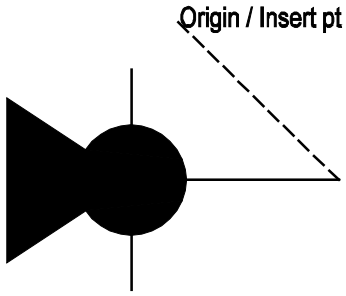
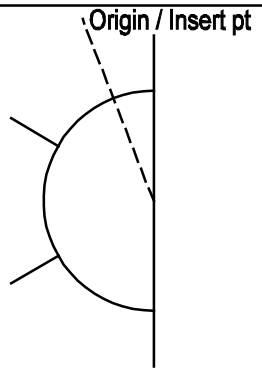
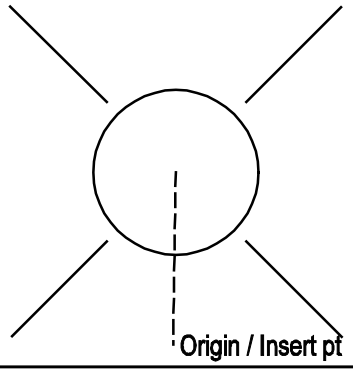
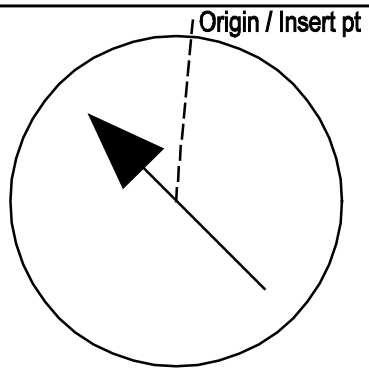
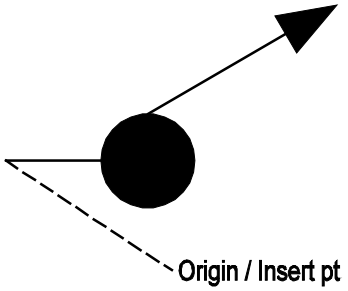
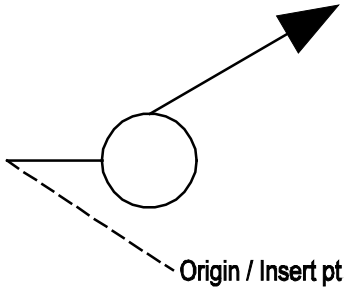
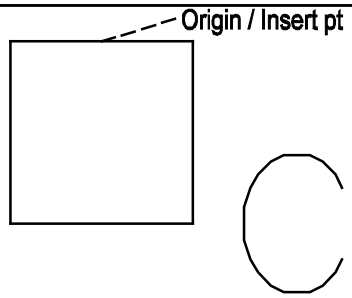
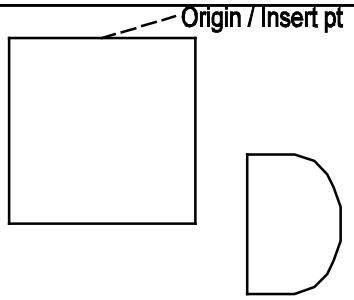
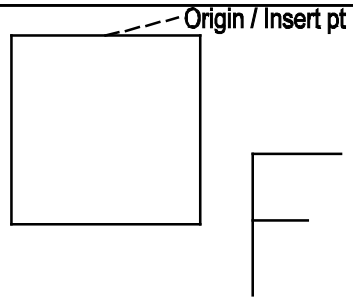
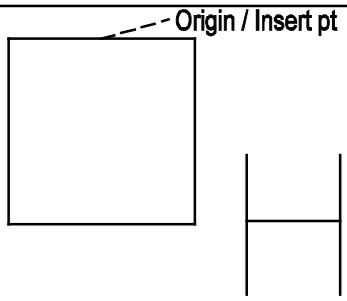
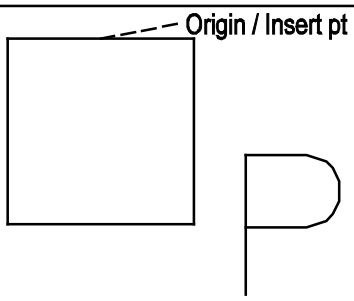
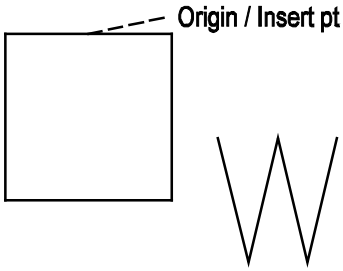
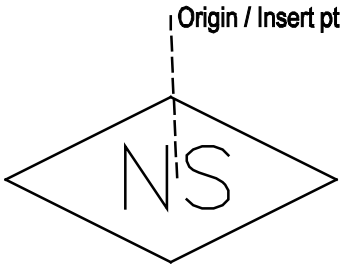
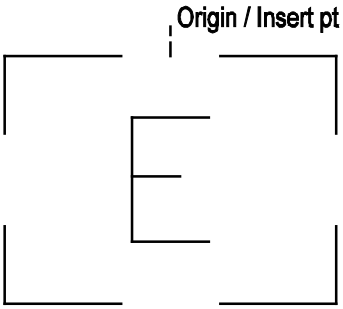
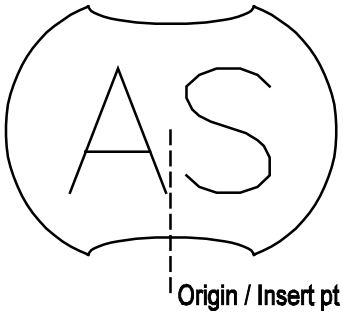
		
Fire suppression: HRNMIN MINI HORN Element Type: Symbol	Fire suppression: HRNSA SEPARATE ASSEMBLY HORN Element Type: Symbol	Fire suppression: HRNSPK SPEAKER HORN ELECTRIC Element Type: Symbol
		
Fire suppression: HYDPR1 PRIV HYDRANT 1 HOSE OU Element Type: Symbol	Fire suppression: HYDPR2 PRIVATE HOUSED HYDRANT Element Type: Symbol	Fire suppression: HYDPU2 PUBLIC TWO HOSE OUTLET Element Type: Symbol

		
Fire suppression: HYDPUP PUBHYDRNT2HOSOUTLTPMPC Element Type: Symbol	Fire suppression: HYDW2H WALL HYDRANT 2 HOSE OU Element Type: Symbol	Fire suppression: LIGHT LIGHT Element Type: Symbol
		
Fire suppression: METER METER Element Type: Symbol	Fire suppression: MNCHRG MONITOR NOZZLE CHARGED Element Type: Symbol	Fire suppression: MNDRY MONITOR NOZZLE DRY Element Type: Symbol
		
Fire suppression: MSCO2 MAN CARBON DIOXIDE STA Element Type: Symbol	Fire suppression: MSDRYC MANUAL DRY CHEMICAL ST Element Type: Symbol	Fire suppression: MSFOAM MANUAL FOAM STATION Element Type: Symbol

		
Fire suppression: MSHALN MANUAL HALON STATION Element Type: Symbol	Fire suppression: MSPULL MANUAL PULL STATION Element Type: Symbol	Fire suppression: MSWETC MANUAL WET CHEMICAL ST Element Type: Symbol
		
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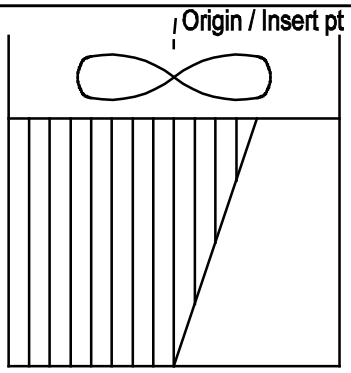
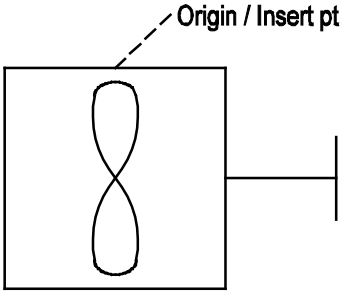
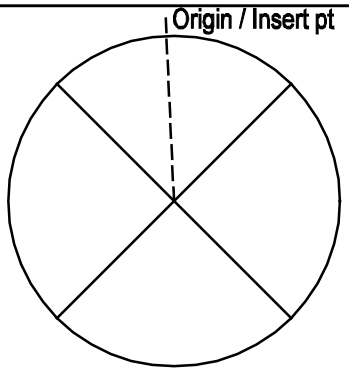
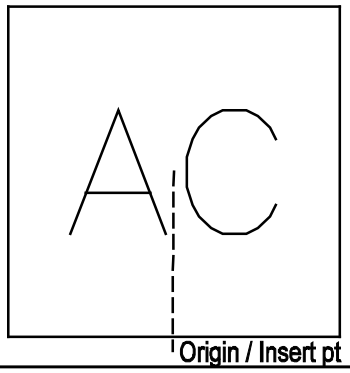
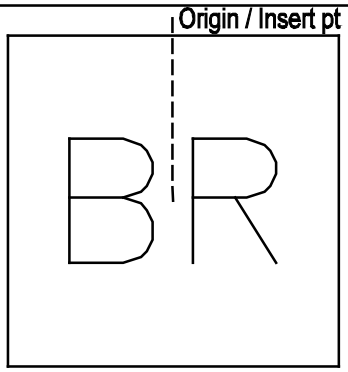
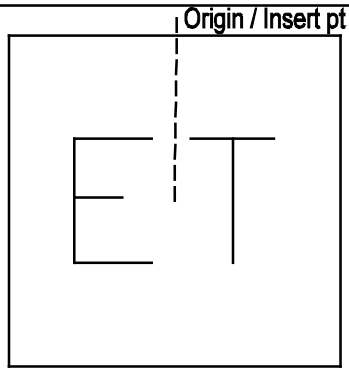
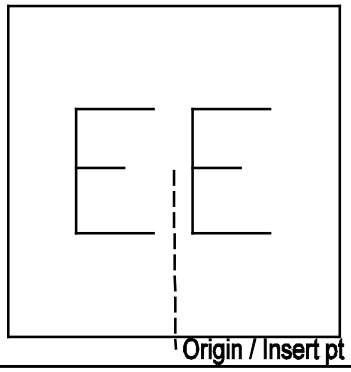
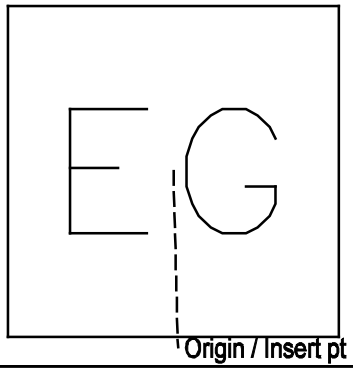
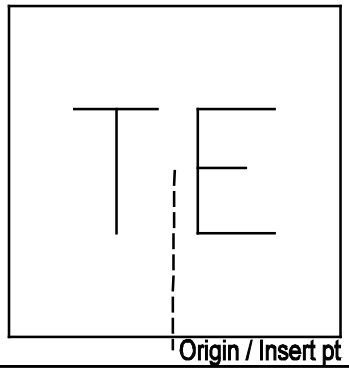
		
Fire suppression: PRSTR PRESSURIZED STAIRWELL Element Type: Symbol	Fire suppression: PURGE MANUAL PURGE CONTROL Element Type: Symbol	Fire suppression: RISER RISER Element Type: Symbol

		
Fire suppression: RMAIRC AIR CONDITIONING EQUIP Element Type: Symbol	Fire suppression: RMBOIL BOILER ROOM Element Type: Symbol	Fire suppression: RMELEC ELECTRICAL TRANSFORMER Element Type: Symbol
		
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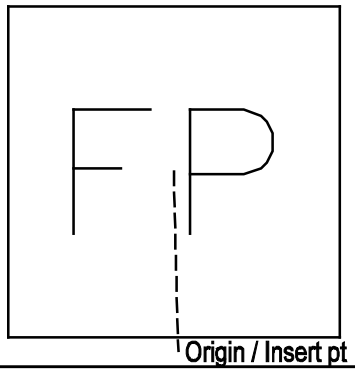
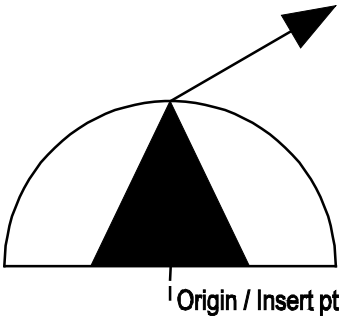
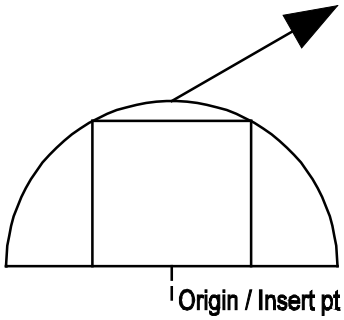
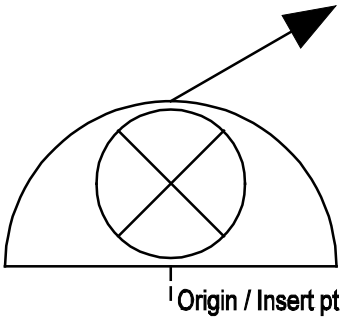
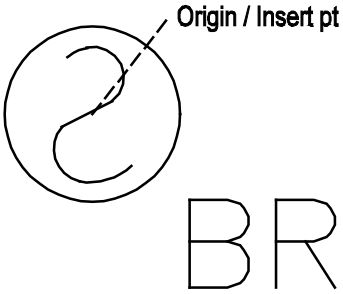
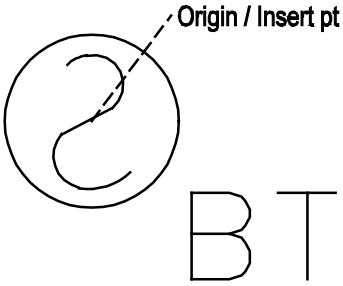
		
Fire suppression: RMPUMP FIRE PUMP ROOM Element Type: Symbol	Fire suppression: RSCO2 C02 REEL STATION Element Type: Symbol	Fire suppression: RSDRYC DRY CHEMICAL REEL STAT Element Type: Symbol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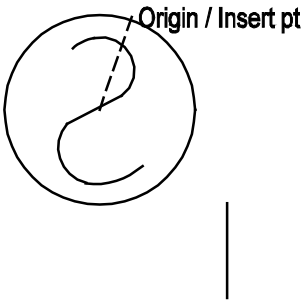
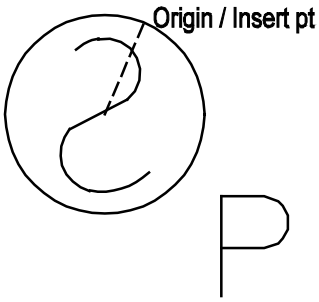
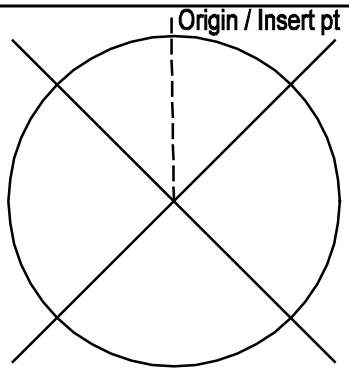
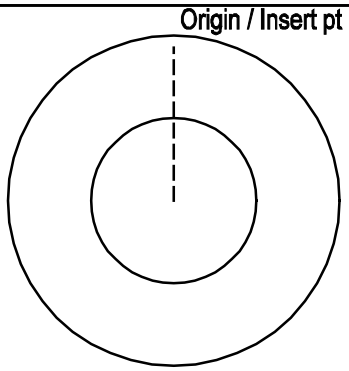
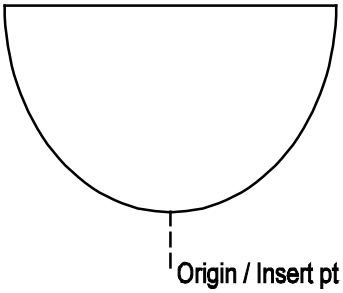
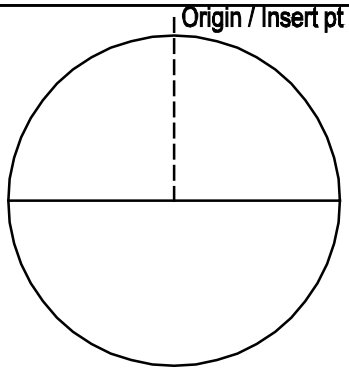
		
Fire suppression: SDION IONIZATION SMOKE DETEC Element Type: Symbol	Fire suppression: SDPHO PHOTOELECTRIC SMOKE DE Element Type: Symbol	Fire suppression: SHGARD SPRINKLER HEAD W GUARD Element Type: Symbol
		
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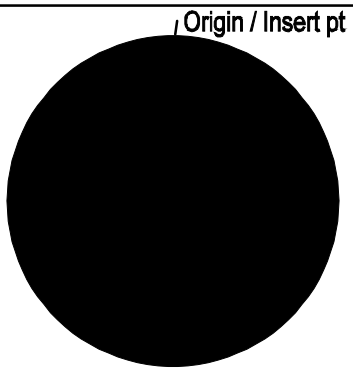	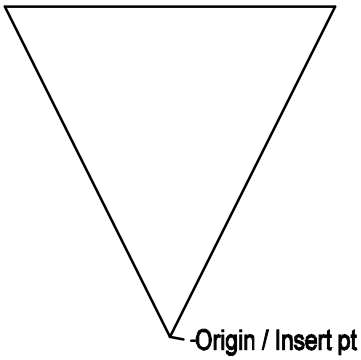	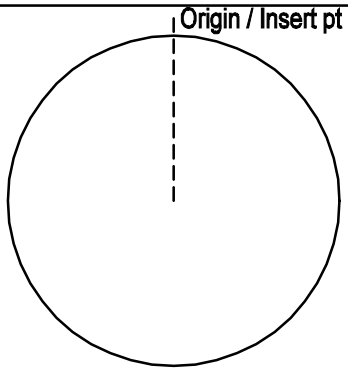
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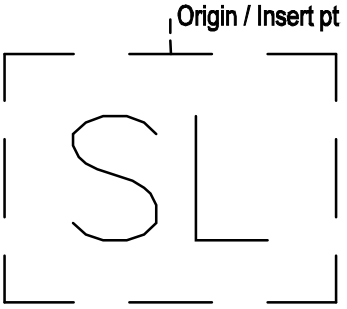
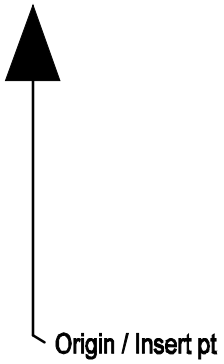
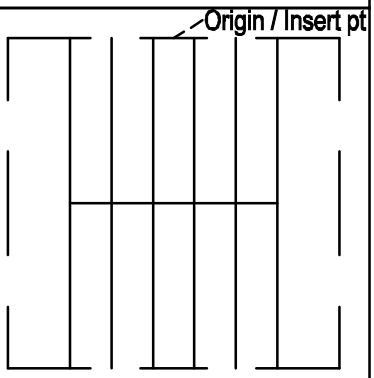
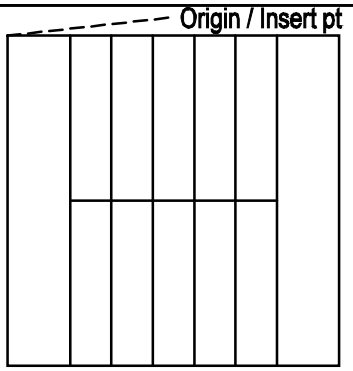
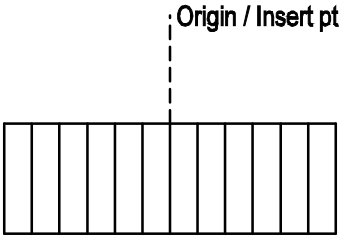
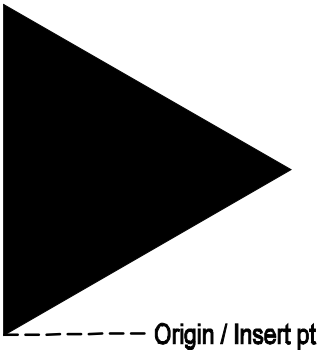
		
Fire suppression: SKYLIT SKYLIGHT Element Type: Symbol	Fire suppression: SSNOZZ SPECIAL SPRAY NOZZLE Element Type: Symbol	Fire suppression: STRCS STAIR IN COMBUSTIBLE S Element Type: Symbol
		
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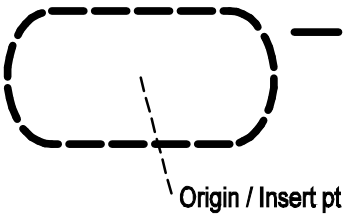	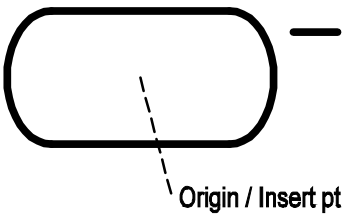	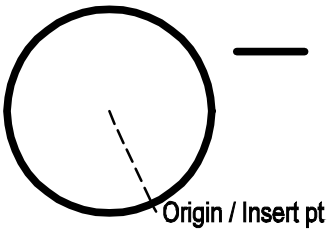
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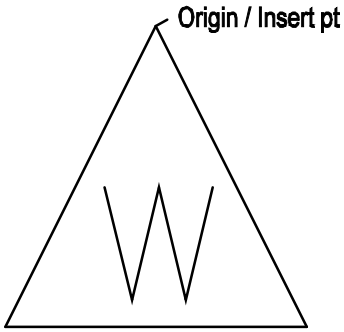	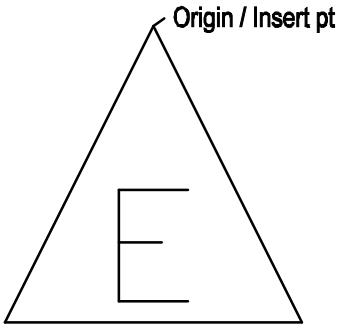	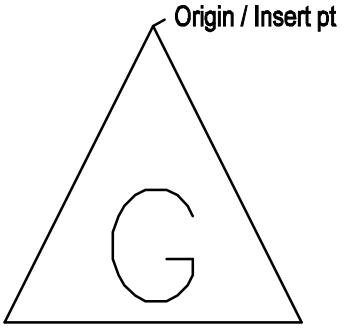
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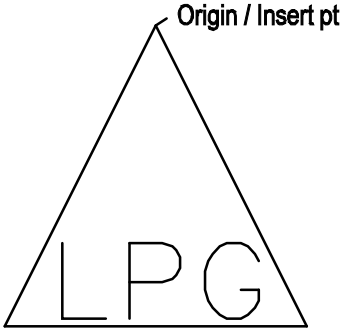	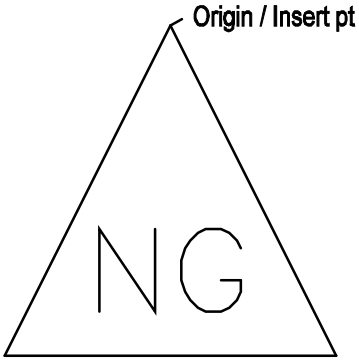	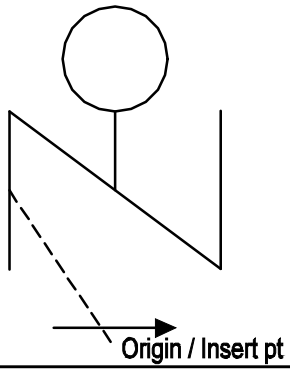
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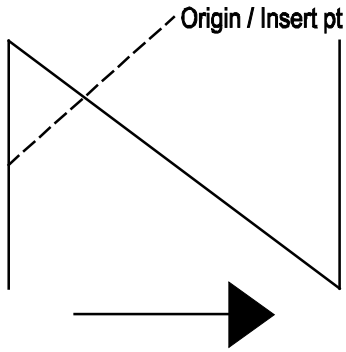
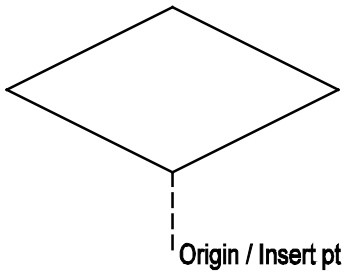
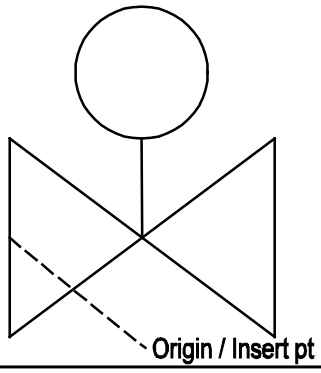
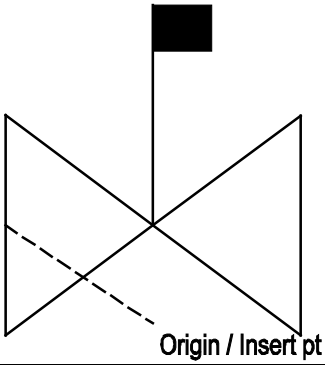
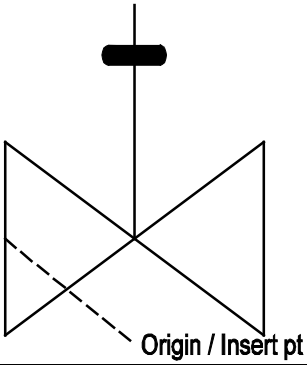
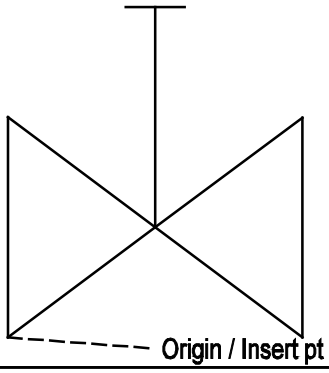
		
Fire suppression: VLVCHK CHECK VALVE Element Type: Symbol	Fire suppression: VLVDEL DELUGE VALVE Element Type: Symbol	Fire suppression: VLVDRY DRY PIPE VALVE Element Type: Symbol
		
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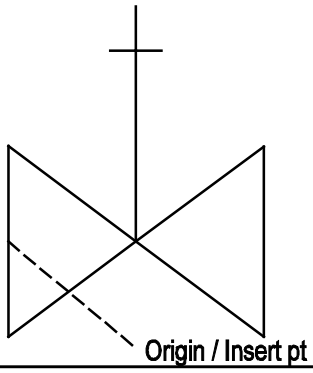	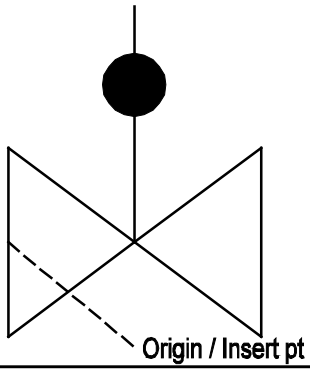	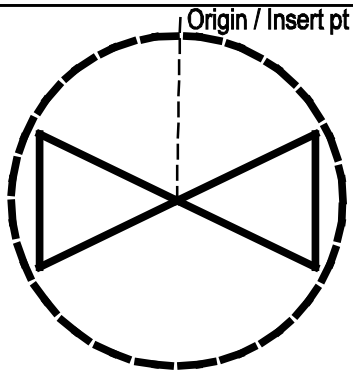
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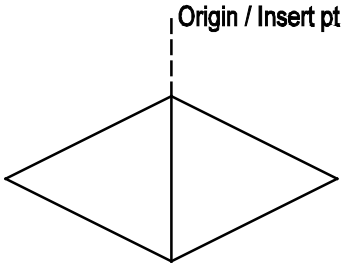	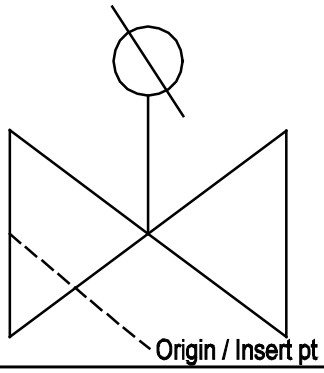	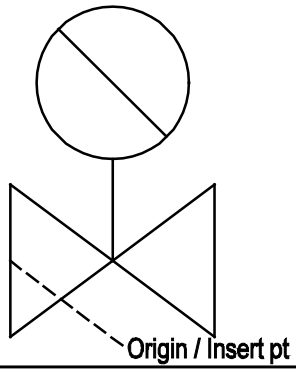
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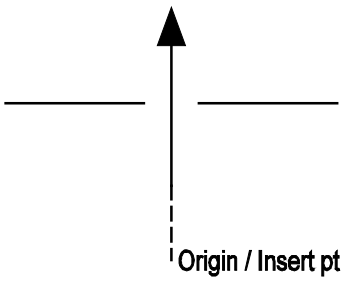
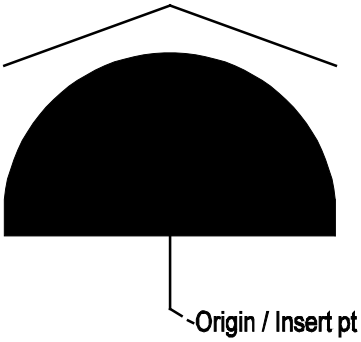
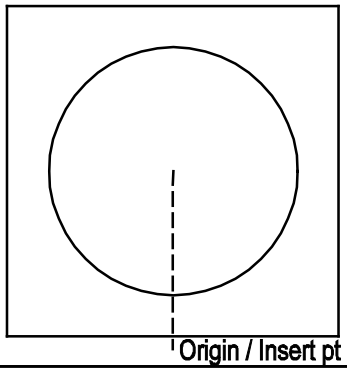
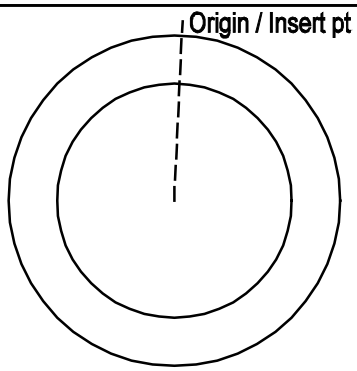
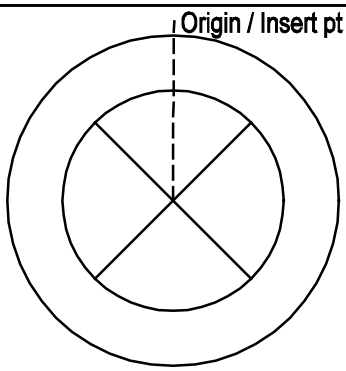
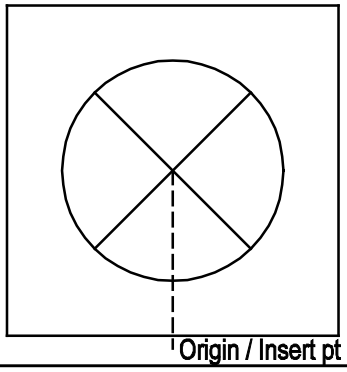
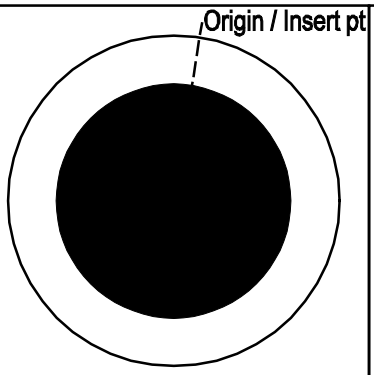
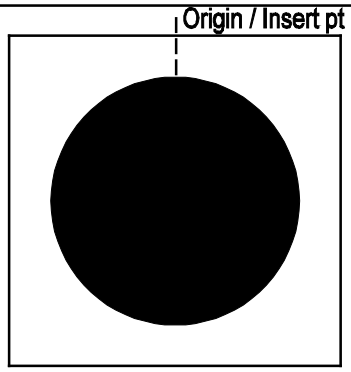
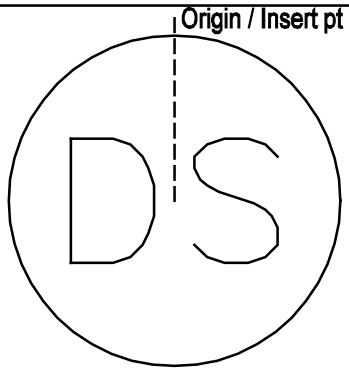
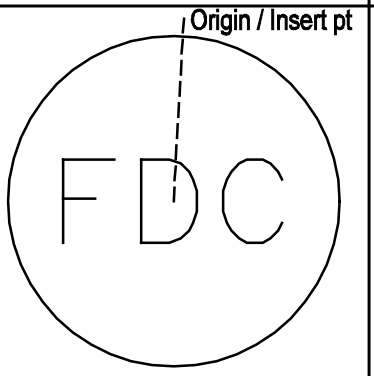
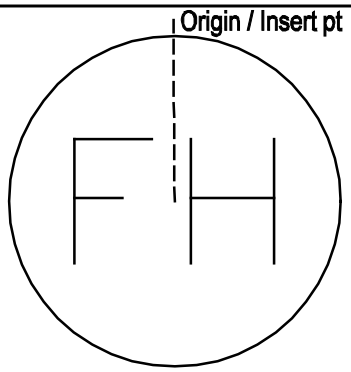
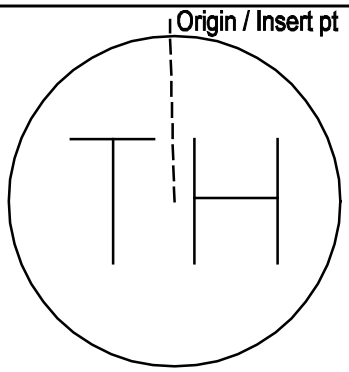
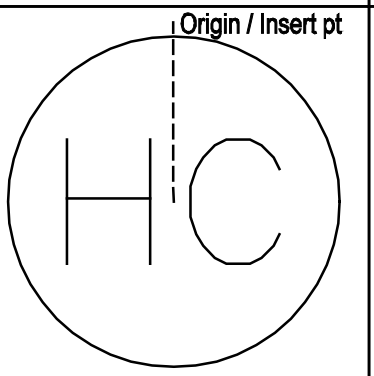
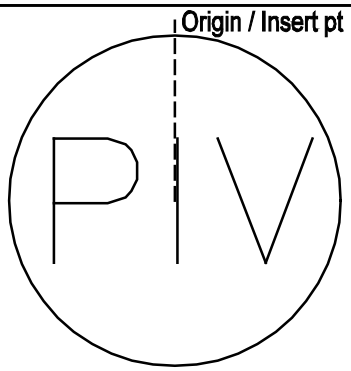
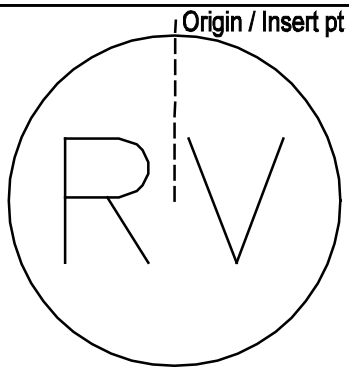
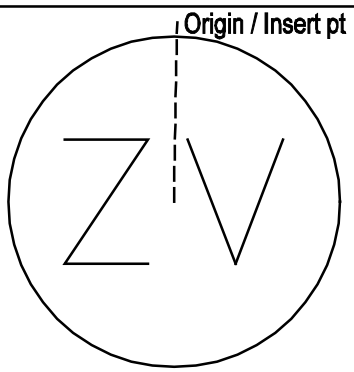
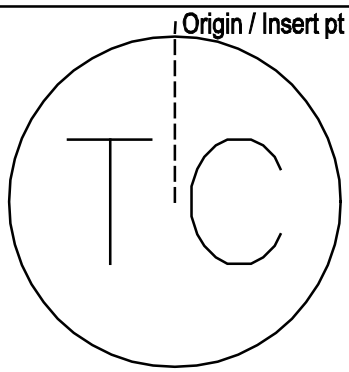
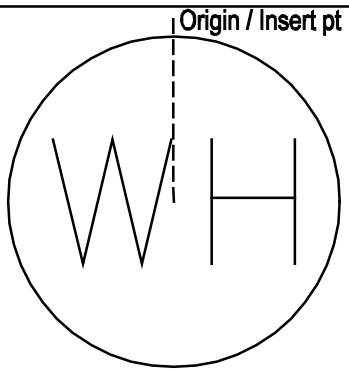
		
Fire suppression: VNTOPN VENTILATION OPENINGS Element Type: Symbol	Fire suppression: WALARM WATER MOTOR ALARM Element Type: Symbol	Fire suppression: WBDSMA WATER BASED DRY SYS MA Element Type: Symbol
		
Fire suppression: WBDSSA WATERBASED DRY SYS AUT Element Type: Symbol	Fire suppression: WBFSAA WATR BASED FOAM SYS AU Element Type: Symbol	Fire suppression: WBFSMA WATR BASED FOAM SYS MA Element Type: Symbol

		
Fire suppression: WBWSAA WATERBASED WET SYS AUT Element Type: Symbol	Fire suppression: WBWSMA WATER BASED WET SYS MA Element Type: Symbol	Fire suppression: WWDRFT DRAFTING SITE Element Type: Symbol
		
Fire suppression: WWFDC FIRE DEPARTMENT CONNEC Element Type: Symbol	Fire suppression: WWFHYD FIRE HYDRANT Element Type: Symbol	Fire suppression: WWHEAD TEST HEADER FIRE PUMP Element Type: Symbol
		
Fire suppression: WWHOSE HOSE CABINET OR CONNEC Element Type: Symbol	Fire suppression: WWPIV POST INDICATOR VALVE Element Type: Symbol	Fire suppression: WWRISR RISER VALVE Element Type: Symbol

		
Fire suppression: WWSZON SPRINKLER ZONE VALVE Element Type: Symbol	Fire suppression: WWTEST INSPECTORS TEST CONNEC Element Type: Symbol	Fire suppression: WWWHYD WALL HYDRANT Element Type: Symbol

13 Plumbing Lines Library

ACID	AR	ST
Plumbing: ACIDWS ACID WASTE Element Type: Line	Plumbing: ARGON ARGON Element Type: Line	Plumbing: CDRNAF CONDENSATE DRAIN ABVE Element Type: Line
ST		CT
Plumbing: CDRNBF CONDENSATE DRAIN BELW Element Type: Line	Plumbing: CLDWTR COLD WATER Element Type: Line	Plumbing: CLTILE CLAY TILE PIPE Element Type: Line
CI	CP	DI
Plumbing: CSIRON CAST IRON Element Type: Line	Plumbing: CULVRT CULVERT PIPE Element Type: Line	Plumbing: DCIRON DUCTILE IRON Element Type: Line

