

Engineering CAD Standard

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	Design	DIVISION	OAD	olandara

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CHANGES TO THE STANDARDS 2020

2020	File/Section	Description
	1.7 Project Directory (Vault)	Vault Section and information Deleted
	1.11 Compliance CAD Report	Updated Images
	1.15 Appendix A through Appendix E	Moved to the beginning of the appendices
	1.17 – Contract Border and Title Sheets	Updated Images
	1.9 Confidential and Con fidential Privilege Projects	Updated Images
	1.6.1 through 1.6.4	Moved to the beginning of 1.6 CAD Practice section
	1.5.3.1 General Folder Rules	New table displaying the general rules of each folder in the folder structure
	1.5.5.4.1 Plotsheet Plan Type	New Plan types added for Index of Drawings and Cover Sheets
	1.9.2 Confidential Projects	The use of the Cover Sheet for Confidential Drawings
	1.9.3 Confidential Privilege Projects	The use of the Cover Sheet for Confidential Priviliged Drawings
	1.9.4 C & CP Contract Drawing Set	New requirements for the creation of the contract set containing Unmarked, C and CP content

1.0 CAD STANDARD

1.1 FOREWORD

The CAD Standard outlined within this document was established to provide guidance for the preparation of the Engineering / Architecture (E/A) Design Division and Construction Division (CMD) of the Port Authority of New York and New Jersey's (PANYNJ) contract documents.

This document is intended for use by both in-house personnel as well as outside consultants involved in creating or updating PANYNJ facilities' Computer Aided Drafting (CAD) data.

1.2 PURPOSE

This Standard establishes requirements and procedures for the preparation and milestone records (submissions) of CAD based drawings throughout the project life cycle. Adherence to this standard ensures that the Design and Construction Divisions of the PANYNJ shall produce andreceive data in a consistent format. The adherence to the PA Standard also ensures the consistency of the information the information within each discipline and the efficient exchange of information between disciplines.

The level of required understanding of the CAD Standard determines by the role of individual assign to the project. For CAD operators, designers, and functional supervisors a thorough knowledge of all CAD related elements associated with a project is crucial. The project manager however only requires a general knowledge of the EAD CAD Standard and the means by which it is employed to create a project. Both levels of knowledge will be possible through the use of this manual.

The CAD system adopted by the PANYNJ is comprised of several Autodesk products. Throughout this manual terminology and references will be made that are unique to Autodesk and primarily, different AutoCAD based software applications.

Supported Design Software Products AutoCAD 2018 AutoCAD Architecture 2018 AutoCAD Civil 3D 2018 AutoCAD Map 3D 2018 AutoCAD MEP 2018 AutoCAD Raster Design 2018

1.2.1 ABOUT THIS STANDARD

The chapters within this standard describe how the E/A Design Division and CMD Construction Division uses AutoCAD and how to configure AutoCAD to support the E/A Design Division and CMD Construction Division CAD Standard, which it has adopted.

The appendices, which follow, support the chapters in several ways. Each discipline has been assigned an appendix to explain information specific to their functional group. In addition, appendices have been provided to support CAD related subject matter, which is common throughout all disciplines. Finally, some appendices have been created to support internal E/A Design Division staff only; these appendices will be for internal use; however, they have been supplied with the document for both in-house and consultant staff.

1.3 ACRONYMS AND ABBREVIATIONS

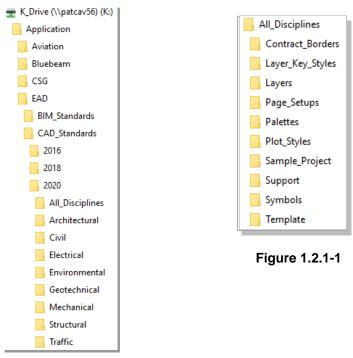
Acronym	Definition		
APJ	Autodesk Project File		
C3D	Autodesk AutoCAD Civil 3D		
С	Confidential		
CMD	Construction Management Division		
CP	Confidential Privileged		
СТВ	Color Dependent Plot Style Table		
DST	Drawing Sheet File		
DWG	AutoCAD drawing file		
DWT	AutoCAD template file		
EAD	Engineering Architecture Design		
EOL	Engineering on Line		
EOP	Engineer of Projects		
FAC	Facility Code		
K:\	Internally Mapped Network Drive pointing to <u>\\Patcav56\K_Drive</u>		
LE/A	Lead Engineer or Architect		
LT	Linetype scale		
M:\	Internally Mapped Network Drive pointing to <u>\\Patccsrv2\Cad\Cad</u>		
MEP	Autodesk AutoCAD MEP		
MS	Model Space		
N:\	Internally Mapped Network Drive pointing to <u>\\Patccsrv1\Cad\Archive</u>		
PANYNJ	Port Authority of New York and New Jersey		
PC3	Plotter Configuration file		
PDF	Portable Document Format file		
PID	Project Identification Number		
PMP	Plotter Model Parameter file		
PS	Paper Space		
RVT	Autodesk Revit		
VDC	Virtual Design and Construction		

The following are Acronyms and Abbreviations used throughout this document.

1.4 ACCESSING CAD STANDARD

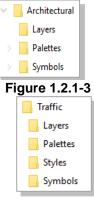
The CAD Standard includes a series of support files. All support files are provided in a folder named "CAD_Standards\2018", which is located on <u>K:\Application\EAD\CAD_Standards\2018</u> folder of the PANYNJ network for in-house user.Consultant can download the standards and supporting files in <u>Port</u> <u>Authority NY & NJ Engineering Available Documents</u>. The "CAD_Standards\2018" folder contains one general "All_Disciplines" sub-folder and eight discipline specific sub-folders as illustrated in **Figure 1.2.1-2**.

E/A Design Division CAD Standard





The "All_Disciplines" sub-folder contains all cross-discipline support files. Both folder structures for PA employees and on-site consultants are illustrated in Figure 1.2.1-1.



Each Discipline sub-folder is divided into three sub-folders which contain all the discipline specific support files. An example of this folder structure is illustrated in Figure 1.2.1-3.

The layer and symbol content for each discipline can be referenced in the appendices.

The Traffic and Geotechnical sub-folders contain one additional folder – styles. Figure 1.2.1-4 displays the folder structure that is shared by Traffic and Geotechnical.

Figure 1.2.1-4

The Civil discipline contains folders for civil3d objects in addition to the sub-folders mentioned before. Figure 1.2.1-5 demonstrates the folder structure for the civil discipline.

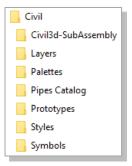


Figure 1.2.1-5

1.4.1 USING THE STANDARD FILES

The CAD_Standards directory contains two primary types of files: files that do not require ongoing user interaction and files that do.

The first type refers to support files accessed automatically by AutoCAD once they have been copied to the proper support folders. Outside consultants should copy these files to the appropriate directories or create an AutoCAD profile pointing to the files as necessary, refer to **1.5 Project Directory Structure and File Naming Convention.**

The second type refers to files such as which the user must configure within the project. For instructions on creating a title sheet or working with the contract borders, refer to **1.8 Plan Set Preparation**.

1.4.2 AUTOCAD CIVIL 3D

When using C3D, project design and data should be stored in the MODEL folder of the appropriate discipline.

M:\<Facility Name>\<PID Number>\<Discipline>\Model\

Consultantshall make sure the path for the design or data content in the model folder to be ste as a relastive path as such:

.....<PID Number>\<Discipline>\Model\

For a more in depth breakdown on how to use C3D within the PANYNJ reference the Civil 3D Standard which is included within **1.21.5 Civil 3D**. For C3D requirements go to VDC Requirements.

1.5 **PROJECT DIRECTORY STRUCTURE AND FILE NAMING CONVENTION**

The E/A Design Division CAD Standard provides a structure for the organization of CAD projects within the department to improve coordination between functional groups of E/A Design Division and its consultants.

1.5.1 **PROJECT DIRECTORY STRUCTURE**

Internally CAD projects are stored on the CAD volume, with an internal mapping to the drive letter "M:\". The "M:\" drive contains a sub-directory for each facility named using its facility code as displayed in Table 1.5.1-A.

Facility Code	Facility Name
AMT	Automobile Marine Terminal
iii BB	Bayonne Bridge
📒 BRKMT	Brooklyn Port Authority Marine Terminal
iii EP	Elizabeth Port Authority Marine Terminal
📒 EWR	Newark Liberty International Airport
FERRY	Ferry Transportation
iiii GB	Goethals Bridge
📒 GWB	George Washington Bridge and Bus Terminal
HCMF	Harrison Car Maintenance Facility
📒 HELI	Downtown Manhattan Heliport
iiii HH	Howland Hook Marine Terminal
📒 HT	Holland Tunnel
ipy 📃	Industrial Park at Yonkers
📒 JFK	John F. Kennedy International Airport
📒 JSTC	Journal Square Transportation Center
📒 LGA	LaGuardia Airport
📒 LT	Lincoln Tunnel

	Multi Facility Decidate
MULTI	Multi Facility Projects
NFC	Newport Financial Center
📒 NJMT	New Jersey Marine Terminals
NLCC	Newark Legal and Communication Center
iii obx	Outerbridge Crossing
📒 PABT	Port Authority Bus Terminal
PACD	Port Authority Police Academy
PATC	Port Authority Technical Center
📁 PATH	Port Authority Trans-Hudson Corporation
📒 PHQ	Police Headquarters
📒 PJ	Port Jersey
PN 🐖	Port Newark
PRTC	Police Rescue Training Center
RLLC	Cross Harbor Rail Road NY/NJ
📒 SWF	Stewart International Airport
iiii TEB	Teterboro Airport
📜 TLPT	Staten Island Teleport
iiii WTC	World Trade Center

1.5.2 PROJECT IDENTIFICATION NUMBER

The Project Identification Number (PID) is a unique Identification assigned for all EAD projects.

Table 1.5.1-A

The EOP is responsible for getting the PID number from the Facility Project Manager at the kick-off meeting and distributing it to all discipline task leaders involved in the project. The LE/A is responsible for distributing the PID number to their outside consultants. The LE/A will request the creation of the project folder structure through the use of the on-line form by selecting the following link <u>Project Folder Creation Request Form</u>. Refer to **1.19.6 Request Project Folder Structure**.

The "M:\" drive is divided into Facility Folders, each containing project specific sub-folders. These project folders are named using the eight (8)-digit PID number. **Figure 1.5.1-1** illustrates this concept using a project at Goethals Bridge with a PID number of 01234567.

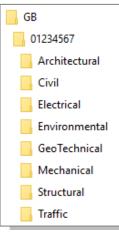


Figure 1.5.1-1

1.5.3 DISCIPLINE FOLDERS

Every discipline is provided with a folder in the project directory in which all design related data is to be stored. Each discipline folder has a series of standardized sub-folders which are to contain the various types of design data.

Figure 1.5.3-1 illustrates these standardized sub-folders using the Architectural folder as an example.

The Model, Plotsheet and Publish folders should always contain the current version of all CAD drawings related to the project.

For more information on the usage of these folders refer to the section titled Discipline Folder Rules of this standard.

For more information on the Plotsheets_CP and PDF_CP folders refer to **1.9 Confidential & Confidential Privileged Projects** of this standard.

1.5.3.1 GENERAL RULES OF THE DISCIPLINES FOLDERS

All folders have a pre-set of rules that inhouse and consultant shall follow. The rules on **Table 1.5.3-A** displays, for specific discipline, the use of each folders for consistency through out the projects for the Port Authority. For more information on each folders reference section **1.5.3.2** Rules of the **FromOtherProjects Folder** through section **1.5.3.14** Rules of the **MileStoneSubmissions Folder**.

Folder		Fol	der Rules	
	Sub-folders Permitted	Read-write Permissions	Access for Other Disciplines (Read Permission)	Archived
From Other Projects	\checkmark	\checkmark		
Management Docs	\checkmark	\checkmark		\checkmark
Model		\checkmark	~	\checkmark
Photos	~	\checkmark	~	✓
Plotsheet		\checkmark	~	\checkmark
PDF		\checkmark	~	✓
Publish		\checkmark	~	✓
History	\checkmark	\checkmark	~	✓
Data Shortcut	✓	\checkmark	~	✓
Received	√	\checkmark		
Released	✓	\checkmark		
Schemes	\checkmark	\checkmark		
Shared Docs	✓	✓	~	
Submission	\checkmark	\checkmark	✓	\checkmark

Table 1.5.3-A

Architectural
FROMOTHERPROJECTS
MANAGEMENTDOCS
MODEL
PHOTOS
PLOTSHEETS
PUBLISH
RECEIVED
RELEASED
SCHEMES
SCRATCH
SHAREDDOCS
SUBMITTALS

Figure 1.5.3-1

1.5.3.2 RULES OF THE FROMOTHERPROJECTS FOLDER

The FromOtherProjects folder will contain drawings and data that have been taken from other projects that relate to the current project. If a file from another project is required for reference purposes only and is not going to be included as part of the contract set it will be stored in this directory. If a file is required to be part of the contract set, then it will be copied to the Model folder and must comply with the current CAD Standard. Related contracts and reference documents are shared in Livelink with the consultants in Stage I through Stage III.

1.5.3.3 RULES OF THE MANAGEMENTDOCS FOLDER

The ManagementDocs folder will contain all non-drawing related project data. Spreadsheets, documents, specifications, memos, estimates, etc. will be stored in this folder.

1.5.3.4 RULES OF THE MODEL FOLDER

All design work and annotation must be stored inside AutoCAD drawings saved within the Model folder. The CAD Standard refers to these design drawings as Model files.

Images and Office documents referenced or linked by drawing files will also be stored in the Model folder and must comply with the rules for Model files. References to OLE objects are not permitted. Follow the rules on **Table 1.5.3-A** for the rules of the folder. The only exception to the creation of sub-folders are the folders created when ACA, C3D and MEP are used.

1.5.3.5 RULES OF THE PHOTOS FOLDER

The Photos folder will contain all digital photographs relevant to the project, with the exception of those used on contract drawings. Drawings are not permitted to reference photographs from this folder. In order to reference a photograph within a drawing file, copy the image into the Model folder and refer to **1.5.3.4 Rules of the Model Folder** for proper usage. There are no file naming requirements for images stored within the folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.6 RULES OF THE PLOTSHEETS FOLDER

All layouts for plotted sheets will be saved inside AutoCAD drawings stored within the Plotsheets folder. The CAD Standard refers to these layout drawings as Plotsheet Files. These files are assembled sheets used for plotting. These drawings consist of a series of external references. Only Plotsheets files will be stored within this folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

All paper drawings in the Contract Set will have a corresponding Plotsheet file in the Plotsheets folder, the only exception is the Title Sheet.

1.5.3.6.1 Rules of the PDF Folder

A PDF is an industry standard non-editable file format. Refer to section 1.5.5.5 for PDF requirements.

The PDF folder will always contain the most recent milestone version of the PDF file(s). Earlier milestone files once copied to the SUBMITTALS folder for the milestone will be either deleted from the PDF folder or overwritten in place.

1.5.3.7 RULES OF THE PUBLISH FOLDER

The Publish folder will be used as a sharing mechanism between disciplines. A discipline may copy Model files into its own Publish folder, making them available for other disciplines to reference. Other disciplines are not permitted to copy these files but will instead externally reference them directly from the owner's Publish folder. The lead discipline's Publish folder will contain the Contract Border for the project.

There will be only one Contract Border per project. The only exception to this rule is when new drawings are added to the Contract Set as part of a Stage IV – PACC. Refer to 1.6.12.7 Stage IV_PACC for instructions.

It is important that this methodology for referencing design files from other disciplines be followed. If a user copies design files from another discipline's Model, Plotsheets or Publish folder then they must take ownership of the file. By taking ownership the discipline copying the file will then be responsible for all CAD Standards compliance of that file as if it were created by that discipline. Only copies of Model files for other disciplines to references shall be stored in the Publish folder. The owning discipline is not able to reference file from its own Publish folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.8 RULES OF THE HISTORY FOLDER

The History folder is the only sub-folder permitted within the Publish folder. If a single file is to be published more than once, the file that exists in the Publish folder will be moved to a dated sub-folder within the History folder. The updated version of the file will then be copied into the root of the Publish folder. This will allow other disciplines to continue to reference older or time-phased versions of reference drawings if required by their design schedule by changing the external reference path to the dated sub-folder within the History folder. Only copies of previously published files will be copied to the History folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.9 RULES OF THE _DATASHORTCUTS FOLDER

The _DataShortcuts folder is only populated in the folder structure for disciplines that use AutoCAD Civil3D as an authoring application. This folder exists only under CIVIL and GEOTECHNICAL Publish folder.

- This is the folder selected when setting up the Data Shortcut using Civil 3D the Toolspace Prospector.
- Sub-folders are permitted within the _DataShortcuts folder (Refer to **1.5.8 Folder Naming Convention** for proper usage).
- The _DataShortcuts folder has read-write permissions assigned to the owning discipline.
- Other disciplines have read permissions assigned to the _DataShortcuts folder.
- The _DataShortcuts folder will be archived with the project.

Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.10 RULES OF THE RECEIVED FOLDER

The Received folder will contain a dated archive of design information received from other disciplines and outside sources. This folder is intended as a record to identify exactly what information was provided on what date. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.11 RULES OF THE RELEASED FOLDER

The Released folder will contain a dated archive of design information provided to other disciplines and outside sources. This folder is intended as a record to identify exactly what information was provided and on what date. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.12 RULES OF THE SCHEMES FOLDER

The Schemes folder will contain various schemes of a design as well as any temporary design data. This folder provides the designer with an area in which to make trial changes to a design and a place to store temporary files. If a scheme is created and is later chosen as the final design version, the files stored under



that scheme are to be copied to the Model folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.13 RULES OF THE SHAREDDOCS FOLDER

The SharedDocs folder will be used as a sharing mechanism between disciplines. A discipline may copy ManagementDocs files into its own SharedDocs folder, making them available for other disciplines. Files stored within the SharedDocs folder are not to be referenced into any contract drawings and are provided for information only. Only copies of ManagementDocs files shall be stored in this folder, Model files are not permitted within the SharedDocs folder. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

1.5.3.14 RULES OF THE MILESTONE SUBMISSIONS FOLDER

The Submittals folder is a location for storing independent (duplicate) copies of project information as it appears at each milestone of the project. While the root Model, Plotsheets and Publish folders contain the current versions of drawings which will evolve throughout the life cycle of the project, the Submittals folder will preserve the state of those drawings at the moment of each milestone.

Sub-folders have been created for each submission milestone from Stage I through Stage IV, **Figure 1.5.3-3** displays the sub-folders that have been created. Sub-folders are permitted within the StageIII_PA-Review, StageIII_Addendum and StageIV_PACC folders, by replacing the "XX" with the proper submission number. Follow the rules on **Table 1.5.3-A** for the rules of the folder.

For more information regarding the specific submittal milestones, refer to **1.6.12 Submissions.**

1.5.4 SAMPLE PROJECT

To simplify the exchange of information between the various PANYNJ departments, divisions and function groups as well as between consultants and contractors, every attempt will be made to Sample_Project

adhere to both the drive mapping and directory structures defined within this section.

A sample project folder structure has been provided with the CAD Standard as shown in **Figure 1.5.4-1**.

The project folder structure requires the replacement of "Facility Name" with the Facility Code provided in **1.5.1 Project Directory Structure** and the letters "PID" with the eight (8) digit Project Identification Number proved by the LEA.

A copy of the project folder structure can be found at:

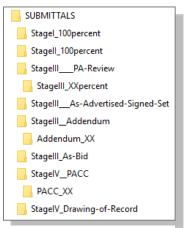
K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Sample_Project

The following link is the location of the Sample Project for Consultants:

All_Disciplines_Support_Files\Sample Project

1.5.5 FILE NAMING CONVENTION

All electronic project files such as DWG, PDF, Images and Office documents referenced by a contract drawing, will be named following the CAD Standard File Naming Convention.





Facility Name

Architectural

Environmental

GeoTechnical Mechanical

Structural

Traffic

Figure 1.5.4-1

Electrical

PID

Civil

1.5.5.1 DISCIPLINE CODES

There are eight (8) disciplines within the E/A Design Division of the PANYNJ. All files referenced by contract drawings will be named beginning with the appropriate Discipline Code. The only exception to this rule is the Contract Border file. Sub-discipline codes can be used for MODEL and PLOTSHEET file naming.

Code	Discipline
А	Architectural
С	Civil
E	Electrical
N	Environmental
G	Geotechnical
М	Mechanical
S	Structural
Т	Traffic

Table 1.5.5-A

1.5.5.2 CONTRACT BORDER FILE

The Contract Border file contains general information about the project.

Acronym	Description
PID	Eight Digit Project Identification Number
СВ	Contract Border

The filename will take the form of:

• PID-CB.dwg (ex. 01234567-CB)

Since one Contract Border file is used by all disciplines of the project, no discipline code is used in its file name. The filename will also contain no spaces or description.

Consultants may create their own Contract Border file only if they are the Lead Discipline. Otherwise, they will request the Contract Border from the EAD LE/A and place it in the Lead Discipline's Publish folder.

If new drawings are added to the Contract Set during a Stage III via an Addendum or in Stage IV - PACC the original Contract Border cannot be used. A new Contract Border will be issued by the Lead Discipline and the new issue date will be included within the Revision Stamp and as the drawing date. The new Contract Border will be issued with the name appended with the date the Addendum is issued and named as follows:

• PID-CB-YYYY_MM_DD.dwg (ex. 01234567-CB-2018_03_02)

The original Contract Border will remain un-changed and both files will co-exist within the Publish folder.

1.5.5.2.1 Configuring the Contract Border

To create the project border, open the "Contract_Border.dwg" file provided with this standard fill in all attribute information requested and save it to your discipline's PUBLISH folder with the name following the format described in **1.5.5.2 Contract Border File**.

As with the Title Sheet, the "WORK ORDER No." line has been turned off by default and layer GN-ANNO-TTLB-WRKO is to be turned on if a WORK ORDER No. needs to be entered.

For a listing of Contract Border files that have been provided with this standard refer to **1.18 Appendix D** – **Distribution Files.**

1.5.5.3 MODEL FILES

Model files are working drawing files containing the actual design geometry and annotations; they may also include externally referenced files from either the discipline's own Model folder or other disciplines' Publish folders. The file names will take form of:

Acronym	Description
D	Discipline Code (Refer to Table 1.5.5-A)
PID	Eight Digit Project Identification Number
FP	Model File Plan Type (Refer to Table 1.5.5-B)
01	Sequence Modifier (If used will be two digits)
User Description	A description of up to 24 characters, including spaces. The following characters are not permitted <>/\"":;?* ,='&%

• DPID-FP01-UserDescription.dwg (M01234567-SPK01-North Wind.dwg)

Refer to the list of approved Model File Plan Types listed in **Table 1.5.5-B.**

Once defined a model file's name will not change through the life of the project. This restriction is required due to the nature of externally referencing Model files.

Table 1.5.5-B lists all allowable Model File Plan Types. For a listing of common Model File Plan Types for particular disciplines, refer to that specific discipline's appendix. The Model File Plan Types shown in Table 1.5-C is not discipline specific and available for use by all disciplines.

Model File Plan Type	Description
3D	3D Isometric
AA	Asbestos Abatement
ALN	Alignment Plan
AN	Annotations
AP	Auxiliary Power Plan
ASL	Asbestos Sample Location
BSE	Background Drawing
CD	Communication System Plan
CFP	Concrete Framing Plan
СОМ	Communication Plan
СР	Control Plan
CPP	Corrosion Protection Plan
CS	Construction Staging
CSD	Control Schematic

	Table	1.5.5-B
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Model File Plan Type	Description
D	Decking Plan
DAT	Microsoft Office Document
DTL	Detail
EL	Exterior Elevation
EM	EMCS Plan
EP	Enlarge Plan
EV	Environmental Plan
FA	Fire Alarm
FD	Foundation Plan
FNP	Furniture Plan
FP	Floor Plan
FPW	Floor Plan Wall
FR	Framing Plan
FS	Fire Suppression Plan



Model File	Description
Plan Type	
GP	Grounding Plan
GRD	Grading Plan
GT	Geotechnical Plan
HDP	HVAC Ductwork Plan
HP	Hydraulic Profile
ICM	ITS Communication Plan
IDX	Index of Drawings
IEL	Interior Elevation
IMG	Image
JL	Joist Girder Load Diagram
KP	Keyplan
LA	Lead Abatement
LIP	Lighting Plan
LP	Landscape Plan
LR	Lightning Protection Plan
LSL	Lead Paint Sample Location
MD	Machine Design Plan
MH	Material Handling Plan
MIS	Miscellaneous
MLS	Marking Lighting & Signage
MT	Maintenance of Traffic Plan
NOT	Notes and Specifications Plan
ONL	One Line Diagram
PAV	Paving Plan
PB	Presentation Border
PIP	Piping Plan
PJ	Project Location
PL	Part Plan
PLP	Plumbing Plan
PM	Pavement Marking Plan
PP	Power Plan
PPL	Pre-cast Panel Layout Plan
PPP	Pollution Prevention Plan
PRF	Profile
QP	Equipment Plan
RCP	Reflected Ceiling Plan
RE	Reinforcement Plan
RI	Riser Diagram
RL	Removal

Model File Plan Type	Description
RM	Remediation Plan
RP	Roof Plan
SCH	Schedule
SE	Soil Erosion Plan
SEC	Section
SF	Stair Framing Plan
SG	Signal Plan
SK	Sketch
SNP	Sign Plan
SO	Sequence of Operation Plan
SP	Site Plan
SPK	Sprinkler Plan
SPP	Specialty Piping Plan
ST	Steel Framing Plan
STG	Staging Plan
ТВ	Truss Bracing Plan
TOP	Topographic Plan
TRK	Track Plan
UTL	Utility Plan
WD	Wiring Diagram
WET	Wetland Plan
WG	Wind Girt Plan
WTP	Water Treatment Plan
WWT	Wastewater Treatment Plan
ХВ	X Bracing Plan

The Sequence Modifier is restricted to the following two options:

- Option 1 Without using the Sequence Modifier
 - For Example:

M01234567-SPK-Level 2 North Wing.dwg

M01234567-SPK-Level 2 South Wing.dwg

M01234567-SPK-Level 4 North Wing.dwg

M01234567-SPK-Level 4 South Wing.dwg

Option 2 – Using the Sequence Modifier

For Example:

M01234567-SPK02-North Wing.dwg

M01234567-SPK02-South Wing.dwg

M01234567-SPK04-North Wing.dwg

M01234567-SPK04-South Wing.dwg

Note that each discipline can choose which of the options they will follow for the project.

1.5.5.4 PLOTSHEET FILES

Plotsheet files are drawings assembled as sheets for plotting consisting of an externally referenced Contract Border, an inserted Drawing_Info block and externally referenced Model files from either the discipline's own Model folder or other disciplines' Publish folders. The filename will take the form of:

Acronym	Description
D	Discipline Code (Refer to Table 1.5.5-A)
PID	Eight Digit Project Identification Number
РТ	Plotsheet Plan Type (Refer to Table 1.5.5-C)
XX	Series Modifier (Refer to Section 1.5.6)
01	Sheet Number

• DPID-PTXX01.dwg (ex. M01234567-SP001.dwg)

For multiple layouts in one Plotsheets file the filename will take form of:

• DPID-PTXX01_PTXX02.dwg (E01234567-ES001_ES004.dwg)

The Plotsheet file is not permitted to have a user description appended to its name.

Sheet Set Manager has been adopted for the use of Plotsheet creation. When using Sheet Set Manager, a .dst file format shall be submitted in the Plotsheets folder and the filename will take form of:

• DPID.dst (E01234567.dst)

1.5.5.4.1 Plotsheet Plan Type

Plotsheet Plan Types organize the contract drawings within the contract document set, they are the alphabetic character components of the sheet number depicted in the lower right-hand corner of the plotted sheet.

A listing of the Plotsheet Plan Types usable by specific discipline appears in **Table 1.5.5-C.**

Table 1.5.5-C

Useable By	Description	Plotsheet Plan Type
-	Description	Plotsheet Plan Type
Confidential and Confidential Privileged	Cover Sheet (See Section 1.9.4)	CV
All Disciplines	Index of Drawing Sheet (see Section 1.9.4)	IX
	General Project Sheets (Regional Plan, Project General Notes, etc.)	G
	Stage IV Sketch Sheets (For Stage IV use only)	SK
	Construction Staging or Sequence Plan	CS
	Title Sheet	TS
Architectural	Architectural Plan	А
	Landscape Plan	LS
Civil	Civil Plan	С
	Marking Lighting & Signage	ML
Electrical	Electrical Plan	E
	Corrosion Protection Plan	СР
	Electronics Plan	ES
	Fire Alarm Plan	FA
	Marking Lighting & Signage	ML
Environmental	Environmental Plan	Ν
Geotechnical	Geotechnical Plan	GT
Mechanical	Mechanical HVAC Plan	Μ
	Baggage Handling Plan	В
	Fire Protection Plan	FP
	Plumbing Plan	Р
	Sprinkler Plan	SP
	Vertical Transportation Plan	VT
Structural	Structural Plan	S
Traffic	Traffic Plan	Т
	Intelligent Transportation Systems	ITS
	Maintenance of Traffic	MT
	Signal Plan	SG

1.5.5.5 PDF FILES

PDF files will be created at full-size, directly from the AutoCAD drawing files. Two forms of PDF files can exist, Single Sheet and Multi Sheet.

The PDF filename will take the form of:

Acronym	Description
D	Discipline Code (Refer to Table 1.5.5-A)
PID	Eight Digit Project Identification Number
PT	Plotsheet Plan
xx	Series Modifier (Refer to Section 1.5.6 Drawing Number Conventions)
01	Single Sheet Number
XX01_XX20	Starting Sheet Number to Ending Sheet Number

- DPID-PTXX01.pdf (Single Sheet)
- DPID-PTXX01_PTXX20.pdf (Multi Sheet)

The PDF file is not permitted to have a user description appended to its name.

PDF files will be submitted as multi-sheet files at every milestone submission of the project and will be created:

- From the current set of Plotsheet files
- Full Size (either 22x34 or 34x56)
- In black and white (exception: graphic signage type sheets)
- In consecutive order
- Grouped together by Discipline Plotsheet Plan Type and drawing number

When using a Series drawing arrangement, the PDF files will be named by grouping them together by Plotsheet Plan Type.

DWF files are not permitted as substitutions for PDF files.

For Example:

- T01234567-G001_G007.pdf
- T01234567-T101_T307.pdf

In addition, a multi-sheet contract set PDF is required by the LE/A. Once the individual discipline's PDFs are submitted to the LE/A, a multi-sheet contract set of the drawings needs to be created and saved in the Lead Discipline's PDF folder. This should be assembled according to the Drawing Index and named by the eight-digit PID number, milestone description and date.

For Example:

• 01234567.pdf

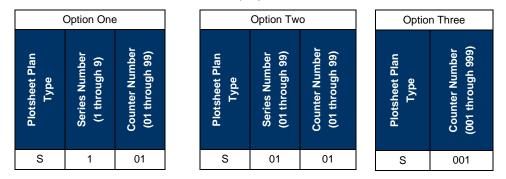
1.5.6 DRAWING NUMBER CONVENTIONS

The Port Authority CAD Standards supports three options of sheet numbering, numbering by "One-Digit-Series", numbering by "Two-Digit-Series" or numbering by "Counter" alone. At the start of each project the

LE/A will determine which numbering option will be used. This (and only this) option <u>will be used by all</u> <u>disciplines for every contract drawing produced</u> for the project.

When a "Series" numbering system is chosen by the LE/A, each disciplines Task Leader will be responsible for the determination of what drawing types are assigned to each of the available counters in the series. This information will be distributed within the discipline by the Task Leader.

These three formats **cannot** co-exist on the same project. The Sheet Number will take the form of:



Option One (One-digit series)

For projects with nine or less series the sheet number format will include a one or two letter Plotsheet Plan Type followed by a one-digit series number followed by a zero-padded, two-digit sheet "counter" number.

- Use digits "0" through "9" as the series numbers
- Series number can be skipped
- Counter numbers must be consecutive numbers beginning at "01" for each series.
 - D_Series Number_Drawing Counter
 - Example: S101

Option Two (Two-digit series)

For projects with ten or more series the sheet number format will include a one or two letter Plotsheet Plan Type followed by a two-digit series number followed by a two-digit sheet "counter" number.

- Use digits "01" through "99" as the series numbers
- Series numbers can be skipped
- Counter numbers must be consecutive numbers beginning at "01" for each series.
 - D_Series Number_Drawing Counter
 - Example: S0101

Option Three (Without Series)

For projects that are not using a series the sheet number format will include a one or two letter Plotsheet Plan Type followed by a zero-padded three-digit sheet "counter" number.

- o Counter numbers must be consecutive numbers beginning at "001"
- D_Counter Number

o Example: S001

The following images display how the three options would appear on a Plotsheet.

Designed by	DES
Drawn by	DWN
Checked by	CHK
Date	MM/DD/YYYY
Contract Number	FAC-XXX.XXX
Drawing Number	S101



Drawing Number	S001
Contract Number	FAC-XXX.XXX
Date	MM/DD/YYYY
Checked by	CHK
Drawn by	DWN
Designed by	DES

Option 3

1.5.7 LAYERING SCHEME DEFINITION

Option 1

All layers contained within E/A Design Division drawings have been defined using variations of the Tri-Services and the AIA layer guidelines and standards. All disciplines use a layer standard that is similar.

Field	Description	Length
Discipline	Discipline Code	Table 1.5.7-A
Major	Major grouping of features that have common characteristics	4 Chr
Minor	Sub grouping of Major category	4 Chr
Description	Extended description of layers for clarity	4 Chr
Phase	Indication of the information's current Phase	Table 1.5.7-B

Table 1.5.7-A

CODE	Discipline
А	Architectural
L	Landscape
С	Civil
Е	Electrical
N	Environmental
G	Geotechnical
М	Mechanical
S	Structural
т	Traffic
GN	General

Table 1.5.7-B

CODE	PHASE
EXST	Existing
OTHR	Work by others
RELO	Relocation
RMVL	Removal
TEMP	Temporary
FUTR	Future (if needed)

Note that the discipline codes listed in **Table 1.5.7-A** are for layer definitions only. Sub-discipline codes should not be used for layer naming.

The major components of a standard layer name are defined as follows:

Discipline-Major-Minor-Description-Phase

For Example:

• C-UTIL-STRM-IDEN or C-UTIL-STRM-SYMB-RELO or C-UTIL-STRM-SYMB-RMVL

The field position and character count in each component of the layer stratagem is always to be preserved for standard layer naming. The underscore "_" character is used to both pad and fill unused character spaces in fields or fill entire unused fields. Character padding is always appended to the right side of the fields designation.

For Example:

S-BEAM-STL_-__-EXST

The E/A Design Division layering stratagem consists of nine discipline groups and a general group that corresponds to spatial data layers to assist in the isolation of information for design purposes and for the translation and use with GIS. Although every attempt has been made to create an all-encompassing standard, reality dictates that additions will need to be made to the layer stratagem. In the case that additions are required, they will only be accepted as additions to minor or description categories. If an addition is required to the Standard layer list for the discipline or major categories, then a Request to Change Standard Form is required. Project specific layers can be used and should follow the layer naming convention in Section 1.5.7. Refer to **1.15.1 Request to Change Standard**.

1.5.8 FOLDER NAMING CONVENTION

For the folders allowed to create sub-folders within the pre-defined folder structure will take the form of:

Acronym	Description
YYYY	Four digit Year
MM	Two digit Month
DD	Two digit Day
User Description	A description of up to 24 characters, including spaces. The following characters are not permitted <>/\"":;?* ,='&%

• YYYY_MM_DD-User Description

1.6 CAD PRACTICES AND PROCEDURES

CAD drawing files must be consistently formatted in order to provide an effective method of data dissemination and retrieval. To that end, these standards will guide the user in the requirements of layer naming, graphic symbology, lettering styles, drawing units and other drawing related features.

1.6.1 CAD ENVIRONMENT SETUP

In order to plot successfully using this standard, some configuration of the AutoCAD environment will be necessary. This configuration will only need to be done once and will streamline plotting moving forward.

1.6.2 COORDINATE SYSTEMS

In an effort to organize, consolidate and standardize the information generated and consumed by all divisions within the agency, Coordinate Systems must be used on all projects. Go to the VDC Requirements **section 5.4** for the default horizontal and Vertical systems.



1.6.3 TEMPLATE DRAWING SETUP

For proper plotting and consistency, the CAD Standard makes use of template drawing files. Supplied with this standard are two primary template files:

- PA-deci-feet.dwt" for Decimal units
- PA-arch-inch.dwt" for Architectural units

All templates are essentially blank drawings saved with the extension ".dwt", that have been started from scratch, been assigned a unit type and make use of a CTB file. In addition, both templates have the Text Style LINEFONT defined for use with the CAD Standard linetypes. If you currently have a drawing template ensure that your template has the "Use Color Dependent Plot Styles" option selected and the "Default plot style table" set to "PA-MasterFULL.ctb" as shown in **Figure 1.6.3-1**. These options are found under the "Plot Style Table Settings" button of the Plot and Publish tab in the Options dialog box.



Figure 1.6.3-1

1.6.4 UNITS

Every object created is measured in drawing units. Before drawing can begin, the drawing units used will need to be decided based on the type of plan being drawn. All drawings will be created at actual size with the unit convention decided on.

Template files have been provided for both, Architectural units (inches) and Decimal units (feet). These templates can be found at:

K:\Application\EAD\CAD Standards\2018\All Disciplines\Template

Consultant can find the template by downloading the support files and go to:

All_Discipline_Support_File/Template

The creation of all drawings will be accomplished by using one of the two templates provided with the CAD Standard. By adhering to this process problems will be avoided when loading custom EAD linetypes. For a listing of which templates are typically used by each discipline refer to **Table 1.6.4-A**.

Architectural Units	Decimal Units
Architectural	Civil
Electrical	Environmental
Mechanical	Geotechnical
Structural	Traffic

Table 1.6.4-A

1.6.5 ENTITY AND LAYER LINETYPES

Standard E/A Design Division linetypes have been created for use with all design documents. These linetypes have been assigned to their respective layers in the <Layers.dwt> drawings, which have been

provided for each discipline as part of this standard. Special linetypes supplied require the use of a textstyle named LINEFONT, starting a drawing with the template drawings provided as part of this standard will ensure that the linetypes are loaded correctly. All entities will have their linetype assigned "bylayer".

To ensure correct linetype scaling settings for Plotsheet drawings the "LTScale" and "PSLTScale" variables will be set to "1" prior to plotting. This sets all linetypes to be scaled based on the paper space viewport scale factor.

For design (MODEL) files, which utilize model space, will have the "LTScale" variable set to the drawing scale. "MSLTSCALE" should be set to '0'

For discipline specific linetype usages refer to **1.20 Appendix F – Architectural Discipline** through **1.27 Appendix M – Traffic Discipline**. All entities will be drawn on the specified layers and must have color assigned to "bylayer". Layer color assignments are included in the layer definitions provided.

For discipline specific color usages refer to **1.20 Appendix F – Architectural Discipline** through **1.27** Appendix M – Traffic Discipline.

1.6.6 BLOCKS

A pre-arranged group of geometry that can be inserted at scale into a drawing. is defined by AutoCAD as a "block". There are two (2) types of blocks provided in this standard, Scalable and Non-Scalable blocks. Standard blocks have been provided as part of this standard.

For discipline specific symbol definitions refer **1.20 Appendix F – Architectural Discipline** through **1.27 Appendix M – Traffic Discipline**.

1.6.6.1 SCALABLE BLOCKS

Scalable blocks are created with the intent that they will appear the same size when plotted at different scales.

- Blocks are created on Layer "0" and will automatically take on the characteristics of the layer they are inserted on. All blocks will be inserted on the layer identified within this standard.
- For ease of use, the insertion scale factor of each scalable block will depend on the plot scale.
- Any text associated with the block should be on layer "0", color set to "212"

1.6.6.2 NON-SCALABLE BLOCKS

Non-Scalable symbols are created with the intent that they will appear at true size for all plot scales.

- Blocks are created on Layer "0" and will automatically take on the characteristics of the layer they are inserted on. All blocks shall be inserted on the layer identified within this standard.
- The insertion scale factor for all Non-Scalable blocks will be "1".
- Any text associated with the block should be on layer "0", color set to "212"

1.6.6.3 CREATING BLOCKS

Blocks must be documented and supplied to the CAD committee in digital format as a single AutoCAD drawing file accompanied by a plot of the block and a Request to Change Standard Form found in **1.15.1** Request to Change Standard.

- Blocks will be created on Layer "0". Other layers may be present in the drawing for supplemental information such as no-plot information within the block.
- Blocks will be created using the current version of AutoCAD software in use by the E/A Design Division.



- Colors and Linetypes will always be set to "bylayer".
- Text within the block will utilize one of the Text Styles provided within this standard so that it is legible upon plotting. Any text associated with the block should be on layer "0", color set to "212"
- The block will be drawn so that the insertion point is located appropriately and is at 0,0,0.
- The "base" of the drawing will be set to 0,0,0.
- The block drawing will be purged of all unused blocks, layers, linetypes, text styles, etc.

1.6.7 PLOTTED LINEWEIGHTS

Variable	Value
Color	Black
Dither	On
Virtual Pen Number	Automatic
Linetype	Use Object Linetype
Adaptive	On
Line End Style	Use Object End Style
Line Join Style	Miter
Fill Style	Use Object Fill Style

Table	1.6.7-A

The colors used in the layer definitions provided within this standard correspond to plotted pen weights. AutoCAD products make use of a CTB file to assign pen weights to object colors. All Contract Drawings are to be plotted using the "PA-Master.ctb" file that is provided with this standard. Many variables within the CTB file remain constant throughout the pen assignments, these variables are defined in Table 1.6.7-A. The pen numbers, lineweights and percent screening assigned to the pens used in the "PA-MasterFull.ctb" file is displayed inTable 1.6.7-B. The values displayed in Table 1.6.7-A and Table 1.6.7-B are for Contract Drawings, disciplines are permitted to use their own ctb files for presentation and Stage I documentation purposes.

Pen	Color	Weight	Screen
1		0.0100	100%
2		0.0140	100%
3		0.0200	100%
4		0.0360	100%
5		0.0080	100%
6		0.0240	100%
7		0.0080	100%
8		0.0080	100%
9		0.0080	100%
10		0.0140	100%
11		0.0180	100%

Table 1.6.7-B

Pen	Color	Weight	Screen
12		0.0100	100%
13		0.0280	100%
14		0.0080	100%
15		0.0140	100%
20		0.0180	100%
21		0.0080	100%
23		0.0200	100%
24		0.0320	100%
30		0.0400	100%
31		0.0080	100%
32		0.0200	100%

Pen	Color	Weight	Screen
33		0.0240	100%
35		0.0240	100%
37		0.0080	100%
40		0.0200	100%
41		0.0140	100%
42		0.0080	100%
43		0.0240	100%
46		0.0040	100%
50		0.0200	100%
51		0.0280	100%
52		0.0240	100%



Engineering Operation

Pen	Color	Weight	Screen
53		0.0040	100%
54		0.0100	100%
60		0.0160	100%
61		0.0100	100%
62		0.0080	100%
71		0.0100	100%
80		0.0100	100%
81		0.0200	100%
82		0.0140	100%
83		0.0080	100%
90		0.0240	100%
92		0.0120	100%
93		0.0080	100%
96		0.0100	100%
100		0.0160	100%
110		0.0080	100%
120		0.0200	100%
121		0.0140	100%
130		0.0100	100%
131		0.0200	100%
132		0.0040	100%
133		0.0080	100%

Pen	Color	Weight	Screen
140		0.0240	100%
141		0.0320	100%
142		0.0180	100%
143		0.0080	100%
144		0.0720	100%
148		0.0100	30%
150		0.0280	100%
170		0.0200	100%
172		0.0240	100%
180		0.0040	100%
190		0.0080	100%
110		0.0080	100%
120		0.0200	100%
121		0.0140	100%
130		0.0100	100%
131		0.0200	100%
132		0.0040	100%
133		0.0080	100%
140		0.0240	100%
141		0.0320	100%
142		0.0180	100%
143		0.0080	100%

Pen	Color	Weight	Screen
144		0.0720	100%
148		0.0100	30%
150		0.0280	100%
170		0.0200	100%
172		0.0240	100%
180		0.0040	100%
190		0.0080	100%
191		0.0140	100%
192		0.0240	100%
194		0.0200	100%
200		0.0100	100%
201		0.0280	100%
202		0.0100	100%
210		0.0160	100%
211		0.0320	100%
212		0.0140	100%
220		0.0200	100%
221		0.0040	100%
222		0.0100	100%
223		0.0040	100%
230		0.0160	100%
231		0.0240	100%

Pen	Color	Weight	Screen
232		0.0440	100%
234		0.0160	100%
240		0.0040	100%
241		0.0080	100%
242		0.0040	100%
244		0.0080	100%
250		0.0040	80%
251		0.0080	70%
252		0.0080	60%
253		0.0080	50%
254		0.0040	40%
255		0.0480	100%

1.6.8 TEXT STYLES AND HEIGHTS

To promote consistency in Contract Drawings as well as prevent the use of "third-party" un-licensed AutoCAD font files, and to ensure a consistent plotted appearance of text, only ARIAL.TTF, ARIALN.TTF, and RomanS fonts are permitted for use on Contract Drawings. It should be noted that RomanS font is not permitted for general use, being reserved specifically for use in Line Types that contain text.

Six Text Styles have been provided as part of this standard. Two of the Text Styles provided (ARIAL, and Linefont) are used for Contract Border, Drawing Information or Linetype definitions and are not permitted for general use by the disciplines. The remaining four Text Styles provided, which are permitted for use by the disciplines are created as annotative styles and utilize ARIAL.TTF font. Annotative styles allow the AutoCAD product to scale the text heights appropriately based on the scale of the plotted drawing. The Text Styles provided are:

Text Style	Plotted Height	Annotative	Font	Description of Usage	Usable by Disciplines
PA – 0.10	0.10"	Yes	ARIAL.TTF	Normal Text	Yes
PA – 0.15	0.15"	Yes	ARIAL.TTF	Headings	Yes
PA – 0.20	0.20"	Yes	ARIAL.TTF	Titles	Yes
PA – 0.25	0.25"	Yes	ARIAL.TTF	Alternate Titles	Yes
Linefont	0.10"	No	RomanS.shx	Linetype Definitions	No
ARIAL	Varies	No	ARIAL.TTF	Contract Border and Drawing Info	No

1.6.9 DIMENSION AND LEADER STYLES

To promote consistency in Contract Drawings only the Dimension and Leader Styles that have been provided as part of this standard are permitted for use. Three Dimension Styles and eight Multi-Leader Styles that have been provided are:

Dimension Style	Arrow Head	Content	Unit Type
PA-Arrow	Closed Filled Arrow	0.10" Mtext	Inches
PA-Arrow-Deci	Closed Filled Arrow	0.10" Mtext	Feet
PA-Tick	Tick	0.10" Mtext	Inches

1.6.10 TABLE STYLES

As with the text and dimension styles, the EAD CAD Standard has provided Table Styles as part of this standard in an attempt to promote consistency throughout the creation of Contract Drawings.

Table Style	Description of Usage
PA-Table	General Tables

1.6.11 EXTERNAL REFERENCE FILES

Files that are "attached" using AutoCAD's XREF command should always use the coordinate 0,0 for twodimensional files or 0,0,0 for three-dimensional files as the insertion point and a zero rotation angle.

All external reference drawings will be attached as "Overlays". By adhering to this process, all users will be able to use drawings within their own disciplines as well as drawings from other disciplines without concern for circular references and other potential problems. The path type will be set to "Relative Path", for both, external reference drawings and external reference images, this process will ensure the proper exchange of drawings and/or images between in-house staff and outside consultants.

1.6.12 SUBMISSIONS

CAD files in DWG and PDF format, accompanied with hardcopies are required at 100% Milestone Submissions.

Until project completion, all current working drawings are saved in the MODEL, PLOTSHEETS and PUBLISH folders of each discipline's root directory.

At the completion of every milestone, each discipline will copy its MODEL, PLOTSHEETS and PUBLISH folders, into the appropriate milestone sub-folder within SUBMITTALS. Refer to **1.5.3.14 Rules of the MileStoneSubmissions Folder** for a listing of Submittal Folders provided.

Once the folders have been copied, the involved Task Leaders will notify the LEA, who will then notify the CAD Support Group for Cad compliance report, refer to **1.11 Compliance CAD Standards Report**. Upon notification, the CAD Support Group will only move files from the discipline's SUBMITTALS folder to the ARCHIVE server.

The SUBMITTALS folder is for internal use only. Consultants are required to submit the entire Project Folder Structure as outlined in **1.5.1 Project Directory Structure and File Naming Convention** containing not only the Discipline folder in which their drawings are saved but also all other Discipline folders from which external references were made.

1.6.12.1 STAGE I_100PERCENT

Stage I (Conceptual Design) is used to develop design concepts, confirm Facility scope, determine anticipated construction costs and schedules and to compare alternatives before proceeding with Design Development (Stage II) or Final Design (Stage III).

1.6.12.2 STAGE II_100PERCENT

Stage II (Design Development) is used to develop the chosen design concept, further refine anticipated construction costs and schedules before proceeding to final design (Stage III).

1.6.12.3 STAGE III_PA-WIDE REVIEW (100%)

The Stage III (Final Design) effort includes preparation of contract documents that will be used for construction. The procedures vary for alternate delivery methods such as Work Order Contracts, Design/Bid/Build, Design/Build Contracts and Design/Build/Operate/Maintain Contracts.

PA Wide Review usually happens when the project is between 90% to 95% complete, this may vary depending on the project specifics. When a project reaches PA-Wide Review, full-sized PDFs are required to begin the Electronic Review Process.

1.6.12.4 STAGE III_AS-ADVERTISED-SIGNED-SET

The signed and sealed, updated based on PA-Wide 100% submission comments review, final submission plotted on Permalife® paper is the "As Advertised Signed Set". All original signatures shall be in blue ink.

1.6.12.5 STAGE III_ADDENDUM

The Addendum Set contains drawings that have been modified or new drawings that have been issued after the original As Advertised Signed Set was signed, sealed and issued. Not all addenda contain drawings; some may only contain specifications or other revised contract information pertinent to bidders. Therefore, an Addendum Set may contain non-consecutive addenda sub-folders. The StageIII_Addendum folder should only contain the Addenda sub-folder in which drawings were required. This folder should not contain the entire set of CAD files; it should only contain the Addenda files.

The revision procedures detailed in section **1.8.3.4 Making Revisions in Contract Drawings** apply to Addenda.

1.6.12.6 STAGE III_AS-BID

The As-Bid Set incorporates all the addenda that have been issued during the bid period and the As Advertised drawings, specifications and contract book sections that have not been modified by Addenda.

1.6.12.7 STAGE IV_PACC

The PACC Set (Post Award Contract Changes) contains As Bid drawings that have been modified or new drawings that have been issued after the Contract was awarded.

The revision procedures detailed in section **1.8.3.4 Making Revisions in Contract Drawings** apply to PACC Sets.

1.6.12.8 STAGE IV_DRAWING-OF-RECORD

The Drawing-of-Record Set is the set of drawings created after construction is completed.

1.7 PLOT SETUP

All drawings will be plotted from a paper space layout tab. The tab will be named the same as the sheet number being plotted. Full-size and Half-size sheets may be plotted from a single layout by utilizing page setups. Multiple layouts are not to be used for the separation of Full-size and Half-size sheets. Multiple layouts may be used for the plotting of multiple sequential sheets.

Stage I CAD Standard

In an effort to streamline the CAD projects a comprehensive CAD Standard has been developed. Although this standard was intended for use with projects that are at Stage II or beyond, many of the ideas are to be implemented during the Stage I effort.

1.7.1 PAGE SETUP

Page Setups enable the user to save specific settings within the AutoCAD plotting environment. The Page Setups created for the in-house designers make use of PC3, PMP and CTB files as well as configuration changes. PC3 files are typically copied to the "Plotters" folder under the root AutoCAD installation directory. The Page Setups created for in-house use are located on the internal network at:

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Page_Setups

The Page Setups that contains the PC3, PMP and CTB of the Port Authoriy are for the use of in-house designers since they are configured for the plotters within the Agency. Outside consultants will not have access to the Port Authority's plotters but may want to develop page setups using the Authority standards.

1.8 PLAN SET PREPARATION

1.8.1 AUTOCAD 2018 CONFIGURATION (PLOTTING BY LAYOUT)

AutoCAD 2018 options must be modified to ensure proper placement of the Contract Border in the paper space layout environment.

To make the required modifications, right click within the drawing pane and select Options. From within the Options dialog, select the Display tab and make the changes shown in **Figure 1.8.1-1** to the "Layout Elements" portion of the tab and then select "OK".

Clayout elements
Display Layout and Model tabs
✓ Display printable area
✓ Display paper background
Display paper shadow
Show Page Setup Manager for new layouts
Create viewport in new layouts

Figure 1.8.1-1

The Layout Elements settings that were changed affect the workstation and will not need to be reconfigured in future sessions.

1.8.2 PLAN SET TITLE SHEET

The term "Title Sheet" refers to the topmost sheet of the plan set. The use of block attributes will ensure consistency between contracts and improve the appearance of all contract sets. It is important to maintain the integrity of the Title Sheet.

1.8.2.1 TITLE SHEET CONFIGURATION

The Title Sheet drawing has purposely been created in paper space. As a result, this border drawing cannot be inserted as a block or externally referenced into other drawing files. The process for defining t Title Sheet is as follows.

- Begin by opening the Title_Sheet.dwg file located at:
 - <u>K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders (In-house)</u>
 - <u>All_Discipline_Support_File\Template</u> (Consultant)
- Once open, Save the drawing to the appropriate project sub-folder.
- Enter the appropriate values for each attribute provided in the Title Sheet.

1.8.2.2 ENTERING TITLE SHEET INFORMATION

Each Title Sheet drawing file provided with the standard has three signature lines defined. They are:

- Chief of Design, E/A Design Division
- Program Director "XX" or Sr. Program Manager "XX" or Program Manager "XX"
- Chief Engineer/Director

There are two possible options for the signature lines. Refer to **Table 1.8.2-A** and **Table 1.8.2-B** to identify which option to use based on your contract type and cost and to determine which Layers are to be turned off for each option.

Contract Type	Engineer's Estimate	Title Sheet Signatures Required	Option to Use
	Up to \$1,000,000	Chief of Design, E/A Design Division Facility Sr. Program Manager / Program Manager	Option 1
S/M/WBE Contracts	Above to \$1,000,000	Chief of Design, E/A Design Division Facility Program Director Chief Engineer/Director	Option 2
Work Order Drawings	Up to \$2,500,000	Chief of Design, E/A Design Division Facility Sr. Program Manager / Program Manager	Option 1
and Standard Contracts	Above to \$2,500,000	Chief of Design, E/A Design Division Facility Program Director Chief Engineer/Director	Option 2

Table 1.8.2-A

Table 1.8.2-B

Layer Name	Status for Option 1	Status for Option 2
GN-ANNO-TTLB-CHIF	OFF	ON
GN-ANNO-TTLB-PDIR	OFF	ON
GN-ANNO-TTLB-PMAN	ON	OFF

Under no circumstance will the Title Sheet block atributes be exploded or modified. **Figure 1.8.2-1** shows the default Title Sheet provided with the EAD CAD Standard. The "WORK ORDER No." line has been turned off by default and layer GN-ANNO-TTLB-WRKO is to be turned on if a WORK ORDER No. needs to be entered.

	AUTHORITY NY NJ AIR LAND RAIL SEA FACILITY	
	XXXXXXXX	
CO		
CO	NTRACT No. #####	

Figure 1.8.2-1

The "PROGRAM DIRECTOR" line contains an attribute, which by default is set to XX. The XX value is to be replaced with one of the following options:

- TB&T
- PORT COMMERCE
- AVIATION
- PATH
- SECURITY

Under the Contract Number the letters "FAC" are to be replaced with the appropriate Facility Code listed in **Table 1.5.5-A** and then followed by the Contract Number itself.

Multiple stamps have been provided within the Title Sheet and are to be turned on/off when necessary. The stamps provided and the layers on which they are stored are show in **Table 1.8.2-C**.

Stamp	Layer Name	
FAA	GN-ANNO-TTLB-FAA	
Law Review	GN-ANNO-STMP-LAWR	
Preliminary	GN-ANNO-STMP-PRLM	
Submission	GN-ANNO-STMP-SUBM	

Table 1.8.2-C

1.8.2.3 Using the Revision BLOCK within the Title Sheet

A revision block named "Drawing_Info – Stamp_Revision.dwg" has been provided with the EAD CAD Standard. When revisions are made, this block is to be inserted using an endpoint snap to the upper left corner of the previous revision line. **Figure 1.8.2-2** displays where the revision stamp is to be inserted. The stamp is located on the network at:

"K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps"

"All_Discipline_Support_File\Contract Border\Stamp" (Consultant)

Once inserted the revision block will prompt the user for information pertaining to the revision. Under no circumstances will the revision block be exploded or modified.

1		200X 200X		
No.	Date	Revision		Approved
Drav	vina		רא	vv
Drav	ving ber		DX	XX

1.8.2.4 PLOTTING THE TITLE SHEET

The layout for the Title Sheet will be configured to use one of the page setups supplied within this standard. As previously stated, outside consultants will need to configure the page setups for their own use and for the particular environment they are working in. After importing an appropriate page setup, the Title Sheet will be configured to plot by layout and use the PA-MasterFull.ctb plot style.