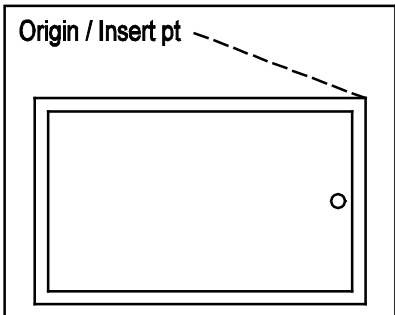
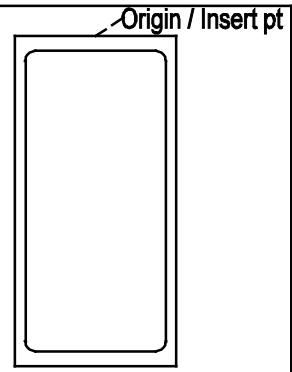
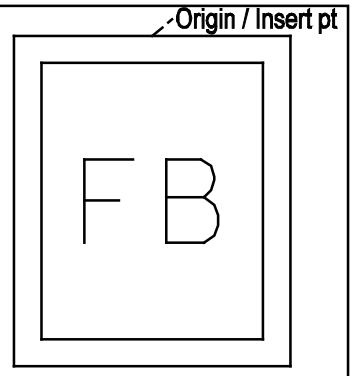
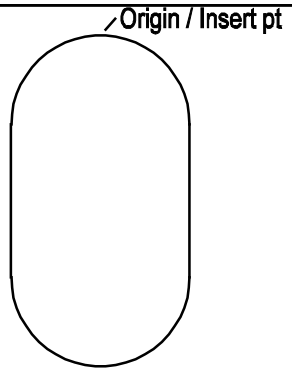
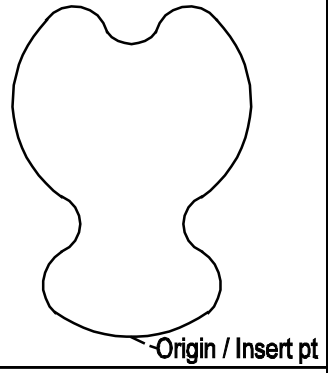
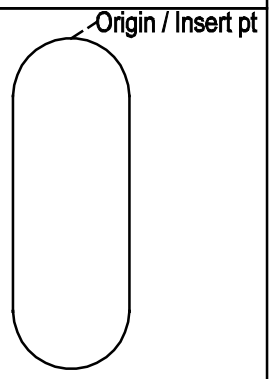
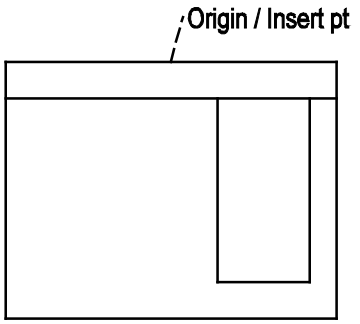
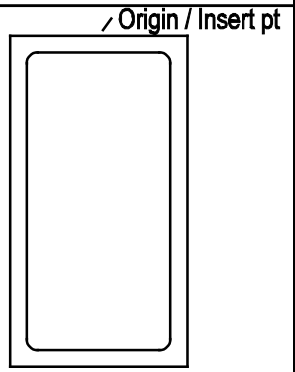
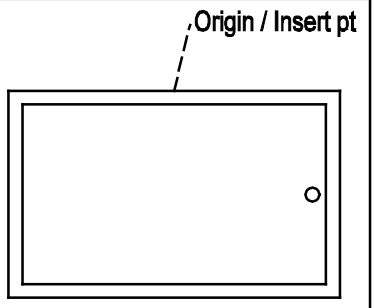
DWR	DWS	F
Plumbing: DWTRR DRINKING WATER RETURN Element Type: Line	Plumbing: DWTRS DRINKING WATER SUPPLY Element Type: Line	Plumbing: FIRE FIRE LINE Element Type: Line
HG	LG	MG
Plumbing: GASHP HIGH PRESSURE GAS Element Type: Line	Plumbing: GASLP LOW PRESSURE GAS Element Type: Line	Plumbing: GASMP MEDIUM PRESSURE GAS Element Type: Line
HE		
Plumbing: HELIUM HELIUM Element Type: Line	Plumbing: HWTR HOT WATER Element Type: Line	Plumbing: HWTRR HOT WATER RETURN Element Type: Line

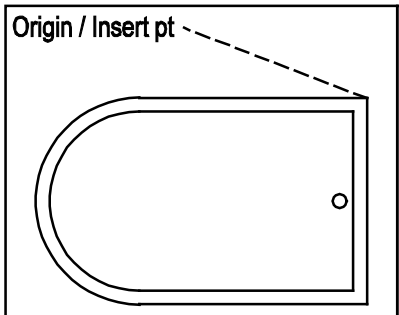
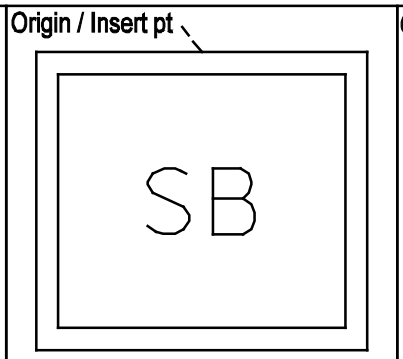
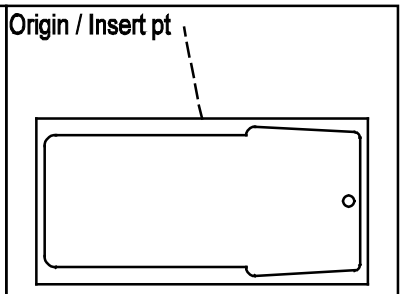
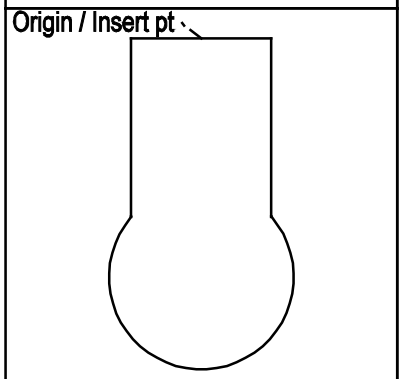
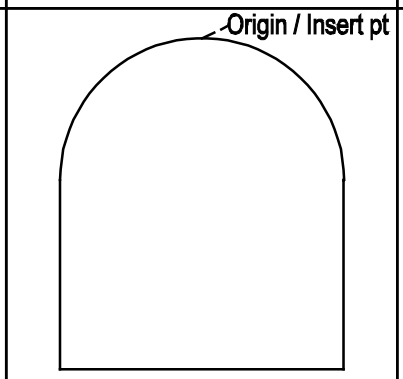
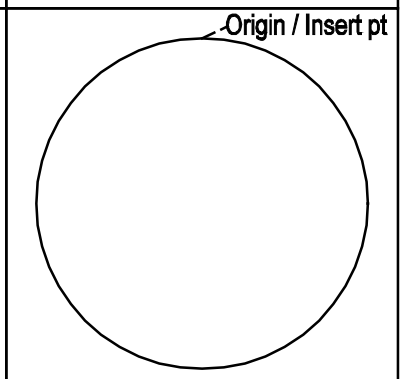
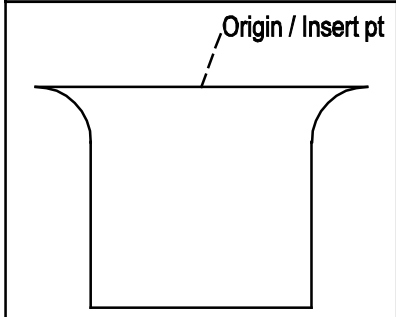
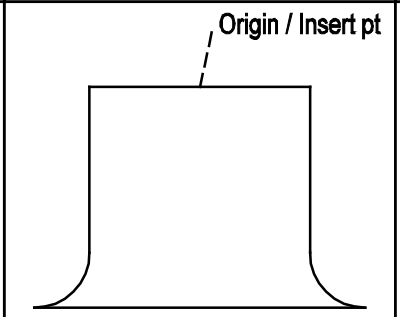
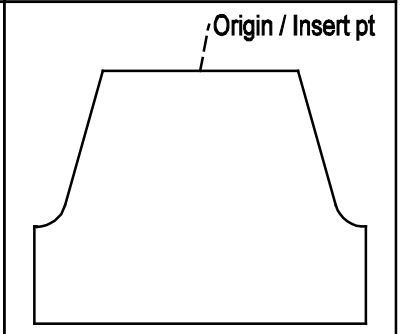
H	ICW	IHR
Plumbing: HYDRGN HYDROGEN Element Type: Line	Plumbing: ICWTR INDUSTRIAL COLD WATER Element Type: Line	Plumbing: IHWTRR INDUSTRIAL HOT WATER R Element Type: Line
IHW	IW	INW
Plumbing: IHWTRS INDUSTRIAL HOT WATER S Element Type: Line	Plumbing: INDDRN INDIRECT DRAIN Element Type: Line	Plumbing: IWASTE INDUSTRIAL WASTE Element Type: Line
LN	LOX	LPG
Plumbing: LIQNIT LIQUID NITROGEN Element Type: Line	Plumbing: LIQOXY LIQUID OXYGEN Element Type: Line	Plumbing: LIQPET LIQUID PETROLEUM GAS Element Type: Line

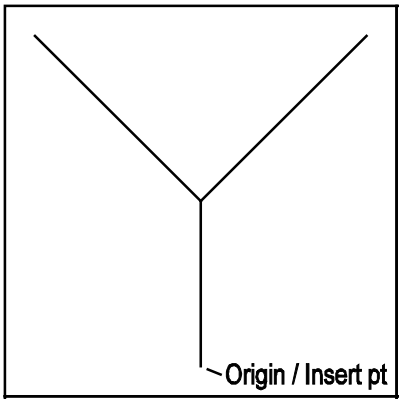
NO	N	
Plumbing: NITOXI NITROUS OXIDE Element Type: Line	Plumbing: NITROG NITROGEN Element Type: Line	Plumbing: OPTILE OPEN TILE OR AGR. TLE Element Type: Line
O	RCP	SW
Plumbing: OXYGEN OXYGEN Element Type: Line	Plumbing: RCPIPE REINFORCED CONCRETE PI Element Type: Line	Plumbing: SFCWTR SOFT COLD WATER Element Type: Line
		SS
Plumbing: SHWTRR SANITIZING HOT WATER R Element Type: Line	Plumbing: SHWTRS SANITIZING HOT WATER S Element Type: Line	Plumbing: SSWAF SANITRY SOIL WSTE ABVE Element Type: Line

— — SS — —	——— SD ———	— — SD — —
Plumbing: SSWBF SANITRY SOIL WSTE BELW Element Type: Line	Plumbing: STRMAF STORM DRAIN ABOVE FLOO Element Type: Line	Plumbing: STRMBF STORM DRAIN BELOW FLOO Element Type: Line
——— TWR ———	——— TWS ———	——— VC ———
Plumbing: TWATRR TEMPERED WATER RETURN Element Type: Line	Plumbing: TWATRS TEMPEREDE WATER SUPPLY Element Type: Line	Plumbing: VACCLN VACUUM CLEANING Element Type: Line
— — — — — — — —	——— SV ———	
Plumbing: VENT VENT Element Type: Line	Plumbing: VENTWS VENT AND WASTE COMBINA Element Type: Line	

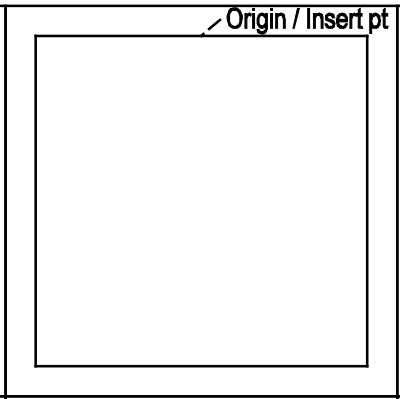
13 Plumbing Symbols Library

		
Plumbing: BATHCO CORNER BATH Element Type: Symbol	Plumbing: BATHEM EMERGENCY BATH Element Type: Symbol	Plumbing: BATHFT FOOT BATH Element Type: Symbol
		
Plumbing: BATHHA HYDROTHERAPY ARM BATH Element Type: Symbol	Plumbing: BATHHH HYDROTHERAPY HUBBARD B Element Type: Symbol	Plumbing: BATHHL HYDROTHERAPY LEG BATH Element Type: Symbol
		
Plumbing: BATHIF INFANT BATH Element Type: Symbol	Plumbing: BATHIN INSTITUTIONAL BATH Element Type: Symbol	Plumbing: BATHRC RECESSED BATH Element Type: Symbol

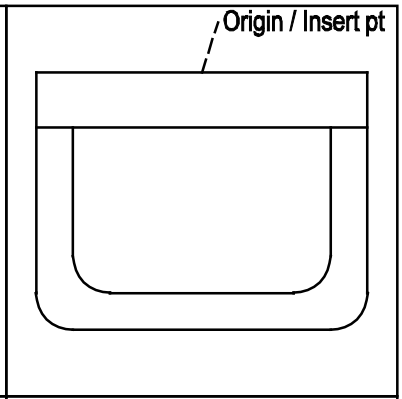
		
Plumbing: BATHRR ROLL RIM BATH Element Type: Symbol	Plumbing: BATHSZ SITZ BATH Element Type: Symbol	Plumbing: BATHWP WHIRLPOOL BATH Element Type: Symbol
		
Plumbing: BIDET WATERCLOSET BIDET Element Type: Symbol	Plumbing: CANWCT CAN WASHER CABINET TYP Element Type: Symbol	Plumbing: CANWDT CAN WASHER DISH TYPE Element Type: Symbol
		
Plumbing: DFPROJ DRINK FOUNTAN PROJECTN Element Type: Symbol	Plumbing: DFRECS DRINK FOUNTAIN RECESSE Element Type: Symbol	Plumbing: DFSREC DRINK FOUNTN SEMIRECSS Element Type: Symbol



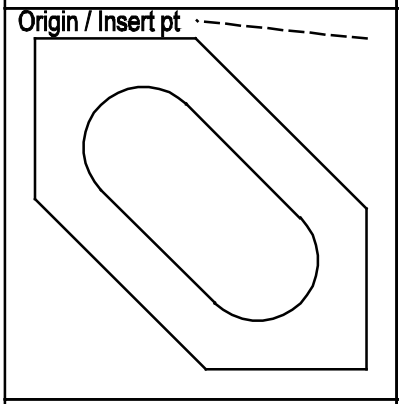
Plumbing: DRNFUN
OPEN DRAIN FUNNEL
Element Type: Symbol



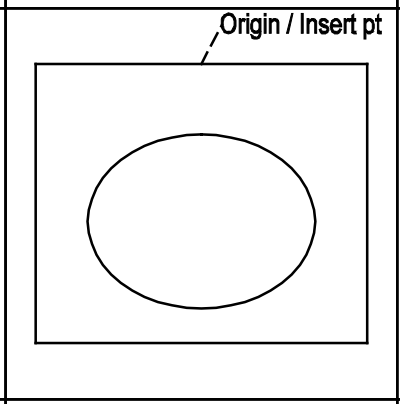
Plumbing: DSHWSH
COMMERCIAL DISHWASHER
Element Type: Symbol



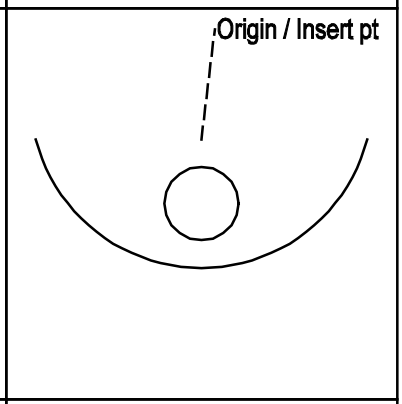
Plumbing: LAVBCK
BACK LAVATORY
Element Type: Symbol



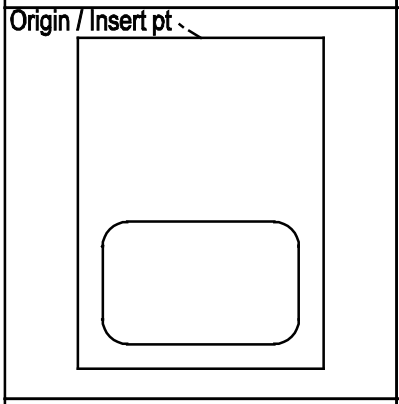
Plumbing: LAVCOR
CORNER LAVATORY
Element Type: Symbol



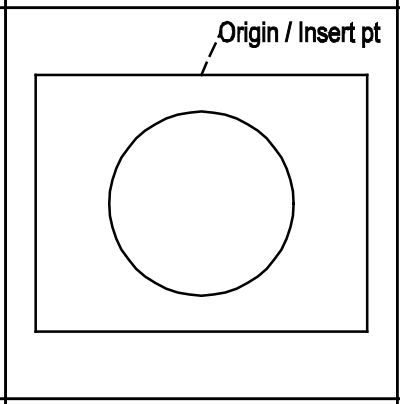
Plumbing: LAVCOU
LAVATORY IN COUNTER
Element Type: Symbol



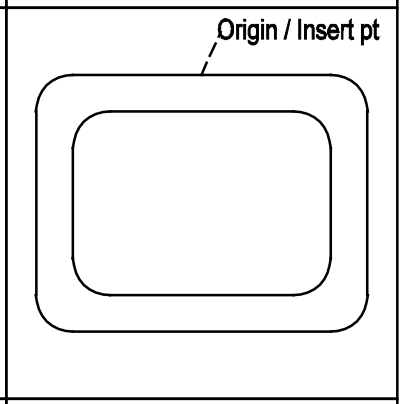
Plumbing: LAVDNT
DENTAL LAVATORY
Element Type: Symbol



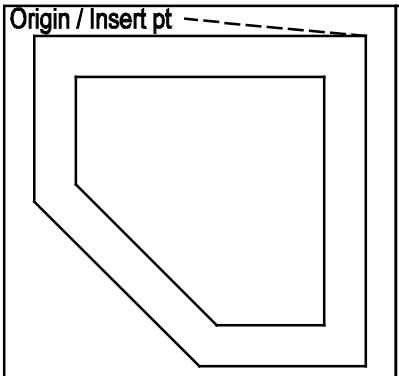
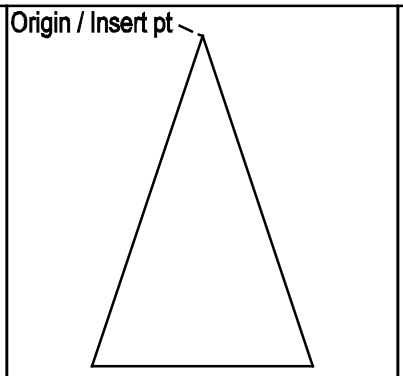
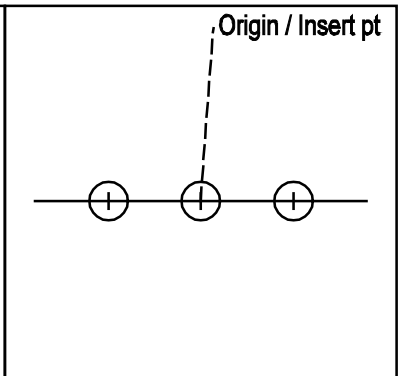
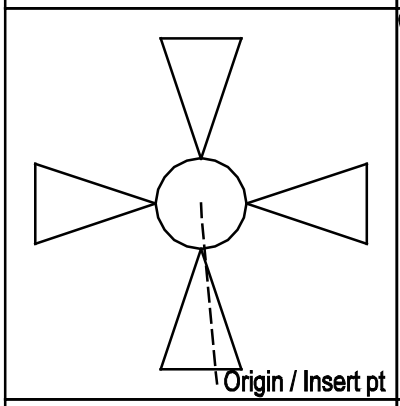
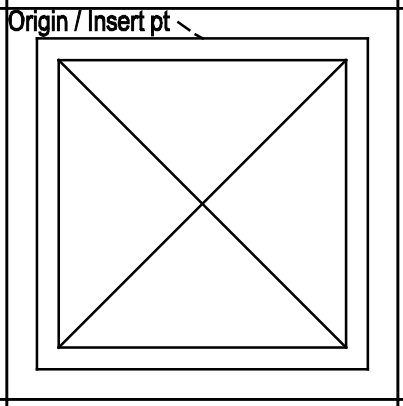
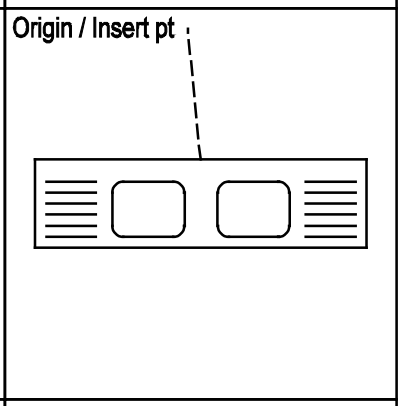
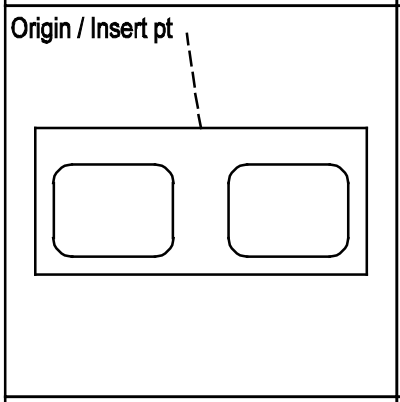
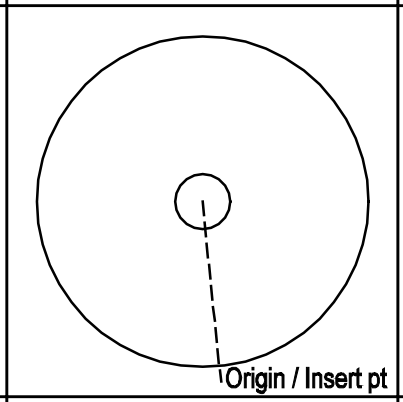
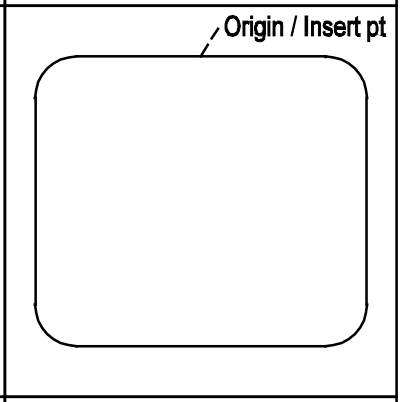
Plumbing: LAVHND
HANDICAPPED LAVATORY
Element Type: Symbol

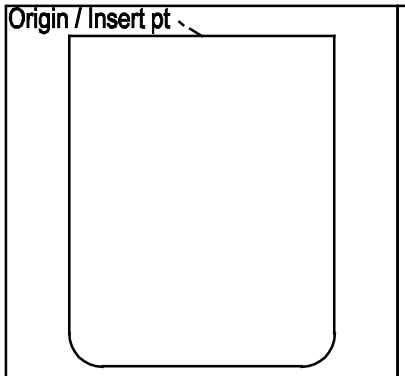
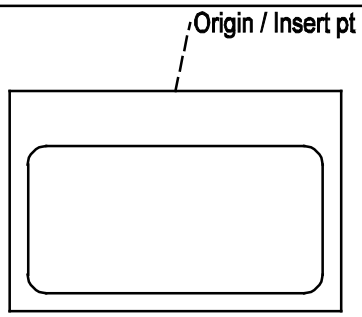
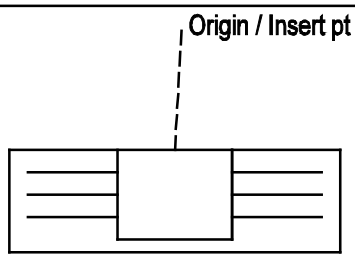
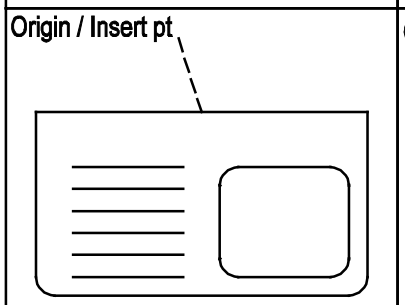
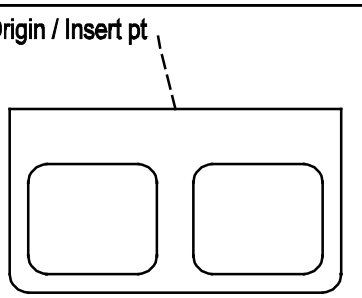
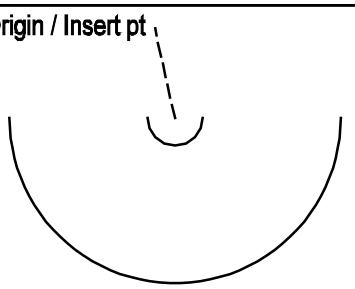
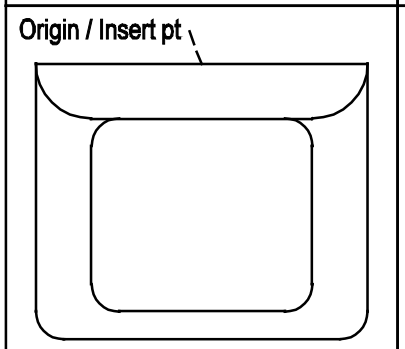
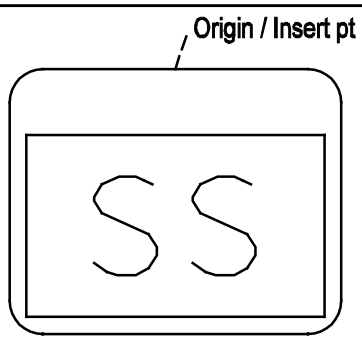
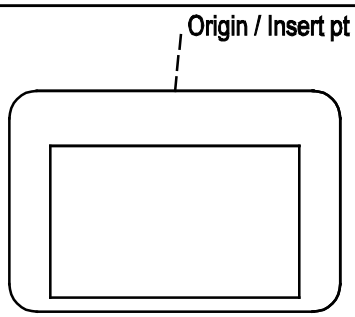


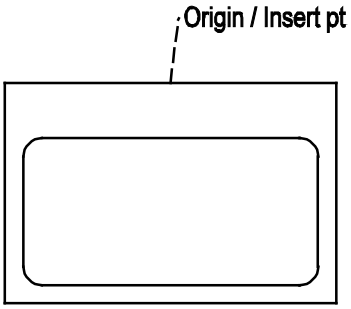
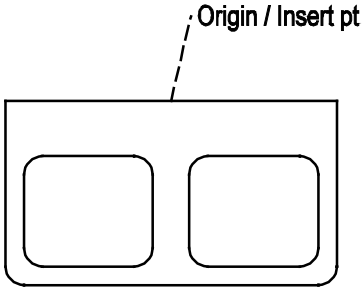
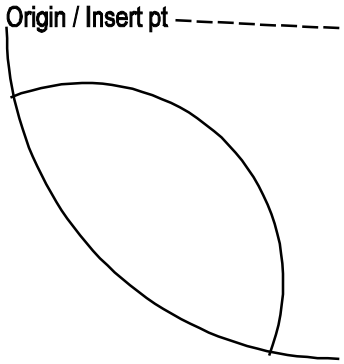
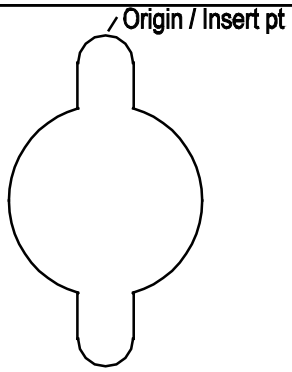
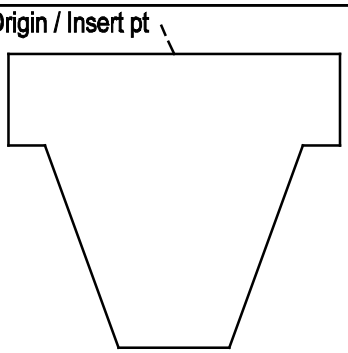
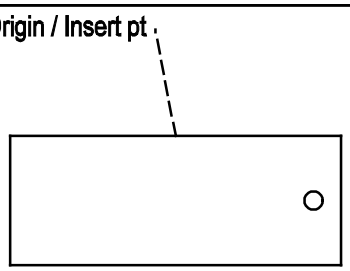
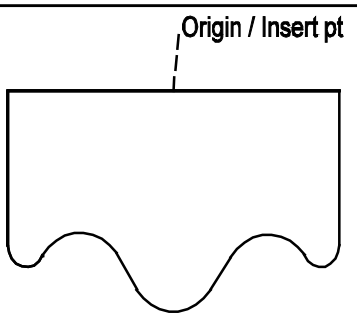
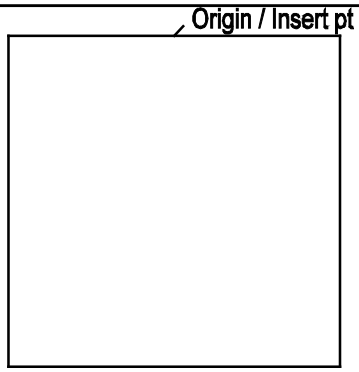
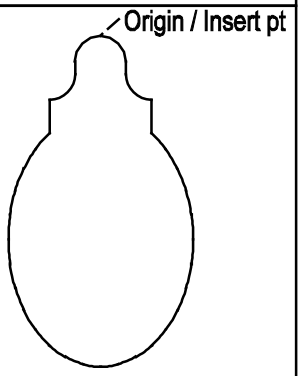
Plumbing: LAVMDM
MEDICAL MANICURE LAVAT
Element Type: Symbol

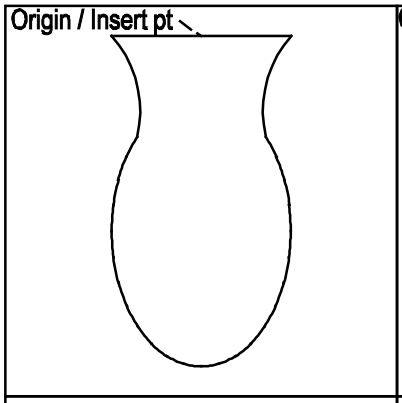
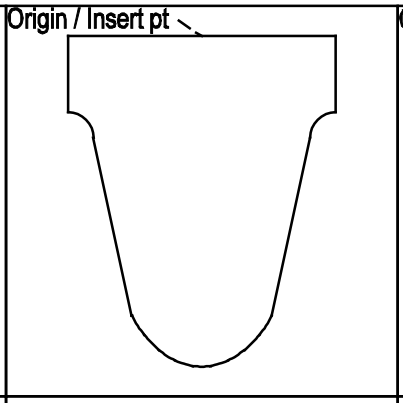
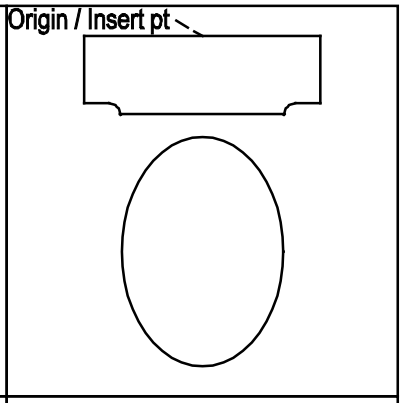
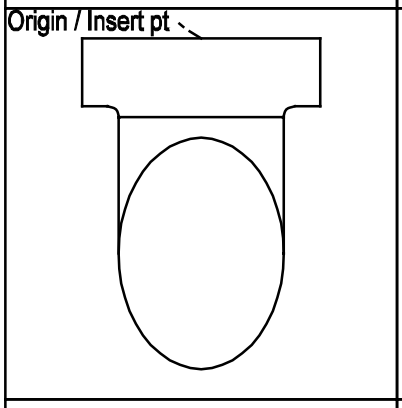
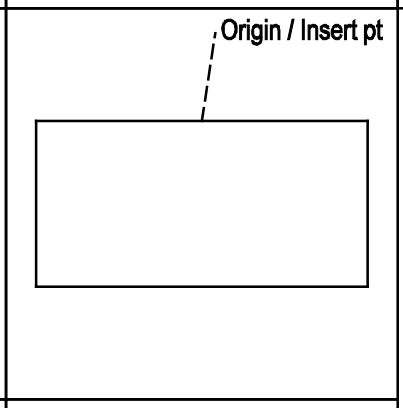


Plumbing: LAVSLB
SLAB TYPE LAVATORY
Element Type: Symbol

		
Plumbing: SHWRCO CORNER SHOWER Element Type: Symbol	Plumbing: SHWRHD SHOWER HEAD Element Type: Symbol	Plumbing: SHWROG SHOWER OVERHEAD GANG Element Type: Symbol
		
Plumbing: SHWRPG SHOWER PEDESTAL GANG Element Type: Symbol	Plumbing: SHWRST SHOWER STALL Element Type: Symbol	Plumbing: SNK2BD DBLE SINK W DRAINBOARD Element Type: Symbol
		
Plumbing: SNK2CT SINK TWO COMPARTMENT T Element Type: Symbol	Plumbing: SNKCWT CIRCULAR WASH TYPE SIN Element Type: Symbol	Plumbing: SNKDSP SINK DISPOSER Element Type: Symbol

		
Plumbing: SNKFRC FLUSHING RIM CLINICAL Element Type: Symbol	Plumbing: SNKGEN GENERAL SINK Element Type: Symbol	Plumbing: SNKKLR KITCH SNK WL AND R DRA Element Type: Symbol
		
Plumbing: SNKLDB SINK W LEFT DRAINBOARD Element Type: Symbol	Plumbing: SNKLTR SINK LAUNDRY TRAY Element Type: Symbol	Plumbing: SNKSCW SEMI CIRCULAR WASH SIN Element Type: Symbol
		
Plumbing: SNKSLP SLOP TYPE SINK Element Type: Symbol	Plumbing: SNKSRV SERVICE SINK Element Type: Symbol	Plumbing: SNKSSC SURGEON SCRUB SINK Element Type: Symbol

		
Plumbing: TRAY1L SINGLE LAUNDRY TRAY Element Type: Symbol	Plumbing: TRAY2L DOUBLE LAUNDRY TRAYS Element Type: Symbol	Plumbing: URNLCO CORNER TYPE URINAL Element Type: Symbol
		
Plumbing: URNLPD PEDESTAL TYPE URINAL Element Type: Symbol	Plumbing: URNLST URINAL STALL Element Type: Symbol	Plumbing: URNLTR TROUGH TYPE URINAL Element Type: Symbol
		
Plumbing: URNLWH WALL HUNG URINAL Element Type: Symbol	Plumbing: WCELWH ELEC WALLHUNG WATER CO Element Type: Symbol	Plumbing: WCFVFO F.V. FLR OUTLET WATERC Element Type: Symbol

		
Plumbing: WCFVWH F.V. WALL HUNG WATERCL Element Type: Symbol	Plumbing: WCITNK INTEGRAL TANK WATERCLO Element Type: Symbol	Plumbing: WCTANK TANK TYPE WATERCLOSET Element Type: Symbol
		
Plumbing: WCWHTN WALL HUNG TANK WATERCL Element Type: Symbol	Plumbing: WSHRBP BEDPAN WASHER Element Type: Symbol	

14 Mechanical Lines Library

ATV	BBD	BR
Mechanical: AIRRLF AIR RELIEF LINE Element Type: Line	Mechanical: BOILBD BOILER BLOW DOWN Element Type: Line	Mechanical: BRINER BRINE RETURN Element Type: Line
B	A	PC
Mechanical: BRINES BRINE SUPPLY Element Type: Line	Mechanical: CMPAIR COMPRESSED AIR Element Type: Line	Mechanical: CONDP PUMPED CONDENSATE Element Type: Line
C	CR	CWR
Mechanical: CONDWF CONDENSER WATER FLOW Element Type: Line	Mechanical: CONDWR CONDENSER WATER RETURN Element Type: Line	Mechanical: CWR CHILLED WATER RETURN Element Type: Line

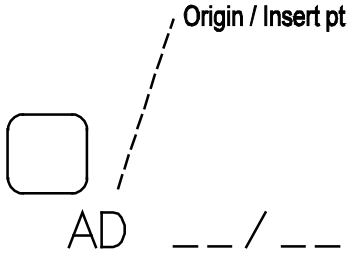
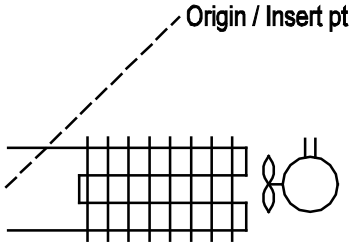
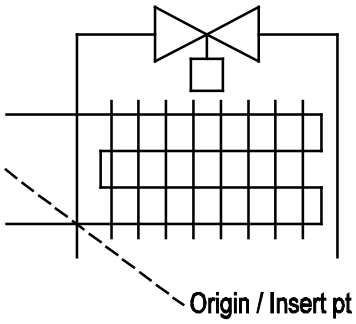
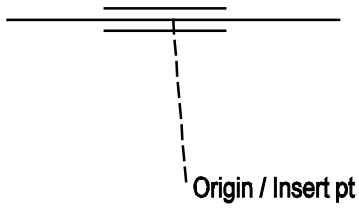
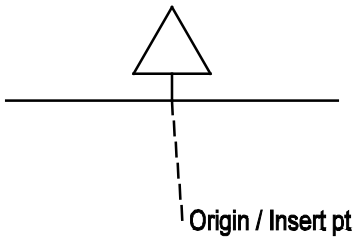
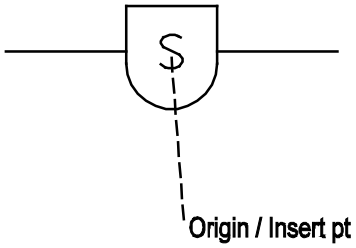
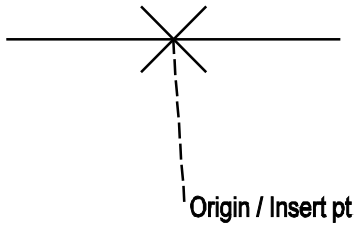
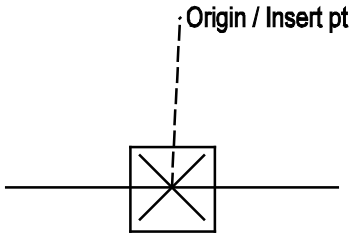
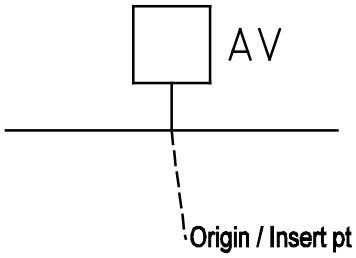
CWS	D	DTR
Mechanical: CWS CHILLED WATER SUPPLY Element Type: Line	Mechanical: DRAIN DRAIN Element Type: Line	Mechanical: DTR DUAL TEMPERATURE RETUR Element Type: Line
DTS	FILL	FOD
Mechanical: DTS DUAL TEMPERATURE SUPPL Element Type: Line	Mechanical: FILL FILL LINE Element Type: Line	Mechanical: FUELOD FUEL OIL DISCHARGE Element Type: Line
FOF	FOG	FOR
Mechanical: FUELOF FUEL OIL FLOW Element Type: Line	Mechanical: FUELOG FUEL OIL GAUGE Element Type: Line	Mechanical: FUELOR FUEL OIL RETURN Element Type: Line

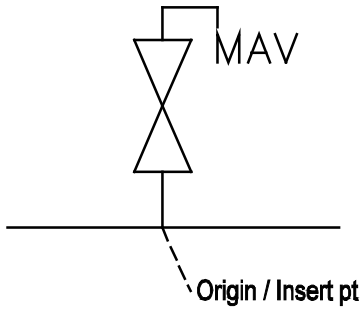
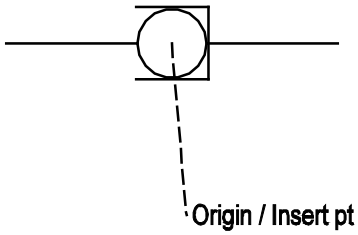
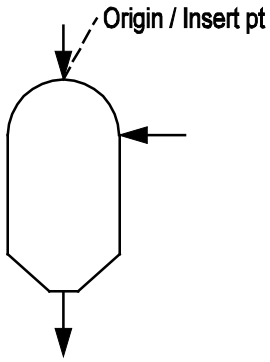
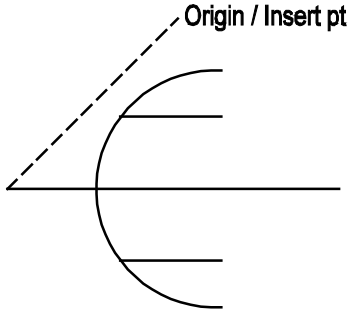
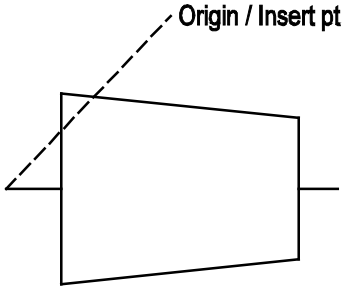
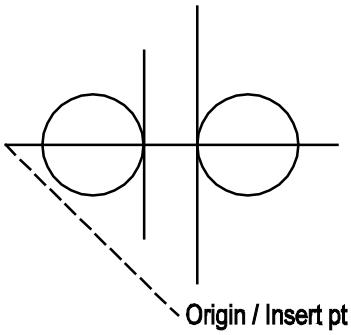
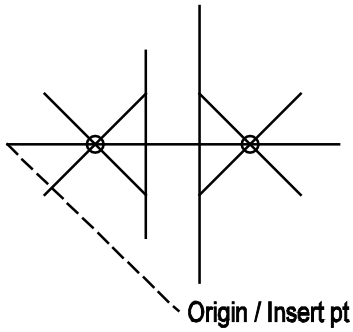
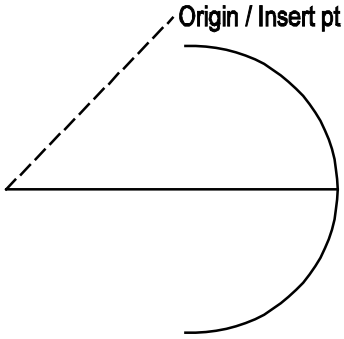
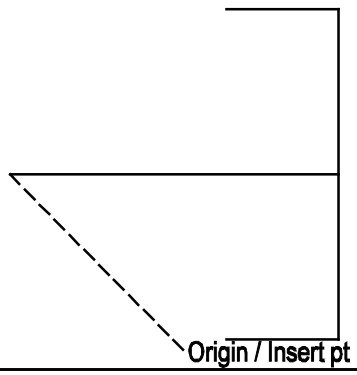
FOS	FOV	GHR
Mechanical: FUELOS FUEL OIL SUCTION SUPPL Element Type: Line	Mechanical: FUELOT FUEL OIL TANK VENT Element Type: Line	Mechanical: GHR GLYCOL HEATING RETURN Element Type: Line
GHS	HPC	HTWR
Mechanical: GHS GLYCOL HEATING SUPPLY Element Type: Line	Mechanical: HPCNDR HIGH PRES CONDENSATE R Element Type: Line	Mechanical: HTHWR HIGH TEMP HOT WATER RE Element Type: Line
HTWS	H	LPC
Mechanical: HTHWS HIGH TEMP HOT WATER SU Element Type: Line	Mechanical: HUMID HUMIDIFICATION LINE Element Type: Line	Mechanical: LPCNDR LOW PRES CONDENSATE RE Element Type: Line

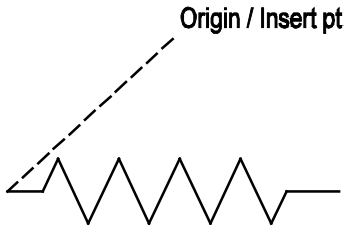
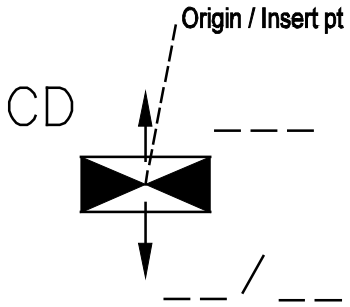
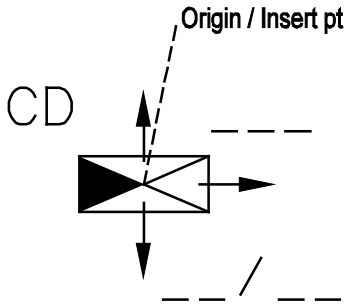
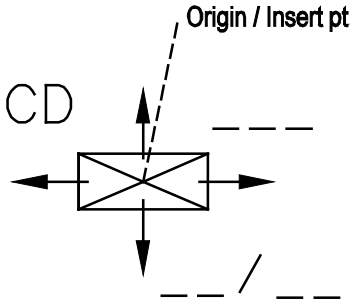
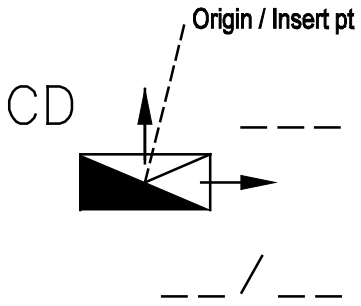
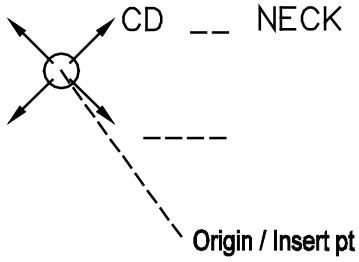
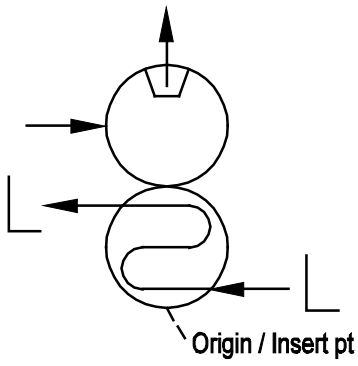
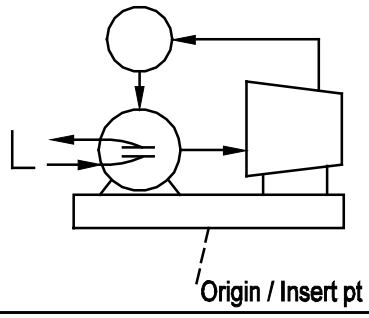
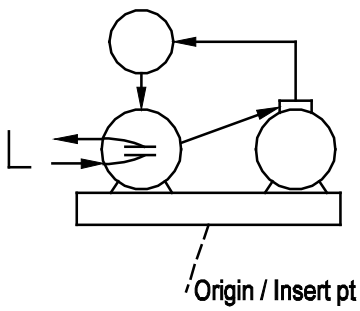
HWR	HWS	MU
Mechanical: LTHWR LOW TEMP HOT WATER RET Element Type: Line	Mechanical: LTHWS LOW TEMP HOT WATER SUP Element Type: Line	Mechanical: MAKEUP MAKE UP WATER Element Type: Line
MPC	MTWR	MTWS
Mechanical: MPCNDR MED PRES CONDENSATE RE Element Type: Line	Mechanical: MTHWR MED TEMP HOT WATER RET Element Type: Line	Mechanical: MTHWS MED TEMP HOT WATER SUP Element Type: Line
RD	RL	RS
Mechanical: REFRD REFRIGERANT DISCHARGE Element Type: Line	Mechanical: REFRL REFRIGERANT LIQUID Element Type: Line	Mechanical: REFRS REFRIGERANT SUCTION Element Type: Line

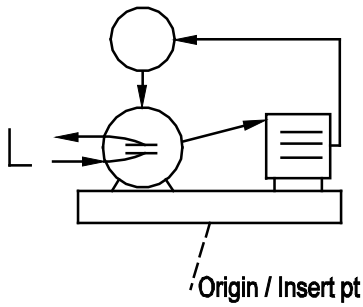
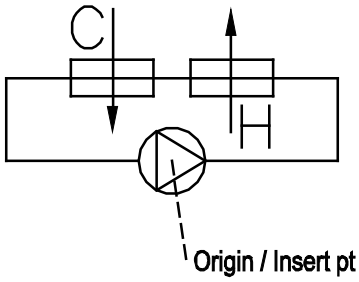
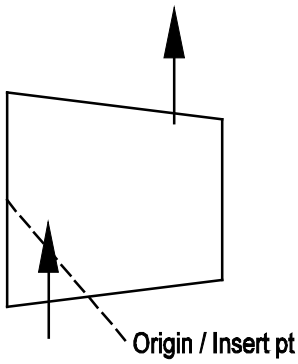
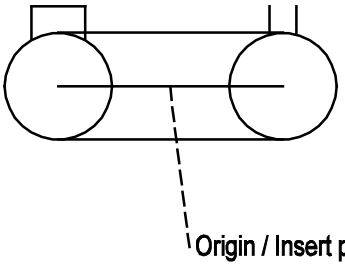
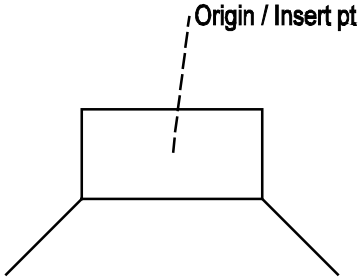
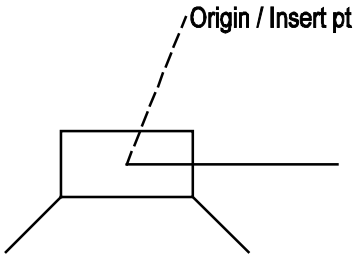
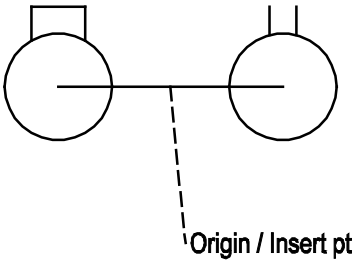
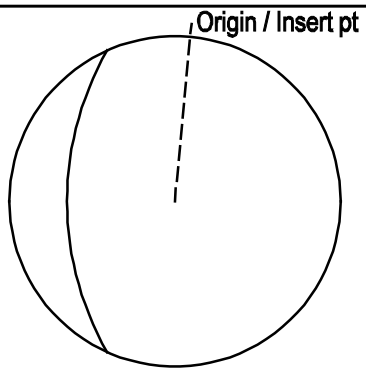
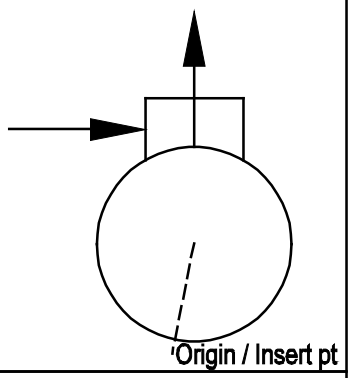
HPS	LPS	MPS
Mechanical: STEAMH HIGH PRESSURE STEAM Element Type: Line	Mechanical: STEAML LOW PRESSURE STEAM Element Type: Line	Mechanical: STEAMM MED PRESSURE STEAM Element Type: Line
VAC	VPD	
Mechanical: VACAIR VACUUM AIR Element Type: Line	Mechanical: VACPD VACUUM PUMP DISCHARGE Element Type: Line	

14 Mechanical Symbols Library

		
Mechanical: ACCDOR DCTWRK ACESS DR VERT H Element Type: Symbol	Mechanical: ACCFFA AIRCOOLDCONDENFINNDFOR Element Type: Symbol	Mechanical: ACCFS AIRCOOLEDCONDFINNEDSTA Element Type: Symbol
		
Mechanical: AGUIDE ALIGNMENT GUIDE Element Type: Symbol	Mechanical: AIRELM AIR ELIMINATOR Element Type: Symbol	Mechanical: AIRSEP AIR SEPARATOR Element Type: Symbol
		
Mechanical: ANCHRI ANCHOR INTERMEDIATE Element Type: Symbol	Mechanical: ANCHRM ANCHOR MAIN Element Type: Symbol	Mechanical: AVENTA AUTOMATIC AIR VENT Element Type: Symbol

		
Mechanical: AVENTM MANUAL AIR VENT Element Type: Symbol	Mechanical: BALLJT BALL JOINT Element Type: Symbol	Mechanical: BARCND BAROMETRIC CONDENSER Element Type: Symbol
		
Mechanical: BUSHBS BUSHING BELL SPIGOT Element Type: Symbol	Mechanical: BUSHSC BUSHING SCREWED Element Type: Symbol	Mechanical: BUSHSO BUSHING SOLDERED Element Type: Symbol
		
Mechanical: BUSHWE BUSHING WELDED Element Type: Symbol	Mechanical: CAPBS CAP BELL SPIGOT Element Type: Symbol	Mechanical: CAPSC CAP SCREWED Element Type: Symbol

		
Mechanical: CAPTUB CAPILLARY TUBE Element Type: Symbol	Mechanical: CD2WAY 2WY CEILNGDIFFUSR RECT Element Type: Symbol	Mechanical: CD3WAY 3WY CEILNGDIFFUSR RECT Element Type: Symbol
		
Mechanical: CD4WAY 4WY CEILNGDIFFUSR RECT Element Type: Symbol	Mechanical: CDCB CEILING DIFFUSR CORNER Element Type: Symbol	Mechanical: CDRND ROUND CEILING DIFFUSER Element Type: Symbol
		
Mechanical: CHUABS ABSORPTION CHILLING UN Element Type: Symbol	Mechanical: CHUCHL CENTRIFUGAL CHILLING U Element Type: Symbol	Mechanical: CHUREC RECIPROCATING CHILLING Element Type: Symbol

		
Mechanical: CHUROT ROTARY SCREW CHILLING Element Type: Symbol	Mechanical: CLLOOP COIL LOOP Element Type: Symbol	Mechanical: CMPCEN CENTRIFUGAL COMPRESSOR Element Type: Symbol
		
Mechanical: CMPMSR MOTORSEALDRECIPROCATCO Element Type: Symbol	Mechanical: CMPOCB OPEN CRANK RECIPROC CO Element Type: Symbol	Mechanical: CMPOCR OPENCRANKCASERECIPRCOM Element Type: Symbol
		
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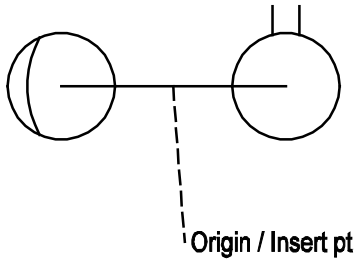	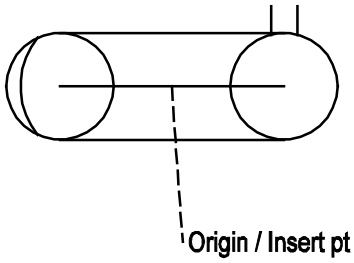	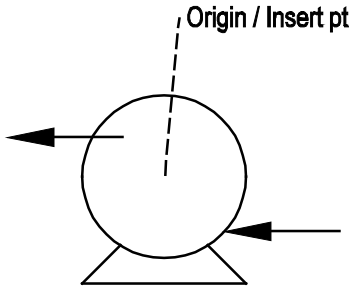
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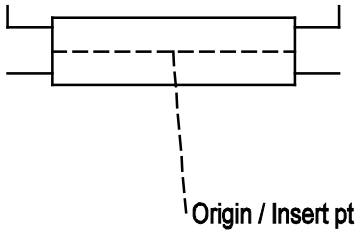	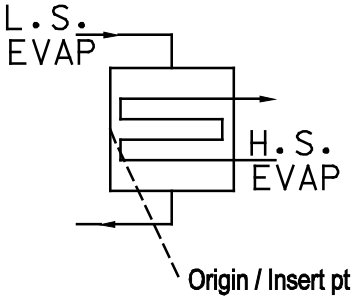	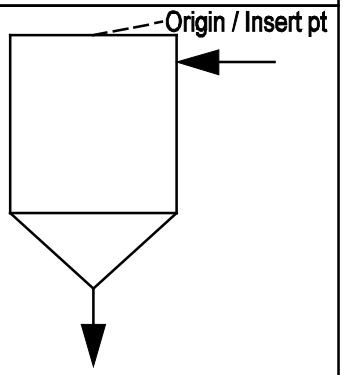
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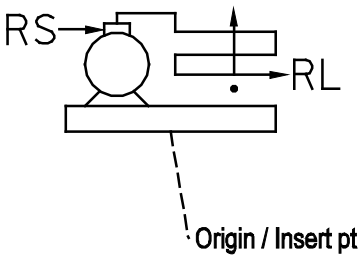	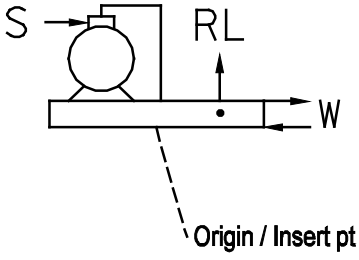	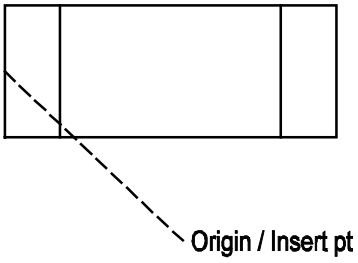
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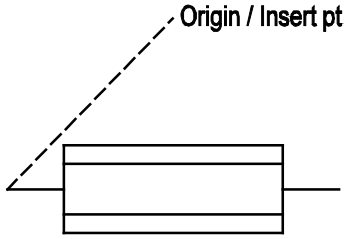
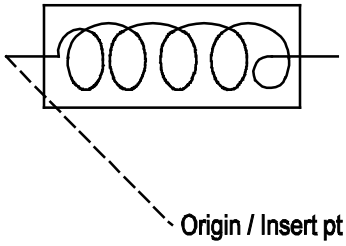
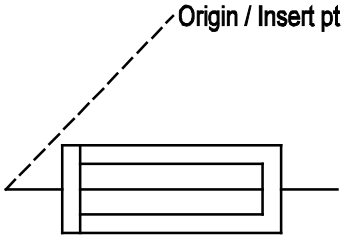
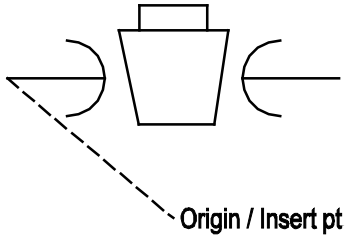
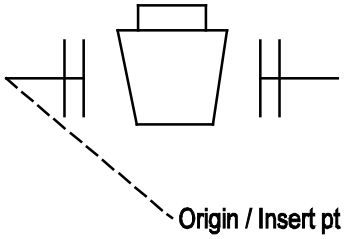
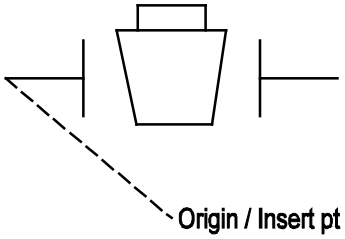
		
Mechanical: CNWCCT H20COOLDCONDSRCONCENTT Element Type: Symbol	Mechanical: CNWCSC WATERCOOLDCONDSRSHELLC Element Type: Symbol	Mechanical: CNWCST H20COOLEDCONDENSRSHELL Element Type: Symbol
		
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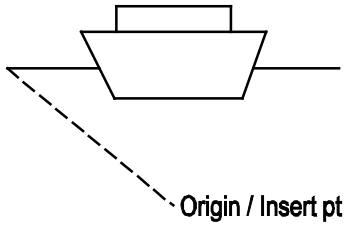
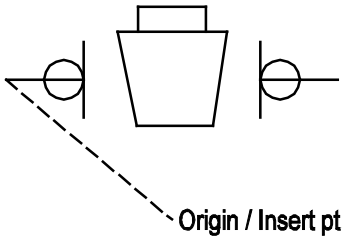
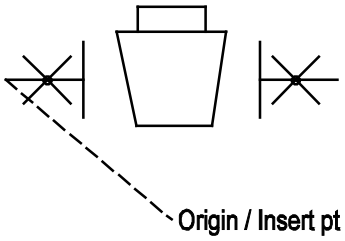
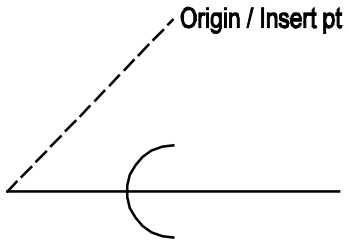
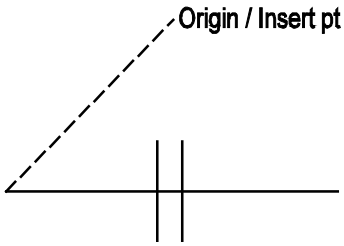
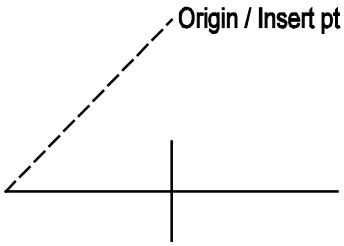
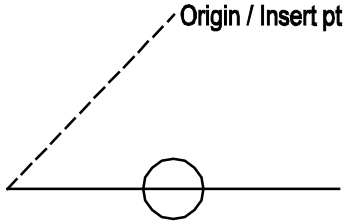
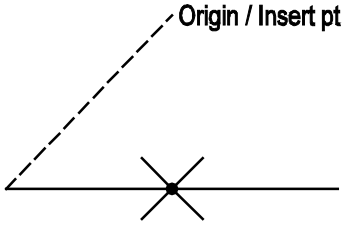
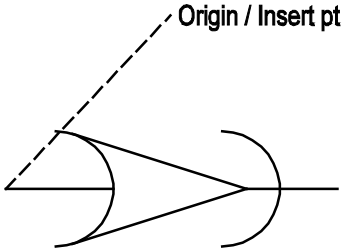
		
Mechanical: COCKSH SQUARE HEAD COCK Element Type: Symbol	Mechanical: COCKSO COCK SOLDERED Element Type: Symbol	Mechanical: COCKWE COCK WELDED Element Type: Symbol

		
Mechanical: CPJBS CONNPIPEJNTBELL SPIGOT Element Type: Symbol	Mechanical: CPJFL CONN PIPE JOINT FLANGE Element Type: Symbol	Mechanical: CPJSC CONN PIPE JOINT SCREWE Element Type: Symbol
		
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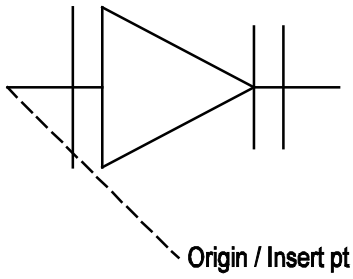
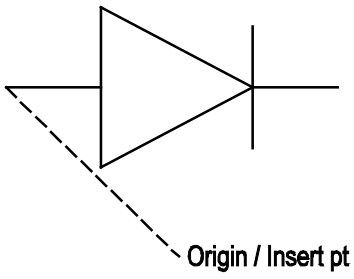
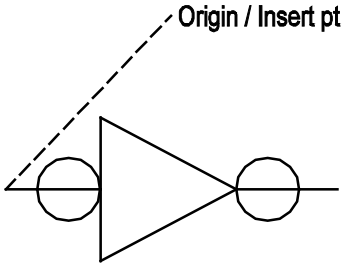
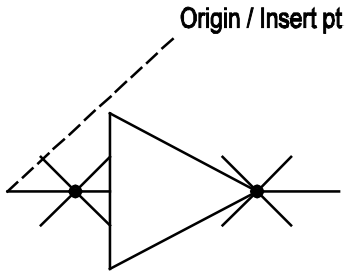
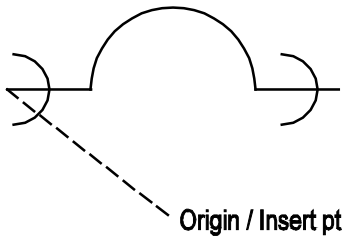
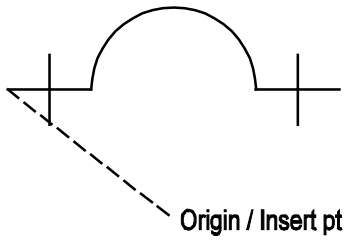
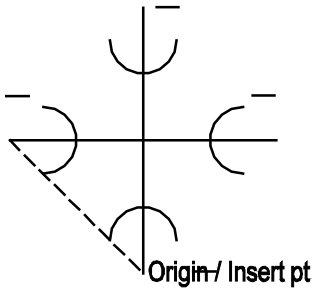
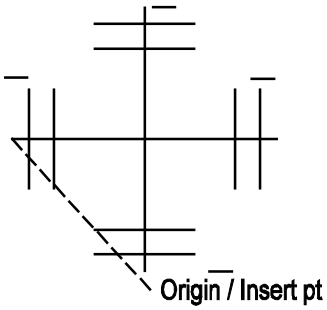
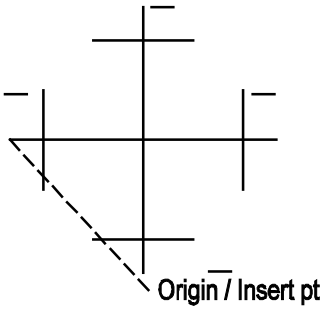
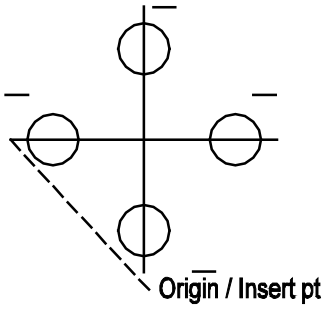
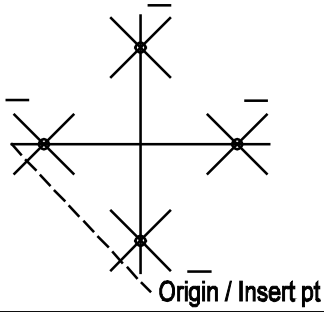
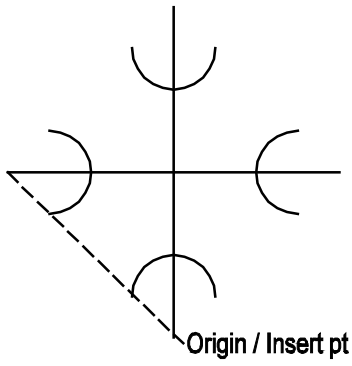
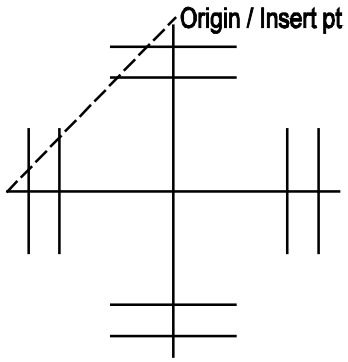
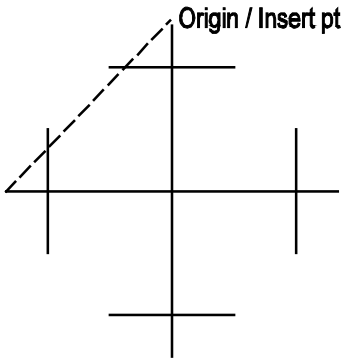
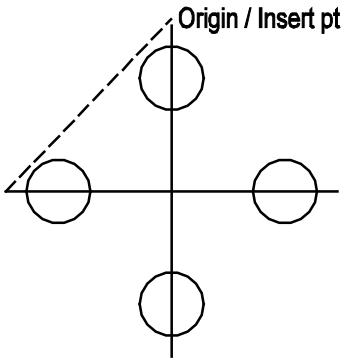
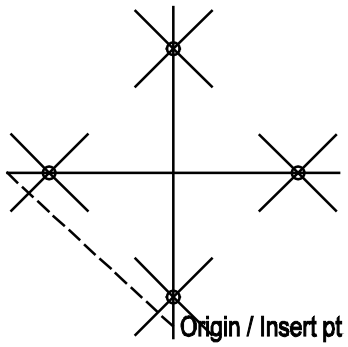
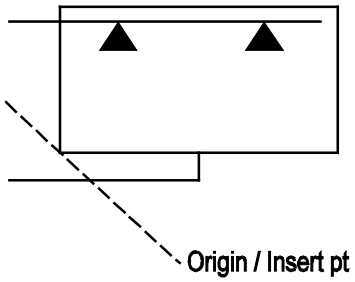
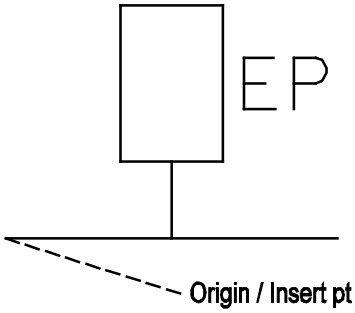
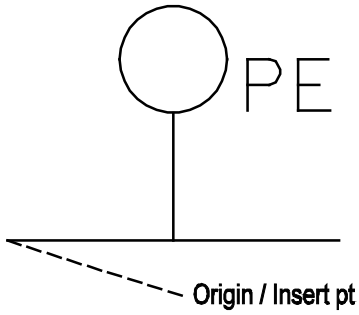
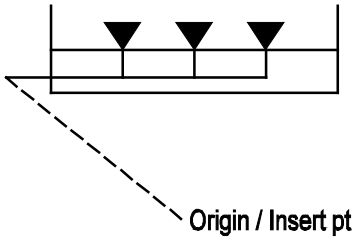
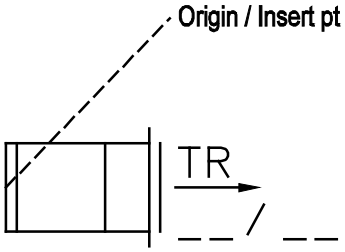
		
Mechanical: CREDFL CONCENTRIC REDUCER FLA Element Type: Symbol	Mechanical: CREDSC CONCENTRIC REDUCER SCR Element Type: Symbol	Mechanical: CREDSO CONCENTRIC REDUCER SOL Element Type: Symbol

		
Mechanical: CREDWE CONCENTRIC REDUCER WEL Element Type: Symbol	Mechanical: CROVBS CROSSOVER BELL SPIGOT Element Type: Symbol	Mechanical: CROVSC CROSSOVER SCREWED Element Type: Symbol
		
Mechanical: CRSRBS REDUCING CROSS BELL SP Element Type: Symbol	Mechanical: CRSRFL REDUCING CROSS FLANGED Element Type: Symbol	Mechanical: CRSRSC REDUCING CROSS SCREWED Element Type: Symbol
		
Mechanical: CRSRSO REDUCING CROSS SOLDERE Element Type: Symbol	Mechanical: CRSRWE REDUCING CROSS WELDED Element Type: Symbol	Mechanical: CRSSBS STRGHT SZ CROSS BELL S Element Type: Symbol

		
Mechanical: CRSSFL STRAIGHT SIZE CROSS FL Element Type: Symbol	Mechanical: CRSSSC STRAIGHT SIZE CROSS SC Element Type: Symbol	Mechanical: CRSSSO STRAIGHTSIZE CROSS SOL Element Type: Symbol
		
Mechanical: CRSSWE STRAIGHT SIZE CROSS WE Element Type: Symbol	Mechanical: CTOWER COOLING TOWER Element Type: Symbol	Mechanical: CTRLEP ELECTRIC PNEUMATIC CON Element Type: Symbol
		
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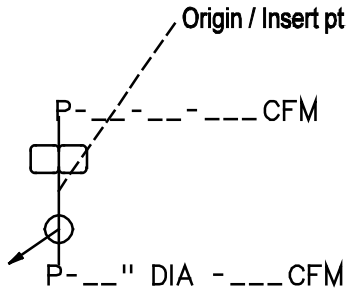
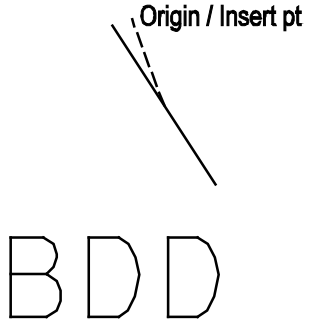
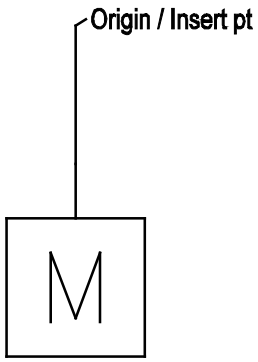
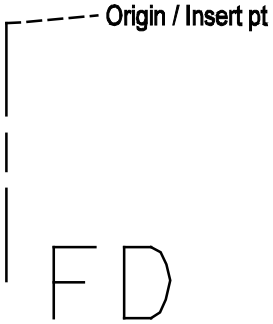
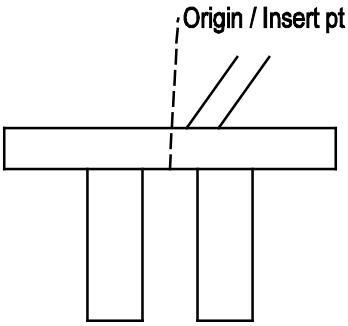
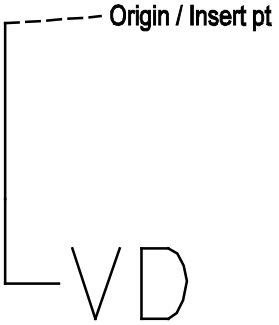
		
Mechanical: DMPAPL ADJUSTABLE DAMPER PLAQ Element Type: Symbol	Mechanical: DMPBD BACK DRAFT DAMPER Element Type: Symbol	Mechanical: DMPEOC ELECT OPERATED DAMPER Element Type: Symbol
		
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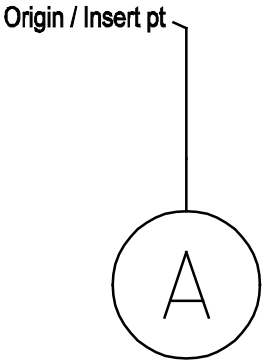
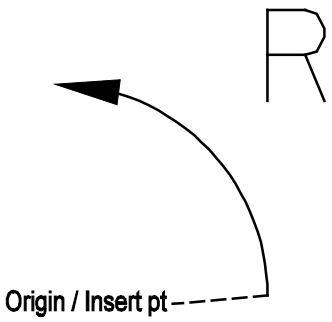
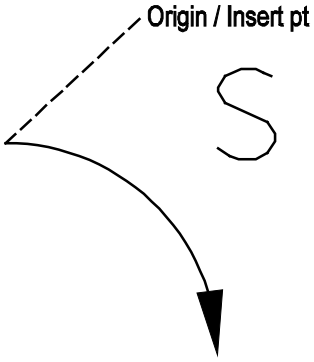
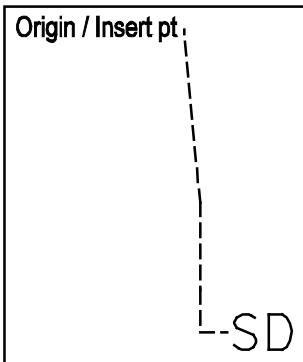
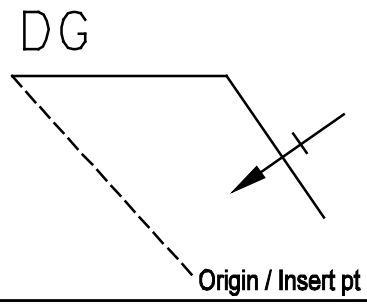
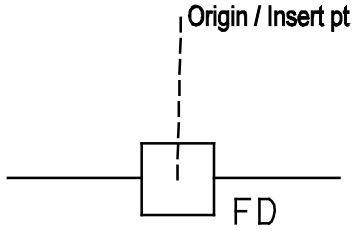
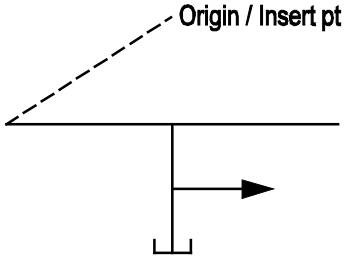
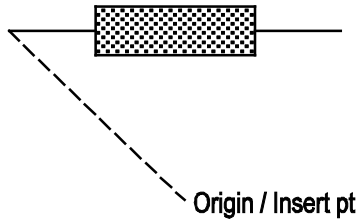
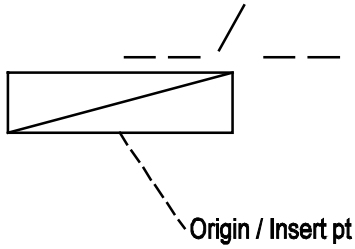
		