1.8.3 PLAN SET PLOT SHEETS

Plotsheet files are drawing files assembled as sheets for printing. These drawings consist only of external reference files, see section **1.6.11**, and the items indicated below. No line work is permitted within Plotsheet drawings in either Model or Paper space with the following exceptions:

- North Arrows
- Graphic Scales
- Revision Clouds and Revision Cloud Text
- Match Lines and Match Line Text
- View Titles
- Block with the prefix "Drawing_Info"
- Architectural Plotsheets

All Plotsheet files shall make use of a relevant PANYNJ Graphic Scale symbol. Such a scale bar is critical for any party viewing the drawings to be able to verify distances within the drawing. It is mandatory to include a standardized PANYNJ Graphic Scale, available through the PANYNJ CAD Standards website, on each Plotsheet drawing.

In order to comply with this standard, each project will have a single Contract Border that will be created by the Lead Discipline and will be stored in that discipline's PUBLISH folder. All other disciplines will externally reference the border from the Lead Discipline's PUBLISH folder. This border will contain all information pertinent to the project itself. Once the Contract Border is properly referenced into each sheet the appropriate "Drawing_Information" block is to be inserted into each layout tab. The Drawing_Information block will contain all drawing specific information. Illustrations of the Contract Borders provided can be found in **1.17 Appendix C – Contract Borders and Title Sheets**.

Outside consultants are required to reproduce the folder structure as specified in **1.5 Project Directory Structure and File Naming Convention** by copying the Sample Project and replacing the Facility name and PID with those of the current project. All backgrounds (including the Contract Border) provided by the E/A Design Division will go into their respective discipline folders.

Figure 1.8.2-2



1.8.3.1 REFERENCING THE CONTRACT BORDER

To create a Plotsheet file, begin by externally referencing the Contract Border that was configured in the previous section. The border is to be referenced into a paper space layout, that has been configured following the steps outlined in **1.7 Plot Setup**, with an insertion point of 0,0. Under no circumstances will the contract border be exploded, renamed or modified.

1.8.3.2 INSERTING THE DRAWING INFORMATION

Once the Contract Border has been externally referenced the "Drawing_Info.dwg" block will need to be inserted. This block will be inserted with an insertion point of 0,0 and all attribute information is to be filled out.

The "Drawing_Info.dwg" block contains a pair of lines that state "Original Signed By" and "Original Signee". These lines of text are stored on the layer GN-ANNO-TTLB-SIGN, which by default is turned off. The "Original_Signee" attribute field is to be filled in using the name of the person that signed the drawings. The layer with this information shall be turned on once the Stage III is completed and contract drawings are signed by the Chief discipline Engineer. **Figure 1.8.3-1** and **Figure 1.8.3-2** display this text OFF and ON. Note, this attribute is only required for internal use and outside consultants need not turn on this layer. For information on the correct process for outside consultants refer to **1.8.3.7 Using the Signature Stamps**.





Figure 1.8.3-1

Figure 1.8.3-2

When entering the "Discipline Group" and "Discipline Sub-Group" attribute fields users will need to refer to Table 1.8.3-A for the proper values to be used within these fields.

Discipline Group	Discipline Sub-Group
Architecture	
	Landscape
Civil	
Electrical	
	Power
	Electronics
	Corrosion Protection
Environmental	
General	
	Construction Staging
Geotechnical	
Mechanical	

Table 1.8.3-A

	Fire Protection
	HVAC
	Plumbing
Structural	
Traffic	
	Maintenance of Traffic

To promote consistency and easy identification of the people involved in the project the Designed By, Drawn By and Checked By attribute fields are to be filled out following the next example:

For Example:

Filippo Brunelleschi would fill out the field as F.Brunellesc

Note that spaces before or after the period are not permitted. The process used to create Contract Borders allows for flexibility in editing and updating information both at the project level as well as at the drawing level. If a project level change is required, then the PID-CB.dwg file can be opened and modified and if a drawing level change is required then the individual drawing can be opened and modified.

1.8.3.3 CREATING A VIEWPORT

When a viewport is created in Paper Space, it is to be placed on the appropriate layer for that discipline, typically <discipline>"-ANNO-VPRT". Once the viewport is created the scale of the viewport must be set. All Division files are created to be plotted with a scale of 1:1, which means that the viewports created will need to have a scale assigned to them. Once the viewport scale has been assigned and the drawing information has been centered within the view, the viewport display should be set to locked.

1.8.3.4 MAKING REVISIONS IN CONTRACT DRAWINGS

Two types of revisions can happen in a Contract Drawing Set: Partial Revisions and Additions. A partial revision is when only portions of the Contract Drawings have been changed and an Addition takes place when an additional Contract Drawing is added to the Drawing Set.

Regardless of the revision type, users will be required to place the "Drawing_Info – Stamp_Triangle.dwg" block in the drawing pane, near the revised entities. A revision cloud is also to be placed around the area that is being revised. The revision cloud is not required for new drawings.

For Partial Revisions:

A Revision Cloud will be placed either in Model Space or in Paper Space surrounding just the area of the drawing where changes were made. The Stamp Triangle will be placed right next to the Revision Cloud with an arc linking it to the cloud including the Revision Number, see Figure 1.8-6. The Revision Block will be inserted including the Revision Number as well as the Date, the Description and the Initials of the person that approved the changes (Refer to 1.8.3.6). The initials should be an original signature, in blue ink, for the current revision, If a new revision to the same drawing is required, the first revision initials should be added in AutoCAD and the initials for the new revision should be added in an original signature in blue ink.



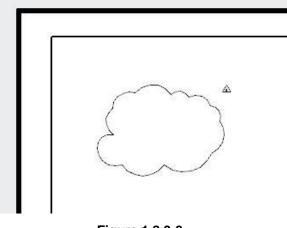


Figure 1.8.3-3

For Additions:

The entry for the Sheet in the Drawing Index will be bubbled with a Revision Cloud. The Revision Block will be inserted including the Revision Number as well as the Date, the Description and the Initials of the person who approved the changes. A new Contract Border shall be issued, reference **1.5.5.2 Contract Border File** for the file name of the Contract Borders use on addition sheets. Lastly, the sheet counter text "Sheet _ of _", displayed on the new drawing, must reflect the location of the new sheet and total number of sheets

in the set.

νιτστφ	THE TEAT HERE DUESN'T WAT
MT014	STANDARD DETAILS
MT015	CONSTRUCTION SIGN DATA



Note that for any drawings that are added within a series (as opposed to the end of the series), all drawings following the inserted drawing must be renumbered correctly so that drawing numbers remain unique. Any drawings that have had their drawing number changed as a result of the addition of a drawing within a series must have the drawing number bubbled on the Sheet itself as well as in the Drawing Index, since the corresponding entry for the drawing shall be modified. When a drawing is removed from the contract set, the Drawing Index will also have the drawing name removed.

1.8.3.5 USING THE REVISION BLOCK WITH THE CONTRACT BORDER

A revision block named "Drawing_Info – Stamp_Revision.dwg" has been provided with the CAD Standard. When revisions are made, this block is to be inserted using an endpoint snap to the upper left corner of the previous revision

1 MM/DD/YY	X0X X0X	
N _{Endpoint} Date	Revision	Approved
ENGINEE	RING DEPARTMEN	Т
ENTE	R	
FACIL	ITY	
NAME		
HERE		
DISCIPLINE		

Figure 1.8.3-5

line. Figure 1.8.3.5 displays where the revision stamp is to be inserted. The stamp is located on the network at:

K:\Application\EAD\CAD Standards\2018\All Disciplines\Contract Borders\Stamps (in-house)

All_Discipline_Support_File\Contract Border\Stamp (Consultant)

Once inserted the revision block will prompt the user for information pertaining to the revision. Under no circumstances will the revision block be exploded or modified.

A revision cloud is to be placed around the area of revision whenever a revision is made. Also, note that when an entirely new sheet is added to the set as a revision, the date of the sheet should be the date of the revision, not the original signature date (a revision note is still required on the new sheet).

1.8.3.6 USING THE SUBMISSION STAMPS

Submission stamps have been provided for both the Contract Border and Contract Border – OS (oversize) sheets and can be found at:

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps

All_Discipline_Support_File\Contract Border\Stamp (Consultant)

The submission stamps will be inserted as blocks within the Contract Border with an insertion point of 0,0. The following submission types have stamps provided with this standard:

- Law-Review
- Preliminary
- QA-Submission
- Percent Submission

Figure 1.8.3-6 displays how the submission stamp types appear on the Contract Border.



Figure 1.8.3-6

1.8.3.7 USING THE SIGNATURE STAMPS

Signature stamps have been provided for both the New York and New Jersey Professional Engineer and Registered Architect and are to be used by outside consultants in-lieu of Consultant Logos. The word "Drawing_Info – Stamp_" has been prefixed at the beginning of each stamp to indicate that these stamps are to be placed within the individual layout tabs and not directly into the Contract Border file. The signature stamps provided within this standard are located at:

K:\Application\EAD\CAD Standards\2018\All Disciplines\Contract Borders\Stamps

All Discipline Support File\Contract Border\Stamp (Consultant)

The use of the Signature stamps by outside consultants will require that the GN-ANNO-TTLB-PANU layer be turned off. This layer contains the signature lines for the in-house staff and is not needed when outside consultants are signing the sheets.

Signature stamps are to be inserted with an insertion point of 0,0 and are required to have all appropriate attribute fields filled in. The stamp is dynamic and has visibility states. It should be inserted and then edited. Note that when filling in the Consultant company information only the company name and address is to appear, not the logo. If a sub-consultant is used, then the primary consultant will fill in their company name using the first NYPE Consultant and the second NYPE Consultant attribute fields and the sub-consultant will fill in their company name using the Sub-Consultant1 and Sub-Consultant2 attribute fields. Bi-State drawing information stamps are provided and should be used when it's appropriate.

On the left side of **Figure 1.8.3-7** the Contract Border with the GN-ANNO-TTLB-PANU layer for in-house use turned on is displayed, on the middle of **Figure 1.8.3-7** the Contract Border with that layer turned off and a consultant signature stamp inserted is displayed and on the right of **Figure 1.8.3-7** the Contract Border with that layer turned off and the Bi-state consultant signature stamp inserted is displayed.

The seal for the Architectural and/or Engineering firm should be shaded or stamped in the open space under the NJ/NY PE/RA consulting firm name.

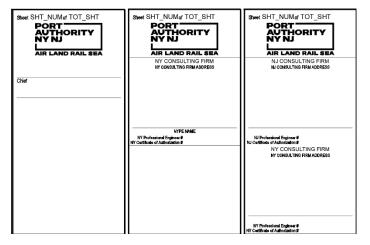


Figure 1.8.3-7

1.8.3.8 USING THE CONFIDENTIAL PRIVILEGED STAMPS

Confidential Privileged Stamps have been provided for both, the Contract Border and Contract Border - OS (oversize version). The Confidential Privileged Stamps are to be inserted as blocks with an insertion point of 0,0 on each individual sheet unless the entire project is considered Confidential and Privileged, in which case the stamps can be placed within the Contract Border. The Confidential Privileged Stamps provided with this standard are located at:

K:\Application\EAD\CAD Standards\2018\All Disciplines\Contract Borders\Stamps

All_Discipline_Support_File\Contract Border\Stamp (Consultant)

Figure 1.9.3-4 illustrates a Contract Border with a Confidential Privileged Stamp (Drawing_Info - Stamp_CPbar.dwg) inserted.



1.9 CONFIDENTIAL & CONFIDENTIAL PRIVILEGED PROJECTS

Confidential and Confidential Privileged Projects are those in which unique circumstances may require different guidelines be followed in order to comply with the CAD Standards. The contents of this document will be followed in addition to the ones already specified in the CAD Standards, unless specifically instructed otherwise within this section.

1.9.1 PURPOSE

The Port Authority C & CP Standard Compliance outlined is established to provide guidance for the preparation of the EAD Division of the Port Authority of New York and New Jersey's contract documents that contain Confidential and Confidential Privileged information.

This document is intended for use by both in-house personnel as well as outside consultants involved in creating construction documents for the Port Authority. It establishes requirements and procedures for the preparation and submission of CAD based drawings throughout the project life cycle. Adherence to this standard ensures that the E/A Design Division and the Construction Division of the PANYNJ will receive and produce data in a consistent format.

For more information on practices and procedures on protected information projects it can be found on Engineering Department Protected Information Practices and Procedures.

1.9.2 CONFIDENTIAL PROJECTS

Confidential Projects contain highly sensitive information that if lost or made public could seriously damage or compromise the Port Authority and/or public safety and security. Confidential information includes, but is not limited to, methods utilized to mitigate vulnerabilities and threats, such as identity, location, design construction and fabrication of security systems.

For that reason, if aspects being worked on as part of a project drawing are considered Confidential, they will need to be handled differently than standard contract drawings.

If information on a drawing is considered to be Confidential, then that model drawing is to be stored in the Model_C folder. Any plotsheet drawing that contains Confidential information must be stored in the Plotsheets_C folder. It is permitted to reference non-Confidential information from outside the Confidential folder into a Confidential project. If a model file that has been deemed Confidential needs to be shared across disciplines, then the file is to be copied to the Publish_C folder.

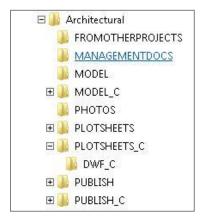


Figure 1.9.2-1

Cover sheets shall be used to divide the complete set into Unmarked, Confidential and Confidential Privileged drawings, the cover sheet files are found inside the Contract Border folder of the standardize files. If a project contains Confidential sheets then they must be separated out into their own set with its

own Cover Sheet. The Confidential Stamp markings at the top, bottom and right side of the pages must be displayed, identifying the project as Confidential. This is accomplished by turning on and thawing the "GN-ANNO-TTLB-CONF" layer. Confidential Cover Sheet doesn't require the use of the Warning stamp.

All interior Confidential pages within the set must also be marked Confidential at the top, bottom and right side of the page. Sets of documents that are folded or rolled must be marked so that the marking is visible on the outside of the set once folded or rolled. This is accomplished by inserting the "Drawing_Info – Stamp_Cbar.dwg" block into paper space of the Plotsheet drawing containing the Confidential information. The "Drawing_Info – Stamp_Cbar.dwg" block is to be inserted with an insertion point of 0,0,0 on layer 0 and is not to be exploded or modified in any way. All of the Confidential Markings are displayed in **Figure 1.9.2.2** and **Figure 1.9.2-3**.

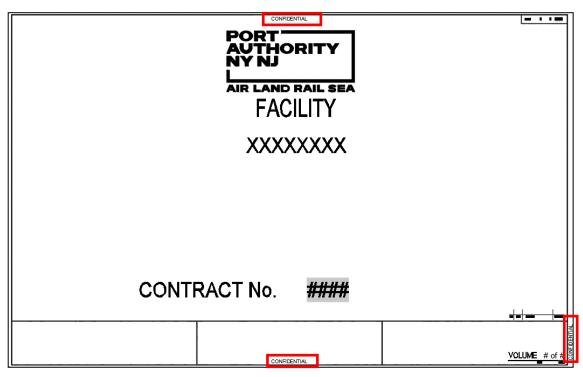
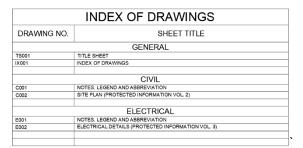


Figure 1.9.2-2





Confidential and Unmarked drawings will be separated into two sets, for more referred to section **1.9.4 C & CP Contract Drawing Set**. On the Drawing Index sheet, names of Confidential drawings shall be listed to inform the viewer that additional drawings have protected information. This drawing shall take the form "<Drawing Title> (Protected Information Volume X)", where <Drawing Title> is the title of a Confidential drawing and X is the Volume number as shown in **Figure 1.9.2-4** below.





For more information on the handling and submitting of Confidential projects refer to "The Port Authority of New York & New Jersey Information Security Handbook".

1.9.3 CONFIDENTIAL PRIVILEGED PROJECTS

Confidential Privileged Projects contain extremely sensitive security or public safety information that if lost or made public could seriously damage or compromise the Port Authority and/or public safety and security. Confidential Privileged information includes, but is not limited to, any information identifying vulnerabilities, capabilities, threats, operational methodologies and/or security related design criteria.



For that reason, if aspects being worked on as part of a project drawing are considered Confidential Privileged they will need to be handled differently than standard contract drawings.

If information on a drawing is considered to be Confidential Privileged, then that model drawing is to be stored in the Model_CP folder. Any plotsheet drawing that contains Confidential Privileged information must be stored in the Plotsheets_CP folder. It is permitted to reference non-Confidential information from outside the CP folder into a Confidential Privileged plotsheet drawing. If a model file that has been deemed Confidential Privileged needs to be shared across disciplines, then the file is to be copied to the Publish_CP folder.

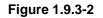


Figure 1.9.3-1

Cover sheets shall be used to divide the contract set into Unmarked, Confidential and Confidential Privileged drawings, the cover sheet files are found inside the Contract Border folder of the standardize files. If a project contains any Confidential Privileged sheets then they must be separated out into their own set with its own Cover Sheet. The Confidential Information Warning Sign (CP - WARNING.dwg) must be displayed on the Cover Sheet of the Confidential Privileged set, along with markings at the top, bottom and right side of the page identifying the project as Confidential Privileged. This is accomplished by turning on and thawing the "GN-ANNO-TTLB-CP__" layer. The Warning Sign is displayed in Figure 1.9.3-2 and Figure 1.9.3-3.

"WARNING": THE ATTACHED IS THE PROPERTY OF THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY (PANYNJ). IT CONTAINS INFORMATION REQUIRING PROTECTION AGAINST UNAUTHORIZED DIS CLOSURE. THE INFORMATION CONTAINED IN THE ATTACHED DOCUMENT CANNOT BE RELEASED TO THE PUBLIC OR OTHER PERSONNEL WHO DO NOT HAVE A VALID NEED TO KNOW WITHOUT PRIOR WRITTEN APPROVAL OF AN AUTHORIZED PANYNJ OFFICIAL. THE ATTACHED DO CUMENT MUST BE CONTROLLED, STORED, HANDLED, TRANSMITTED, DISTRIBUTED AND DISPOSED OF ACCORDING TO PANYNJ INFORMATION SECURITY POLICY. FURTHER REPRODUCTION AND/OR DISTRIBUTION OUTSIDE OF THE PANYNJ ARE PROHIBITED WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PANYNJ.

AT A MINIMUM, THE ATTACHED WILL BE DISSEMINATED ONLY ON A NEED TO KNOW BASIS AND, WHEN UNATTENDED, WILL BE STORED IN A LOCKED CABINET OR ARE A OFFERING SUFFICIENT PROTECTION AGAINST THEFT, COMPROMISE, INADVERTENT ACCESS AND UNAUTHORIZED DISCLOSURE.



		PORT AUTHORI NY NJ AIR LAND RAI FACILI	TY	 t - 2000
		XXXXXX	XX	
Notice to build a statution of the statute of the s	CONTRA	CT No. #	###	 <u>a 10 min 70 m</u>
		CONFIDENTIAL PRIVILEGED		VOLUME # of #

Figure 1.9.3-3

All interior pages within the set must also be marked at the top, bottom and right side of the page. Sets of documents that are folded or rolled must be marked so that the marking is visible on the outside of the set once folded or rolled. This is accomplished by inserting the "Drawing_Info – Stamp_CPbar.dwg" block into paper space of the Plotsheet drawing containing the Confidential Privileged information. The "Drawing_Info – Stamp_CPbar.dwg" block is to be inserted with an insertion point of 0,0,0 on layer 0 and is not to be exploded or modified in any way.

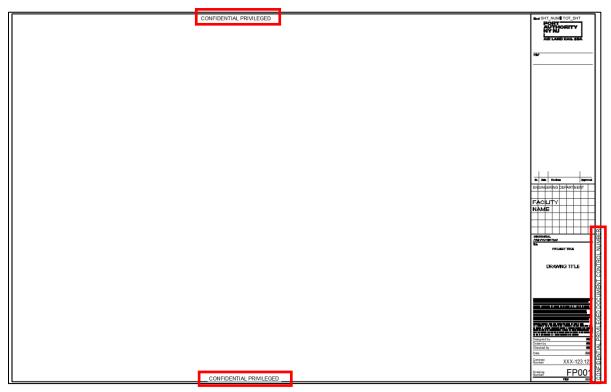


Figure 1.9.3-4

Projects identified as Confidential Privileged are assigned a Confidential Privileged Document Control Number. This markings are to appear on the top, bottom and right side of each printed sheet next to the Confidential Privileged markings and is also stored on the GN-ANNO-TTLB-CP__ layer for title sheets and within the "Drawing_Info – Stamp_CPbar.dwg" block. All of the Confidential Privileged Markings are displayed in Figure 1.9.3-3 and Figure 1.9.3-4.

On the Drawing Index sheet, names of Confidential Privileged drawings that are separated out of the main drawing set should be listed to inform the viewer that additional drawings are available and should take the form "<Drawing Title> (Protected Information Volume X)", where <Drawing Title> is the title of a Confidential Privileged drawing and X is the Volume number as shown in **Figure 1.9.2-4**.

For more information on the Document Control Number and the handling and submitting of Confidential Privileged projects refer to "The Port Authority of New York & New Jersey Information Security Handbook".

1.9.4 C & CP CONTRACT DRAWING SET

This document defines what are the requirements that Confidential and Confidential Privileged Projects shall contain prior to submission to the Port Authority. If a project contains both C & CP drawings, then the Contract Set shall be divided into three volumes as stated in section 1.9.2 and 1.9.3. The set containing the unmarked drawings will be Volume 1, the set containing confidential drawings will be Volume 2, the set containing the confidential privileged drawings will be Volume 3 and shall be marked in the index drawings as the following:

- <Drawing Title> (Volume 1)
- <Drawing Title> (Protected Information Volume 2)

• <Drawing Title> (Protected Information Volume 3)

Each volume shall have a Cover sheet and an Index of drawings with the number of the volume in the file name. The following requirements on

Table 1.9.4-A and Table 1.9.4-B only applies when Confidential and Confidential Privilege documents are part of the Contract Set.

Tab	e	1	.9	4	٠A

	Standard Projects	5	
Items Included Per Set	Unmarked Set	Confidential Set	Confidential Privileged Set
Title Sheet*	~		
Cover Sheet		✓	\checkmark
Warning Label (Title Sheet Only)			\checkmark
Signature Lines (Title Sheet)	~		
Index of Drawings	~	~	\checkmark
Security Markings		\checkmark	\checkmark
Document Control Numbers			\checkmark

Table 1.9.4-B

S	Security Projects Or	hly	
Items Included Per Set	Volume 1	Volume 2	Volume 3
Title Sheet*	\checkmark		
Cover Sheet		~	\checkmark
Warning Label (Title Sheet Only)	~	~	✓
Signature Lines (Title Sheet)	~		
Index of Drawings	~	~	✓
Security Markings	~	~	\checkmark
Document Control Numbers			\checkmark

The Title Sheet is the first sheet of the first volume in the Contract Set. The cover sheets are duplicate title sheets sans the drawing number and signature lines, see **Figure 1.9.4-1** and **Figure 1.9.4-2** for reference. The Title Sheet, Cover Sheet and Index of drawings sheets will have unique names to distinguish them from the design/construction plotsheet files.



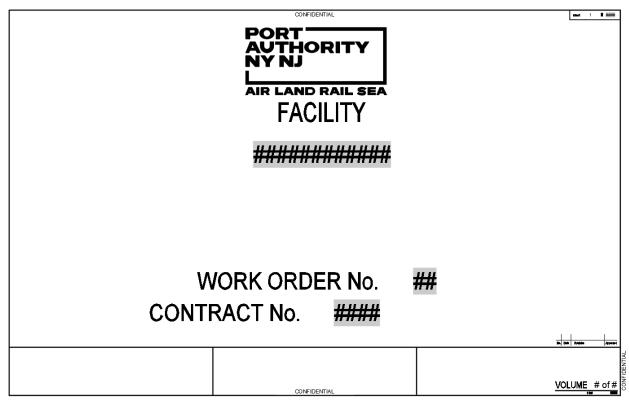


Figure 1.9.4-1

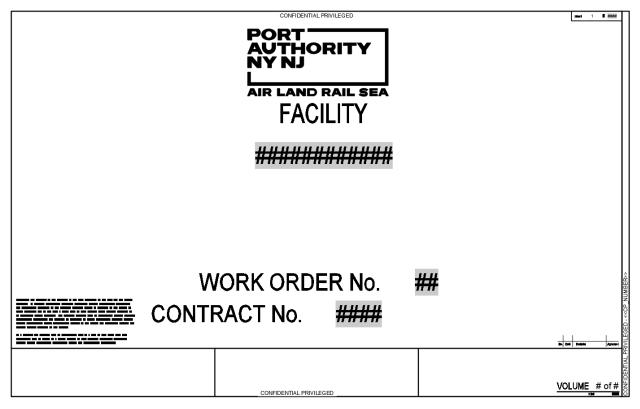


Figure 1.9.4-2

The volume number must be noted in the bottom right corner of the Cover sheet, when multiple volumes are produced. The title sheet is dynamic and has visibility states that allows the Volume attributes to be filled. If the project does not contain any Confidential or Confidential Privileged information the volume number will not be noted on the Title sheet of that set.

1.10 DELIVERABLES

The CAD Standard adopts AutoCAD as the "Standard CAD Software". Consultants are required to submit electronic CAD files in a format compatible with the current version of AutoCAD software in use by the E/A Design Division of the PANYNJ.

Softcopy submittals (electronic CAD files) must include all information presented on the hardcopy submittals (plots). This precludes the use of sticky-backs, graphic tapes, hand lettering and anything else that is placed on the drawing after it is plotted excepting any signatures and seals.

Consultants are required to submit CAD files accompanied with hardcopies every time a project reaches a 100% submittal milestone. This includes, but is not limited to, PA Review Set, Percent Submittal Set, Addendum Set, As Bid Set, PACC Set, Drawing of Record Set, etc. Refer to **Section 1.6.12 Submissions**.

When submitting files on electronic media, the AutoCAD drawing file version should be noted.

If terrain model files are requested for the project, the consultant will submit these files in XML format.

If alignment files are requested for the project, the consultant will submit alignment files in XML format.

If a coordinate geometry point database is requested for a project, the consultant will supply this database as an XML file.

When requested, these files will be submitted with the project structure intact, as outlined in **Section 1.4.2** AutoCAD Civil 3D.

1.10.1 MEDIA AND FORMAT

AutoCAD drawing files will be submitted on media CDs. All disks are to be delivered virus free.

Final hardcopies of each sheet must use the PANYNJ Contract Border identified in this standard and must be submitted at full size, either 22x34 or 34x56. Submitted hardcopies must use archival paper with Permalife® plotter paper specifications. Engineering Department staff will verify that submissions contain the "Permalife 25% cotton content" watermark. Authorized professional signatures must use blue ink.

1.10.2 IDENTIFICATION

All CDs submitted to the E/A Design Division of the PANYNJ will be labeled with the following information:

- Consultant's name and Project Identification Number (PID)
- Contact name and phone number of consulting project manager
- Discipline-Facility (e.g. Civil-JFK)
- Submittal Date and Percent Completed
- Data Format (e.g. AutoCAD Version .dwg)
- File Name(s) on CD
- As much information as possible should be printed on both the CD label and the CD case. If all the information will not fit on either the CD label or the CD case, the information can be listed in an orderly manner in a text file that will be copied to the CD in electronic format.

1.10.3 **PROJECT WEBSITES**

The PANYNJ developed a "Project Extranet" to enhance collaboration between in-house designers and outside consultants, as well as with different departments and divisions throughout the agency. All Project Websites have a folder structure similar to that described in **1.5 Project Directory Structure and File Naming Convention** of this standard.

Please refer to the project specifics to determine if a Project Website is available for use. If so, all transfer of digital information should be made via the website. Transfer of data via email or CDs is not permitted if a project website is available.

If a Project Website is available for the project the Project Website link will be provided along with a Username and a Password.

1.11 COMPLIANCE CAD STANDARDS REPORT

In an effort to confirm the compliance of the CAD Standard, the use of the Compliance report shall be filled based on the status of all submitted files. CAD Standards reviews are applicable to all projects, in-house and/or consultant that are issued either for construction contracts or work orders.

1.11.1 WORK ORDER & CONSTRUCTION CONTRACT PA WIDE CAD REVIEW

- Review is mandatory for all Contract Drawings
 - Initial failures are issued to the LEA and Task Leaders
 - 3 weeks are provided for the correction of the files
 - At the end of the 3-week period a Report is issued to the Assistant Chiefs, Principals, LEA and Task Leaders
 - During the PA Wide Review drawings will be analyzed and a FINAL pass/fail Report will be issued.
 - Drawings will not be reviewed after the PA Wide Review period.
- Requirements
 - Timeframe: Required at the on-set of PA Wide Review
 - Initiated by the LEA via EOL request form
 - Only for **PA Wide Review** upon receipt of the request the CAD Support Group is to upload the files to Live Link for electronic review and notify the Contract Engineer of the initiation of PA Wide Review.
- Final Report is issued the Assistant Chiefs, Principals, LEA and Task Leaders

All items on the CAD Standards Review Report are required to be in compliance with CAD Standards in order for the project to pass, this is followed by a Notes section that includes comments pertaining to the review.

This form will be reviewed on a regular basis and is subject to changes. If a change is approved, it will be posted on the E/A Design Division CAD Standard website <u>http://www.panynj.gov/business-opportunities/engineering-documents-bim-cad-standards.html</u> and incorporated into the next revision of this document.

The following two pages illustrate the CAD Standards Review Report and are to be used as a checklist for checking CAD Standard compliance prior to submitting drawings. (See Figure 1.11.1-1 and Figure 1.11.1-2

CAD - DISCIPLINE COMPLIANCE REPORT			
ACCEPTED ~		Reviewed By:	
	PROJECT IN	NFORMATION	
Facility Name:	Newark Airport	Review Type:	PA Wide Review
Contract Number:		Submittal Percentage / Number:	100
PID Number:		Date Submitted:	
Project Title:		Date Reviewed:	
Stage:	3 ~	Due Date:	
Lead Discipline:	Civil	Task Leader:	
LEA:		Discipline:	Environmental
Consultant:		File Reviewed:	
Confidentiality Level:	Not Confidential \checkmark		

Project information Items

Figure 1.11.1-1



Mandatory Items

PRE-AUDIT					
PRE-AUDIT	~				
Folder Structure	~				
File Location	~				
File Submitted					
File Naming Convention					
			C CI IN A A DW		
PROJECT SETUP		PERFORMANC NAMING CONVENTION		MODEL INTEGRITY	
	~		~		~
Project Coordinates	~	Layers	~	Overlaps	~
All Xrefs Within PID Folder Structure	~			Duplicates	~
External Reference	~			Floating Contents	~
Layout Tab	~			Model Cleanup	~
1:1 Scale					
Page Setups					
PLAN SET PREPARATION		DRAWINGS PERFORI			
PLAN SET PREPARATION	~ ~	31165	~		
Contract Border	~	Text	~		
Drawing Information	~	Dimensions	~		
No Linework in Sheets	~	Tables	~		
Professional Stamps	~	СТВ	~		
PDFs Setup	~				
		CIVIL	3D		
CIVIL 3D	~				
Data Shortcuts					
Alignments					
Corridors	v				
Pipe Networks					
Surfaces	~				
NOTES					

Figure 1.11.1-2

1.12 CAD STANDARD UPDATE AND REVISION PROCEDURES

The dynamic nature of CAD technology and the engineering process dictates that this document will change over time. Changes to this document will be made by following strict procedures and guidelines.

Changes may be made based on errors and omissions, as well as to enhance or update the standards based on changes in the CAD environment. All requested changes to this document must be accompanied by a Request to Change Standard form provided in **1.15.1 Request to Change Standard**.

Updates to this document and the related support files will be made as required. Updates will be posted on https://www.panynj.gov/port-authority/en/business-opportunities/engineering-available-documents.html. For in-house the updates shall be posted on K:\Application\EAD\CAD_Standards\2018 and https://www.panynicentering-available-documents.html.

1.13 CONTACT AND SUPPORT INFORMATION

Questions regarding the standards provided within this document should be directed to the VDC Support Group at: 212-435-6102 or engcadd@panynj.gov

1.14 CONCLUSION

This document is a comprehensive standard for the creation of contract drawings for the PANYNJ. All drawings submitted to the E/A Design Division must adhere to the conventions documented here. The VDC Support Group will use automated procedures to verify compliance with this standard.

1.15 APPENDIX A – UPDATES AND REVISIONS

1.15.1 REQUEST TO CHANGE STANDARD

Engineering CAD/BIM Support Group

THE PORT AUTHORITY	OF NY& NJ
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E/A Design Division CAD Standards

DISCLAIMER

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Change Description

By making this submission you, the submitter, agrees that no contractual confidential relationship is established between you and the issuer of this Standard. If your material is incorporated into this Standard, you will not be compensated. In addition, if the material which you have submitted on this form is protected by any copyright, patent, trademark, or other proprietary right, then you are granting the issuer of this Standard a non-exclusive, royalty-free, perpetual and fully transferable license to use the materials in connection with this Standard.

SUBMITTER IN	FORMATION

APPROVED BY

Name	Architectural
Date	Civil
Company	Electrical
Address	Environmental
Address	Geotechnical
City, State, ZIP	Mechanical
Phone	Structural
Email	Traffic
	CAD Support
CAD STANDARD INFORMATION	
/ersion of Standard to Update	
CHANGE INFORMATION	
Section to be Changed	Appendices
Change Type	Edit

APPROVAL / DENIAL INFORMATION

1.16 APPENDIX B – COMMON SYMBOLOGY

1.16.1 GRAPHIC SCALE BARS

Symbol	Block Name	Layer Name	Description
0 32 64 SCALE IN FEET	BS1_32in-1ft.dwg	D-ANNO-SYMB	Scale Bar 1/32"=1'-0"
0 16 32 SCALE IN FEET	BS1_16in-1ft.dwg	D-ANNO-SYMB	Scale Bar 1/16"=1'-0"
0 2 4 SCALE IN FEET	BS1_2in-1ft.dwg	D-ANNO-SYMB	Scale Bar ½"=1'-0"
0 4 8 SCALE IN FEET	BS1_4 in-1ft.dwg	D-ANNO-SYMB	Scale Bar ¼"=1'-0"
0 8 16 SCALE IN FEET	BS1_8in-1ft.dwg	D-ANNO-SYMB	Scale Bar 1/8"=1'-0"
0 6 12 SCALE IN FEET	BS3_16 in-1ft.dwg	D-ANNO-SYMB	Scale Bar 3/16"=1'-0"
0 12 24 SCALE IN FEET	BS3_32in-1ft.dwg	D-ANNO-SYMB	Scale Bar 3/32"=1'-0"
0 1 2 3 SCALE IN FEET	BS3_4in-1ft.dwg	D-ANNO-SYMB	Scale Bar ¾"=1'-0"
0 3 6 SCALE IN FEET	BS3_8in-1ft.dwg	D-ANNO-SYMB	Scale Bar 3/8"=1'-0"
C SCALE IN FEET	BS1-1_2in-1ft.dwg	D-ANNO-SYMB	Scale Bar 1-1/2"=1'-0"
0 1 2 SCALE IN FEET	BS1in-1ft.dwg	D-ANNO-SYMB	Scale Bar 1"=1'-0"
0 10 20 SCALE IN FEET	BS1in-10ft.dwg	D-ANNO-SYMB	Scale Bar 1"=10'-0"
0 100 200 SCALE IN FEET	BS1in-100ft.dwg	D-ANNO-SYMB	Scale Bar 1"=100'-0"
0 200 400 SCALE IN FEET	BS1in-20ft.dwg	D-ANNO-SYMB	Scale Bar 1"=20'-0"
0 200 400 SCALE IN FEET	BS1in-200ft.dwg	D-ANNO-SYMB	Scale Bar 1"=200'-0"
0 25 50 SCALE IN FEET	BS1in-25ft.dwg	D-ANNO-SYMB	Scale Bar 1"=25'-0"
25 5 5 SCALE IN PEET	BS3in-1ft.dwg	D-ANNO-SYMB	Scale Bar – 3"=1'-0"
0 30 60 SCALE IN FEET	BS1in-30ft.dwg	D-ANNO-SYMB	Scale Bar 1"=30'-0"
0 40 80 SCALE IN FEET	BS1in-40ft.dwg	D-ANNO-SYMB	Scale Bar 1"=40'-0"
SCALE IN FEET	BS1in-400ft.dwg	D-ANNO-SYMB	Scale Bar 1"=400'-0"
0 5 10 SCALE IN FEET	BS1in-5ft.dwg	D-ANNO-SYMB	Scale Bar 1"=5'-0"
0 50 100 SCALE IN FEET	BS1in-50ft.dwg	D-ANNO-SYMB	Scale Bar 1"=50'-0"
0 500 1000 SCALE IN FEET	BS1in-500ft.dwg	D-ANNO-SYMB	Scale Bar 1"=500'-0"
0 60 120 SCALE IN FEET	BS1in-60ft.dwg	D-ANNO-SYMB	Scale Bar 1"=60'-0"
CALE IN INCHES	BSFULL.dwg	D-ANNO-SYMB	Scale Bar 1"=1"

The letter "D" under the Layer Name is to be replaced by the specific Discipline's Discipline Code.

1.16.2 NORTH ARROWS

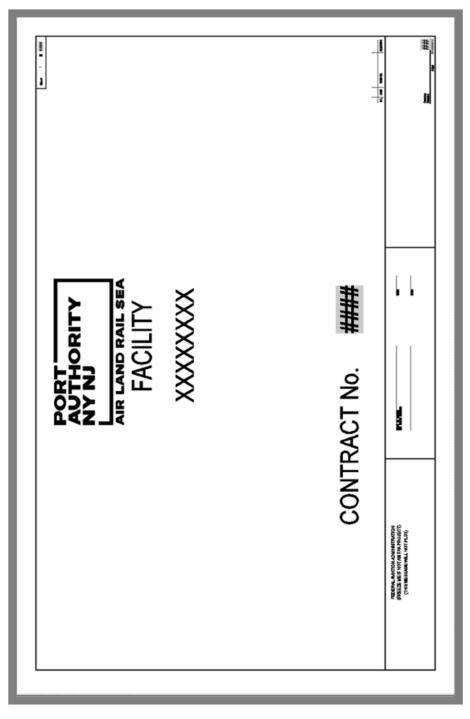
Symbol	Block Name	Layer Name	Description
N	N_ARROW1.dwg	D-ANNO-SYMB	North Arrow
· · · · ·	N_ARROW2.dwg	D-ANNO-SYMB	North Arrow

The letter "D" under the Layer Name is to be replaced by the specific Discipline's Discipline

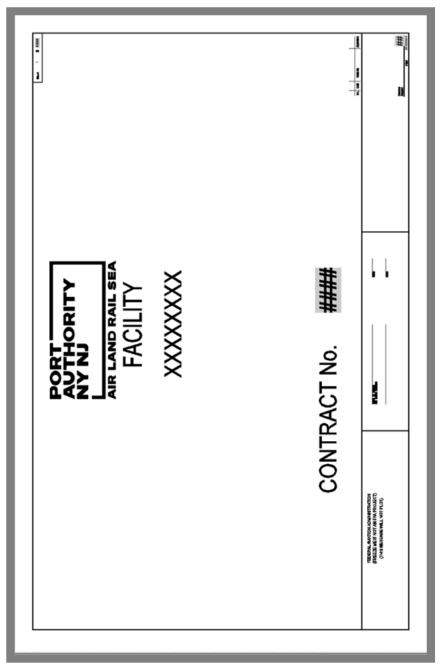


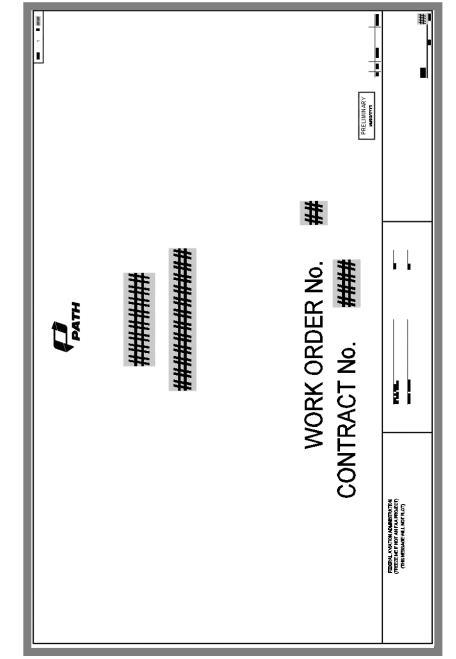
1.17 APPENDIX C – CONTRACT BORDERS AND TITLE SHEETS

1.17.1 TITLE SHEET



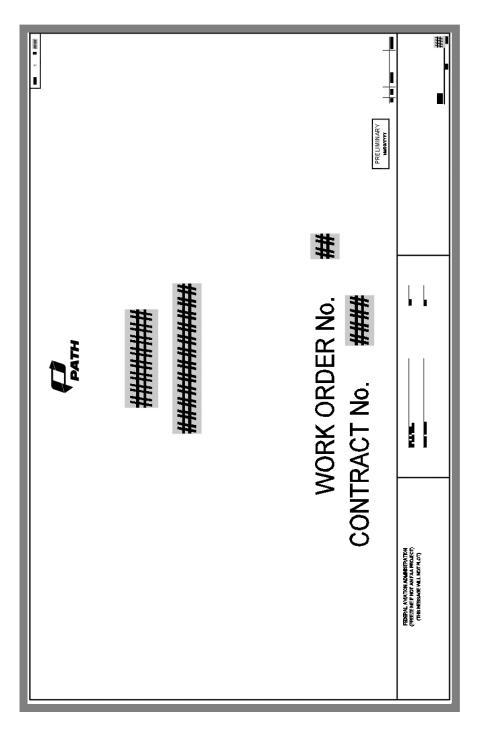
1.17.2 TITLE SHEET OVERSIZED (OS)





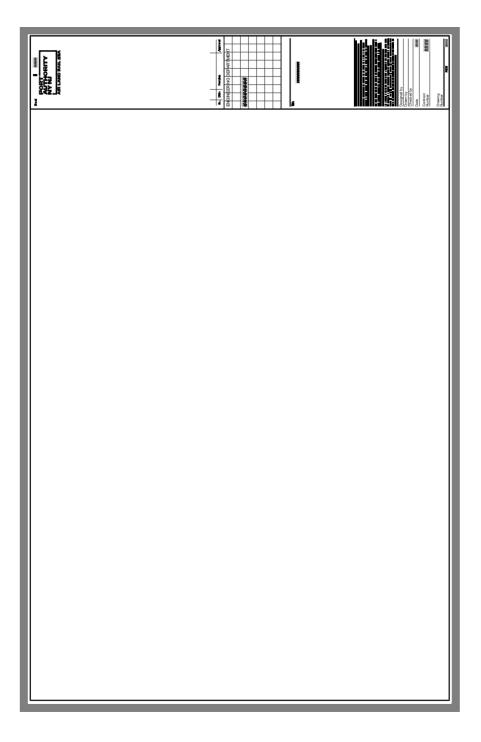
1.17.3 TITLE SHEET PATH

1.17.4 TITLE SHEET PATH OVERSIZED (OS)

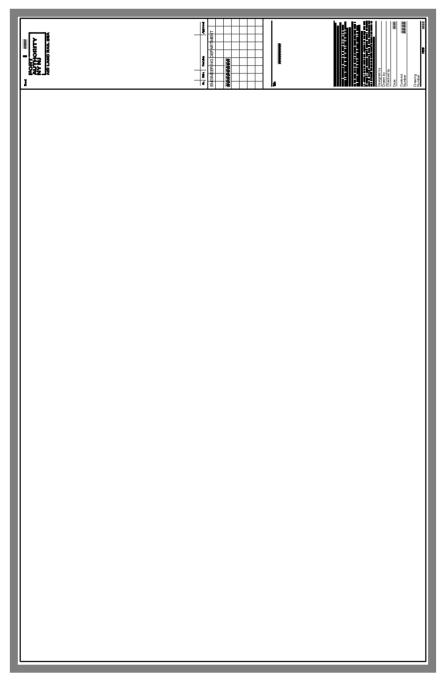




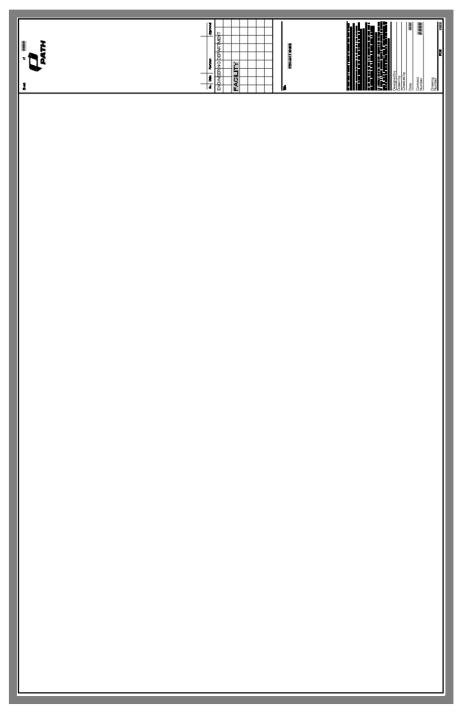
1.17.5 CONTRACT BORDER



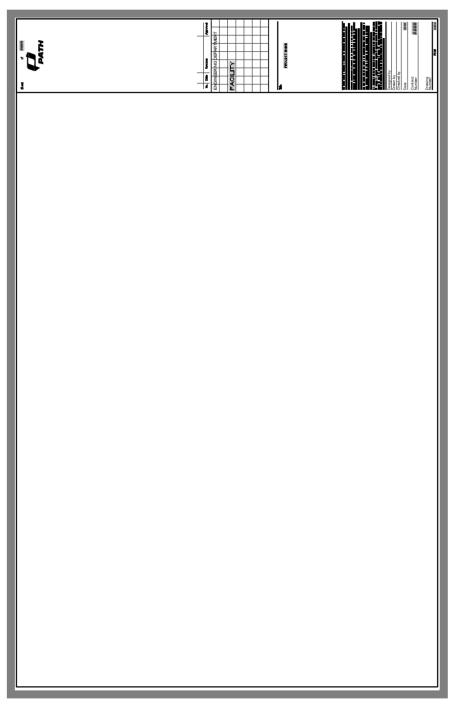
1.17.6 CONTRACT BORDER OVERSIZED (OS)



1.17.7 CONTRACT BORDER PATH



1.17.8 CONTRACT BORDER PATH OVERSIZED (OS)



1.18 APPENDIX D – DISTRIBUTION FILES

This section identifies the files supplied for general use within the CAD Standard. The entire CAD Standard can be found internally at <u>K:\Application\EAD\CAD_Standards\2018</u> or externally downloaded from:

Port Authority NY & NJ Engineering Available Documents

K:\Application\Palettes	
	Contains all Tool Palette files (.atc) specific to that discipline.
K:\Application\Plotter	
	Contains all Plotter Configuration files (.pc3) specific to that discipline.
K:\Application\Plotter\Plot_Styles	
PA – MasterCOLOR.ctb	Plot Style for plotting Drawings in Color.
PA – MasterFULL.ctb	Plot Style for plotting Full Scale Drawings.
PA – MasterHALF.ctb	Plot Style for plotting Half Scale Drawings.
PA - MasterQUARTER.ctb	Plot Style for plotting Quarter Scale Drawings.
K:\Application\Plotters\PMP Files	
	Contains all Plotter Model Parameter files (.pmp) specific to that discipline.
K:\Application\EAD\CAD_Standards\2018	
	Contains the "EAD_CAD_Standard" and "Request to Change Standard" documents.
All_Disciplines	Contains all cross discipline support files and content.
<discipline></discipline>	Contains all discipline specific support files and content.
K:\Application\EAD\CAD_Standards\2018\A	All_Disciplines\Contract_Borders
Border - ANSI A - Horizontal.dwg	8.5x11 landscape border for use in non-contract drawings.
Border - ANSI A - Vertical.dwg	8.5x11 portrait border for use in non-contract drawings.
Border - ANSI B - Horizontal.dwg	11x17 landscape border for use in non-contract drawings.
Border - ANSI B - Vertical.dwg	11x17 portrait border for use in non-contract drawings.
Contract_Border - OS.dwg	34x56 border for contract drawings.
Contract_Border_PATH - OS.dwg	34x56 border for Port Authority Trans Hudson contract drawings.
Contract_Border_PATH.dwg	22x34 border for Port Authority Trans Hudson contract drawings.
Contract_Border.dwg	22x34 border for contract drawings.
Drawing_Info - OS.dwg	Drawing information block for use with 34x56 borders.
Drawing_Info.dwg	Drawing information block for use with 22x34 borders.
Drawing_Info_PATH,dwg	Drawing information block (Port Authority Trans Hudson) for use with 22x34 borders
Drawing_Info_PATH - OS,dwg	Drawing information block (Port Authority Trans Hudson) for use with 34x56 borders
Title_Sheet - OS.dwg	34x56 title sheet for contract drawings.
Title_Sheet - PATH - OS.dwg	34x56 title sheet for Port Authority Trans Hudson contract drawings.
Title_Sheet - PATH.dwg	22x34 title sheet for Port Authority Trans Hudson contract drawings.
Title_Sheet.dwg	22x34 title sheet for contract drawings.

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps				
Contract_Border – Stamp_Law-Review.dwg Law Review submission stamp for use on 22x34 borders.				
Contract_Border – Stamp_Law-Review - OS.dwg Law Review submission stamp for use on 34x56 borders.				
Contract_Border – Stamp_Preliminary.dwg Preliminary submission stamp for use on 22x34 borders.				

Contract_Border - Stamp_Preliminary - OS.dwg	Preliminary submission stamp for use on 34x56 borders.		
Contract_Border - Stamp_QA-Submission.dwg	Quality Assurance submission stamp for use on 22x34 borders for FTA projects.		
Contract_Border – Stamp_QA-Submission - OS.dwg	Quality Assurance submission stamp for use on 34x56 borders for FTA projects.		
Contract_Border – Stamp_Submission.dwg	Percent submission stamp for use on 22x34 borders.		
Contract_Border – Stamp_Submission - OS.dwg	Percent submission stamp for use on 34x56 borders.		
CP - WARNING.dwg	Confidential Privileged Warning sign for use on stamp for use on 22x34 borders for CP drawings.		
CP - WARNING - OS.dwg	Confidential Privileged Warning sign for use on 34x56 borders for CP drawings		
Drawing_Info - Stamp_Cbar.dwg	Confidential stamp for use on 22x34 borders for C drawings.		
Drawing_Info – Stamp_Cbar – OS.dwg	Confidential stamp for use on 34x56 borders for C drawings.		
Drawing_Info - Stamp_CPbar.dwg	Confidential Privileged stamp for use on 22x34 borders for CP drawings.		
Drawing_Info – Stamp_CPbar – OS.dwg	Confidential Privileged stamp for use on 34x56 borders for CP drawings.		
Drawing_Info – Stamp_PERA.dwg	Single or Multiple consultant company providing NJ/NY RA or PE signatures on 22x34 drawings.		
Drawing_Info - Stamp_PERA - OS.dwg	Single or Multiple consultant company providing NJ/NY RA or PE signatures on 34x56 drawings.		
Drawing_Info - Stamp_PERA_Bi-State.dwg	Multiple consultant company providing NJ & NY RA or PE signatures on 22x34 drawings.		
Drawing_Info - Stamp_PERA_Bi-State - OS.dwg	Multiple consultant company providing NJ & NY RA or PE signatures on 34x56 drawings.		
Drawing_Info - Stamp_Revision.dwg	Revision stamp for use on both 22x34 and 34x56 drawings.		
Drawing_Info - Stamp_Triangle.dwg	Revision triangle marker for placement near revision clouds.		
K:\Application\Fonts			
HELV-2F.SXH	Font used for Contract Border and Title Sheet information.		
HELV-M.SHX	Font used for Contract Border, Title Sheet & Alternate Title information.		
K:\Application\EAD\CAD_Standards\2018\All_D	isciplines\Layer Key Styles		
PA_LKS-ACA2018 - Architectural	Layer Key Styles for use by the Architectural Discipline within ACA		
PA_LKS-ACA2018 - Structural	Layer Key Styles for use by the Structural Discipline within ACA		
K:\Application\EAD\CAD_Standards\2018\All_D	isciplines\Page Setups		
115Bway.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located at 115 Broadway.		
Architectural.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Architectural Plotter Room at 4 WTC.		
Civil.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Civil Plotter Room at 4 WTC.		
Electrical.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Electrical Plotter Room at 4 WTC.		
Environmental.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Environmental Plotter Room at 4 WTC.		
Geotechnical.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Geotechnical Plotter Room at 4 WTC.		
Mechanical.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Mechanical Plotter Room at 4 WTC.		
	Drawing file containing pre-configured page setups for high quality full and over-sized PDF creation		

Structural.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Structural Plotter Room at 4 WTC.	
Traffic.dwg	Drawing file containing pre-configured page setups for plotting drawings to devices located within the Traffic Plotter Room at 4 WTC.	
K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Palettes		
	Generic Tool Palettes for use by all disciplines.	

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Sample Project				
	Contains a Sample Folder Structure that mimics the Folder Structure used when new projects are created.			
K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Support				
PA.shx	Shape file used by certain line types.			
PA - Design.lin	Line type definition file containing custom line types.			
K:\Application\EAD\CAD_Standards\2018\All_I	Disciplines\Symbols			
BS1-1_2in-1ft.dwg	1 1/2" = 1' Bar Scale			
BS1_2in-1ft.dwg	1/2" = 1' Bar Scale			
BS1_4in-1ft.dwg	1/4" = 1' Bar Scale			
BS1_8in-1ft.dwg	1/8" = 1' Bar Scale			
BS1_16in-1ft.dwg	1/16" = 1' Bar Scale			
BS1_32in-1ft.dwg	1/32" = 1' Bar Scale			
BS1in-1ft.dwg	1" = 1' Bar Scale			
BS1in-1in.dwg	1" = 1" Bar Scale			
BS1in-5ft.dwg	1" = 5' Bar Scale			
BS1in-10ft.dwg	1" = 10' Bar Scale			
BS1in-20ft.dwg	1" = 20' Bar Scale			
BS1in-25ft.dwg	1" = 25' Bar Scale			
BS1in-30ft.dwg	1" = 30' Bar Scale			
BS1in-40ft.dwg	1" = 40' Bar Scale			
BS1in-50ft.dwg	1" = 50' Bar Scale			
BS1in-60ft.dwg	1" = 60' Bar Scale			
BS1in-100ft.dwg	1" = 100' Bar Scale			
BS1in-200ft.dwg	1" = 200' Bar Scale			
BS1in-400ft.dwg	1" = 400' Bar Scale			
BS1in-500ft.dwg	1" = 500' Bar Scale			
BS3_4in-1ft.dwg	3/4" = 1' Bar Scale			
BS3_8in-1ft.dwg	3/8" = 1' Bar Scale			
BS3_16in-1ft.dwg	3/16" = 1' Bar Scale			
BS3_32in-1ft.dwg	3/32" = 1' Bar Scale			
BS3in-1ft.dwg	3" = 1' Bar Scale			
BS6in-1ft.dwg	6" = 1' Bar Scale			
N_ARROW1.dwg	North Arrow within Bubble			
N_ARROW2.dwg	North Arrow			
K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Template\SSM				
PA – SheetSet Master.dst	Sheet set manager template for all the disciplines.			
PA – SSM Contract Borders - arch-inch.dwt	Drawing Template for Architectural Unit based Plotsheet drawings in Vault			

PA – SSM Contract Borders - deci-feet.dwt	Drawing Template for Decimal Unit Plotsheet based drawings in Vault		
K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Template			
PA – arch-inch.dwt	Drawing Template for Architectural Unit based drawings.		
PA – deci-feet.dwt	Drawing Template for Decimal Unit based drawings.		
K:\Application\EAD\CAD_Standards\2018\ <discipline>\Layers</discipline>			
Contains all Layer template files (.dwt) specific to that discipline.			
K:\Application\EAD\CAD_Standards\2018\ <discipline>\Symbols</discipline>			
Contains all the symbol library files (.dwg) used by that discipline.			

1.19 APPENDIX E – USING STANDARD FORMS ON EOL (INTERNAL USE ONLY)

1.19.1 PID SEARCH

The PID Search can be used to find additional information pertaining to a project such as the Contract Number, PID, Title, Charge Code(s) and Facility name by searching based on either the PID, Contract Number or Project Title.

PID Search	
	for Submit
PID Title Contract Number	

To use this form:

- 1. Pick the appropriate category that you want to search for, the options are PID, Contract Number or Title.
- 2. Type in the appropriate search information based on the category you are searching in.
- 3. Select Submit

Once the query is finished a list of all projects matching your criteria will be displayed with the following information Contract Number, PID, Title, Charge Code and Facility Name.

lack					
Contract No.	PID	Title	Charge Code	Facility Name	
EWR154025	06313000	Terminal A Vertical Circulation Improvements		Newark Liberty International Airport	
EWR154025	06313000	Terminal A Vertical Circulation Improvements		Newark Liberty International Airport	

1.19.2 REQUEST PROJECT ARCHIVAL

This form is used to request that a project be archived from the Project "M:" drive to the Archive "N:" drive in order to preserve a contract sets files at a particular milestone. Please ensure that all disciplines involved place the appropriate folders within the appropriate Submittals folder for their discipline prior to requesting the Project Archival.