Mechanical: DMPPOC PNEUMATICOPERDAMPERCNT Element Type: Symbol	Mechanical: DMPSBR DAMPERSTNDRDBRANCHRETU Element Type: Symbol	Mechanical: DMPSBS DAMPERSTANDARDBRANCHSU Element Type: Symbol

		
Mechanical: DMPSMK SMOKE DAMPER Element Type: Symbol	Mechanical: DORGRL DOOR GRILLE Element Type: Symbol	Mechanical: DRAINF FLOOR DRAIN Element Type: Symbol
		
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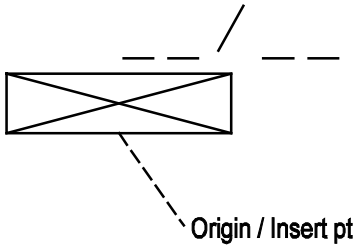
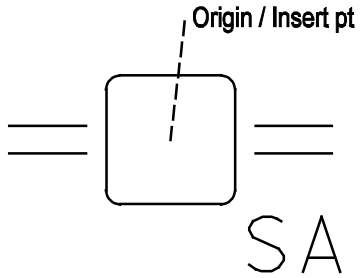
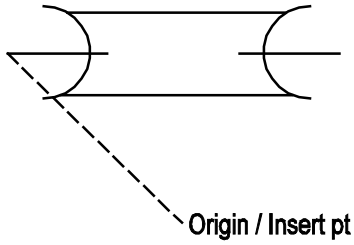
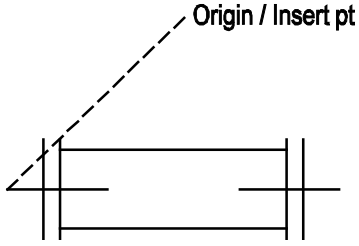
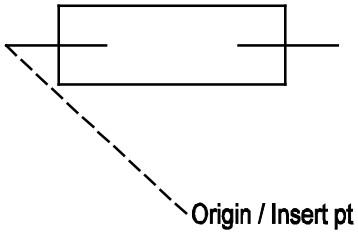
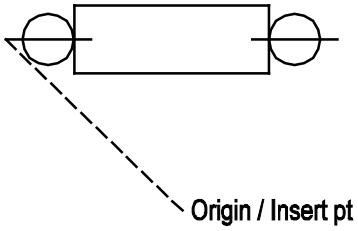
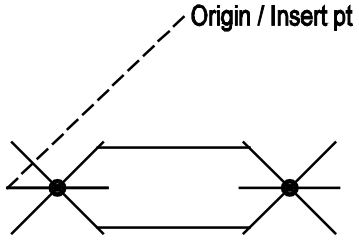
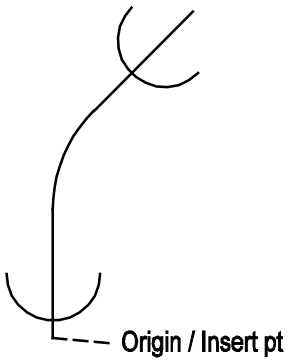
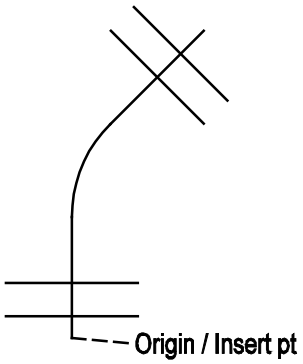
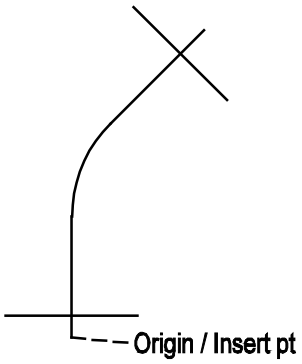
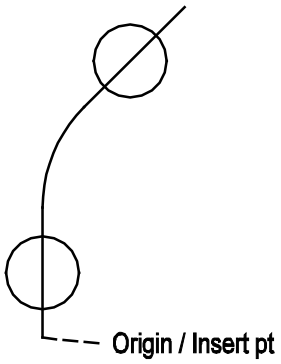
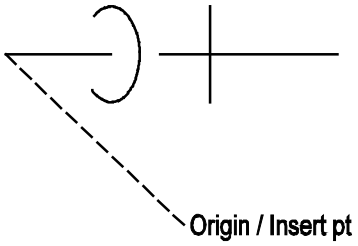
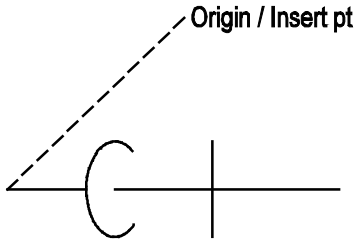
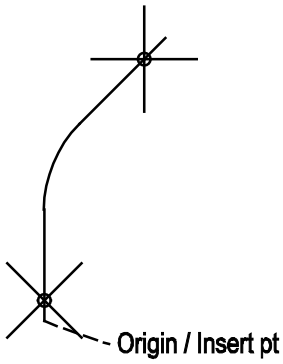
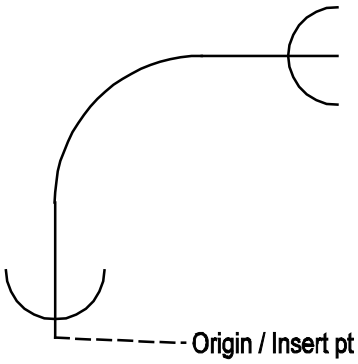
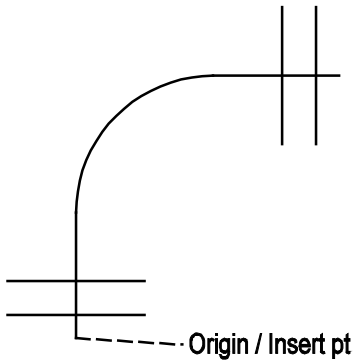
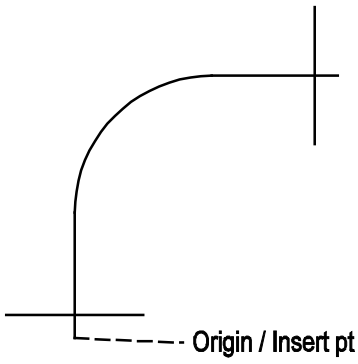
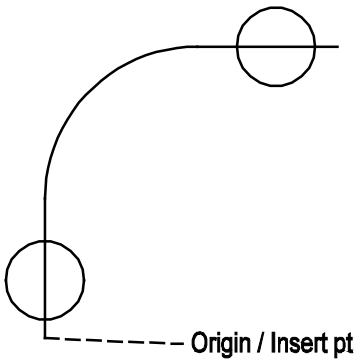
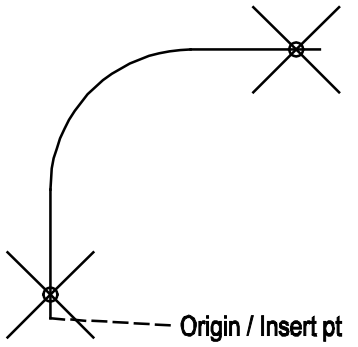
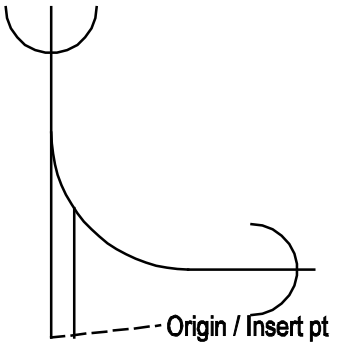
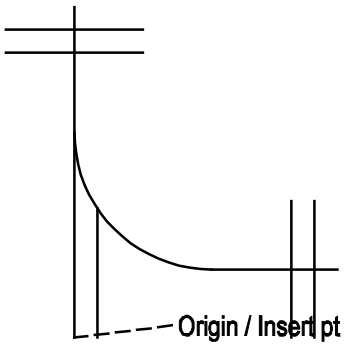
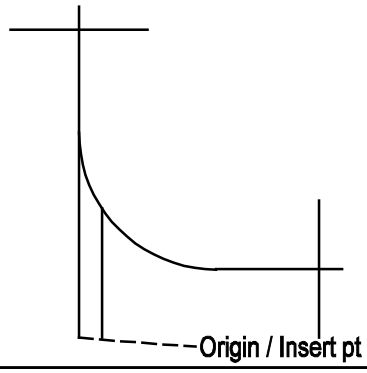
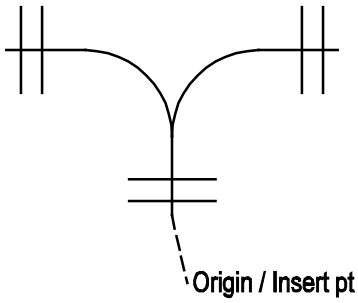
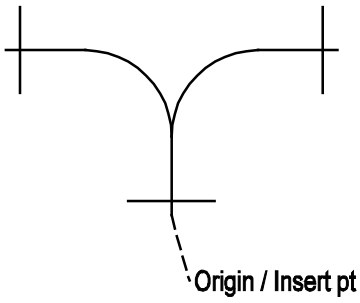
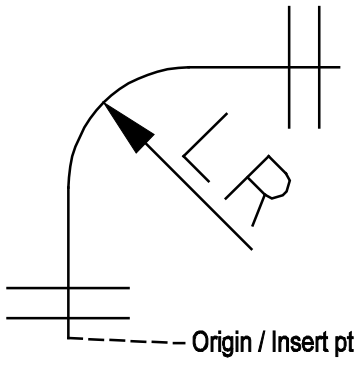
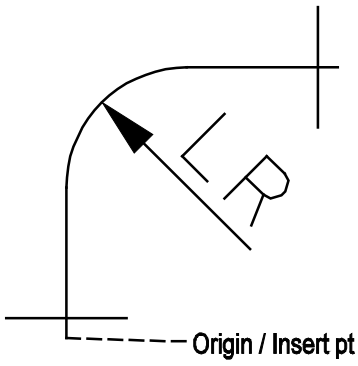
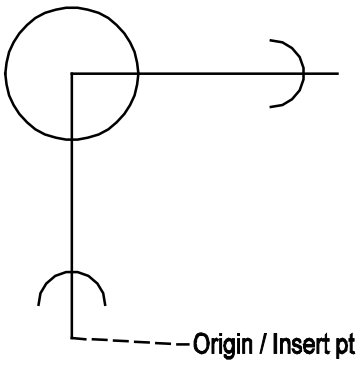
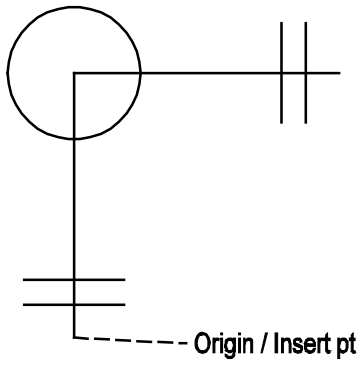
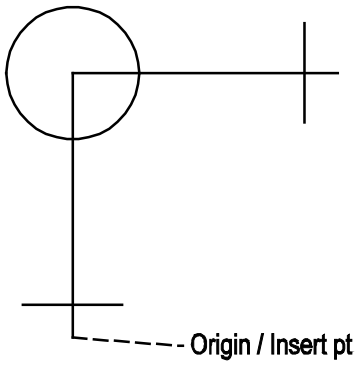
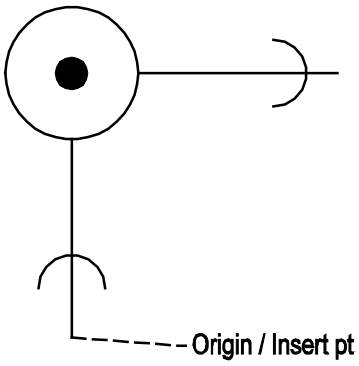
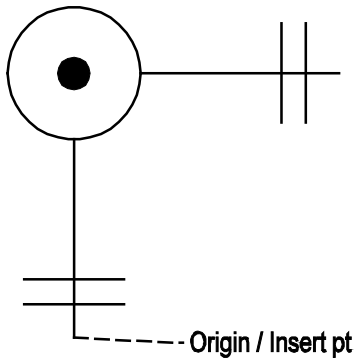
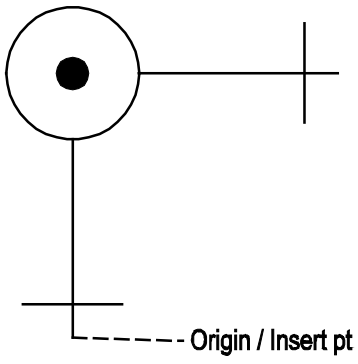
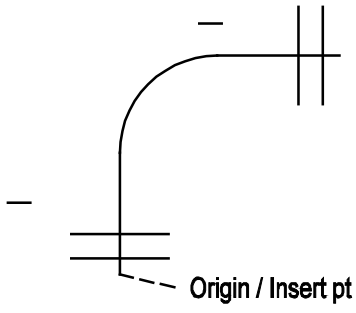
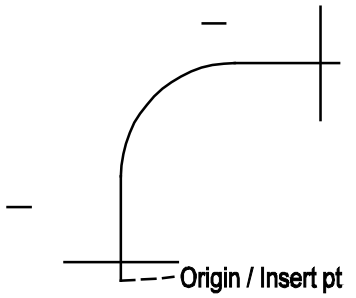
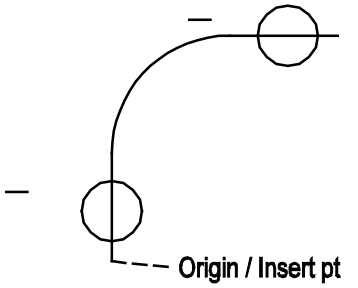
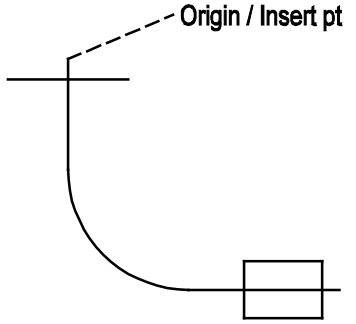
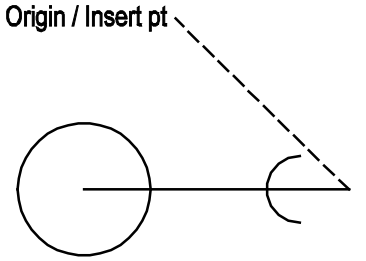
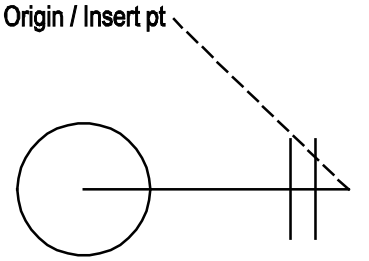
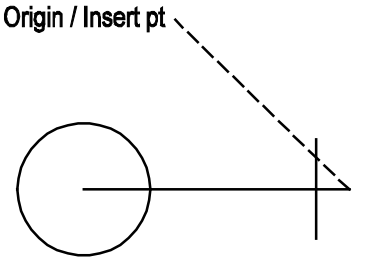
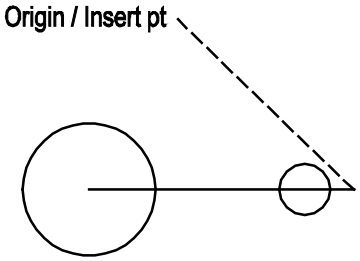
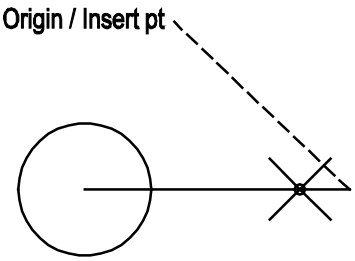
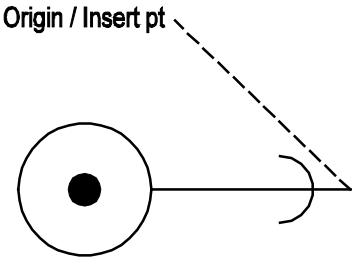
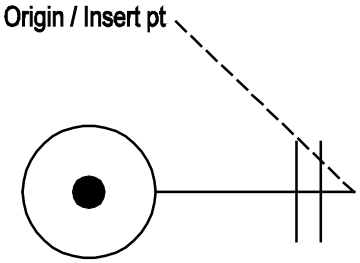
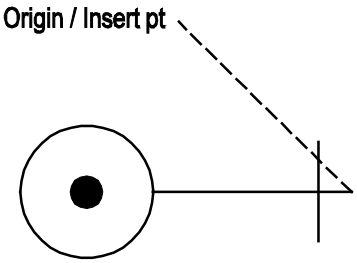
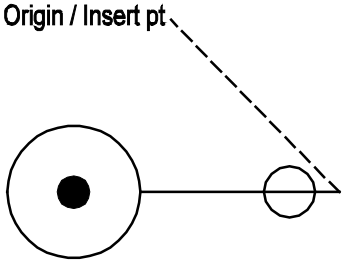
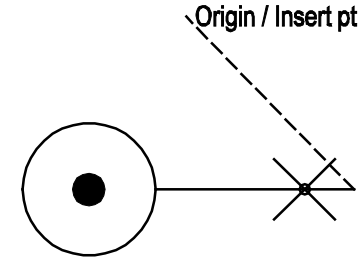
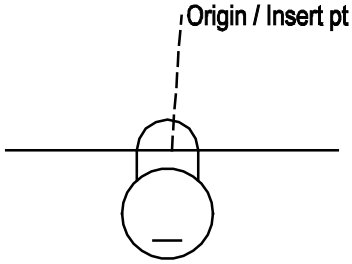
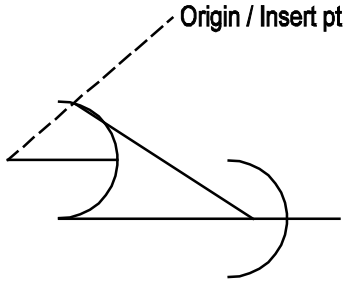
		
Mechanical: DSPSPR POS PRES SPPLY DUCT SE Element Type: Symbol	Mechanical: DUCTSA DUCTWORK SOUND ATTENUA Element Type: Symbol	Mechanical: EBJBS EXPNSN BELL JNT BELL S Element Type: Symbol

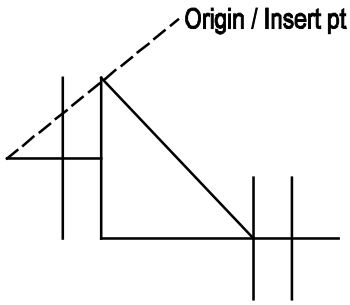
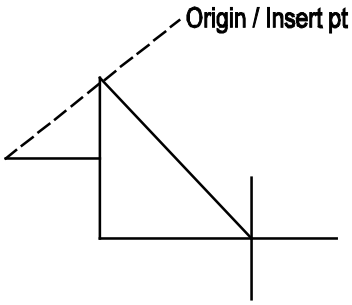
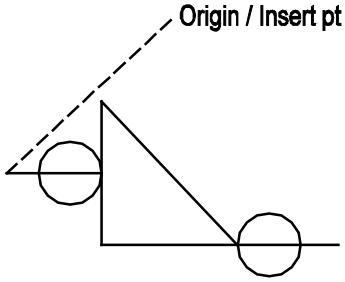
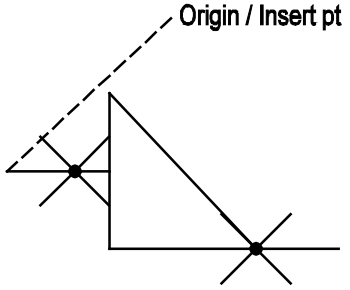
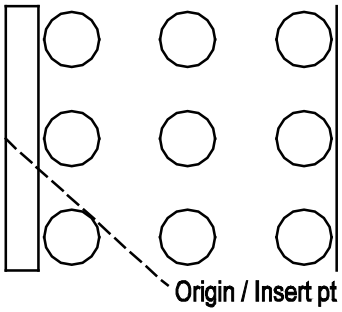
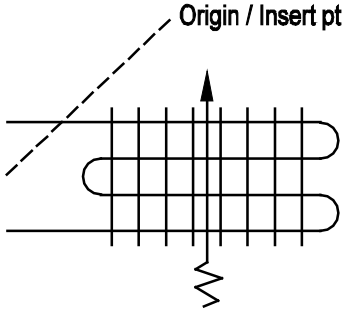
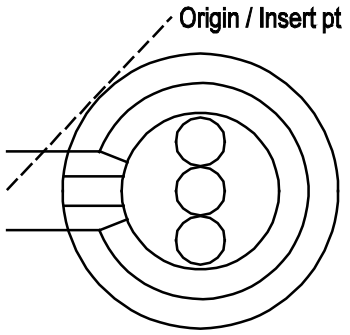
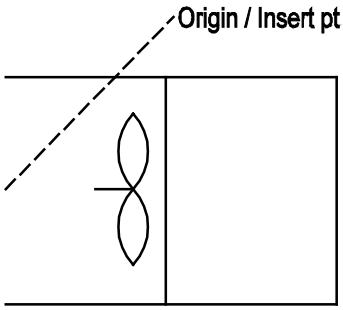
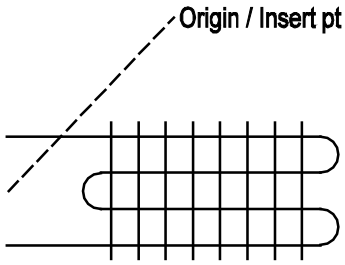
		
Mechanical: EJFL EXPANSION JOINT FLANGE Element Type: Symbol	Mechanical: EJSC EXPANSION JOINT SCREWE Element Type: Symbol	Mechanical: EJSO EXPANSION JOINT SOLDER Element Type: Symbol
		
Mechanical: EJWE EXPANSION JOINT WELDED Element Type: Symbol	Mechanical: EL45BS 45 DEGREE ELBOW BELL S Element Type: Symbol	Mechanical: EL45FL 45 DEGREE ELBOW FLANGE Element Type: Symbol
		
Mechanical: EL45SC 45 DEGREE ELBOW SCREWE Element Type: Symbol	Mechanical: EL45SO 45 DEGREE ELBOW SOLDER Element Type: Symbol	Mechanical: EL45TD 45 DEGREE ELBOW TURNED Element Type: Symbol

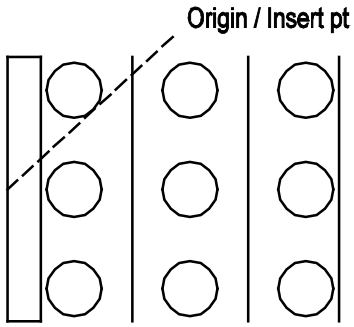
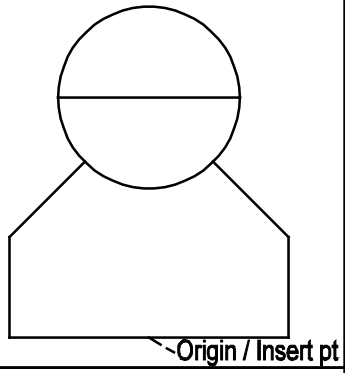
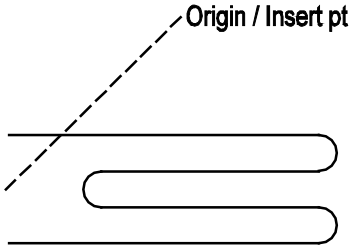
		
Mechanical: EL45TU 45 DEGREE ELBOW TURNED Element Type: Symbol	Mechanical: EL45WE 45 DEGREE ELBOW WELDED Element Type: Symbol	Mechanical: EL90BS 90 DEGREE ELBOW BELL S Element Type: Symbol
		
Mechanical: EL90FL 90 DEGREE ELBOW FLANGE Element Type: Symbol	Mechanical: EL90SC 90 DEGREE ELBOW SCREWE Element Type: Symbol	Mechanical: EL90SO 90 DEGREE ELBOW SOLDER Element Type: Symbol
		
Mechanical: EL90WE 90 DEGREE ELBOW WELDED Element Type: Symbol	Mechanical: ELBBS BASE ELBOW BELL SPIGOT Element Type: Symbol	Mechanical: ELBFL BASE ELBOW FLANGED Element Type: Symbol

		
Mechanical: ELBSC BASE ELBOW SCREWED Element Type: Symbol	Mechanical: ELDBFL DOUBLE BRANCH ELBOW FL Element Type: Symbol	Mechanical: ELDBSC DOUBLE BRANCH ELBOW SC Element Type: Symbol
		
Mechanical: ELLRFL LONG RADIUS ELBOW FLAN Element Type: Symbol	Mechanical: ELLRSC LONG RADIUS ELBOW SCRE Element Type: Symbol	Mechanical: ELODBS SIDEOUT ELBBELSPGT OUT Element Type: Symbol
		
Mechanical: ELODFL SIDEOTLET ELB FLNGDOUT Element Type: Symbol	Mechanical: ELODSC SIDEOUTLELBOWSCRWDOUTL Element Type: Symbol	Mechanical: ELOUBS SIDEOUTL ELB BEL SPGTO Element Type: Symbol

		
Mechanical: ELOUFL SIDEOUTLELBOWFLANGEDOU Element Type: Symbol	Mechanical: ELOUSC SIDEOUTLELBOWSCREWDOUT Element Type: Symbol	Mechanical: ELRDFL REDUCING ELBOW FLANGED Element Type: Symbol
		
Mechanical: ELRDSC REDUCING ELBOW SCREWED Element Type: Symbol	Mechanical: ELRDSO REDUCING ELBOW SOLDERE Element Type: Symbol	Mechanical: ELSTRT STREET ELBOW SCREWED Element Type: Symbol
		
Mechanical: ELTDBS TURNED DOWN ELBOW BELL Element Type: Symbol	Mechanical: ELTDFL TURNED DWN ELBOW FLANG Element Type: Symbol	Mechanical: ELTDSC TURNED DOWN ELBOW SCRE Element Type: Symbol

		
Mechanical: ELTDSO TURNED DOWN ELBOW SOLD Element Type: Symbol	Mechanical: ELTDWE TURNED DOWN ELBOW WELD Element Type: Symbol	Mechanical: ELTUBS TURNED UP ELBOW BELL S Element Type: Symbol
		
Mechanical: ELTUFL TURNED UP ELBOW FLANGE Element Type: Symbol	Mechanical: ELTUSC TURNED UP ELBOW SCREWE Element Type: Symbol	Mechanical: ELTUSO TURNED UP ELBOW SOLDER Element Type: Symbol
		
Mechanical: ELTUWE TURNED UP ELBOW WELDED Element Type: Symbol	Mechanical: ENGINE ENGINE INDICATE FUEL Element Type: Symbol	Mechanical: EREDBS ECCENTRIC RDCER BELL S Element Type: Symbol

		
Mechanical: EREDFL ECCENTRIC REDUCER FLAN Element Type: Symbol	Mechanical: EREDSC ECCENTRIC REDUCER SCRW Element Type: Symbol	Mechanical: EREDSO ECCENTRIC REDUCER SOLD Element Type: Symbol
		
Mechanical: EREDWE ECCENTRIC REDUCER WELD Element Type: Symbol	Mechanical: EVBTGA BARETUBE GRAVITY AIR E Element Type: Symbol	Mechanical: EVFC FORCEDCONVECTIONEVAPOR Element Type: Symbol
		
Mechanical: EVFCC FINNEDCIRCULCEILINGEVA Element Type: Symbol	Mechanical: EVFCCU FORCDCONVECTIONCOOLUNI Element Type: Symbol	Mechanical: EVFCNC FINNED COIL NAT CONVEE Element Type: Symbol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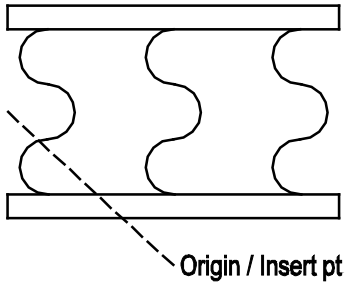
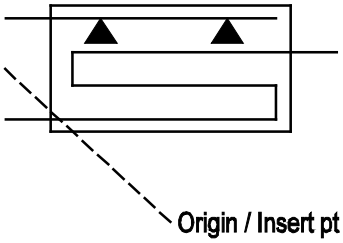
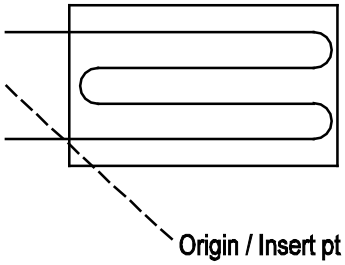
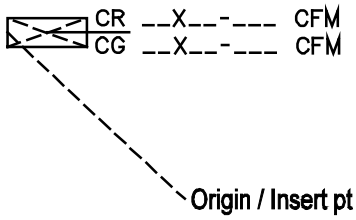
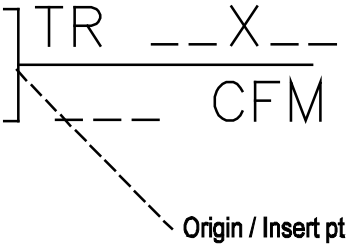
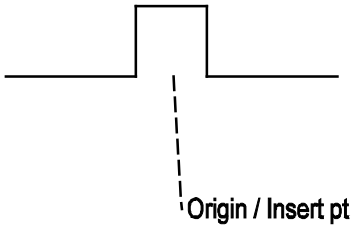
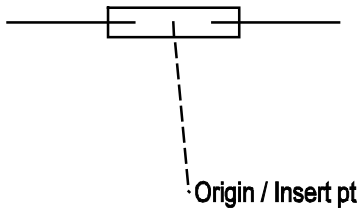
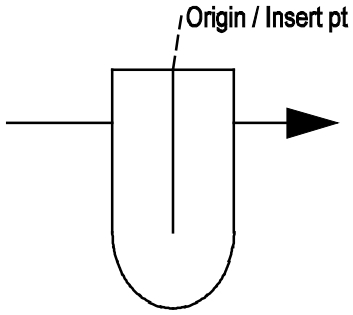
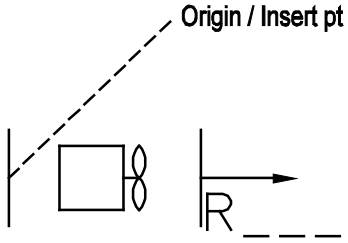
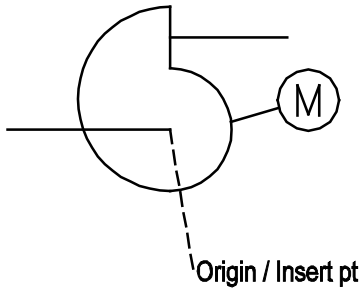
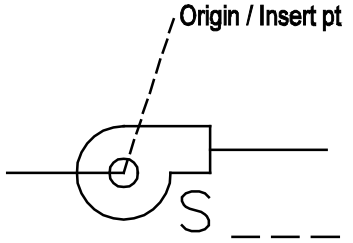
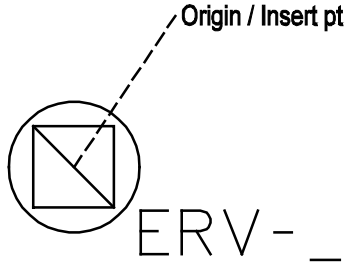
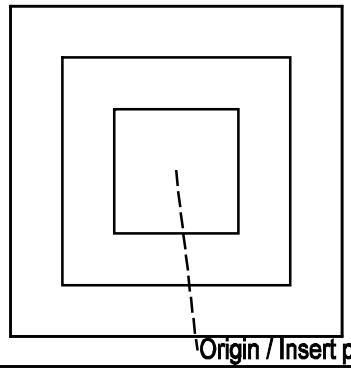
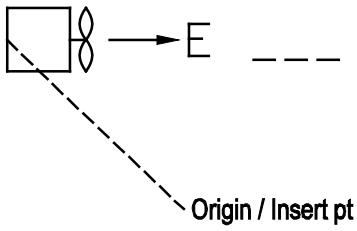
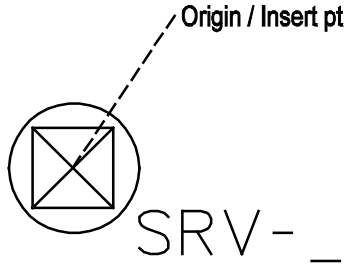
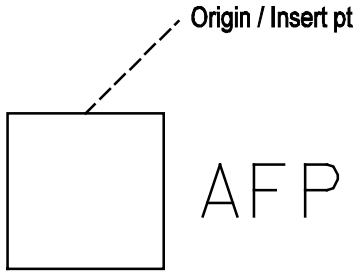
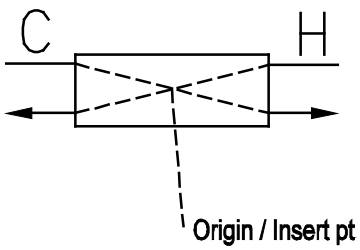
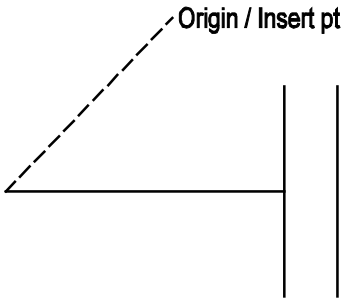
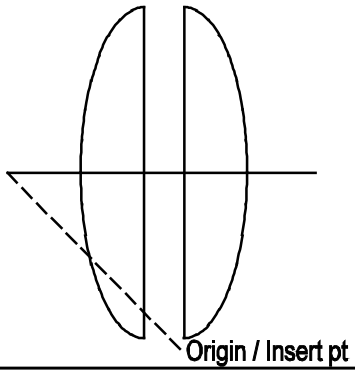
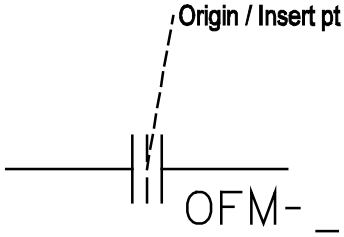
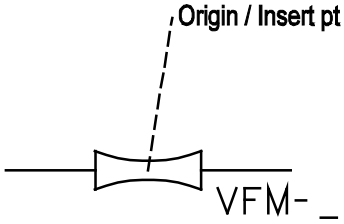
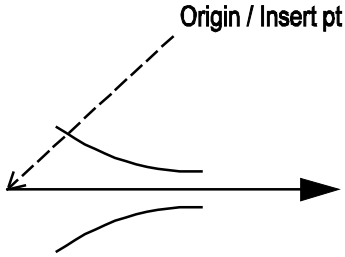
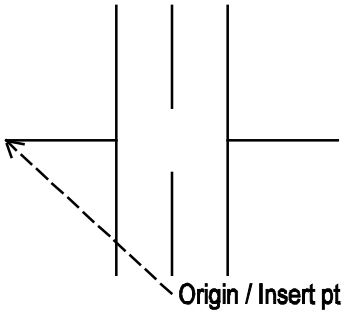
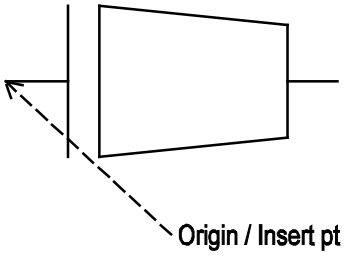
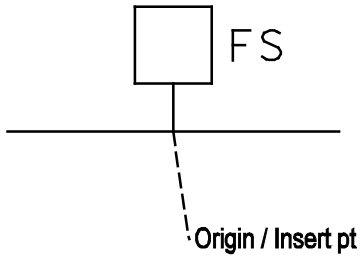
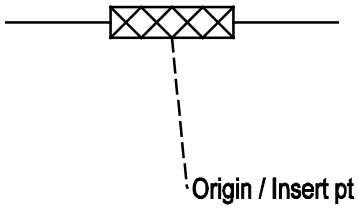
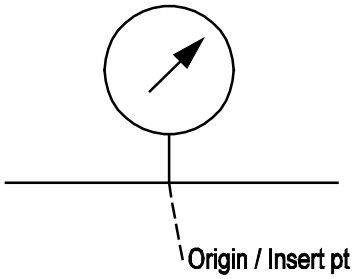
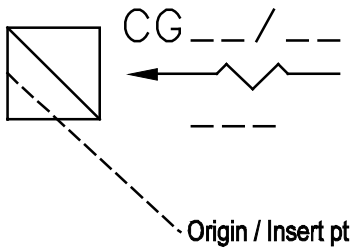
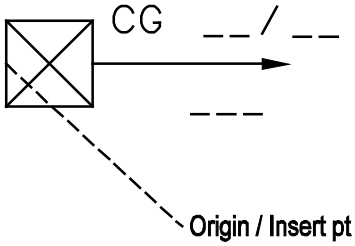
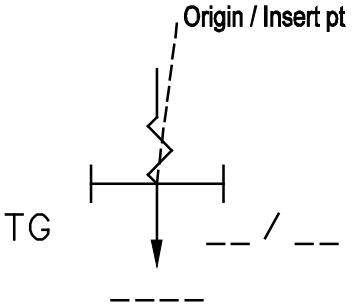
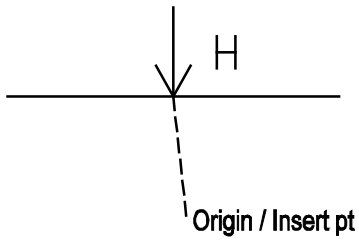
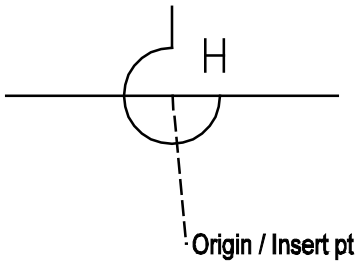
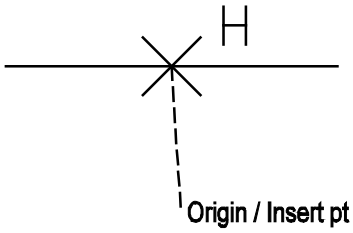
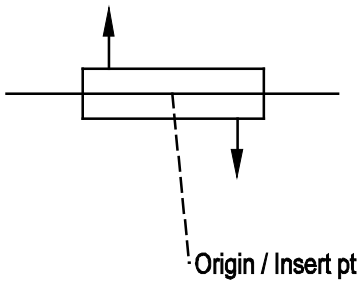
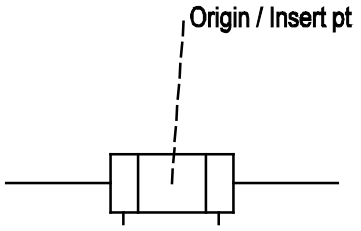
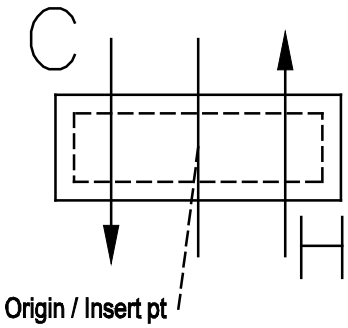
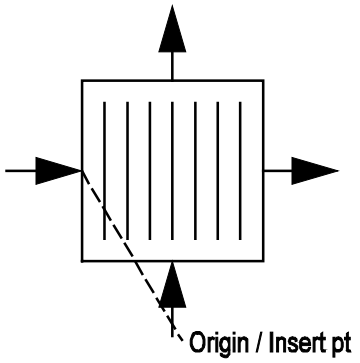
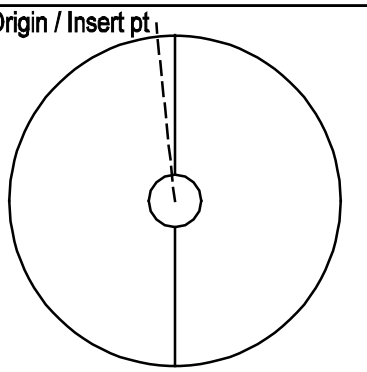
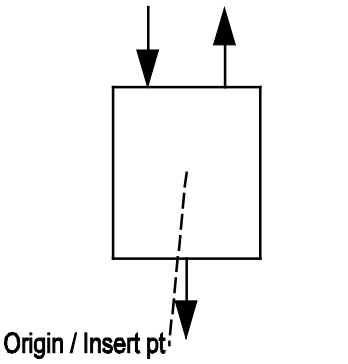
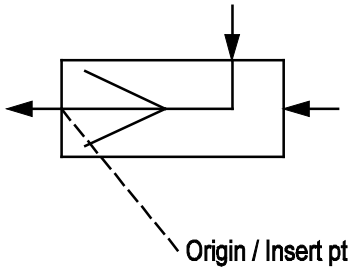
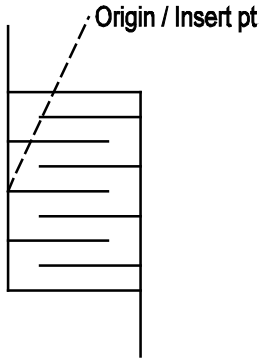
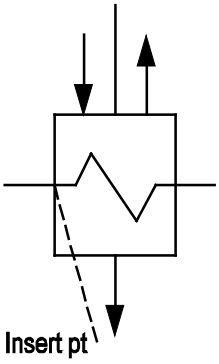
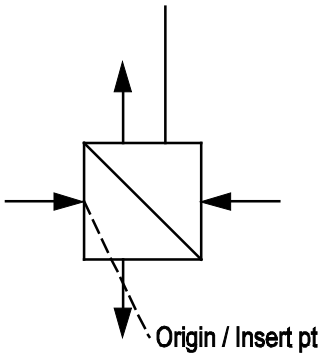
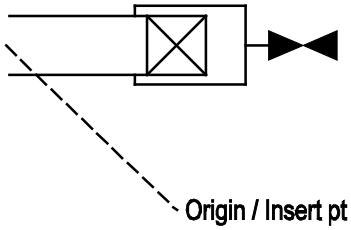
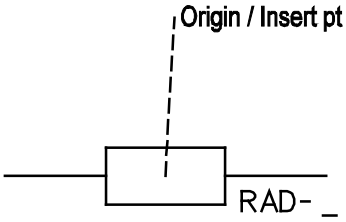
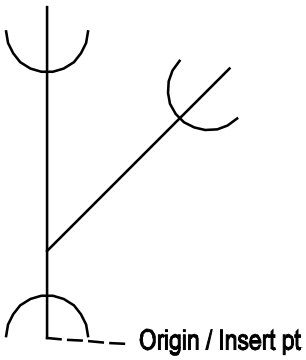
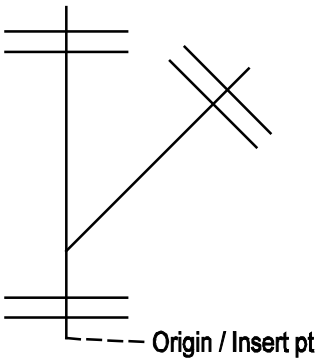
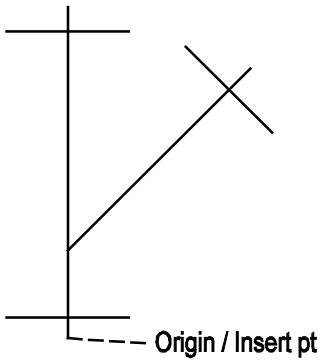
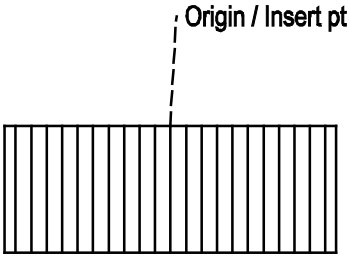
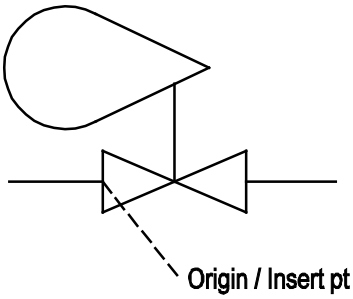
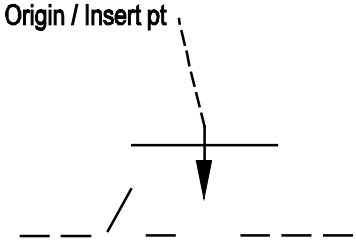
		
Mechanical: EVPCH PLATECOIL HEAD MANIFLD Element Type: Symbol	Mechanical: EVPCND EVAPORATIVE CONDENSER Element Type: Symbol	Mechanical: EVPLC PLATE COIL EVAPORATOR Element Type: Symbol
		
Mechanical: EXHINC CEILING EXHAUST INLET Element Type: Symbol	Mechanical: EXHINW WALL EXHAUST INLET Element Type: Symbol	Mechanical: EXLOOP EXPANSION LOOP Element Type: Symbol

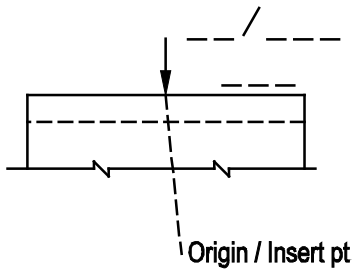
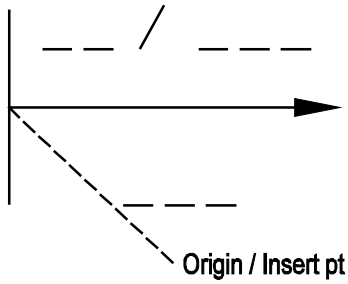
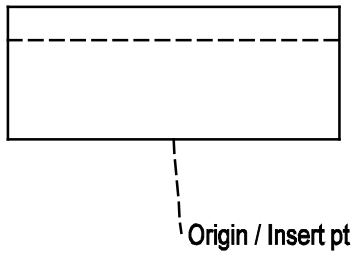
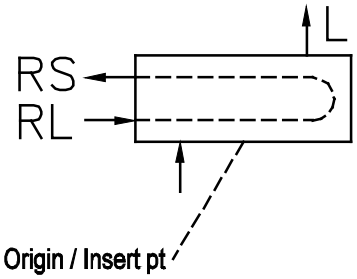
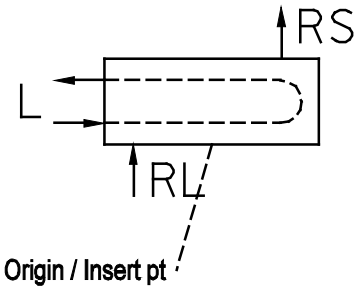
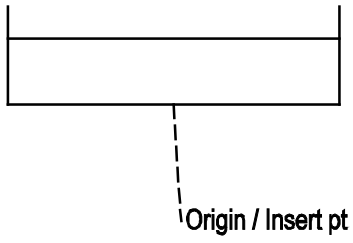
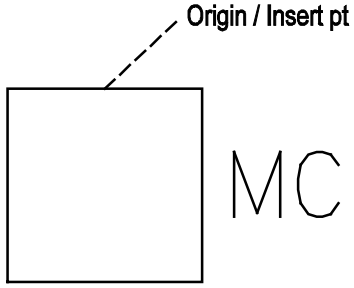
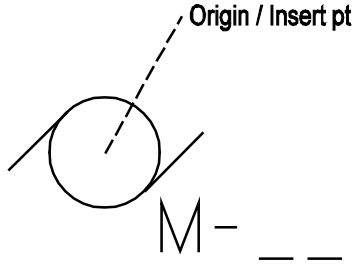
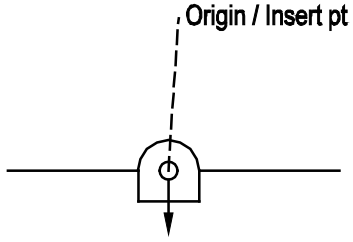
		
Mechanical: EXPJNT EXPANSION JOINT Element Type: Symbol	Mechanical: EXTRCT EXTRACTOR Element Type: Symbol	Mechanical: FANAF AXIAL FLOW FAN Element Type: Symbol
		
Mechanical: FANBLO BLOWER FAN Element Type: Symbol	Mechanical: FANCEN CENTRIFUGAL FAN Element Type: Symbol	Mechanical: FANERV EXHAUST ROOF VENT FAN Element Type: Symbol
		
Mechanical: FANLRV LOUVERED ROOF VENT FAN Element Type: Symbol	Mechanical: FANPRP PROPELLER FAN Element Type: Symbol	Mechanical: FANSRV INTAKE ROOF VENT FAN Element Type: Symbol

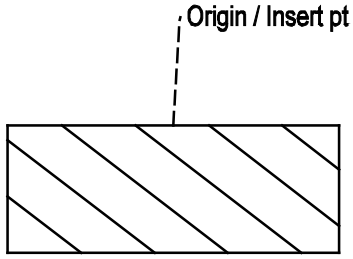
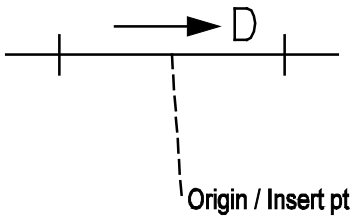
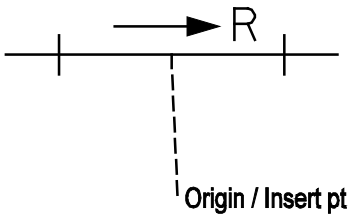
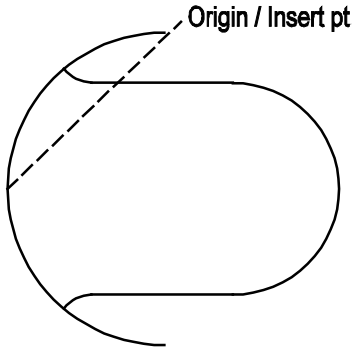
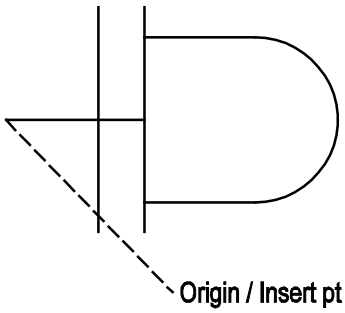
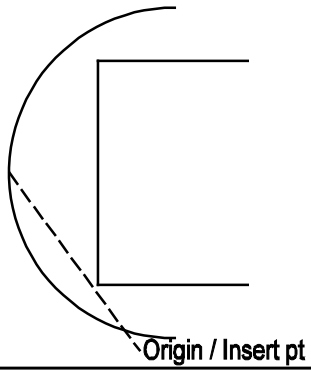
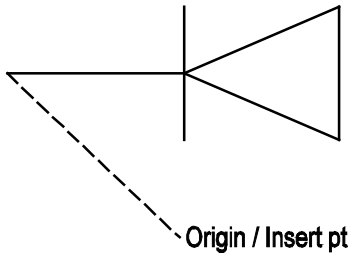
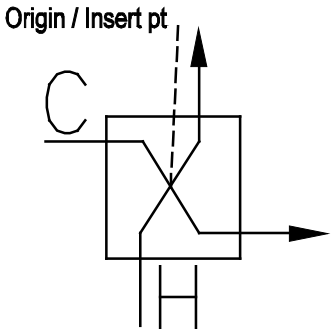
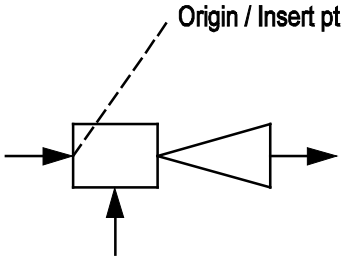
		
Mechanical: FILPNL AUTOMATIC FILTER PANEL Element Type: Symbol	Mechanical: FIXPLT FIXED PLATE Element Type: Symbol	Mechanical: FLBLND BLIND FLANGE Element Type: Symbol
		
Mechanical: FLDDRV FLUID DRIVE Element Type: Symbol	Mechanical: FLMTRO ORIFICE FLOWMETER Element Type: Symbol	Mechanical: FLMTRV VENTURI FLOWMETER Element Type: Symbol
		
Mechanical: FLONOZ FLOW NOZZLE Element Type: Symbol	Mechanical: FLORIF ORIFICE FLANGE FLANGED Element Type: Symbol	Mechanical: FLRED REDUCING FLANGE FLANGE Element Type: Symbol

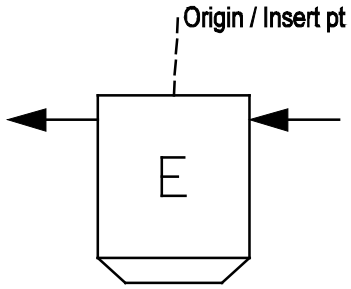
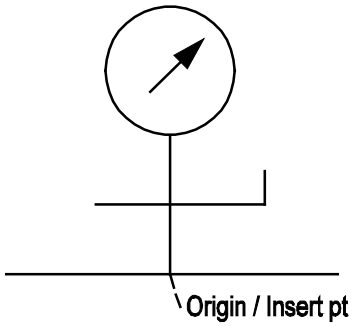
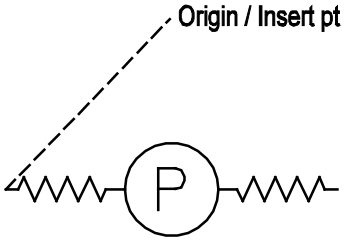
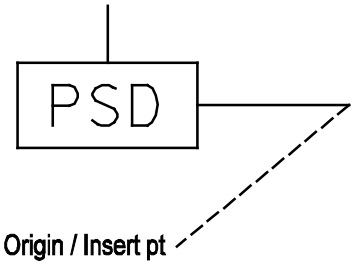
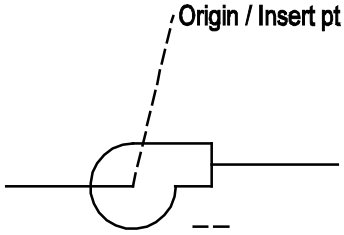
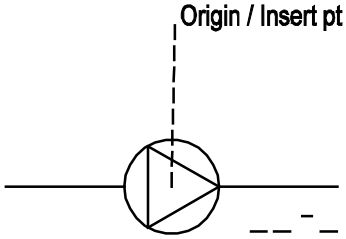
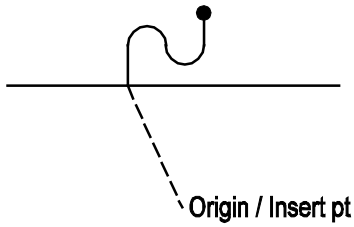
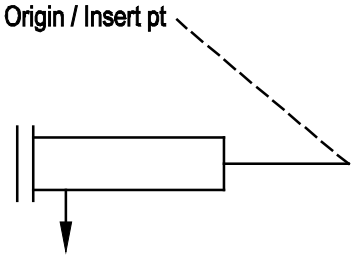
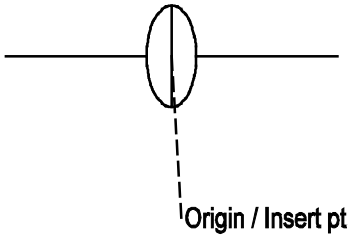
		
Mechanical: FLSWCH FLOW SWITCH Element Type: Symbol	Mechanical: FLXCON FLEXIBLE CONNECTOR Element Type: Symbol	Mechanical: GAUGE GAUGE Element Type: Symbol
		
Mechanical: GRLCEX CEILNGEXHAUSTGRILLEREG Element Type: Symbol	Mechanical: GRLCSU CEILINGSUPLYGRILLEORRE Element Type: Symbol	Mechanical: GRTRAN TRANSFER GRILLE ASSEMB Element Type: Symbol
		
Mechanical: HANGRD HANGER ROD Element Type: Symbol	Mechanical: HANGSP HANGER SPRING Element Type: Symbol	Mechanical: HANGSU HANGER OR SUPPORT Element Type: Symbol

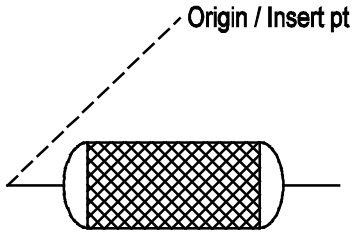
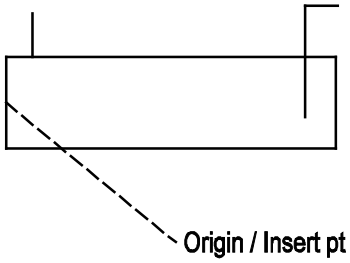
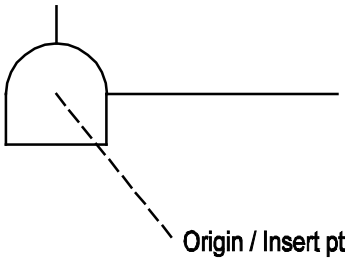
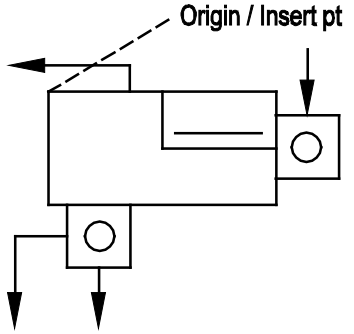
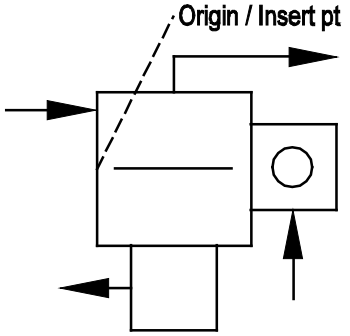
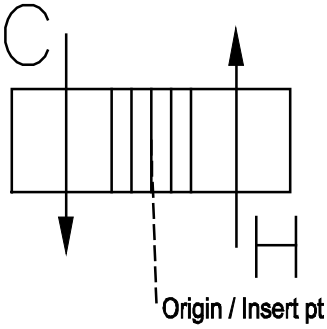
		
Mechanical: HTEXCH HEAT EXCHANGER Element Type: Symbol	Mechanical: HTEXCL LIQUID HEAT EXCHANGER Element Type: Symbol	Mechanical: HTPIPE HEAT PIPE Element Type: Symbol
		
Mechanical: HTRAPL AIR HEATER PLATEORTUBU Element Type: Symbol	Mechanical: HTRART AIR HEATER ROTATING TY Element Type: Symbol	Mechanical: HTRDCF DIRECTCONTAFEEDWATERHE Element Type: Symbol
		
Mechanical: HTRDSH DESUPERHEATER HEATER Element Type: Symbol	Mechanical: HTRFGR HEATER FLUE GAS REHEAT Element Type: Symbol	Mechanical: HTRFWA HEATER FEED W AIR OUTL Element Type: Symbol

		
Mechanical: HTRLSS LIVE STEAM SUPERHEATR Element Type: Symbol	Mechanical: HTSTOP HEATSTOPFORFIRERATEDCE Element Type: Symbol	Mechanical: HTTRSU HEAT TRANSFER SURFACE Element Type: Symbol
		
Mechanical: LATBS LATERAL BELL AND SPIGO Element Type: Symbol	Mechanical: LATFL LATERAL FLANGED Element Type: Symbol	Mechanical: LATSC LATERAL SCREWED Element Type: Symbol
		
Mechanical: LITPNL LIGHTING PANEL Element Type: Symbol	Mechanical: LLCONT LIQUID LEVEL CONTROLLE Element Type: Symbol	Mechanical: LNDIFF LINEER DIFFUSER Element Type: Symbol

		
Mechanical: LOUINS INTAKE LOUVER AND SCRE Element Type: Symbol	Mechanical: LOUOPN DOOR OR WALL LOUVER OP Element Type: Symbol	Mechanical: LQCHCT CLOSED TANK LIQUID CHI Element Type: Symbol
		
Mechanical: LQCHDE DIRECT EXPANSN LIQD CH Element Type: Symbol	Mechanical: LQCHFL FLOODED LIQUID CHILLER Element Type: Symbol	Mechanical: LQCHOT OPEN TANK LIQUID CHILL Element Type: Symbol
		
Mechanical: MOTCTR MOTOR CONTROL Element Type: Symbol	Mechanical: MOTORE ELECTRIC MOTOR Element Type: Symbol	Mechanical: OILSEP OIL SEPERATOR Element Type: Symbol

		
Mechanical: PBDIST DISTRIBUTION PANEL Element Type: Symbol	Mechanical: PIDROP PITCH OR PIPE DROP Element Type: Symbol	Mechanical: PIRISE PITCH OR PIPE RISE Element Type: Symbol
		
Mechanical: PLGBBS BULL PLUG BELL AND SPI Element Type: Symbol	Mechanical: PLGBFL BULL PLUG FLANGED Element Type: Symbol	Mechanical: PLGPBS PIPE PLUG BELL AND SPI Element Type: Symbol
		
Mechanical: PLGPSC PIPE PLUG SCREWED Element Type: Symbol	Mechanical: PLTFIN PLATE FIN CROSS FLOW Element Type: Symbol	Mechanical: PMPDYN DYNAMIC PUMP Element Type: Symbol

		
Mechanical: PRECIP PRECIPITATOR Element Type: Symbol	Mechanical: PRGGCO PRESSURE GAGE AND COCK Element Type: Symbol	Mechanical: PRSTAT PRESSURE STAT Element Type: Symbol
		
Mechanical: PSDIFF PUMP SUCTION DIFFUSER Element Type: Symbol	Mechanical: PUMPP PUMP PLAN INDICATE USE Element Type: Symbol	Mechanical: PUMPS PUMP SCHEMATIC INDICAT Element Type: Symbol
		
Mechanical: REFLNK FUSIBLE LINK Element Type: Symbol	Mechanical: REFLTD FILTER AND DRIER Element Type: Symbol	Mechanical: REFLTL FILTER LINE Element Type: Symbol

		
Mechanical: REFLTS FILTER AND STRAINER U Element Type: Symbol	Mechanical: REHPHR HIGHPRESSHORIZORECEIVE Element Type: Symbol	Mechanical: REHPVR HIGH PRESS VERT RECEIV Element Type: Symbol
		
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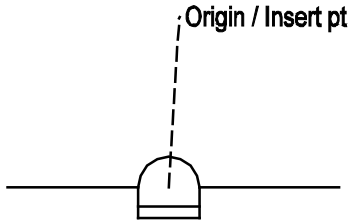	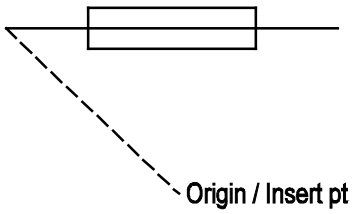	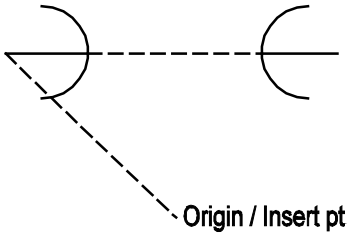
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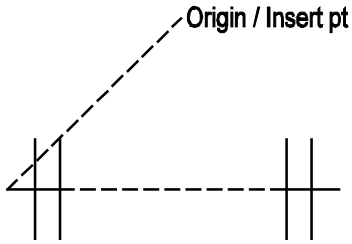	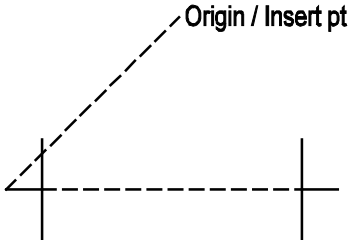	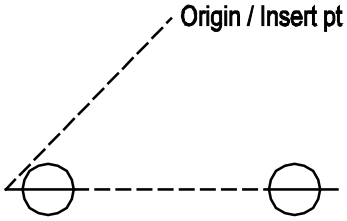
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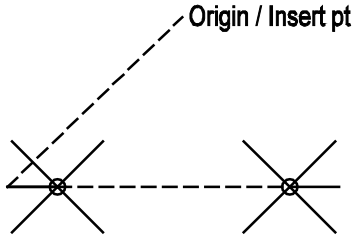	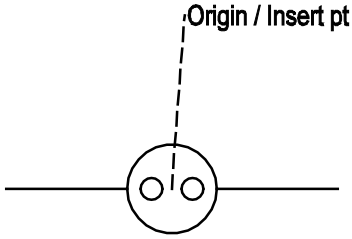	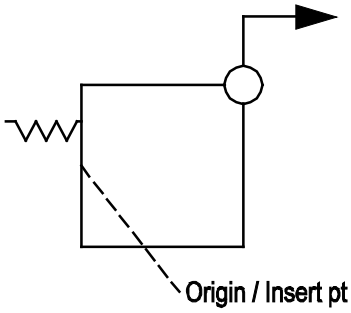
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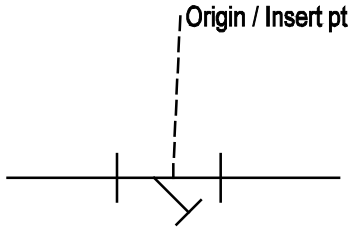
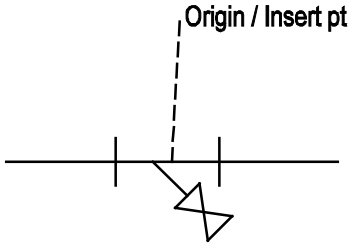
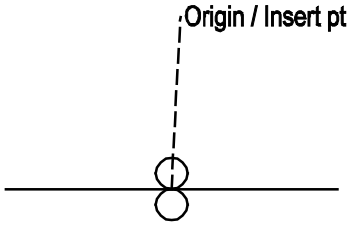
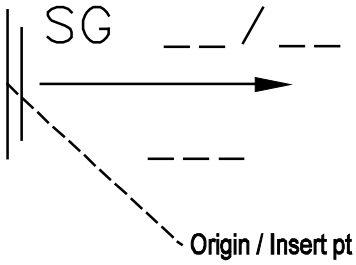
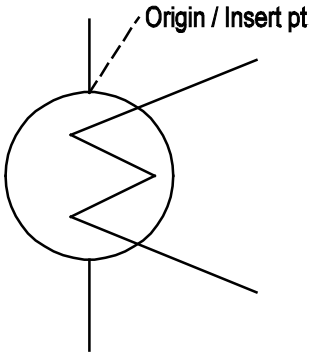
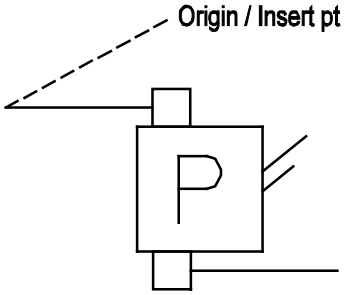
		
Mechanical: STRAIN STRAINER Element Type: Symbol	Mechanical: STRBLO BLOW OFF STRAINER Element Type: Symbol	Mechanical: STRDVP DUPLEX STRAINER Element Type: Symbol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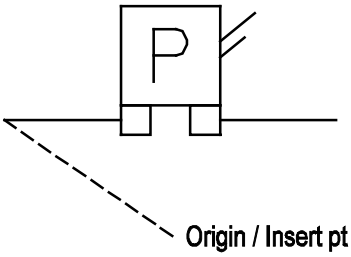	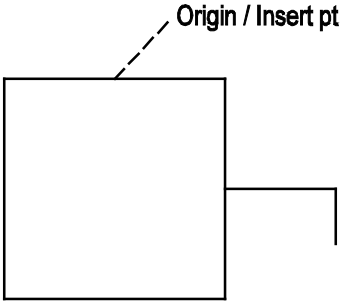	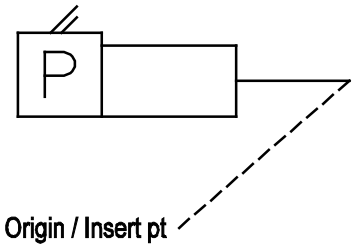
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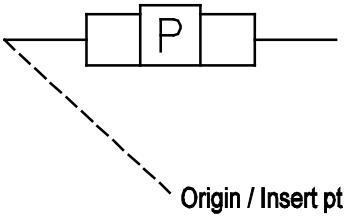	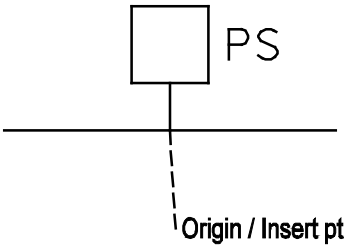	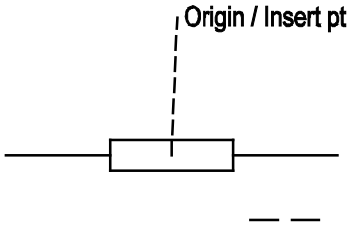
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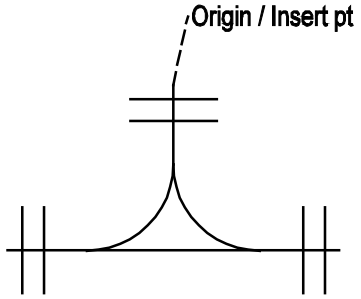	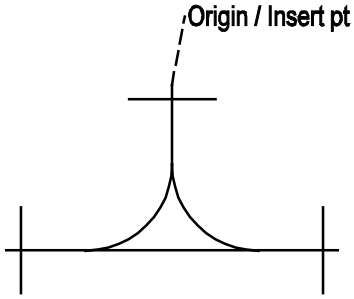	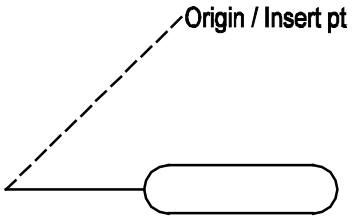
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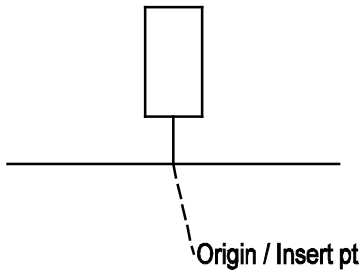	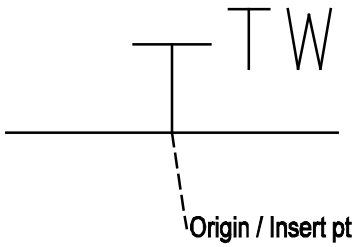	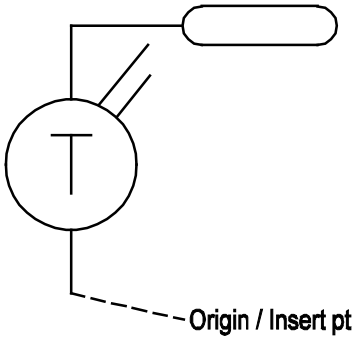
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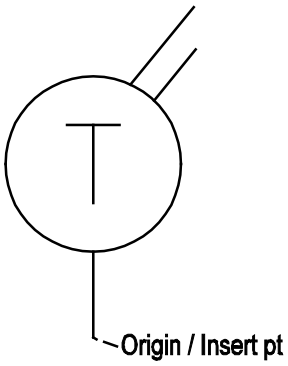	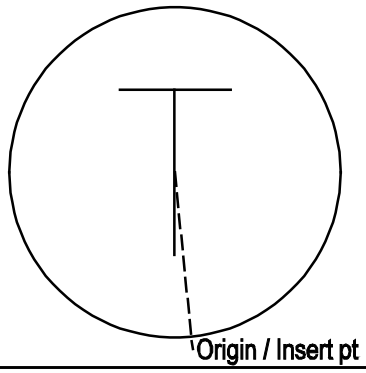	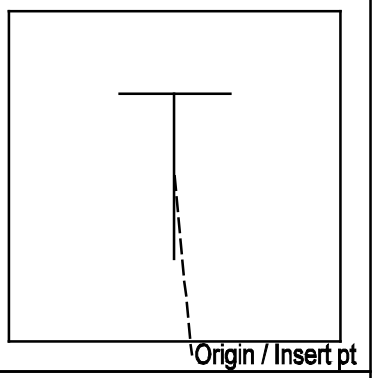
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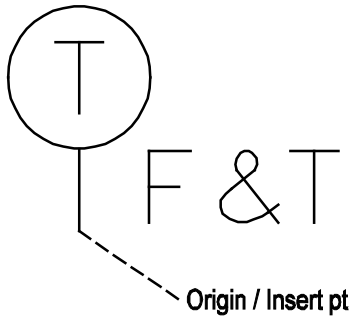	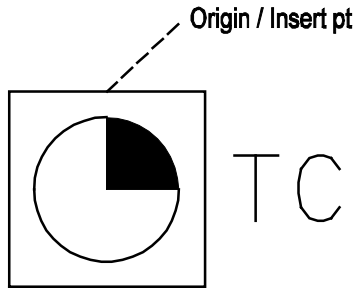	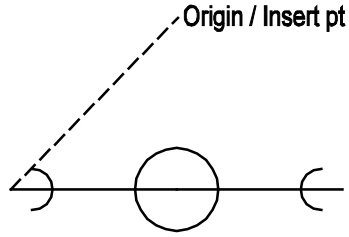
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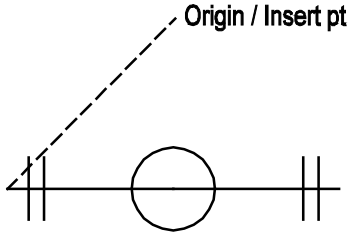	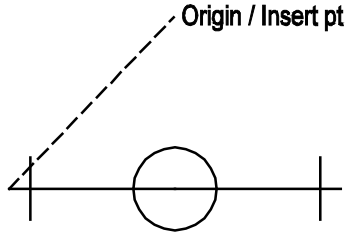	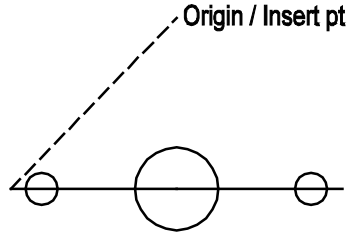
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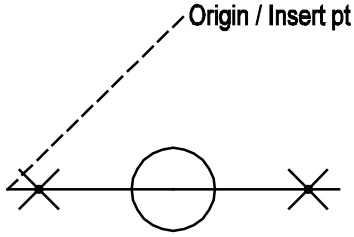	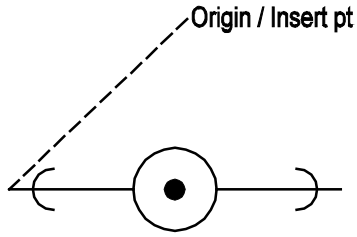	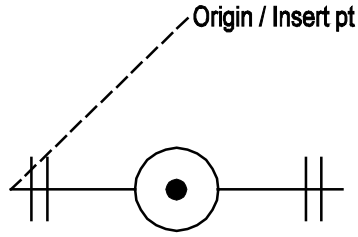
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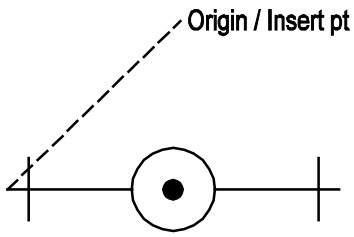	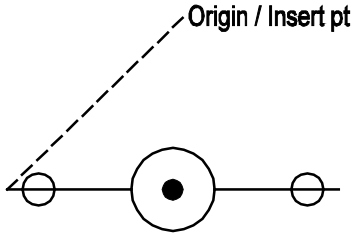	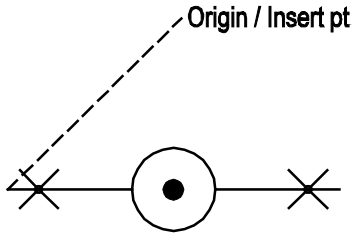
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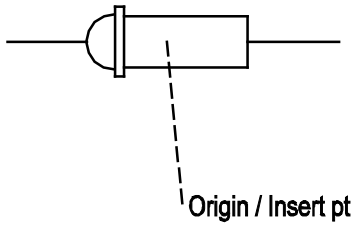
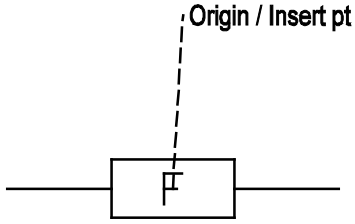
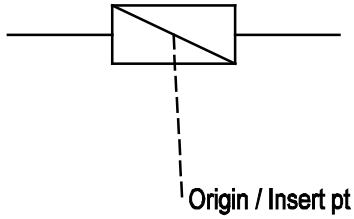
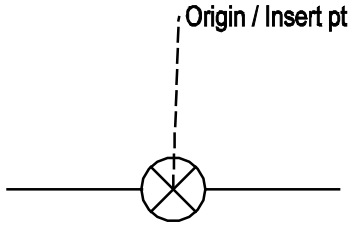
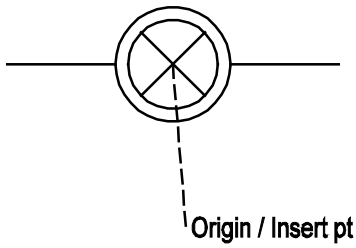
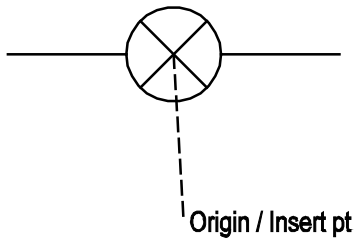
		