Request for Project Archival				
This form can be used by	y the LEA and Task Leader			
Date Requested: 8/29/2019	Requested By*: Enter a name or email address Discipline:			
Upload to Livelink? 🗌 Yes	Project Group*: CAD			
Stage:	Туре:			
Number:	Facility: AMT 🗸			
PID:	Folder Path: M:/			
Contract Number:	Task Leader: Enter a name or email address			
Project Title:	Consultant Name:			
Please ensure that every discipline involved in the project has placed their MODEL, PLOTSHEETS and PUBLISH folders within their own discipline SUBMITTALS folder so we can archive the project.				
Disciplines				
Architecture Civil Electrical Environmental Geotechnical Mechanical Structural				
Number: PID: Contract Number: Project Title: Please ensure that every discipline involved in the PUBLISH folders within their own discipline SU Disci Archi Civil Elect Envir Geot Mech	Facility: AMT ✓ Folder Path: M:/ Task Leader: Enter a name or email address Onsultant Consultant Name: a project has placed their MODEL, PLOTSHEETS and JBMITTALS folder so we can archive the project. iplines itecture trical ronmental technical nanical ctural			

To use this form:

- 1. **Requested By**: Either the LEA or the Task Leader may request for an Archival.
- 2. **Email:** It is mandatory that you supply a valid email address to receive a confirmation of your request. This email will also be used to notify you as soon as the request has been processed.
- 3. **Discipline:** Pick which Discipline you belong to.
- 4. **Upload to Livelink:** Check this box if you would like files uploaded to a project website on Livelink.
- 5. **Project Group:** It is mandatory that you select CAD to engage the process to review the submitted CAD files.
- 6. **Stage:** Enter what stage the project is in, I, II, III or IV.
- 7. Type: Enter the type of submittal this is, PA Review, As-Advertised, 50% Submittal, etc.
- 8. Contract Number: Provide the Contract Number.
- 9. **Facility:** Enter the facility the project is for.
- 10. **PID:** Enter the PID of the project
- 11. **Folder Path:** Provide the path to the folder that needs to be archived.
- 12. **Disciplines:** Check all the disciplines involved in this project. This will ensure that all the involved disciplines' folders are archived.

1.19.3 REQUEST PROJECT CAD DRAWINGS

This Section Currently Under Construction

1.19.4 REQUEST FOR MANDATORY CAD REVIEW

		Request for C	AD/BIM Review	
Date*:	3/23/2020		Review Type*:	PA Review
LEA:	Enter a name or email addre	255	Discipline:	V
Facility*:	EWR 🗸		PID*:	
Project Group*:	CAD		Submittal Percentage*:	%
Stage*:			Project Manager:	Enter a name or email address
Project Title*:			Confidential:	
Contract Number*:	(Format: XXX-000.000)		Confidential Privileged:	
Folder Path:	M:			
	-			
	R:			
				DEL, PLOTSHEETS and PUBLISH
folders within their own		ALS TOIDER SO Task Leade		-
CAD/BIM	Discipline Architecture	Task Leade	:F	Consultant/Contractor
	Architecture	(Format: Last nam	ie, First name)	
v	Landscape			
	Civil	(Format: Last nam	ne, First name)	
	Citi	(Format: Last nam	ne, First name)	
~	Electrical	(Format: Last nam	no First name)	
V	Electronics		ie, riist name)	
		(Format: Last nam	ne, First name)	
	Environmental	(Format: Last nam	ne. First name)	
✓	Geotechnical			
	Mechanical	(Format: Last nam	ne, First name)	
	Mechanica	(Format: Last nam	ne, First name)	
✓	Fire Protection			
	Plumbing	(Format: Last nam	ie, First name)	
		(Format: Last nam	ne, First name)	
~	Structural	(Format: Last nam	ne First name)	
✓	Traffic		ie, machanie)	
		(Format: Last nam	ie, First name)	

- 1. **Type of Review:** Pick the type of Review (Interim or PA Wide Review)
- 2. **LEA**: Only the LEA may request for a Mandatory CAD Review. It is important to provide the name of the LEA for the results of the CAD Review.
- 3. **Project Group:** It is mandatory that you select CAD to engage the process to review the submitted CAD files.
- 4. **Stage:** Please provide the Stage the project is currently at the time the request was sent.
- 5. Project Title: Provide the Title of the Project.
- 6. Contract Number: Provide the Contract Number.
- 7. Official: For official reviews select "Yes". This needs to be selected for Mandatory CAD Review.
- 8. **Discipline:** Enter the discipline that the LEA belongs to.
- 9. Facility: Enter the facility the project is for.
- 10. **Charge Code:** Enter the Charge Code to be used by the CAD Support Group for CAD Standards Review.
- 11. **PID:** Enter the PID of the project.
- 12. **PA Wide Review Date:** Provide the PA Wide Review date of the project.
- 13. **Project Manager:** Provide the name of the Program Manager of the project to be review.
- 14. **Disciplines/Taskleaders/Consultant name:** Check all the disciplines involved in this project. This will ensure that all the involved disciplines' drawings are reviewed. Please ensure that all disciplines place their drawings in their appropriate submittal folders. It is important that the names of the Task leaders are provided in order to provide them with the results of the CAD Standards review. If a consultant has prepared the drawings for a particular discipline the consultant company name must also be provided because the requirements of CAD Standards compliance are slightly different for consultants.

1.19.5 REQUEST FOR MANDATORY WORK ORDER CAD REVIEW

		Request for C	AD/BIM Review								
Date*:	3/23/2020		Review Type*:	Work Order							
LEA:	Enter a name or email addr	'ess	Discipline:	~							
Facility*:	EWR 🗸		PID*:								
Project Group*:	CAD		Submittal Percentage*:	%							
Stago*:			Project Manager:	Enter a name or email address							
Stage*: Project Title*:			Confidential:								
Contract Number*:	(Format: XXX-000.000)		Confidential Privileged:	•							
Folder Path:	M:										
	R:										
				_							
Please ensure that every discipline involved in the project has placed their MODEL, PLOTSHEETS and PUBLISH											
			we can archive the pro	-							
	Discipline	Task Leade	r	Consultant/Contractor							
	Architecture	(Format: Last nam	ne, First name)								
~	Landscape										
V	Civil	(Format: Last nam	ne, First name)								
		(Format: Last nam	ne, First name)								
	Electrical	(Format: Last nam	ne, First name)								
v	Electronics	(T									
V	Environmental	(Format: Last nam	ie, First name)								
	Castadadad	(Format: Last nam	ie, First name)								
	Geotechnical	(Format: Last nam	ne, First name)								
	Mechanical	(Format: Last nam	no First name)								
V	Fire Protection	(Format: Last nam	e, rischame)								
	Plumbing	(Format: Last nam	ne, First name)								
	Fidmbing	(Format: Last nam	ne, First name)								
	Structural	(Format: Last nam	ne, First name)								
V	Traffic										
		(Format: Last nam	ne, First name)								

- 1. **LEA**: Only the LEA may request for a Work Order CAD Review. It is important to provide the name of the LEA for the results of the CAD Review.
- 2. **Project Group:** It is mandatory that you select CAD to engage the process to review the submitted CAD files.
- 3. **Discipline:** Enter the discipline that the LEA belongs to.
- 4. **Charge Code:** Enter the Charge Code to be used by the CAD Support Group for CAD Standards Review.
- 5. **Contract Number:** Provide the Contract Number.
- 6. **PID:** Enter the PID of the project.

- 7. **Project Title:** Provide the Title of the Project.
- 8. **Stage:** Enter what stage the project is in, I, II, III or IV.
- 9. Facility Name: Enter the facility the project is for.
- 10. Folder Path: Provide the path to the folder that needs to be reviewed.
- 11. Official: For official reviews select "Yes". This needs to be selected for Mandatory CAD Review.
- 12. **Disciplines/Taskleaders/Consultant name:** Check all the disciplines involved in this project. This will ensure that all the involved disciplines' drawings are reviewed. Please ensure that all disciplines place their drawings in their appropriate submittal folders. It is important that the names of the Task leaders are provided in order to provide them with the results of the CAD Standards review. If a consultant has prepared the drawings for a particular discipline the consultant company name must also be provided because the requirements of CAD Standards compliance are slightly different for consultants.

1.19.6 REQUEST PROJECT FOLDER STRUCTURE

Request Project Folder Structure

The purpose of this form is to provide the PA Help Desk with enough information to create and maintain a Project Folder on the network to store all electronic documents related to the project.

ATTENTION: BEFORE SUBMITTING A REQUEST, PLEASE MAKE SURE THAT THERE IS NO EXISTING FOLDER FOR THE PROJECT.

Date Requested *		8/29/2019				
Requested By *		Enter a name or email address				
Email						
Drive *		✓M: _R:				
PID *						
Facility Name *		JFK 🗸	•			
Project Name						
Contract Number						
Project Manager		Enter a name or email address				
LEA		Enter a name or ema	il address			
Consultant Name						
Confidential and	d Privilege Project	No 🗸				
Discipline Folder		this portion if this is ave access to the Co		. Names of People th vilege folder.	at	
Architectural	Enter names or email	addresses				
Civil	Enter names or email					
Electrical	Enter names or email addresses					
Environmental	Enter names or email addresses					
Geotechnical	Enter names or email addresses					
Mechanical	Enter names or email addresses					
Structural	Enter names or email	addresses				
Traffic	Enter names or email	addresses				

- 1. Requested By: Person requesting the creation of the folder structure
- 2. **Email:** It is mandatory that you provide a valid email address to receive a confirmation of your request. This email will also be used to notify you as soon as the request has been processed
- 3. Drive: Select "M" for creation of Folder Structure on the M drive for CAD Projects.
- 4. **PID:** Enter the PID of the project
- 5. **Facility Name:** Enter the facility the project is for
- 6. Project Name: Complete title of the project
- 7. Contract Number: Enter the Contract Number
- 8. **Charge Code:** Enter the Charge Code to be used by the CAD Support Group for CAD Standards Review.
- 9. **Project Manager:** Enter the name of the Project Manager.
- 10. LEA: Name of the LEA
- 11. Confidential Privileged Project: Specify if it is a Confidential Privileged project or not
- 12. Names of People that should have access to the CP folder: If this is a Confidential Privileged project, the person requesting for the folder structure must specify the names of the people who should be granted access to the CP folder.

1.20 APPENDIX F – ARCHITECTURAL DISCIPLINE

- **1.20.1 CONTENT PREFERENCES**
- 1.20.2 LAYER STRATAGEM
- 1.20.2.1 ARCHITECTURAL WORK

DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
A	ANNO	BUS_		5	Continuous	Yes	BUSES
A	ANNO	BREK		5	Continuous	Yes	BREAK LINE
A	ANNO	CARS		46	Continuous	Yes	CARS
A	ANNO	CHNG		51	DIVIDE4	Yes	IDENTIFICATION OF UPDATED WORK GENERAL PLAN/ELEVATION/SECTION
A	ANNO	CLIN		46	CENTER5	Yes	CENTERLINE
A	ANNO	COLS	BUBL	4	Continuous	Yes	COLUMN CENTERLINE IDENTIFICATION
A	ANNO	COLS	CLIN	46	CENTER5	Yes	COLUMN CENTERLINE EXTENSION USED WITH NOTES
А	ANNO	DETL	BUBL	255	DASHED5	Yes	DETAIL BUBBLE OUTLINE (Indicate blow- up or detail)
Α	ANNO	DIMS		1	Continuous	Yes	DIMENSIONS
Α	ANNO	DIMS	GUID	5	DOT8	Yes	DIMENSION GUIDE LINE
А	ANNO	ELEV	FFLR	1	Continuous	Yes	SPOT ELEVATION SYMBOL (or block insertion layer)
Α	ANNO	ELEV	GUID	1	DOT8	Yes	VERTICAL ELEVATION SYMBOL LINE
А	ANNO	ELEV	VERT	1	Continuous	Yes	VERTICAL ELEVATION SYMBOL ON SECTION/ELEVATION
А	ANNO	IDEN	DETL	3	Continuous	Yes	DETAIL SYMBOL AND EXTENSION LINE TO BUBBLE
А	ANNO	IDEN	DOOR	1	Continuous	Yes	DOOR NUMBER SYMBOL; HARDWARE GROUP ETC.
А	ANNO	IDEN	ELEV	3	Continuous	Yes	ELEVATION SYMBOL (or block insertion layer)
Α	ANNO	IDEN	FURN	1	Continuous	Yes	FURNITURE IDENTIFICATION SYMBOL
А	ANNO	IDEN	GLAZ	1	Continuous	Yes	WINDOW NUMBER SYMBOL BLOCK INSERTION LAYER
А	ANNO	IDEN	ROOM	1	Continuous	Yes	ROOM IDENTIFICATION (SHOWN AS A BLOCK)
А	ANNO	IDEN	SCUT	3	Continuous	Yes	SECTION CUT SYMBOL (or block insertion layer)
А	ANNO	IDEN	WALL	1	Continuous	Yes	PARTITION TYPE IDENTIFICATION SYMBOL
А	ANNO	LGND		212	Continuous	Yes	LEGENDS AND SYMBOLS ASSOCIATED WITH LEGENDS
Α	ANNO	LGND	DISC	1	Continuous	Yes	LEGEND DISCLAIMER
Α	ANNO	MLIN		4	DIVIDE2	Yes	MATCH LINE
А	ANNO	NOTE		212	Continuous	Yes	BLOCKS OF MISCELLANEOUS NOTES; BOILER PLATE NOTES AND FRAMES
Α	ANNO	PEOP		46	Continuous	Yes	PEOPLE, PEDESTRIANS etc.
Α	ANNO	REDL		10	Continuous	Yes	REDLINE
А	ANNO	SCUT	GUID	212	DOT8	Yes	SECTION CUT LINE CONNECTING SECTION HEAD AND TAIL
Α	ANNO	SYMB	AROW	5	Continuous	Yes	DIRECTIONAL ARROW
А	ANNO	SYMB	MISC	3	Continuous	Yes	MISCELLANEOUS SYMBOLS
А	ANNO	SYMB	NPLT	200	Continuous	No	MISCELLANEOUS SYMBOLS- NOT PLOTTED
А	ANNO	SYMB	NRTH	5	Continuous	Yes	NORTH ARROW
А	ANNO	SYMB	SCLE	1	Continuous	Yes	SCALE BAR
А	ANNO	TEXT		212	Continuous	Yes	TEXT (Generated by Leader; Quick Leader or Multi-Leader)
А	ANNO	TEXT	CLL_	1	Continuous	Yes	CONTRACT LIMIT LINE TEXT
А	ANNO	TEXT	DATE	5	Continuous	Yes	PRESENTATION DATE
Α	ANNO	TEXT	LEDR	5	Continuous	Yes	TEXT LEADER LINE (if drawn separately)
Α	ANNO	TEXT	MISC	5	Continuous	Yes	SECONDARY TEXT
A	ANNO	TEXT	MLIN	5	Continuous	Yes	MATCH LINE TEXT



							-
A	ANNO	TEXT	PROP	1	Continuous	Yes	PROPERTY LINE TEXT
A	ANNO	TEXT	ROWL	212	Continuous	Yes	RIGHT OF WAY TEXT
A	ANNO	TEXT	STRE	46	Continuous	Yes	STREET NAME TEXT
A	ANNO	TRAN		46	Continuous	Yes	TRAINS, SUBWAYS & MONORAILS
A	ANNO	TRUK	-	46	Continuous	Yes	TRUCKS DRAWING TITLE WITH SCALE BAR
A	ANNO	TTLB		51	Continuous	Yes	DRAWING TITLE WITH SCALE BAR DRAWING TITLE ON PRESENTATION
A	ANNO	TTLB	PRES	5	Continuous	Yes	BORDER
A	ANNO	VPRT		200	Continuous	Yes	VIEW PORT
A	REFN	AREA	OTLN	255	DASHED4	Yes	AREA CALCULATION BOUNDARY LINES
А	REFN	AREA	TEXT	6	Continuous	Yes	AREA CALCULATION, ROOM NUMBER, TENANT IDENTIFICATION NUMBERS (Shown As Text)
A	CLNG			1	Continuous	Yes	CEILING GRID - TILE PATTERN
A	CLNG	BEAM		5	Continuous	Yes	STEEL BEAM IN RCP PLANS
A	CLNG	LGHT		1	Continuous	Yes	LIGHT FIXTURES or block insertion layer
A	CLNG	OPNG		1	Continuous	Yes	CEILING/ROOF PENETRATIONS OVERHANG OUT-LINE SHOWN ON
A	CLNG	OVHG		5	Continuous	Yes	REFLECTED CEILING PLAN (Only)
A	CLNG	RDFF		1	Continuous	Yes	RETURN AIR DIFFUSERS
A	CLNG	SDFF		1	Continuous	Yes	SUPPLY DIFFUSERS
A	CLNG	SHFT	OVHD	46	DASHED5	Yes	SHAFT PENETRATIONS OVERHEAD
A	CLNG	SIGN		1	Continuous	Yes	GENERAL OVERHEAD SIGNAGE
А	CLNG	SKLT		5	Continuous	Yes	SKYLIGHT OUT-LINE SHOWN ON
A	CLNG	SOFF		212	Continuous	Yes	REFLECTED CEILING PLAN (Only) CEILING SOFFIT EDGES
A	CLNG	SPKR		1	Continuous	Yes	SPEAKER
A	CLNG	SPRN		1	Continuous	Yes	SPRINKLER
A	COLS			51	Continuous	Yes	COLUMNS or block insertion layer
А	COLS	STL_		3	Continuous	Yes	STRUCTURAL STEEL FOR COLUMNS or block insertion layer
А	COLS	STL_	HIDN	5	HIDDEN4	Yes	STRUCTURAL STEEL ELEMENTS HIDDEN
А	COLS	STL_	STRS	46	Continuous	Yes	ARCHITECTURAL STEEL COLUMNS IN STAIR
A	COLS	BASE	PLAT	5	Continuous	Yes	COLUMN BASE PLATE
А	COLS	BEAM		46	Continuous	Yes	STRUCTURAL BEAM ELEMENTS or block insertion layer
А	COLS	BEAM	ABVE	46	DASHED5	Yes	STRUCTURAL BEAM ELEMENTS ABOVE
А	COLS	CLIN		46	CENTER5	Yes	STRUCTURAL COLUMN CENTERLINE
A	COLS	CONC		51	Continuous	Yes	CONCRETE COLUMNS
A	COLS	DETL		1	Continuous	Yes	COLUMN DETAIL
A	COLS	ENCL		212	Continuous	Yes	COLUMN ENCLOSURE
A	COLS	HIDN		5	HIDDEN4	Yes	HIDDEN COLUMN ELEMENTS
A	COLS	MISC		5	Continuous	Yes	MISCELLANEOUS COLUMNS ELEMENTS
A	COLS	PCST		3	Continuous	Yes	PRECAST CONCRETE COLUMNS
A	COLS	PILE		5	Continuous	Yes	COLUMN PILES FULL HEIGHT DOOR or block insertion
A	DOOR			212	Continuous	Yes	layer
A	DOOR	HEAD		212	Continuous	Yes	DOOR HEADERS (APPEAR ON REFLECTED CEILING PLAN (Only)S)
A	DOOR	JAMB		212	Continuous	Yes	DOOR JAMB
А	DOOR	PRHT		1	Continuous	Yes	PARTIAL HEIGHT DOOR; SWING AND LEAF
A	DOOR	SWNG		5	DASHED4	Yes	DOOR SWING (ONLY WHEN DRAWN AS LINEWORK)
A	ELEV	STL_		212	Continuous	Yes	STEEL COLUMNS ELEVATION
A	ELEV	STL_	DETL	5	Continuous	Yes	STEEL FLANGE/WEB IN ELEVATION
A	ELEV	BALC		1	Continuous	Yes	ELEVATION OF BALCONY ELEMENTS
А	ELEV	BLDG	BYND	145,145,145	Continuous	Yes	BUILDING ELEVATIONS IN THE DISTANCE
A	ELEV	BOLL		46	Continuous	Yes	SECURITY BOLLARD ELEVATION
A	ELEV	BYND		1	Continuous	Yes	MATERIALS BEYOND
A	ELEV	CNPY		1	Continuous	Yes	
A	ELEV	COLS		5	Continuous	Yes	ELEVATION OF COLUMN ELEMENTS ARCHITECTURAL STEEL COLUMN
A	ELEV	COLS	STL_	1	Continuous	Yes	ELEVATION OF COLUMNS IN THE
A	ELEV	COLS	BYND	46	Continuous	Yes	DISTANCE
A	ELEV	COLS	CONC	212	Continuous	Yes	ELEVATION OF CONCRETE COLUMNS
A	ELEV	COLS	ENCL	212	Continuous	Yes	COLUMN ENCLOSURE ELEVATION



А	ELEV	COLS	HIDN	5	DASHED4	Yes	ELEVATION OF HIDDEN COLUMN ELEMENTS
A	ELEV	CURB		46	Continuous	Yes	CURB ELEVATION
Α	ELEV	DECK		1	Continuous	Yes	METAL DECK IN ELEVATION
A	ELEV	DOOR		5	Continuous	Yes	DOOR ELEVATION
А	ELEV	DOOR	BYND	46	Continuous	Yes	DOOR ELEVATION IN THE DISTANCE
A	ELEV	EQPM		212	Continuous	Yes	ELEVATIONS OF EQUIPMENT
A	ELEV	ESCL		46	Continuous	Yes	ESCALATOR ELEVATION
A	ELEV	ESCL	BYND	145,145,145	Continuous	Yes	ESCALATOR ELEVATION IN THE DISTANCE
A	ELEV	ESCL	EQPM	46	DASHED5	Yes	ESCALATOR AND EQUIPMENT ELEVATIONS
A	ELEV	ESCL	HIDN	46	DOT5	Yes	ESCALATOR ELEVATION HIDDEN
А	ELEV	ESCL	MACH	46	DASHED5	Yes	ESCALATOR MACHINERY ELEVATIONS (NON-EQUIPMENT)
A	ELEV	EVTR		5	Continuous	Yes	ELEVATOR ELEVATION
А	ELEV	EVTR	BYND	90,90,90	Continuous	Yes	ELEVATOR ELEVATION IN THE DISTANCE
Α	ELEV	EVTR	HIDN	46	DOT5	Yes	ELEVATOR ELEVATION HIDDEN
A	ELEV	FASA		1	Continuous	Yes	FASCIA ELEVATION
A	ELEV	FENC		1	Continuous	Yes	ARCHITECTURAL FENCE ELEVATION
Α	ELEV	FGPN		5	Continuous	Yes	FIBERGLASS WALL PANELS/JOINTS IN ELEVATION
A	ELEV	FURN		5	Continuous	Yes	ELEVATION OF FURNITURE
A	ELEV	FURN	PLNT	5	Continuous	Yes	SECURITY PLANTER ELEVATION
A	ELEV	GLAZ		1	Continuous	Yes	WINDOW AND/OR GLASS ELEVATION
A	ELEV ELEV	GLAZ GRAL	MULL	46 5	Continuous Continuous	Yes Yes	WINDOW MULLION ELEVATION GUARDRAIL ELEVATION
		-					GUARDRAIL ELEVATION
A	ELEV	GRAL	BYND	46	Continuous	Yes	DISTANCE
Α	ELEV	HRAL		5	Continuous	Yes	HANDRAIL ELEVATION
А	ELEV	HRAL	BYND	46	Continuous	Yes	HANDRAIL ELEVATION IN THE DISTANCE
А	ELEV	LGHT	CLNG	5	Continuous	Yes	ELEVATION CEILING MOUNTED LIGHT FIXTURE
А	ELEV	LGHT	SCON	5	Continuous	Yes	ELEVATION WALL MOUNTED LIGHT FIXTURE
Α	ELEV	LUVR		5	Continuous	Yes	LOUVERS IN ELEVATION
Α	ELEV	MECH	DUCT	5	Continuous	Yes	ELEVATION OF MECHANICAL DUCT
А	ELEV	MECH	MISC	5	Continuous	Yes	ELEVATION OF MISCELLANEOUS MECHANICAL ELEMENTS
А	ELEV	MECH	REGI	1	Continuous	Yes	ELEVATION OF MECHANICAL REGISTERS
Α	ELEV	RAMP	BYND	5	Continuous	Yes	RAMP ELEVATION IN THE DISTANCE
Α	ELEV	RAMP	HIDN	46	DASHED4	Yes	RAMP ELEVATION HIDDEN
A	ELEV	ROOF		212	Continuous	Yes	ROOF ELEVATION
А	ELEV	ROOF	BYND	145,145,145	Continuous	Yes	ELEMENTS OF ROOF ELEVATIONS IN THE DISTANCE
A	ELEV	ROOF	GUTR	90,90,90	Continuous	Yes	GUTTER AND LEADER - BEYOND
A	ELEV	ROOF	HIDN	46	HIDDEN4	Yes	HIDDEN ROOF ELEMENTS ELEVATION
A	ELEV	SECU		46	Continuous	Yes	SECURITY ELEMENTS ELEVATION
A	ELEV	STRS		46	Continuous	Yes	STAIR ELEVATION
A	ELEV	STRS	GRAL	46	Continuous	Yes	STAIR GUARDRAIL ELEVATION
A	ELEV	STRS		145,145,145	DASHED4	Yes Yes	STAIR ELEVATION HIDDEN STAIR HANDRAIL ELEVATION
A	ELEV ELEV	STRS SWAL	HRAL	46	Continuous Continuous	Yes	STAIR HANDRAIL ELEVATION SLURRY WALL ELEVATION
A	ELEV	SWAL	MISC	46	Continuous	Yes	SLURRY WALL ELEVATION MISCELLANEOUS
A	ELEV	SWAL	TBAK	46	Continuous	Yes	SLURRY WALL TIEBACK ELEVATION
А	ELEV	VENT		212	Continuous	Yes	VENT ELEVATION
A	ELEV	WALL		3	Continuous	Yes	WALL OUTLINE/PERIMETER
A	ELEV	WALL	BHND	5	Continuous	Yes	WALL ELEMENTS ELEVATION BEHIND WALL ELEMENTS ELEVATION IN THE
A	ELEV	WALL	BYND	46	Continuous	Yes	DISTANCE
A	ELEV ELEV	WALL	HIDN MISC	46	HIDDEN4 Continuous	Yes Yes	ELEMENTS BEHIND WALL PLANE WALL ELEVATION
A	ELEV	VVALL	IVIISC	212	Continuous	Yes	EQUIPMENT BLOCK INSERTION LAYER
A	EQPM	CMPK		5	Continuous	Yes	TRASH COMPACTOR
A	EQPM	CMPK	BLOW	46	DOT2	Yes	TRASH COMPACTOR BELOW
A	EQPM	CNVY		5	Continuous	Yes	CONVEYOR BELT
A	EQPM	COGN		51	Continuous	Yes	COGENERATION PLANT
Α	EQPM	FHCB		1	Continuous	Yes	FIRE HOSE CABINET
А	EQPM	FIXT		5	Continuous	Yes	LAVATORIES, TOILETS, URINALS



			1		1	1	
A	EQPM	LIFT		46	Continuous	Yes	CAR LIFT MACHINES
A	EQPM	MECH	DUCT	1	Continuous	Yes	MECHANICAL DUCT EQUIPMENT
A	EQPM	MECH	HVAC	212	Continuous	Yes	AIR CONDITIONER/ HEATING UNIT
A	EQPM	MISC		5	Continuous	Yes	MISCELLANEOUS EQUIPMENT
A	EQPM	NICN		5	DASHED4	Yes	EQUIPMENT NOT IN CONTRACT
A	EQPM	SSTA		212	Continuous	Yes	SUBSTATION EQUIPMENT
A	EQPM	VENT		212	Continuous	Yes	
A	ESCL			1	Continuous	Yes	ESCALATOR BLOCK INSERTION LAYER ESCALATOR ABOVE (or block insertion
A	ESCL	ABVE		46	DASHED5	Yes	layer)
А	ESCL	BLOW		46	DOT4	Yes	ESCALATOR BELOW (or block insertion
					-		layer)
A	ESCL	ENCL		1	Continuous	Yes	ESCALATOR BODY OUTLINE
A	ESCL	HRAL		5	Continuous	Yes	ESCALATOR HANDRAIL HANDRAIL INFILL PANEL – GLASS.
А	ESCL	HRAL	PANL	46	Continuous	Yes	METAL, ETC.
Α	ESCL	MACH	HIDN	46	DASHED5	Yes	ESCALATOR MACHINERY HIDDEN
Α	ESCL	STRS		1	Continuous	Yes	ESCALATOR TREADS
Α	ESCL	WPNT	NPLT	255	Continuous	No	ESCALATOR WORKING POINTS
А	EVTR			212	Continuous	Yes	ELEVATOR BLOCK INSERTION LAYER
А	EVTR	CAB_		46	Continuous	Yes	ELEVATOR CAB
А	EVTR	STL_		3	Continuous	Yes	ELEVATOR STRUCTURAL STEEL
А	EVTR	STL_	PLAT	1	Continuous	Yes	ELEVATOR STEEL PLATE
А	EVTR	STL_	POST	1	Continuous	Yes	ELEVATOR STEEL POSTS
Α	EVTR	STL_	RODS	1	Continuous	Yes	ELEVATOR STEEL RODS
А	EVTR	BOLS	CHNL	1	Continuous	Yes	ELEVATOR BOLSTER CHANNELS
А	EVTR	CALL	KIOS	5	Continuous	Yes	ELEVATOR CALL KIOSK
Α	EVTR	CNWT		5	Continuous	Yes	ELEVATOR COUNTER WEIGHTS
A	EVTR	CROS		51	Continuous	Yes	ELEVATOR CAB CROSSHEAD
A	EVTR	DOOR		1	Continuous	Yes	ELEVATOR DOOR
A	EVTR	DOOR	MISC	5	Continuous	Yes	MISCELLANEOUS DOOR ELEMENTS
A	EVTR	ENCL		212	Continuous	Yes	ELEVATOR ENCLOSURE
A	EVTR	EQPM		1	Continuous	Yes	ELEVATOR EQUIPMENT
A	EVTR	GLAZ		46	Continuous	Yes	ELEVATOR GLASS
A	EVTR	HIDN		46	HIDDEN4	Yes	HIDDEN ELEVATOR ELEMENTS
A	EVTR	HRAL		5	Continuous	Yes	ELEVATOR HANDRAIL
A	EVTR	HWAY	EQPM	8	Continuous	Yes	ELEVATOR HOIST WAY EQUIPMENT
A	EVTR	HYDR	CYLR	51	Continuous	Yes	ELEVATOR HYDRAULIC CYLINDER
A	EVTR	LUVR		46	Continuous	Yes	ELEVATOR VENT LOUVERS
А	EVTR	MISC		1	Continuous	Yes	MISCELLANEOUS ELEVATOR RELATED ELEMENTS
А	EVTR	PANL		255	Continuous	Yes	ELEVATOR OPERATING PANEL
A	EVTR	PLFM		1	Continuous	Yes	ELEVATOR PLATFORM
А	EVTR	SECU	CMRA	212	Continuous	Yes	ELEVATOR SECURITY CAMERA
Α	EVTR	SHFT	-	46	Continuous	Yes	ELEVATOR SHAFT
Α	EVTR	SHRD		5	Continuous	Yes	ELEVATOR SHROUD
А	EVTR	SILL		212	Continuous	Yes	ELEVATOR SILL/THRESHOLD
А	EVTR	SPKR		1	Continuous	Yes	ELEVATOR HANDSFREE SPEAKER
							PHONE
A	EVTR	STIL		5	Continuous	Yes	ELEVATOR STILES
А	FLOR			3	Continuous	Yes	EDGE OF SLAB: AT FLOOR OPENING, OUTLINE OF FLOOR
А	FLOR	ABVE		1	DASHED5	Yes	FLOOR OUTLINE ABOVE
A	FLOR	BEAM	1	212	Continuous	Yes	FLOOR BEAM
A	FLOR	BEAM	BLOW	1	Continuous	Yes	FLOOR BEAM BELOW
A	FLOR	BLOW		5	DASHEDX2	Yes	FLOOR OUTLINE BELOW
А	FLOR	CASE	1	1	Continuous	Yes	CASEWORK (MANUFACTURED
							CABINETS)
A	FLOR	DOCK		5	Continuous	Yes	LOADING DOCK
A	FLOR	DOCK	BLOW	1	DOT2	Yes	LOADING DOCK BELOW
A	FLOR	FENC	ARCH	1	Continuous	Yes	INTERIOR DECORATIVE FENCE
A	FLOR	GRAL		5	Continuous	Yes	GUARDRAILS NOT ATTACHED TO STAIRS
							HANDRAILS NOT ATTACHED TO
^	FLOD			4	Continueuro	Vaa	
A	FLOR	HRAL		1	Continuous	Yes	STAIRS
A A	FLOR FLOR	HRAL HRAL	BLOW	1 5	Continuous Continuous	Yes Yes	STAIRS HANDRAILS BELOW
			BLOW				STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING
A	FLOR FLOR	HRAL OPNG		5	Continuous Continuous	Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts)
A A A	FLOR FLOR FLOR	HRAL OPNG OPNG	ABVE	5 1 1	Continuous Continuous HIDDEN5	Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE
A A A A	FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG		5 1 1 1	Continuous Continuous HIDDEN5 Continuous	Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW
A A A A A	FLOR FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG OVHD	ABVE	5 1 1 1 1 5	Continuous Continuous HIDDEN5 Continuous HIDDEN4	Yes Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW OVERHEAD ITEMS (SHELVES, ETC.)
A A A A	FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG	ABVE	5 1 1 1	Continuous Continuous HIDDEN5 Continuous	Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW OVERHEAD ITEMS (SHELVES, ETC.) OVERHANG OUT-LINE SHOWN ON
A A A A A	FLOR FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG OVHD	ABVE	5 1 1 1 1 5	Continuous Continuous HIDDEN5 Continuous HIDDEN4	Yes Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW OVERHEAD ITEMS (SHELVES, ETC.)
A A A A A A	FLOR FLOR FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG OVHD OVHD	ABVE	5 1 1 1 5 5	Continuous Continuous HIDDEN5 Continuous HIDDEN4 DASHED4	Yes Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW OVERHEAD ITEMS (SHELVES, ETC.) OVERHANG OUT-LINE SHOWN ON FLOOR PLAN
A A A A A A A	FLOR FLOR FLOR FLOR FLOR FLOR FLOR	HRAL OPNG OPNG OPNG OVHD OVHD OVHG PLFM	ABVE BLOW	5 1 1 1 5 5 5 1	Continuous Continuous HIDDEN5 Continuous HIDDEN4 DASHED4 Continuous	Yes Yes Yes Yes Yes Yes Yes	STAIRS HANDRAILS BELOW X REPRESENTING FLOOR OPENING (Excluding Shafts) FLOOR OPENING ABOVE FLOOR OPEN TO BELOW OVERHEAD ITEMS (SHELVES, ETC.) OVERHANG OUT-LINE SHOWN ON FLOOR PLAN PLATFORM



A	FLOR	RAMP		5	Continuous	Yes	RAMP
A	FLOR	RAMP	ABVE	5	HIDDEN-3_TO_3	Yes	RAMP ABOVE
A	FLOR	SCOR	MAJR	3	Continuous	Yes	CONTROL AND/OR EXPANSION JOINTS
A	FLOR	SCOR	MINR	5	Continuous	Yes	TOOLED JOINTS
А	FLOR	SECU		1	Continuous	Yes	SECURITY
А	FLOR	SLAB		3	Continuous	Yes	FLOOR SLAB EDGE
Α	FLOR	SLAB	BLOW	1	Continuous	Yes	FLOOR SLAB EDGE BELOW
А	FLOR	SLAB	BYND	5	Continuous	Yes	FLOOR SLAB EDGE BEYOND (VIEWED FROM OPENING ABOVE)
А	FLOR	SPCL		5	Continuous	Yes	ARCH. SPECIALTIES (TOILET ROOM ACCESS. DISPLAY CASES)
А	FLOR	STRS		1	Continuous	Yes	STAIRS or block insertion layer
Α	FLOR	STRS	ABVE	1	DASHED2	Yes	STAIRS ABOVE
А	FLOR	STRS	BEAM	46	Continuous	Yes	STAIRS BEAM
Α	FLOR	STRS	BLOW	46	DOT2	Yes	STAIRS BELOW
A	FLOR	STRS	GRAL	46	Continuous	Yes	STAIRS GUARDRAIL
							STAIRS HIDDEN (STAIR STRUCTURE
A	FLOR	STRS	HIDN	46	HIDDEN2	Yes	etc.)
A	FLOR	STRS	HRAL	46	Continuous	Yes	STAIRS HANDRAIL
A	FLOR	STRS	LADR	46	Continuous	Yes	LADDER
A	FLOR	STRS	MISC	145,145,145	Continuous	Yes	STAIRS MISCELLANEOUS
A	FLOR	STRS	STRG	46	Continuous	Yes	STAIR STRINGER
A	FLOR	TACT		1	Continuous	Yes	TACTILE STRIP
A	FLOR	TPTN		212	Continuous	Yes	TOILET PARTITIONS
А	FLOR	WDWK		212	Continuous	Yes	WOODWORK (FIELD - BUILT CABINETS & COUNTERS - USUALLY DASH)
А	FURN			1	Continuous	Yes	FURNITURE - DESKS, ETC.
А	FURN	CHAR		1	Continuous	Yes	CHAIR AND OTHER SEATING
А	FURN	CNTR		212	Continuous	Yes	COUNTERS
A	FURN	HEAT		1	Continuous	Yes	HEAT SINK
A	FURN	KIOS		212	Continuous	Yes	INFO KIOSK
							FURNITURE PANELS, STORAGE
A	FURN	MISC		1	Continuous	Yes	COMPONENTS, ETC.
A	FURN	PASM		1	Continuous	Yes	PASSIMETER READER
A	FURN	PLTR		46	Continuous	Yes	PLANTER
A	FURN	TKVM		1	Continuous	Yes	TICKET VENDING MACHINES
A	FURN	TURN		1	Continuous	Yes	TURNSTILES
А	GLAZ			212	Continuous	Yes	WINDOWS, WINDOW WALLS, GLAZED PARTITIONS
A	GLAZ	CURT		212	Continuous	Yes	CURTAIN WALLS
A	GLAZ	DOOR		5	Continuous	Yes	GLASS DOOR, GLASS PANE
A	GLAZ	HDWR		5	Continuous	Yes	GLAZING HARDWARE
А	GLAZ	MULL		212	Continuous	Yes	WINDOW MULLIONS
А	GLAZ	MULL	MISC	1	Continuous	Yes	WINDOW MULLIONS MISCELLANEOUS
Α	GLAZ	PRHT		1	Continuous	Yes	PARTIAL HEIGHT GLAZED SURFACE
А	GLAZ	SILL	EXTR	5	Continuous	Yes	WINDOWS SILL EXTERIOR
А	GLAZ	SILL	INTR	212	Continuous	Yes	WINDOWS SILL INTERIOR
А	GLAZ	SKLT		5	Continuous	Yes	SKYLIGHT OUT-LINE SHOWN ON FLOOR PLAN
A	GRPH	3DEE		1	Continuous	Yes	3D IMAGES
A	GRPH	IMAG		1	Continuous	Yes	GENERAL JPEGS, BMP, ETC.
A	GRPH	IMAG	ADVT	1	Continuous	Yes	GRAPHIC IMAGES i.e. (BILLBOARDS &
A	GRPH	IMAG	RENR	1	Continuous	Yes	ADVERTISEMENTS) RENDERING AND WATERCOLOR
A	GRPH	IMAG	SIGN	1	Continuous	Yes	IMAGES GRAPHIC SIGNAGE (FULL COLOR -
		IWIAG	GIGIN				USING PANTONE COLORS)
A	KPLN			212	Continuous	Yes	
A	KPLN	FURN	TURN	46	Continuous	Yes	TURNSTILES IN KEY PLAN
A	KPLN	MISC		1	Continuous	Yes	KEY PLAN MISCELLANEOUS
A	KPLN	ROOF	LOWR	251	Continuous	Yes	LOW ROOF IN KEY PLAN
А	KPLN	ROOF	MISC	252	Continuous	Yes	ROOF MISCELLANEOUS IN KEY PLAN
	KPLN KPLN	ROOF TEXT WALL	MISC	252 1 1	Continuous Continuous	Yes Yes	ROOF MISCELLANEOUS IN KEY PLAN TEXT IN KEY PLAN MAIN WALLS IN KEY PLAN



•				0		N/	
A	KPLN KPLN	WALL	HIDN MISC	8	HIDDEN4	Yes Yes	HIDDEN WALLS IN KEY PLAN MISCELLANEOUS WALLS IN KEY PLAN
A	PATT	WALL	MISC	46	Continuous Continuous	Yes	TEXTURES
				-			CONCRETE MASONRY UNIT
A	PATT	CMU_		90,90,90	Continuous	Yes	TEXTURES
Α	PATT	STL_		46	Continuous	Yes	PRIMARY STEEL TEXTURES
А	PATT	STL_	MISC	46	Continuous	Yes	MISCELLANEOUS, STEEL, METAL
		_					TEXTURES AREA CROSS HATCHING,
A	PATT	AREA		46	Continuous	Yes	MISCELLANEOUS PATTERNING, POCHE
A	PATT	CLNG		46	Continuous	Yes	CEILING TEXTURES
A	PATT	COLS		46	Continuous	Yes	COLUMN PATTERN
A	PATT	CONC		90,90,90	Continuous	Yes	CONCRETE TEXTURES
A	PATT	FGPN		46	Continuous	Yes	FIBERGLASS TEXTURES PAVINGS, TILE, CARPET PATTERNS,
A	PATT PATT	FLOR FURN		46 46	Continuous Continuous	Yes Yes	MATERIAL PATTERNS FINISH PATTERNS
A	PATT	GROT		46	Continuous	Yes	GROUT FILL TEXTURES
A	PATT	GYBD		40	Continuous	Yes	GYPSUM / DRYWALL TEXTURES
A	PATT	INSU		46	Continuous	Yes	FOAM INSULATION BOARD TEXTURES
A	PATT	INSU	BATT	46	Continuous	Yes	BATTEN INSULATION TEXTURES
A	PATT	MISC	Brtti	46	Continuous	Yes	MISCELLANEOUS TEXTURES
A	PATT	PROT		46	Continuous	Yes	PROTECTION BOARD TEXTURES
А	PATT	ROOF		46	Continuous	Yes	ROOF SURFACE PATTERNS, HATCHING
А	PATT	WALL		46	Continuous	Yes	MATERIAL PATTERNING, WALL INSULATION, HATCHING AND FILL
Α	PATT	WALL	CONC	90.90.90	Continuous	Yes	CONCRETE WALL PATTERNS
Α	PATT	WOOD		90,90,90	Continuous	Yes	WOOD PATTERN
Α	REFN	ALGN	AXIS	113	PHANTOM4	Yes	REFERENCE AXIAL ALIGNMENT
А	REFN	AREA	OTLN	85	Continuous	Yes	REFERENCE AREA OUTLINE FOR AREA CALCULATIONS NOT PRINTED
A	REFN	BLDG	LINE	85	HIDDEN	Yes	REFERENCE BUILDING LINE
A	REFN	CLIN		75	CENTER5	Yes	REFERENCE CENTERLINE
А	REFN	COLS	BUBL	200	Continuous	Yes	REFERENCE COLUMN BUBBLES AND/OR IDENTIFICATION
Α	REFN	DIMS		15	Continuous	Yes	REFERENCE DIMENSIONS
А	REFN	ESCL		85	Continuous	Yes	ANY LINES USED TO CONSTRUCT ESCALATORS
А	REFN	FRME		211	Continuous	Yes	REFERENCE SHEET EDGE AND AVAILABLE DRAWING AREA
А	REFN	GRID		21	CENTER5	Yes	REFERENCE GRID FOR DETAILS AND/OR DRAWING LAYOUT
A	REFN	GUID	HORZ	252	Continuous	Yes	HORIZONTAL CONSTRUCTION LINES
A	REFN	GUID	LINE	151	Continuous	Yes	GENERAL CONSTRUCTION LINES
A	REFN	GUID	VERT	143	Continuous	Yes	VERTICAL CONSTRUCTION LINES
A	REFN	KPLN		201	Continuous	Yes	REFERENCE KEY PLAN
A	REFN	ROOM	51.01/	201	Continuous	Yes	REFERENCE ROOM TAG
A	REFN	NSRT	BLOK	255	Continuous	Yes	FIXED BLOCK INSERTION POINT ANY LINES USE TO CONSTRUCT
A	REFN	STRS		15	Continuous	Yes	STAIRS
Α	REFN	TEXT		15	Continuous	Yes	REFERENCE TEXT
А	REFN	TEXT	ESCL	222	Continuous	Yes	REFERENCE TEXT FOR ESCALATOR DESIGN
А	REFN	TEXT	EVTR	222	Continuous	Yes	REFERENCE TEXT FOR ELEVATORS DESIGN
A	REFN	TEXT	VCIR	15	Continuous	Yes	REFERENCE TEXT FOR STAIR DESIGN
А	REFN	TRAK	DYNA	93	DASHED5	Yes	REFERENCE TRACK DYNAMIC ENVELOPE
A	REFN	VPRT	FRME	1	Continuous	Yes	POLYGON REPRESENTING THE VIEW PORT WINDOW AREA DRAWN IN MODEL SPACE
A	REFN	WPNT		255	Continuous	Yes	GENERAL WORKING POINTS
A	REVS	BUBL	0001	255	Continuous	Yes	REVISION CLOUD AND ARC (change
A	REVS	SYMB	0001	3	Continuous	Yes	number with each revision) REVISION TRIANGLE (change number with each revision)
А	ROOF			4	Continuous	Yes	ROOF OUTLINE, ROOF PERIMETER / EDGE, ROOF GEOMETRY
A	ROOF	ABVE		212	DASHED4	Yes	ROOF ABOVE OUTLINE
A	ROOF	BLOW		46	Continuous	Yes	ROOF BELOW
	-	CNPY	1	51	Continuous	Yes	CANOPY GEOMETRY - MAIN



A ROOF CNPY MISC 1 Continuous Yes CANOPY GEOMETR A ROOF DRAM 46 Continuous Yes ROOFC A ROOF GUTTR 5 Continuous Yes GUTTR AND LE A ROOF GUTTR 3 Continuous Yes GUTTR AND LE A ROOF LEVL 5 Continuous Yes LEVEL CHANCES, PL A ROOF LEVL 5 Continuous Yes LEVEL CHANCES, PL A ROOF MISC 1 Continuous Yes NOSING, GUARD R. A ROOF PPET 1 Continuous Yes NOSING, GUARD R. A ROOF RISC 1 Continuous Yes NOSING, GUARD R. A ROOF STRIS ABVE 46 HODEN N. Yes ROOF STAIR A ROOF STRIS DRAM 46 Continuous Yes SECTIO	DRAIN DUTLINE ID LEADER EADER - BELOW / FROM THE TOP PITCH DIRECTIONS EANTS ROOF TAIR HANDRAIL, ARAPET PET BELOW OOF RIBS IRS ABOVE IRS ABOVE IRS ABOVE IRS DRAIN L CUT BY SECTION I MISCELLANEOUS AND COLUMN TEEL COLUMN SHORETE BEAM SHT FIXTURE IN
A ROOF EDGE 1 Continuous Yes ROOF A ROOF GUTR 5 Continuous Yes GUTTER AND LE. A ROOF GUTR BLOW 446 Continuous Yes HIGH RADE LEV. A ROOF LEVL 5 Continuous Yes LEVEL CHARGES.P A ROOF LOWR 212 Continuous Yes STAIR RISER, ST. A ROOF MISC 1 Continuous Yes NOSING, GUARD R. A ROOF PPET 1 Continuous Yes NOSING, GUARD R. A ROOF RIBS HIDN 46 HIDDEN Yes ROOF PARAP A ROOF STRS DRAN 46 HIDDEN Yes ROOF STAIR A ROOF STRL MISC 46 Continuous Yes SECTION THOUGH A SECT STL_ MISC 46 Continuous	UTLINE ND LEADER ADER - BELOW / FROM THE TOP PITCH DIRECTIONS CANTS ROOF TAIR HANDRAIL, ARAPET PET BELOW OOF RIBS IRS ABOVE IRS DRAIN L CUT BY SECTION 1 MISCELLANEOUS 2 AND COLUMN TEEL COLUMN SHORE TE BEAM SHT FIXTURE IN
A ROOF GUTR E Continuous Yes GUTTER ANLE A ROOF GUTR BLOW 46 Continuous Yes GUTTER ANLE A ROOF HIGH 3 Continuous Yes HIGH ROOF YEW A ROOF LEVL 5 Continuous Yes LEVL CHANGES A ROOF LOWR 212 Continuous Yes LOWR A ROOF MISC 1 Continuous Yes NOSING, GUARD A ROOF PPET BLOW 46 Continuous Yes ROOF STAIR A ROOF RIBS HIDN 46 HIDDEN Yes ROOF STAIR A ROOF STL 51 Continuous Yes SECTION OF STAIR A SECT STL 5 Continuous Yes SECTION OF STAIR A SECT BEAM STL 5 Continuous Yes SECTION O	ID LEADER ADER - BELOW / FROM THE TOP PITCH DIRECTIONS CANTS ROOF TAIR HANDRAIL, SAIL, ROOF FURN. ARAPET PET BELOW OOF RIBS IRS ABOVE IRS DRAIN CUT BY SECTION HISCELLANEOUS S AND COLUMN TEEL COLUMN SHORETE BEAM SHT FIXTURE IN
A ROOF GUTR BLOW 46 Continuous Yes HIGH ROOF VIEW A ROOF LEVL 5 Continuous Yes LEVEL CHANGES PLAND A ROOF LEVL 5 Continuous Yes LEVEL CHANGES PLAND A ROOF LOWR 212 Continuous Yes NOSING, GUADR NADD A ROOF PET 1 Continuous Yes NOSING, GUADR NADD A ROOF PPET 1 Continuous Yes NOSING, GUADR NADD A ROOF STRS HIDN 46 Continuous Yes ROOF PLAT A ROOF STRS ABVE 46 HIDDEN Yes ROOF STAIR A ROOF STRS DRAN 46 Continuous Yes STRUCTURAL STEL A SECT STL_ 61 Continuous Yes SECTION OF CO A SECT STL_ MISC 46	ADER - BELOW / FROM THE TOP PITCH DIRECTIONS CANTS ROOF TAIR HANDRAIL, RAIL, ROOF FURN. ARAPET PET BELOW OOF RIBS RS ABOVE IRS DRAIN CUT BY SECTION 1 MISCELLANEOUS 3 AND COLUMN TEEL COLUMN SHORETE BEAM SHT FIXTURE IN
A ROOF HIGH 3 Continuous Yes HIGH ROOF VERCE A ROOF LEVL 5 Continuous Yes LEVEL CHARGES, P A ROOF LOWR 212 Continuous Yes LEVEL CHARGES, P A ROOF MISC 1 Continuous Yes NOSING, GUARD, R A ROOF PPET 1 Continuous Yes ROOF PARAP A ROOF RIBS HIDN 46 HIDDEN Yes ROOF STAR A ROOF STRS DRAN 46 Continuous Yes ROOF STAR A ROOF STRS DRAN 46 Continuous Yes SECTION FIROUH A SECT STL_ NISC 46 Continuous Yes SECTION OF DIT A SECT BEAM STL_ 5 Continuous Yes SECTION OF CO A SECT CLING LAIT 212	V FROM THE TOP PITCH DIRECTIONS ANTS ROOF TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR HANDRAIL, TAIR THE STATE THE STATE THE TOP THE TOP THE TOP THE TOP THE TOP THE TOP THE TOP THE TOP THE TOP TOP TO TOP TO TOP TO TOP TO TOP TO
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A SECT RIVR 1 Continuous Yes RIVER LINE II	IN SECTION
A SECT SEWR 3 Continuous Yes SEWER IN S	SECTION
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		-	1				SECTION OF TRAINS SURWAYS &
A	SECT	TRAN		5	Continuous	Yes	SECTION OF TRAINS, SUBWAYS & MONORAILS
A	SECT	WALL		4	Continuous	Yes	WALLS CUT BY SECTION
А	SECT	WALL	FGPN	212	Continuous	Yes	FIBER GLASS PANEL AND/OR SYSTEM
A	SECT	WALL	GYPB	1	Continuous	Yes	IN SECTION GYPSUM WALL BOARD IN SECTION
A	SECT	WALL	MISC	212	Continuous	Yes	MISCELLANEOUS WALL SECTION
A	SECT	WALL	RETN	3	Continuous	Yes	RETAINING WALL IN SECTION
А	SECT	WALL	SHFT	3	Continuous	Yes	SHAFT WALL IN SECTION
Α	SECT	WDBL		5	Continuous	Yes	WOOD BLOCKING IN SECTION
Α	SITE	AIRP		3	Continuous	Yes	AIRPORT
А	SITE	ALGN	CLL_	4	PHANTOM4	Yes	CONTRACT LIMIT LINE
Α	SITE	ALGN	PROP	1	DASHDOT4	Yes	PROPERTY LINE
A	SITE	ALGN	ROWL	3	PHANTOM5	Yes	RIGHT OF WAY LINE
A	SITE	BLDG	ABVE	3	DASHEDX2	Yes	BUILDING ABOVE OUTLINE
A	SITE	BOLL		5	Continuous	Yes	SECURITY BOLLARD
A	SITE	CURB FENC		5	Continuous Continuous	Yes Yes	CURBS EXTERIOR FENCE
A	SITE	FENC	ARCH	1	Continuous	Yes	EXTERIOR PENCE
A	SITE	GRID	HZ01	46	Continuous	Yes	PRIMARY X-AXIS COORDINATE GRID
							SECONDARY X-AXIS COORDINATE SIND
A	SITE	GRID	HZ02	5	DOT4	Yes	GRID
A	SITE	GRID	VT01	46	Continuous	Yes	PRIMARY Y-AXIS COORDINATE GRID
А	SITE	GRID	VT02	5	DOT4	Yes	SECONDARY Y-AXIS COORDINATE GRID
А	SITE	JBAR		5	Continuous	Yes	JERSEY BARRIER
A	SITE	LGHT		5	Continuous	Yes	STREET LIGHT
Α	SITE	MISC		46	Continuous	Yes	MISCELLANEOUS SITE FEATURES
Α	SITE	PILE		3	Continuous	Yes	PILES
Α	SITE	SIGN		1	Continuous	Yes	SITE SIGNAGE
Α	SITE	STRE	SBAK	5	HIDDEN-3_TO_3	Yes	STREET SETBACKS
A	SITE	STRE	STRP	46	Continuous	Yes	TRAFFIC STREET STRIPING
A	SITE	SWLK		5	Continuous	Yes	SIDEWALK
A	SITE	TBAK		252	Continuous	Yes	TIEBACKS
A	SITE	TRAF	SLPE	46	DASHED5	Yes	SLOPE
A	SITE	TRAK		5	Continuous	Yes	
A	SITE	TRAK TUNL	CLIN	1 46	CENTER Continuous	Yes Yes	TRACK CENTERLINES TUNNEL
							UNDERGROUND STRUCTURE or
A	SITE	UNGR	STRU	90,90,90	Continuous	Yes	xref/block insertion layer
Α	SITE	UNGR	UTIL	90,90,90	Continuous	Yes	UNDERGROUND UTILITIES or xref/block insertion layer
A	SWAL			51	Continuous	Yes	SLURRY WALL
A	SWAL	TBAK		46	Continuous	Yes	SLURRY WALL TIEBACK
Α	TONE			50,50,50	Continuous	Yes	VARIOUS COLOR TONING (USED FOR PRESENTATION - STAGE 1 ONLY)
Α	TONE	SKY_		197,219,242	Continuous	Yes	SKY ZONE FILL
Α	TONE	AIRP		90,90,90	Continuous	Yes	SHADING OF AIRPORT
Α	TONE	BLDG		191,127,255	Continuous	Yes	BUILDING SECTIONS AND ELEVATIONS
Α	TONE	COLS		175,175,175	Continuous	Yes	COLUMN ENCLOSURE FILL
А	TONE	ELEC		102,204,204	Continuous	Yes	ELECTRICAL, ELECTRONICS, SPACES FILL
А	TONE	GRND		90,90,90	Continuous	Yes	SECTION/ELEVATION/PLAN GROUND PLANE
A	TONE	MECH		102,153,204	Continuous	Yes	MECHANICAL ZONE FILL
A	TONE	OFCE		255,223,127	Continuous	Yes	OFFICE ZONE FILL
Α	TONE	OPNG		240,240,240	Continuous	Yes	OPEN TO BELOW ZONE FILL
Α	TONE	OTLN		165	Continuous	Yes	OUTLINE OF TONE FILL
A	TONE	OTLN	SKY_	61	Continuous	Yes	SKY FILL OUTLINE
А	TONE	OTLN	BLDG	191	Continuous	Yes	BUILDING SECTIONS AND ELEVATIONS OUTLINE
А	TONE	OTLN	COLS	253	Continuous	Yes	COLUMN ENCLOSURE FILL OUTLINE
А	TONE	OTLN	GRND	251	Continuous	Yes	SECTION/ELEVATION/PLAN GROUND PLANE OUTLINE
А	TONE	OTLN	MECH	153	Continuous	Yes	MECHANICAL FILL OUTLINE
А	TONE	OTLN	OFCE	41	Continuous	Yes	OFFICE FILL OUTLINE
A	TONE	OTLN	OPNG	61	Continuous	Yes	OPEN TO BELOW FILL OUTLINE
A	TONE	OTLN	PARK	254	Continuous	Yes	PARKING FILL OUTLINE
A	TONE	OTLN	PUBL	40	Continuous	Yes	
A	TONE	OTLN	RETL	21	Continuous	Yes	
A	TONE TONE	OTLN	RIVR	153	Continuous	Yes Yes	RIVER FILL OUTLINE SHADING OUTLINES
А	IONE	OTLN	SECT	255	Continuous	162	SHADING UUTLINES