Mechanical: TRAPBR BOILER RETURN TRAP Element Type: Symbol	Mechanical: TRAPFL FLOAT TRAP Element Type: Symbol	Mechanical: TRAPFT FLOAT THERMOSTATIC T Element Type: Symbol
		
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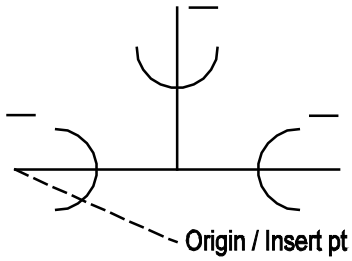	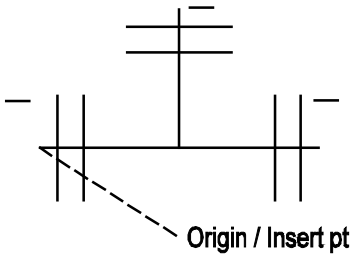	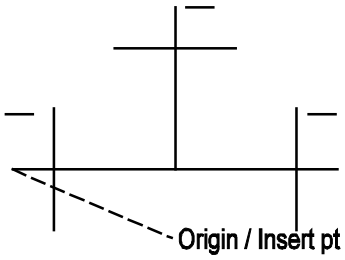
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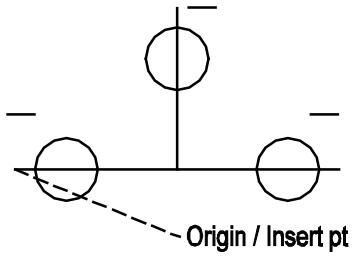	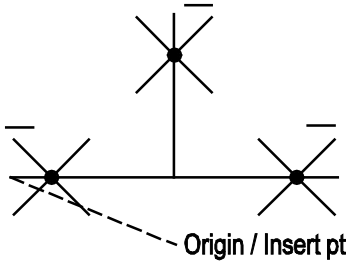	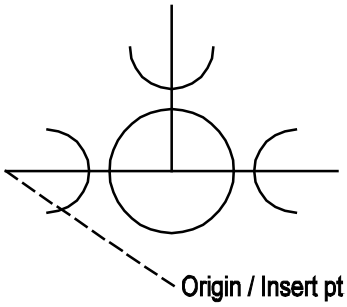
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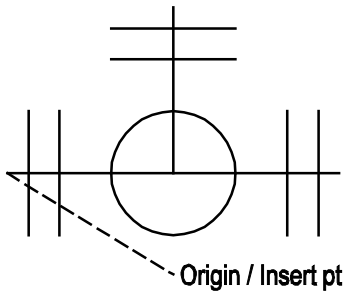
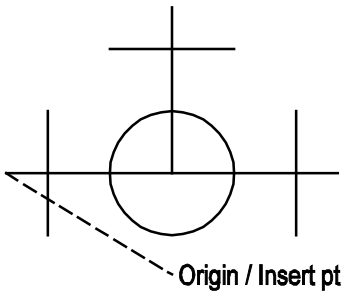
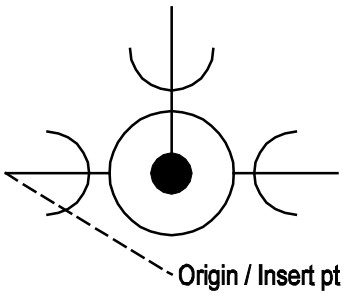
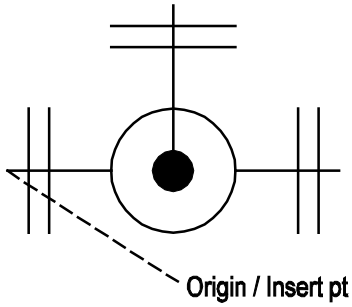
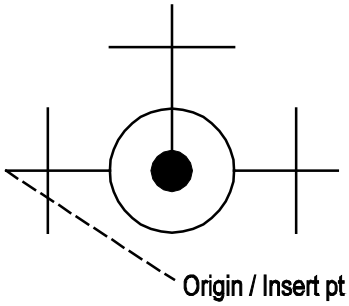
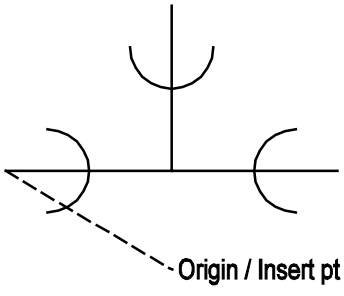
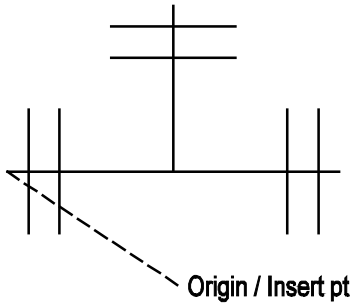
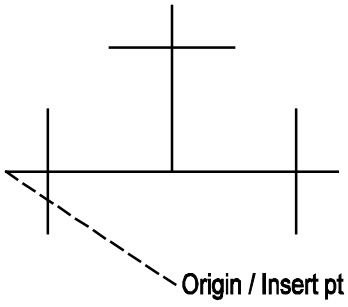
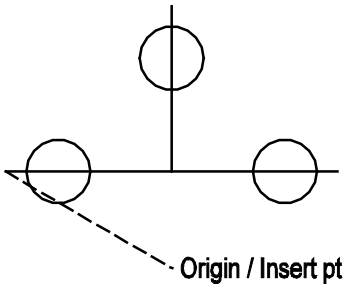
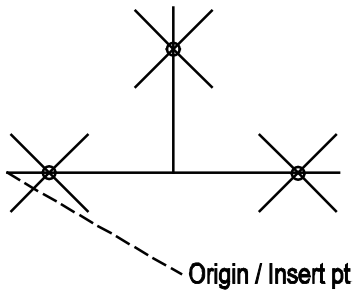
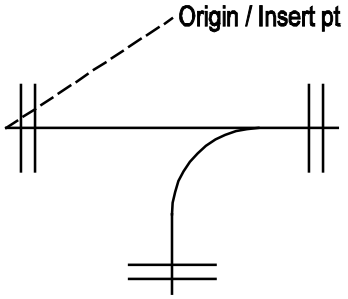
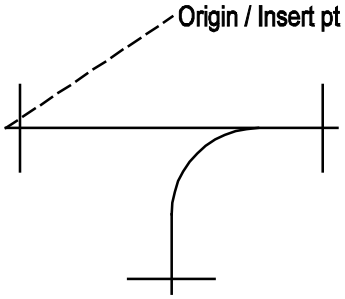
		
Mechanical: TSODFL TEEFLANGEDSIDOUTLEOUTL Element Type: Symbol	Mechanical: TSODSC TEESCREWDSIDOUTLETOUTL Element Type: Symbol	Mechanical: TSOUBS TEBELSPIGTSIDOUTLETOUT Element Type: Symbol

		
Mechanical: TSOUFL TEEFLANGEDSIDOUTLETOUT Element Type: Symbol	Mechanical: TSOUSC TEESCREWEDSIDOUTLETOUT Element Type: Symbol	Mechanical: TSSBS STRAIGHTSIZETEEBELL SP Element Type: Symbol
		
Mechanical: TSSFL STRAIGHT SIZE TEE FLAN Element Type: Symbol	Mechanical: TSSSC STRAIGHT SIZE TEE SCRE Element Type: Symbol	Mechanical: TSSSO STRAIGHT SIZE TEE SOLD Element Type: Symbol
		
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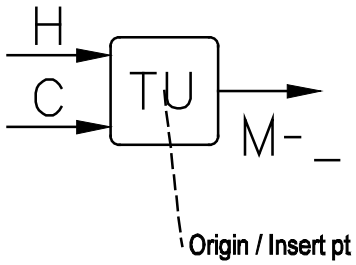	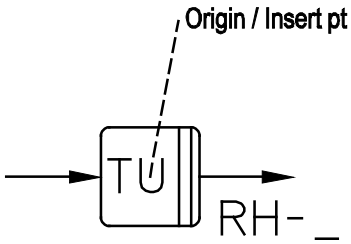	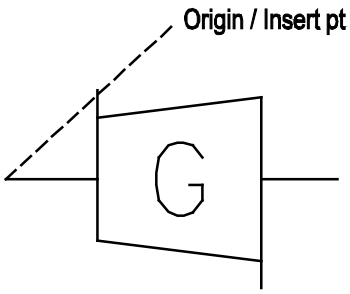
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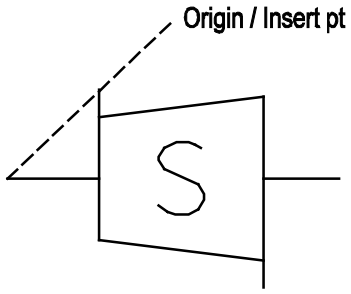
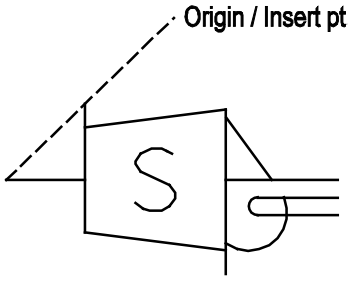
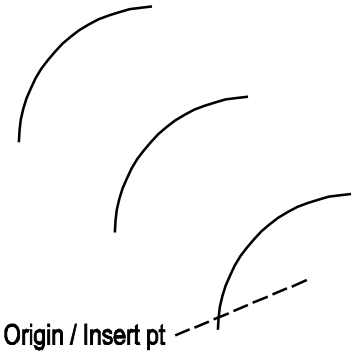
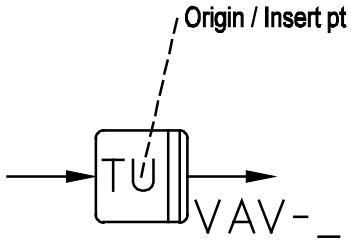
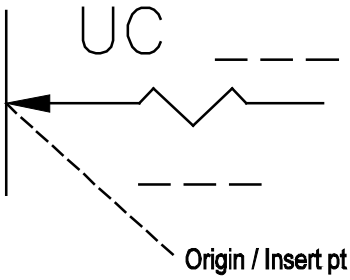
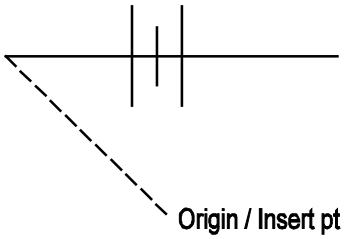
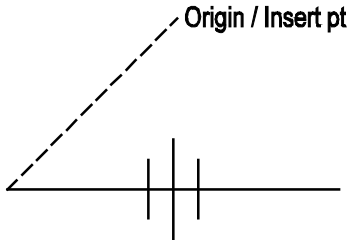
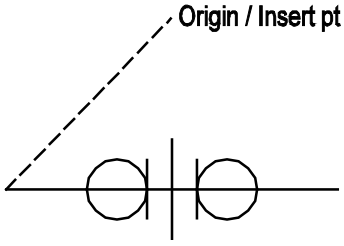
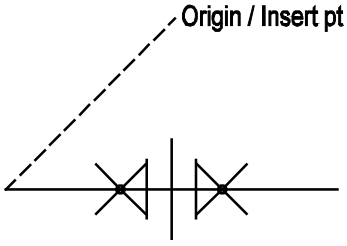
		
Mechanical: TURST STEAM TURBINE Element Type: Symbol	Mechanical: TURSTC CONDENSING STEAM TURBI Element Type: Symbol	Mechanical: TUVANE TURNING VANE Element Type: Symbol
		
Mechanical: TUVAVR VAR VOL TERMINAL UNT R Element Type: Symbol	Mechanical: UCDOOR UNDERCUT DOOR Element Type: Symbol	Mechanical: UNIOFL UNION FLANGED Element Type: Symbol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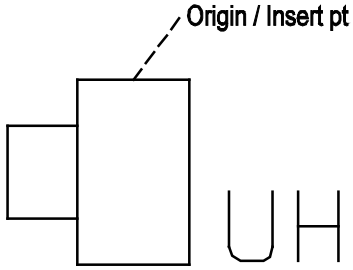
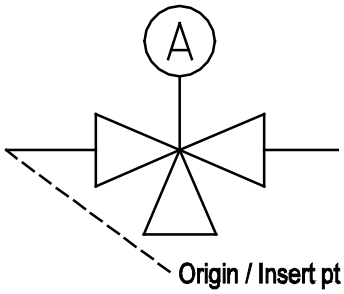
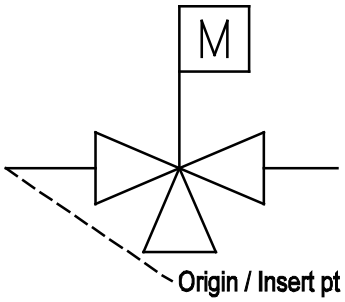
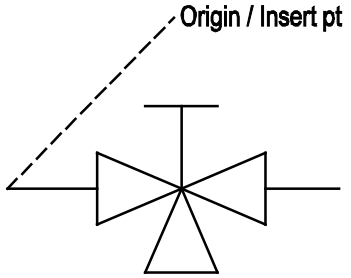
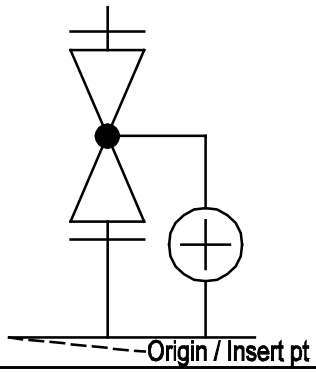
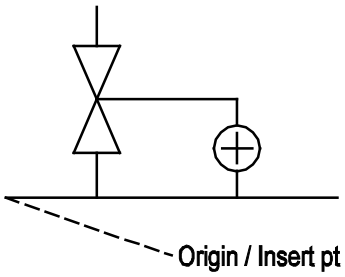
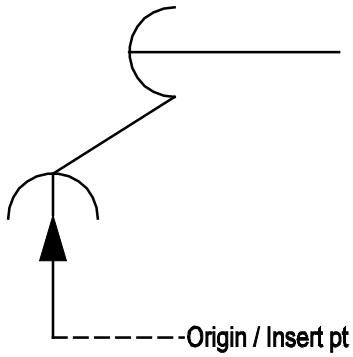
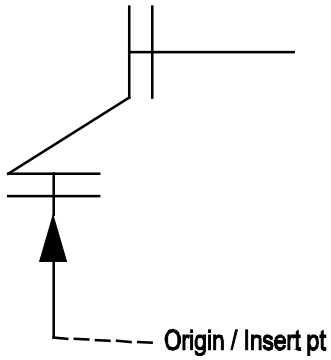
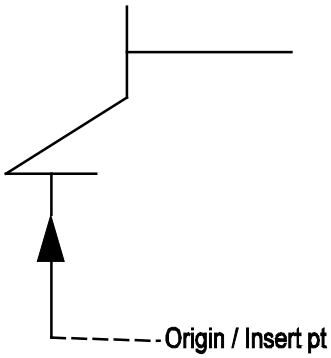
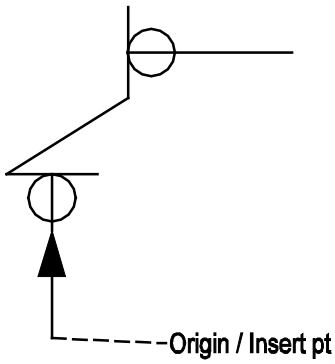
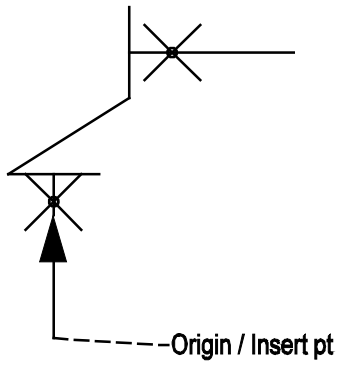
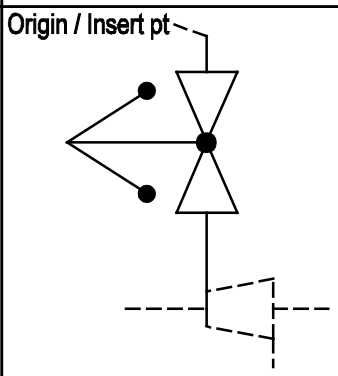
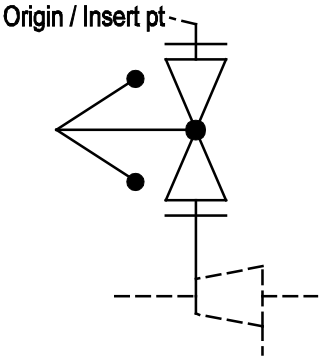
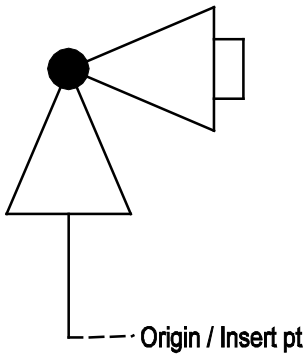
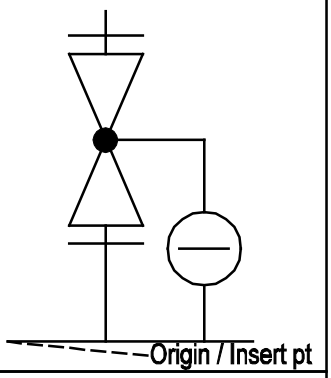
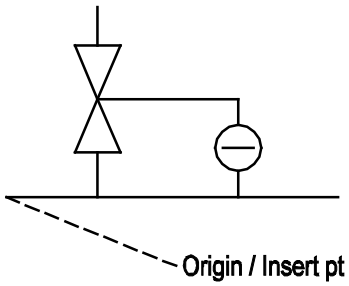
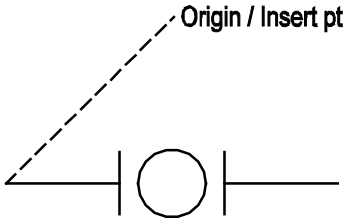
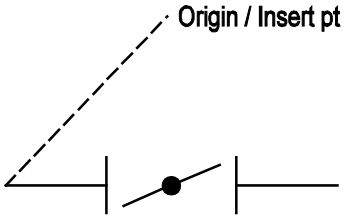
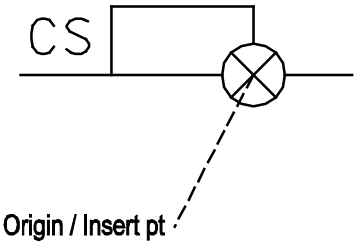
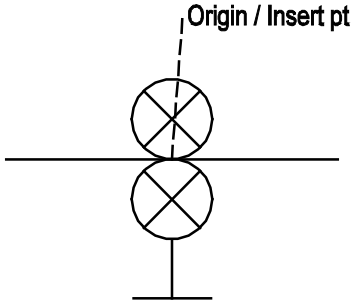
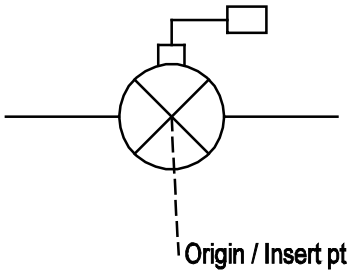
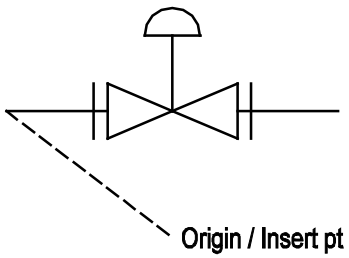
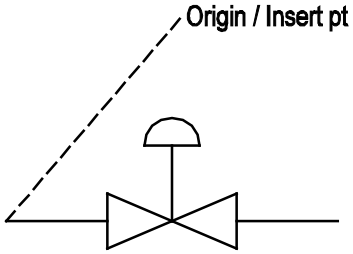
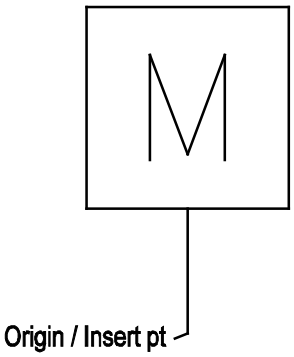
		
Mechanical: UNTHTR UNIT HEATER INDICATE T Element Type: Symbol	Mechanical: VA3WAM 3WAY AIRMOTOR CONTROLE Element Type: Symbol	Mechanical: VA3WEM 3WAY ELECMOTOR CONTRLE Element Type: Symbol
		
Mechanical: VA3WM 3 WAY MANUAL VALVE Element Type: Symbol	Mechanical: VAABFL AUTMATICBYPASSVALVFLAN Element Type: Symbol	Mechanical: VAABYP AUTOMATIC BYPASS VALVE Element Type: Symbol

		
Mechanical: VAACBS ANGLECHECKVALVBELL SPI Element Type: Symbol	Mechanical: VAACFL ANGLE CHECK VALVE FLAN Element Type: Symbol	Mechanical: VAACSC ANGLE CHECK VALVE SCRE Element Type: Symbol
		
Mechanical: VAACSO ANGLE CHECK VALVE SOLD Element Type: Symbol	Mechanical: VAACWE ANGLE CHECK VALVE WELD Element Type: Symbol	Mechanical: VAAGO AUTO GOVERNOR OPERATD Element Type: Symbol
		
Mechanical: VAAGOF AUTO GOVR OPRTD VLV FL Element Type: Symbol	Mechanical: VAAHOS ANGLE HOSE VALVE Element Type: Symbol	Mechanical: VAARDF AUTOREDUCINGVALVE FLAN Element Type: Symbol

		
Mechanical: VAARED AUTOMATIC REDUCING VAL Element Type: Symbol	Mechanical: VABALL BALL VALVE Element Type: Symbol	Mechanical: VABFLY BUTTERFLY VALVE Element Type: Symbol
		
Mechanical: VACMPS COMPRESSOR SUCTION VAL Element Type: Symbol	Mechanical: VACPS VALVE CONSTANT PRES SU Element Type: Symbol	Mechanical: VACWR CONDENSWATER REGULATVA Element Type: Symbol
		
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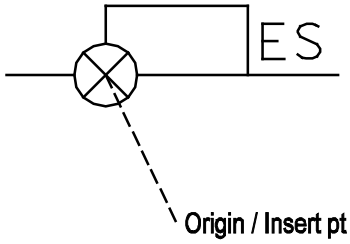	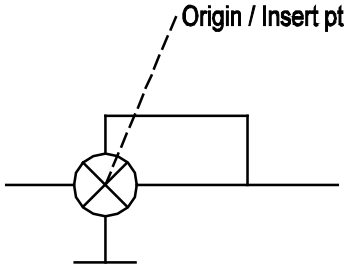	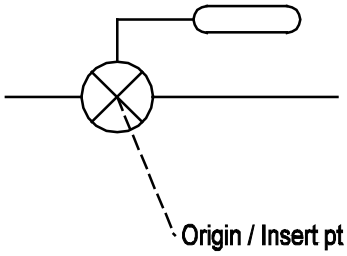
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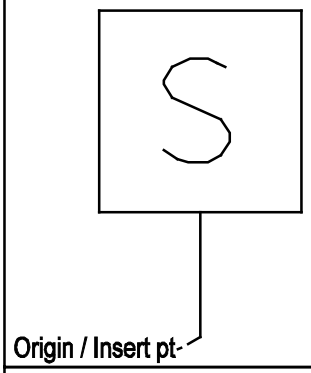	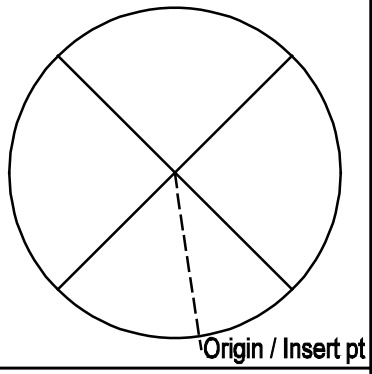	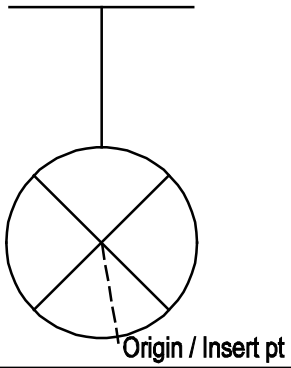
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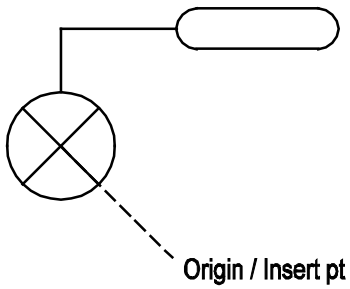
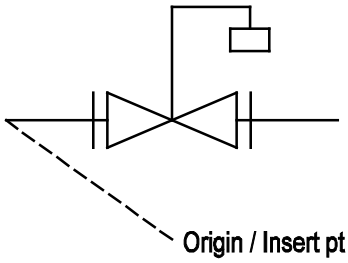
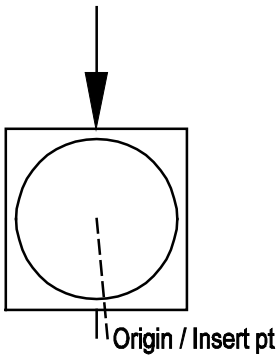
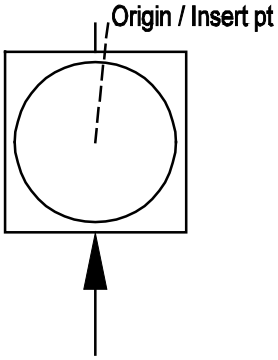
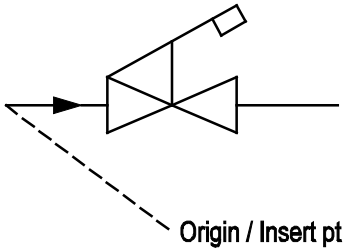
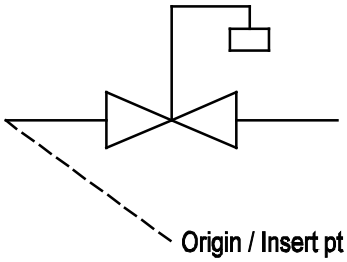
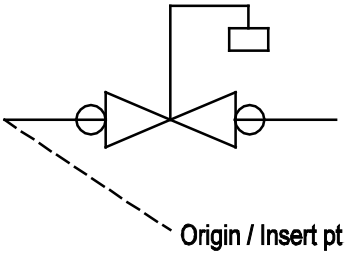
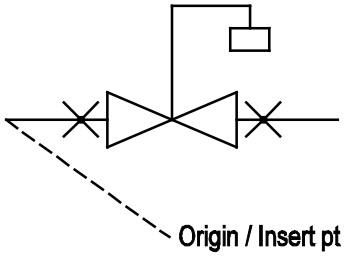
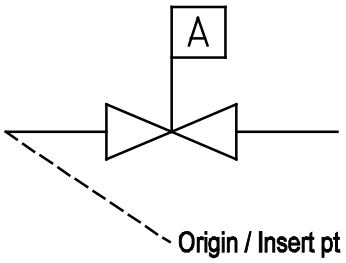
		
Mechanical: VAEXT THERMOST EXPANSION VAL Element Type: Symbol	Mechanical: VAFLFL FLOAT VALVE FLANGED Element Type: Symbol	Mechanical: VAFLHS HIGH SIDE FLOAT VALVE Element Type: Symbol

		
Mechanical: VAFLLS LOW SIDE FLOAT VALVE Element Type: Symbol	Mechanical: VAFLQ FUSIBLE LINK QUICK VAL Element Type: Symbol	Mechanical: VAFLSC FLOAT VALVE SCREWED Element Type: Symbol
		
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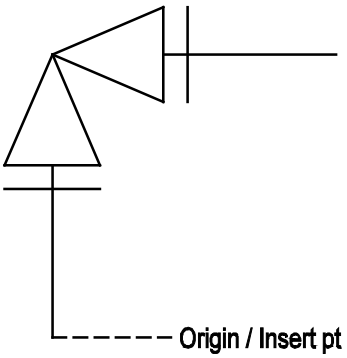
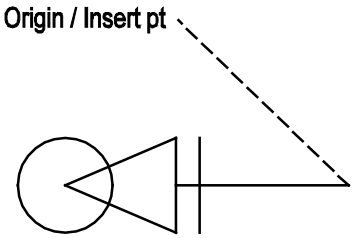
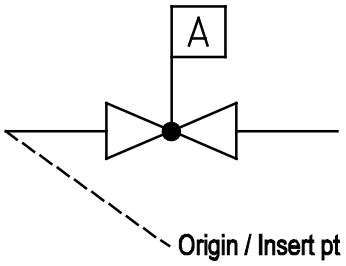
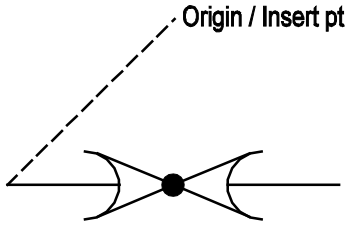
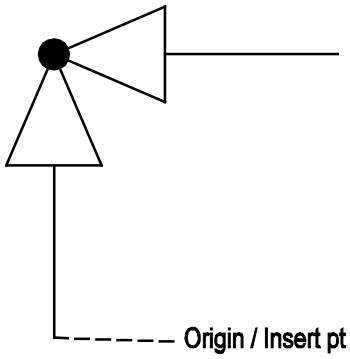
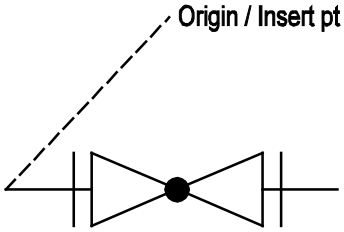
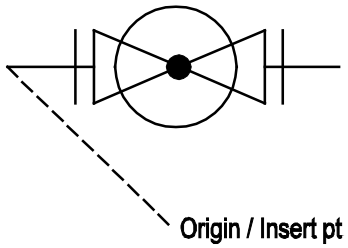
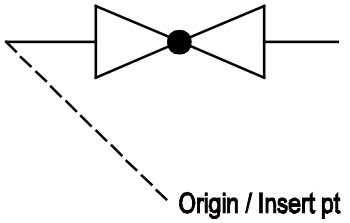
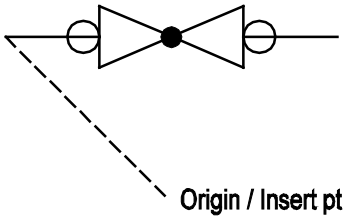
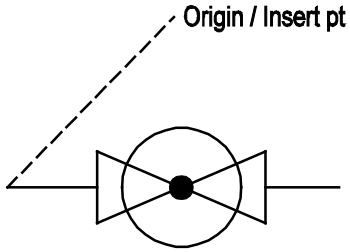
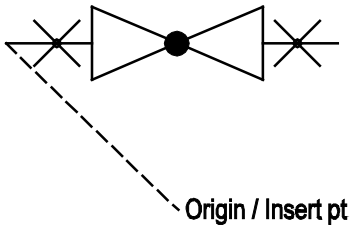
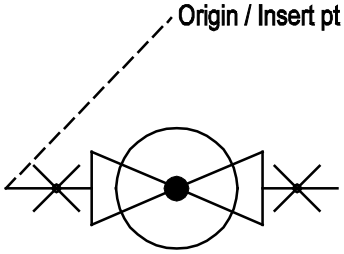
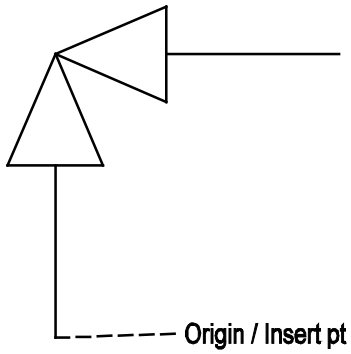
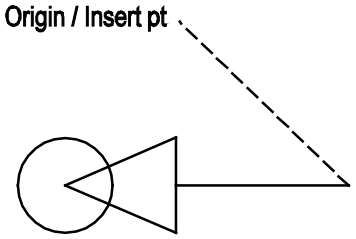
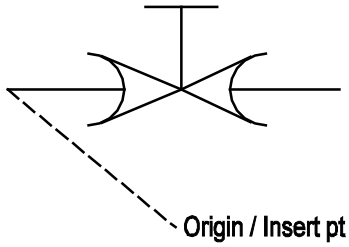
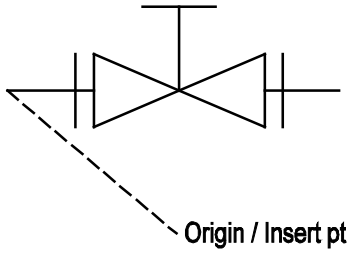
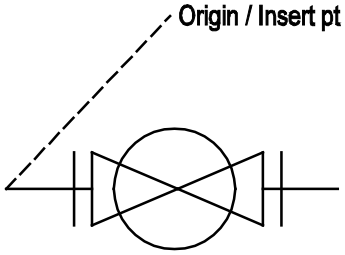
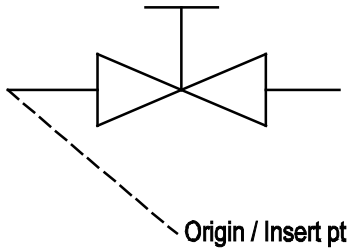
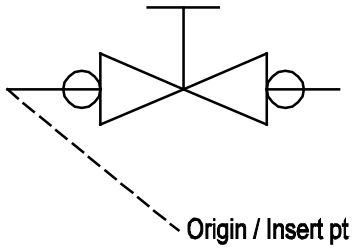
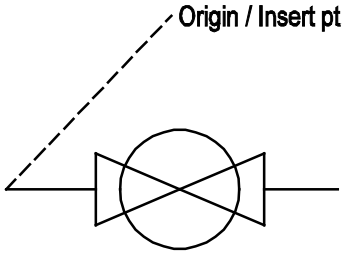
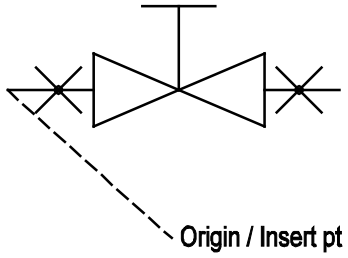
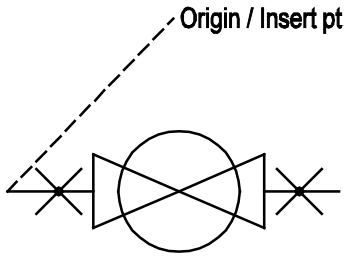
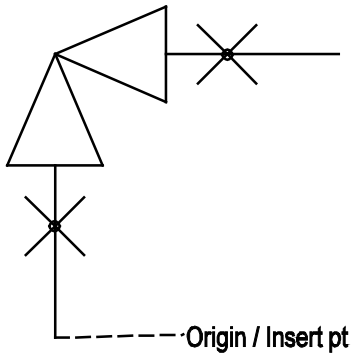
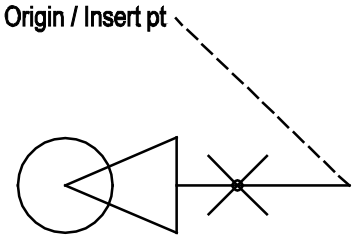
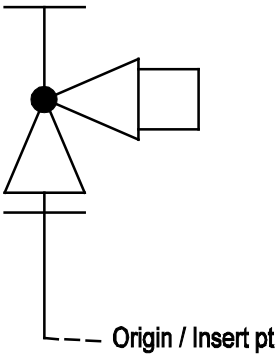
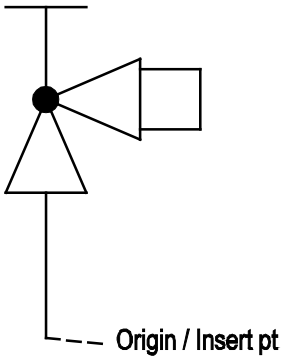
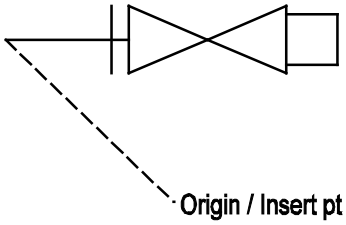
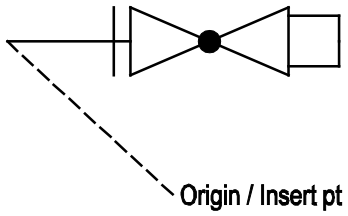
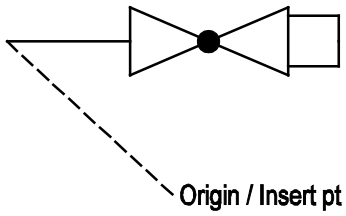
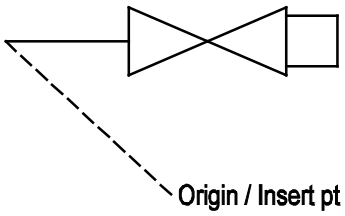
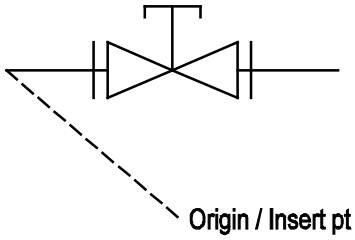
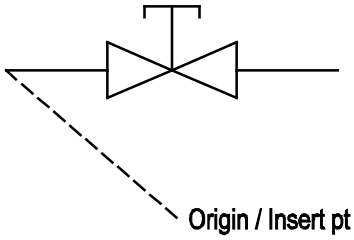
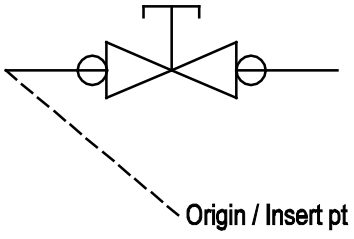
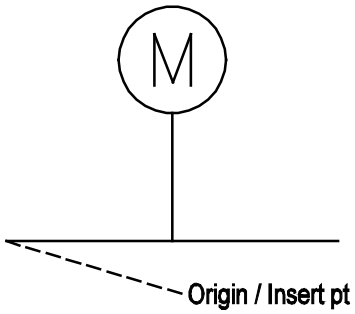
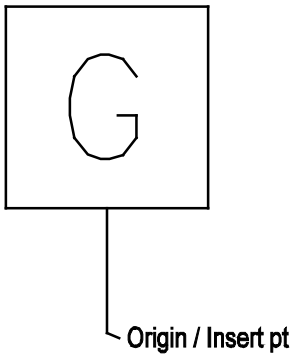
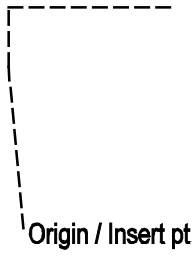
		