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A	TONE	OTLN	SERV	141	Continuous	Yes	SERVICE FILL OUTLINE
A	TONE	OTLN	SWAL	253	Continuous	Yes	SLURRY WALL OUTLINE
Α	TONE	OTLN	VCIR	30	Continuous	Yes	VERTICAL CIRCULATION FILL OUTLINE
A	TONE	PARK		215,215,215	Continuous	Yes	PARKING ZONE FILL
A	TONE	PUBL		153,204,102	Continuous	Yes	PUBLIC ZONE FILL
А	TONE	RETL		255,159,127	Continuous	Yes	RETAIL ZONE FILL
А	TONE	RIVR		102,153,204	Continuous	Yes	RIVER ZONE FILL
А	TONE	SERV		127,223,255	Continuous	Yes	SERVICE ZONE FILL
А	TONE	SITE		175,175,175	Continuous	Yes	
А	TONE	SWAL		145,145,145	Continuous	Yes	SHADING OF SLURRY WALLS
А	TONE	UNAS		145,145,145	Continuous	Yes	UNASSIGNED SPACE
А	TONE	UTIL		215,215,215	Continuous	Yes	UTILITY SPACE FILL (PLUMBING, PUMP ROOMS, ETC.)
А	TONE	VERT		255,204,0	Continuous	Yes	VERTICAL CIRCULATION ZONE FILL
А	TONE	WALL		145,145,145	Continuous	Yes	WALL ZONE FILL
А	WALL			4	Continuous	Yes	FULL HEIGHT WALLS, STAIR AND SHAFT WALLS, WALLS TO STRUCTURE
А	WALL	ABVE		5	DASHEDX2	Yes	WALL ABOVE
А	WALL	BARR		1	Continuous	Yes	WALL BARRIER OR LINER WALL
А	WALL	BLOW		5	DASHED5	Yes	WALL BELOW
А	WALL	BOTH		5	Continuous	Yes	BOOTH WALL
Α	WALL	CASE		212	Continuous	Yes	WALL MOUNTED CASEWORK
А	WALL	CNPY		1	Continuous	Yes	CANOPY WALL
А	WALL	FGPN		5	Continuous	Yes	FIBERGLASS WALL PANEL
А	WALL	FNSH		1	Continuous	Yes	FINISHES, WOODWORK, TRIM
Α	WALL	GYPB		1	Continuous	Yes	GYPSUM WALLBOARD
А	WALL	KWAL	NFIL	46	Continuous	Yes	KALWALL INFILL GRID
А	WALL	KWAL	OTLN	1	Continuous	Yes	KALWALL MAIN PANEL
A	WALL	MISC		1	Continuous	Yes	MISCELLANEOUS WALL
A	WALL	MOVE		4	Continuous	Yes	MOVABLE PARTITIONS
A	WALL	OTLN		4	Continuous	Yes	BUILDING OUTLINES
A	WALL	OTLN	ABVE	3	DASHED2	Yes	OUTLINE OF WALL ABOVE
A	WALL	OTLN	BLOW	1	DASHDOT	Yes	OUTLINE OF WALL BELOW
A	WALL	PRHT		3	Continuous	Yes	PARTIAL HEIGHT WALLS (DON'T APPEAR ON REFLECTED CEILING PLANS)
А	WALL	SHER		3	Continuous	Yes	SHEAR WALL
Α	WALL	SHFT		3	Continuous	Yes	SHAFT WALL
А	WALL	SHFT	OPNG	46	Continuous	Yes	X REPRESENTING SHAFT OPENING - OPENING IN WALL RELATED TO SHAFTS, ETC
А	WALL	STRS		212	Continuous	Yes	WALLS AROUND STAIRS
А	WALL	TPTN		212	Continuous	Yes	TOILET PARTITIONS
A	WALL	TRAK	1	1	Continuous	Yes	WALLS AROUND TRACKS
А	WALL	TRAK	BLOW	46	Continuous	Yes	WALLS AROUND TRACKS BELOW
А	WALL	TRAK	HIDN	50,50,50	HIDDEN	Yes	HIDDEN WALLS AROUND TRACKS
А	WALL	VENT		212	Continuous	Yes	WALL VENTS
А	XREF	OLE_		255	Continuous	Yes	LAYER TO ATTACH OLE LINKED FILES ONTO (i.e. EXCEL, ACCESS OR WORD)
А	XREF	BLDG		46	Continuous	Yes	XREF BUILDING ONTO

1.20.2.2 LANDSCAPE WORK

DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
L	GNRL	CHNG		51	DIVIDE4	Yes	IDENTIFICATION OF UPDATED WORK
L	ANNO	_BUS		5	CONTINUOUS	Yes	BUSES
L	ANNO	_CLL		4	CONTINUOUS	Yes	CONTRACT LIMIT LINE
L	ANNO	_CUT	LINE	46	CONTINUOUS	Yes	CUT LINE
L	ANNO	BREK		5	CONTINUOUS	Yes	BREAK LINE
L	ANNO ANNO	sCARS CLIN		46 46	CONTINUOUS CENTER5	Yes Yes	CARS CENTERLINE
	ANNO	DIMS	GUID	1	DOT8	Yes	DIMENSION GUIDE LINE
L	ANNO	DIMS	0015	1	CONTINUOUS	Yes	DIMENSIONS
L	ANNO	DETL	IDEN	3	CONTINUOUS	Yes	DETAIL SYMBOL
L	ANNO	GDLN		102,204,153	CONTINUOUS	Yes	GUIDELINE
L	ANNO	LGND	DISC	1	CONTINUOUS	Yes	LEGEND DISCLAIMER
1	ANNO	LGND		212	CONTINUOUS	Yes	LEGENDS AND SYMBOLS ASSOCIATED WITH LEGENDS
L	ANNO	MLIN		4	DIVIDE2	Yes	MATCH LINE
	ANNO	NOTE		212	CONTINUOUS	Yes	MISCELLANEOUS NOTES
L	ANNO	PEOP		46	CONTINUOUS	Yes	PEOPLE
L	ANNO	REDL		255,0,0	CONTINUOUS	Yes	REDLINE
L	ANNO	SCUT	AROW	5	CONTINUOUS	Yes	DIRECTIONAL ARROW
1	ANNO	SCUT	GUID	212	DOT8	Yes	SECTION CUT LINE CONNECTING HEAD AND TAIL
L	ANNO	SCUT	SYMB	3	CONTINUOUS	Yes	SECTION CUT SYMBOL
 L	ANNO	SYMB	MISC	3	CONTINUOUS	Yes	MISCELLANEOUS SYMBOLS
L	ANNO	SYMB	NRTH	5	CONTINUOUS	Yes	NORTH ARROW
L	ANNO	SYMB	SCLE	1	CONTINUOUS	Yes	SCALE BAR
L	ANNO	SYMB		3	CONTINUOUS	Yes	SYMBOL BLOCK INSERTION LAYER
L	ANNO	TEXT	_CLL	1	CONTINUOUS	Yes	CONTRACT LIMIT LINE TEXT
L	ANNO	TEXT	DATE	5	CONTINUOUS	Yes	PRESENTATION DATE
L	ANNO	TEXT	LEDR	5	CONTINUOUS	Yes	TEXT LEADER LINE
L L	ANNO ANNO	TEXT	MISC MLIN	5 212	CONTINUOUS	Yes	SECONDARY TEXT
	ANNO	TEXT TEXT	PLIN	1	CONTINUOUS CONTINUOUS	Yes Yes	MATCH LINE TEXT PROPERTY LINE TEXT
L	ANNO	TEXT	ROWL	212	CONTINUOUS	Yes	RIGHT OF WAY TEXT
 L	ANNO	TEXT	TITL	3	CONTINUOUS	Yes	TITLE TEXT
L	ANNO	TEXT		212	CONTINUOUS	Yes	TEXT
L	ANNO	TEXT	STRE	1	CONTINUOUS	Yes	STREET NAME TEXT
L	ANNO	TRAN		46	CONTINUOUS	Yes	TRAINS, SUBWAYS & MONORAILS
L	ANNO	TRUK		46	CONTINUOUS	Yes	TRUCKS DRAWING TITLE ON PRESENTATION
L	ANNO	TTLB	PRES	5	CONTINUOUS	Yes	BORDER
L	ANNO	VPRT		200	CONTINUOUS	No	VIEW PORT CREATION LAYER
L	ANNO	VPRT	TONE	255,255,255	CONTINUOUS	Yes	VIEW PORT SHADE (FOR PRESENTATION)
L	AREA	IDEN		40	CONTINUOUS	No	AREA CALCULATION
L	AREA	OTLN		40	CONTINUOUS	No	AREA CALCULATION BOUNDARY LINES
L .	AREA	PATT	HTCH	41	CONTINUOUS	No	
L	AREA	PLNT		40	CONTINUOUS	No	PLANT NAME AND QUANTITY
L	CHRT	BDR		3	CONTINUOUS	Yes	CHART BORDER
L	CHRT	LINE		1	CONTINUOUS	Yes	CHART LINE
L	CHRT	TEXT		212	CONTINUOUS	Yes	CHART TEXT
L	CHRT	TITL		212	CONTINUOUS	Yes	CHART TITLE
				105 105 105		V	ELEVATION or SECTION OBJECTS IN THE
L	ELEV ELEV	BYND TREE	BYND	135,135,135 135,135,135	CONTINUOUS CONTINUOUS	Yes Yes	DISTANCE TREES IN THE DISTANCE (BACKGROUND)
		INEE	שאדם	130,130,130	CONTINUOUS	162	ELVATION or SECTION OBJECTS
L	ELEV	HIDN		1	HIDDEN2	Yes	OBSCURED BY FORGROUND OBJECTS
L	ELEV	SHRB	BYND	135,135,135	CONTINUOUS	Yes	SHRUB THE DISTANCE (BACKGROUND)
L	GRAD	INDX		212	CONTINUOUS	Yes	MAJOR CONTOUR LINES
L	GRAD			46	CONTINUOUS	Yes	MINOR CONTOUR LINES
L	GRAD	TEXT		212	CONTINUOUS	Yes	MAJOR CONTOUR LINE LABEL TEXT
	KPLN	BDR		3	CONTINUOUS	Yes	KEY PLAN BORDER
L	KPLN	HTCH		46	CONTINUOUS	Yes	KEY PLAN HATCH
L	KPLN	TEXT		1	CONTINUOUS	Yes	KEY PLAN TEXT
L	PLAN	_HDR		5	CONTINUOUS	Yes	HEADER



-							
L	PLAN	ABTM		3	CONTINUOUS	Yes	BRIDGE ABUTMENT
L	PLAN	ARCH	MISC	175,175,175	CONTINUOUS	Yes	ARCHITECTURAL MISCELLANEOUS
L	PLAN	BLDG	ABVE	1	DASHED	Yes	BUILDING ABOVE OUTLINE
L	PLAN	BLDG	HTCH	46	CONTINUOUS	Yes	BUILDING HATCH
L	PLAN	BLDG		4	CONTINUOUS	Yes	BUILDING OUTLINE
L	PLAN	BOLL		212	CONTINUOUS	Yes	BOLLARD
L	PLAN	BRDG		46	CONTINUOUS	Yes	BRIDGE
1	PLAN	BULB	НТСН	15	CONTINUOUS	Yes	BULB FILL
1	PLAN	BULB		5	CONTINUOUS	Yes	AREA TO RECEIVE BULB PLANTING
1	PLAN	CNPY		46	DASHED2	Yes	CANOPY
	PLAN	COLS		46	CONTINUOUS	Yes	COLUMN
	PLAN	CONC	ACNT	17	CONTINUOUS	Yes	CONCRETE ACCENT BAND
	PLAN	CONC	HTCH	135,135,135	CONTINUOUS	Yes	CONCRETE FILL
L	PLAN	CONC	JNT	1	CONTINUOUS	Yes	EXPANSION JOINT
L	PLAN	CONC	SCLN	1	CONTINUOUS	Yes	CONCRETE SCORELINE
L	PLAN	CONC	SCLIN	5	CONTINUOUS	Yes	AREA TO RECEIVE CONCRETE
L			DAOK				
L	PLAN	CURB	BACK	5	CONTINUOUS	Yes	BACK OF CURB
L	PLAN	CURB	FACE	212	CONTINUOUS	Yes	
L	PLAN	CIVL	WQFT	175,175,175	CONTINUOUS	Yes	WATER QUALITY FILTRATION TRENCH
L	PLAN	EROS	HTCH	5	CONTINUOUS	Yes	EROSION CONTROL MAT FILL
	PLAN	EROS		212	CONTINUOUS	Yes	AREA TO RECEIVE EROSION CONTROL MAT
L	PLAN	FENC	CLF	212	FENCE	Yes	CHAIN LINK FENCE
L			PIC				
L	PLAN PLAN	FENC FURN	_PIC	212	FENCE	Yes	
L			UTOU		CONTINUOUS	Yes	SITE FURNITURE
-	PLAN	GMLH	HTCH	5	CONTINUOUS	Yes	GRAVEL MULCH FILL
L	PLAN	GMLH		1	CONTINUOUS	Yes	AREA TO RECEIVE GRAVEL MULCH
L	PLAN	JBAR		135,135,135	CONTINUOUS	Yes	JERSEY BARRIER
L	PLAN	LGHT	LDSP	1	CONTINUOUS	Yes	LANDSCAPE LIGHT
L	PLAN	LGHT		1	CONTINUOUS	Yes	STREET LIGHT
L	PLAN	LINE	_HVY	4	CONTINUOUS	Yes	HEAVY LINEWORK
L	PLAN	LINE	_MED	3	CONTINUOUS	Yes	MEDIUM LINEWORK
L	PLAN	LINE	FINE	1	CONTINUOUS	Yes	FINE LINEWORK
L	PLAN	LINE	XFIN	46	CONTINUOUS	Yes	EXTRA FINE LINEWORK
L	PLAN	LMOD		1	CONTINUOUS	Yes	LIMIT OF DISTURBANCE
L	PLAN	MISC	ELEC	175,175,175	CONTINUOUS	Yes	MISCELLANEOUS ELECTRICAL
L	PLAN	MISC	OTLN	31	CONTINUOUS	Yes	MISCELLANEOUS HATCH OUTLINE
L	PLAN	MISC		1	CONTINUOUS	Yes	MISCELLANEOUS SITE FEATURES
L	PLAN	PILE		5	CONTINUOUS	Yes	PILES
L	PLAN	PRNL	HTCH	1	CONTINUOUS	Yes	PERENNIAL FILL
L	PLAN	PRNL		5	CONTINUOUS	Yes	AREA TO RECEIVE PERENNIALS
L	PLAN	PROP		1	DASHDOT4	Yes	PROPERTY LINE
L	PLAN	RRIP		46	CONTINUOUS	Yes	RIP RAP FILL
L	PLAN	SCRN	HTCH	1	CONTINUOUS	Yes	STONE SCREENINGS FILL
L	PLAN	SCRN	-	212	CONTINUOUS	Yes	AREA TO RECEIVE STONE SCREENINGS
L	PLAN	SEED	НТСН	212	CONTINUOUS	Yes	SEED FILL
L	PLAN	SEED		31	CONTINUOUS	Yes	AREA TO RECEIVE SEED
L	PLAN	SHRB	HTCH	1	CONTINUOUS	Yes	SHRUB FILL
	PLAN	SHRB		212	CONTINUOUS	Yes	AREA TO RECEIVE SHRUBS
L	PLAN	SLEV		5	CONTINUOUS	Yes	IRRIGATION SLEEVE
L	PLAN	SLEV		1	DASHDOT	Yes	SILT FENCE
L	PLAN	SPAD	EDGE	90,90,90	DASHDOT DASHED5		SPADE CUT EDGE
L	PLAN			90,90,90		Yes	
-		SPOT	ELEV	•	CONTINUOUS	Yes	
L	PLAN	SSPL	HTCH	175,175,175	CONTINUOUS	Yes	SALT SPLASH FILL
L	PLAN	SSPL	TYPA	46	CONTINUOUS	Yes	EWR TYPE A SALT SPLASH
L	PLAN	SSPL	TYPB	46	CONTINUOUS	Yes	EWR TYPE B SALT SPLASH
L	PLAN	SSPL	JFK	1	CONTINUOUS	Yes	JFK SALT SPLASH
L	PLAN	SSPL	LGA	1	CONTINUOUS	Yes	LGA SALT SPLASH
L	PLAN	SSPL	SWF	1	CONTINUOUS	Yes	SWF SALT SPLASH



	DLAN	0)4/1-1/		475 475 475		N/s s	
	PLAN PLAN	SWLK TEXT		175,175,175 212	CONTINUOUS CONTINUOUS	Yes Yes	SIDEWALK PLAN TEXT
L	PLAN	TRAF	GR	175,175,175	CONTINUOUS	Yes	GUARD RAIL (W-BEAM OR BOX BEAM)
L	PLAN	TRAF	PRK	90,90,90	CONTINUOUS	Yes	PARKING STALLS
L	PLAN	TRAF	HCAP	90,90,90	CONTINUOUS	Yes	HANDICAP PARKING
L	PLAN	TRAF	MISC	175,175,175	CONTINUOUS	Yes	MISCELLAENOUS TRAFFIC ITEMS
L	PLAN	TRAF	SIGN	175,175,175	CONTINUOUS	Yes	TRAFFIC SIGN
L	PLAN	TRAF	WHST	175,175,175	CONTINUOUS	Yes	WHEEL STOPS
L	PLAN	TRAF		175,175,175	CONTINUOUS	Yes	GENERAL PAVEMENT MARKINGS
L	PLAN	TRAK		46	CONTINUOUS	Yes	TRACKS
L	PLAN	TREE	_ORN	5	CONTINUOUS	Yes	ORNAMENTAL TREE
	PLAN	TREE	EVER	1	CONTINUOUS	Yes	EVERGREEN TREE
	PLAN PLAN	TREE TREE	CNPY PBOX	46	CONTINUOUS CONTINUOUS	Yes Yes	CANOPY TREE TREE PROTECTION BOX
<u> </u>	PLAN	WALL	RETN	46 212	CONTINUOUS	Yes	RETAINING WALL
	PLAN	WALL	EDGE	5	DASHEDX2	Yes	WATER EDGE
	PLAN	WETL	GS	1	CONTINUOUS	Yes	GOOSE STAKE FLAG
L	PLAN	WETL	MHW	1	DASHED5	Yes	MEAN HIGH WATER
L	PLAN	WETL	MLW	1	HIDDENX2	Yes	MEAN LOW WATER
L	PLAN	WETL	WFF	212	CONTINUOUS	Yes	WATER FOWL FENCING
L	REVS	BUBL	_	3	CONTINUOUS	Yes	REVISIONS BUBBLE
L	REVS	SYMB		3	CONTINUOUS	Yes	REVISIONS TEXT
L	SCHD	PLNT		255	CONTINUOUS	Yes	PLANT SCHEDULE INSERTION LAYER (AutoCAD Table)
L	SCHD	PLNT	_BDR	4	CONTINUOUS	Yes	PLANT SCHEDULE BORDER
L	SCHD	PLNT	LINE	212	CONTINUOUS	Yes	PLANT SCHEDULE LINES
L	SCHD	PLNT	TEXT	1	CONTINUOUS	Yes	PLANT SCHEDULE TEXT
	SCHD	PLNT	TITL	3	CONTINUOUS	Yes	PLANT SCHEDULE TITLE
L	SECT	CARS	UTOU	5	CONTINUOUS	Yes	VEHICLES
L	SECT	CONC	HTCH	1	CONTINUOUS	Yes	CONCRETE FILL
	SECT SECT	CONC DGAB		5 90,90,90	CONTINUOUS CONTINUOUS	Yes Yes	AREA TO RECEIVE CONCRETE DGABC
	SECT	EROS		212	CONTINUOUS	Yes	EROSION CONTROL MAT
1	SECT	ERTH	HTCH	135,135,135	CONTINUOUS	Yes	EARTH FILL
	SECT	ERTH	mon	255,191,0	CONTINUOUS	Yes	AREA TO RECEIVE EARTH
L	SECT	GC		5	CONTINUOUS	Yes	GROUND COVER
L	SECT	GRAV	MLCH	46	CONTINUOUS	Yes	GRAVEL MULCH
L	SECT	LINE	FINE	1	CONTINUOUS	Yes	FINE LINEWORK
L	SECT	LINE	_MED	3	CONTINUOUS	Yes	MEDIUM LINEWORK
L	SECT	LINE	XFIN	46	CONTINUOUS	Yes	EXTRA FINE LINEWORK
L	SECT	LINE	_HVY	4	CONTINUOUS	Yes	HEAVY LINEWORK
L	SECT	MISC	HTCH	175,175,175	CONTINUOUS	Yes	MISCELLANEOUS HATCH
L	SECT	MISC	OTLN	255,191,127	CONTINUOUS	Yes	MISCELLANEOUS OUTLINE
L	SECT	PEOP		5	CONTINUOUS	Yes	PEOPLE
	SECT	PRNL		1	CONTINUOUS	Yes	PERENNIAL
 L	SECT	PROF	GL	5	DOT2	Yes	PROFILE GUIDELINES
	SECT	PROF	GL	3	CONTINUOUS	Yes	PROPOSED PROFILE
L	SECT	PROF	TEXT	212	CONTINUOUS	Yes	PROFILE TEXT
L	SECT	SAND	HTCH	1	CONTINUOUS	Yes	SAND SETTING BED
L	SECT	SHRB		1	CONTINUOUS	Yes	SHRUB
L	SECT	TEXT		212	CONTINUOUS	Yes	SECTION TEXT
L	SECT	TREE	BYND	135,135,135	CONTINUOUS	Yes	TREE IN BACKGROUND
L	SECT	TREE	EVRG	5	CONTINUOUS	Yes	EVERGREEN TREE
L	SECT	TREE	_ORN	46	CONTINUOUS	Yes	ORNAMENTAL TREE
L	SECT	TREE		1	CONTINUOUS	Yes	CANOPY TREE
L	SITE	BLDG	ABVE	212	DASHED	Yes	BUILDING ABOVE OUTLINE
L	SITE	BLDG	HTCH	135,135,135	CONTINUOUS	Yes	BUILDING FILL
L	SITE	BLDG	SHDW	175,175,175	CONTINUOUS	Yes	BUILDING SHADOW
	SITE	BLDG	1017	4	CONTINUOUS	Yes	BUILDING OUTLINE
	SITE	CONC	ACNT	127,63,63	CONTINUOUS	Yes	CONCRETE ACCENT BAND
	SITE	CONC	HTCH	135,135,135	CONTINUOUS	Yes	CONCRETE FILL
L	SITE	CONC _HDR		5	CONTINUOUS CONTINUOUS	Yes Yes	
1	SITE	_HDR LAWN	HTCH	135,135,135 178,204,102	CONTINUOUS	Yes	HEADER (FLUSH CURB) LAWN FILL
L			псп	255,191,127	CONTINUOUS	Yes	AREA TO RECEIVE LAWN
L			1	200,101,121	CONTINUOUS	Yes	
L	SITE	LAWN	НТСН	223 255 127			
L L L	SITE SITE	LDSP	HTCH	223,255,127 46			LANDSCAPE FILL
L L	SITE SITE SITE	LDSP LDSP		46	CONTINUOUS	Yes	LANDSCAPED AREA
L L L	SITE SITE SITE SITE	LDSP LDSP MISC	НТСН		CONTINUOUS CONTINUOUS	Yes Yes	LANDSCAPED AREA MISCELLANEOUS HATCH
L L L L	SITE SITE SITE	LDSP LDSP		46 90,90,90	CONTINUOUS	Yes	LANDSCAPED AREA



L	SITE	SHRB	HTCH	1	CONTINUOUS	Yes	SHRUB FILL
L	SITE	SHRB	SHDW	175,175,175	CONTINUOUS	Yes	SHRUB SHADOW
L	SITE	SHRB		212	CONTINUOUS	Yes	AREA TO RECEIVE SHRUBS
L	SITE	SSPL	HTCH	90,90,90	CONTINUOUS	Yes	SALT SPLASH FILL
L	SITE	SSPL		1	CONTINUOUS	Yes	AREA TO RECEIVE SALT SPLASH
L	SITE	TREE	SHDW	175,175,175	CONTINUOUS	Yes	TREE SHADOW
L	SITE	TREE	CNPY	1	CONTINUOUS	Yes	CANOPY TREE
L	SITE	TREE	EVER	1	CONTINUOUS	Yes	EVERGREEN TREE
L	SITE	TREE	_ORN	5	CONTINUOUS	Yes	ORNAMENTAL TREE
L	SITE	WATR	_HVY	127,255,255	CONTINUOUS	Yes	HEAVY WATER FILL
L	SITE	WATR	LGHT	127,255,255	CONTINUOUS	Yes	LIGHT WATER FILL
L	SITE	WATR	_MED	102,204,204	CONTINUOUS	Yes	MEDIUM WATER FILL
L	SITE	WETL	CHAN	102,178,204	CONTINUOUS	Yes	CHANNEL
L	SITE	WETL	_IVA	102,204,0	CONTINUOUS	Yes	IVA WETLAND PLANTS
L	SITE	WETL	SPAR	255,223,127	CONTINUOUS	Yes	SPARTINA
L	XREF	_BDR		7	CONTINUOUS	Yes	XREF BORDER AND ATTRIBUTES
L	XREF	CLIP		7	CONTINUOUS	Yes	XCLIP
L	XREF	CURB		7	CONTINUOUS	Yes	XREF CURBS
L	XREF	_DTL		7	CONTINUOUS	Yes	XREF DETAILS
L	XREF	SCRN		7	CONTINUOUS	Yes	XREF OF SCREENED BACKGROUND
L	XREF	NOTE		7	CONTINUOUS	Yes	XREF SPECS AND NOTES
L	XREF	SECT		7	CONTINUOUS	Yes	XREF SECTIONS
L	XREF	SITE		7	CONTINUOUS	Yes	XREF SITE PLAN

1.20.3 LINETYPES

Name	Description	Example
CENTER	Centerline (1x)	
CENTER5	Centerline (0.20x)	
Continuous	Continuous	
DASHDOT	Dashdot (1x)	· · · ·
DASHDOT4	Dashdot (0.25x)	
DASHED	Dashed (1x)	
DASHED2	Dashed (0.50x)	
DASHED4	Dashed (0.25x)	
DASHED5	Dashed (0.20x)	
DASHEDX2	Dashed (2x)	
DIVIDE2	Divide (0.50x)	
DIVIDE4	Divide (0.25x)	

Name	Description	Example
DOT2	Dot (0.50x)	
DOT4	Dot (0.25x)	
DOT5	Dot (0.20x)	
DOT8	Dot (0.125x)	
FENCE	Fence (1x)	<u> </u>
HIDDEN	Hidden (1x)	
HIDDEN2	Hidden (0.50x)	
HIDDEN4	Hidden (0.25x)	
HIDDEN5	Hidden (0.20x)	
HIDDEN- 3_TO_3	Hidden (1.5x)	
HIDDENX2	Hidden (2x)	
PHANTOM4	Phantom (0.25x)	
PHANTOM5	Phantom (0.20x)	

1.20.4 SYMBOLS

1.20.4.1 DRAFTING CONVENTIONS

Symbol	Block Name	Layer Name	Description
	22x34PSG.dwg	Varies	22 x 34 Layout Guide
	ABBREV_1.dwg	Varies	List of Abbreviations and Symbols
	ARROW.dwg	Varies	Arrow Head
	BREAK.dwg	Varies	Break Line
¢ xxxxx	CLINE.dwg	Varies	Center Line
	COLNO.dwg	Varies	Column Number for Contract Drawings
	COLNOE.dwg	Varies	Column Number for Existing Columns
	COLNOP.dwg	Varies	Column Number for Presentation Drawings
Baccol List	DETNO2.dwg	Varies	Contract Drawing Label – No Scale Bar
	DETNO3.dwg	Varies	Presentation Drawing Label
@	DETNO.dwg	Varies	Contract Drawing Label
8° 8 ¹¹¹	DETNODBL.dwg	Varies	Double Contract Drawing Label
۵۰۰۰ <u>م</u>	DETNO-SM.dwg	Varies	Contract Drawing Label – Condensed
	DIMGUIDE.dwg	Varies	Guideline Used with Dimensions for Contract Drawings
	DOORNO.dwg	Varies	Door Number
~	EXIT-1WAYDIR.dwg	Varies	Directional Exit Sign
+@+	EXIT-2WAYDIR.dwg	Varies	Multi-Directional Exit Sign
	EXIT.dwg	Varies	Exit Sign
~	EXIT-DBL-1WAYDIR.dwg	Varies	Double-Sided Directional Exit Sign

•-®-•	EXIT-DBL-2WAYDIR.dwg	Varies	Double-Sided Multi-Directional Exit Sign
	EXIT-DBL.dwg	Varies	Double-Sided Exit Sign
2888	INSUL.dwg	Varies	Insulation
4 DET# 22	INT-ELEV.dwg	Varies	Interior Elevation
	LEVELINE.dwg	Varies	Level Line
A	LOCALSEC.dwg	Varies	Presentation Section Mark
	OUTLET.dwg	Varies	Electric Outlet
	PARTTYPE.dwg	Varies	Partition/Wall Type
	RETURN.dwg	Varies	Mechanical Return Duct Symbol
	REV-NO.dwg	Varies	Revision Tag
XXXX	RM-NO.dwg	Varies	Room Number
$\langle S \rangle$	SPEAKER.dwg	Varies	Speaker
	SPNKHD.dwg	Varies	Sprinkler Head
	SUPPLY.dwg	Varies	Mechanical Supply Duct
# SHT#	TARG1.dwg	Varies	Detail/Section/Elevation Label
	TARGELEV.dwg	Varies	Elevation Symbol
	TARGSEC.dwg	Varies	Complete Section Symbol
<u>^</u>	TARGSECHEAD.dwg	Varies	Section Head Symbol
	TARGSECTAIL.dwg	Varies	Section Tail Symbol
	W-ARROW.dwg	Varies	Presentation Arrow
	WIN-NO.dwg	Varies	Window Type

20.4.2	2D PEOPLE			
	Symbol	Block Name	Layer Name	Description
		MAN01.dwg	Varies	Man Standing
		MAN02.dwg	Varies	Man Walking
		MAN03.dwg	Varies	Man Sitting
		MAN04.dwg	Varies	Man Standing – Back View
		MAN05.dwg	Varies	Man Standing – Side View
	Ŵ	MAN06.dwg	Varies	Man Walking 2
		MAN07.dwg	Varies	Man Standing 2
		MAN08.dwg	Varies	Man Outline
		PEOPLE01.dwg	Varies	Man and Woman Walking
		PEOPLE02.dwg	Varies	Man and Woman Walking 2
	Ĥ	PEOPLE03.dwg	Varies	Two Women Walking

	PEOPLE04.dwg	Varies	Man and Woman Standing
	PEOPLE05.dwg	Varies	Father and Child
	PEOPLE06.dwg	Varies	Mother and Daughter
	PEOPLE07 dwg	Varies	Two Men Standing
	PEOPLE08.dwg	Varies	Two Men Side View
	PEOPLE09.dwg	Varies	Outline – Three People
as wet	PEOPLE10.dwg	Varies	People Waiting to Get on Bus
A A A A A A A A A A A A A A A A A A A	WOMAN01.dwg	Varies	Woman Telling Time
	WOMAN02.dwg	Varies	Woman Walking
	WOMAN03.dwg	Varies	Woman Walking 2
RA M	WOMAN04.dwg	Varies	Woman Standing
	WOMAN05.dwg	Varies	Woman Lying Down

WOMAN06.dwg	Varies	Woman Outline 1
WOMAN07.dwg	Varies	Woman Outline 2

1.20.4.3 2D VEHICLES

Symbol	Block Name	Layer Name	Description
	02EBUS01.dwg	Varies	School Bus
	02EBUS02.dwg	Varies	City Bus
	02ECAR01.dwg	Varies	Hatchback Car
	02ECAR02.dwg	Varies	Sedan Car
	02ECAR04.dwg	Varies	Classic Car
	02ECAR06.dwg	Varies	Flatbed Pickup Truck
	02ECAR08.dwg	Varies	Porsche
A DEL	02ECAR09.dwg	Varies	Porsche with Spoiler
	02ECAR10.dwg	Varies	Lotus Espirit
	02ECAR11.dwg	Varies	Sports Car
	02ECAR12.dwg	Varies	Car Sedan

	02ECAR14.dwg	Varies	Old Car
	02ECAR19.dwg	Varies	Lamborghini
	02ECAR21.dwg	Varies	Eurovan
á Ting	bus1.dwg	Varies	Minibus
	bus03-cross-country-bus.dwg	Varies	Cross-Country Bus
	BUS-2.DWG	Varies	City Bus 3
	BUS.DWG	Varies	City Bus 2
	BUS-F.dwg	Varies	Bus – Front View
	BUS-pl.dwg	Varies	Bus and Taxi – Top View
	car03-mercedes-benz.dwg	Varies	Mercedes-Benz – Side View
	car05-station-wagon.dwg	Varies	Station Wagon
	car07-vette.dwg	Varies	Chevrolet Corvette
	car13-police-car.dwg	Varies	Police Cruiser
	car20-bmw3251.dwg	Varies	BMW 325i

	car22-sedan.dwg	Varies	Midsize Sedan
	CARB.DWG	Varies	Car – Front View
	CAREL.DWG	Varies	Sports Car – Side View
	CORSAIR2.DWG	Varies	Corsair Jet
	mercedes-front.dwg	Varies	Mercedes-Benz – Front View
a	minibus.dwg	Varies	Minibus – Multiple Views
	MOTORCY.dwg	Varies	Motorcycle
	PTRUCK-2.DWG	Varies	Pickup Truck with Plexiglas Cover
	TAXI-F.dwg	Varies	Taxi
	TRUCKPL.dwg	Varies	Truck – Top View
	volkswagen.dwg	Varies	Volkswagen Beetle

1.20.4.4 3D SITE AMENITIES

Symbol	Block Name	Layer Name	Description
	3DBENC1.dwg	Varies	3D Bench 1
A	3DBENC2.dwg	Varies	3D Bench 2
	3DBENC3.dwg	Varies	3D Bench 3

	3DBENC4.dwg	Varies	3D Bench 4
	3DDECI1.dwg	Varies	3D Deciduous Tree 1
A CONTRACTOR	3DDECI2.dwg	Varies	3D Deciduous Tree 2
X	3DDECI3.dwg	Varies	3D Deciduous Tree 3
-	3DDECI4.dwg	Varies	3D Deciduous Tree 4
	3DEVERG2.dwg	Varies	3D Evergreen Tree 1
	3DEVERG.dwg	Varies	3D Evergreen Tree 2
	lamppost.dwg	Varies	Lamppost
A Contraction of the second se	SHRUB-1.dwg	Varies	Shrub 1
	SHRUB-2.dwg	Varies	Shrub 2
- Alter	SHRUB-3.dwg	Varies	Shrub 3
	STLIGH-1.dwg	Varies	Street Light
-	TREE-1.dwg	Varies	Tree 1
	TREE-1A.dwg	Varies	Tree 1a

TREE-3.dwg	Varies	Tree 3
TREE-4.dwg	Varies	Tree 4
TREE-5.dwg	Varies	Tree 5
TREE-6.dwg	Varies	Tree 6
TREESC-1.dwg	Varies	Tree 7

1.20.4.5 3D VEHICLES

Symbol	Block Name	Layer Name	Description
and a so	3DTRCK2.dwg	Varies	3D Truck
Sea Sea	3DTRCK3.dwg	Varies	3D Truck 2
	3DTRCK4.dwg	Varies	3D Truck 3
100 miles	3DTRCK5.dwg	Varies	3D Truck 4
	3DTRCK.dwg	Varies	3D Truck 5
·	bus.dwg	Varies	Bus
	ferry-boat.dwg	Varies	Ferry Boat

1.20.4.6 FIXTURES

Symbol Block Name	Layer Name	Description	
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- 20. 20. 20.	LAV4-frt.dwg	A-EQPM-FIXT	Four-Sink Lavatory – Front View
6666	LAV4-top.dwg	A-EQPM-FIXT	Four-Sink Lavatory – Top View
	LAV-frt.dwg	A-EQPM-FIXT	Lavatory – Front View
	LAV-sid.dwg	A-EQPM-FIXT	Lavatory – Side View
- B	LAV-TOP.dwg	A-EQPM-FIXT	Lavatory – Top View
/ /	MIRR1.dwg	Varies	Horizontal Mirror
1ª - 1ª	MIRR2.dwg	Varies	Vertical Mirror
	NAP-FRT.dwg	Varies	Front Elevation of Napkin Dispenser (Female)
	NURS-FRT.dwg	Varies	Nursing Station – Front View
<u> </u>	NURS-TOP.dwg	Varies	Nursing Station – Top View
	TOIL1-frt.dwg	A-EQPM-FIXT	Toilet – Front View
	TOIL1-sid.dwg	A-EQPM-FIXT	Toilet – Side View
	TOIL1-top.dwg	A-EQPM-FIXT	Toilet – Top View
	TOIL2-frt.dwg	A-EQPM-FIXT	Toilet 2 – Front View

	TOIL2-sid.dwg	A-EQPM-FIXT	Toilet 2 – Side View
з Т	TOIL2-top.dwg	A-EQPM-FIXT	Toilet 2 – Top View
	TOWEL.dwg	Varies	Towel Dispenser
Ţ	URI-frt.dwg	A-EQPM-FIXT	Urinal – Front View
<u> </u>	URI-sid.dwg	A-EQPM-FIXT	Urinal – Side View
	URI-top.dwg	A-EQPM-FIXT	Urinal – Top View

1.20.4.7 MATERIAL CONVENTIONS

Symbol	Block Name	Layer Name	Description
1888/1892/09/00/00/00/00/00/00/00/00/00/00/00/00/	CARPET.dwg	A-FLOR-PATT	Carpet
	CEILING.dwg	Varies	Ceiling
10:01	CMU04.dwg	Varies	4-Inch Glazed Brick Masonry
	CMU06.dwg	Varies	6-Inch Glazed Brick Masonry
	CMU08.dwg	Varies	8-Inch Glazed Brick Masonry
	CMU10.dwg	Varies	10-Inch Glazed Brick Masonry
E E E E E E E E E E E E E E E E E E E	COARSE.dwg	Varies	Coarse, Pourus Fill
	CONC01.dwg	Varies	Concrete

	CONC02.dwg	Varies	4-Inch Concrete
	DECKTOP2.dwg	Varies	Metal Deck and Concrete Topping Longitudinal Cross-Section
	DECKTOP.dwg	Varies	Metal Deck and Concrete Topping Cross-Section
	EARTH.dwg	Varies	Earth
	FINE.dwg	Varies	Fine, Porous Fill
	GLAZE-B.dwg	Varies	Glazed Brick Masonry
	GYPBD.dwg	Varies	Gypsum Board
	H-REIN.dwg	Varies	Horizontal Concrete Reinforcement
7888	INSUL.dwg	Varies	BATT Insulation
	MTLDECK.dwg	Varies	Metal Deck Cross Section
	PARTICLE.dwg	Varies	Particleboard
	PLASTER.dwg	Varies	Lath and Plaster
	PLYWOOD1.dwg	Varies	Millwork Plywood
	PLYWOOD2.dwg	Varies	Plywood

	PRECONC.dwg	Varies	Pre-Cast Concrete
	RESIL.dwg	Varies	Resilient Flooring
	RKTMP.dwg	Varies	???
	STONE.dwg	Varies	Cut Stone
	TERRAZZO.dwg	Varies	Terrazzo
\$\$\$\$\$\$\$	TILE.dwg	Varies	Ceramic Tile
	WDBLOCK.dwg	Varies	Wood Blocking
	WDSHIM.dwg	Varies	Wood Shim
	WOOD.dwg	Varies	Wood

1.20.5 CONTENT PREFERENCES

The following represents examples of the file structure and naming conventions used by the Architectural Unit.

Use this template to begin the file structure for your projects on the server. It does not include every instance of every drawing type, but it provides for the drawings types most commonly used in the Architectural/Landscape Unit. The file structure and or naming should not conflict with the current CAD Standards.

1.20.6 MODEL FOLDER FILE TYPES

I	MODEL FILETYPE
AN01 = COORDINATE GRID	LP06 = LANDSCAPE ENLARGED PLANS
AN02 = GENERAL	MIS01 = SITE
AN03 = SCHEDULES	MIS02 = COLUMN GRIDS
AN04 = REFERENCE	MIS03 = EXISTING CONDITIONS
DAT01 = MICROSOFT OFFICE DOCUMENTS	MIS04 = MECHANICAL (use for Schemes, Presentations & Stage I only)
DTL00 = ENLARGED PLANS	MIS05 = ELECTRICAL (use for Schemes, Presentations & Stage I)
DTL01 = EXTERIOR WALL DETAILS	MIS06 = OTHER AGENCY (NYCT, NYSDOT, LMDC, NJT, ETC)
DTL02 = INTERIOR WALLS DETAILS	MIS07 = CIVIL (use for Schemes, Presentations & Stage I only)
DTL03 = INTERIOR FINISH DETAILS	MIS08 = PLUMBING (use for Schemes, Presentations & Stage I only)
DTL04 = CEILING AND SOFFIT DETAILS	MIS09 = STRUCTURAL (use for Schemes, Presentations & Stage I only)
DTL05 = ROOFAND SKYLIGHT DETAILS	MIS10 = LANDSCAPE
DTL06 = COLUMN ENCLOSURE DETAILS	MIS11 = ARCHITECTURAL (for Landscape use)
DTL07 = STAIR and STAIR LIFT DETAILS	MIS12 = TRAFFIC (use for Schemes, Presentations & Stage I only)
DTL08 = ELEVATOR AND WHEELCHAIR LIFT DETAIL	MIS13 = GEOTECHNICAL (use for Schemes, Presentations & Stage I only)
DTL09 = ESCALATOR AND MOVING WALKWAY DETAILS	MIS14 = TEMPORARY FACILITIES
DTL10 = TOILET DETAILS	MIS15 = CONFLICTS
DTL11 = SECURITY AND PEDESTRIAN CONTROLS	MIS16 = CONSTRUCTION STAGING
DTL12 = SITE FURNITURE	MIS17 thru MIS99 = USER DEFINED
DTL13 = WAYFINDING	RCP01 = REFLECTED CEILING PLANS
DTL14 = MISCELLANEOUS DETAILS	RP01 = ROOF PLANS
DTL15 thru DTL19 = USER DEFINED	SEC01 = CROSS SECTIONS
DTL20 thru DTL29 = LANDSCAPE DETAILS	SEC02 = LONGITUDINAL SECTIONS
DTL30 thru DTL99 = USER DEFINED	SEC03 = LANDSCAPE SECTIONS
EL01 = EXTERIOR ELEVATIONS	
FP01 = FLOOR PLANS	CB = CONTRACT BORDER
FPW01 = FLOOR PLAN WALLS	PB01 = PRESENTATION BORDER 34x44 PORTRAIT
IEL01 = INTERIOR ELEVATONS	PB02 = PRESENTATION BORDER 34x44 LANDSCAPE
IMG01= GRAPHIC IMAGES	PB03 = PRESENTATION BORDER 34x67
IMG02 = 3D DRAWINGS	PB04 = PRESENTATION BORDER ANNOTATION BLOCKS
IMG03 = SCANNED IMAGES	
IMG04 = USER DEFINED	SK01 = SKETCH BORDER
LP00 = LANDSCAPE OVERALL PLANS	AN05 = BORDER KEY PLAN

LP01 = LANDSCAPE PLANTING PLANS	AN06 = BORDER KEY SECTION
LP02 = LANDSCAPE PAVING/HARDSCAPE PLANS	AN07 = BORDER LEGEND
LP03 = LANDSCAPE GRADING PLANS	
LP04 = LANDSCAPE WETLAND MITIGATION	SKA001 = STAGE IV SKETCHES
LP05 = LANDSCAPE REMOVALS PLANS	

1.20.6.1 **ANNOTATION**

AN01 = COORDINATE GRID

- Drawings include any drawings related to the project coordinate system
 - NAD83 or NAD27 should be obtained from Central Survey
- □ Where <u>01</u> represents the <u>Coordinate Grid</u> category
- □ The drawing description should define the Coordinate system (*keep compact*) followed by [grid–] then scale) Note: use this system if various scales are required
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-AN01-NYLIFgrid-048.dwg	Attach to quarter scale drawings
A[PID]-AN01-NYLIFgrid-096.dwg	Attach to eighth scale drawings
A[PID]-AN01-NYLIFgrid-480.dwg	Attach to fortieth scale drawings

AN02 = GENERAL

- Drawings include any drawings related to the project General sheets
 - Includes overall and Architectural sheets
- □ Where <u>02</u> represents the <u>General sheet</u> category
- □ The drawing description is preceded by [–] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-AN02-RegionMap.dwg	Regional Map
A[PID]-AN02-GeneralNotes.dwg	Project General Notes
A[PID]-AN02-BuildCodeSpecNotes.dwg	Building Code and Specification Notes.

AN03 = SCHEDULES

- Drawings include any information and drawings related to schedules
- □ Where <u>03</u> represents the <u>Schedule</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-AN03-Index.dwg	Index of Drawings
A[PID]-AN03-AbbrevConvention.dwg	List of abbreviations, drawing conventions, Architectural General Notes (for a small project)
A[PID]-AN03-SchedDoor.dwg	Door Schedule

AN04 = REFERENCE

- Drawings include any information and drawings related to schedules
- □ Where <u>04</u> represents the <u>Reference</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-AN04- ReferenceSectCuts.dwg	Section cuts used to layout sections overall/details
A[PID]-AN04-	
A[PID]-AN04-	

1.20.6.2 MICROSOFT OFFICE LINKED FILES

DAT01 = EXCEL FILES

- Drawings include Microsoft Office Excel files.
- □ Where <u>01</u> represents the <u>MS Linked Files</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words
- □ May be used to replace schedules generated under AN03 category

Filename Example:

A[PID]-DAT01-DwgList.dwg	Index of Drawings
A[PID]-DAT01-Cost.dwg	Cost Estimate

1.20.6.3 DETAILS

DTL00 = ENLARGED PLANS

- Drawings include Enlarged Plans, Sections and Elevations
- □ Where <u>00</u> represents the <u>Enlarged Plan</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL00- FireCommand-Detail.dwg	Includes enlarged plans, elevations and sections
A[PID]-DTL00- Bathroom-Detail.dwg	Includes enlarged plans, elevations and sections
A[PID]-DTL00- JanitorRoomDetail.dwg	Includes enlarged plans, elevations and sections

DTL01 = EXTERIOR WALL DETAILS

- Drawings include Plan and Section Detail Blow-ups
- □ Where <u>01</u> represents the Exterior Wall category
- Direction
 - WallExt01 = North WallExt03 = East
 - WallExt02 = South WallExt04 = West
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL01-WallsExt00-GeneralDetl01.dwg	include details common to all exterior walls sheet 1
A[PID]-DTL01-WallsExt01-North01.dwg	Sheet 1
A[PID]-DTL01-WallsExt01-North02.dwg	Sheet 2
A[PID]-DTL01-WallsExt02-South.dwg	
A[PID]-DTL01-WallsExt03-East.dwg	
A[PID]-DTL01-WallsExt04-West.dwg	

DTL02 = INTERIOR WALLS DETAILS

- Drawings include Plan and Section Detail Blow-ups
- □ Where <u>02</u> represents the Interior Wall category
- Direction

- WallInt02 = South WallInt04 = West
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL02-WallsInt00-GeneralDetI01.dwg	include details common to all interior walls sheet 1
A[PID]-DTL02-WallsInt01-North01.dwg	Sheet 1
A[PID]-DTL02-WallsInt01-North02.dwg	Sheet 2
A[PID]-DTL02-WallsInt02-South.dwg	
A[PID]-DTL02-WallsInt03-East.dwg	
A[PID]-DTL02-WallsInt04-West.dwg	

DTL03 = INTERIOR FINISH DETAILS

- Drawings include Plan and Section Detail Blow-ups including but not limited to
 - Floors, furniture, ticket counters/booths, etc.
- □ Where <u>03</u> represents the <u>Interior Finishes</u> category
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL03-(User defined)01.dwg	Sheet 1
A[PID]-DTL03-(User defined)02.dwg	Sheet 2
A[PID]-DTL03-(User defined)01.dwg	Sheet 1

DTL04 = CEILING AND SOFFIT DETAILS

- Drawings include Plan and Section Detail Blow-ups
- □ Where <u>04</u> represents the Ceiling and Soffit category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where **[01]** represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL04-(User defined)01.dwg	Sheet 1
A[PID]-DTL04-(User defined)02.dwg	Sheet 2
A[PID]-DTL04-(User defined)01.dwg	Sheet 1

DTL05 = ROOFAND SKYLIGHT DETAILS

- Drawings include Plan and Section Detail Blow-ups of roofs
- □ Where <u>05</u> represents the <u>Roof and Skylight</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where **[01]** represents the number of sheets in ascending order
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL05-(User defined)01.dwg	Sheet 1
A[PID]-DTL05-(User defined)02.dwg	Sheet 2
A[PID]-DTL05-(User defined)01.dwg	Sheet 1

DTL06 = COLUMN ENCLOSURE DETAILS

- Drawings include Plan, Section and Elevation Detail Blow-ups
- □ Where <u>06</u> represents the <u>Column Enclosure</u> category
- □ User Defined description
 - Where [ColsEncl01] represents the number of sheets in ascending order
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL06-ColsEncl01-Mezz.dwg	
A[PID]-DTL06-ColsEncl02.dwg	

DTL07 = STAIR and STAIR LIFT DETAILS

- Drawings include Plans, Sections, Elevations and Detail blow-ups
- □ Where <u>07</u> represents the <u>Stair and Stair Lift</u> category
- □ User Defined description
 - Where [Stair01] represents the actual stair number
 - Where [Lift01] represents the actual stair lift number
 - A drawing description is *optional*, preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

A[PID]-DTL07-Stair00-GeneralDetl01.dwg	include details common to all stairs sheet 1
A[PID]-DTL07-Stair00-GeneralDetl02.dwg	include details common to all stairs sheet 2
A[PID]-DTL07-Stair01.dwg	
A[PID]-DTL07-Stair10-EgressTransitHall.dwg	
A[PID]-DTL07-Lift00-GeneralDetl01.dwg	include details common to all stair lift sheet 1
A[PID]-DTL07-Lift00-GeneralDetl02.dwg	include details common to all stair lift sheet 2
A[PID]-DTL07-Lift01.dwg	
A[PID]-DTL07-Lift10-EgressTransitHall.dwg	

DTL08 = ELEVATOR AND WHEELCHAIR LIFTS DETAIL

- Drawings include Plans, Sections, Elevations and Detail Blow-ups
- □ Where <u>08</u> represents the <u>Elevator and/or Wheelchair Lift</u> category
- User Defined description

Filename Example:

A[PID]-DTL08-Evtr00-GeneralDetI01.dwg	include details common to all elevators sheet 1
A[PID]-DTL08-Evtr10-PassPATH.dwg	
A[PID]-DTL08-Evtr15-PassTransitHall.dwg	
A[PID]-DTL08-Evtr01-ServicePATH.dwg	
A[PID]-DTL08-Wchr00-GeneralDetl01.dwg	include details common to all wheelchair lifts sheet 1
A[PID]-DTL08-Wchr10-PassPATH.dwg	
A[PID]-DTL08-Wchr15-PassTransitHall.dwg	
A[PID]-DTL08-Wchr01-ServicePATH.dwg	

DTL09 = ESCALATOR AND MOVING WALKWAY DETAILS

- Drawings include Plans, Sections, Elevations and Detail blow-ups
- □ Where **<u>09</u>** represents the <u>Escalator and/or Moving Walkway</u> category
- □ User Defined description
 - Where [Esci01] represents the actual escalator number
 - Where [Wway01] represents the actual moving walkway number
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

A[PID]-DTL09-Escl00-GeneralDetl01.dwg	include details common to all escalators sheet 1
A[PID]-DTL09-Escl00-GeneralDetl02.dwg	include details common to all escalators sheet 2
A[PID]-DTL09-Escl01dwg	
A[PID]-DTL09-Escl07.dwg	
A[PID]-DTL09-Wway00-GeneralDetI01.dwg	include details common to all moving walkways sheet 1
A[PID]-DTL09-Wway00-GeneralDetl02.dwg	include details common to all moving walkways sheet 2
A[PID]-DTL09-Wway01dwg	
A[PID]-DTL09-Wway07.dwg	

DTL10 = TOILET DETAILS

- Drawings include Plan, Elevation and Section Blow-ups for
 - \circ $\;$ Toilet room layouts, locker room layouts, shower stalls
- □ Where <u>10</u> represents the <u>Toilet</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - \circ Where [01] represents the number of sheets in ascending order
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL10-(User defined)01.dwg	Sheet 1
A[PID]-DTL10-(User defined)02.dwg	Sheet 2
A[PID]-DTL10-(User defined)01.dwg	Sheet 1

DTL11 = SECURITY AND PEDESTRIAN CONTROLS

- Drawings include Plan, Elevation and Section Detail Blow-ups for
 - Control rooms, fire command stations/booths, baggage equipment, bomb security, etc.
- □ Where <u>11</u> represents the <u>Security and Pedestrian Controls</u> category
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL11-(User defined)01.dwg	Sheet 1
A[PID]-DTL11-(User defined)02.dwg	Sheet 2
A[PID]-DTL11-(User defined)01.dwg	Sheet 1

DTL12 = SITE FURNITURE

- Drawings include Plan, Elevation and Section Detail Blow-ups for
 - Kiosks, canopies, windscreens, street shelters, etc.
- □ Where <u>12</u> represents the <u>Site Furniture</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where **[01]** represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL12-(User defined)01.dwg	Sheet 1
A[PID]-DTL12-(User defined)02.dwg	Sheet 2
A[PID]-DTL12-(User defined)01.dwg	Sheet 1

DTL13 = WAYFINDING

- Drawings include Plan, Elevation and Section Detail Blow-ups for
 - Signage, graphics
- □ Where <u>13</u> represents the <u>Wayfinding</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL13-(User defined)01.dwg	Sheet 1
A[PID]-DTL13-(User defined)02.dwg	Sheet 2
A[PID]-DTL13-(User defined)01.dwg	Sheet 1

DTL14 = MISCELLANEOUS DETAILS

- Drawings include Plan, Elevation and Section Detail Blow-ups
- □ Where <u>14</u> represents the <u>Miscellaneous</u> category
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL14-(User defined)01.dwg	Sheet 1
A[PID]-DTL14-(User defined)02.dwg	Sheet 2
A[PID]-DTL14-(User defined)01.dwg	Sheet 1

DTL15 thru DTL19 = USER DEFINED

- Drawings include Plan, Elevation and Section Detail Blow-ups
- □ Where <u>#</u> represents the <u>User Defined</u> category
- User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	

DTL20 thru DTL29 = LANDSCAPE DETAILS

- Drawings include Plan, Elevation and Section Detail Blow-ups
- □ Where <u>#</u> represents the <u>User Defined Landscape Detail</u> category
- User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	

DTL30 thru DTL99 = USER DEFINED

- Drawings include Plan, Elevation and Section Detail Blow-ups
- □ Where <u>#</u> represents the <u>User Defined</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	
A[PID]-DTL##-[UserDefined]-[UserDefined].dwg	

1.20.6.4 EXTERIOR ELEVATIONS

EL01 = EXTERIOR ELEVATIONS

- Drawing include Main Exterior Elevations
- Where <u>01</u> represents the Exterior Wall direction and/or location
 - \circ 01 = North 03 = East
 - \circ 02 = South 04 = West
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-EL01-ViewNorth01.dwg	Exterior elevations looking North Sheet 1
A[PID]-EL01-ViewNorth02.dwg	Exterior elevations looking North Sheet 2
A[PID]-EL02-ViewSouth.dwg	Exterior elevations looking South. Can have multiple sheets
A[PID]-EL03-ViewEast.dwg	Exterior elevations looking East. Can have multiple sheets
A[PID]-EL04-ViewWest.dwg	Exterior elevations looking West. Can have multiple sheets

1.20.6.5 FLOOR PLANS

FP01 = FLOOR PLANS

- Drawings include any major floor plans including but not limited to:
 - Floor plans, finish plans, detail plans (include additional detail to be shown at a larger scale)
- □ Where <u>01</u> represents the floor level in ascending/descending from the first level chosen
 - The drawing description is preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

A[PID]-FP01-StreetLevel-EL326.dwg	Street Level plan
A[PID]-FP01-StreetLevel-EL326Detl01.dwg	Street level plan detail area or sheet 1. can have multiple sheets [represents a detail plan]
A[PID]-FP01-StreetLevelExist-EL326.dwg	Existing Street level plan
A[PID]-FP02-[User Defined]-EL[user defined].dwg	Level 2
A[PID]-FP02-[User Defined]Exist-EL[user defined].dwg	Existing level 2

1.20.6.6 FLOOR PLANS WALLS

FPW01 = FLOOR PLANS WALLS

- Drawings include walls used in the floor plan, finish plan and reflected ceiling plan
 - Where <u>01</u> represents the floor level in ascending/descending from the first level chosen
- Number should be correspond to floor plan
 - The drawing description is preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-FPW01-StreetLevel-EL326.dwg	Street Level plan walls
A[PID]-FPW02-[User Defined]-EL[user defined].dwg	Level 2 plan walls

1.20.6.7 INTERIOR ELEVATIONS

IEL01 = INTERIOR ELEVATIONS

- Drawing include Interior Elevations
- □ Where <u>01</u> represents the Interior Wall direction and/or location
 - \circ 01 = North 03 = East
 - \circ 02 = South 04 = West
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where **[01]** represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

A[PID]-IEL01-ViewNorth01.dwg	Interior elevations looking North Sheet 1
A[PID]-IEL01-ViewNorth02.dwg	Interior elevations looking North Sheet 2
A[PID]-IEL02-ViewSouth.dwg	Interior elevations looking South. Can have multiple sheets
A[PID]-IEL03-ViewEast.dwg	Interior elevations looking East. Can have multiple sheets
A[PID]-IEL04-ViewWest.dwg	Interior elevations looking West. Can have multiple sheets

1.20.6.8 GRAPHIC, SCANNED AND 3D IMAGES

IMG01 = GRAPHIC IMAGES

- Drawings include Jpegs, Bmps, Tiffs, etc.
- □ Where 01 represents the Graphic Images category
- User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-IMG01-Sign01.dwg	Signage panel image 1
A[PID]-IMG01-Sign02.dwg	Signage panel image 2

IMG02 = 3D DRAWINGS

- Drawings include any 3D drawings created in CAD
- Where <u>02</u> represents the <u>3D Images</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-IMG02-3D-PlanEL250.dwg	3D plan for EL. 250
A[PID]-IMG02-3D-[User Defined].dwg	

IMG03 = SCANNED IMAGES

- Drawings include any Scanned images
- □ Where <u>03</u> represents the <u>Scanned Images</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-IMG03-PlanEL250.dwg	Scanned image of Removals Plan at elevation 250 (add a description to indicate what the image is used for. ex:Rmvls)
A[PID]-IMG03-[User Defined].dwg	

IMG04 = USER DEFINED

- Drawings include any 3D representations not covered in IMG01 thru IMG03
- □ Where <u>04</u> represents the <u>User Defined</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-IMG04-[UserDefined]-[UserDefined].dwg	
A[PID]-IMG04-[UserDefined]-[UserDefined].dwg	

1.20.6.9 LANDSCAPE

LP00 = OVERALL LANDSCAPE PLANS

- Drawings include any overall Landscape plans
- □ Where 00 represents the Overall Landscape Plan category
 - The drawing description is preceded by [–] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP00-[User Defined]-[User Defined].dwg	
A[PID]-LP00-[User Defined]-[User Defined].dwg	

LP01 = PLANTING PLANS

- Drawings include any planting plans
- □ Where <u>01</u> represents the <u>Planting Plan</u> category
 - The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP01-Plant-[User Defined].dwg	
A[PID]-LP01-Plant-[User Defined].dwg	

LP02 = PAVING/HARDSCAPE PLANS

- Drawings include any Paving and/or Hardscape Landscape plans
- Where <u>02</u> represents the <u>Paving/Hardscape Plan</u> category
- □ The drawing description is preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP02-Pave-[User Defined].dwg	
A[PID]-LP02-Hard-[User Defined].dwg	

LP03 = GRADING PLANS

- Drawings include any Grading Landscape plans
- □ Where <u>03</u> represents the <u>Grading Plan</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP03-Grade-[User Defined].dwg	
A[PID]-LP03-Grade-[User Defined].dwg	

LP04 = WETLAND MITIGATION

- Drawings include any Wetland Mitigation plans
- □ Where <u>04</u> represents the <u>Wetland Mitigation</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP02-WetMit-[User Defined].dwg	
A[PID]-LP02-WetMit-[User Defined].dwg	

LP05 = REMOVALS PLANS

- Drawings include any Landscape Removals plans
- □ Where <u>05</u> represents the <u>Removals</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - o No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP02-Rmvl-[User Defined].dwg	
A[PID]-LP02-Rmvl-[User Defined].dwg	

LP06 = ENLARGED PLANS

- Drawings include any Landscape Enlarged plans
- Where <u>06</u> represents the <u>Enlarged Plans</u> category
- □ The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename Example:

A[PID]-LP02-[User Defined]-[User Defined].dwg	
A[PID]-LP02-[User Defined]-[User Defined].dwg	

1.20.6.10 MISCELLANEOUS

MIS01 = SITE

- Drawing include Plans used for background information
- □ Where <u>01</u> represents the <u>Site</u> category
- User Defined description
- □ A drawing description is *optional*, preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

A[PID]-MIS01-Site-Bldg.dwg	Background buildings
A[PID]-MIS01-Site-Bldg(user defined).dwg	Particular background buildings

A[PID]-MIS01-Site-BldgExist.dwg	Existing background buildings
A[PID]-MIS01-Site-CurbExist.dwg	Existing curb

MIS02 = COLUMN GRIDS

- Drawing include plan, section and elevation column grids
- □ Where <u>02</u> represents the <u>Column Grid</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (keep compact)
 - o Description can be a word description or elevation number
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS02-ColGrid-Plan.dwg	Plan column grid
A[PID]-MIS02-ColGrid-PlanMezz.dwg	Mezzanine level column grid
A[PID]-MIS02-ColGrid-PlanEL276.dwg	Column grid at elevation 276.00'
A[PID]-MIS02-ColGrid-SectCross.dwg	Cross section column grid
A[PID]-MIS02-ColGrid-SectLong.dwg	Longitudinal section column grid
A[PID]-MIS02-ColGrid-Elev.dwg	Elevation column grid

MIS03 = EXISTING CONDITIONS

- Drawing include other Existing Conditions used for background information
- □ When inserting existing conditions into a drawing, place elements on a layer marked EXST
 - Refer to list on <u>K:\Application\EAD\CAD_Standards\2018\Architectural\Layers</u>
- □ Where <u>03</u> represents the <u>Existing Conditions</u> category
- User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS03-ArrivExist.dwg	Existing arrivals hall plan
A[PID]-MIS03-[User Defined].dwg	
A[PID]-MIS03-WTC-EL250Exist.dwg	WTC existing conditions at El. 250.00'

MIS04 = MECHANICAL

- □ Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the **Mechanical** *PUBLISH* folder
- Drawing include plans and sections of Mechanical layouts

- □ Where <u>04</u> represents the <u>Mechanical layout</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-Mech] (keep compact)
 - o No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS04-MechPlan-EL250.dwg	El 250.00' preliminary Mechanical layout
A[PID]-MIS04-Mech[User Defined].dwg	

MIS05 = ELECTRICAL

- □ Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the **Electrical** *PUBLISH* folder
- Drawing include plans and sections of Electrical layouts
- □ Where <u>05</u> represents the <u>Lighting layout</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-Elect] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS05-ElectPlan-EL250.dwg	El 250.00' preliminary lighting layout
A[PID]-MIS05-Elect[User Defined].dwg	

MIS06 = OTHER AGENCY

- Drawing include other Agency Plans used for background information
- □ Where <u>06</u> represents the <u>Other Agency</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

A[PID]-MIS06-NYCT-RWConc.dwg	RW Concourse from New York City Transit
A[PID]-MIS06-WFC-Bldg.dwg	World Financial Center Buildings
A[PID]-MIS06-WTC-PkngEL250.dwg	World Trade Center parking layout at elevation 250.00'

MIS07 = CIVIL

- Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the Civil PUBLISH folder
- Drawing include plans and sections of Civil layouts
- □ Where <u>07</u> represents the <u>Civil layout</u> category
- User Defined description
 - A drawing description is optional, preceded by [-Civil] (keep compact)
 - o No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS07-CivilPlan-EL250.dwg	El 250.00' preliminary Civil layout
A[PID]-MIS07-Civil[User Defined].dwg	

MIS08 = PLUMBING

- □ Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the **Mechanical** *PUBLISH* folder
- Drawing include plans and sections of Plumbing layouts
- □ Where <u>08</u> represents the <u>Plumbing layout</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-Plumb] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS08-PlumbPlan-EL250.dwg	El 250.00' preliminary Plumbing layout
A[PID]-MIS08-Plumb[User Defined].dwg	

MIS09 = STRUCTURAL

- □ Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the **Structural** *PUBLISH* folder
- Drawing include plans and sections of Structural layouts
- Where <u>09</u> represents the <u>Structural layout</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-Struct] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS09-StructPlan-EL250.dwg	El 250.00' preliminary Structural layout
A[PID]-MIS09-Struct[User Defined].dwg	

MIS10 = LANDSCAPE (for Landscape use only)

- Drawing include Miscellaneous layouts for Landscape
- □ Where <u>10</u> represents the <u>Miscellaneous Landscape layout</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS10-[User Defined]-[User Defined].dwg	
A[PID]-MIS10-[User Defined]-[User Defined].dwg	

MIS11 = ARCHITECTURAL (for Landscape use only)

- Use for Pre-Design and Stage 1. For Stage 2,3,&4 Xref information from the Architectural PUBLISH folder
- Drawing include plans and sections of Architectural layouts
- □ Where <u>11</u> represents the <u>Architectural layout</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-Arch] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS11-ArchPlan-EL250.dwg	El 250.00' preliminary Architectural layout
A[PID]-MIS11-Arch[User Defined].dwg	

MIS12 = TRAFFIC

- Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the Traffic PUBLISH folder
- Drawing include plans and sections of Traffic layouts
- □ Where <u>12</u> represents the <u>Traffic layout</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-Traf] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS12-TrafPlan-EL250.dwg	El 250.00' preliminary Traffic layout
A[PID]-MIS12-Traf[User Defined].dwg	

MIS13 = GEOTECHNICAL

- □ Use for Pre-Design, Stage 1, Schemes and Presentations. For Stage 2,3 & 4 Xref information from the **Geotechnical** *PUBLISH* folder
- Drawing include plans and sections of Geotechnical layouts
- □ Where <u>13</u> represents the <u>Geotechnical layout</u> category
- User Defined description
 - A drawing description is optional, preceded by [-Geo] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS13-GeoPlan-EL250.dwg	El 250.00' preliminary Geotechnical layout
A[PID]-MIS13-Geo[User Defined].dwg	

MIS14 = TEMPORARY FACILITIES

- Drawing include plan, section and elevation
- □ Where <u>14</u> represents the <u>Temporary Facilities</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS14-PlatformEL250.dwg	Temporary Platform at EL 250.00'
A[PID]-MIS14-Stair01.dwg	Temporary Stair No. 1
A[PID]-MIS14-[UserDefined].dwg	

MIS15 = CONFLICTS

- Drawing include plan, section and elevation
- Where <u>15</u> represents the <u>Conflicts</u> category
- □ User Defined description
 - A drawing description is *optional*, preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS15-Conflict-EL250.dwg	El 250.00' conflicts
A[PID]-MIS15-Conflict-CrossSect.dwg	Cross sectional conflicts
A[PID]-MIS15-Conflict-ElevWest.dwg	West elevation conflicts

MIS016 = CONSTRUCTION STAGING

- Drawing include plan, section and elevation
- □ Where <u>16</u> represents the <u>Construction Staging</u> category
- User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-MIS16-PlanEL250-PH01.dwg	El 250.00' Construction Staging Plan Phase 1
A[PID]-MIS16-PlanEL250-PH02.dwg	El 250.00' Construction Staging Plan Phase 2
A[PID]-MIS16-SectionCross01-PH01.dwg	Construction Staging Cross Section 1 Phase 1
A[PID]-MIS16-SectionCross01-PH02.dwg	Construction Staging Cross Section 1 Phase 2
A[PID]-MIS16-[UserDefined]-PH[Counter].dwg	

MIS17 thru MIS99 = USER DEFINED

- Drawing include plan, section and elevation
- □ Where <u>#</u> represents the <u>User Defined</u> category
- □ User Defined description
 - A drawing description is optional, preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

A[PID]-MIS##-[UserDefined]-[UserDefined].dwg	
A[PID]-MIS##-[UserDefined]-[UserDefined].dwg	
A[PID]-MIS##-[UserDefined]-[UserDefined].dwg	

1.20.6.11 REFLECTED CEILING PLANS

RCP01 = REFLECTED CEILING PLANS

- Drawings include any major reflected ceiling plans including but not limited to:
 - Detail plans (include additional detail to be shown at a larger scale)
- □ Where <u>01</u> represents the floor level in ascending/descending from the first level chosen
 - The drawing description is preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-RCP01-StreetLevel-EL326.dwg	Street Level RCP
A[PID]-RCP01-StreetLevel-EL326DetI01.dwg	Street level RCP detail area or sheet 1. can have multiple sheets [represents a detail plan]
A[PID]-RCP01-StreetLevelExist-EL326.dwg	Existing Street level RCP
A[PID]-RCP02-[User Defined]-EL[user defined].dwg	Level 2 RCP
A[PID]-RCP02-[User Defined]Exist-EL[user defined].dwg	Existing level 2 RCP

1.20.6.12 ROOF PLANS

RP01 = ROOF PLANS

- Drawings include any major Roof plans including but not limited to:
 - Detail plans (include additional detail to be shown at a larger scale)
- □ Where <u>01</u> represents the floor level in ascending/descending from the first level chosen or a counter if each level <u>DOES NOT</u> have a roof plan
 - The drawing description is preceded by [-] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

A[PID]-RP01-StreetLevel-EL326.dwg	Street Level roof plan
A[PID]-RP01-StreetLevel-EL326DetI01.dwg	Street level roof plan detail area or sheet 1 [represents a detail plan]
A[PID]-RP01-StreetLevelExist-EL326.dwg	Existing Street level roof plan
A[PID]-RP02-[User Defined]-EL[user defined].dwg	Level 2 roof plan
A[PID]-RP02-[User Defined]Exist-EL[user defined].dwg	Existing level 2 roof plan

1.20.6.13 SECTIONS

SEC01 = CROSS SECTIONS

- Drawing include Overall building sections
- □ When using a section type <u>01</u> represents Cross sections
- □ A drawing description is *optional* preceded by [–] (*keep compact*)
 - Where [01] represents the number of sheets in ascending order
 - o No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-SEC01-TermB-Cross-Col01.dwg	Cross section at Terminal B column line 1
A[PID]-SEC01-TermB-Cross-Col25.dwg	Cross section at Terminal B column line 25

Example of a counter:

A[PID]-SEC01-Cross-North01.dwg	Section looking North sheet 1
A[PID]-SEC01-Cross-North02.dwg	Section looking North sheet 2
A[PID]-SEC01-Cross-[User Defined].dwg	

SEC02 = LONGITUDINAL SECTIONS

- Drawing include Overall building sections
- □ When using a section type <u>02</u> represents Longitudinal sections
- □ A drawing description is optional preceded by [-] (keep compact)
 - Where **[01]** represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-SEC02-TermB-Long-A.dwg	Longitudinal Section A at Terminal B
A[PID]-SEC02-TermB-Long-Airside.dwg	Longitudinal section at Terminal B airside

Example of a counter

A[PID]-SEC02-Long-East01.dwg	Section looking East sheet 1
A[PID]-SEC02-Long-East02.dwg	Section looking East sheet 2
A[PID]-SEC02-Long-[User Defined].dwg	

SEC03 = LANDSCAPE SECTIONS

- Drawing include Overall building sections
- □ When using a section type **<u>03</u>** represents Landscape sections

- □ A drawing description is optional preceded by [-] (keep compact)
 - Where [01] represents the number of sheets in ascending order
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-SEC03-[User Defined]-[01].dwg	
A[PID]-SEC03-[User Defined]-[02].dwg	

1.20.7 PLOTSHEETS FOLDER FILE TYPES

The filenames in the Plotsheets folder should be consistent with the cad standard naming convention.

Use when Drawing Series DOES NOT exceed 9

A[<i>PID</i>]-[<i>Drawing Type</i>][<i>Series #</i>][<i>Drawing #</i>].dwg	A12345678-A101	
A[PID]-[Drawing Type][Series #][Drawing #].dwg	A12345678-LS101 (Landscape Only)	
Used when Drawing Series exceeds 9		
A[<i>PID</i>]-[<i>Drawing Type</i>][Series #][<i>Drawing</i> #].dwg	A12345678-A0101	
A[<i>PID</i>]-[<i>Drawing Type</i>][Series #][<i>Drawing</i> #].dwg	A12345678-LS0101 (Landscape Only)	

When a series system is being used, it would be helpful to create a dummy file to use as a series separator. The following are examples of series separator. The actual series name will vary with the project

The C&P and SSI sheet should be numbered sequentially after the unmarked sheets

Filename example:

TYPICAL DRAWING SET [drawing series 9 or less]

File separators should not be copied to the SUBMITTALS folder for CAD reviews

A[PID]-G000 PS PROJECT-GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-G001.dwg	Title Sheet
A[PID]-G002.dwg	Index of Drawings
A[PID]-G201.dwg	Regional Map and/or Project Map
A[PID]-A100 PS GENERAL.dwg	File separator. No data in this file; should be read only <i>Includes</i> specification, general and code notes, etc.
A[PID]-A101.dwg	
A[PID]-A200 PS PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-A201.dwg	
A[PID]-A300 PS SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-A301.dwg	
A[PID]-A400 PS ELEVATIONS.dwg	File separator. No data in this file; should be read only
A[PID]-A401.dwg	
A[PID]-A500 PS EXTERIOR DETAILS.dwg	File separator. No data in this file; should be read only Includes wall sections, wall details, roof details
A[PID]-A501.dwg	
A[PID]-A600 PS DETAILS.dwg	File separator. No data in this file; should be read only
A[PID]-A601.dwg	
A[PID]-A700 PS SCHEDULES.dwg	File separator. No data in this file; should be read only <i>Includes Doors, Room, Finish</i>
A[PID]-A701.dwg	
A[PID]-A800 PS GRAPHICS.dwg	File separator. No data in this file; should be read only
A[PID]-A801.dwg	
A[PID]-A900 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-A901.dwg	
A[PID]-LS001 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-LS001.dwg	
A[PID]-LS002.dwg	
A[PID]-LS003.dwg	

TYPICAL DRAWING SET [drawing series exceeding 9]

File separators should not be copied to the *SUBMITTALS* folder for CAD reviews

A[PID]-G0000 PS PROJECT-GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-G0001.dwg	Title Sheet
A[PID]-G0002.dwg	Title Sheet [CP & SSI Sheets]
A[PID]-G0101.dwg	Index of Drawings

A[PID]-G0102.dwg	Index of Drawings [CP & SSI Sheets]
A[PID]-G0201.dwg	Regional Map and/or Project Map
A[PID]-A0100 PS GENERAL.dwg	File separator. No data in this file; should be read only <i>Includes specification, general and code notes, etc.</i>
A[PID]-A0101.dwg	
A[PID]-A0200 PS PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-A0201.dwg	
A[PID]-A0300 PS SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-A0301.dwg	
A[PID]-A0400 PS ELEVATIONS.dwg	File separator. No data in this file; should be read only
A[PID]-A0401.dwg	
A[PID]-A0500 PS EXTERIOR DETAILS.dwg	File separator. No data in this file; should be read only Includes wall sections, wall details, roof details
A[PID]-A0501.dwg	
A[PID]-A0600 PS DETAILS.dwg	File separator. No data in this file; should be read only
A[PID]-A0601.dwg	
A[PID]-A0700 PS SCHEDULES.dwg	File separator. No data in this file; should be read only <i>Includes Doors, Room, Finish</i>
A[PID]-A0701.dwg	
A[PID]-A0800 PS GRAPHICS.dwg	File separator. No data in this file; should be read only
A[PID]-A0801.dwg	
A[PID]-A0900 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-A0901.dwg	
A[PID]-A1000 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-A1001.dwg	
A[PID]-A1100 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-A1101.dwg	
A[PID]-LS0000 PS [User Defined].dwg	File separator. No data in this file; should be read only
A[PID]-LS0001.dwg	
A[PID]-LS0002.dwg	
A[PID]-LS0003.dwg	

CONSTRUCTION STAGING [drawing series 9 or less]

File separators should not be copied to the SUBMITTALS folder for CAD reviews

A[PID]-CS100 PS STAGING GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-CS101.dwg	
A[PID]-CS200 PS STAGING PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-CS201.dwg	

A[PID]-CS300 PS STAGING SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-CS301.dwg	

CONSTRUCTION STAGING [drawing series exceeding 9]

File separators should not be copied to the SUBMITTALS folder for CAD reviews

A[PID]-CS0100 PS STAGING GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-CS0101.dwg	
A[PID]-CS0200 PS STAGING PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-CS0201.dwg	
A[PID]-CS0300 PS STAGING SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-CS0301.dwg	

TEMPORARY FACILITIES [drawing series 9 or less]

File separators should not be copied to the SUBMITTALS folder for CAD reviews

A[PID]-AT100 PS TEMP FACILITIES GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-AT101.dwg	
A[PID]-AT200 PS TEMP FACILITIES PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-AT201.dwg	
A[PID]-AT300 PS TEMP FACILITIES SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-AT301.dwg	
A[PID]-AT400 PS TEMP FACILITIES DETAILS.dwg	File separator. No data in this file; should be read only
A[PID]-AT401.dwg	

TEMPORARY FACILITIES [drawing series exceeding 9]

File separators should not be copied to the SUBMITTALS folder for CAD reviews

A[PID]-AT0100 PS TEMP FACILITIES GENERAL.dwg	File separator. No data in this file; should be read only
A[PID]-AT0101.dwg	
A[PID]-AT0200 PS TEMP FACILITIES PLANS.dwg	File separator. No data in this file; should be read only
A[PID]-AT0201.dwg	
A[PID]-AT0300 PS TEMP FACILITIES SECTIONS.dwg	File separator. No data in this file; should be read only
A[PID]-AT0301.dwg	
A[PID]-AT0400 PS TEMP FACILITIES DETAILS.dwg	File separator. No data in this file; should be read only
A[PID]-AT0401.dwg	

1.20.8 PUBLISH FOLDER FILE TYPES

1.20.8.1 BORDER SHEETS

CB = CONTRACT BORDER SHEET

- Drawings include any drawings related to the project Contract Border
 - Original should be obtained from <u>K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders</u>
 - One Border file should be used by both PANYNJ EAD and their respective Consultants
 - Consultant information should be inserted, as a block, using the pre-defined stamps located on the server
 K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps
 - If your project has been designated CP, insert the CP stamp as a block, as required from (see EAD CAD Standards manual for further usage)
 K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps

Filename example:

[PID]-CB.dwg	Standard contract border – 22x34
[PID]-CB.dwg	Over Size contract border – 34x56
[PID]-CB-Info.dwg	Standard contract border side bar information block
[PID]-CB-Info_OS.dwg	Over Size contract border side bar information block

AN05 = BORDER SHEET KEY PLAN

- Drawings include any drawings related to the project Key plan used for plans
- □ Where <u>05</u> represents the <u>Border Key Plan</u> category
 - The drawing description is preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-AN05-KeyPlan-EL250.dwg	Key plan for EL. 250
A[PID]-AN05-KeyPlan-EL264.dwg	Key plan for EL. 264
A[PID]-AN05-KeyPlan-Arriv.dwg	Key plan for Arrivals Level

AN06 = BORDER SHEET KEY SECTION

- Drawings include any drawings related to the project Key plan used for sections
- □ Where <u>06</u> represents the <u>Border Key Section</u> category
 - The drawing description is preceded by [-] (keep compact)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-AN06-KeySect-E	L250.dwg	Key plan for EL. 250
A[PID]-AN06-KeySect-E	L264.dwg	Key plan for EL. 264
A[PID]-AN06-KeySect-A	rriv.dwg	Key plan for Arrivals Level

AN07 = BORDER SHEET LEGEND

- Drawings include any drawings related to the project Legend used for
 - Construction Staging, Light fixture types, etc.
- □ Where <u>07</u> represents the <u>Border Legend</u> category
 - The drawing description is preceded by [–] (*keep compact*)
 - No spaces between words, use a capital letter to separate words

Filename example:

A[PID]-AN07-LegendStaging.dwg	Legend used for Construction Staging Plans
A[PID]-AN07-LegendStagingSect.dwg	Legend used for Construction Staging Sections
A[PID]-AN07-LegendLights.dwg	Legend used for RCP Plans

PB01 = PRESENTATION BORDER SHEET PORTRAIT

- Drawings include any drawings related to the project Portrait Presentation Border
 - Original should be obtained from

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps

- U Where <u>01</u> represents the <u>Portrait Presentation Border</u> category
- □ If Border will be used by other disciplines remove the 'Discipline Code' in front of the PID
- Anticipated use
 - Stage 1 or Pre-Stage 1

Filename example:

A[PID]-PB01-34x44P.dwg	Presentation border – 34x44 Portrait
A[PID]-PB01-34x44PInfo.dwg	Presentation border – 34x44 Portrait information block

PB02 = PRESENTATION BORDER SHEET LANDSCAPE

- Drawings include any drawings related to the project Landscape Presentation Border
 - Original should be obtained from

K:\Application\EAD\CAD Standards\2018\All Disciplines\Contract Borders\Stamps

- Where **<u>02</u>** represents the <u>Landscape Presentation Border</u> category
- □ If Border will be used by other disciplines remove the '*Discipline Code*' in front of the PID
- Anticipated use
 - Stage 1 or Pre-Stage 1

Filename example:

A[PID]-PB02-34x44L.dwg	Presentation border – 34x44 Landscape
A[PID]-PB02-34x44LInfo.dwg	Presentation border – 34x44 Landscape information block

PB03 = PRESENTATION BORDER SHEET OVERSIZE

Drawings include any drawings related to the project Oversized Presentation Border

Original should be obtained from

K:\Application\EAD\CAD Standards\2018\All Disciplines\Contract Borders\Stamps

- Where **<u>03</u>** represents the <u>Oversize Presentation Border</u> category
- □ If Border will be used by other disciplines remove the 'Discipline Code' in front of the PID
- Anticipated use
 - Stage 1 or Pre-Stage 1

Filename example:

A[PID]-PB03-34x67.dwg	Presentation border – 34x67
A[PID]-PB03-34x67Info.dwg	Presentation border – 34x67 Landscape information block
A[PID]-PB03-34X??.dwg	Presentation border – 34x varied size (<i>will not be available</i> on the L:/drive – custom size)
A[PID]-PB03-34X??Info.dwg	Presentation border – 34x varied size information block (will not be available on the L:/drive – custom size)

PB04 = PRESENTATION BORDER ANNOTATION

- Drawings include any annotation drawings related to the project Presentation Border
 - o Original should be obtained from location designated by Task Leader
- Drawing should be inserted into border file as a block using a designated point, indicated in drawing, <u>not</u> 0,0
- □ Where **<u>04</u>** represents the <u>Presentation Border Annotation</u> category
- □ If Border will be used by other disciplines remove the '*Discipline Code*' in front of the PID
- Anticipated use
 - Stage 1 or Pre-Stage 1

Filename example:

A[PID]-PB04-Date.dwg	Presentation border date file	
A[PID]-PB04-Disclaimer.dwg	Presentation disclaimer file (uses' WIPEOUT' command) if needed	
A[PID]-PB04-Legend.dwg	Presentation program legend (uses' WIPEOUT' command)	

SK01 = SKETCH BORDER SHEET

- Drawings include any drawings related to the project Sketch Border
 - Original should be obtained from

K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders\Stamps

- Where <u>01</u> represents the <u>Sketch Border</u> category
- Anticipated use
 - During Stage 2 or 3 when design sketches are required. These borders have the same viewport as the Standard and Oversize Contract Borders. This will allow an easy transition into the contract format once the sketch has been approved.
- □ These Plotsheets should not be copied to the SUBMITTALS folder for CAD reviews

Filename example:

A[PID]-SKA01.dwg	Standard sketch border – 22x34
A[PID]-SKA01.dwg	Over Size sketch border – 34x56
A[PID]-SKA01-Info.dwg	Standard sketch border side bar information block
A[PID]-SKA01-Info_OS.dwg	Over Size sketch border side bar information block

1.20.9 STAGE IV FILE TYPES

1.20.9.1 SKETCHES

SK = STAGE IV DRAWING

- Drawings include any drawings related to the project Stage IV
 - Original should be obtained from <u>K:\Application\EAD\CAD_Standards\2018\All_Disciplines\Contract_Borders</u>
 - Server location of sketches to be M:\FACILITY\PID\Architectural\SCHEMES\Stage 4\Sketches\
 - Where [001] represents the number of sheets in ascending order
 - Where [A] represents multiple sheets in sketch drawing
 - No spaces between words, use a capital letter to separate words
- □ Anticipated use:
 - Responses to RFIs
 - Clarification for shop drawing submittals
 - Discipline coordination
- Drawing should be self-contained, drawing and border in one file.
 - Drawing information should be E-Transmitted, as a bound file, from the *MODEL* or *PLOTSHEETS* folder to the designated *sketch* or *RFI Response* folder.
 - o Border should be inserted, as a block, into Paper Space of the sketch
- Create a PDF to be placed in the MANAGEMENTDOCS Folder for submission to Document Control along with or as your RFI response
 - M:\FACILITY\PID\Architectural\MANAGEMENTDOCS\Stage-4\SubmittalsPDFsRFlsRFQs\Sketches\
- These Plotsheets should not be copied to the *SUBMITTALS* folder for CAD reviews

Filenames from server:

Border - ANSI A - Horizontal.dwg	8 ½" x 11" Landscape Sketch Border	
Border - ANSI A - Vertical.dwg	8 ½" x 11" Portrait Sketch Border	
Border - ANSI B - Horizontal.dwg	11" x 17" Landscape Sketch Border	
Border - ANSI B - Vertical.dwg	11" x 17" Portrait Sketch Border	

Border – 22 x 34.dwg	22" x 34" Sketch Border
Border – 34 x 56.dwg	34" x 56" Sketch Border

Filename Example: for [DWG] files

A[PID]-SKA001-[User Defined].dwg	First drawing in Stage IV Sketch set		
A[PID]-SKA032A-[User Defined].dwg	32 nd drawing in Stage IV Sketch set requiring more than one sketch		

Filename Example: for [PDF] files

A[PID]-SKA001_TransNo00229.pdf	Clarification sketch issued with a shop drawing submittal return	
A[PID]-SKA029_6BRFINo30.pdf	Clarification sketch issued with a RFI response	
A[PID]-SKA032_6B-AltEntryLayoutCoord.pdf	Sketch issued for discipline coordination	

1.20.9.2

Filename example: for [DWG] FILES - SHEET vs. SERVER

The <u>zero</u> in the server file name is to sort the drawings in ascending order on the server. The zero is <u>not</u> required for the drawing number on the plot sheet.

SERVER FILE NAME	DRAWING NUMBER ON PLOT SHEET
A[PID]-SKA001-[User Defined].dwg	
A[PID]-SKA029-[User Defined].dwg	
A[PID]-SKA032A-[User Defined].dwg	
A[PID]-SKA110-[User Defined].dwg	



1.21 APPENDIX G – CIVIL DISCIPLINE

1.21.1 CONTENT PREFERENCES

This Section Is Under Construction

1.21.2 LAYER STRATAGEM

1.21.2.1 CIVIL WORK

C ALGN BRING 131 Continuous Yes DEARNINGS C ALGN CORC 131 Continuous Yes CORDINATE GEOMETRY INFORMATION C ALGN DIKA DIKA Nes ALGMET DIMENSIONS C ALGN DIKA DIKA DIKA DIKA C ALGN DIKA DIKA DIKA DIKA C ALGN HOR EDOE 131 Continuous Yes ALGNETRUMAY FEDE C ALGN HOR EDOE 131 Continuous Yes RUGMENTANDATIONS AND NOTES C ALGN POFTE 121 Continuous Yes POFTEC/CRE/POC BUBIES AND TeXT C ALGN POFTE 121 Continuous Yes POFTEC/CRE/POC BUBIES AND TeXT C ALGN POFTE 121 Continuous Yes POFTEC/CRE/POC BUBIES AND TeXT C ALGN POFOF GRID 251 Continuous Yes POFO	DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
C ALGN CRVE 131 Continuous Yes CURVE MUMBERS C ALGN DIMS 100 Continuous Yes ALGNMET DIMENSIONS C ALGN MOR_ EDGE 131 Continuous Yes ALGNMETT DIMENSIONS C ALGN HOR_ EDGE 131 Continuous Yes ALGNMERT DIMENSIONS C ALGN HOR_ TEMP 131 Continuous Yes ALGNMERT CINCIDANTICLINE, HORIZONTAL C ALGN MOTE 121 Continuous Yes PADOFENTY LINE AND TEXT C ALGN PROP 100 Phantonz Yes PADOFENTY LINE AND TEXT C ALGN ROVIL 131 Phantonz Yes PADOFENTY LINE AND TEXT C ALGN ROVIL 131 RR Yes FADOFENTY LINE AND TEXT C ALGN ROVIL 131 RR Yes FADOFENTY LINE AND TEXT C ALGN TTRAK		-	-					
C ALGN DIMS 100 Continuous Yes ALGNMENT DIMENSIONS C ALGN GAGE 131 Continuous Yes GAUGUNE, TRACK C ALGN HOR_ EDGE 131 Continuous Yes GAUGUNE, TRACK C ALGN HOR_ TEMP 131 Continuous Yes GAUGUNE, TRACK C ALGN MORT TEMPGRART TEMPGRART GAUGUNE, TRACK GAUGUNE, TRACK C ALGN POPT 100 Continuous Yes PEOPTECPERPED TEMPGRART GAUGUNE, TATORS AND TEXT C ALGN PROP 010 Continuous Yes PEOPTECPERPED TEMPGRART T								
C ALGN GAGE 131 Continuous Yes GAUGE LINE TRACK C ALGN HOR_ EDGE 131 Continuous Yes TRACK C ALGN HOR_ TEMP 131 Continuous Yes TALGNARHY CENTERLINE, HORIZONTAL C ALGN NOTE 121 Continuous Yes ALGNMENT WORTATIONS AND NOTES C ALGN PROFT 100 Continuous Yes PROFED BLE GRID C ALGN PROF GRID 251 Continuous Yes PROFED BLE GRID Continuous C ALGN PROF GRID 131 Phantom Yes PROFED CFL CORED ALGEN AND TEXT C ALGN STAT 100 Continuous Yes TALGNARENT TEXT C ALGN TRAK SALG 131 RR Yes TALGNARENT TEXT C ALGN TRAK SALG 131 RR Yes TALGNARENT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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C ALGN PROP 100 Phantoma Yes PROPERTY LIBES AND TEXT C ALGN ROWL 131 Phantoma Yes ALIGNMERT STATONS AND TEXT C ALGN STAT 100 Continuous Yes Point OF SWITCH C ALGN TRACK SWCH 100 Continuous Yes POINT OF SWITCH C ALGN TRAK GAUGE LINE, TRACK TRACK ALGNENT TRACK ALGNENT C ALGN TRAK GAUGE LINE, TRACK TRACK ALGNENT TRACK ALGNENT C ALGN TRAK VERT 131 RR Yes TOP OF FAIL C ALGN TRAK VERT 131 Continuous Yes TOP AT FAIL C ALGN TRAK VERT 131 Continuous Yes TOP AT FAIL C ALGN CERT 131 Continuous Yes CONSTRUCTION LINES C ALGN CERT TAIL TOP AT FAIL </td <td></td> <td></td> <td>-</td> <td>GRID</td> <td></td> <td></td> <td></td> <td></td>			-	GRID				
C ALIGN STAT 100 Continuous Yes ALIGNET STATIONS AND TEXT C ALGN TFRD 131 Continuous Yes POINT OF SWTCH C ALGN TFRAC SWCH 131 Continuous Yes TEMPORARY ROAD ALIGNMENTS C ALGN TRAK GAUGE LINE, TRACK GAUGE LINE, TRACK Continuous Yes TOP OF RAIL C ALGN TRAK WCH 131 RR Yes TOP OF RAIL C ALGN TRAK VERT 131 RR Yes TOP OF RAIL C ALIGN VERT 131 Continuous Yes TOP OF RAIL C ALIGN VERT 131 Continuous Yes CONSTRUCTION LINES C ALIGN VERT 131 Continuous Yes CONSTRUCTION LINES C ANNO COGO GRID 252 Continuous Yes CONSTRUCTION LINES C ANNO								
C ALGN SWCH 100 Continuous Yes POINT OF SWITCH C ALGN TRAK ITRAK Ital Continuous Yes TEMPORARY ROAD ALGNMENTS C ALGN TRAK GAGE Ital RR Yes GAUGE LINE, TRACK C ALGN TRAK SWCH 131 RR Yes GAUGE LINE, TRACK C ALGN TRAK SWCH 131 RR Yes GAUGE LINE, TRACK C ALGN TRAK VERT 131 RR Yes TOP AT RAIL C ALGN VERT 131 Continuous Yes COORDINATE GEOMETRY GRID C ANNO CONS 30 Continuous Yes DIMENSIONS C ANNO CONS 121 Continuous Yes DIMENSIONS C ANNO MTCH 172 Continuous Yes NOTTH ARROW C ANNO NOTE 1211 Co	С							
C ALGN TFRD 131 Continuous Yes TEMPORAY ROAD ALIGNMENTS C ALGN TRAK GAGE 131 RR Yes TRACK ALIGNMENT C ALGN TRAK GAGE 131 RR Yes TRACK ALIGNMENT C ALGN TRAK GAGE 131 RR Yes FOP OF RAIL C ALGN TRAK VERT 131 RR Yes TOP OF RAIL C ALGN VERT 131 RR Yes TOP OF RAIL C ALGN VERT 131 Continuous Yes TOP OF RAIL C ANNO CONS 30 Continuous Yes CONSTRUCTION OF UPDATED WORK C ANNO LGND 121 Continuous Yes IMACH LINE C ANNO NARW 121 Continuous Yes NOTES C ANNO NARW 121 Continuous Yes NO	С				100	Continuous	Yes	
C ALGN TRAK I 131 RR Yes TRACK ALLGNMENT C ALGN TRAK SWCH 131 RR Yes GAUGE LINE, TRACK C ALGN TRAK SWCH 131 RR Yes TOP AT RAL C ALGN TRAK VERT 131 RR Yes TOP AT RAL C ALGN TRAK VERT 131 Continuous Yes TOP AT RAL C ANNO COGO GRID 252 Continuous Yes COORDINATE GEOMETRY GRID C ANNO COGO GRID 252 Continuous Yes CONSTRUCTION LINES C ANNO CONS 30 Continuous Yes CONSTRUCTION LINES C ANNO MARW 121 Continuous Yes CONSTRUCTION LINES C ANNO NOTE 121 Continuous Yes NOTES C ANNO SCLE 121								
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C PAVE CONC 12 Continuous Yes ROAD, PARKING LOT AND AIRSIDE				PATT				
				BACK				



С	PAVE	CURB	FACE	131	Continuous	Yes	FACE OF CURB
C	PAVE	DIMS	TAGE	100	Continuous	Yes	PAVEMENT DIMENSIONS
C	PAVE	GRAV		12	Continuous	Yes	GRAVEL
C	PAVE	JBAR		220	Continuous	Yes	JERSEY BARRIERS
C	PAVE	JNTS		220	Continuous	Yes	EXPANSION JOINTS
C	PAVE	LIMT		13	Dashed	Yes	PAVING LIMITS
С	PAVE	NOTE		121	Continuous	Yes	PAVING NOTES
C	PAVE	SECT		172	Continuous	Yes	SECTION MARKS
С	PROF			1	Continuous	Yes	PROFILE FEATURES
С	PROF	BASE		1	Continuous	Yes	PROFILE BASE
C	PROF	FGCL		131	Continuous	Yes	PROFILE FINISHED GROUND
С	PROF	NOTE		100	Continuous	Yes	PROFILE NOTES AND ANNOTATIONS
	PROF				Continuous		MISC. TEXT & CALLOUTS WITH ASSOC.
С	-	TEXT		100	Continuous	Yes	LEADER LINES
С	PROF	XING		131	Continuous	Yes	PROFILE UTILITY CROSSINGS
С	SECT			131	Continuous	Yes	SECTION FEATURES
С	SECT	DIMS		100	Continuous	Yes	SECTION DIMENSIONS
С	SECT	NOTE		121	Continuous	Yes	SECTION NOTES AND ANNOTATIONS
С	SECT	SMPL		220	Continuous	Yes	SECTION SAMPLE LINES
С	SECT	VIEW		100	Continuous	Yes	SECTION VIEWS
С	SECT	VIEW	TABL	100	Continuous	Yes	SECTION VIEW TABLES
С	SITE	ABUT		131	Continuous	Yes	BRIDGE ABUTMENTS
С	SITE	BLDG		131	Continuous	Yes	BUILDINGS, SHEDS, MAJOR AND MINOR SITE FEATURES
С	SITE	BLDG	TEXT	100	Continuous	Yes	MINOR AND MAJOR SITE FEATURE TEXT
c	SITE	COGO	12/1	121	Continuous	Yes	SITEWORK COORDINATE GEOMETRY
C C	SITE	FNCE		131	Continuous	Yes	FENCES AND BOLLARDS
C	SITE	FNDN		131	Continuous	Yes	FOUNDATIONS
c	SITE	GUID		131	Continuous	Yes	GUIDE RAILS
C	SITE	LAND		131	Continuous	Yes	LANDSCAPE FEATURES
C	SITE	NOTE		100	Continuous	Yes	SITE NOTES AND ANNOTATIONS
c	SITE	SIGN		220	Continuous	Yes	SIGNS
C	SITE	SIGN	TEXT	100	Continuous	Yes	SIGN TEXT
C	SITE	TICK	TEXT	121	Continuous	Yes	TICK MARKS
C	SITE	WALL		131	Continuous	Yes	WALLS
C	STAG	BRDR	PATT	12	Continuous	Yes	HATCH BORDERS
C	STAG	DIMS	TAIT	100	Continuous	Yes	CONSTRUCTION STAGE DIMENSIONS
							CONSTRUCTION STAGE DIMENSIONS
С	STAG	NOTE		100	Continuous	Yes	ANNOTATIONS
С	STAG	STAGE		12	Continuous	Yes	CONSTRUCTION STAGE FEATURES
С	STAG	STAG	TEXT	100	Continuous	Yes	MISC. TEXT & CALLOUTS WITH ASSOC.
			,				LEADER LINES
C	UTIL	CB		121	Continuous	Yes	CATCH BASINS
C	UTIL	CB	TEXT	100	Continuous	Yes	
C	UTIL	COGO		121	Continuous	Yes	UTILITY COORDINATE GEOMETRY
C	UTIL	DIMS		121	Continuous	Yes	UTILITY DIMENSIONS
С	UTIL	FIRE		121	HPW	Yes	FIRE (HIGH PRESSURE WATER LINE) FIRE (HIGH PRESSURE WATER LINE)
С	UTIL	FIRE	TEXT	100	Continuous	Yes	TEXT
С	UTIL	FUEL		121	FOS	Yes	FUEL LINE
C	UTIL	FUEL	TEXT	100	Continuous	Yes	FUEL TEXT
C	UTIL	GASL		121	G	Yes	GAS LINE
С	UTIL	GASL	TEXT	100	Continuous	Yes	GAS TEXT
C	UTIL	HYDR		121	Continuous	Yes	HYDRANTS
C	UTIL	HYDR	TEXT	100	Continuous	Yes	HYDRANTS TEXT
C	UTIL				Continuous		MANHOLES OTHER THAN SANITARY OR
		MH		121		Yes	STORM
С	UTIL	MH	TEXT	100	Continuous	Yes	MANHOLES TEXT
С	UTIL	NOTE		121	Continuous	Yes	NOTES AND ANNOTATION
С	UTIL	SSMH		121	Continuous	Yes	SANITARY SEWER MANHOLES
С	UTIL	SSMH	TEXT	100	Continuous	Yes	SANITARY SEWER MANHOLES TEXT
С	UTIL	SSWR		121	SAN	Yes	SANITARY SEWER
С	UTIL	SSWR	TEXT	100	Continuous	Yes	SANITARY SEWER TEXT
С	UTIL	STEM	HPRS	121	HPS	Yes	HIGH PRESSURE STEAM LINE
С	UTIL	STEM	LPRS	121	LPS	Yes	LOW PRESSURE STEAM LINE
С	UTIL	STEM	MPRS	121	MPS	Yes	MEDIUM PRESSURE STEAM LINE
С	UTIL	STEM	TEXT	100	Continuous	Yes	STEAM TEXT
С	UTIL	STRM		121	ST	Yes	STORM DRAINAGE LINE
С	UTIL	STRM	CB	121	Continuous	Yes	STORM DRAINAGE CATCH BASINS
С	UTIL	STRM	MH	121	Continuous	Yes	STORM DRAINAGE MANHOLES
	UTIL	STRM	SD	121	Continuous	Yes	SUB-DRAIN
С		STRM	TEXT	100	Continuous	Yes	STORM DRAINAGE TEXT
C C	UTIL	STRW	TEXT				
	UTIL UTIL	WATR	COLD	121	CW	Yes	COLD WATER LINE
C C C					HWS	Yes Yes	COLD WATER LINE HOT WATER LINE
C C	UTIL	WATR	COLD	121		1	



С	UTIL	WATR	MPRS	121	MPS	Yes	MEDIUM PRESSURE WATER LINE
С	UTIL	WATR	TEXT	100	С	Yes	WATER TEXT
С	XREF			121	Continuous	Yes	EXTERNAL REFERENCE DRAWINGS
С	XREF	RAST		121	Continuous	Yes	RASTER IMAGES

1.21.3 LINETYPES

Name	Description	Example				
С	Communication Line (1x)	CCCC				
Continuous	Continuous					
CW	Cold Water Line (1x)	CWCW				
DASHED	Dashed (1x)					
DIVIDE	Divide (1x)					
FOS	Fuel Line (1x)					
G	Gas Line (1)	G G G				
HPS	High Pressure Steam Line (1x)					
HPW	High Pressure Water Line (1x)					
HWS	Hot Water Line (1x)					
LPS	Low Pressure Water Line (1x)	LPS LPS				
MPS	Medium Pressure Water Line (1x)	MPS MPS				
PHANTOM	Phantom (1x)					
PHANTOM2	Phantom (0.5x)					
RR	Rail Road (1x)					
SAN	Sanitary Sewer Line (1x)	SAN SAN				
ST	Storm Drainage Line (1x)	STST				

1.21.4 SYMBOLS

1.21.4.1 DRAFTING CONVENTIONS

Symbol	Block Name	Layer Name	Description
DIST DIE SECOND ENL	civ-CALLOUT.dwg	Varies	Callout for Plans
D D/ SF //	civ-DET-SYMB.dwg	Varies	Detail Symbol for Plans
KC.	CS_CURVE.dwg	C-ALGN-CRVE	Curve Number Label
DE SC	CS_FG-POINT.dwg	C-GRAD-SPOT	Finished Grade Spot Elevation
D L L L NORT IF A	CS_GRID.dwg	C-ANNO-COGO- GRID	Cogo Grid Tick
	CS_PC.dwg	C-ALGN-CRVE	Bubble
	CS_PITO.dwg	C-ALGN-CRVE	Revision Triangle
	CS_PS.dwg	C-ALGN-CRVE	Grid Bubble
	CS_REMTIC.dwg	C-RMVL-TICK	Removal Tic
	CS_SECMARK1.dwg	C-PAVE-SECT	Section Marker for Plans
	CS_SECMARK2.dwg	C-PAVE-SECT	Section Marker for Plans
	CS_TWEDMKR.dwg	C-MARK-AIRS	Taxiway Edge Marker
POINT TTTV DESC	FG-POINT.dwg	C-GRAD-SPOT	Finished Grade Spot Elevation

POINT 77777 Desc	POINT (old).DWG	C-GRAD-SPOT	Finished Grade Spot Elevation (Old)
	Sec1.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
└──	Sec2.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
	Sec3.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
	Sec4.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
	Sec5.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
↓ ↓	Sec6.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
1	Sec7.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
	Sec8.dwg	C-ANNO-SYMB	Section, Detail, Elev. Callout
ESSON: INC.	Section Title.dwg	C-ANNO-SYMB	Section Title

1.21.4.2 UTILITIES

Symbol	Block Name	Layer Name	Description
	CS_CB.dwg	C-UTIL-CBSN	Catch Basin
	CS-CBADJ.dwg	C-UTIL-CBSN	Adjust Removal Catch Basin
	CS_CB-MH.dwg	C-UTIL-MANH	Convert Removal Catch Basin to Manhole

CS_EBOX.dwg	C-UTIL-MANH	Adjusted Electrical Box/Hand Hole
CS_FLOW.dwg	(Layer is Same as it is for Utility Pipe)	Flow Arrow
CS_HYD.dwg	C-UTIL-HYDR	Utility Hydrant
CS_MH.dwg	C-UTIL-MANH	Manhole
CS_MGADJ.dwg	C-UTIL-MANH	Adjust Removal Manhole
CS_PIPEPLUG.dwg	C-UTIL-STRM	Pipe Plug
CS_VALVE.dwg	(Layer is Same as it is for Utility Pipe)	Utility Line Valve

1.21.5 CIVIL 3D

This Section Is Under Construction

1.21.5.1 DATA SHORTCUTS (NY-NJ PORT AUTHORITY CIVIL 3D OBJECT SHARING)

Most AutoCAD users are familiar with referencing techniques for sharing drawing information, such as XREF, wblock, import and attach. Civil 3D uses intelligent objects, such as surfaces and profiles, which do not retain intelligence through typical external references^{*}. The proper way to share intelligent civil 3D objects is through Data Shortcuts. Objects include:

- Alignments
- Surfaces
- Profiles
- Sections
- Corridors
- Pipe Networks

Note: *Users can add labels to civil objects through xref, but cannot design/build from data.

Data Shortcut method involves two steps, sharing (export) and referencing (import).

Note: You may only wish to do step 2- Reference Data Shortcuts. Skip to page 4.

1.21.5.1.1 SHARE DATA SHORTCUTS

Open drawing containing the civil objects to be shared. These objects must be native to the open drawing and not externally referenced (xref). Once a user has created a civil object, the drawing must be saved.

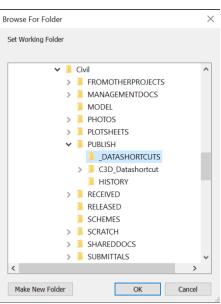
This object is shared with other users through the Data Shortcuts within the prospector tab of the Toolspace.

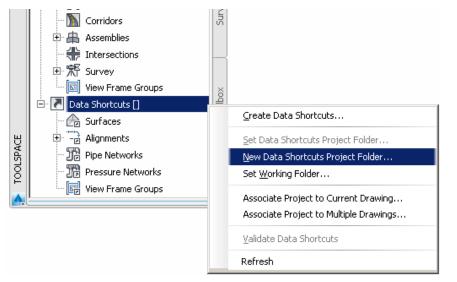
Set the Working Folder

Right click on the Data Shortcut and select Set Working Folder. In the Civil folder of the PID folder, select the **_DATASHORTCUTS** inside the **PUBLISH** folder as the Working Folder. Click OK.

Create New Data Shortcuts Folder

Right click the Data Shortcuts again and select **New Data Shortcuts Folder...**





Enter the name C3D_Datashortcuts and click OK. (Do Not Check box for 'Use Project Template')

🗛 New Data Shortcut Folder 🔹 💈
Working folder: C:\Civil 3D Projects
Name
C3D_Datashortcuts
Description:
Use project template - Do Not Check!

Create Data Shortcuts

Right Click Data Shortcuts again. Select Create Data Shortcuts.



Civil 3D will collect all intelligent civil objects within the drawing and display them in a dialog box. Users can specify which objects they wish to share by checking them off. Multiple objects, such as surfaces and alignments, can be added to the data shortcut.

	Object Status
	📮 👍 🔳 Surfaces
	- 🜈 🔽 Corridor - (1) Surface To be added
	- 🗁 🗔 Surface1
:	🖳 🌈 🔽 Surface2
	🗄 📴 🗔 View Frame Groups

Check desired objects to share and click **OK**. Data Shortcuts have been created.

Note: The data shortcut is saved to the C3D_Datashortcuts folder in xml format. Civil 3D is programmed to recognize these files to allow users to reference the intelligent data. If the object is modified in the native drawing, the xml and drawings referencing the data shortcut will automatically update.

Note: The following page describes the process of Referencing Data Shortcuts. This may be the only step users would use if not actually creating Civil 3D objects or data shortcuts.

1.21.5.1.2 Reference Data Shortcuts

Another user may want to import these objects into their drawing. The user must open another drawing or create new in order to reference data shortcut objects.

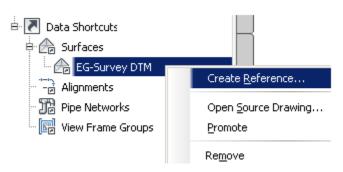
(The drawing must be saved prior to referencing)

Set the Working Folder

Right click on the Data Shortcut and select **Set Working Folder**. In the Civil folder of the PID folder, select the **_DATASHORTCUTS** folder inside the **PUBLISH** folder as the Working Folder. Click **OK**.

The Data Shortcuts will display a + symbol next to the object type available for reference. Click the + to expand the object type. Select the object and right click. Select **Create Reference...**

Browse For Folder		\times
Set Working Folder		
v 🖡	Civil	^
>	FROMOTHERPROJECTS	
>	MANAGEMENTDOCS	
	MODEL	
>	PHOTOS	
>	PLOTSHEETS	
~	PUBLISH	
	>] C3D_Datashortcut	
	HISTORY	
>	RECEIVED	
	RELEASED	
	SCHEMES	
>	SCRATCH	
>	SHAREDDOCS	
>	SUBMITTALS	\mathbf{v}
<	>	
Make New Folder	OK Cancel	



(If Create Reference... is disabled (grey), you must save drawing and reattempt this step.)

A dialog box will appear to allow user to set or change object style and name. Click **OK**. Object is successfully referenced and should display on screen. (Zoom extents). **Save Drawing**

THE PORT AUTHORITY OF NY & NJ has compiled sets of custom parts for use with Civil 3D Pipe Networks. There are several part families for both Pipes and Structures. The Pipe Network Catalog Settings should be mapped to the designated location for all Civil 3D users to access both standard parts and Port Authority custom parts:

1.21.5.2 PIPE NETWORK

Set Pipe Network Catalog...

K:\Application\EAD\CAD_Standards\2018\Civil\Pipes Catalog

The Pipe settings include Pipes catalogs:

- Metric Pipe Catalog
- Port Authority of NY and NJ Custom Pipe Catalog
- US Imperial Pipe Catalog

The Pipe settings include Structure catalogs:

- Metric Structure Catalog
- Port Authority of NY and NJ Custom Structure Catalog
- US Imperial Structure Catalog

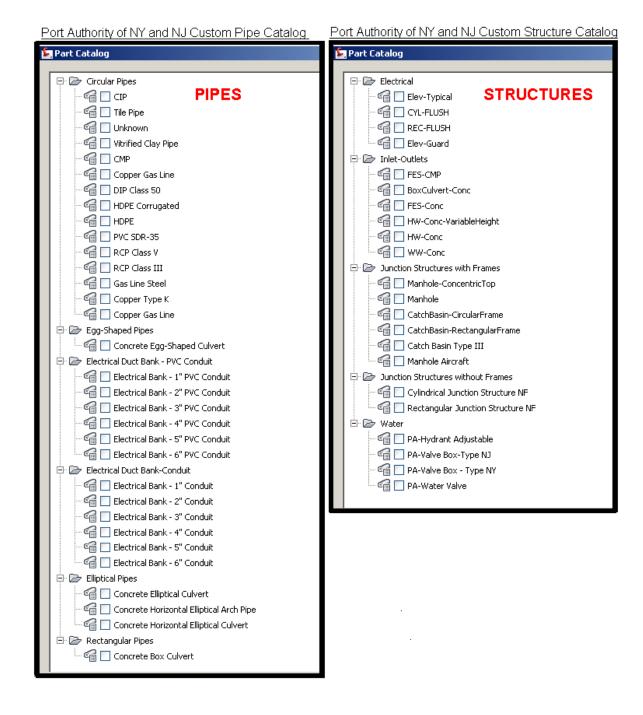
After the catalogs have been set to **Port Authority of NY and NJ Custom Catalog**, Pipe Network parts lists can be created and edited using these custom Port Authority parts.

To create or edit parts list, locate or create the part list. Add part families to pipes and structures. Add part sizes for part families as needed or add all sizes.