Mechanical: VAGFE ANGLE GATE VLV FLANGED Element Type: Symbol	Mechanical: VAGFP ANGLE GATE VLV FLANGED Element Type: Symbol	Mechanical: VAGLAM AIRMOTOR CONTROLD GLOB Element Type: Symbol

		
Mechanical: VAGLBE GLOBEVALVE BELL SPIGOT Element Type: Symbol	Mechanical: VAGLE ANGLE GLOBE VALVE ELEV Element Type: Symbol	Mechanical: VAGLFE GLOBE VLV FLANGED ELEV Element Type: Symbol
		
Mechanical: VAGLFP GLOBE VALVE FLANGED PL Element Type: Symbol	Mechanical: VAGLSE GLOBE VLV SCREWED ELEV Element Type: Symbol	Mechanical: VAGLSO GLOBE VALVE SOLDERED Element Type: Symbol
		
Mechanical: VAGLSP GLOBEVALVE SCREWED PLA Element Type: Symbol	Mechanical: VAGLWE GLOBE VALVE WELDED ELE Element Type: Symbol	Mechanical: VAGLWP GLOBEVALVE WELDED PLAN Element Type: Symbol

		
Mechanical: VAGSE ANGLE GATE VLV SCREWED Element Type: Symbol	Mechanical: VAGSP ANGLE GATE VLV SCREWED Element Type: Symbol	Mechanical: VAGTBE GATE VALVE BELL SPIGOT Element Type: Symbol
		
Mechanical: VAGTFE GATE VALVE FLANGED ELE Element Type: Symbol	Mechanical: VAGTFP GATE VALVE FLANGED PLA Element Type: Symbol	Mechanical: VAGTSE GATE VALVE SCREWED ELE Element Type: Symbol
		
Mechanical: VAGTSO GATE VALVE SOLDERED Element Type: Symbol	Mechanical: VAGTSP GATE VALVE SCREWED PLA Element Type: Symbol	Mechanical: VAGTWE GATE VALVE WELDED ELEV Element Type: Symbol

		
Mechanical: VAGTWP GATE VALVE WELDED PLAN Element Type: Symbol	Mechanical: VAGWE ANGLE GATE VLV WELDED Element Type: Symbol	Mechanical: VAGWP ANGLE GATE VLV WELDED Element Type: Symbol
		
Mechanical: VAHAFL HOSE ANGLE VALVE FLANG Element Type: Symbol	Mechanical: VAHASC HOSE ANGLE VALVE SCREW Element Type: Symbol	Mechanical: VAHGFL HOSE GATE VALVE FLANGE Element Type: Symbol
		
Mechanical: VAHGLF HOSE GLOBE VALVE FLANG Element Type: Symbol	Mechanical: VAHGLS HOSE GLOBE VALVE SCREW Element Type: Symbol	Mechanical: VAHGSC HOSE GATE VALVE SCREWE Element Type: Symbol

		
Mechanical: VALSFL LOCK SHIELD VALVE FLAN Element Type: Symbol	Mechanical: VALSSC LOCK SHIELD VALVE SCRE Element Type: Symbol	Mechanical: VALSSO LOCK SHIELD VALVE SOLD Element Type: Symbol
		
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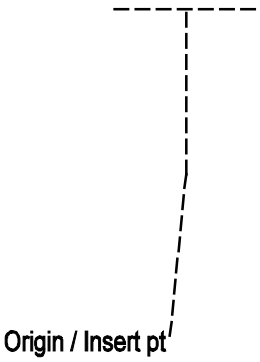
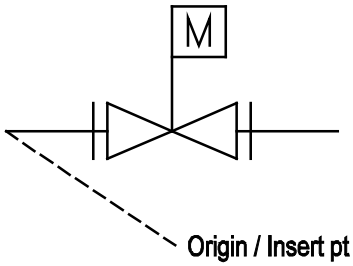
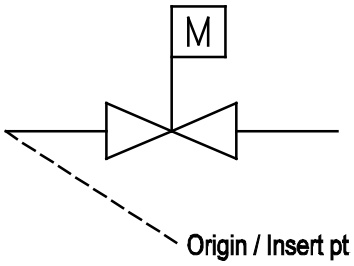
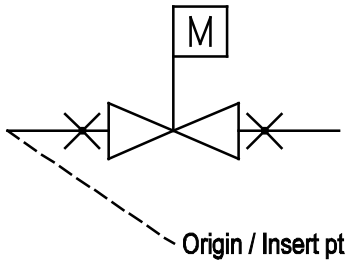
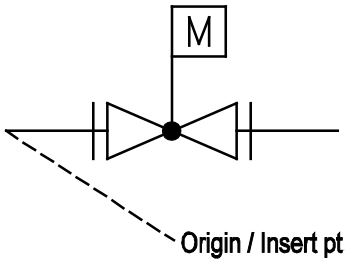
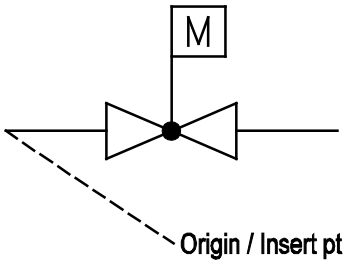
		
Mechanical: VAMNNS VLV ACTUA MAN NONRISIN Element Type: Symbol	Mechanical: VAMOGF MOTOR OPRTD GATE VLV F Element Type: Symbol	Mechanical: VAMOGS MOTOR OPERATD GATE VLV Element Type: Symbol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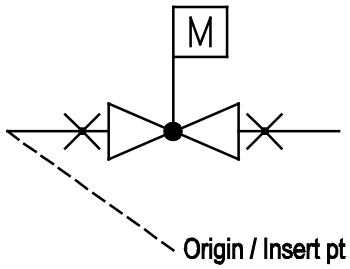	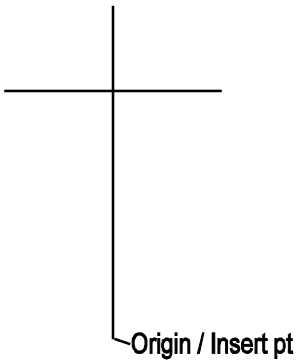	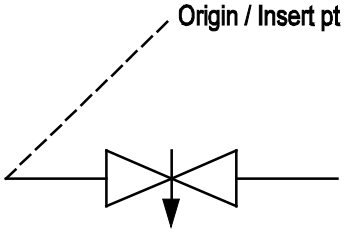
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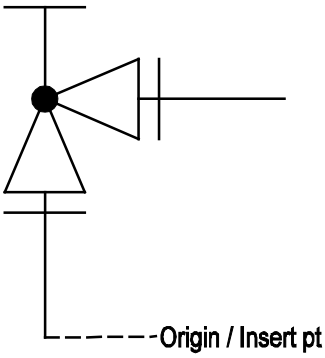	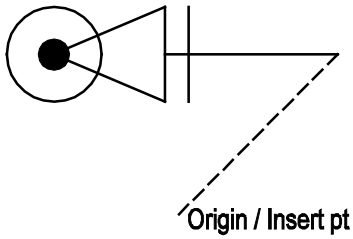	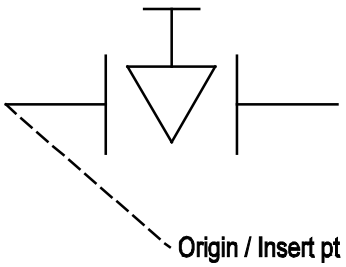
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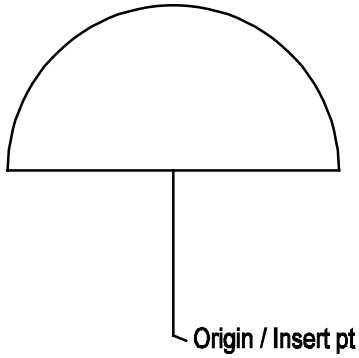	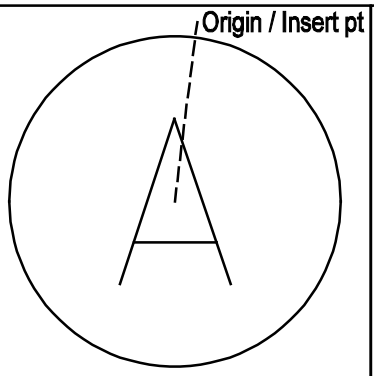	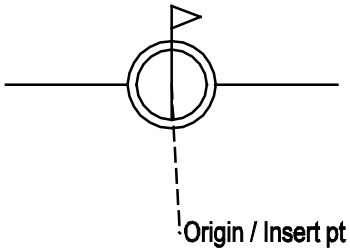
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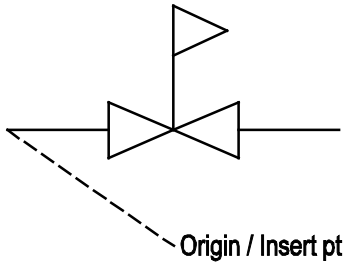	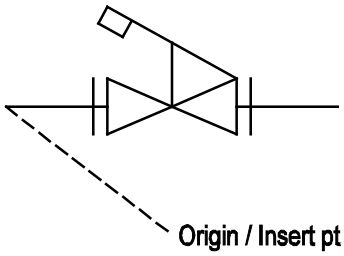	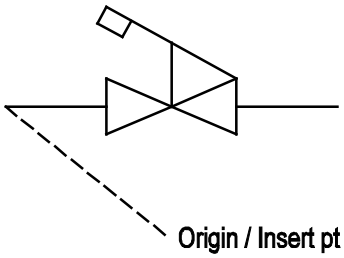
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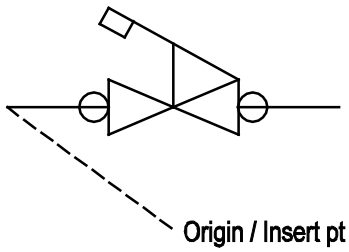	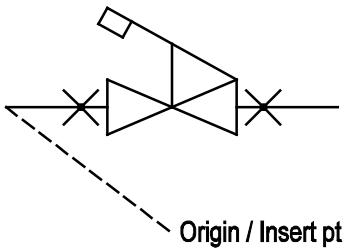	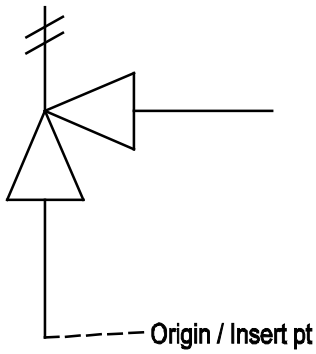
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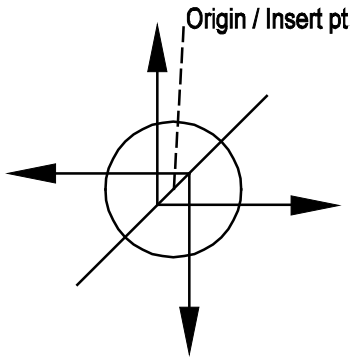	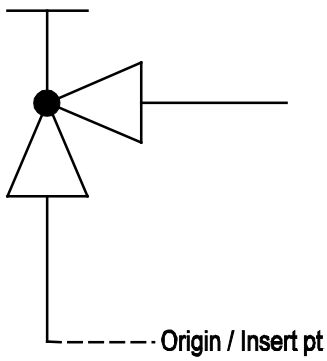	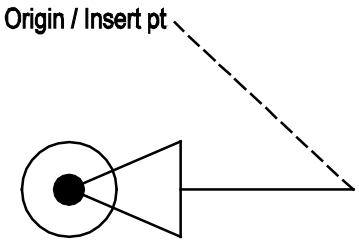
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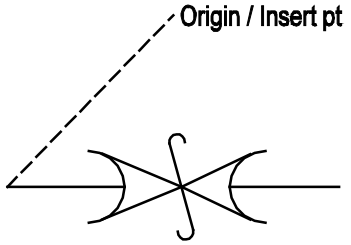
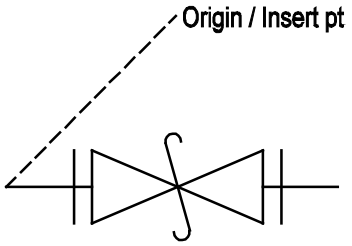
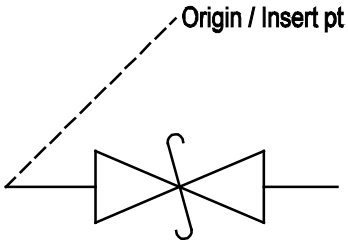
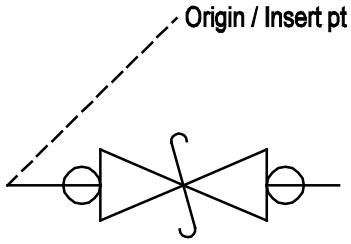
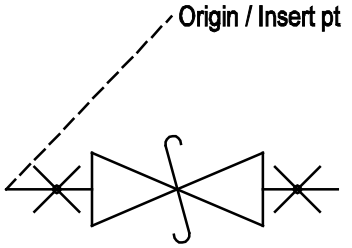
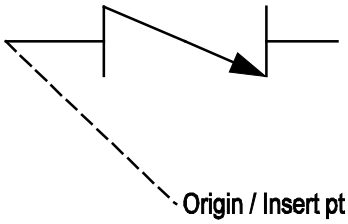
		
Mechanical: VASFBS SAFETY VALVE BELL SPIG Element Type: Symbol	Mechanical: VASFFL SAFETY VALVE FLANGED Element Type: Symbol	Mechanical: VASFSC SAFETY VALVE SCREWED Element Type: Symbol
		
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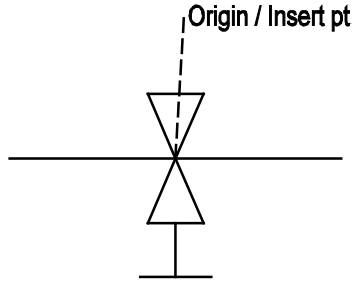	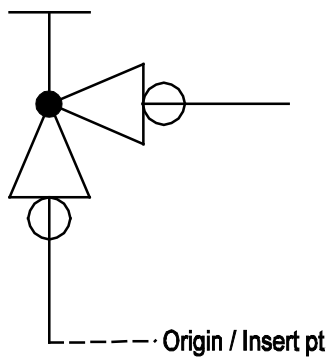	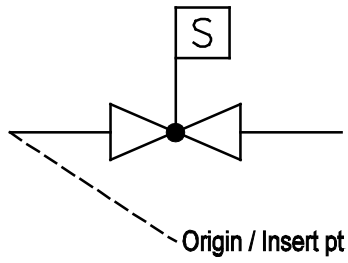
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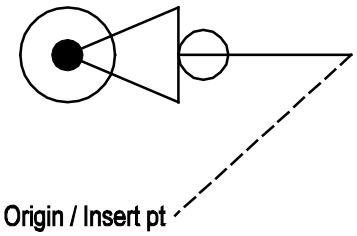
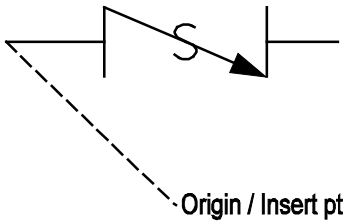
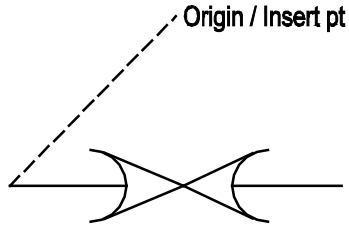
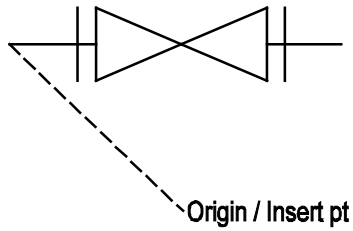
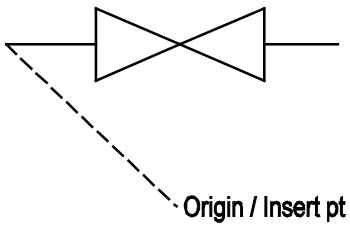
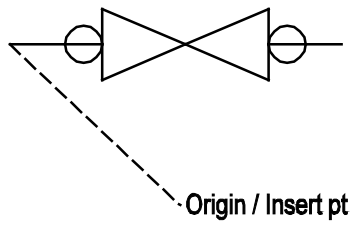
		
Mechanical: VASOP ANGLE GLOBEVLV SOLDERD Element Type: Symbol	Mechanical: VASPCH SPRING CHECK VALVE Element Type: Symbol	Mechanical: VASTBS STOP VALVE BELL AND SP Element Type: Symbol
		
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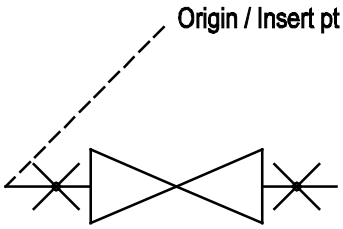	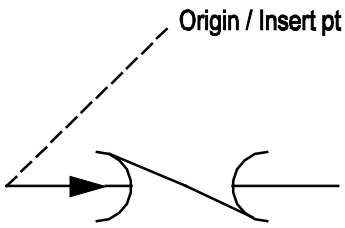	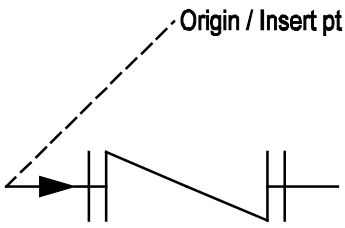
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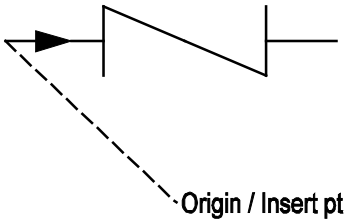
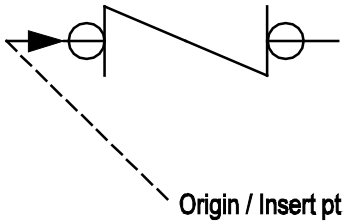
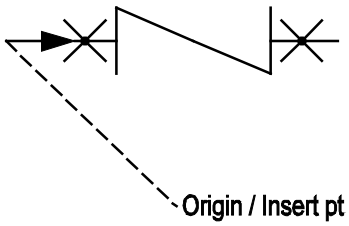
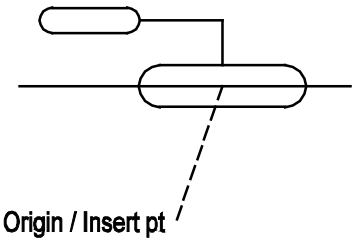
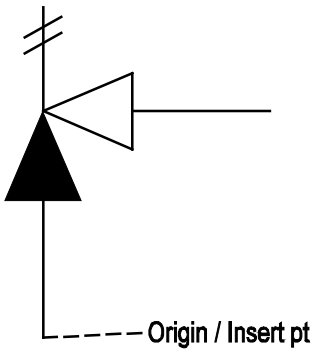
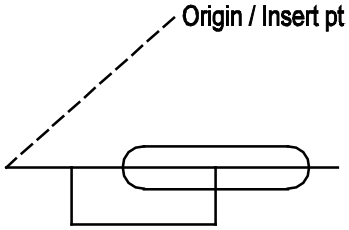
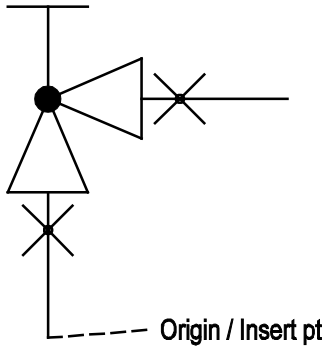
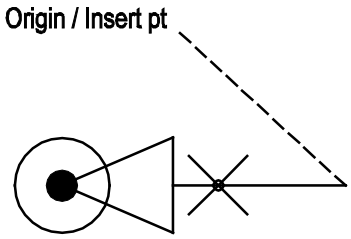
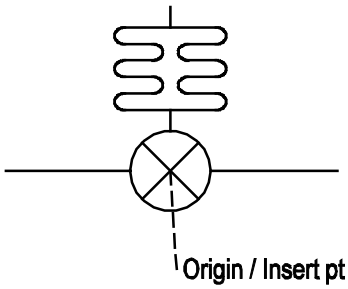
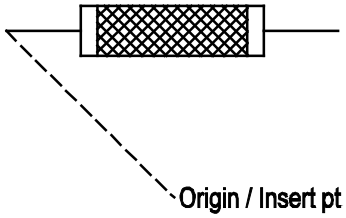
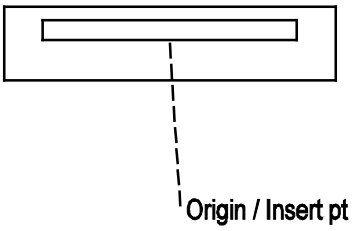
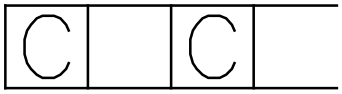
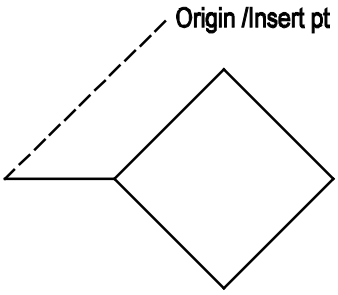
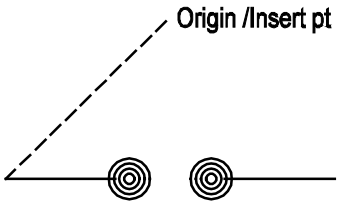
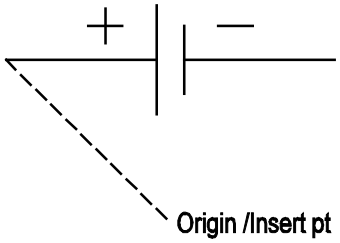
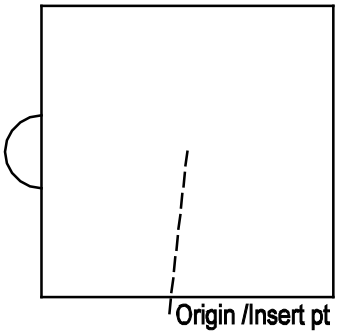
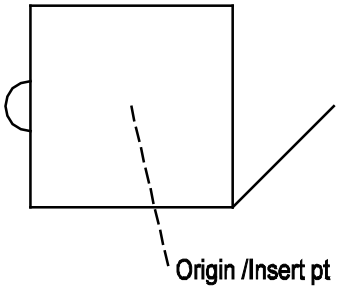
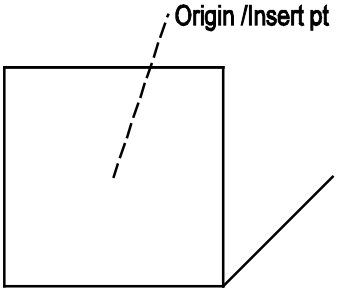
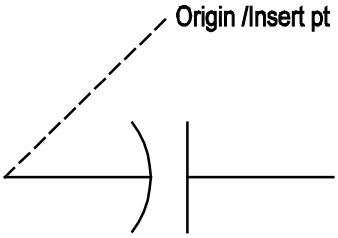
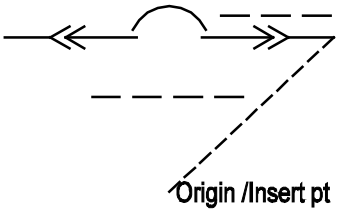
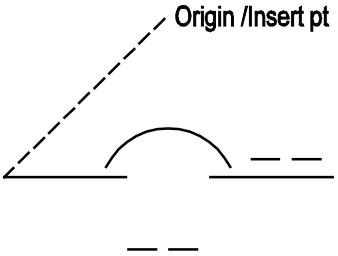
		
Mechanical: VASWSC STRGHT WAY CHECK VLV S Element Type: Symbol	Mechanical: VASWSO STRGHT WAY CHEKVLV SOL Element Type: Symbol	Mechanical: VASWWE STRGHT WAY CHECK VLV W Element Type: Symbol
		
Mechanical: VATHRM VALVE THERMOSUCTION Element Type: Symbol	Mechanical: VATPR TEMP PRESSURE RELIEF V Element Type: Symbol	Mechanical: VAVRGS VAPOR REGULATED SUCTIO Element Type: Symbol

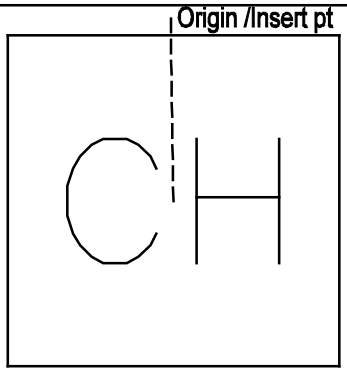
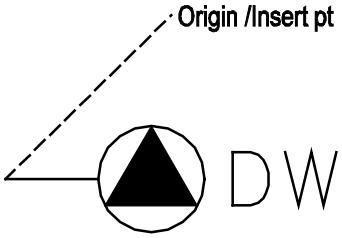
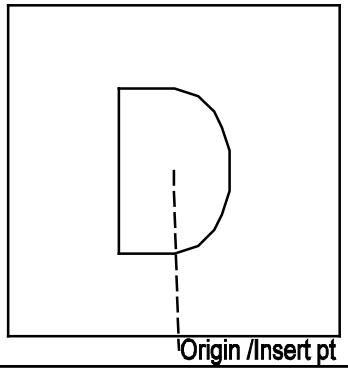
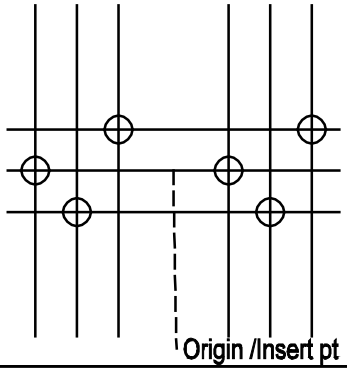
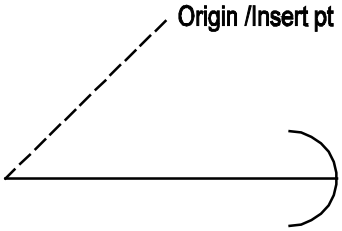
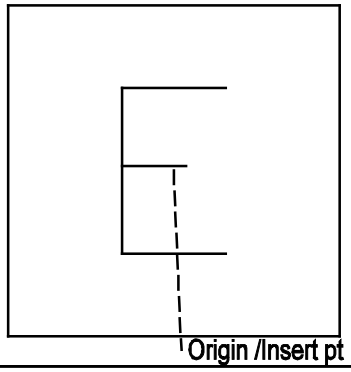
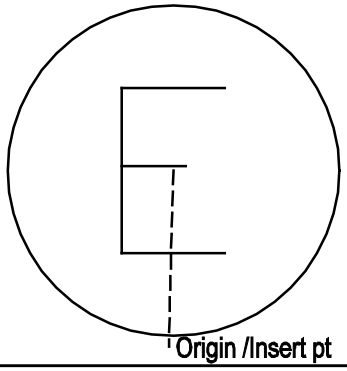
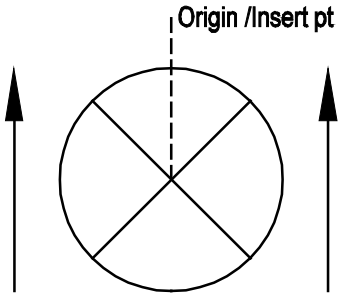
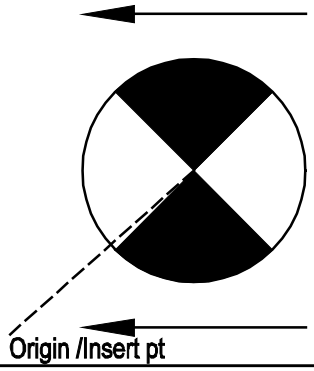
		
Mechanical: VAWEE ANGLE GLOBE VLV WELDED Element Type: Symbol	Mechanical: VAWEP ANGLE GLOBE VLV WELDED Element Type: Symbol	Mechanical: VAWTR WATER VALVE Element Type: Symbol
		
Mechanical: VIBABS VIBRATION ABSORBER Element Type: Symbol	Mechanical: VNTUNT VENTILATOR UNIT PLAN Element Type: Symbol	

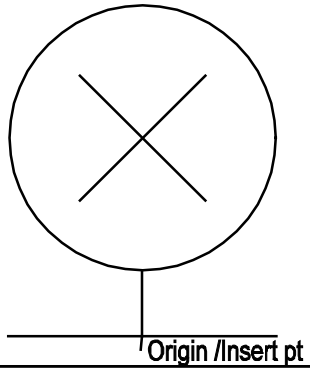
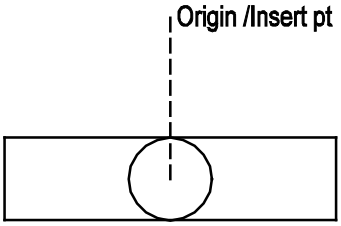
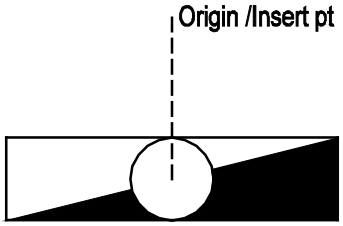
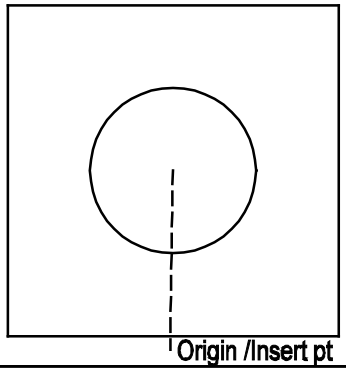
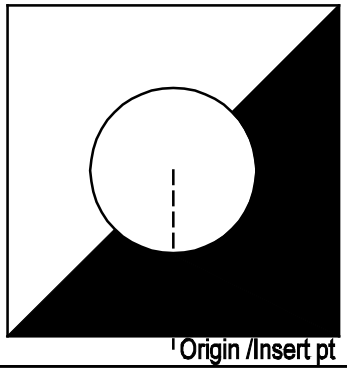
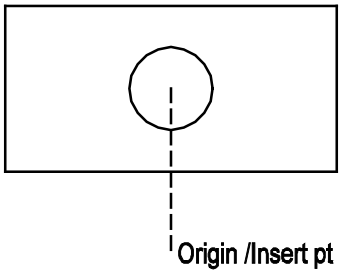
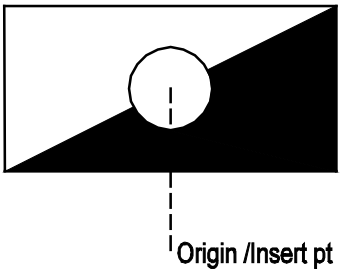
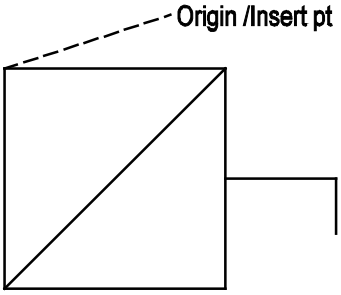
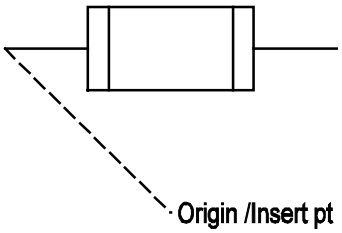
15 Electrical Lines Library

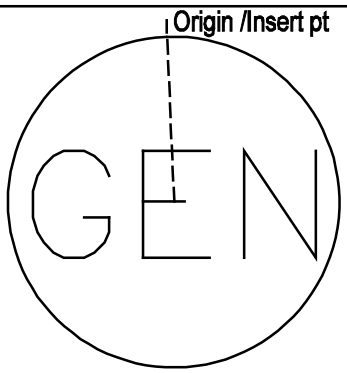
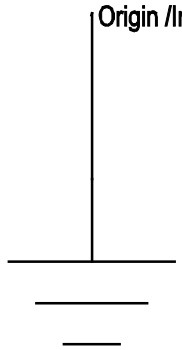
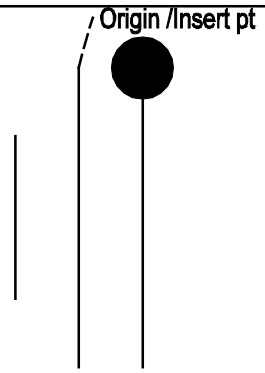
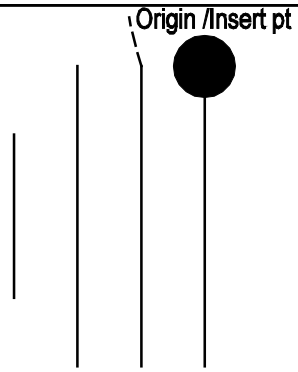
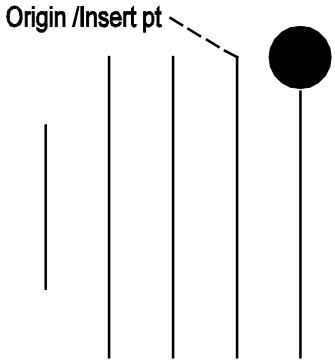
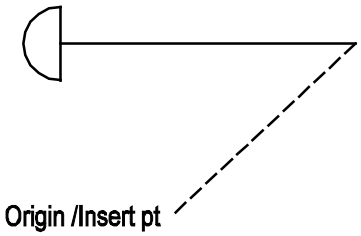
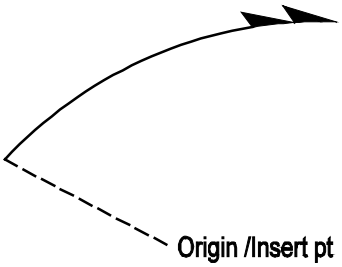
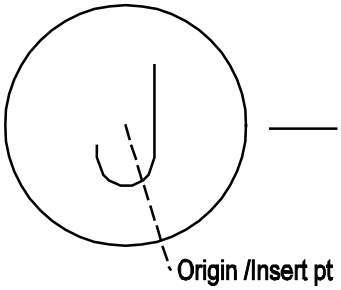
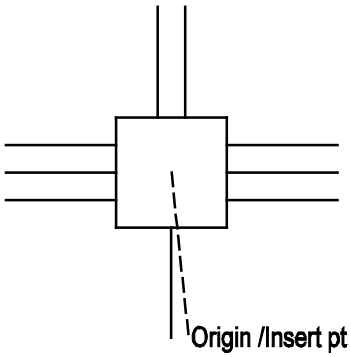
Electrical: BUSWAY BUSWAY Element Type: Line	Electrical: CONDFL FLEXIBLE CONDUIT Element Type: Line	Electrical: CONDRG RIGID CONDUIT Element Type: Line
		
Electrical: DUCTTR TROLLEY DUCT Element Type: Line	Electrical: DUCTUN UNDERGROUND DUCT LINE Element Type: Line	Electrical: LADDER CABLE LADDER Element Type: Line
Electrical: WIREWY WIREWAY Element Type: Line		

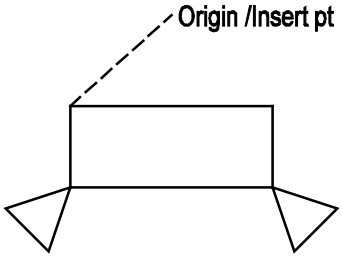
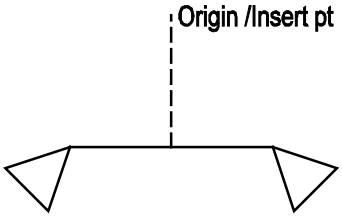
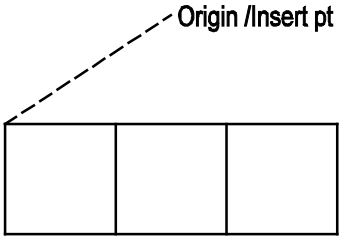
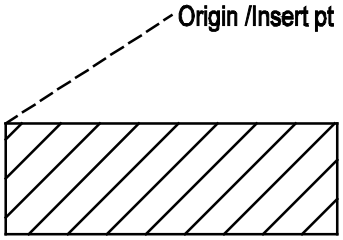
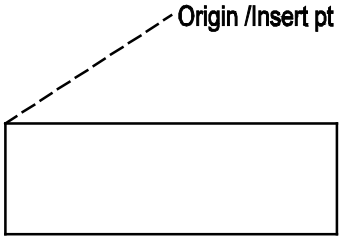
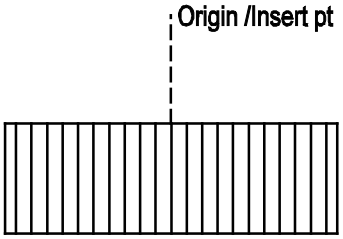
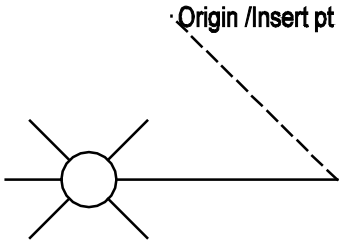
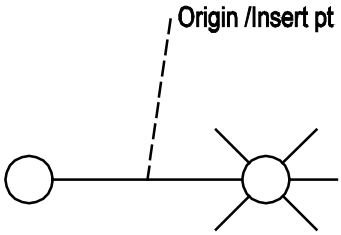
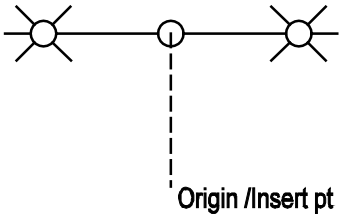
15 Electrical Symbols Library

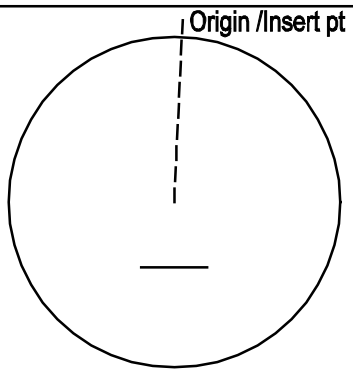
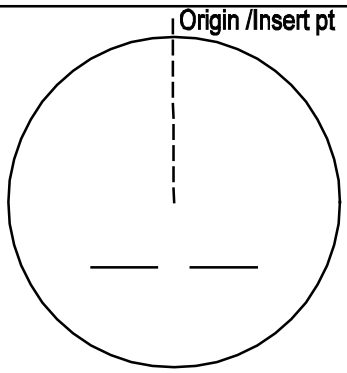
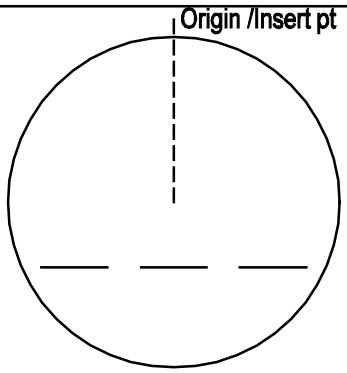
		