A complete list and description of pipes can be found at K:\Application\EAD\CAD_Standards\2018\Civil\Pipes Catalog\PA-Pipes\PA-Pipes.htm

A complete list and description of structures can be found at K:\Application\EAD\CAD_Standards\2018\Civil\Pipes Catalog\PA-Structures\PA-Structures.htm





1.22 APPENDIX H – ELECTRICAL DISCIPLINE

1.22.1 CONTENT PREFERENCES

This Section Is Under Construction

1.22.2 LAYER STRATAGEM

1.22.2.1 ELECTRICAL WORK

DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
E	ANNO	BUBL		142	Continuous	Yes	Revision Bubble
Е	ANNO	CHNG		7	Continuous	Yes	Identification of Updated Work
E	ANNO	DIMS		7	Continuous	Yes	Dimensions
E	ANNO	IDEN		2	Continuous	Yes	Identification Text
E	ANNO	MLIN		142	MATCHLINE	Yes	Match Lines
E	ANNO	NPLT		170	Continuous	No	Construction and Reference Lines
E	ANNO	TEXT		2	Continuous	Yes	Annotations and Callouts
E	ANNO	TITL		6	Continuous	Yes	Titles
E	ANNO	TTLB		130	Continuous	Yes	Contract Border
E	ANNO	VPRT		130	Continuous	No	View Port
E	DETL	EXTR		6	Continuous	Yes	Exterior Detail Lines
E	DETL	HDWR		7	Continuous	Yes	Hardware Detail Lines
E	DETL	HIDN		8	HIDDEN2	Yes	Hidden Detail Lines
E	DETL	INTR		170	Continuous	Yes	Interior Detail Lines
E	DETL	MISC		7	Continuous	Yes	Miscellaneous Detail Lines
E	DETL	PATT		252	Continuous	Yes	Detail Hatches
E	DETL	TEXT		2	Continuous	Yes	Detail Annotations
E	FIRE	ALDL		170	Continuous	Yes	ALDL Devices - Smoke Detectors and Other Input Devices
E	FIRE	SPKR		40	Continuous	Yes	Fire System Speaker
E	FIRE	STRB		170	Continuous	Yes	Fire System Strobes
E	FIRE	CABL		170	Continuous	Yes	Fire Alarm Cables
E	GNRL			3	Continuous	Yes	General Features
E	GNRL	BKGD		253	Continuous	Yes	General Background Features
E	GNRL	DETL		200	Continuous	Yes	General Details
E	GNRL	ENCL		170	Center	Yes	Enclosures
E	GNRL	IDEN		2	Continuous	Yes	Identification Tags
E	GNRL	FEN_		3	Continuous	Yes	Fence Line
E	CATH			6	Continuous	Yes	Corrosion Protection Features
E	CATH	TEXT		2	Continuous	Yes	Corrosion Protection Annotations
E	LITE	FIXT		6	Continuous	Yes	Light Fixtures
E	LITE	SITE		142	Continuous	Yes	Site Lighting
E	LITE	WHIP		11	Whip	Yes	Fixture Whip Connections
E	LITE	EXTR		6	Continuous	Yes	Exterior Features
E	LITE	HDWR		7	Continuous	Yes	Hardware Features
E	LITE	HIDN		8	HIDDEN2	Yes	Hidden Features
E	LITE	INTR		142	Continuous	Yes	Interior Features
E	LITE	MISC		7	Continuous	Yes	Miscellaneous Lines
E	LITE	PATT		252	Continuous	Yes	Lighting Hatches
E	LITE	TEXT		2	Continuous	Yes	Lighting Annotations
E	POWR	CIRC		3	Continuous	Yes	Conduit and Wiring
E	POWR	CIRC	HEAT	3	HTRACE	Yes	Heat Trace
E	POWR POWR	DEVC DUCT		170 200	Continuous Center	Yes Yes	Electrical Devices Under Floor Duct
E	UGND	5KV		3	5KV		
E	UGND	13KV		3	13.8KV	Yes Yes	Underground 5KV Ductbank Underground 13KV Ductbank
E	UGND	27KV		170	27KV	Yes	Underground 27KV Ductbank
E	UGND	OUTS		7	OS	Yes	Underground 27KV Ductbank Underground Out of Service Items
E	UGND	COMM		3	C C	Yes	Underground Communication
E	UGND	DEVC		170	Continuous	Yes	Underground Device
E	UGND	FIBR		3	FO		Underground Fiber Optic
E	UGND	FIBR		3 170	FO	Yes Yes	Underground Fiber Optic
	UGND	GRND		3	GND	Yes	Underground Ground Conductor



Ш	UGND	PCOM	140	PC	Yes	Underground Power Communication
Е	UGND	POWR	142	Р	Yes	Underground Power
Е	UGND	PSEG	3	PSEG	Yes	Underground PSE&G Ductbank
Ш	UGND	WIRE	20	Continuous	Yes	Underground Wire
Е	XREF		7	Continuous	Yes	Xref Insertion

1.22.3 LINETYPES

Name	Description		Exa	mple	
13.8KV		13.8KV	——— 13.8KV ———	13.8KV	——————————————————————————————————————
27KV		27кv	27кv	27кv	27KV
CENTER	Centerline (1x)				
Continuous	Continuous				
FA		FA	——— FA ———	——— FA ———	——— FA ————
FO		FO	FO	FO	FO
HIDDEN2	Hidden (0.50x)				
HIDDEN4	Hidden (0.25x)				
HTRACE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			·····
MATCHLINE					
OS			— OS ———	OS -	
Ρ		P	P	P	P
PC		P,C	——— P,C ———	——— P,C ———	P,C
PSEG		PSEG	PS	SEG	- PSEG
REMOVAL					
REIVIOVAL					
REMOVAL					
REMOVAL1					



1.22.4 SYMBOLS

1.22.4.1 BLOCK DIAGRAMS

Symbol	Block Name	Layer Name	Description
••	TSS001.dwg	E-LITE-SITE	Overhead Sign Structure
° <u>⊤</u> °	TSS002.dwg	E-GNRL-EXST	Overhead Sign Structure – Removal to Remain
	TSS04.dwg	E-LITE-SITE	Ground-Mounted Sign Structure
	TSS05.dwg	E-GNRL-EXST	Ground-Mounted Sign Structure – Removal to Remain
	TSS07.dwg	E-GNRL-DETL	Sign Structure Identification
↑ ? •	TSS08.dwg	E-LITE-SITE	Traffic Signal Standard
Ĥ ? o	TSS09.dwg	E-GNRL-EXST	Traffic Signal Standard – Removal to Remain
••	TSS11.dwg	E-LITE-SITE	Traffic Signal Post – Top-Mounted
	TSS12.dwg	E-GNRL-EXST	Traffic Signal Post – Top-Mounted – Removal to Remain
?◀	TSS14.dwg	E-LITE-SITE	Vehicular Traffic Signal Head
	TSS15.dwg	E-POWR-DEVC	Traffic Signal Control Cabinet
	TSS15_1.dwg	E-POWR-DEVC	Traffic Signal Control Cabinet
?/	TSS15_2.dwg	E-GNRL-DETL	Cabinet Identification

$\mathbf{x} \mathbf{x}$	TSS16.dwg	E-GNRL-EXST	Traffic Signal Control Cabinet – Removal to Remain
	TSS18.dwg	E-POWR-DEVC	Variable Message Sign Control Cabinet
	TSS19.dwg	E-GNRL-EXST	Variable Message Sign Control Cabinet – Removal to Remain
(XXXX)	IR007.dwg	E-GNRL-DETL	Transformer Fault Pressure Relay
CS	IR015.dwg	E-POWR-CIRC	Breaker Control Switch

1.22.4.2 FIRE			
Symbol	Block Name	Layer Name	Description
S XXX-XXX	FAS001.dwg	E-FIRE-ALDL	Ceiling Mounted Smoke Detector
H XXX-XXX	FAS002.dwg	E-FIRE-ALDL	Fire Alarm Heat Detector
D XXX-XXX	FAS003.dwg	E-FIRE-ALDL	Duct Smoke Detector
	FAS004.dwg	E-FIRE-STRB	Duct Smoke Detector (with line segment)
?	FAS005.dwg	E-FIRE-STRB	Wall-Mounted Fire Alarm Strobe
D	FAS006.dwg	E-FIRE-SPKR	Fire Alarm Dry Pipe Sprinkler Alarm System Cabinet
S ? ?	FAS007.dwg	E-FIRE-SPKR	Wall-Mounted Fire Alarm Speaker/Strobe

TR	FAS018.dwg	E-FIRE-SPKR	Fire Alarm Horn
TĐ	FAS017.dwg	E-POWR-DEVC	Solenoid Valve
	FAS016.dwg	E-FIRE-ALDL	Terminal Strip Cabinet
WT	FAS015.dwg	E-FIRE-ALDL	Tenant Fire Alarm Amplifier
TS	FAS014.dwg	E-FIRE-ALDL	Existing Valve Supervisory (Tamper) Switch
FS	FAS013.dwg	E-FIRE-ALDL	Existing Waterflow Switch
F	FAS012.dwg	E-FIRE-ALDL	Manual Fire Alarm Box
E.O.L.	FAS011.dwg	E-FIRE-ALDL	End of Line
1/2W	FAS010.dwg	E-FIRE-ALDL	Wall-Mounted Fire Alarm Speaker (1/2W)
1/2/V S	FAS009.dwg	E-FIRE-ALDL	Ceiling-Mounted Fire Alarm Speaker (1/2W)
H?	FAS008.dwg	E-ANNO-TEXT	Wall-Mounted Heat Detector Speaker/Strobe

IM	FAS019.dwg	E-FIRE-ALDL	Existing File Alarm Isolation Module
ATC	FAS020.dwg	E-POWR-DEVC	Automatic Transfer Control
TA	FAS021.dwg	E-FIRE-ALDL	Flow Switch
Y X	FAS022.dwg	E-FIRE-ALDL	SO
×	FAS023.dwg	E-POWR-DEVC	Transformer
	FAS024.dwg	E-FIRE-ALDL	ТІВ
ST	FAS025.dwg		Shunt Trip
PAD	FAS026.dwg		
FS	FAS027.dwg		Existing Waterflow Switch
SD	FAS028.dwg		Smoke Damper

	FAS029.dwg	120AC/24DC Transformer
TIB	FAS030.dwg	
CM	FAS031.dwg	Fire Alarm Control Module
MM	FAS032.dwg	Fire Alarm Monitor Module
FS	FAS033.dwg	Flow Switch
TS	FAS034.dwg	Tamper Switch
RTS	FAS035.dwg	Fire Alarm Remote Test Station
LOC	FAS036.dwg	Local Operation Console
RGA	FAS037.dwg	Remote Graphic Annunciator
APS	FAS038.dwg	Auxiliary Power Supply
FFT	FAS039.dwg	Firefighter Telephone
GMP	FAS040.dwg	Generator Monitoring and Control Panel

SCP	FAS041.dwg	Firefighters Smoke Control Panel
KEY	FAS042.dwg	Smoke Purge Key Switch
FACP	FAS043.dwg	Fire Alarm Control Panel
UIO2	FAS044.dwg	Universal Input/Output Module Motherboard (2 Module)
UIO6	FAS045.dwg	Universal Input/Output Module Motherboard (6 Module)
EOLR	FAS046.dwg	End of Line Resistor
FS	FAS047.dwg	Flow Switch

1.22.4.3 AVIATION LIGHTING

Symbol	Block name	Layer Name	Description
	Aer010.dwg	E-LITE-SITE	Runway/Taxiway Light
	Aer012.dwg	E-LITE-SITE	L-861-T Elevated Blue Taxiway Edge Light on Type "I" Marker Light Box
	Aer013.dwg	E-GNRL-EXST	Removal Elevated Blue Taxiway Edge Light to be Adjusted to Finished Grade
	Aer014.dwg	E-GNRL-EXST	Removal Runway/Taxiway Elevated Edge Light on Type "I" Marker Light Box
\bigcirc	Aer015.dwg	E-LITE-SITE	L-852 Type IV Flush Taxiway Centerline Light Fed by Flexible Conduit in Removal Pavement
	Aer016.dwg	E-LITE-SITE	L-852 Type IV Flush Taxiway Centerline Light Fed by Encased PVC Conduit
	Aer017.dwg	E-LITE-SITE	L-852 Type IV Flush Taxiway Centerline Light Mounted on a L-868 Double Section Base Can Fed by Grout Encased PVC-H Conduit in Pavement
\bigcirc	Aer019.dwg	E-GNRL-EXST	Removal Type IV Taxiway Centerline Lighting Fixture to be Adjusted to Finished Grade via a Variable Extension Can
	Aer020.dwg	E-LITE-SITE	Omni-Directional Fixture Mounted on a L- 868 Single Section Base Can in Removal or Overlay Pavement
$\mathbf{r}^{\mathbf{r}}$	Aer021.dwg	E-LITE-SITE	L-861-T Elevated Taxiway Edge Light Mounted on a L-867 Single Section Base Can
	Aer021_1.dwg	E-LITE-SITE	Centerline Light
\square	Aer022.dwg	E-GNRL-EXST	Removal L-861-T Elevated Taxiway Edge Light Mounted on a L-867 Single Section Base Can
	Aer023.dwg	E-LITE-SITE	Adjust L-861-T Elevated Taxiway Edge Light Mounted on a L-867 Single Section Base Can to Finished Grade

	Aer024.dwg	E-LITE-SITE	Internally-Illuminated Single-Face Taxiway
ZB	Aer024_1.dwg	E-LITE-SITE	The Sign Number
	Aer024_2.dwg	E-GNRL-DETL	The Sign Number 2
	Aer025.dwg	E-LITE-SITE	Internally Illuminated Double Face Taxiway Guidance Sign
	Aer026.dwg	E-POWR-DEVC	Elevated Retro reflective Taxiway Marker
0 QQQ+0	Aer027.dwg	E-LITE-SITE	High-Intensity Hold Bar
	Aer028.dwg	E-LITE-SITE	L-850C Flush Runway Edge Light Mounted on a L-868 Single-Section Base Can
	Aer034.dwg	E-LITE-SITE	Runway/Taxiway Fixture
	Aer035.dwg	E-GNRL-EXST	Removal Electrical Communication Manhole
	Aer037.dwg	E-GNRL-EXST	Removal Flush Taxiway or Runway Centerline Fixture to Remain
	Aer038.dwg	E-GNRL-EXST	Removal Flush Runway Edge Light
	Aer040.dwg	E-GNRL-EXST	Removal Internally-Illuminated Single-Face Taxiway Guidance Sign
	Aer041.dwg	E-GNRL-EXST	Removal Flush Taxiway Omni directional Fixture
	Aer042.dwg	E-GNRL-EXST	Removal Flush Taxiway Omni directional Fixture – Removal

	Aer043.dwg	E-GNRL-RMVL	Removal Type "I" Marker Light Box, Including Fixture, Transformers, and Base Plates – Removals
$\bigcirc_{?}$	Aer044.dwg	E-GNRL-RMVL	Removal Taxiway Centerline Fixture – Removal
?>	Aer050.dwg	E-GNRL-DETL	Number Designation for Cross-References with Wiring Diagram
(s)	Aer051.dwg	E-UGND-DEVC	Splice Box for Sensor Cable
\mathbf{O}	Aer053.dwg	E-UGND-DEVC	Removal Runway Surface Sensor to be Replaced
	Aer055.dwg	E-GNRL-EXST	Removal Double-Obstruction Light
	Aer056.dwg	E-GNRL-EXST	Removal Single-Obstruction Light
	Aer057.dwg	E-LITE-SITE	L-810 Double-Obstruction Light
	Aer058.dwg	E-LITE-SITE	L-810 Single-Obstruction Light
	Aer059.dwg	E-POWR-DEVC	Wind Cone
	Aer060.dwg	E-LITE-SITE	Flush Approach Light Bar by the FAA
E E	Aer061.dwg	E-LITE-SITE	Runway Touchdown Zone Light Bar
	Aer064.dwg	E-LITE-SITE	Adjust the Removal Internally-Illuminated Single-Face Taxiway Guidance Sign and Foundation to Finished Grade
	Aer067.dwg	E-GNRL-EXST	Removal Internally-Illuminated Double- Face Taxiway Guidance Sign

Aer068.dwg	E-LITE-SITE	Adjust the Removal Internally-Illuminated Double-Face Taxiway Guidance Sign and Foundation to Finished Grade
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1.22.4.4 LIGHTING FIXTURES

LIGHTING FIXTUR Symbol	Block name	Layer Name	Description
?	Ltg001.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x4' Fluorescent Lighting Fixture
?	Ltg002.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x4' Emergency Fluorescent Lighting Fixture
?	Ltg003.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x4' Fluorescent Fixture with Internal Emergency Battery
<u>ر</u>	Ltg004.dwg	E-LITE-FIXT	Wall-Mounted 1'x4' Fluorescent Fixture
?	Ltg005.dwg	E-LITE-FIXT	Wall-Mounted 1'x4' Fluorescent Fixture
<u>?</u> 	Ltg006.dwg	E-LITE-FIXT	Wall-Mounted 1'x4'Fluorescent Fixture with Internal Emergency Battery
; ;	Ltg007.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x8' Fluorescent Fixture
3	Ltg008.dwg	E-LITE-FIXT	Ceiling-Mounted Emergency Fluorescent Fixture
?	Ltg009.dwg	E-LITE-FIXT	Ceiling-Mounted Fluorescent Fixture with Internal Emergency Battery
?	Ltg010.dwg	E-LITE-FIXT	Ceiling-Mounted Continuous Fluorescent Fixture
: مىست <u>مىسمى</u> ،	Ltg011.dwg	E-LITE-FIXT	Ceiling-Mounted Continuous Fluorescent Slot Washer
?	Ltg012.dwg	E-LITE-FIXT	Ceiling-Mounted 2'x4' Fluorescent Fixture

?	Ltg013.dwg	E-LITE-FIXT	Ceiling-Mounted 2'x4' Emergency Fluorescent Fixture
?	Ltg014.dwg	E-LITE-FIXT	Ceiling-Mounted Fluorescent Fixture with Internal Emergency Battery
<u>?</u> ?	Ltg015.dwg	E-LITE-FIXT	Ceiling-Mounted 2'x2' Fluorescent Fixture
	Ltg016.dwg	E-LITE-FIXT	Ceiling-Mounted 2'x2' Emergency Fluorescent Fixture
	Ltg017.dwg	E-LITE-FIXT	Ceiling-Mounted 2'x2' Fluorescent Fixture with Internal Emergency Battery
	Ltg018.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x2' Fluorescent Fixture
?	Ltg019.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x2' Fluorescent Wall Washer
?	Ltg020.dwg	E-LITE-FIXT	Ceiling-Mounted Fluorescent Fixture
	Ltg021.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x1' Compact Fluorescent Down light
	Ltg022.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x1' Compact Fluorescent
? ↓ h ?	Ltg023.dwg	E-LITE-FIXT	Ceiling-Mounted 1'x1' Compact Fluorescent Down light with Internal Emergency Battery
\bigcirc	Ltg024.dwg	E-LITE-FIXT	Lighting Fixture
?	Ltg025.dwg	E-LITE-FIXT	Recessed Lighting Fixture, Partial Exposure
	Ltg026.dwg	E-LITE-FIXT	Lighting Fixture

?	Ltg027.dwg	E-LITE-FIXT	Recessed Lighting Fixture, Large
? •?	Ltg028.dwg	E-LITE-FIXT	Recessed Lighting Fixture, Small
$\bigcirc_{?}$	Ltg029.dwg	E-LITE-FIXT	Recessed Lighting Fixture
$\bigcirc^?$	Ltg030.dwg	E-LITE-FIXT	Lighting Fixture
	Ltg031.dwg	E-LITE-FIXT	Lighting Fixture
?	Ltg032.dwg	E-LITE-FIXT	Wall-Mounted Lighting Fixture
	Ltg033.dwg	E-LITE-FIXT	Surface-Mounted Hid Fixture
	Ltg034.dwg	E-LITE-FIXT	Surface-Mounted Hid Fixture 2
? ·	Ltg035.dwg	E-LITE-FIXT	Fluorescent Strip
	Ltg036.dwg	E-LITE-FIXT	Track-Mounted Adjustable Fixtures
×× ?	Ltg037.dwg	E-LITE-FIXT	Emergency Batter Pack Lights
	Ltg038.dwg	E-LITE-FIXT	Ceiling-Mounted Exit Signs with Directional Arrow
	Ltg039.dwg	E-LITE-FIXT	Ceiling-Mounted Exit Signs with Directional Arrow 2
v €↓	Ltg040.dwg	E-LITE-FIXT	Ceiling-Mounted Exit Signs with Directional Arrow 3

	Ltg041.dwg	E-LITE-FIXT	Ceiling-Mounted Exit Signs with Directional Arrow 4
	Ltg042.dwg	E-LITE-FIXT	Wall-Mounted Outdoor Fixture
	Ltg043.dwg	E-LITE-FIXT	Wall-Mounted Outdoor Fixture 2
	Ltg044.dwg	E-LITE-FIXT	Wall-Mounted Outdoor Fixture 3
?	Ltg045.dwg	E-LITE-FIXT	Wall-Mounted Outdoor Fixture 4
?	Ltg046.dwg	E-LITE-FIXT	High-Mast Lighting Assembly Type
	Ltg047.dwg	E-LITE-FIXT	High-Mast Lighting Assembly Type 2
? • • • • • • • •	Ltg048.dwg	E-LITE-FIXT	High-Mast Lighting Assembly Type 3
?	Ltg049.dwg	E-LITE-FIXT	Floodlight Pole Lighting Assembly
?	Ltg050.dwg	E-LITE-FIXT	Floodlight Pole Lighting Assembly
· · · · · · · · · · · · · · · · · · ·	Ltg051.dwg	E-LITE-FIXT	Single-Arm Roadway Lighting Standard
?	Ltg052.dwg	E-LITE-FIXT	Remove Single-Arm Roadway Standard
	Ltg053.dwg	E-LITE-FIXT	Relocated Single-Arm Roadway Lighting Standard Removal Location
?	Ltg054.dwg	E-LITE-FIXT	Relocated Single-Arm Roadway Lighting Standard New Location

?	Ltg055.dwg	E-LITE-FIXT	Double-Arm Roadway Lighting Standard
?	Ltg056.dwg	E-LITE-FIXT	Remove Double-Arm Roadway Lighting Standard
?	Ltg057.dwg	E-LITE-FIXT	Relocate Double-Arm Roadway Lighting Standard Removal Location
?	Ltg058.dwg	E-LITE-FIXT	Relocated Double-Arm Roadway Lighting Standard New location
•	Ltg059.dwg	E-LITE-FIXT	Single-Arm Roadway Lighting Standard
?	Ltg060.dwg	E-LITE-FIXT	Remove Single-Arm Roadway Lighting Standard
· · · · · · · · · · · · · · · · · · ·	Ltg061.dwg	E-LITE-FIXT	Relocate Single-Arm Roadway Lighting Standard Removal Location
	Ltg062.dwg	E-LITE-FIXT	Relocated Single-Arm Roadway Lighting Standard New Location
? • • •	Ltg063.dwg	E-LITE-FIXT	Double-Arm Roadway Lighting Standard
	Ltg064.dwg	E-LITE-FIXT	Remove Double-Arm Roadway Lighting Standard
•••• _?	Ltg065.dwg	E-LITE-FIXT	Relocate Double-Arm Roadway Lighting Standard Removal Location
? ••••?	Ltg066.dwg	E-LITE-FIXT	Relocated Double-Arm Roadway Lighting Standard New Location
·?	Ltg067.dwg	E-LITE-FIXT	Single-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg068.dwg	E-LITE-FIXT	Remove Single-Arm Pole-Mounted Sharp Cut-Off Luminaire

?	Ltg069.dwg	E-LITE-FIXT	Relocate Single-Arm Pole-Mounted Sharp Cut-Off Luminaire (Removal Location)
? •?	Ltg070.dwg	E-LITE-FIXT	Relocated Single-Arm Pole-Mounted Sharp Cut-Off Luminaire (New Location)
•	Ltg071.dwg	E-LITE-FIXT	Single-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg072.dwg	E-LITE-FIXT	Remove Single-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg073.dwg	E-LITE-FIXT	Relocate Single-Arm Pole Mounted Sharp Cut-Off Luminaire (Removal Location)
? • •	Ltg074.dwg	E-LITE-FIXT	Relocated Single-Arm Pole-Mounted Sharp Cut-Off Luminaire
•[] ?	Ltg075.dwg	E-LITE-FIXT	Sinle0Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg076.dwg	E-LITE-FIXT	Remove Single-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg077.dwg	E-LITE-FIXT	Relocate Single-Arm Pole-Mounted Sharp Cut-Off Luminaire (Removal Location)
? •-□] ?	Ltg078.dwg	E-LITE-FIXT	Relocated Single-Arm Pole-Mounted Sharp Cut-Off Luminaire (New Location)
?	Ltg079.dwg	E-LITE-FIXT	Double-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg080.dwg	E-LITE-FIXT	Remove Double-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg081.dwg	E-LITE-FIXT	Relocate Double-Arm Pole-Mounted Sharp Cut-Off Luminaire (Removal Location)
? ■- ●- ■ ?	Ltg082.dwg	E-LITE-FIXT	Relocated Double-Arm Pole-Mounted Sharp Cut-Off Luminaire (New Location)

?	Ltg083.dwg	E-LITE-FIXT	Double-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg084.dwg	E-LITE-FIXT	Remove Double-Arm Pole-Mounted Sharp Cut-Off Luminaire
?	Ltg085.dwg	E-LITE-FIXT	Relocate Double-Arm Pole-Mounted Sharp Cut-Off Luminaire (Removal Location)
?	Ltg086.dwg	E-LITE-FIXT	Relocated Double-Arm Pole-Mounted Sharp Cut-Off Luminaire (New Location)
?	Ltg087.dwg	E-LITE-FIXT	Double-Arm Pole-Mounted Sharp Cut-Off Luminaire
	Ltg088.dwg	E-LITE-FIXT	Remove Double-Arm Pole Mounted Sharp Cut-Off Luminaire
	Ltg089.dwg	E-LITE-FIXT	Relocate Double_Arm Pole Mounted Sharp Cut-Off Luminaire (Removal Location)
? ?	Ltg090.dwg	E-LITE-FIXT	Relocated Double-Arm Pole-Mounted Sharp Cut-Off Luminaire (New Location)
°.	Ltg091.dwg	E-LITE-FIXT	Yoke-Mounted HID Floodlight
PH-?	Ltg092.dwg	E-LITE-FIXT	Yoke-Mounted HID Floodlight 2
?	Ltg093.dwg	E-LITE-FIXT	Yoke-Mounted HID Floodlight 3
?	Ltg101.dwg	E-LITE-FIXT	Exit Sign – Single Face
₹ ?	Ltg102.dwg	E-LITE-FIXT	Exit Sign – Single Face, Exit to West
?	Ltg103.dwg	E-LITE-FIXT	Exit Sign – Single Face, Exit to East

	Ltg104.dwg	E-LITE-FIXT	Exit Sign – Double-Faced
 ?	Ltg105.dwg	E-LITE-FIXT	Exit Sign – Double-Faced, Exit to East
	Ltg106.dwg	E-LITE-FIXT	Wall-Mounted Exit Sign, Single Face
	Ltg107.dwg	E-LITE-FIXT	Wall-Mounted Exit Sign, Single Face, Exit to West
?	Ltg108.dwg	E-LITE-FIXT	Wall-Mounted Exit Sign, Single Face, Exit to East
1 €	Ltg109.dwg	E-LITE-FIXT	Wall-Mounted Exit Sign, Single Face, Double-Faced

1.22.4.5 SWITCHES

Symbol Block name		Layer Name	Description
\$	Swt001.dwg	E-POWR-DEVC	Switch
\$3	Swt002.dwg	E-POWR-DEVC	3-Way Switch
\$ [?]	Swt003.dwg	E-POWR-DEVC	4-Way Switch
\$?	Swt004.dwg	E-POWR-DEVC	Dimmer Switch
\$P	Swt005.dwg	E-POWR-DEVC	Switch
? \$K	Swt006.dwg	E-POWR-DEVC	Switch
\$3	Swt007.dwg	E-POWR-DEVC	3-Way Dimmer Switch

PS T	Swt008.dwg	E-POWR-DEVC	Manual Motor Starting Switch with Thermal Overload Protection and Pilot Light
? St	Swt009.DWG	E-POWR-DEVC	Manual Motor Starting Switch with Thermal Overload Protection
? S ?	Swt009A.DWG	E-POWR-DEVC	Switch
	Swt009B.DWG	E-POWR-DEVC	Switch
M ?	Swt009C.DWG	E-POWR-DEVC	Switch
P_{D} ?	Swt009D.DWG	E-POWR-DEVC	Switch
♦ ?	Swt009E.DWG	E-POWR-DEVC	Switch

1.22.4.6 MISCELLANEOUS

 T.O MISCELLANEOUS				
Symbol	Block name	Layer Name	Description	
	Bubble2.dwg	E-ANNO-DIMS	Leader Bubble	
	BUBBLE3.dwg	E-ANNO-DIMS	Elongated Leader Bubble	
\square	Mis011.dwg	E-RVSN-SYMB	Revision Tag	
Revision.dwg		E-ANNO-DIMS	Revision Table	
1	Sign-p.dwg	E-ANNO-TTLB	Signature Stamp	
	Mis041.dwg	0	Circuit Breaker Panel	

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Mis042.dwg	0	Power Panel
	Mis043.dwg	0	Circuit Breaker Panel R/C Controlled
	Mis044.dwg	0	Distribution Panel
	Mis045.dwg	0	Motor Control Panel
	Mis057.dwg	0	Transformer Schedule
	Mis058.dwg	0	Metal-Clad Switch Gear Schedule
Unit weight and an an and a method weight weight and a method weight of the second sec	Mis059.dwg	0	Medium-Voltage Interrupter Schedule
	Mis060.dwg	0	Cable and Conduit Schedule
	Mis061.dwg	0	Lighting Fixture Schedule
D D# SHT#	Ele-DET-SYMB.dwg	(Varies)	Detail Symbol
??	lr001.dwg	E-POWR-CIRC	Regulating Device
KWM	lr002.dwg	E-POWR-CIRC	Kilowatt-Hour Meter
??	lr003.dwg	E-POWR-CIRC	Instrument Switch, Test Block or Transducer
TB ?	lr004.dwg	E-POWR-CIRC	Instrument Switch, Test Block or Transducer 2

50	lr005.dwg	E-POWR-CIRC	Time Overcurrent Relay with Instantaneous Trip Attachment
(51G)	lr006.dwg	E-POWR-CIRC	Time Overcurrent Ground Relay for All 50, 51, and 50/51 Relays.
	lr007.dwg	E-POWR-CIRC	Transformer Fault Pressure Relay
XXXX	lr008.dwg	E-POWR-CIRC	Transformer Sudden Pressure Relay
CS-T	lr010.dwg	E-POWR-CIRC	Control Switch Trip
43 	lr012.dwg	E-POWR-CIRC	Control Switch Remote – Local
<u>?</u>	Ir013.dwg	E-POWR-CIRC	Indicator Light
	Ir014.dwg	E-POWR-CIRC	Lamp Test Relay
SI	Ir016.dwg	E-POWR-CIRC	Scada System Indication Function
SC	lr017.dwg	E-POWR-CIRC	Scada System Control Function
SSM	Ir018.dwg	E-POWR-CIRC	Solid-State Metering
	lr019.dwg	E-POWR-CIRC	Annunciator
?	lr020.dwg	E-POWR-CIRC	Instrument
	lr021.dwg	E-POWR-CIRC	Instrument

$\langle \chi \rangle$	Mis001.dwg	E-GNRL-DETL	Equipment Designation
	Mis004.dwg	E-POWR-DEVC	Pull Box
	Mis005.dwg	E-POWR-DEVC	Push Button
CCTV <	Mis006.dwg	E-POWR-DEVC	Closed-Circuit TV Camera
	Mis007.dwg	E-POWR-DEVC	Closed-Circuit TV Camera 2
?	Mis008.dwg	E-POWR-DEVC	Special System Device
	Mis010.dwg	E-POWR-DEVC	Aqua Stat
	Mis012.dwg	E-GNRL-DETL	Circle or Column Tag
	Mis013.dwg	E-GNRL-DETL	Section Arrows
BG	Mis023.dwg	E-POWR-DEVC	Break Glass Station
DH	Mis024.dwg	E-POWR-DEVC	Electromagnetic Door Holder
	Mis035.dwg	E-ANNO-DIMS	Arrowhead
\sum	Mis036.dwg	E-POWR-CIRC	Conduit/Line Break
	Mis037.dwg	E-ANNO-DIMS	Bracket

	Mis049.dwg	E-GNRL-DETL	Section
PRELIMINARY ?	Mis050.dwg	E-ANNO-TTLB	Preliminary Stamp
?	Mis051.dwg	E-ANNO-TTLB Submission Stamp	
CERTIFIED "AS BUILT" (MIE) (K CONCED FLS EXMING) MIENTE MIENT MIE	Mis052.dwg	E-ANNO-TTLB	As-Built Stamp
	Mis053.dwg	E-GNRL-CIRC	Conduit Break
FIRST_LINE SECOND_LINE	Mis056.dwg	E-GNRL-DETL	Section Title
TVSS	Mis070.dwg	E-POWR-DEVC	TVSS
	Mis071.dwg	E-POWR-DEVC	Reflector
	WALLBREAK.dwg	E-GNRL-DETL	Wall Break

1.22.4.7 ONE LINE

Symbol	Block name	Layer Name	Description
	Cds001.dwg	E-POWR-CIRC	Instantaneous Contact, NO
	Cds002.dwg	E-POWR-CIRC	Instantaneous Contact, NC
-~~~;	Cds003.dwg	E-POWR-CIRC	"On Delay" Timer Contact, NO Time Open
-0	Cds004.dwg	E-POWR-CIRC	"On Delay" Timer Contact, NC Time Open

- , , , ,	Cds005.dwg	E-POWR-CIRC	"Off Delay" Timer Contact, NO Time Open
	Cds006.dwg	E-POWR-CIRC	"Off Delay" Timer Contact, NC Time Closed
-0/	Cds007.dwg	E-POWR-CIRC	Limit Switch Contact, NO
-0-710-	Cds008.dwg	E-POWR-CIRC	Limit Switch Contact, NC
-0	Cds009.dwg	E-POWR-CIRC	Limit Switch Contact NO Held Closed
?	Cds010.dwg	E-POWR-CIRC	Limit Switch Contact NC Held Open
	Cds011.dwg	E-POWR-CIRC	Momentary Contact Push Button, NO
· · · -0	Cds012.dwg	E-POWR-CIRC	Momentary Contact Push Button, NC
$D \neq 0$	Cds013.dwg	E-POWR-CIRC	Pressure Switch Contact, NO
	Cds014.dwg	E-POWR-CIRC	Pressure Switch Contact, NC
	Cds015.dwg	E-POWR-CIRC	Level Switch Contact, NO
-0-10-	Cds016.dwg	E-POWR-CIRC	Level Switch Contact, NC
-0-1	Cds017.dwg	E-POWR-CIRC	Flow Switch Contact, NO
-0-10-	Cds018.dwg	E-POWR-CIRC	Flow Switch Contact, NC

- ~ / /	Cds019.dwg	E-POWR-CIRC	Temperature Switch, NO
-0- <u>5</u> 0- 5	Cds020.dwg	E-POWR-CIRC	Temperature Switch, NC
-0-//-0-	Cds021.dwg	E-POWR-CIRC	Solenoid
	Cds022.dwg	E-POWR-CIRC	Operating Coil
HAND OFF AUTO	Cds023.dwg	E-POWR-CIRC	3-Position Selector Switch
ON OFF	Cds024.dwg	E-POWR-CIRC	2-Position Selector Switch
?	Cds025.dwg	E-POWR-CIRC	Fuse
	Cds027.dwg	E-POWR-CIRC	Thermal Overload Relay
	Cds028.dwg	E-POWR-CIRC	Transformer
~ < < < < < < < < < < < < < < < < < < <	Cds029.dwg	E-POWR-CIRC	Circuit Breaker
	Cds030.dwg	E-POWR-CIRC	Disconnect Switch
	Cds031.dwg	E-POWR-CIRC	Diode
	Cds032.dwg	E-POWR-CIRC	Pilot Light
?	Cds033.dwg	E-POWR-CIRC	Terminal Block

	Sld001.dwg	E-POWR-CIRC	Pothead-Type Cable Termination – Medium Voltage
	Sld002.dwg	E-POWR-CIRC	Cable Termination – Low Voltage
•	Sld003.dwg	E-POWR-CIRC	Stress Cone –Type Cable Termination – Medium Voltage
GT	SId005.dwg	E-POWR-CIRC	Ground and Test Device
	SId006.dwg	E-POWR-CIRC	Ground Terminal Connection
	Sld007.dwg	E-POWR-CIRC	Bus Disconnecting Link
KVA VOLTS Z	Sld010.dwg	E-POWR-CIRC	Power Transformer
VOLTS	Sld010_1.dwg	E-POWR-CIRC	Power Transformer
	Sld011.dwg	E-POWR-CIRC	Power Transformer Automatic Tap Changer
	Sld012.dwg	E-POWR-CIRC	Low Voltage 3-Pole AC Circuit Breaker
	Sld013.dwg	E-POWR-CIRC	Medium Voltage Fused Load Interrupter Switch Manually Operated
SWITCH	Sld014.dwg	E-POWR-CIRC	Ground Connection
	Sld015.dwg	E-POWR-CIRC	Ground Connection
	Sld016.dwg	E-POWR-CIRC	Low Voltage, Fused Switch, 3-Pole U.O.N.

SWITCH	Sld017.dwg	E-POWR-CIRC	Low Voltage, Non-fused Switch, 3-Pole U.O.N.
)FRAME TRIP	Sld018.dwg	E-POWR-CIRC	Low Voltage, Molded Cased Circuit Breaker, 3-Pole U.O.N.
FUSE	Sld019.dwg	E-POWR-CIRC	Fuse
	SId020.dwg	E-POWR-CIRC	Draw Out Device
	SId021.dwg	E-POWR-CIRC	Plug-in Device
	Sld022.dwg	E-POWR-CIRC	Lightning Arrestor
	Sld023.dwg	E-POWR-CIRC	Circuit Device
	Sld024.dwg	E-POWR-CIRC	Neon Indicating Light
SIZE	Sld025.dwg	E-POWR-CIRC	Normally-Open Contact
	Sld025_1.dwg	E-POWR-CIRC	Normally-Closed Contact
	SId025a.dwg	E-POWR-CIRC	Normally-Closed Contact
400 /5 COTTY.	Sld026.dwg	E-POWR-CIRC	Current Transformer
50 _{/5} E	Sld027.dwg	E-POWR-CIRC	Zero-Sequence Current Transformer
·	Sld028.dwg	E-POWR-CIRC	Potential Transformer

•	Sld029.dwg	E-POWR-CIRC	Control Power Transformer
B ₹ AMP.	Sld030.dwg	E-POWR-CIRC	Automatic Transfer Switch, 3- Pole U.O.N.
AMP.	Sld031.dwg	E-POWR-CIRC	Manual Transfer Switch, 3- Pole U.O.N.
2 R ↓ ↓ ↓	Sld032.dwg	E-POWR-CIRC	Medium Voltage Motor Controller, Reduced Voltage, Non-Reversing
	Sld033.dwg	E-POWR-CIRC	Medium Voltage Motor Controller, Reduced Voltage, Non-Reversing
⊥ size?	Sld034.dwg	E-POWR-CIRC	Low Voltage Motor Controller, Full Voltage, Non-Reversing (FVNR), 3-Pole
SIZE?	Sld035.dwg	E-POWR-CIRC	Low Voltage Motor Controller, Full Voltage, Reversing (FVR), 3-Pole
SIZE?	Sld036.dwg	E-POWR-CIRC	Low Voltage Motor Controller, Full Voltage, Two Speed, Non-Reversing (FV-25-NR), 3-Pole
	Sld037.dwg	E-POWR-CIRC	Induction Motor
< ?: →	Sld038.dwg	E-POWR-CIRC	Power Circuit Breaker
	SId039.dwg	E-POWR-CIRC	Battery
— R —	Sld040.dwg	E-POWR-CIRC	Resistor
<pre></pre>	Sld041.dwg	E-POWR-CIRC	Low Voltage Network Protector
G	SId042.dwg	E-POWR-CIRC	Emergency Generator

FUSE AF TRIP AT SST	Sld043.dwg	E-POWR-CIRC	Low Voltage, 3-Pole, Manually-Operated, AC Circuit Breaker
Y O	Ki001.dwg	E-POWR-CIRC	Interlock with Key Held
Y O Z	Ki002.dwg	E-POWR-CIRC	Interlock with Key Removed
Y X Z Y Z Z Y Z Z	Ki003.dwg	E-POWR-CIRC	Multi-Lock Interlock with Keys Removed
Y Z Z Y C Z Z	Ki004.dwg	E-POWR-CIRC	Transfer Interlock
	Ki005.dwg	E-POWR-CIRC	Shows Key Attached to Device with Insulated Chain or Stainless Steel Cable
	Ki006.dwg	E-POWR-CIRC	Detachable Latch or Door Interlocks
	Ki007.dwg	E-POWR-CIRC	Electrical Key Interlock
!!!	Ki008.dwg	E-POWR-CIRC	Electrical Key Interlock
	Ki009.dwg	E-POWR-CIRC	Mechanical Key Interlock

1.22.4.8 Power

_	4.0 FOWER			
	Symbol	Block Name	Layer Name	Description
		Pwr001.dwg	E-POWR-DEVC	480/277V, 3P, 4W Panelboard
		Pwr001A.dwg	E-POWR-DEVC	480/277V, 3P, 4W Panelboard
		Pwr002.dwg	E-POWR-DEVC	Distribution Panelboard or Switchboard
		Pwr003.dwg	E-POWR-DEVC	120/208V, 3P, 4W Panelboard

?	PWR005.DWG	E-POWR-DEVC	Motor Control Center
	PWR006.DWG	E-POWR-DEVC	Fused Disconnect Switch
?	PWR007.DWG	E-POWR-DEVC	Unfused Disconnect Switch
	Pwr008.dwg	E-POWR-DEVC	Combination Motor Starter and Fused Switch
AMP?	Pwr009.dwg	E-POWR-DEVC	Combination Motor Starter and Circuit Breaker
	Pwr010.dwg E-POWR-		Motor Starter
(HP)X	Pwr011.dwg	Pwr011.dwg E-POWR-DEVC	
	Pwr012.dwg	Pwr012.dwg E-POWR-DEVC	
ATS	Pwr013.dwg	E-POWR-DEVC	Automatic Transfer Switch
C	Pwr014.dwg	E-POWR-DEVC Contactor	
XFR	Pwr015.dwg E-POWR-DEVC		Transformer
	Pwr016.dwg	E-POWR-DEVC	Removal 480/277V, 3P, 4W Panelboard
	Pwr016A.dwg	E-POWR-DEVC	Generic Panel
	Pwr017.dwg	E-POWR-DEVC	Existing 120/208V, 3P, 4W Panelboard

VAV-	Pwr018.dwg	E-POWR-DEVC	VAV	
	CAMERA.dwg	E-POWR-DEVC	Camera	
	Out001.dwg	E-POWR-DEVC	Wall-Mounted Telephone	
	Out002.dwg	E-POWR-DEVC	Wall-Mounted Data Outlet	
	Out002A.dwg	E-POWR-DEVC	Wall-Mounted Combination Telephone/Data Outlet	
	Out003.dwg	E-POWR-DEVC	Wall-Mounted TV Outlet	
<u>?</u>	Out004.dwg	E-POWR-DEVC	Wall-Mounted Single Receptacle 20A, 125V, 3W Grounding Type	
φ?	Out005.dwg	E-POWR-DEVC	Wall-Mounted Duplex Convenience Receptacle 15a, 125V, 3W Grounding Type	
X	Out005_1.dwg	E-POWR-DEVC	Wall-Mounted Multiplex Receptacle	
₽?	Out006.dwg	E-POWR-DEVC	Wall-Mounted Quadruplex Receptacle 15a, 125V, 3W Grounding Type	
\bigtriangledown ?	Out007.dwg	Out007.dwg E-POWR-DEVC Special-Purpose		
	Out008.dwg	E-POWR-DEVC	Wall-Mounted Duplex Special-Purpose Receptacle	
-\$?	Out009.dwg	E-POWR-DEVC	Wall-Mounted Clock Receptacle	
	Out010.dwg	E-POWR-DEVC	Floor Telephone Outlet	

	Out011.dwg	E-POWR-DEVC	Floor Data Outlet
	Out011A.dwg	E-POWR-DEVC	Floor Combination Telephone/Data Outlet
?	OUT012.DWG	E-POWR-DEVC	Floor Single Receptacle 20A, 125V, 3W
?	OUT013.DWG	E-POWR-DEVC	Floor Duplex Convenience Receptacle 15A, 125V, 3W Grounding Type Unless Otherwise Noted
?	Out013A.dwg	E-POWR-DEVC	Floor Duplex Convenience Receptacle 15A, 125V, 3W Grounding Type Unless Otherwise Noted
?	Out13B.dwg	E-POWR-DEVC	Floor Duplex Convenience Receptacle 15A, 125V, 3W Grounding Type Unless Otherwise Noted
?	OUT014.DWG	E-POWR-DEVC	Floor Single Special- Purpose Receptacle
?	OUT015.DWG	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet
?	Out016.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?	Out017.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
R	Out018.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?	Out019.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?	Out020.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted

	Out021.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?·	Out022.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?	Out023.dwg	E-POWR-DEVC	Two Gang Floor Duplex Receptacle 15A, 125V, 3W Grounding-Type Telephone Outlet Unless Otherwise Noted
?	OUT041.dwg	E-POWR-DEVC	120V-20A Duplex Receptacle
• ?	Out0051.dwg	E-POWR-DEVC	Ground Fault Receptacle
<pre>?</pre>	Out051.dwg	E-POWR-DEVC	Ground Fault Receptacle
	Out0061.dwg	E-POWR-DEVC	Ground Fault Receptacle
	Pb-desk.dwg	E-POWR-DEVC	Desk-Mounted Push Button

1.22.4.9 UNDERGROUND

I	Symbol	Block Name	Layer Name	Description	
		Ues100.dwg	E-GNRL-DETL	Duct Bank Flag	
-	1-4"	Ues101_1.dwg	Duct Bank Flag 1 Conduit Modify to Suit		
	2-4"	Ues101_2.dwg	Duct Bank Flag 2 Conduit Modify to Suit		
	4-4″ ● ⊗	Ues101_4.dwg	E-GNRL-DETL	Duct Bank Flag 4 Conduit Modify to Suit	

6-4"	Ues101_6.dwg	E-GNRL-DETL	Duct Bank Flag 6 Conduit Modify to Suit	
	Ues013.dwg	E-UGND-EXST	Power Manhole	
	Ues014.dwg	E-UGND-EXST	Removal Power Manhole	
	Ues015.dwg	E-UGND-COMM	Communication Manhole	
	Ues016.dwg	E-UGND-EXST	Removal Communication Manhole	
	Ues017.dwg	E-UGND-POWR	Power Manhole	
	Ues018.dwg	E-UGND-EXST	Removal Power Handhole	
	Ues019.dwg	E-UGND-COMM	Communication Handhole	

1.22.4.10 WIRING

Symbol	Block name	Layer Name	Description	
	Cc0010.dwg	Conduit Turn Up		
? 	E-POWR-CIRC	Conduit Turn Down		
	Cc00202.dwg	E-POWR-CIRC	2 #12	
	Cc00203.dwg	E-POWR-CIRC	3 #12	
	Cc00204.dwg	E-POWR-CIRC	4 #12	

Cc00205.dwg	E-POWR-CIRC	5 #12
Cc00206l.dwg	E-POWR-CIRC	Single Home Run
Cc00206r.dwg	E-POWR-CIRC	Single Home Run
Cc00207I.dwg	E-POWR-CIRC	Two Circuit Home Run
Cc00207r.dwg	E-POWR-CIRC	Two Circuit Home Run
Cc00208I.dwg	E-POWR-CIRC	Three Circuit Home Run
Cc00208r.dwg	E-POWR-CIRC Three Circuit Home	

1.23 APPENDIX I – ENVIRONMENTAL DISCIPLINE

1.23.1 CONTENT PREFERENCES

This Section Is Under Construction

1.23.2 LAYER STRATAGEM

1.23.2.1 ENVIRONMENTAL WORK

N ANNO CHNG 1 Continuous Yes IDENTIFICATION OF UPDATED WORK N ANNO DIMS 1 Continuous Yes WITHSSERT LINES DIM. ARROWHEADDSUISE.ASHES, DIM. TEXT N ANNO KEYN 212 Continuous Yes KEY PLAN N ANNO KEYP 254 Continuous Yes KEY PLAN N ANNO MLIN 4 Matchine Yes MATCH LINE N ANNO MLIN 4 Matchine Yes RENRAL NOTES AND GENERAL N ANNO NET 7 Continuous Yes MERCEX NOTES AND GENERAL N ANNO TEXT 212 Continuous Yes MERCEX NOD ARDOWEADS N ANNO TEXT 212 Continuous Yes MASC AND ARDOWEADS N ANNO TEXT 220 Continuous Yes AADMYEE 31 N ANNO TEXT 220 Continuous Yes	DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
N ANNO DIMS 1 Continuous Yes ARROWHEADS/DTS/LASHES, DIM. TEXT N ANNO KEYN 212 Continuous Yes KEYNTASSOCIATED N ANNO KEYP 254 Continuous Yes KEYP1AN N ANNO MUIN 4 Matchulan Yes KEYP1AN N ANNO NOTE 212 Continuous Yes RECENTANCERAL N ANNO NOTE 212 Continuous Yes READERAL N ANNO SYMB 3 Continuous Yes BODER AND CALLOUTS WITH ASSOC N ANNO TEXT 212 Continuous Yes BODER AND TITE BLOCK LINE WORK N ANNO THE 51 Continuous Yes ACM TYPE H N ASB ACM1 253 Continuous Yes ACM TYPE #3 N ASB ACM2 250 Continuous Yes ACM TYPE #3	Ν	ANNO	CHNG		1	Continuous	Yes	IDENTIFICATION OF UPDATED WORK
N ANNO KEYP 212 Commouse Yes LEADERLINES AND ARROWHEADS N ANNO MLIN 4 Matchline Yes KEY PLAN N ANNO MLIN 4 Matchline Yes MATCH LINE N ANNO NOTE 212 Continuous Yes GENERAL NOTES AND GENERAL N ANNO NOTE 212 Continuous No NONPLOTING GRAPHICS N ANNO SYMB 3 Continuous No NONPLOTING GRAPHICS N ANNO TEXT 212 Continuous Yes MISC.TEXTAND CALLOITS WITH ASSOC. N ANNO TEXT 202 Continuous Yes ACM TYPE #1 N ASB ACM3 252 Continuous Yes ACM TYPE #2 N ASB ACM6 250 Continuous Yes ACM TYPE #3 N ASB ACM6 7 Continuous Yes ACM TYPE #3 <tr< td=""><td>Ν</td><td>ANNO</td><td>DIMS</td><td></td><td>1</td><td>Continuous</td><td>Yes</td><td>ARROWHEADS/DOTS/SLASHES, DIM. TEXT</td></tr<>	Ν	ANNO	DIMS		1	Continuous	Yes	ARROWHEADS/DOTS/SLASHES, DIM. TEXT
N ANNO MLIN 4 Matchine Yes MATCH LINE N ANNO NOTE 212 Continuous Yes MERRAL NOTES AND GENERAL REMARKS N ANNO NPLT 7 Continuous Yes MISC TEXT AND CALLOUTS WITH ASSOC. N ANNO TEXT 212 Continuous Yes MISC TEXT AND CALLOUTS WITH ASSOC. N ANNO TEB 51 Continuous Yes BORDER AND TITLE BLOCK LINE WORK N ANNO VPRT 200 Continuous Yes ACM TYPE #0 N ASB_ ACM1 254 Continuous Yes ACM TYPE #1 N ASB_ ACM2 253 Continuous Yes ACM TYPE #2 N ASB_ ACM3 252 Continuous Yes ACM TYPE #3 N ASB_ ACM4 251 Continuous Yes ACM TYPE #3 N ASB_ ACM6 7 Continuous Yes ACM							Yes	LEADERLINES AND ARROWHEADS
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N ASB ACM4 251 Continuous Yes ACM TYPE #4 N ASB ACM6 250 Continuous Yes ACM TYPE #5 N ASB AIRL 4 Continuous Yes ACM TYPE #6 N ASB BARR 212 Continuous Yes IACM TYPE #6 N ASB CNAD 8 Continuous Yes ISOLATION BARIER N ASB CNAD 8 Continuous Yes ISOLATION AIDS (LADDERS, SCAFFOLDING, EC.) N ASB CONT 212 Continuous Yes CONTAMINENT LIMITS N ASB DECN 212 Continuous Yes DECONTAMINATION UNIT N ASB DECN 212 Continuous Yes DEUPMENT, (NUAS, LIGHTS, F. EXT.) N ASB FLTB 5 Continuous Yes EQUIPMENT, (NUAS, LIGHTS, F. EXT.) N ASB PLAT 1 Continuous Ye								
N ASB ACM5 250 Continuous Yes ACM TYPE #5 N ASB ARL 7 Continuous Yes ACM TYPE #6 N ASB BARR 212 Continuous Yes IRLOCK N ASB BARR 212 Continuous Yes ISOLATION BARRIER N ASB CNAD 8 Continuous Yes CONTFUCTION AIDS (LADDERS, SCAFFOLDING, EC.) N ASB CONT 3 DashDot2 Yes CONTAMINATION INDS (LADDERS, SCAFFOLDING, EC.) N ASB CONT 3 DashDot2 Yes CONTAMINATION UNIT N ASB DECN 212 Continuous Yes DECONTAMINATION UNIT N ASB DIMS 1 Continuous Yes DECONTAMINATION UNIT N ASB FLTB 5 Continuous Yes FLX TUBE EXHAUST N ASB PLAT 1 Continuous Yes	_							
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N ASB DECN 212 Continuous Yes DECONTAMINATION UNIT N ASB DIMS 1 Continuous Yes DIMENSIONS N ASB EQPM 1 Continuous Yes EQUIPMENT, (NUA'S, LIGHTS, F. EXT.) N ASB FLTB 5 Continuous Yes FLEX TUBE EXHAUST N ASB IDEN 212 Continuous Yes WARA N ASB PLAT 1 Continuous Yes WORK AREA PLATFORM N ASB WARA 51 Border2 Yes WORK AREA LIMITS N ASB WIRE 51 Continuous Yes WARE N ASB WIRE 51 Continuous Yes WART ROUTE N ASB WIRE 51 Continuous Yes ACM TYPE #1 N DETL ACM1 8 Continuous Yes		_						
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NASB_FLTB5ContinuousYesFLEX TUBE EXHAUSTNASB_IDEN212ContinuousYesTEXTNASB_PLAT1ContinuousYesWORK AREA PLATFORMNASB_SYMB3ContinuousYesSYMBOLSNASB_WARA51Border2YesWORK AREA LIMITSNASB_WARA51ContinuousYesWIRENASB_WIRE51ContinuousYesWART ROUTENASB_WSRT51ContinuousYesWART ROUTENDETLACM18ContinuousYesACM TYPE #1NDETLACM28ContinuousYesACM TYPE #3NDETLACM38ContinuousYesISOLATION BARRIERNDETLCNAD8ContinuousYesCONSTRUCTION AIDS (LADDERS, SCAFFOLDING, EC.)NDETLCONT3DashDot2YesDECONTAMINATION UNITNDETLDECN212ContinuousYesDECONTAMINATION UNITNDETLDIMS1ContinuousYesEQUIPMENT, (NuA'S, LIGHTS, F. EXT.)NDETLDIMS1ContinuousYesFLEX TUBE EXHAUSTNDETLDIMS1ContinuousYesFLEX TUBE EXHAUSTNDETLDIMS1ContinuousYesFLEX TUBE EXHAUSTNDETL <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
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NDETLCNAD8ContinuousYesCONSTRUCTION AIDS (LADDERS, SCAFFOLDING, EC.)NDETLCONT3DashDot2YesCONTAINMENT LIMITSNDETLDECN212ContinuousYesDECONTAINANTION UNITNDETLDIMS1ContinuousYesDECONTAINANTION UNITNDETLEQPM1ContinuousYesEQUIPMENT, (NUA'S, LIGHTS, F. EXT.)NDETLFILL1ContinuousYesFILL/COVER MATERIALNDETLFLB5ContinuousYesFLEX TUBE EXHAUSTNDETLIDEN212ContinuousYesMEMBRANE/NETTINGNDETLIDEN4ContinuousYesPIPE AND CONDUITNDETLPIPE1ContinuousYesPIPE AND CONDUITNDETLPLAT1ContinuousYesPIPE AND CONDUITNDETLPLAT1ContinuousYesPUMPS	Ν	DETL	ACM3		8	Continuous	Yes	ACM TYPE #3
NDETLCNAD8ContinuousYesSCAFFOLDING, EC.)NDETLCONT3DashDot2YesCONTAINMENT LIMITSNDETLDECN212ContinuousYesDECONTAMINATION UNITNDETLDIMS1ContinuousYesDIMENSIONSNDETLEQPM1ContinuousYesEQUIPMENT, (NUA'S, LIGHTS, F. EXT.)NDETLFILL1ContinuousYesFIL/COVER MATERIALNDETLFILB5ContinuousYesFLEX TUBE EXHAUSTNDETLIDEN212ContinuousYesTEXTNDETLMEMB4ContinuousYesPIPE AND CONDUITNDETLPIPE1ContinuousYesPIPE AND CONDUITNDETLPLAT1ContinuousYesPUMPS								
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N DETL PUMP 212 Continuous Yes PUMPS								
	-							
N DETL TANK 3 Continuous Yes TANKS						Continuous		



N	DETL	VLVE	1	Continuous	Yes	VALVES AND FITTINGS
N	DETL	WARA	51	Border2	Yes	WORK AREA LIMITS
Ν	DETL	WIRE	51	Continuous	Yes	WIRING
Ν	GENE	BORE	4	Continuous	Yes	SOIL BORE SAMPLING LOCATION
Ν	GENE	EXWL	212	Continuous	Yes	EXTRACTION WELL LOCATION
Ν	GENE	GEOP	3	Continuous	Yes	GEO-PROBE LOCATION
Ν	GENE	GWAT	7	Continuous	Yes	GROUND WATER GRADIENT
Ν	GENE	HORW	212	Continuous	Yes	HORIZONTAL WELL LOCATION
Ν	GENE	IDEN	1	Continuous	Yes	TEXT
N	GENE	MONW	3	Continuous	Yes	MONITORING WELL LOCATION
Ν	GENE	PLUM	254	Continuous	Yes	PLUME CONTAMINATION LOCATION
Ν	GENE	REWL	212	Continuous	Yes	RECOVERY WELL LOCATION
N	GENE	TRCH	3	Continuous	Yes	TRENCH LOCATION
N	LEAD	BARR	212	Continuous	Yes	ISOLATION BARRIER
						CONSTRUCTION AIDS (LADDERS,
N	LEAD	CNAD	8	Continuous	Yes	SCAFFOLDING, EC.)
Ν	LEAD	CONT	3	DashDot2	Yes	CONTAINMENT LIMITS
N	LEAD	DECN	212	Continuous	Yes	DECONTAMINATION UNIT
Ν	LEAD	DIMS	1	Continuous	Yes	DIMENSIONS
Ν	LEAD	FABT	8	Continuous	Yes	LCM FULL ABATEMENT
N	LEAD	IDEN	212	Continuous	Yes	TEXT
N	LEAD	PLAT	1	Continuous	Yes	WORK AREA PLATFORM
N	LEAD	SABT	7	Continuous	Yes	LCM SPOT ABATEMENT
N	LEAD	WARA	51	Border2	Yes	WORK AREA LIMITS
N	PERM	ERCT	5	Continuous	Yes	EROSION CONTROL
N	PERM	IDEN	7	Continuous	Yes	TEXT
N	PERM	LMLN	3	Phantom2	Yes	
N	PERM	REUS	5	Continuous	Yes	ADDITION TO PERMIT APPICTION SCOPE
N	PERM	SILT	5	Continuous	Yes	SILT FENCE
		-				
N	PERM	ENTR	1	Continuous	Yes	
N	PERM	CB	212	Continuous	Yes	CATCH BASIN PROTECTION
N	PERM	WETL	1	Continuous	Yes	WETLAND AREA
N	REVS	BUBL	3	Continuous	Yes	REVISIONS BUBBLE
N	REVS	SYMB	3	Continuous	Yes	REVISIONS TEXT
N	SECT	ACM1	8	Continuous	Yes	ACM TYPE #1
N	SECT	ACM2	8	Continuous	Yes	ACM TYPE #2
N	SECT	ACM3	8	Continuous	Yes	ACM TYPE #3
N	SECT	BARR	212	Continuous	Yes	ISOLATION BARRIER
Ν	SECT	CNAD	8	Continuous	Yes	CONSTRUCTION AIDS (LADDERS, SCAFFOLDING, EC.)
Ν	SECT	CONT	3	DashDot2	Yes	CONTAINMENT LIMITS
Ν	SECT	DECN	212	Continuous	Yes	DECONTAMINATION UNIT
N	SECT	DIMS	1	Continuous	Yes	DIMENSIONS
N	SECT	EQPM	1	Continuous	Yes	EQUIPMENT, (NUA'S, LIGHTS, F. EXT.)
Ν	SECT	FLTB	5	Exhaust	Yes	FLEX TUBE EXHAUST
N	SECT	IDEN	212	Continuous	Yes	TEXT
N	SECT	MBND	8	Continuous	Yes	MATERIAL BEYOND SECTION CUT
N	SECT	MCUT	1	Continuous	Yes	MATERIAL CUT BY SECTION
N	SECT	PATT	8	Continuous	Yes	TEXTURES
N	SECT	PLAT	1	Continuous	Yes	WORK AREA PLATFORM
N	SECT	WARA	51	Border2	Yes	WORK AREA LIMITS
N	XREF	WAINA	254		Yes	EXTERNAL REFERENCE DRAWINGS
		DACT		Continuous		
Ν	XREF	RAST	254	Continuous	Yes	RASTER IMAGES

1.23.3 LINETYPES

Name	Description	Example
Border2		
Continuous	Continuous	
DASHED	Dashed (1x)	
DashDot2		
MATCHLINE		
PHANTOM2		

1.23.4 SYMBOLS

1.23.4.1 DRAFTING CONVENTIONS

Symbol	Block Name	Layer Name	Description
FIRST_LINE SECOND_LINE	Env-callout.dwg	(Varies)	Callout Symbol
D D# SHT#	Env-det-symb.dwg	(Varies)	Detail Symbol
<u></u>	Env-sec-mark.dwg	(Varies)	Section Mark Symbol
N.T.S.	Nts.dwg	(Varies)	Not-to-Scale

1.23.4.2 MISCELLANEOUS

Symbol	Block Name	Layer Name	Description
ACM	ACM.dwg	(Varies)	Asbestos-Containing Material
-0	ContainmentLimits.dwg	(Varies)	Containment Limits
******	Criticalbarrier.dwg	(Varies)	Critical Barrier
	Eexit.dwg	(Varies)	Emergency Exit
	Electricsource.dwg	(Varies)	Electrical Power Source
	Emergencylite.dwg	(Varies)	Emergency Light
	Removalroofpoint.dwg	(Varies)	Removal Roof Footprint
	Isolationbarrier.dwg	(Varies)	Isolation Barrier

NAU	Nau.dwg	(Varies)	Negative Air Unit
	Nauexhaustroute.dwg	(Varies)	NAU Flex Exhaust Route
	Vif.dwg	(Varies)	Verify in Field
W	Water&drain.dwg	(Varies)	Water/Drain Source Locations
	Workarea1way.dwg	(Varies)	Work Area (One Way) Access/Egress
	Workarea2way.dwg	(Varies)	Work Area (Two Way) Access/Egress
	Workarealimits.dwg	(Varies)	Work Area Limits

1.24 APPENDIX J – GEOTECHNICAL DISCIPLINE

1.24.1 CONTENT PREFERENCES

This Section Is Under Construction

1.24.2 LAYER STRATAGEM

1.24.2.1 GEOTECHNICAL WORK

DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
G	ANNO	CHNG		2	Continuous	Yes	Identification of Updated Work
G	ANNO	DIMS		2	Continuous	Yes	Witness/Extension Lines, Dimension Lines, Arrowheads and Dimension Text
G	ANNO	KEYN		2	Continuous	Yes	Keynotes with Associated Leaderlines and Arrowheads
G	ANNO	MLIN		6	Continuous	Yes	Matchlines
G	ANNO	NOTE		2	Continuous	Yes	General Notes and Remarks
G	ANNO	NPLT		6	Continuous	No	Construction Lines/Reference Targets and Review Comments
G	ANNO	SYMB		2	Continuous	Yes	Miscellaneous Symbols
G	ANNO	TEXT		2	Continuous	Yes	Miscellaneous Text with Associated Leaderlines and Arrowheads
G	ANNO	TTLB		210	Continuous	Yes	Border and Titleblock Linework
G	ANNO	TABL		210	Continuous	Yes	Table and Schedule Linework
G	ANNO	VPRT		5	Continuous	No	Viewports
G	DETL	LINE		140	Continuous	Yes	Medium Weight Detail Linework
G	DETL	LINE	FINE	143	Continuous	Yes	Light Detail Linework
G	DETL	LINE	HEVY	141	Continuous	Yes	Bold Detail Linework
G	DETL	BORE		3	Continuous	Yes	Borings/Perk Holes
G	DETL	CONC		8	Continuous	Yes	Concrete
G	DETL	ERTH		3	Continuous	Yes	Earth/Soil
G	DETL	FILL		3	Continuous	Yes	Fill/Cover Material
G	DETL	FLDN		3	Continuous	Yes	Field Information
G	DETL	GNWD		3	Continuous	Yes	Ground Water
G	DETL	GNRL		3	Continuous	Yes	General Features
G	DETL	TEXT		3	Continuous	Yes	Text
G	DETL	LABI		3	Continuous	Yes	Laboratory Information
G	DETL	PAVE		3	Continuous	Yes	Pavement
G	DETL	SPCF		4	Continuous	Yes	Special Features
G	DETL	STEL		3	Continuous	Yes	Steel
G	DETL	STRM		3	Continuous	Yes	Storm Water
G	DETL	SUBS		3	Continuous	Yes	Subsurface Areas
G	DETL	INST		3	Continuous	Yes	Instrumentation Details
G	DETL	SURF		3	Continuous	Yes	Surface Areas
G	SITE	BORE		1	Continuous	Yes	Soil Boring Sample Locations
G	SITE	GNRL		3	Continuous	Yes	General
G	SITE	GRID		132	Continuous	Yes	Grid Lines
G	SITE	MONW		1	Continuous	Yes	Monitoring Well Locations
G	SITE	SUBS		3	Continuous	Yes	Subsurface
G	SITE	SURF		8	Continuous	Yes	Surface
G	SITE	TEXT		3	Continuous	Yes	Text
G	XREF	DAOT		210	Continuous	Yes	Externally Referenced Drawings
G	XREF	RAST		210	Continuous	Yes	Raster Images

1.24.3 LINETYPES

Name	Description	Example
Continuous	Continuous	

1.24.4 SYMBOLS

1.24.4.1 DRAFTING CONVENTIONS

Symbol	Block Name	Layer Name	Description		
FIRST_LINE SECOND_LINE	geo-CALLOUT.dwg	(Varies)	Callout Symbol		
D D# SHT#	geo-DET-SYMB.dwg	(Varies)	Detail Symbol		
	geo-SEC-MARK.dwg	(Varies)	Section Mark Symbol		

1.24.4.2 MISCELLANEOUS

Symbol	Block Name	Layer Name	Description
	Borehole.dwg	(Varies)	Bore Hole
	Caisson.dwg	(Varies)	Caisson
	ConePenetometer.dwg	(Varies)	Cone Penetometer Sounding
	HML.dwg	(Varies)	HML
Τ	H-Piles.dwg	(Varies)	H Piles
	MonotubePiles.dwg	(Varies)	Monotube Piles
	ObervationWell.dwg	(Varies)	Observation Well

	Piezometer.dwg	(Varies)	Piezometer
	PipePiles.dwg	(Varies)	Pipe Piles
Ο	PrecastConcretePile.dwg	(Varies)	Precast Concrete
0-0-0	SecantPilesPerm.dwg	(Varies)	Secant Piles
	SecantPilesTemp.dwg	(Varies)	Temporary Secant Piles
A SEIS	Seismograph.dwg	(Varies)	Seismograph
SP##	SettlementPlate.dwg	(Varies)	Settlement Plate
	SlopeInclinometer.dwg	(Varies)	Slope Inclinometer
~~	SteelSheetPiles.dwg	(Varies)	Steel Sheet Piles
#	StrainGauge.dwg	(Varies)	Strain Gauge
	SurfaceMonitoringPoint.dwg	(Varies)	Surface Monitoring Point
QTX Q	TapeExtensometerSpan.dwg	(Varies)	Tape Extensometer Span
	Tapertubepiles.dwg	(Varies)	Taper Tube Piles
0	Tieback.dwg	(Varies)	Tie Back

1.25 APPENDIX K – MECHANICAL DISCIPLINE

1.25.1 CONTENT PREFERENCES

This Section Is Under Construction

1.25.2 LAYER STRATAGEM

1.25.2.1 HVAC WORK

DISCIPLINE	MAJOR	MINOR	DESC	PHASE	COLOR	LINETYPE	PLOTS	DESCRIPTION
М	ANNO	CHNG			2	Continuous	Yes	Identification of Updated Work
М	ANNO	COLN			250	Center	Yes	Column Line
M	ANNO	DIMS			8	Continuous	Yes	Dimensions
М	ANNO	KEYN			2	Continuous	Yes	Keynotes
М	ANNO	MLIN			6	Divide	Yes	Match Lines
М	ANNO	NOTE			2	Continuous	Yes	General Notes and Remarks
М	ANNO	NPLT			8	Continuous	Yes	Construction and Reference Lines
M	ANNO	SYMB			2	Continuous	Yes	Miscellaneous Symbols
M	ANNO	TEXT			2	Continuous	Yes	Annotations
M	ANNO	TTLB			2	Continuous	Yes	Borders
M	ANNO	VPRT			7	Continuous	Yes	View Ports
M	AVFL	ABVE			6	AFS	Yes	Jet Fuel Above Ground
M	AVFL AVFL	BELW EQPT			6	AFSU	Yes	Jet Fuel Below Ground
M	AVFL	OUTS			60 6	Continuous AFS	Yes Yes	Jet Fuel Equipment
M	AVFL	TANK			60	Continuous	Yes	Jet Fuel Out Of Service Jet Fuel Tanks
M	AVEL	VALV			60	Continuous	Yes	Jet Fuel Valves
M	BKGD	VALV			253	Continuous	Yes	Background Features
M	BKGD	TEXT			140	Continuous	Yes	Background Feature Annotations
M	CDWR	RETN			150	CWR	Yes	Condenser Water Piping Return (Schematic)
M	CDWR	RETN	DBLN		150	Continuous	Yes	Condenser Water Piping Return
M	CDWR	SUPP	002.1		150	CWS	Yes	Condenser Water Piping Supply (Schematic)
M	CDWR	SUPP	DBLN		150	Continuous	Yes	Condenser Water Piping Supply
M	COND	HPIP			140	HPC	Yes	High Pressure Condensate Piping (Schematic)
М	COND	HPIP	DBLN		140	Continuous	Yes	High Pressure Condensate Piping
М	COND	TEXT			2	Continuous	Yes	High Pressure Condesate Text
М	COND	LPIP			140	LPC	Yes	Low Pressure Condensate Piping (Schematic)
М	COND	LPIP	DBLN		140	Continuous	Yes	Low Pressure Condensate Piping
М	COND	MPIP			140	MPC	Yes	Medium Pressure Condensate Piping (Schematic)
М	COND	MPIP	DBLN		140	Continuous	Yes	Medium Pressure Condensate Piping
М	CHWR	RETN			90	CHWR	Yes	Chilled Water Piping Return (Schematic)
M	CHWR	RETN	DBLN		90	Continuous	Yes	Chilled Water Piping Return
М	CHWR	SUPP			90	CHWS	Yes	Chilled Water Piping Supply (Schematic)
М	CHWR	SUPP	DBLN		90	Continuous	Yes	Chilled Water Piping Supply
М	CTRL	DEVI			140	Continuous	Yes	Control Devices
M	CTRL	LINK			170	Dashed	Yes	Control / Communication Link
M	CTRL	TEXT			2	Continuous	Yes	Control Text
M	DETL	CABS			7	Continuous	Yes	Cabinets
M	DETL	DUCT			140	Continuous	Yes	Ducts
M	DETL DETL	EQPT			90 243	Continuous	Yes	Equipment and Fixtures
M	DETL	GENF LVLE			60	Continuous Continuous	Yes Yes	General Features Valves and Fittings
M	DETL	PATT			8	Continuous	Yes	Hatch Patterns
M	DETL	PIPE			6	Continuous	Yes	Piping
M	DETL	STRC			170	Continuous	Yes	Structural Support Features
M	DETL	WIRE			83	Continuous	Yes	Electrical Wiring
M	DUCT	DAMP			140	Continuous	Yes	Fire Damper or Fire / Smoke Damper
M	DUCT	DETR			140	Continuous	Yes	Smoke or Heat Detector
М	DUCT	EXHT			6	Continuous	Yes	Exhaust Duct Work
М	DUCT	RETN			231	Continuous	Yes	Return Duct Work
М	DUCT	SUPL			140	Continuous	Yes	Supply Duct Work
М	ELEV	FIXT			241	Continuous	Yes	Miscellaneous Features
М	ELEV	IDEN			9	Continuous	Yes	Component Identification Numbers
М	ELEV	OTLN			7	Continuous	Yes	Building Outlines
М	ELEV	PATT			7	Continuous	Yes	Textures and Hatch Patterns
М	ELEV	PFIX			2	Continuous	Yes	Plumbing Fixtures
М	FUEL	FORA			140	FOR	Yes	Fuel Oil Return Above
М	FUEL	FORU			140	FORU	Yes	Fuel Oil Return Below



M FUEL FOSU Yes Fuel Of Suction Below M FUEL FOVU 140 FOVU Yes Fuel Of Tank Korn Above M FUEL TANK 90 Continuous Yes Fuel Of Tank Fuel Of Tank M DTWS RETN 90 Continuous Yes Dual Temperature Water Poing Return (Schem M DTWS SUPP 90 Continuous Yes Dual Temperature Water Poing Supply Genum M DTWS SUPP 90 Continuous Yes Dual Temperature Water Poing Supply Genum M TYMR RETN 231 Continuous Yes Hot Water Poing Supply Chematic) M HTWR RETN DBLN 231 Continuous Yes Hot Water Poing Supply Chematic) M HTWR SUPP DBLN 231 Continuous Yes Hot Water Poing Supply Chematic) M HTWR SUPP 231 Hot Water Poing Supply Chematic) Moth Hot Col Colu DBLN 231						n	1		
M FUEL FOVA Yes Fuel OI Tark Vent Below M FUEL FOVU 140 FOVU Yes Fuel OI Tark Vent Below M DTWS RETN 90 Continuous Yes Dual Temperature Water Piping Return (Schem. M DTWS RETN DBLN 90 Continuous Yes Dual Temperature Water Piping Return (Schem. M DTWS SUPP DBLN 90 Continuous Yes Dual Temperature Water Piping Return M TWWR RETN DBLN 90 Continuous Yes Hout Water Piping Return M HTWR RETN DBLN 231 Continuous Yes Hout Water Piping Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes Hout Water Piping Supply (Schematic) M HTWR SUPP DBLN 221 Continuous Yes Hout Water Piping Supply (Schematic) M HTWR SUPP DBLN 220 Continuous </td <td>M</td> <td>FUEL</td> <td>FOSA</td> <td></td> <td></td> <td>140</td> <td>FOS</td> <td>Yes</td> <td>Fuel Oil Suction Above</td>	M	FUEL	FOSA			140	FOS	Yes	Fuel Oil Suction Above
M FUEL FOVU 1440 FOVU Yes Fuel OI Tark Vert Below M DTWS RETN 90 Continuous Yes Fuel OI Tark Tark Vert Below M DTWS RETN 90 Continuous Yes Dual Temperature Valer Pping Return (Schematc) M DTWS SUPP 90 DTWS Yes Dual Temperature Valer Pping Return (Schematc) M TMWR RETN 231 HVR Yes Dual Temperature Valer Pping Supply M HTWR RETN 231 Continuous Yes Hot Water Pping Supply M HTWR RETN 231 Continuous Yes Hot Water Pping Supply M HTWR SUPP 231 Continuous Yes Hot Water Pping Supply M HVXC EQM 90 Continuous Yes HvXC Eupment M HVXC Continuous Yes HvXC Eupment Peint Peint Peint Supply M HTOL	М							Yes	Fuel Oil Suction Below
M FUEL TANK 90 Continuous Yes Dual Temperature Water Piping Return (Schem) M DTWS RETN DBLN 90 Continuous Yes Dual Temperature Water Piping Supply (Schem) M DTWS SUPP DBLN 90 Continuous Yes Dual Temperature Water Piping Supply (Schem) M HTWR RETN DBLN 231 HWR Yes Hold Water Piping Return Fold Water Piping Supply (Schematic) M HTWR RETN DBLN 231 HWR Yes Hold Water Piping Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes Hold Water Piping Supply (Schematic) M HYAC EQUIP 231 Continuous Yes HYAC Back Mater Piping Supply (Schematic) M HYAC EQUIP 231 Continuous Yes HYAC Match Patterns M HYAC EQUIP 140 Continuous Yes Hot OI Snow Metring Return Pipe (Schenatic) M	М	FUEL	FOVA			140	FOV	Yes	Fuel Oil Tank Vent Above
M DTWS RETN DBLN 90 DTWR Yes Dual Temperature Water Piping Return (Schemating) M DTWS SUPP 90 DTWS Yes Dual Temperature Water Piping Supply (Schematic) M DTWR SUPP 90 DTWS Yes Dual Temperature Water Piping Supply (Schematic) M HTWR RETN 231 HWR Yes Had Water Piping Return M HTWR RETN 231 HWR Yes Had Water Piping Supply (Schematic) M HTWR RETN 231 Continuous Yes Had Water Piping Supply (Schematic) M HTVR SUPP 231 Continuous Yes HAd Expipines M HTVC EVPM 90 Continuous Yes HAd Expipines Yes M HTVC COLL 140 Continuous Yes Had OI Snow Mating Return Piping Supply (Piping Schematic) M HTOL COLL Pipin Piping Supply Piping Schematic) Mad OI Snow Mating Supply Pip	М	FUEL	FOVU			140	FOVU	Yes	Fuel Oil Tank Vent Below
M DTWS RETN DBLN 90 Continuous Yes Dual Temperature Water Piping Supply (Schemat) M DTWS SUPP DBLN 90 Continuous Yes Dual Temperature Water Piping Supply (Schematic) M HTWR RETN DBLN 231 Continuous Yes H-40 Water Piping Supply (Schematic) M HTWR RETN DBLN 231 Continuous Yes H-40 Water Piping Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes H-40 Water Piping Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes H-40 Water Piping Supply (Schematic) M HTVAC PATT 8 Continuous Yes H-40 Water Piping Supply (Schematic) M HTVAC EQUIT 140 Continuous Yes H-40 Water Piping Supply (Schematic) M HTVAL RETN 90 HOSMR Yes H-40 OI Snow Meting Supply Schentatic) M	M	FUEL				90		Yes	
M DTWS SUPP 90 DTWS Yes Dual Temporature Water Piping Supply (Schematic) M HTWR RETN 231 HWR Yes Hut Vater Piping Supply M HTWR RETN 231 Continuous Yes Hut Water Piping Supply M HTWR RETN 231 Continuous Yes Hut Water Piping Supply M HTWR SUPP 231 Continuous Yes Hut Water Piping Supply M HTWR SUPP 231 Continuous Yes Hut Alter Patterns M HTVAC EcoPM 90 Continuous Yes Hut Alter Patterns M HTOL COLL 140 Continuous Yes Hut Ol Snow Meing Call Schematic) M HTOL RETN 90 Continuous Yes Hut Ol Snow Meing Supply Pipe (Schematic) M HTOL RETN 91 Continuous Yes Hut Ol Snow Meing Supply Pipe (Schematic) M HTOL RETN </td <td>M</td> <td>DTWS</td> <td>RETN</td> <td></td> <td></td> <td>90</td> <td>DTWR</td> <td>Yes</td> <td>Dual Temperature Water Piping Return (Schematic)</td>	M	DTWS	RETN			90	DTWR	Yes	Dual Temperature Water Piping Return (Schematic)
M DTVS SUPP DBLN 90 Continuous Yes Hot Water Piping Supply M HTWR RETN DBLN 221 Continuous Yes Hot Water Piping Rutum (Stematic) M HTWR SUPP 221 Continuous Yes Hot Water Piping Supply (Schematic) M HTWR SUPP DBLN 221 Continuous Yes HVAC Equipment M HVAC EOR 90 Continuous Yes HVAC Anotations M HVAC FORT 2 Continuous Yes HVAC Anotations M HVAC FORT 2 Continuous Yes HVAC Anotations M HTOL COLL 140 Continuous Yes HVAC Anotations M HTOL RETN DBLN 201 Continuous Yes HVAC Hatch Patter Piping Pipic Schematic) M HTOL COLL DBLN 231 Continuous Yes HVAC Hatch Patter Piping Piping Pipic Schematic) <td>М</td> <td>DTWS</td> <td>RETN</td> <td>DBLN</td> <td></td> <td>90</td> <td>Continuous</td> <td>Yes</td> <td>Dual Temperature Water Piping Return</td>	М	DTWS	RETN	DBLN		90	Continuous	Yes	Dual Temperature Water Piping Return
M HTWR RETN 231 HWR Yes Hot Water Piping Return (Schematic) M HTWR SUPP 231 HWS Yes Hot Water Piping Supply (Schematic) M HTWR SUPP 231 Continuous Yes HW Water Piping Supply (Schematic) M HYAC EOPM 90 Continuous Yes HVAC Flaght M HVAC FATT 8 Continuous Yes HVAC flaght Hot OB Snow Meting Col Schematic) M HVAC TEXT 2 Continuous Yes Hot OB Snow Meting Col Schematic) M HTOL COLL DBLN 140 Continuous Yes Hot OB Snow Meting Return Pipe (Schematic) M HTOL RCIN 90 Continuous Yes Hot OB Snow Meting Supply Pipe (Schematic) M HTOL VLBX 2 Continuous Yes Hot OB Snow Meting Supply Pipe (Schematic) M HTOL VLBX 2 Continuous Yes Hot OB Snow Meting Supply	М	DTWS	SUPP			90	DTWS	Yes	Dual Temperature Water Piping Supply (Schematic)
M HTWR BETN DBLN 231 Continuous Yes Hot Water Piping Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes Hot Water Piping Supply (Schematic) M HVAC EOPM 90 Continuous Yes HVAC Equipment M HVAC FATT 8 Continuous Yes HVAC Annotations M HVAC TEXT 2 Continuous Yes HVAC Annotations M HVAC TEXT 2 Continuous Yes HVAC Annotations M HTOL COL 140 Continuous Yes Hot Oll Snow Meting Return Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot Oll Snow Meting Supply Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot Ol Snow Meting Supply Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes <t< td=""><td>М</td><td>DTWS</td><td>SUPP</td><td>DBLN</td><td></td><td>90</td><td>Continuous</td><td>Yes</td><td>Dual Temperature Water Piping Supply</td></t<>	М	DTWS	SUPP	DBLN		90	Continuous	Yes	Dual Temperature Water Piping Supply
M HTWR RETN DBLN 231 Continuous Yes Hot Water Pign Supply (Schematic) M HTWR SUPP DBLN 231 Continuous Yes Hvdxer Pign Supply (Schematic) M HVAC EQPM 90 Continuous Yes HvAC Representation M HVAC FATT 8 Continuous Yes HvAC Annotations M HVAC TEXT 2 Continuous Yes HvAC Annotations M HTOL COL 140 Continuous Yes HvAC Annotations M HTOL DELN 90 HoDSMR Yes HvAC DI Snow Meting Return Pige (Schematic) M HTOL SUPP DELN 20 Continuous Yes HvAC DI Snow Meting Supply Pige (Schematic) M HTOL SUPP 231 Continuous Yes HvAC DI Snow Meting Supply Pige (Schematic) M HTW RETN DELN 231 Continuous Yes HvAC DI Snow Meting Supply	М	HTWR	RETN			231	HWR	Yes	Hot Water Piping Return (Schematic)
M HTWR SUPP DBLN 231 HWS Yes Hot Water Pping Supply (Schematic) M HVAC EQPM 90 Continuous Yes HVAC Hutch Patterns M HVAC EQPM 90 Continuous Yes HVAC Hutch Patterns M HVAC FAT 8 Continuous Yes HVAC Hutch Patterns M HVAC EQUIL 140 Continuous Yes Hot Oil Snow Meting Coll (Schematic) M HTOL COLL DBLN 140 Continuous Yes Hot Oil Snow Meting Coll Schematic) M HTOL RETN DBLN 90 HOSMR Yes Hot Oil Snow Meting Supply Rep (Schematic) M HTOL SUPP 231 HOSMR Yes Hot Oil Snow Meting Supply Rep (Schematic) M HTWR RETN DBLN 231 Continuous Yes Hot Oil Snow Meting Supply Rep (Schematic) M HTWR RETN DBLN 231 Continuous Yes </td <td>М</td> <td>HTWR</td> <td>RETN</td> <td>DBLN</td> <td></td> <td>231</td> <td>Continuous</td> <td>Yes</td> <td></td>	М	HTWR	RETN	DBLN		231	Continuous	Yes	
M HTWR SUPP DBLN 231 Continuous Yes HVAC Expyment M HVAC EVAC Fays HVAC Expyment Fays HVAC Expyment M HVAC TEXT 2 Continuous Yes HVAC Expyment M HTOL COL DBLN 140 Continuous Yes HAVAC Expyment M HTOL COL DBLN 140 Continuous Yes Hot OI Snow Meting Coll Schematic) M HTOL RETN DBLN 90 Continuous Yes Hot OI Snow Meting Return Pipe M HTOL SUPP 231 Continuous Yes Hot OI Snow Meting Supply Pipe (Schematic) M HTOL SUPP 231 Continuous Yes Hot OI Snow Meting Supply Pipe (Schematic) M HTW RETN 43 HTHWR Yes High Temperature Hot Water Return (Schematic) M HTW RETN 231 Continuous Yes High Temperature Hot Water Return	М	HTWR	SUPP			231		Yes	· · ·
M HVAC EQPM 90 Continuous Yes HVAC Harch Patterns M HVAC TEXT 2 Continuous Yes HVAC Harch Patterns M HTOL COIL 140 Continuous Yes Hot OI Snow Meting Coil (Schematic) M HTOL COIL DBLN 140 Continuous Yes Hot OI Snow Meting Coil (Schematic) M HTOL RETN 90 HOSMR Yes Hot OI Snow Meting Query (Schematic) M HTOL RETN 90 Continuous Yes Hot OI Snow Meting Supply Pipe (Schematic) M HTOL SUPP 231 HOSMS Yes Hot OI Snow Meting Supply Pipe (Schematic) M HTHW RETN 43 Continuous Yes High Temperature Hot Water Return (Schematic) M HTHW RETN 43 Continuous Yes High Temperature Hot Water Supply (Schematic) M HTHW RETN DBLN 43 Continuous Yes Meclum Temperatu				DBLN					
M HVAC TEXT 8 Continuous Yes HVAC Honts M HVAC TEXT 2 Continuous Yes Hot OI Snow Meting Coil (Schematic) M HTOL COIL DBLN 140 Continuous Yes Hot OI Snow Meting Return Pipe (Schematic) M HTOL RETN DBLN 90 Continuous Yes Hot OI Snow Meting Return Pipe M HTOL SUPP 231 Continuous Yes Hot OI Snow Meting Suppl Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot OI Snow Meting Suppl Pipe (Schematic) M HTW RETN 43 HTHWR Hot OI Snow Meting Suppl Pipe (Schematic) M HTW RETN DBLN 43 Continuous Yes High Temperature Hot Water Return (Schematic) M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return (Schematic) M MTHW RETN DBLN 2									
M HVAC TEXT 2 Continuous Yes HVAC 015 frow Melting Coll M HTOL COLL 140 Continuous Yes HvaC 015 frow Melting Coll Coll Snow Melting Coll M HTOL RETN 90 HOSMR Yes HvaC 015 frow Melting Return Ppe (Schematic) M HTOL RETN DBLN 90 Continuous Yes HvaC 015 frow Melting Supply Ppe (Schematic) M HTOL SUPP 231 Continuous Yes HvaC 1015 row Melting Supply Ppe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes HvaC Net Net Water Return Schematic M HTHW RETN 43 Continuous Yes High Temperature Hot Water Return (Schematic M HTHW SUPP 43 Continuous Yes High Temperature Hot Water Return (Schematic M MTHW SUPP 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M MTHW SUPP 231									
M HTOL COLL DBLN 140 Continuous Yes Hot Oll Snow Metling Coll M HTOL RETN 90 Hot Oll Snow Metling Coll Hot Oll Snow Metling Return Pipe M HTOL RETN 90 Continuous Yes Hot Oll Snow Metling Supply Pipe M HTOL SUPP 231 HOSMS Yes Hot Oll Snow Metling Supply Pipe M HTOL SUPP 231 Continuous Yes Hot Oll Snow Metling Supply Pipe M HTOL VLBX 2 Continuous Yes Hot Oll Snow Metling Supply Pipe M HTHW RETN 43 Continuous Yes High Temperature Hot Water Return M HTHW SUPP DBLN 43 Continuous Yes High Temperature Hot Water Return M MTHW SUPP DBLN 231 MTHWS Yes Medium Temperature Hot Water Return M MTHW SUPP 231 MTHWS Yes Medium Temperature Hot Water Return									
M HTOL COIL DBLN 140 Continuous Yes Hot OI Snow Melting Coli M HTOL RETN DBLN 90 HCSMR Yes Hot OI Snow Melting Return Pipe (Schematic) M HTOL SUPP 231 HOSMS Yes Hot OI Snow Melting Supply Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot OI Snow Melting Supply Pipe (Schematic) M HTOL VLBX 2 Continuous Yes Hot OI Snow Melting Supply Pipe (Schematic) M HTHW RETN 43 Continuous Yes Hot OI Snow Melting Supply Fipe (Schematic) M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Return (Schematic) M MTHW SUPP DBLN 231 MTHWS Yes Medium Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
M HTOL RETN DBLN 90 HOSMR Yes Hot Oil Snov Meling Return Pipe (Schematic) M HTOL SUPP DBLN 231 HOSMS Yes Hot Oil Snov Meling Supply Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot Oil Snov Meling Supply Pipe M HTOL SUPP DBLN 231 Continuous Yes Hot Oil Snov Meling Supply Pipe M HTHW RETN DBLN 43 Continuous Yes Hot Oil Snov Meling Supply Pipe M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 43 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M MTHW RETN DBLN 231 MTHWS Yes Medium Temperature Hot Water Supply (Schematic) M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Supp				DRIN					
M HTOL RETN DBLN 90 Continuous Yes Hot Oil Snow Melting Supply Pipe M HTOL SUPP DBLN 231 Continuous Yes Hot Oil Snow Melting Supply Pipe M HTOL VLRX 2 Continuous Yes Hot Oil Snow Melting Supply Pipe M HTHW RETN DBLN 43 HTHWR Yes High Temperature Hot Water Return (Schematin M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Return (Schematin M HTHW SUPP DBLN 231 Continuous Yes High Temperature Hot Water Return (Schematin M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematin M MTHW SUPP DBLN 231 Continuous Yes Bedium Temperature Hot Water Supply (Schematin M MSC BBDN 231 Continuous Yes Backgroun Oping M				DDLIN					
M HTOL SUPP 231 HOSMS Yes Hot Oil Snow Melting Supply Pipe (Schematic) M HTOL SUPP DBLN 231 Continuous Yes Hot Oil Snow Melting Valve Box M HTHW RETN 43 HTHWR Yes High Temperature Hot Water Return (Schematic) M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic) M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 231 MTHWS Yes Medium Temperature Hot Water Return (Schem M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M MTSC BKGD 7 Continuous Yes Medium Temperature Hot Water Supply (Schematic)				DDLN					
M HTOL SUPP DBLN 231 Continuous Yes Hot Oil Snow Meting Supply Pige M HTHW RETN 2 Continuous Yes Hot Oil Snow Meting Valve Box M HTHW RETN DBLN 43 HTHWR Yes High Temperature Hot Water Return (Schematic M HTHW SUPP 43 HTHWS Yes High Temperature Hot Water Return (Schematic M HTHW SUPP 43 Continuous Yes Hedium Temperature Hot Water Supply (Schematic M MTHW RETN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic M MISC BRGD 7 Continuous Yes Background Piping M MISC BRAN 231 D Yes Background Piping M MISC DRAN 231 D Yes Dark Pipi				DBLN					
M HTOL VLBX 2 Continuous Yes Hol OIl Snow Meting Valve Box M HTHW RETN DBLN 43 HTHWR Yes High Temperature Hot Water Return (Schematic) M HTHW SUPP 43 HTHWS Yes High Temperature Hot Water Supply (Schematic) M HTHW SUPP DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic) M MTHW RETN 231 MTHWR Yes Medium Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic) M MTHW SUPP DBLN 231 BBD Yes Boller Bow Down M MISC BAN 231 D Yes Dark Brow Down M MISC DRAN 231 D Yes Dark Brow Down M MISC BAN 231 D Yes Dark Brow Down <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
M HTHW RETN 43 HTHWR Yes High Temperature Hot Water Return M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic M HTHW SUPP DBLN 43 Continuous Yes High Temperature Hot Water Supply (Schematic M MTHW RETN 231 MTHWR Yes Medium Temperature Hot Water Supply (Schematic M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return (Schematic M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic M MSC BBDN 231 Continuous Yes Baler Biow Down M MISC DRAN 231 D Yes Daiter Biow Down M MISC DRAN 231 D Yes Dark Blue M MISC DRAN 231 D Yes Dark Blue				DBLN					
M HTHW RETN DBLN 43 Continuous Yes High Temperature Hot Water Return M HTHW SUPP DBLN 43 HTHWS Yes High Temperature Hot Water Supply (Schematic M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return (Schematic M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schem M MTHW SUPP 231 Continuous Yes Medium Temperature Hot Water Supply (Schematic M MTHW SUPP DBLN 231 BBD Medium Temperature Hot Water Supply (Schematic M MISC BBDN 231 D Yes Medium Temperature Hot Water Supply (Schematic M MISC BBDN 231 Continuous Yes Background Piping M MISC DRAN 231 D Yes Compressed Air M MISC DRAN 231 MU <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td></t<>									•
M HTHW SUPP BLN 43 HTHWS Yes High Temperature Hot Water Supply M MTHW RETN 231 MTHWR Yes Medium Temperature Hot Water Stupply M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return (Schem M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schem M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schem M MISC BKGD 7 Continuous Yes Drain Piping M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Drain Piping M MRES									
M HTHW SUPP DBLN 43 Continuous Yes High Temperature Hot Water Return (Schem Medium Temperature Hot Water Return M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return M MTHW SUPP 231 Continuous Yes Medium Temperature Hot Water Supply (Schem M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply (Schem M MTSC BBDN 231 Continuous Yes Bolier Blow Down M MISC BBDN 231 D Yes Drain Piping M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Dark File M MISC DRAN 231 MU Yes Dark File M MISC DRAN 231 Continuous Yes Dark Green M PRES				DBLN					
M MTHW RETN DBLN 231 MTHWR Yes Medium Temperature Hot Water Return M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return M MTHW SUPP 231 MTHWS Yes Medium Temperature Hot Water Supply (Scherr M MISC BKGD 7 Continuous Yes Boiler Blow Down M MISC CAIR 140 A Yes Boiler Blow Down M MISC D Yes Dark Blue Do Yes Dark Plping M MISC DRAN 231 D Yes Dark Blue M MISC MWTR 231 D Yes Dark Blue M PRES DBLU 180 Continuous Yes Dark Blue M PRES DBLU 180 Continuous Yes Dark Blue M PRES DPNK 240 Continuous <t< td=""><td>M</td><td>HTHW</td><td>SUPP</td><td></td><td></td><td>43</td><td>HTHWS</td><td>Yes</td><td>High Temperature Hot Water Supply (Schematic)</td></t<>	M	HTHW	SUPP			43	HTHWS	Yes	High Temperature Hot Water Supply (Schematic)
M MTHW RETN DBLN 231 Continuous Yes Medium Temperature Hot Water Return M MTHW SUPP 231 MTHWS Yes Medium Temperature Hot Water Supply (Scherr M MISC BBDN 231 Continuous Yes Bedium Temperature Hot Water Supply M MISC BBDN 231 BBD Yes Background Piping M MISC CAIR 140 A Yes Compressed Air M MISC DRAN 231 D Yes Dark Blue M MISC CAIR 140 A Yes Dark Blue M MISC MWTR 231 D Yes Dark Blue M PRES DBLU 180 Continuous Yes Dark Green M PRES DBNK 240 Continuous Yes Light Blue M PRES LBU 120 Continuous Yes Light Blue	М	HTHW	SUPP	DBLN		43	Continuous	Yes	High Temperature Hot Water Supply
M MTHW SUPP 231 MTHWS Yes Medium Temperature Hot Water Supply (Schem M M MISC BBDN 231 Continuous Yes Medium Temperature Hot Water Supply M MISC BKGD 7 Continuous Yes Background Piping M MISC CAIR 140 A Yes Compressed Air M MISC CAIR 140 A Yes Compressed Air M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Dark Blue M PRES DBLU 180 Continuous Yes Dark Blue M PRES DRN 96 Continuous Yes Dark Green M PRES DRN 61 Continuous Yes Light Blue M PRES LGRN 61 Continuous Yes Light Pink M <	М	MTHW	RETN			231	MTHWR	Yes	Medium Temperature Hot Water Return (Schematic)
M MTHW SUPP DBLN 231 Continuous Yes Medium Temperature Hot Water Supply M MISC BBDN 231 BBD Yes Boiler Blow Down M MISC BKGD 7 Continuous Yes Background Piping M MISC CAIR 140 A Yes Dackground Piping M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Dark Blue M PRES DBLU 180 Continuous Yes Dark Pink M PRES DGRN 96 Continuous Yes Dark Pink M PRES LBLU 120 Continuous Yes Light Green M PRES LBLU 120 Continuous Yes Light Pink M PRES DRNG 41 Continuous Yes Purple M <t< td=""><td>М</td><td>MTHW</td><td>RETN</td><td>DBLN</td><td></td><td>231</td><td>Continuous</td><td>Yes</td><td>Medium Temperature Hot Water Return</td></t<>	М	MTHW	RETN	DBLN		231	Continuous	Yes	Medium Temperature Hot Water Return
M MISC BBDN 231 BBD Yes Boiler Blow Down M MISC CAR 7 Continuous Yes Background Piping M MISC CAR 1400 A Yes Compressed Air M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Dark Blue M PRES DBLU 1800 Continuous Yes Dark Blue M PRES DGRN 96 Continuous Yes Dark Blue M PRES DBLU 120 Continuous Yes Light Blue M PRES LGRN 61 Continuous Yes Light Pink M PRES DRNG 41 Continuous Yes Purple M PRES REN 20 Continuous Yes Purple M PRES REFG DIG	М	MTHW	SUPP			231	MTHWS	Yes	Medium Temperature Hot Water Supply (Schematic)
M MISC BKGD 7 Continuous Yes Background Piping M MISC CAR 140 A Yes Compressed Air M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 MU Yes Drain Piping M PRES DBLU 180 Continuous Yes Dark Blue M PRES DBRN 96 Continuous Yes Dark Green M PRES LBLU 120 Continuous Yes Light Blue M PRES LBLU 120 Continuous Yes Light Green M PRES DRNK 221 Continuous Yes Orange M PRES PREL 202 Continuous Yes Refrigerant Liquid (Schematic) M PRES RED 20 Continuous Yes Refrigerant Suction (Schematic) M REFG	М	MTHW	SUPP	DBLN		231	Continuous	Yes	Medium Temperature Hot Water Supply
M MISC BKGD 7 Continuous Yes Background Piping M MISC CAR 140 A Yes Compressed Air M MISC DRAN 231 D Yes Drain Piping M MISC MWTR 231 MU Yes Drain Piping M PRES DBLU 180 Continuous Yes Dark Blue M PRES DBRN 96 Continuous Yes Dark Pink M PRES DPNK 240 Continuous Yes Light Blue M PRES LBLU 120 Continuous Yes Light Green M PRES LGRN 61 Continuous Yes Orange M PRES ORNG 41 Continuous Yes Orange M PRES RED 200 Continuous Yes Refrigerant Liquid (Schematic) M REFG DISG	М	MISC	BBDN			231	BBD	Yes	Boiler Blow Down
M MISC CAIR 140 A Yes Compressed Air M MISC DRAN 231 D Yes Drain Piping M MISC DRAN 231 D Yes Drain Piping M PRES DBLU 180 Continuous Yes Dark Blue M PRES DGRN 96 Continuous Yes Dark Blue M PRES DDNK 240 Continuous Yes Dark Pink M PRES LGRN 61 Continuous Yes Light Blue M PRES LGRN 61 Continuous Yes Light Pink M PRES DRNG 41 Continuous Yes Orange M PRES REPAL 202 Continuous Yes Red M PRES RED 201 Continuous Yes Red M REFG SCTN 231 RL<	М	MISC	BKGD			7	Continuous	Yes	Background Piping
M MISC DRAN 231 D Yes Drain Piping M MISC MWTR 231 MU Yes Makeup Water M PRES DBLU 180 Continuous Yes Dark Blue M PRES DGRN 96 Continuous Yes Dark Green M PRES LBLU 120 Continuous Yes Light Green M PRES LBLU 120 Continuous Yes Light Green M PRES LPNK 221 Continuous Yes Orange M PRES ORNG 41 Continuous Yes Orange M PRES RED 202 Continuous Yes Refrigerant Discharge (Schematic) M REFG DISG 231 RD Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M <td< td=""><td>М</td><td>MISC</td><td>CAIR</td><td></td><td></td><td>140</td><td></td><td>Yes</td><td></td></td<>	М	MISC	CAIR			140		Yes	
M MISC MWTR 231 MU Yes Makeup Water M PRES DBLU 180 Continuous Yes Dark Blue M PRES DGRN 96 Continuous Yes Dark Pink M PRES DDNK 240 Continuous Yes Dark Pink M PRES LGRN 61 Continuous Yes Light Green M PRES LGRN 61 Continuous Yes Light Pink M PRES DRNK 221 Continuous Yes Light Pink M PRES ORNG 41 Continuous Yes Purple M PRES RED 202 Continuous Yes Refrigerant Discharge (Schematic) M REFG SCTN 231 RD Yes Refrigerant Suction (Schematic) M REFG SCTN 231 RS Yes River Water Background Features M	М					231	D		
MPRESDBLU180ContinuousYesDark BlueMPRESDGRN96ContinuousYesDark PinkMPRESDPNK240ContinuousYesDark PinkMPRESLBLU120ContinuousYesLight BlueMPRESLGRN61ContinuousYesLight GreenMPRESLPNK221ContinuousYesLight PinkMPRESPRPK202ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMREFGDISG231RDYesRefrigerant Discharge (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MREFGSCTN231RSYesRiver Water Background FeaturesMRIVWBKGD6ContinuousYesRiver Water ReturnMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWTUNL6ContinuousYesRiver Water SupplyMSECTMSDD7ContinuousYesMaterials Beyond Section CutMSECTMBND7ContinuousYesMaterials Cut By SectionMSECTPATT7ContinuousYesHigh Pressure Steam Piping (Schematic)MSE									
MPRESDGRN96ContinuousYesDark GreenMPRESDPNK240ContinuousYesDark PinkMPRESLBLU120ContinuousYesLight BlueMPRESLGRN61ContinuousYesLight GreenMPRESLPNK221ContinuousYesLight PinkMPRESDRNG41ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMREFGDISG231RDYesRefrigerant Discharge (Schematic)MREFGLIQD231RLYesRefrigerant Suction (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MREFGSCTN231RSYesRiver Water Background FeaturesMRIVWBKGD6ContinuousYesRiver Water ReturnMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWTUNL6ContinuousYesRiver Water SupplyMSECTMCUT7ContinuousYesMaterials Beyond Section CutMSECTMDUT7ContinuousYesMaterials Cut By SectionMSECTMDUT7ContinuousYesHigh Pressure Steam Piping (Schematic) <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
M PRES DPNK 240 Continuous Yes Dark Pink M PRES LBLU 120 Continuous Yes Light Blue M PRES LBRN 61 Continuous Yes Light Green M PRES LPNK 221 Continuous Yes Light Pink M PRES ORNG 41 Continuous Yes Orange M PRES PRPL 202 Continuous Yes Purple M PRES RED 200 Continuous Yes Refrigerant Discharge (Schematic) M REFG DISG 231 RD Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RS Yes River Water Background Features M RIVW BKGD 6 Continuous Yes River Water Return M RIVW RUW SUPP 6 Continuous Yes River Water Return									
MPRESLBLU120ContinuousYesLight BlueMPRESLGRN61ContinuousYesLight GreenMPRESLPNK221ContinuousYesLight PinkMPRESORNG41ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMREFGDISG231RDYesRefrigerant Discharge (Schematic)MREFGSCTN231RLYesRefrigerant Liquid (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MRIVWBKGD6ContinuousYesRiver Water Background FeaturesMRIVWBKGD6ContinuousYesRiver Water SupplyMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWSUPP7ContinuousYesRiver Water SupplyMSECTTEXT2ContinuousYesRiver Water SupplyMSECTMBND7ContinuousYesMaterials Beyond Section CutMSECTMBND7ContinuousYesMaterials Cut By SectionMSECTPATT7ContinuousYesHigh Pressure Steam Piping (Schemat									
MPRESLGRN61ContinuousYesLight GreenMPRESLPNK221ContinuousYesLight PinkMPRESORNG41ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMPRESRED20ContinuousYesRedMREFGDISG231RDYesRefrigerant Discharge (Schematic)MREFGLIQD231RLYesRefrigerant Suction (Schematic)MREFGSCTN231RSYesRiver Water Background FeaturesMRIVWBKGD6ContinuousYesRiver Water ReturnMRIVWSUPP6ContinuousYesRiver Water ReturnMRIVWTUNL6ContinuousYesRiver Water TunnelMSECTTEXT2ContinuousYesMaterials Beyond Section CutMSECTMCUT7ContinuousYesMaterials Cut By SectionMSECTPATT7ContinuousYesHigh Pressure Steam Piping (Schematic)MSTEMHPIP35ContinuousYesLight Pressure Steam PipingMSTEMLIPIP35ContinuousYesKeatures Steam PipingMSTEMHPIP35ContinuousYesHigh Pressure Steam									
MPRESLPNK221ContinuousYesLight PinkMPRESORNG41ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMPREGDISG231RDYesRefrigerant Discharge (Schematic)MREFGDISG231RLYesRefrigerant Liquid (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MRIVWBKGD6ContinuousYesRiver Water Background FeaturesMRIVWBKGD6ContinuousYesRiver Water ReturnMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWTUNL6ContinuousYesComponent Identification NumbersMSECTTEXT2ContinuousYesMaterials Beyond Section CutMSECTMCUT7ContinuousYesTextures and Hatch PatternsMSECTPATT7ContinuousYesHigh Pressure Steam Piping (Schematic)MSTEMHPIP35LPSYesLiow Pressure Steam PipingMSTEMHPIP35ContinuousYesLow Pressure Steam PipingMSTEMLPIP35Contin									*
MPRESORNG41ContinuousYesOrangeMPRESPRPL202ContinuousYesPurpleMPRESRED20ContinuousYesRedMREFGDISG231RDYesRefrigerant Discharge (Schematic)MREFGLIQD231RLYesRefrigerant Liquid (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MREFGSCTN231RSYesRefrigerant Suction (Schematic)MRIVWBKGD6ContinuousYesRiver Water Background FeaturesMRIVWRETN90ContinuousYesRiver Water ReturnMRIVWSUPP6ContinuousYesRiver Water SupplyMRIVWTUNL6ContinuousYesComponent Identification NumbersMSECTTEXT2ContinuousYesMaterials Beyond Section CutMSECTMCUT7ContinuousYesMaterials Cut By SectionMSECTPATT7ContinuousYesHigh Pressure Steam Piping (Schematic)MSTEMHPIP35LPSYesLow Pressure Steam PipingMSTEMLPIP35ContinuousYesLow Pressure Steam PipingMSTEMLPIP35MPSYesMedium Pressure Steam PipingMSTEMLPIP35<									
M PRES PRPL 202 Continuous Yes Purple M PRES RED 20 Continuous Yes Red M REFG DISG 231 RD Yes Refrigerant Discharge (Schematic) M REFG LIQD 231 RL Yes Refrigerant Discharge (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M RIVW BKGD 6 Continuous Yes River Water Background Features M RIVW RETN 90 Continuous Yes River Water Supply M RIVW SUPP 6 Continuous Yes River Water Supply M SECT TEXT 2 Continuous Yes River Water Supply M SECT MBND 7 Continuous Yes Materials B									
M PRES RED 20 Continuous Yes Red M REFG DISG 231 RD Yes Refrigerant Discharge (Schematic) M REFG LIQD 231 RL Yes Refrigerant Discharge (Schematic) M REFG SCTN 231 RL Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M REFG SCTN 231 RS Yes Reirer Water Background Features M RIVW BKGD 6 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Supply M SECT TEXT 2 Continuous Yes Materials Beyond Section Cut M SECT MBND 7 Continuous Yes <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
M REFG DISG 231 RD Yes Refrigerant Discharge (Schematic) M REFG LIQD 231 RL Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RL Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M RIVW BKGD 6 Continuous Yes River Water Background Features M RIVW RETN 90 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Supply M SECT TEXT 2 Continuous Yes Materials Beyond Section Cut M SECT MBND 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous									
M REFG LIQD 231 RL Yes Refrigerant Liquid (Schematic) M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M RIVW BKGD 6 Continuous Yes River Water Background Features M RIVW BKGD 6 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 LPS<									
M REFG SCTN 231 RS Yes Refrigerant Suction (Schematic) M RIVW BKGD 6 Continuous Yes River Water Background Features M RIVW RETN 90 Continuous Yes River Water Background Features M RIVW RETN 90 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MEXT 2 Continuous Yes Component Identification Numbers M SECT MEXT 2 Continuous Yes Component Identification Numbers M SECT MCUT 7 Continuous Yes Materials Beyond Section Cut M SECT PATT 7									
M RIVW BKGD 6 Continuous Yes River Water Background Features M RIVW RETN 90 Continuous Yes River Water Background Features M RIVW SUPP 6 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M SEEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35									
M RIVW RETN 90 Continuous Yes River Water Return M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M SECT PATT 7 Continuous Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP									
M RIVW SUPP 6 Continuous Yes River Water Supply M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 3									
M RIVW TUNL 6 Continuous Yes River Water Tunnel M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP									
M SECT TEXT 2 Continuous Yes Component Identification Numbers M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM									
M SECT MBND 7 Continuous Yes Materials Beyond Section Cut M SECT MCUT 7 Continuous Yes Materials Beyond Section Cut M SECT PATT 7 Continuous Yes Materials Beyond Section Cut M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping (Schematic) M <td< td=""><td></td><td></td><td></td><td> </td><td> </td><td></td><td></td><td></td><td></td></td<>									
M SECT MCUT 7 Continuous Yes Materials Cut By Section M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP DBLN 35 Continuous Yes High Pressure Steam Piping M STEM LPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping									
M SECT PATT 7 Continuous Yes Textures and Hatch Patterns M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP DBLN 35 Continuous Yes High Pressure Steam Piping M STEM LPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP DBLN 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping									
M STEM HPIP 35 HPS Yes High Pressure Steam Piping (Schematic) M STEM HPIP DBLN 35 Continuous Yes High Pressure Steam Piping M STEM LPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping									· · ·
M STEM HPIP DBLN 35 Continuous Yes High Pressure Steam Piping M STEM LPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP 35 Continuous Yes Low Pressure Steam Piping (Schematic) M STEM LPIP DBLN 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping	M	SECT	PATT			7	Continuous	Yes	
M STEM LPIP 35 LPS Yes Low Pressure Steam Piping (Schematic) M STEM LPIP DBLN 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping	М	STEM	HPIP			35	HPS	Yes	High Pressure Steam Piping (Schematic)
M STEM LPIP DBLN 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping	М	STEM	HPIP	DBLN		35	Continuous	Yes	High Pressure Steam Piping
M STEM LPIP DBLN 35 Continuous Yes Low Pressure Steam Piping M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP 35 Continuous Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping	-		LPIP						Low Pressure Steam Piping (Schematic)
M STEM MPIP 35 MPS Yes Medium Pressure Steam Piping (Schematic) M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping	М			DBLN	İ		Continuous		
M STEM MPIP DBLN 35 Continuous Yes Medium Pressure Steam Piping									
				DBLN					, , ,
M XREF 7 Continuous Yes External Reference Drawings									
M XREF RAST 7 Continuous Yes Raster Images			RAST						

1.25.2.2 FIRE PROTECTION WORK

1.23.2								
D								
DISCIPLINE	S.	Z		꼬	c	LINETYPE	P	
₩	MAJOR	MINOR	DESC	PHASE	COLOR	티	PLOTS	DESCRIPTION
Ę	OR	0R	ö	SE	OR	YP	TS	
Ē						m		
F	ANNO	CHNG			2	Continuous	Yes	Identification of Updated Work
F	ANNO	DIMS			8	Continuous	Yes	Dimensions
F	ANNO	KEYN			2	Continuous	Yes	Keynotes
F	ANNO	MLIN			6	Continuous	Yes	Match Lines
F	ANNO	NOTE			2	Continuous	Yes	General Notes and Remarks
F	ANNO	NPLT			8	Continuous	Yes	Construction and Reference Lines
F	ANNO	SYMB			2	Continuous	Yes	Miscellaneous Symbols
	ANNO	TEXT			2	Continuous	Yes	Miscellaneous Annotations
F	ANNO	TTLB			2	Continuous	Yes	Borders
	ANNO	VPRT			7	Continuous	Yes	View Ports
F	DETL	CABS			7	Continuous	Yes	Hose Cabinets
F	DETL	DUCT			140	Continuous	Yes	Ducts
F	DETL	EQPT			90	Continuous	Yes	Equipment and Fixtures
F	DETL	FANS			90	Continuous	Yes	Fans
F	DETL	GENF			243	Continuous	Yes	General Features
F	DETL	GRLS			140	Continuous	Yes	Grilles and Louvers
F	DETL	LVLE			60	Continuous	Yes	Valves and Fittings
F	DETL	PUMP	ļ		60	Continuous	Yes	Pumps and Compressors
F	DETL	STRC	ļ		170	Continuous	Yes	Structural Support Features
F	DETL	VENT			35	Dashed	Yes	Vents
F	DETL	WIRE			83	Continuous	Yes	Electrical Wiring
F	ELEV	FIXT	ļ		241	Continuous	Yes	Miscellaneous Fixtures
F	ELEV	IDEN			9	Continuous	Yes	Component Identifcation Numbers
F	ELEV	OTLN			7	Continuous	Yes	Building Outlines
F	ELEV	PATT			7	Continuous	Yes	Textures and Patterns
F	ELEV	PFIX			2	Continuous	Yes	Plumbing Fixtures
F	CO2_				231	Continuous	Yes	CO2 System
F	CO2_	EQPM			231	Continuous	Yes	CO2 Equipment
F	CO2_	HEAD			231	Continuous	Yes	CO2 Head
F	CO2_	PIPE			131	CO2	Yes	CO2 Sprinkler Piping
F	FM2_				231	Continuous	Yes	FM 200 System
F	FM2_	EQPM			231	Continuous	Yes	FM 200 Equipment
F	FM2_	HEAD			231	Continuous	Yes	FM 200 Head
F	FM2_	PIPE			131	FM_200	Yes	FM 200 Sprinkler Piping
F	INGN				231	Continuous	Yes	Inergen System
F	INGN	EQPM			231	Continuous	Yes	Inergen Equipment
F	INGN	HEAD			231	Continuous	Yes	Inergen Head
F	INGN	PIPE			131	INERGEN	Yes	Inergen Piping
F	SECT	IDEN			2	Continuous	Yes	Component Identifcation Numbers
F	SECT	MBND			7	Continuous	Yes	Materials Beyond Section Cut
F	SECT	MCUT			7	Continuous	Yes	Materials Cut By Section
F	SECT	PATT			7	Continuous	Yes	Textures and Patterns
F	WET_	EQUP			231	Continuous	Yes	Wet Sprinkler Equipment
F	WET_	HEAD			131	Continuous	Yes	Wet Sprinkler Heads
F	WET_	HEAD	PNDT		131	Continuous	Yes	Wet Sprinkler Pendant Heads
F	WET_	HEAD	CONC		131	Continuous	Yes	Wet Sprinkler Concealed Heads
F	WET_	HEAD	RECD		131	Continuous	Yes	Wet Sprinkler Recessed Heads
F	WET_	HEAD	SIDE		131	Continuous	Yes	Wet SprinklerSidewall Heads
F	WET_	HEAD	UPRT		131	Continuous	Yes	Wet Sprinkler Upright Heads
F	WET_	PIPE			131	SP	Yes	Wet Sprinkler Piping
F	DELU	EQUP			231	Continuous	Yes	Deluge Sprinkler Equipment
F	DELU	HEAD			131	Continuous	Yes	Deluge Sprinkler Heads
F	DELU	HEAD	PNDT		131	Continuous	Yes	Deluge Sprinkler Pendant Heads
F	DELU	HEAD	CONC		131	Continuous	Yes	Deluge Sprinkler Concealed Heads
F	DELU	HEAD	RECD		131	Continuous	Yes	Deluge Sprinkler Recessed Heads
F	DELU	HEAD	SIDE		131	Continuous	Yes	Deluge Sprinkler Sidewall Heads
F	DELU	HEAD	UPRT		131	Continuous	Yes	Deluge Sprinkler Upright Heads
F	DELU	PIPE			131	DEL	Yes	Deluge Sprinkler Piping
F	DRYC	EQUP			231	Continuous	Yes	Dry Chemical Sprinkler Equipment
F	DRYC	HEAD			131	Continuous	Yes	Dry Chemical Sprinkler Heads
F	DRYC	HEAD	PNDT		131	Continuous	Yes	Dry Chemical Sprinkler Pendant Heads
F	DRYC	HEAD	CONC		131	Continuous	Yes	Dry Chemical Sprinkler Concealed Heads
F	DRYC	HEAD	RECD		131	Continuous	Yes	Dry Chemical Sprinkler Recessed Heads
F	DRYC	HEAD	SIDE		131	Continuous	Yes	Dry Chemical Sprinkler Necessed Heads
F	DRYC	HEAD	UPRT		131	Continuous	Yes	Dry Chemical Sprinkler Upright Heads
F	DRYC	PIPE	0.101		131	DRY_CHEM	Yes	Dry Chemical Sprinkler Piping
F	DRY_	EQUP			231	Continuous	Yes	Dry Sprinkler Equipment
F	DRT_	HEAD			131	Continuous	Yes	Dry Sprinkler Heads
F	DRY_	HEAD	PNDT		131	Continuous	Yes	Dry Sprinkler Pendant Heads
F	DRY_	HEAD	CONC		131	Continuous	Yes	Dry Sprinkler Concealed Heads
		HEAD	CONC		131	Continuous	163	