Electrical: ANNUN ANNUNCIATOR Element Type: Symbol	Electrical: ARREST LIGHTNING ARRESTOR Element Type: Symbol	Electrical: BATTRY BATTERY Element Type: Symbol
		
Electrical: BELL BELL Element Type: Symbol	Electrical: BELLBZ COMBINATION BELL BUZZE Element Type: Symbol	Electrical: BUZZER BUZZER Element Type: Symbol
		
Electrical: CAPCTR CAPACITOR Element Type: Symbol	Electrical: CBDOUT C.B. DRAWOUT TYPE Element Type: Symbol	Electrical: CBMCAS MOLDED CASE CIRC BREAK Element Type: Symbol

		
Electrical: CHIME CHIME Element Type: Symbol	Electrical: CONSP SPECIAL PURPOSE CONNEC Element Type: Symbol	Electrical: DOROPN ELECTRIC DOOR OPENER Element Type: Symbol
		
Electrical: DUCTCL DUCT CELL FLOOR HEADER Element Type: Symbol	Electrical: DWNGUY DOWN GUY Element Type: Symbol	Electrical: ELHHOL ELECTRICAL HANDHOLE Element Type: Symbol
		
Electrical: ELMHOL ELECTRICAL MANHOLE Element Type: Symbol	Electrical: EXITCM CEILING MNTD EXITSIGN Element Type: Symbol	Electrical: EXITOB EXIT LIGHT OUTLET BOX Element Type: Symbol

		
Electrical: EXITWM WALL MOUNTD EXIT SIGN Element Type: Symbol	Electrical: FL1X4 SURFPENDENTRECESS1X4FL Element Type: Symbol	Electrical: FL1X4E SURFPNDNTRCESS1X4FLUOR Element Type: Symbol
		
Electrical: FL2X2 SURFPENDENTRECESS2X2FL Element Type: Symbol	Electrical: FL2X2E SURFPNDNTRCESS2X2FLUOR Element Type: Symbol	Electrical: FL2X4 SURFPENDENTRECESS2X4FL Element Type: Symbol
		
Electrical: FL2X4E SURFPNDNTRECSS2X4FLUOR Element Type: Symbol	Electrical: FUSDIS FUSED DISCONNECT Element Type: Symbol	Electrical: FUSRAT FUSE WITH RATING Element Type: Symbol

		
Electrical: GENRTR GENERATOR Element Type: Symbol	Electrical: GROUND EARTH GROUND Element Type: Symbol	Electrical: HAS3MK CIRCUT CON NHG 3 HASH Element Type: Symbol
		
Electrical: HAS4MK CIRCU CON NHHG 4 HASH Element Type: Symbol	Electrical: HAS5MK CIRC CON NHHHG 5 HASH Element Type: Symbol	Electrical: HEDASW AERIAL SERVICE WEATHER Element Type: Symbol
		
Electrical: HOMERN HOME RUN TO PANELBOARD Element Type: Symbol	Electrical: JNBX JUNCTION BOX Element Type: Symbol	Electrical: JNBXUN UNDERFLOOR DUCT JUNCTI Element Type: Symbol

		
Electrical: LITEBP EMRGNCYBTTRYPWRLIGHTFI Element Type: Symbol	Electrical: LITEBR EMRGNCYBTTRY PWRLGHTRE Element Type: Symbol	Electrical: LITFLC CONTINUOUSFLRSCNT LIGH Element Type: Symbol
		
Electrical: LITFLE FLRSCNT EMRGNCY LGHT F Element Type: Symbol	Electrical: LITFLI INDIVID FLRSCNT LGHT F Element Type: Symbol	Electrical: LITPNL LIGHTING PANEL Element Type: Symbol
		
Electrical: LITSTR STREET LIGHT WITH BRAC Element Type: Symbol	Electrical: LP1A1H LIGHT POST 1 ARM 1 HEA Element Type: Symbol	Electrical: LP2A2H LIGHT POST 2 ARMS 2 HE Element Type: Symbol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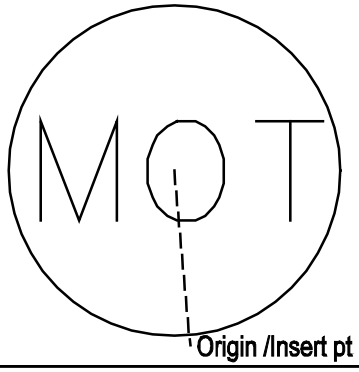
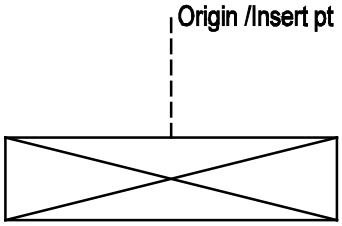
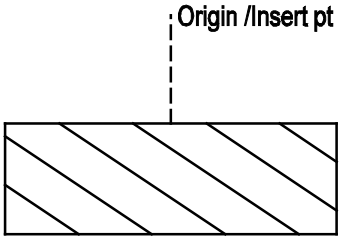
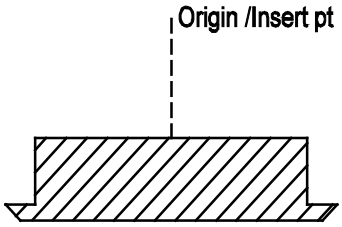
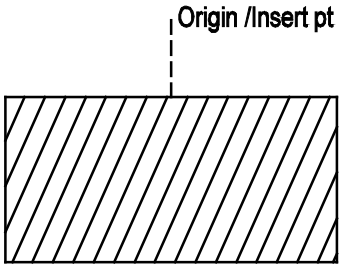
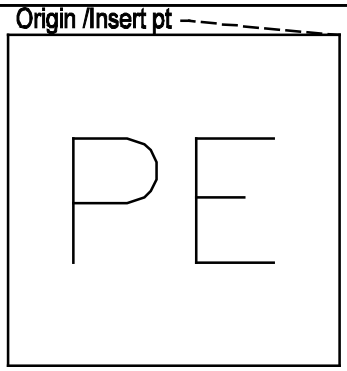
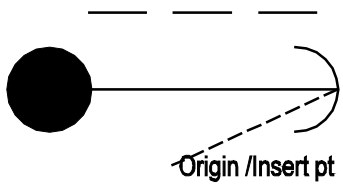
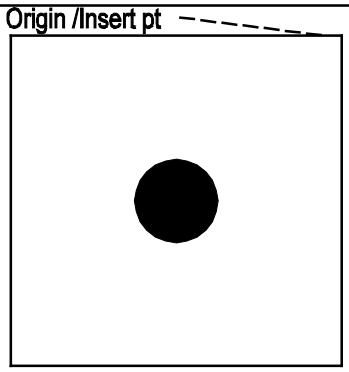
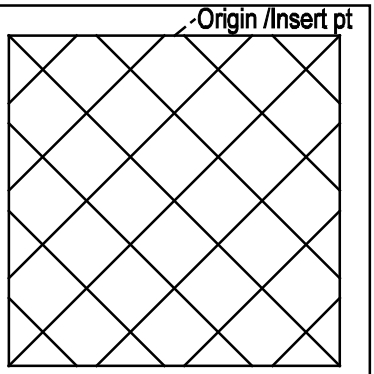
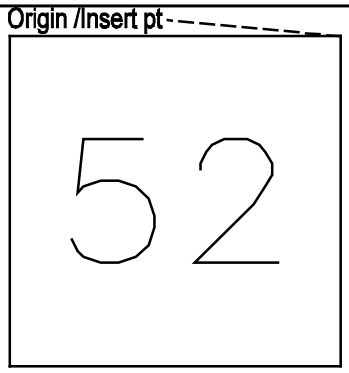
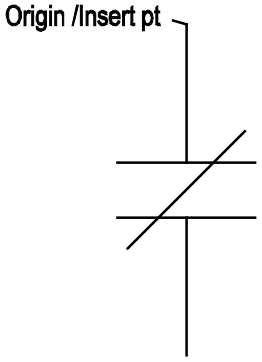
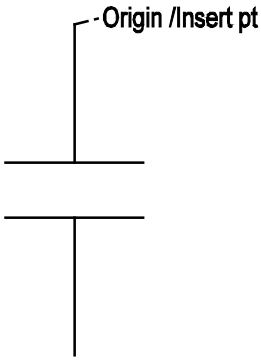
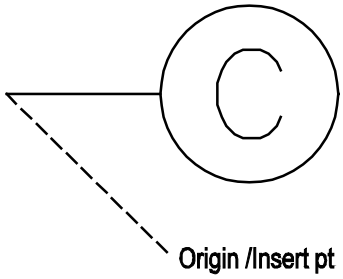
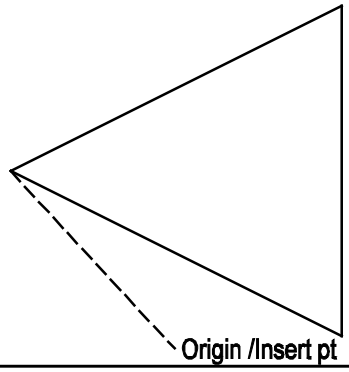
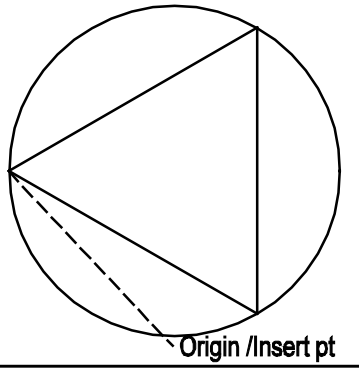
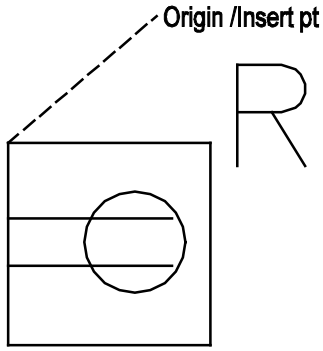
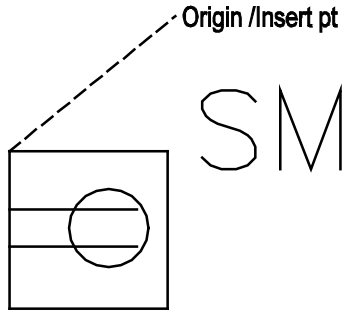
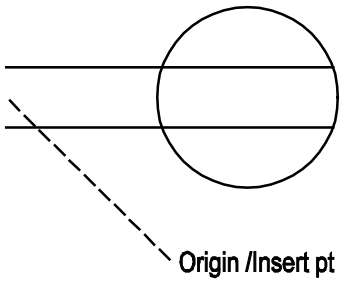
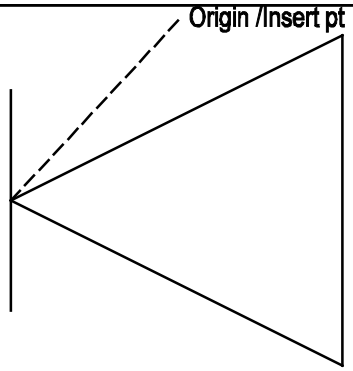
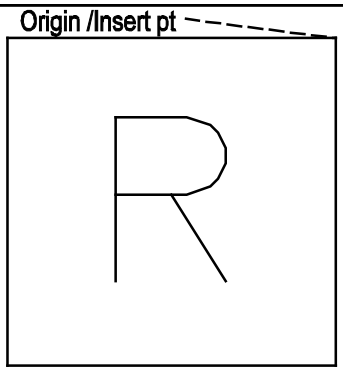
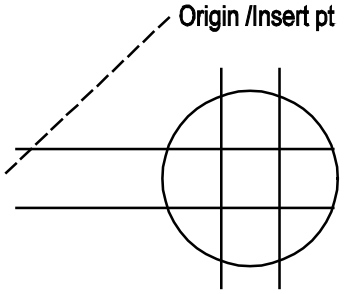
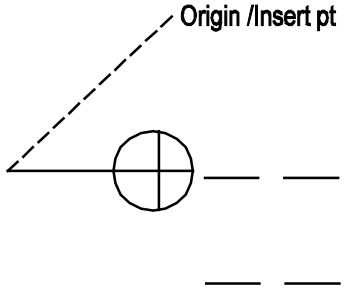
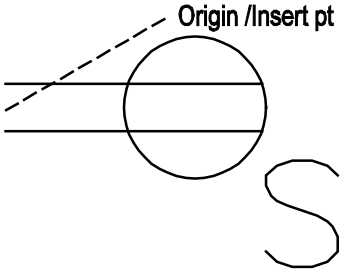
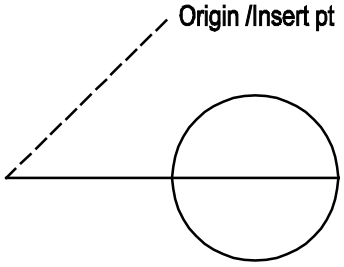
		
Electrical: MOTOR MOTOR Element Type: Symbol	Electrical: MTRCON MOTOR CONTROLLER Element Type: Symbol	Electrical: PBDIST DISTRIBUTION PANEL Element Type: Symbol
		
Electrical: PBFMC FLUSH MNTD PANELBRD CA Element Type: Symbol	Electrical: PBSMC SURFACE MNTD PANELBRD Element Type: Symbol	Electrical: PHOTO PHOTOELECTRIC RELAY Element Type: Symbol

		
Electrical: POLEAR AERIAL POLE W GUYING Element Type: Symbol	Electrical: PSHSTA ONE PUSHBUTTON STA Element Type: Symbol	Electrical: PULBOX PULLBOX Element Type: Symbol
		
Electrical: PWRDVC POWER SYSTEM DEVICE AN Element Type: Symbol	Electrical: RCNC NORMALLY CLSD RELAY CO Element Type: Symbol	Electrical: RCNO NORMALLY OPEN RELAY CO Element Type: Symbol
		
Electrical: RECCLK CLOCK HANGER RECEPTACL Element Type: Symbol	Electrical: RECDC DATACOMM RECEPTACLE OU Element Type: Symbol	Electrical: RECDCF DATACOMMFLRRECEPTACLEO Element Type: Symbol

		
Electrical: RECDRM DOUBLERECESMOUNTFLOORO Element Type: Symbol	Electrical: RECDSM DOUBLESURFMOUNTFLOOROU Element Type: Symbol	Electrical: RECDUP DUPLEX RECEPTACLE Element Type: Symbol
		
Electrical: RECINT INTERCONNECTING TELEPH Element Type: Symbol	Electrical: RECLOS RECLOSER AERIAL AUTOMA Element Type: Symbol	Electrical: RECQUA QUADRAPLEX RECEPTACLE Element Type: Symbol
		
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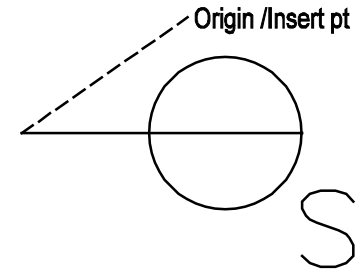
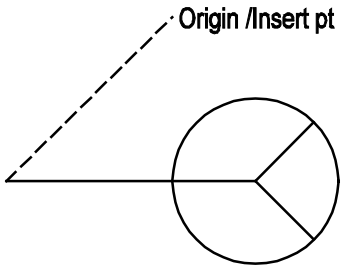
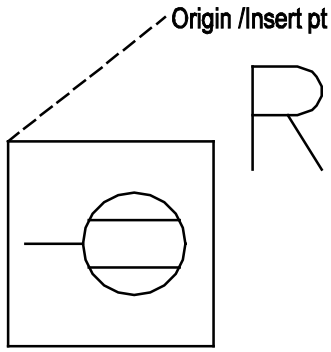
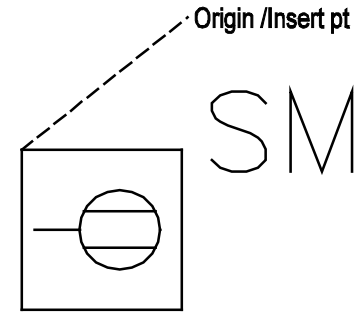
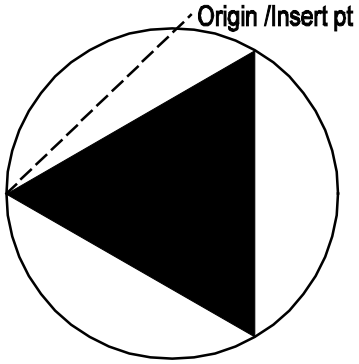
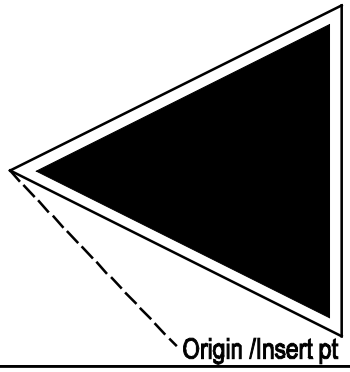
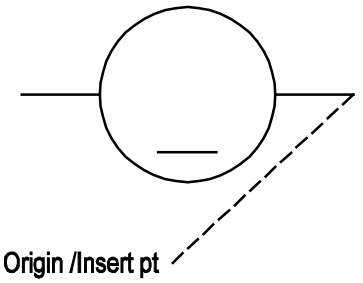
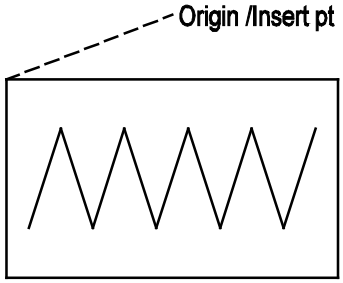
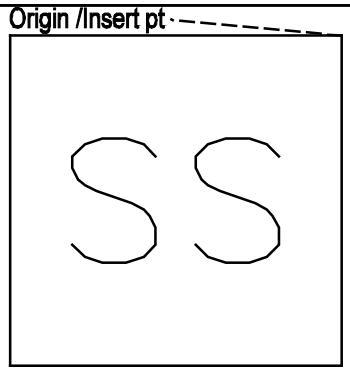
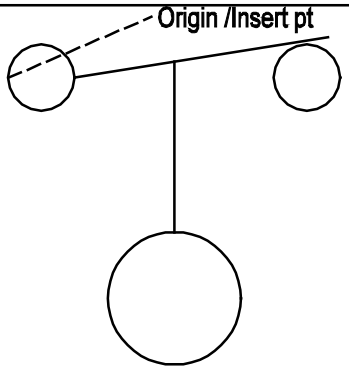
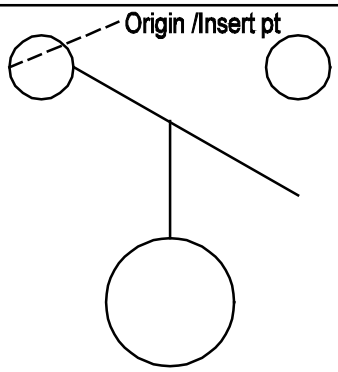
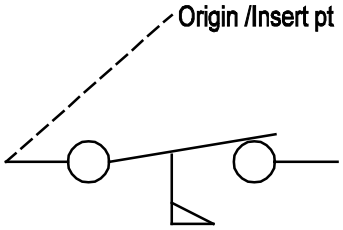
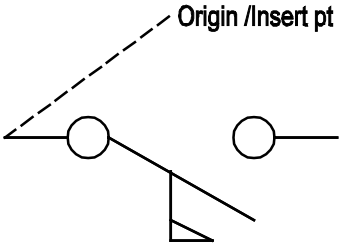
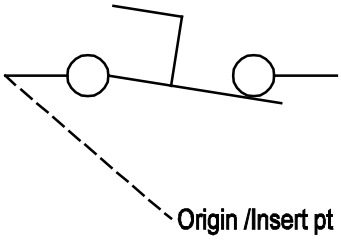
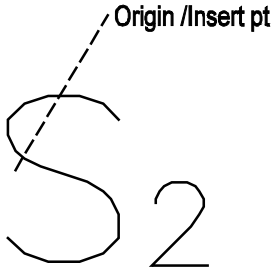
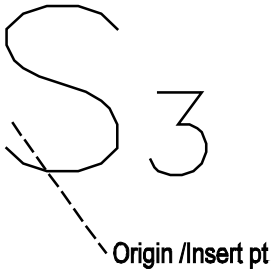
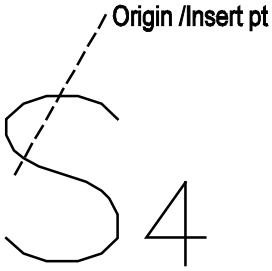
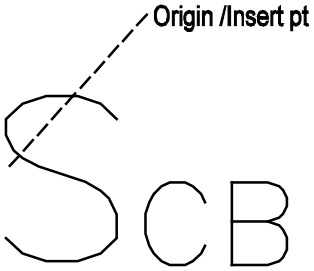
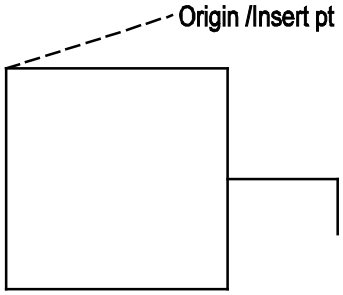
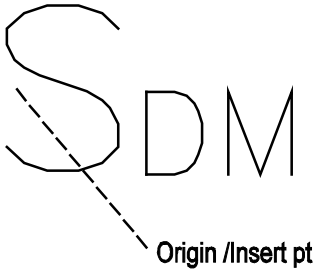
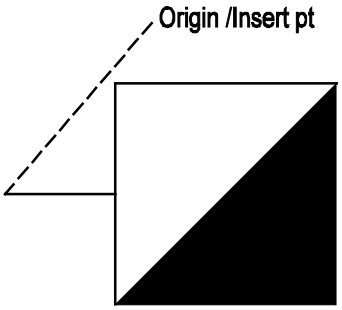
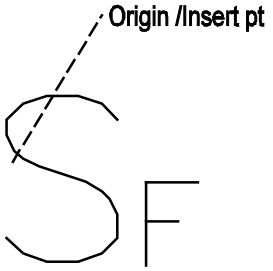
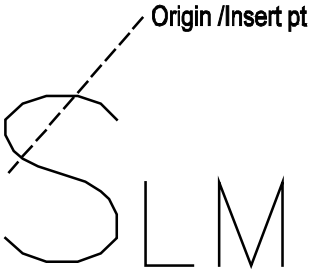
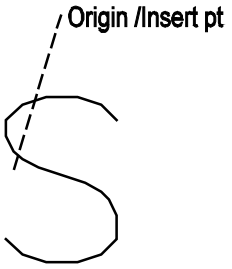
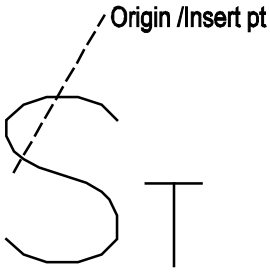
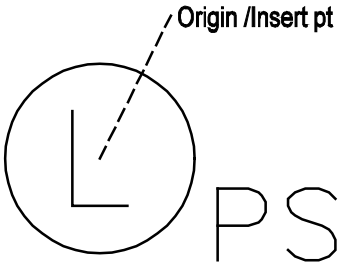
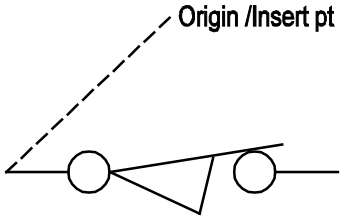
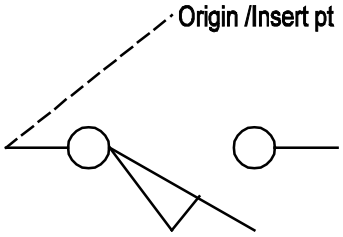
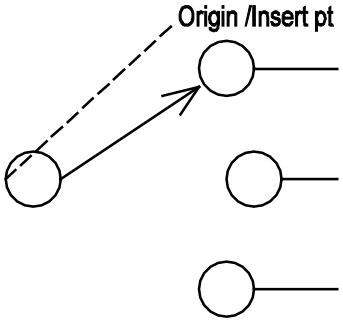
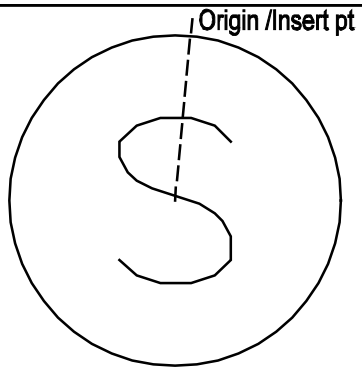
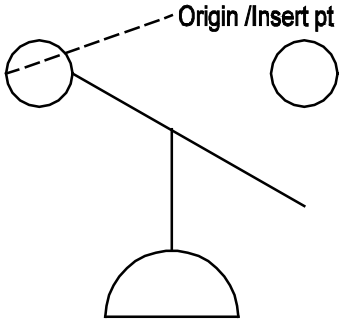
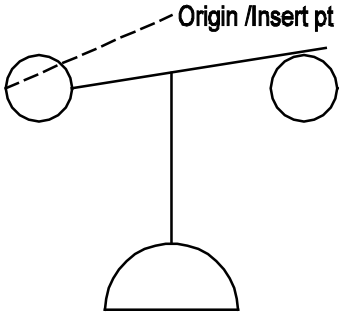
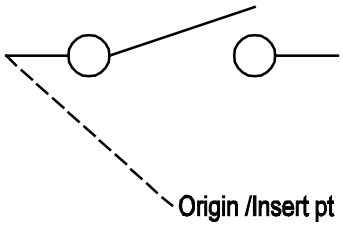
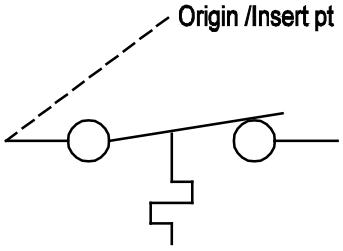
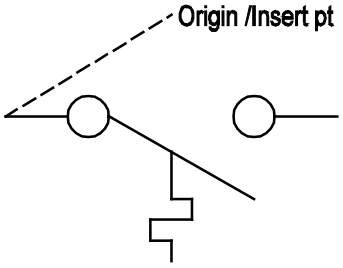
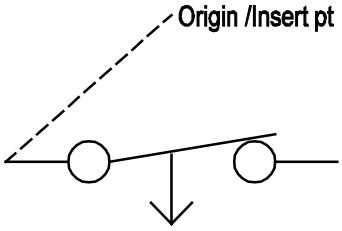
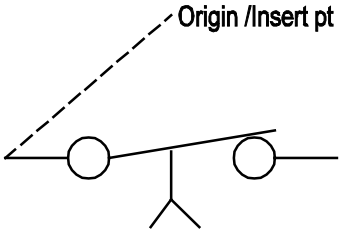
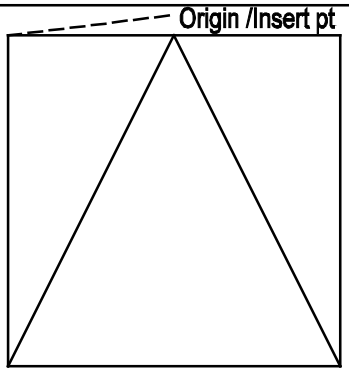
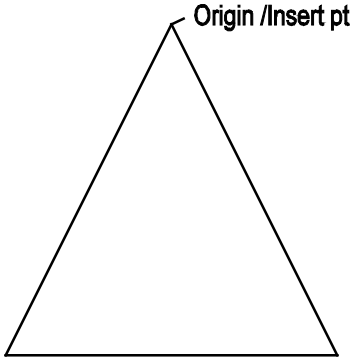
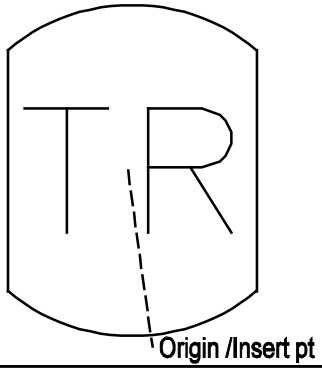
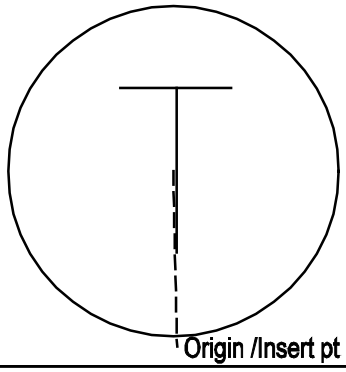
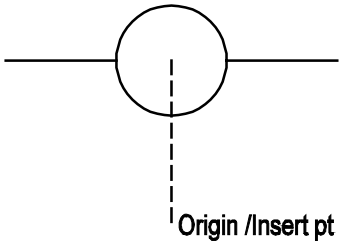
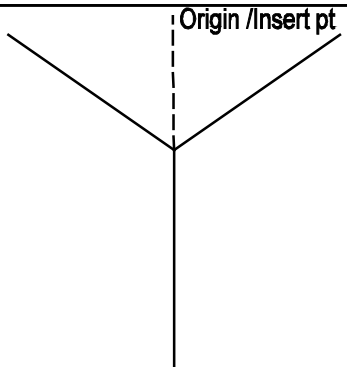
		
Electrical: RECSNS SNGL RECEPTACLE WITH S Element Type: Symbol	Electrical: RECSPR SPECIAL PURPOSE RECEPT Element Type: Symbol	Electrical: RECSRM SINGLERECESSMOUNTFLOOR Element Type: Symbol
		
Electrical: RECSSM SINGLESURFMOUNTFLOOROU Element Type: Symbol	Electrical: RECTEF PHONE FLR RECEPTACLE O Element Type: Symbol	Electrical: RECTEL TELEPHONE RECEPTACLE O Element Type: Symbol
		
Electrical: RELYOP RELAY OP COIL Element Type: Symbol	Electrical: RESHTR ELECTRIC RESISTANCE HE Element Type: Symbol	Electrical: SECTAA SECTIONALIZER AERIAL A Element Type: Symbol

		
Electrical: SWFLNC NORMALLY CLOSED FLOAT Element Type: Symbol	Electrical: SWFLNO NORMALLY OPEN FLOAT SW Element Type: Symbol	Electrical: SWFNC NORMALLY CLOSED FLOW S Element Type: Symbol
		
Electrical: SWFNO NORMALLY OPEN FLOW SWI Element Type: Symbol	Electrical: SWFONC NORM CLSD FOOT OPRTD S Element Type: Symbol	Electrical: SWI2WY DOUBLE POLE SWITCH Element Type: Symbol
		
Electrical: SWI3WY THREE WAY SWITCH Element Type: Symbol	Electrical: SWI4WY FOUR WAY SWITCH Element Type: Symbol	Electrical: SWICB CIRCUIT BREAKER Element Type: Symbol

		
Electrical: SWIDIS DISCONNECT SWITCH Element Type: Symbol	Electrical: SWIDM1 DIMMER Element Type: Symbol	Electrical: SWIDM2 DIMMER SWITCH Element Type: Symbol
		
Electrical: SWIFUS FUSED SWITCH Element Type: Symbol	Electrical: SWIKEY KEY OPERATED SWITCH Element Type: Symbol	Electrical: SWILVM LOW VOLTAGE MASTER SWI Element Type: Symbol
		
Electrical: SWITCH SINGLE POLE SWITCH Element Type: Symbol	Electrical: SWITIM TIMER OPERATED SWITCH Element Type: Symbol	Electrical: SWLAMP LAMP HOLDER POLE SWITC Element Type: Symbol

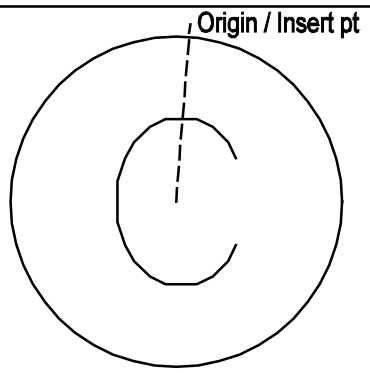
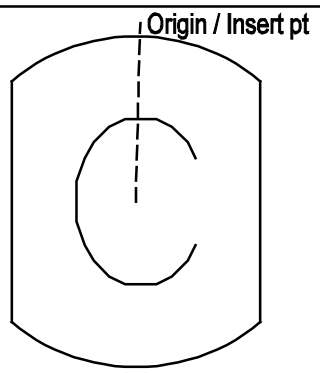
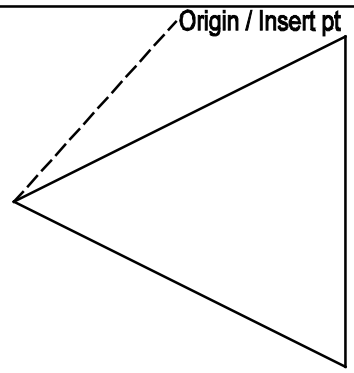
		
Electrical: SWLNC NORMALLY CLOSED LIMIT Element Type: Symbol	Electrical: SWLNO NORMALLY OPEN LIMIT SW Element Type: Symbol	Electrical: SWMULT MULTIPOSITION SWITCH Element Type: Symbol
		
Electrical: SWPCM CEILING MOUNTED PULL S Element Type: Symbol	Electrical: SWPCOI PRES SWTCH CLSE ON INC Element Type: Symbol	Electrical: SWPOOI PRESS SWTCH OPN ON INC Element Type: Symbol
		
Electrical: SWSBRK SINGLE BREAK SWITCH Element Type: Symbol	Electrical: SWTANC NORMCLSDTEMPACTIVATEDS Element Type: Symbol	Electrical: SWTANO NORMOPNTEMPACTIVATEDSW Element Type: Symbol

		
Electrical: SWTDNC NORM CLSD TIME DELAY S Element Type: Symbol	Electrical: SWTDNO NORM OPEN TIME DELAY S Element Type: Symbol	Electrical: TRNPAD PAD MOUNTED TRANSFORME Element Type: Symbol
		
Electrical: TRNPOL POLE MOUNTED TRANSFORM Element Type: Symbol	Electrical: TRVALT TRANSFORMER VAULT Element Type: Symbol	Electrical: TSTAT THERMOSTAT Element Type: Symbol
		
Electrical: UTPOLE UTILITY POLE Element Type: Symbol	Electrical: WYECON XFMR WYE CONNECTION Element Type: Symbol	

16 Telecommunications Lines Library

FO	T
Telecommunications: FIBOPT FIBER OPTICS LINE Element Type: Line	Telecommunications: PHONE TELEPHONE LINE Element Type: Line

16 Telecommunications Symbols Library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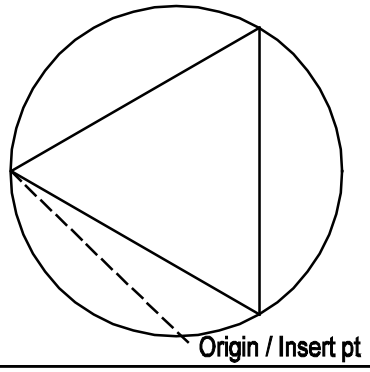	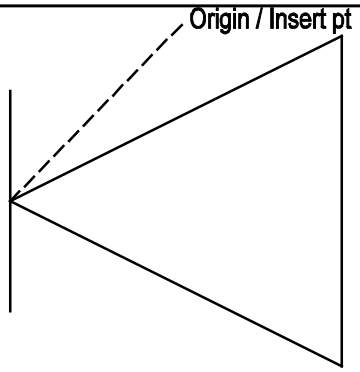	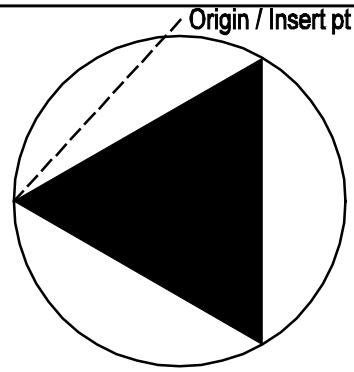
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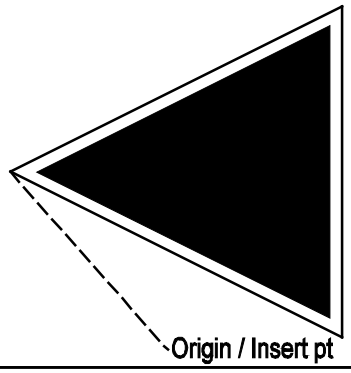	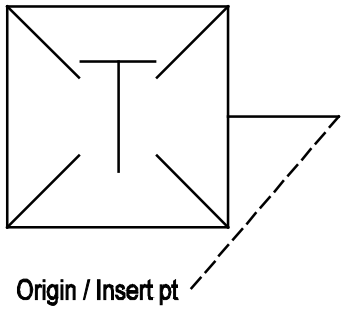	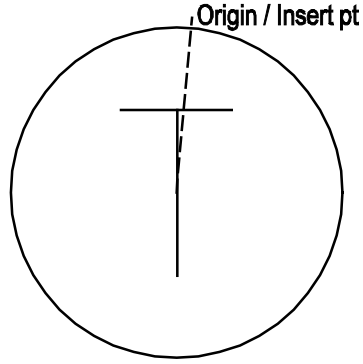
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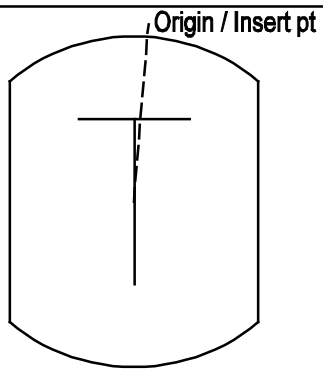	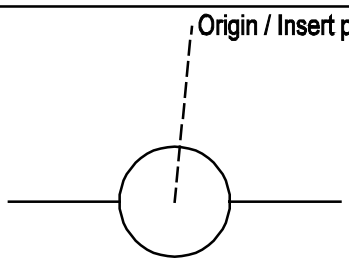
Telecommunications: TEVALT TELEPHONE VAULT Element Type: Symbol	Telecommunications: UTPOLE UTILITY POLE Element Type: Symbol