F	DRY_	HEAD	RECD	131	Continuous	Yes	Dry Sprinkler Recessed Heads
F	DRY_	HEAD	SIDE	131	Continuous	Yes	Dry Sprinkler Sidewall Heads
F	DRY_	HEAD	UPRT	131	Continuous	Yes	Dry Sprinkler Upright Heads
F	DRY_	PIPE		131	DRY	Yes	Dry Sprinkler Piping
F	FOAM	EQUP		231	Continuous	Yes	Foam Sprinkler Equipment
F	FOAM	HEAD		131	Continuous	Yes	Foam Sprinkler Heads
F	FOAM	HEAD	PNDT	131	Continuous	Yes	Foam Sprinkler Pendant Heads
F	FOAM	HEAD	CONC	131	Continuous	Yes	Foam Sprinkler Concealed Heads
F	FOAM	HEAD	RECD	131	Continuous	Yes	Foam Sprinkler Recessed Heads
F	FOAM	HEAD	SIDE	131	Continuous	Yes	Foam Sprinkler Sidewall Heads
F	FOAM	HEAD	UPRT	131	Continuous	Yes	Foam Sprinkler Upright Heads
F	FOAM	PIPE		131	FOAM	Yes	Foam Sprinkler Piping
F	PREA	EQUP		231	Continuous	Yes	Pre-Action Sprinkler Equipment
F	PREA	HEAD		131	Continuous	Yes	Pre-Action Sprinkler Heads
F	PREA	HEAD	PNDT	131	Continuous	Yes	Pre-Action Sprinkler Pendant Heads
F	PREA	HEAD	CONC	131	Continuous	Yes	Pre-Action Sprinkler Concealed Heads
F	PREA	HEAD	RECD	131	Continuous	Yes	Pre-Action Sprinkler Recessed Heads
F	PREA	HEAD	SIDE	131	Continuous	Yes	Pre-Action Sprinkler Sidewall Heads
F	PREA	HEAD	UPRT	131	Continuous	Yes	Pre-Action Sprinkler Upright Heads
F	PREA	PIPE		131	Continuous	Yes	Pre-Action Sprinkler Piping
F	SPKL	TEXT		2	Continuous	Yes	Fire Protection Annotations
F	XREF			7	Continuous	Yes	Externally Referenced Drawings
F	XREF	RAST		7	Continuous	Yes	Raster Images

1.25.2.3 PLUMBING WORK

DISCIPLINE	MAJOR	MINOR	DESC	PHASE	COLOR	LINETYPE	PLOTS	DESCRIPTION
Р	ACID	EQPM			131	Continuous	Yes	Acid, Alkaline and Oil Waste Equipment
Р	ACID	PIPE			131	Acid	Yes	Acid, Alkaline and Oil Waste Piping
Р	ANNO	CHNG			2	Divide	Yes	Identification of Updated Work
Р	ANNO	DIMS			8	Continuous	Yes	Dimensions
Р	ANNO	KEYN			2	Continuous	Yes	Keynotes
Р	ANNO	MLIN			6	Continuous	Yes	Match Lines
Р	ANNO	NOTE			2	Continuous	Yes	General Notes and Remarks
Р	ANNO	NPLT			8	Continuous	Yes	Construction and Reference Lines
Р	ANNO	SUBT			131	Continuous	Yes	Subtitles
Р	ANNO	SYMB			2	Continuous	Yes	Miscellaneous Symbols
Р	ANNO	TEXT			2	Continuous	Yes	Miscellaneous Annotations
Р	ANNO	TITL			6	Continuous	Yes	Titles
P	ANNO	TTLB			2	Continuous	Yes	Borders
Р	ANNO	VPRT			7	Continuous	Yes	View Ports
P	CAIR				30	A	Yes	Compressed Air Features
Р	CAIR	EQPM			1	Continuous	Yes	Compressed Air Equipment
Р	DETL	EQPM			3	Continuous	Yes	Equipment and Fixtures
Р	DOMW				170	Continuous	Yes	Domestic Hot and Cold Water Systems
Р	DOMW	COLD			170	DCW	Yes	Domestic Cold Water Piping
Р	DOMW	EQPM			1	Continuous	Yes	Domestic Hot and Cold Water Equipment
Р	DOMW	HOT_			170	DHW	Yes	Domestic Hot Water Piping
Р	DOMW	PIPE			170	Continuous	Yes	Domestic Water Piping (Schematic)
Р	DOMW	PIPE	DBLN		170	Continuous	Yes	Domestic Water Piping
Р	DOMW	RETN			170	DHWR	Yes	Domestic Hot Water Return Piping
Р	DOMW	TEMP			170	Т	Yes	Domestic Water Tempered Water
P	ELEV	IDEN			2	Continuous	Yes	Component Identification Numbers
Р	ELEV	OTLN			7	Continuous	Yes	Building Outlines
Р	ELEV	PATT			7	Continuous	Yes	Textures and Patterns
P	ELEV	PFIX			51	Continuous	Yes	Plumbing Fixtures
P	FSP_	PIPE			170	FSP	Yes	Fire Standpipe Piping
P	GAS	EQPM			1	Continuous	Yes	Gas Equipment
P	GAS	PIPE			40	G	Yes	Gas Piping
P	IRRG	COVR			42	Continuous	Yes	Irrigation Coverage and Spray Distribution Patterns
P	IRRG	EQPM			60	Continuous	Yes	Irrigation Equipment
P	IRRG	PIPE	MAIN		121	Continuous	Yes	Main Irrigation Pipe Line
P	IRRG	PIPE	SLEV		121	Continuous	Yes	Irrigation Piping Sleeve
P	IRRG	PIPE	ZONE		121	Continuous	Yes	Irrigation Piping Zone
P	IRRG	SPKL	FIX_		42	Continuous	Yes	Sprinklers - Fixed Spray
P	IRRG	SPKL	SIDE		42	Continuous	Yes	Sprinklers - Side Walk
P	IRRG	TEXT			2	Continuous	Yes	Irrigation Annotation
P	MISC	SKID			30	Hidden2	Yes	Skid Pad
P P	MISC	BKGD			7	Continuous	Yes	Background Features
Р	MISC	HTRC			26	HTRACE	Yes	Heat Tacing (Draw Over Linework)

Р	OIL_	EQPM		1	Continuous	Yes	Oil Equipment
Р	OIL_	PIPE		32	OW	Yes	Oil Piping
Р	SSWR			141	SAN	Yes	Sanitary Sewer Systems
Р	SSWR	BELW		141	SANU	Yes	Sanitary Sewer Underground
Р	SSWR	EQPM		10	Continuous	Yes	Sanitary Sewer Equipment (Schematic)
Р	SSWR	EQPM	DBLN	10	Continuous	Yes	Sanitary Sewer Equipment
Р	SSWR	FIXT		51	Continuous	Yes	Sanitary Sewer Plumbing Fixtures
Р	SSWR	FLDR		1	Continuous	Yes	Sanitary Sewer Floor Drains
Р	SSWR	PIPE		141	SAN	Yes	Sanitary Sewer Piping (Schematic)
Р	SSWR	PIPE	SML_	50	Continuous	Yes	Sanitary Sewer Piping 4 Inch or Under Diameter
Р	SSWR	PIPE	LRG_	51	Continuous	Yes	Sanitary Sewer Piping Over 4 Inch Diameter
Р	SSWR	RISR		51	Continuous	Yes	Sanitary Sewer Risers
Р	SECT	IDEN		2	Continuous	Yes	Component Identification Numbers
Р	SECT	MBND		7	Continuous	Yes	Materials Beyond Section Cut
Р	SECT	MCUT		7	Continuous	Yes	Materials Cut By Section
Р	SECT	PATT		7	Continuous	Yes	Textures and Patterns
Р	DRAN			141	ST	Yes	Storm Drainage System
Р	DRAN	BELW		141	STU	Yes	Storm Drainage System Underground
Р	DRAN	EQPM		10	Continuous	Yes	Storm Drainage Equipment (Schematic)
Р	DRAN	EQPM	DBLN	10	Continuous	Yes	Storm Drainage Equipment
Р	DRAN	PIPE		141	ST	Yes	Storm Drainage Piping (Schematic)
Р	DRAN	PIPE	SML_	50	Continuous	Yes	Storm Drainage Piping 4 Inch or Under Diameter
Р	DRAN	PIPE	LRG_	51	Continuous	Yes	Storm Drainage Piping Over 4 Inch Diameter
Р	DRAN	RISR		51	Continuous	Yes	Storm Drainage Risers
Р	DRAN	ROOF		1	Continuous	Yes	Storm Drainage Roof Drains
Р	VENT	PIPE		 32	VENT	Yes	Vent System Piping
Р	VENT	RISR		51	Continuous	Yes	Vent Riser
Р	XREF			7	Continuous	Yes	External Reference Drawings
Р	XREF	RAST		7	Continuous	Yes	Raster Images

1.25.3 LINETYPES

Name	Description	Example
А	Compressed Air Line	A A
ACID	Acid Alkaline Oil Waste Piping	ACID ACID
ACID_EX	Existing Acid Alkaline Oil Waste Piping	EX ACID EX ACID
AFS	Aviation Fuel	AFS AFS
AFSU	Aviation Fuel Underground	AFS — AFS — AFS — — AFS — — —
BBD	Boiler Blow Down	
Center		
CHWS	Chilled Water Piping Schematic Supply	
CHWR	Chilled Water Piping Schematic Return	CHWR CHWR
CO2	Co2 Sprinkler System	CO2 CO2
Continuous		

Name	Description	Example		
CWR	Condenser Water Piping Schematic Return			
CWS	Condenser Water Piping Schematic Supply			
D	Drain Piping	D D D D		
Dashed				
DCW	Domestic Cold Water			
DCW_EX	Existing Domestic Cold Water	EX EX EX		
DEL	Deluge Sprinkler Heads	DEL DEL		
DHW	Domestic Hot Water			
DHW_EX	Existing Domestic Hot Water	EX EX EX EX		
DHWR	Domestic Hot Water Return Circulation			
DHWR_EX	Existing Domestic Hot Water Return Circulation	EX EX EX EX EX		
Divide				
DRY	Dry Sprinkler Piping			
DRY_CHEM	Dry Chemical Piping			
DTWR	Dual Temperature Water Return			
DTWS	Dual Temperature Water Supply			
FM_200	FM 200 Piping			
FOAM	Foam Sprinkler Piping	FOAM FOAM		
FOR	Fuel Oil Return	FOR		
FORU	Fuel Oil Return Underground			

Name	Description	Example
FOS	Fuel Oil Supply	
FOSU	Fuel Oil Supply Underground	——————————————————————————————————————
FOV	Fuel Oil Vent	FOV
FOVU	Fuel Oil Vent Underground	FOV
FSP	Fire Standpipe Piping	FSP
FSP_EX	Existing Fire Standpipe Piping	EX FSP————————————————————————————————————
G	Gas Piping	G G
G_EX	Existing Gas Piping	——————————————————————————————————————
Hidden2		
HOSMR	Hot Oil Snow Melting Return Piping Schematic	HOSMR HOSMR
HOSMS	Hot Oil Snow Melting Supply Piping Schematic	HOS MS HOS MS
HPC	High Pressure Condensate Piping Schematic	——————————————————————————————————————
HPS	High Pressure Steam Piping Schematic	
HTHWR	High Temp. Hot Water Return Schematic	HTHWR
HTHWS	High Temp. Hot Water Supply Schematic	HTHWS HTHWS
HTRACE	Heat Tracing	

Name	Description		Example
HWR	Hot Water Piping Schematic Return		HWR
HWS	Hot Water Piping Schematic Supply		HWS
INERGEN	Inergen Fire Suppressent Piping	INERGEN	INERGEN
LPC	Low Pressure Condensate Piping Schematic	LPC	LPC
LPS	Low Pressure Steam Piping Schematic	LPS	LPS
MPC	Medium Pressure Condensate Piping Schematic	MPC	
MPS	Medium Pressure Steam Piping Schematic		MPS
MTHWR	Medium Temp. Hot Water Return	MTHWR	MTHWR
MTHWS	Medium Temp. Hot Water Supply	MTHWS	MTHWS
MU	Makeup Water	MU	
OW	Oil Water Piping	OW	
RD	Refrigerant Discharge		
RL	Refrigerant Liquid		RL
RS	Refrigerant Suction		RS
SAN	Sanitary Piping	SAN	SAN
SAN_EX	Existing Sanitary Piping		
SANU	Sanitary Piping Underground	SAN	SAN

Name	Description	Example
SANU_EX	Existing Sanitary Piping Underground Existing	EX_SANEX_SANEX_SAN
SP	Sprinkler	
SP_EX	Existing Sprinkler	
ST	Storm Piping	STST
ST_EX	Existing Storm Piping	
STU	Storm Piping Underground	STSTSTST
STU_EX	Existing Storm Piping Underground	EX_STEX_ST
т	Domestic Tempered Water	TTTTT
T_EX	Existing Domestic Tempered Water	EX TEX T
VENT	Vent Line	·

1.25.4 SYMBOLS

1.25.4.1 HVAC AIR TERMINALS

Symbol	Block Name Layer Name		Description
	M-Diffuser-1_WAY.dwg	(Varies)	Three-Way Blanked Off Supply Diffuser
	M-Diffuser-2_WAY.dwg	(Varies)	Two-Way Blanked-Off Supply Air Diffuser
	M-Diffuser- 2_WAY_CORNER.dwg	(Varies)	Two-Way Supply Diffuser with Blanked-Off Corner
	M-Diffuser-3_WAY.dwg	(Varies)	One-Way Blanked-Off Supply Air Diffuser
	M-Diffuser-4_WAY.dwg	(Varies)	Supply Air Diffuser
	M-Diffuser-R-1x1.dwg	(Varies)	Return Air Register

1.25.4.2 HVAC CONTROL DEVICES

Symbol	Block Name	Layer Name	Description
$\langle S \rangle$	DUCT SMOKE DETECTOR.dwg		Duct Smoke Detector
FS	FIRESTAT.dwg	(Varies)	Firestat
FS	FLOW SWITCH.dwg	(Varies)	Flow Switch
FZ	FREEZESTAT.dwg	(Varies)	Freezstat
$\langle HD \rangle$	HEAT DETECTOR.dwg	(Varies)	Heat Detector
H	HUMIDISTAT.dwg	(Varies)	Humidistat

I	1		
FM	M-FLOW_METER.dwg	(Varies)	Flow Meter
FT	M-FLOW_TRNSMTR.dwg	(Varies)	Flow Transmitter
	M-LEAK_DETECTOR.dwg	(Varies)	Leak Detector Symbol
	M-MOTOR.dwg	(Varies)	Motor
$\langle S \rangle$	M-SMOKE_DETECTOR.dwg	(Varies)	Smoke Detector (Duct)
ST	M-STEAM_TRAP.dwg	(Varies)	Steam Trap
TS	M-TEMP_SNSR.dwg	(Varies)	Temperature Sensor
	M-TEMPERATURE_SENSOR.dwg	(Varies)	Temperature Sensor
	M-THERMOSTAT.dwg	(Varies)	Thermostat
?	M- THERMST_HUMIDIST_SWITCH.dwg	(Varies)	Thermostat/Humidistat Switch
	SPACE TEMPERATURE SENSOR.dwg	(Varies)	Space Temperature Sensor
	TEMPERATURE SENSOR.dwg	(Varies)	Temperature Sensor
	THERMOSTAT, ELECTRIC.dwg	(Varies)	Electric Thermostat
	THERMOSTAT, PNEUMATIC.dwg	(Varies)	Pneumatic Thermostat

25.4.	Symbol	Block Name	Layer Name	Description
	\langle	M-ARROW.dwg	(Varies)	Airflow Directional Arrow
		M-ARROW_LEADER.dwg	(Varies)	Leader to be Used with Thermostat Symbol
		M-BREAK.dwg	(Varies)	Duct Break
		M-BREAK_LINE1.dwg	(Varies)	Break Line
	\frown	M-BREAK_LINE2.dwg	(Varies)	Break Symbol for Single Line Ducts and Pipes
	FIRST LINE SECOND LINE	M-CALLOUT.dwg	(Varies)	Callout for Plans
	DSESE# SHT#	M-CALLOUT-SYM.DWG	(Varies)	Detail, Section, & Elevation Symbol for Plans
		M-CENTERLINE_SYM.DWG	(Varies)	Centerline Symbol
	D D# SHT#	M-CUT2.dwg	(Varies)	Detail Symbol for Plans
	\land	M-CUT3.dwg	(Varies)	Section Head
		M-CUT4.dwg	(Varies)	Section Line
	FIRST_LINE SECOND_LINE	mec-CALLOUT.dwg	(Varies)	Callout
	\mathbf{X}	M-REMOVAL.dwg	(Varies)	Removal Marker

1.25.4.3 HVAC DRAFTING CONVENTIONS

?	M-REVISION_TRIANGLE.dwg	(Varies)	Revision Triangle
⊕ - ¬	M-SEC-DN-LEFT.dwg	(Varies)	Section, Detail, Elev. Callout
	M-SEC-DN-RIGHT.dwg	(Varies)	Section, Detail, Elev. Callout
1	M-SEC-LEFT-BTM.dwg	(Varies)	Section, Detail, Elev. Callout
	M-SEC-LEFT-TOP.dwg	(Varies)	Section, Detail, Elev. Callout
1	M-SEC-RIGHT-BTM.dwg	(Varies)	Section, Detail, Elev. Callout
	M-SEC-RIGHT-TOP.dwg	(Varies)	Section, Detail, Elev. Callout
	M-SECTION-MARK.dwg	(Varies)	Section
<u>↓</u> <u></u>	M-SEC-UP-LEFT.dwg	(Varies)	Section, Detail, Elev. Callout
► <u></u>	M-SEC-UP-RIGHT.dwg	(Varies)	Section, Detail, Elev. Callout

1.25.4.4 HVAC DUCTWORK

Symbol	Block Name	Layer Name	Description
A.D.	ACCESS DOOR IN DUCT.dwg	(Varies)	Access Door in Duct
AV	AIR VENT – AUTOMATIC.dwg	(Varies)	Automatic Air Vent
	AIR VENT – MANUAL.dwg	(Varies)	Manual Air Vent

	CONTROL.dwg	(Varies)	Control
FC	DUCT FLEXIBLE CONNECTION.dwg	(Varies)	Flexible Duct Connection
	FILTER.dwg	(Varies)	Filter
	M-ACCESS_DOOR.dwg	(Varies)	Access Door Symbol for Ductwork & Equipment
\uparrow	M-AIR_VENT.dwg	(Varies)	Air Vent
	M-COIL_COOLING.dwg	(Varies)	Cooling Coil
H	M-COIL_HEATING.dwg	(Varies)	Heating Coil
P H C	M-COIL_PRE_HT.dwg	(Varies)	Pre-Heating Coil
	M-DUCT_FLEX_CONNECT2.dwg	(Varies)	Flex Duct Connection
- EJ -	M-EXPN_JNT.dwg	(Varies)	Pipe Expansion Joint Symbol
FD	M-FD.dwg	(Varies)	Fire Damper
FSD M	M-FSD.dwg	(Varies)	Fire Smoke Damper
	M-FSD_FD.dwg	(Varies)	Fire Smoke Damper
	M-MEASUR_STATION.dwg	(Varies)	Measurement Station

·	M-SENS_RELAY.dwg	(Varies)	Current Sensing Relay
	M-SIGHT_GLASS.dwg	(Varies)	Sight Glass
+++++++++++++++++++++++++++++++++++++++	M-THERMOMETER.dwg	(Varies)	Thermometer
VFD	M-VFD.dwg	(Varies)	Variable-Frequency Drive
	SIDE CONNECTED SUPPLY, RETURN OR EXHAUST DEVICE.dwg	(Varies)	Side-Connected Supply
M F/SD	COMBINATION FIRE AND SMOKE DAMPER WITH DUCT ACCESS DOOR.dwg	(Varies)	Fire and Smoke Damper Combination with Duct Access Door
F.D.	FUSIBLE LINK FIRE DAMPER WITH DUCT ACCESS DOOR.dwg	(Varies)	Fusible Link Fire Damper with Duct Access Door
	M-M_B_CONTR_DAMP1.dwg	(Varies)	Multi-Blade Control Damper with Spring Opposed, Diaphragm Actuator w/o Positioner
	M-M_B_CONTR_DAMP.dwg	(Varies)	Multi-Blade Control Damper with Spring Diaphragm Actuator and Positioner
M	M-MOTORIZED_DAMPER.dwg	(Varies)	Motorized Damper
M	MOTORIZED DAMPER.dwg	(Varies)	Motorized Damper
M S/D	SMOKE DAMPER WITH DUCT ACCESS DOOR.dwg	(Varies)	Smoke Damper with Duct Access Door
SD SD	SPLITTER DAMPER.dwg	(Varies)	Splitter Damper
	VOLUME DAMPER.dwg	(Varies)	Volume Damper

	ACCOUSTICAL LINED DUCT.dwg	(Varies)	Acoustical Lined Duct
	DUCT SECTION CARRYING RETURN AIR.dwg	(Varies)	Duct Section Carrying Return Air
	DUCT SECTION CARRYING SUPPLY AIR.dwg	(Varies)	Duct Section Carrying Supply Air
	CONCENTRIC REDUCER.dwg	(Varies)	Concentric Reducer
	ECCENTRIC REDUCER.dwg	(Varies)	Eccentric Reducer
	ELBOW WITH TURNNG VANES – CIR.dwg	(Varies)	Elbow with Circular Turning Vanes
	ELBOW WITH TURNING VANES – RECT.dwg	(Varies)	Elbow with Rectangular Turning Vanes
	M-DOOR_LOUVERED.DWG	(Varies)	Louvered Door
	M-DOOR_UNDERCUT.DWG	(Varies)	Undercut Door
- DN-	M-DUCT_DN1.dwg	(Varies)	Duct Sloping Down Symbol
-DN	M-DUCT_DN.dwg	(Varies)	Duct Sloping Down Symbol
	M-DUCT_FLEX_CONNECT1.dwg	(Varies)	Flexible Connection
- UP-	M-DUCT_UP1.dwg	(Varies)	Raise Duct Up Symbol
-UP- 	M-DUCT_UP.dwg	(Varies)	Raise Duct Up Symbol

D	SLOPING DROP IN DUCT IN DIRECTION OF ARROW.dwg	(Varies)	Sloping Drop in Duct (Direction of Arrow)
R	SLOPING RISE IN DUCT IN DIRECTION OF ARROW.dwg	(Varies)	Sloping Rise in Duct (Direction of Arrow)

1.25.4.5 HVAC MECHANICAL EQUIPMENT

Symbol	Block Name	Layer Name	Description
	AXIAL FAN.dwg	(Varies)	Axial Fan
\bigcirc	M-FAN.dwg	(Varies)	Centrifugal Fan or Pump Symbol for Diagrams
	M-FAN_PROP.dwg	(Varies)	Propeller Fan Symbol
	M-PUMP.dwg	(Varies)	Pump Symbol
	M-PUMP_END_SUCT.dwg	(Varies)	End Suction Pump Symbol
	M-PUMPHORIZ_SPLIT.dwg	(Varies)	Horizontal Equal Split Pump Symbol
	M-UNIT_HEATER.dwg	(Varies)	Unit Heater
	PUMP.dwg	(Varies)	Pump
WH	WALL HYDRANT.dwg	(Varies)	Wall-Mounted Hydrant

1.25.4.6 HVAC MISCELLANEOUS

Syn	nbol	Block Name	Layer Name	Description
		ARROW INDICATES DIRECTION OF FLOW.dwg	(Varies)	Direction of Flow

[0-0]	BALL JOINTS.dwg	(Varies)	Ball Joints
	CONCEALED SPRINKLER HEAD.dwg	(Varies)	Concealed Sprinkler Head
18 x 12	DUCT SIZE – FIRST SIZE INDICATES PLAN SIZE.dwg	(Varies)	Duct Size
	REMOVAL SPRINKLER HEAD TO BE REMOVED.dwg	(Varies)	Removal Sprinkler Head to be Removed
	M-AIRFLOW_RTN.DWG	(Varies)	Air Flow Directional Arrow (Negative Pressure)
	M-AIRFLOW_SUP.dwg	(Varies)	Air Flow Direction Arrow (Positive Pressure)
F	M-ARROW_1.dwg	(Varies)	Air Flow Directional Arrow
	M-ARROW_FLOW.dwg	(Varies)	Fluid Flow Arrow Symbol
	M-CONNECT.dwg	(Varies)	Point of Connection
	M-DDC_AI.dwg	(Varies)	DDC Analog Input Signal
$\langle AO \rangle$	M-DDC_AO.dwg	(Varies)	DDC Analog Output Signal
	M-DDC_DI.dwg	(Varies)	DDC Digital Input Signal
	M-DDC_DO.dwg	(Varies)	DDC Digital Output Signal
	M-DDC_SIGNAL_SELECT.dwg	(Varies)	DDC Signal Selector

DP	M-DIFF_PRS_SWTCH.dwg	(Varies)	Pressure Differential Switch
	M-DISCONNECT.dwg	(Varies)	Point of Disconnection
	M-PIPE_BREAK.dwg	(Varies)	Pipe Break
XXX X	M-PIPE_RISERBOX.dwg	(Varies)	Riser Box
	M-PIPE_SECTION.dwg	(Varies)	Pipe Riser Symbol
	M- POINT_OF_CONNTECTION.dwg	(Varies)	Connection Between Removal and New
	M- POINT_OF_DISCONNECTION.dwg	(Varies)	Disconnection of Removal
PT	M-PRS_TRNSMTR.dwg	(Varies)	Pressure Transmitter
	M-TAG_EQUIP.dwg	(Varies)	Equipment Tag
	SIDEWALL SPRINKLER HEAD.dwg	(Varies)	Sidewall Sprinkler Head
	UPRIGHT SPRINKLER HEAD.dwg	(Varies)	Upright Sprinkler Head

1.25.4.7 HVAC PIPING

Symbol	Block Name	Layer Name	Description
	CAPPED PIPE.dwg	(Varies)	Capped Pipe
	DIRT POCKET.dwg	(Varies)	Dirty Pocket

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	STRAINER 'Y' TYPE WITH BLOWDOWN VALVE.dwg	(Varies)	Strainer 'Y' Type with Blowdown Valve
	UNION.dwg	(Varies)	Union
()	VACUUM BREAKER.dwg	(Varies)	Vacuum Breaker
	VALVED CAPPED OUTLET – BALL.dwg	(Varies)	Valved, Capped Outlet – Ball
	VALVED CAPPED OUTLET – GATE.dwg	(Varies)	Valved, Capped Outlet – Gate
	VALVED CAPPED OUTLET – PLUG.dwg	(Varies)	Valved, Capped Outlet – Plug
	VENTURI FLOW METER.dwg	(Varies)	Venturi Flow Meter
	M-PIPE_DN.dwg	(Varies)	Pipe Turns Down Symbol
	M-PIPE_TAP.dwg	(Varies)	Bottom Tap Pipe Connection
	M-PIPE_UP.dwg	(Varies)	Pipe Turns Up Symbol
	PIPE DOWN.dwg	(Varies)	Pipe Down
	PIPE UP.dwg	(Varies)	Pipe Up
	BALL VALVE.dwg	(Varies)	Ball Valve
	LOCK-SHIELD VALVE.dwg	(Varies)	Lock-Shield Valve

LUBRICATED PLUG VALVE.dwg	(Varies)	Lubricated Plug Valve
M-VALVE_AUTO.dwg	(Varies)	Automatic Valve
M-VALVE_AUTO_3WAY.dwg	(Varies)	Three-Way Modulating Automatic Control Valve
M-VALVE_BALL.dwg	(Varies)	Balancing Valve
M-VALVE_BUTTERFLY.dwg	(Varies)	Butterfly Valve
M-VALVE_CHECK1.dwg	(Varies)	Check Valve – Swing
M-VALVE_CHECK.dwg	(Varies)	Check Valve – Lift
M-VALVE_DIAPHRAGM.dwg	(Varies)	Diaphragm Operated Control Valve Spring Opposed with Positioner
M-VALVE_GATE.dwg	(Varies)	Gate Valve
M-VALVE_GLOBE.dwg	(Varies)	Globe Valve
M-VALVE_LUBRICATION.dwg	(Varies)	Plug Valve
M-VALVE_MISC.dwg	(Varies)	EP Control Valve
M-VALVE_MOTORIZED.dwg	(Varies)	Motor-Operated Valve
M- VALVE_PRESSURE_RED.dwg	(Varies)	Pressure-Reducing Valve

S	M-VALVE_SOLONOID.dwg	(Varies)	Solenoid Valve
	PRESSURE REDUCING VALVE.dwg	(Varies)	Pressure-Reducing Valve
	RELIEF VALVE.dwg	(Varies)	Relief Valve

1.25.4.8 PLUMBING & FIRE PROTECTION ACCESSORIES

Symbol	Block Name	Layer Name	Description
	P-ALARM_BELL.dwg	(Varies)	Bell/Strobe
	P-ALARMHOR_N.dwg	(Varies)	Horn
	P-AREA_DRAIN.dwg	(Varies)	Area Drain
	P-BELL_STROBE.dwg	(Varies)	Bell Strobe
	P-BWV.dwg	(Varies)	Back Water Valve
	P-CLEANOUT.dwg	(Varies)	Cleanout
	P-CLEANOUT_DECK_PLATE.dwg	(Varies)	Cleanout Deck Plate
	P-CLEANOUT_ELEV.dwg	(Varies)	Cleanout (Elevation View)
	P-CONNECTION TEE.dwg	(Varies)	Tee Connection
	P-DOMCONT.dwg	(Varies)	Domestic Cont.

	P-DRAIN_FLOOR.dwg	(Varies)	Floor Drain
FD	P-DRAIN_FLOOR_RISER.dwg	(Varies)	Floor Drain Riser
	P-DRAIN_FUNNEL.dwg	(Varies)	Funnel Drain
	P-DRAIN_PTRAP_PRIMER.dwg	(Varies)	PTrap Drain Primer
RD 	P-DRAIN_ROOF_RISER.dwg	(Varies)	Drain Riser
	P-DRAIN_STANDPIPE.dwg	(Varies)	Drain Standpipe
C	P-FA_INLET.dwg	(Varies)	Fresh Air Inlet
	P-FA_INTAKE.dwg	(Varies)	Fresh Air Intake
FD	P-FD.dwg	(Varies)	Floor Drain
	P-FHC.dwg	(Varies)	Fire Hose Connection
Image: A state of the state of	P-FHC_PLAN.dwg	(Varies)	Fire Hose Connection (Plan)
	P-FHR.dwg	(Varies)	Fire Hose Rack
H	P-FHR_PLAN.dwg	(Varies)	Fire Hose Rack (Plan)
Hereit	P-FIRE_HOSE_CABINET_PLAN.dwg	(Varies)	Fire Hose & Cabinet

	P-FIRE_HOSE_CABINET_ELEV.dwg	(Varies)	Fire Hose & Cabinet (Elevation)
	P-FIRE_HOSE_RACK_ELEV.dwg	(Varies)	Fire Hose Rack (Elevation)
O- □ □	P-FIRE_HOSE_RACK_PLAN.dwg	(Varies)	Fire Hose Rack (Plan)
	P-FLOOR_DRAIN.dwg	(Varies)	Drain Floor Pipe
FM	P-FLOW_METER.dwg	(Varies)	Flow Meter
	P-FLOW_SWITCH.dwg	(Varies)	Flow Switch
	P- FLUSH_WALL_MOUNTED_SIAME.dwg	(Varies)	Wall-Mounted Siamese Connection
	P-FREE_STANDING_SIAME.dwg	(Varies)	Free-Standing Siamese Connection
C	P-FRESH_AIR_INTAKE.dwg	(Varies)	Fresh Air Intake
	P-FRESH_AIR_INTAKE_PLATE.dwg	(Varies)	Fresh Air Intake Plate
	P-FUNDRAIN.dwg	(Varies)	Drain
	P-GASBOOSTER.dwg	(Varies)	Gas Booster
	P-GAUGE_PRESSURE.dwg	(Varies)	Pressure Gauge
	P-GAUGE_THERMOMETER.dwg	(Varies)	Gauge Thermometer

P-GREASE_INTERCEPTOR.dwg	(Varies)	Grease Interceptor
P-GREASEINTCPT.dwg	(Varies)	Grease Interceptor
P-HB.dwg	(Varies)	Hose Bibb
P-HORN.dwg	(Varies)	Horn
P-HOSE_BIB.dwg	(Varies)	Hose Bibb
P-HTRAP.dwg	(Varies)	House Trap (Riser)
P-HVC.dwg	(Varies)	Hose Bibb Valve Connection
P-HWATERHEAT.dwg	(Varies)	Hot Water Heater (Riser)
P-MISCPMPRISE.dwg	(Varies)	Pump Riser (Miscellaneous)
P-PIPE_CAP.dwg	(Varies)	Pipe Cap
P-PIPE_TEE.dwg	(Varies)	Pipe Tee
P-PNEUTANK.dwg	(Varies)	Pneumatic Tank
P-PNEUTANKRISER.dwg	(Varies)	Pneumatic Tank (Riser)
P-PREHEATRISER.dwg	(Varies)	Pre-Heater (Riser)

RD 	P-RD.dwg	(Varies)	Roof Drain
5-5-5	P-ROOF_MANIFOLD.dwg	(Varies)	Roof Manifold
	P-RPZ.dwg	(Varies)	RPZ (Riser)
SH	P-SHOWER.dwg	(Varies)	Shower
	P-SIAMESE_FREE_STANDING.dwg	(Varies)	Free-Standing Siamese
	P-SIAMESE_WALL_MOUNTED.dwg	(Varies)	Flush Wall-Mounted Siamese
SINK	P-SINK.dwg	(Varies)	Sink
LAV	P-SLAV.dwg	(Varies)	Lavatory (Riser)
	P-STANDDRAIN.dwg	(Varies)	Standpipe Drain
	P-TANK_HOTWATER.dwg	(Varies)	Hot Water Storage Tank
	P-TANK_PNEUMATIC.dwg	(Varies)	Pneumatic Tank
	P-TANKFLOAT.dwg	(Varies)	Tank Float
	P-THERMOMETER.dwg	(Varies)	Thermometer
	P-THERMOSTAT.dwg	(Varies)	Thermostat

	P-TR.dwg	(Varies)	Fixture P-Trap (Riser)
	P-TRPPRM_DRN.dwg	(Varies)	Floor Drain Primer with P-Trap Connection
	P-VACUUM_BREAKER.dwg	(Varies)	Vacuum Breaker
	P- VACUUM_BREAKER_ASSEMBLY.dwg	(Varies)	Vacuum Breaker Assembly
	P-VENTURBINPUMP.dwg	(Varies)	Turbine Pump
VFD	P-VFD.dwg	(Varies)	Variable Frequency Drive
	P-VOR.dwg	(Varies)	Variable
	P-VRV.dwg	(Varies)	Variable Valve

1.25.4.9 PLUMBING & FIRE PROTECTION MECHANICAL EQUIPMENT

Symbol	Block Name	Layer Name	Description
	FP-AUTOFIREPUMP.dwg	(Varies)	Automatic Fire Pump
	FP-AUTOFPMPCTRL.dwg	(Varies)	Automatic Fire Pump Control
	FP- FIRE_PUMP_CONTROL_PANEL.dwg	(Varies)	Automatic Fire Pump Control Panel
	FP-FIRE_PUMP_JOCKEY.dwg	(Varies)	Jockey Pump Control Panel
	FP-FIRE_PUMP_MAIN_PAD.dwg	(Varies)	Fire Pump Main Pad

	FP-FIRE_PUMP_PANEL.dwg	(Varies)	Fire Pump Panel
	FP-HORIZSPLTCASEPMP.dwg	(Varies)	Horizontal Split Case Pump
<u> </u>	FP-JOCKEYPMP.dwg	(Varies)	Jockey Pump
	FP-JOCKEYPMPCTRL-PA.dwg	(Varies)	Manual Fire Pump Control
	FP-MANFIREPMP.dwg	(Varies)	Manual Fire Pump
	FP-MANFIREPMPCONTROL.dwg	(Varies)	Manual Fire Pump Control
	FP-MANUALFRPMP.dwg	(Varies)	Manual Fire Pump
	FP-PUMP_FIRE.dwg	(Varies)	Fire Pump
	FP-PUMPHORIZONTAL.dwg	(Varies)	Horizontal Pump
<u> </u>	FP-PUMP_JOCKEY.dwg	(Varies)	Jockey Pump (Plan)
	P-DOMPUMP.dwg	(Varies)	Domestic Water Pump
\bigcirc	P-FIRE_PUMP.dwg	(Varies)	Fire Pump
Polar Polar	P-FIRE_PUMP_VERT.dwg	(Varies)	Fire Pump (Riser)
	P-HWCIRCPMP.dwg	(Varies)	Hot Water Circulation Pump

P-PUMP.dwg	(Varies)	Pump (Plan)
P-PUMP_DOMESTIC.dwg	(Varies)	Domestic Pump
P-DUPLEX_EJECTOR_SUMP.dwg	(Varies)	Duplex Ejector/Sump Pump Discharge
P-PUMP_GAS_BOOSTER.dwg	(Varies)	Gas Booster Pump
P-PUMP_HW_CIRC.dwg	(Varies)	HW Circulation Pump (Riser)
P-PUMP_VERT_TURBINE.dwg	(Varies)	Vertical Turbine Pump (Riser)

1.25.4.10 PLUMBING & FIRE PROTECTION MISCELLANEOUS

Symbol	Block Name	Layer Name	Description
	FP-HDETECT.dwg	(Varies)	Heat Detector
FIRST_LINE SECOND_LINE	MEC-CALLOUT.dwg	(Varies)	Callout for Plans
	Mec-SEC-MARK.dwg	(Varies)	Section Mark
	PA-BRK-PA.dwg	(Varies)	Break
	P-ALARM_VALVE.dwg	(Varies)	Alarm Valve
	P-B-671.dwg	(Varies)	Group Line Tag
BFP	P-BKFLWPREVENT.dwg	(Varies)	Backflow Preventer

	P-BREAK_DUCT.dwg	(Varies)	Break Line
	P-BREAK_DUCT_DOUBLE.dwg	(Varies)	Double Break Lines
	P-BREAK_EQUIP.dwg	(Varies)	Break Line
	P-BREAK_EQUIP_DOUBLE.dwg	(Varies)	Double Break Lines
	P-BREAK_LINE2.dwg	(Varies)	Break Line Symbol for Double Linework
	P-CEN.dwg	(Varies)	Point of Connection
	P-CENLSYMB.dwg	(Varies)	Center Line Symbol
	P-CENTER_LINE.dwg	(Varies)	Center Line Symbol
D D# SHT#	P-CUT2.dwg	(Varies)	Detail Symbol for Plans
	P-CUT3.dwg	(Varies)	Section Head
	P-CUT4.dwg	(Varies)	Section Line
	P-CWBD.dwg	(Varies)	Cold Water
DEL	P-DELUGE_VALVE.dwg	(Varies)	Deluge Valve
	P-DEN.dwg	(Varies)	Point of Disconnect

DRY	P-DRY_VALVE.dwg	(Varies)	Dry Valve
	P-DUCT_BREAK.dwg	(Varies)	Duct Break
	P-METER.dwg	(Varies)	Meter
	P-MOTOR_OPERATED_VALVE.dwg	(Varies)	Motor-Operated Valve
	P-NCV.dwg	(Varies)	Check Valve
	P-NTAG.dwg	(Varies)	Tag
	P-POINT_OF_CONNECTION.dwg		Connection Between Removal and New
	P-POINT_OF_REMOVAL.dwg		Disconnection of Removal
PA	P-PRE_ACTION_VALVE.dwg	(Varies)	Pre-Action Valve
	P-PRESSURE_GAUGE.dwg	(Varies)	Pressure Gauge
NUMBER	P-PTAG.dwg		Plumbing Tag
	P-PUMP_DISCHARGE.dwg		Pump Discharge
	P-REM.dwg	(Varies)	Removal Marker
	P-REMOVAL.dwg	(Varies)	Removal Marker

NUMBER	P-REV.dwg	(Varies)	Revision Tag
	P-RISERBOX.dwg	(Varies)	Riser Box
$\langle S \rangle$	P-SMOKE_DETECTOR_(DUCT).dwg	(Varies)	Duct Smoke Detector
S	P-SOLENOID_VALVE.dwg	(Varies)	Solenoid Valve
	P-SPACE_THERMOSTAT_SENSOR.dwg	(Varies)	Space Thermostat Sensor
CXX CXX CXX CXX CXX CXX CXX CXX CXX CXX	P-SPUMP.dwg	(Varies)	Supply Pump
	P-SQF.dwg	(Varies)	Area Tag
	P-SQUARE_FEET.dwg	(Varies)	Square Feet
$\left\langle \begin{array}{c} P \\ X \end{array} \right\rangle$	P-SY.dwg	(Varies)	Plumbing Tag
	P-SYM42.dwg	(Varies)	Tag
	P-SYM43.dwg	(Varies)	Tag
LABEL	P-SYM45.dwg	(Varies)	Tag
	P-TAG.dwg	(Varies)	Plumbing Tag
NUMBER	P-TAG_CIRC1.dwg	(Varies)	Circle Tag

P	P-TAG_CIRC_2.dwg	(Varies)	Riser Tag
NUMBER	P-TAG_HEX.dwg	(Varies)	Hexagonal Tag
	P-TAG_SQU.dwg	(Varies)	Square Tag
#	P-TAG_EQUIP.dwg	(Varies)	Equipment Tag
	P-VR.dwg	(Varies)	Pressure-Reducing Valve
NOMBER	P-XTAG.dwg	(Varies)	Number Tag

1.25.4.11 PLUMBING & FIRE PROTECTION PIPING

Symbol	Block Name	Layer Name	Description
	FP-WALLHYP.dwg	(Varies)	Wall-Mounted Connection
	P-2A.dwg	(Varies)	Double Cleanout
	P-14A.dwg	(Varies)	Cleanout
	P-CLEANOUT_RISER.dwg	(Varies)	Riser Cleanout
	P- CLEANOUT_RISER_CONNECTION.dwg	(Varies)	Riser Cleanout Connection
	P-LAVTRP.dwg		P-Trap
	P-PIPE.dwg	(Varies)	Pipe Riser Symbol

P-PIPE_BREAK.dwg	(Varies)	Pipe Break Symbol
P-PIPE_BRK.dwg	(Varies)	Pipe Break Symbol
P-PIPE_CONN.dwg	(Varies)	Pipe Connection
P-PIPE_CONNECTION.dwg	(Varies)	New Pipe Connection
P-PIPE_DN.dwg	(Varies)	Elbow Down
P-PIPE_TEE_DN.dwg	(Varies)	Tee Down
P-PIPE_UP.dwg	(Varies)	Pipe Up
P-TEE_DN.dwg	(Varies)	Tee Down
P-UNDER.dwg	(Varies)	Sub-Surface Piping

1.25.4.12 PLUMBING & FIRE PROTECTION SPRINKLERS

Symbol	Block Name	Layer Name	Description
	P-PENDANT_SPRINKLER_ON_DROP_NIPPLE.dwg	(Varies)	Pendant Sprinkler on Drop Nipple
	P-SIDEWALL_SPRINKLER.dwg	(Varies)	Sidewall Sprinkler
	P-SPKARR.dwg	(Varies)	Sprinkler
	P-SPKR.dwg	(Varies)	Sprinkler

P-SPRINKLER_SIDEWALL.dwg	(Varies)	Sidewall Sprinkler
P-SPRINKLER_PENDANT.dwg	(Varies)	Pendant Sprinkler
P-SPRINKLER_RIG_ASSEMBLY.dwg	(Varies)	Sprinkler Rig Assembly
P-SPRINKLER_UPRIGHT.dwg	(Varies)	Upright Sprinkler
 P-SPRINKLER_VALVE_FLOW.dwg	(Varies)	Sprinkler Control Valve with Flow Switch
P-UPRIGHT_SPRINKLER.dwg	(Varies)	Upright Sprinkler

1.25.4.13 PLUMBING & FIRE PROTECTION VALVES

Symbol	Block Name	Layer Name	Description
	P-AUTOMATIC_VALVE.dwg	(Varies)	Automatic Valve
	P-BALL_VALVE.dwg	(Varies)	Ball Valve Symbol
	P-BUTTERFLY_VALVE.dwg	(Varies)	Butterfly Valve
	P-CHECK_VALVE.dwg	(Varies)	Check Valve
	P-DOUBLECV.dwg	(Varies)	Double Check Valve
	P-FIRE_HOSE_VALVE.dwg	(Varies)	Fire Hose Valve
	P-GASVALVE.dwg	(Varies)	Gas Valve

P-GATE_VALVE.dwg	(Varies)	Gate Valve
P-GATE_VALVE_VERT.dwg	(Varies)	Gate Valve (Vertical)
P-GLOBE_VALVE.dwg	(Varies)	Globe Valve
P-HOLBYVALVE.dwg	(Varies)	Holby Valve
P-LUBRICATION_VALVE.dwg	(Varies)	Lubrication Valve
P-OSY.dwg	(Varies)	OS&Y Valve
P-PRV.dwg	(Varies)	PRV
P-PRV_RISER.dwg	(Varies)	PRV (Riser)
P-PRVSERIES_PARR.dwg	(Varies)	PRV Series
P-P-VALVE_OSY_VERTICAL.dwg	(Varies)	OS&Y Valve
P-RV.dwg	(Varies)	PRV
P-THREE_WAY_AUTO_VALVE.dwg	(Varies)	Three-Way Automatic Valve
P-VALVE_3_WAY_AUTO.dwg	(Varies)	3-Way Automatic Valve
P-VALVE_MIXING.dwg	(Varies)	Mixing Valve

A	P-VALVE_ALARM.dwg	(Varies)	Alarm Valve
	P-VALVE_AUTOMATIC.dwg	(Varies)	Automatic Valve
	P-VALVE_BACK_WATER.dwg	(Varies)	Back Water Valve
	P-VALVE_BALL_DRIP.dwg	(Varies)	Check Valve with Automatic Ball Drip
	P-VALVE_BUTTERFLY.dwg	(Varies)	Butterfly Valve
	P-VALVE_CHECK.dwg		Check Valve
DEL	P-VALVE_DELUGE.dwg		Deluge Valve
	P-VALVE_DOUBLE_GATE_CHECK.dwg		Double Gate & Check Valve Assembly
	P-VALVE_DOUBLE_GATE_DOUBLE_CHECK.dwg	(Varies)	Double Gate Valve with Double Check Valve Assembly
DRY	P-VALVE_DRY.dwg	(Varies)	Dry Valve
	P-VALVE_FLOAT.dwg	(Varies)	Float Valve
	P-VALVE_GAS_CONTROL.dwg		Gas Control Valve
	P-VALVE_GATE_VERT.dwg		Gate Valve (Vertical)
	P-VALVE_GATE.dwg	(Varies)	Gate Valve

	P-VALVE_GATE_CHECK.dwg	(Varies)	Single Gate & Check Valve Assembly
	P-VALVE_GLOBE.dwg	(Varies)	Globe Valve
	P-VALVE_LUBRICATION.dwg	(Varies)	Lubrication Valve
	P-VALVE_MOTORIZED.dwg	(Varies)	Motor-Operated Valve
	P-VALVE_NORMALLY_CLOSED.dwg	(Varies)	Normally-Closed Valve
	P-VALVE_OSY.dwg	(Varies)	OS & Y Valve
	P-VALVE_PRE-ACTION.dwg	(Varies)	Pre-Action Valve
	P-VALVE_PRESSURE_RELEASE.dwg	(Varies)	Pressure-Release Valve
	P-VALVE_PRV.dwg		Pressure-Regulating Valve
S	P-VALVE_SOLENOID.dwg		Solenoid Valve
	P-VALVE_VACUUM.dwg	(Varies)	Vacuum Breaker Assembly

1.26 APPENDIX L – STRUCTURAL DISCIPLINE

1.26.1 CONTENT PREFERENCES

This Section Is Currently Under Construction

1.26.2 LAYER STRATAGEM

1.26.2.1 STRUCTURAL WORK

S ANNO DUBL 212 Continuous Yes Structural Dimensions S ANNO DIMS 2 Continuous Yes Grid Line S ANNO KEYN 2 Continuous Yes Keynol / lader Insertion Layer S ANNO KEYN 2 Continuous Yes Keynol / lader Insertion Layer S ANNO TEXT 3 Continuous Yes Structural Binchaders) S ANNO TEXT 3 Continuous Yes Structural Binchaders) S ANNO NVET 7 Continuous Yes Revision Trangle S ANNO RVSN RLD 121 Continuous Yes Revision Trangle S ANNO SUBT 140 Continuous Yes State Insertion Layer S ANNO TTBL 7 Continuous Yes State Insertion Layer S ANNO TTBL 7 Continuous <t< th=""><th>DISCIPLINE</th><th>MAJOR</th><th>MINOR</th><th>DESC</th><th>COLOR</th><th>LINETYPE</th><th>PLOTS</th><th>DESCRIPTION</th></t<>	DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
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				MISC				Miscellaneous Steel Detail Linework (Thin



			1		1	1	
S	DETL	CONC		2	Continuous	Yes	Miscellaneous Concrete Detail Linework
S	DETL	TMBR		2	Continuous	Yes	Miscellaneous Timber Detail Linework
S	DETL	MSRY		230	Continuous	Yes	Miscellaneous Masonry Detail Linework, Clips, Anchors, Etc
S	EQPM	TEXT		3	Continuous	Yes	Text Associated with Equipmetnt Appearing on Structural Plans, Details, Etc
S	EQPM			2	Continuous	Yes	Equipment Appearing on Structural Plans, Details, Etc
S	FLOR			3	Continuous	Yes	Floor/ Slab Edge, Openings and Depressions
S	FLOR	ABVE		1	DASHED2	Yes	Floor/ Slab Above
S	FLOR	DECK		2	Continuous	Yes	Metal Decking
S	FLOR	MCUT		2	Continuous	Yes	Floor Materials Cut Outline
S S	FLOR FLOR	ABVE		3	Continuous DASHED2	Yes Yes	Floor/ Slab Edge, Openings and Depressions Floor/ Slab Above
S	FLOR	DECK		2	Continuous	Yes	Metal Decking
S	FLOR	MCUT		2	Continuous	Yes	Floor Materials Cut Outline
s	FTNG	MOOT		2	Continuous	Yes	Structural Foundation Footings (Medium Detail)
S	FTNG	BLOW		2	Continuous	Yes	Structural Footings Below
S	FTNG	HIDN		1	HIDDEN2	Yes	Footing Elements Obscured by Foreground Objects
S	PATT	STL		223	Continuous	Yes	Steel Hatch Patterns
S	PATT	CONC		223	Continuous	Yes	Concrete/Mortar Fill Hatch Patterns
S	PATT	TMBR		223	Continuous	Yes	Wood Grain Patterns
S	PATT	MSRY		223	Continuous	Yes	Masonry Hatch Patterns
S	PATT	SCLN		2	Continuous	Yes	Scorelines, Cut Lines, Expansion Joints, Etc
S	PATT	FILL		252	Continuous	Yes	Earth Fill Hatch Patterns
S	PATT	GRVL		252	Continuous	Yes	Gravel Fill Hatch Patterns
S	GNRL	EQPM		10	Continuous	Yes	General Equipment
S	GNRL	EQPM	HIDN	10	HIDDEN2	Yes	General Equipment Hidden
S	GNRL	EQPM	PHAN	10	PHANTOM2	Yes	General Equipment Phantom
S	GRID	MIND		223	CENTER	Yes	Structural Grid
S	GRID GRID	MINR SYMB		8	CENTER2	Yes	Structural Grid - Minor or Partial Grids Column Identification Bubbles
S S	GRID	EQPM		212 10	Continuous Continuous	Yes Yes	General Equipment
3	GINKL	EQFIN		10	Continuous	Tes	
S	GNRL	EQPM	HIDN	10	HIDDEN2	Yes	General Equipment Hidden
S	GNRL	EQPM	PHAN	10	PHANTOM2	Yes	General Equipment Phantom
S	GRID			223	CENTER	Yes	Structural Grid
S	GRID	MINR		8	CENTER2	Yes	Structural Grid - Minor or Partial Grids
S	GRID	SYMB		212	Continuous	Yes	Column Identification Bubbles
S S	JOIS JOIS	ABVE		2	Continuous DASHED2	Yes Yes	Structural Joists Structural Joists Above
S	PILE	HIDN		212	HIDDEN2	Yes	Piles Obscured by Foreground Objects
S	PILE	STL		210	Continuous	Yes	Structural Steel Piles
S	PILE	TMBR		2	Continuous	Yes	Timber Piles
S	PILE			2	Continuous	Yes	Structural Piles
S	RBAR			201	Continuous	Yes	Structural Steel Reinforcing Bar
S	RBAR	TIES		2	Continuous	Yes	Structural Steel Reinforcing Ties, Bridging, Stirrups, Etc
S	RENF	HIDN		201	HIDDEN2	Yes	Miscellaneous Reinforcing Elements
S	RENF	WMSH		212	WWF	Yes	Welded Wire Fabric Mesh
S	REFN			6	Continuous	Yes	Reinforcing Elements
S	ROOF	DECK		2	Continuous	Yes	Metal Roof Decking Outline of Roof, Openings and Changes in
S	ROOF	OTLN		2	Continuous	Yes	Elevation Hatch Patterns On Roofing Plans and Details
S S	ROOF ROOF	PATT ABVE		223 1	Continuous DASHED2	Yes Yes	Hatch Patterns On Roofing Plans and Details Roof Elements Above
S	ROOF	BLOW		1	Continuous	Yes	Roof Elements Below
S	ROOF	DLOW		3	Continuous	Yes	Structural Roof Elements
s	TRUS			212	Continuous	Yes	Trusses and Space Frames
S	TRUS	ABVE		2	DASHED2	Yes	Trusses and Space Frames Above
S	WALL	HIDN		4	HIDDEN2	Yes	Wall Element Obscured by Foreground Element
S	WALL	SHEA		4	Continuous	Yes	Structural Shear Walls
S	WALL	RETN		2	Continuous	Yes	Retaining Walls
S	WALL	PATT		8	Continuous	Yes	Hatch Patterns in Wall Elements
S	WALL	MSRY		2	Continuous	Yes	Masonry Wall Linework, Brick/Block Coursing, ETC
	WALL	CONC		4	Continuous	Yes	Structural Concrete Walls
S	VVALL						
S S	WALL			2	Continuous	Yes	Structural Walls
				2 7	Continuous Continuous	Yes Yes	Structural Walls External Reference Attachment Layer

1.26.3 LINETYPES

Name	Description	Example
BORDER2	BORDER2	
CENTER	CENTER	
CENTER2	CENTER2	
Continuous	Continuous	
DASHED2	DASHED2	
HIDDEN	HIDDEN	
HIDDEN2	HIDDEN2	
PHANTOM2	PHANTOM2	
WWF	WWF	

1.26.4 SYMBOLS

1.26.4.1 MISCELLANEOUS

Symbol	Block Name	Layer Name	Description
FIRST LINE SECOND LINE	CALLOUT.dwg	(Varies)	Callout Symbol
€ CL-1 CL-2	CLine.dwg	S-ANNO-SYMB	Center Line
COL	Col-Bubble1.dwg	S-GNRL-BUBL	Column Bubble
GRID	Col-Bubble2.dwg	S-GNRL-BUBL	Column Bubble
D D- SHT#	DET-SYMB.dwg	S-ANNO-SYMB	Detail Callout
A CONTRACT OF CONT	Legend1.dwg	S-ANNO-SYMB	Legend
N	N_Arrow.dwg	row.dwg S-ANNO-SYMB North Arrow	
PL1 PL2 PL3	Plate.dwg	S-ANNO-SYMB	Plate
	Rev-Tr.dwg	(Varies)	Revision Tag
	Sec1.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to North
	Sec2.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to North
	Sec3.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to South
	Sec4.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to South

	Sec5.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to West		
	Sec6.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to East		
1	Sec7.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to West		
	Sec8.dwg	S-ANNO-SYMB	Section, Detail, Elevation Callout, View to East		
<u>ن</u>	Sect-Mk_Detail.dwg	S-ANNO-SYMB	Section Mark Symbol		
x	Stamp1.dwg	S-ANNO-SYMB	Percent Complete/Date Stamp		
SUBTITLE	SUBTITLE Sub-Title.dwg		Sub-Title		
TITLE	Title.dwg		Title		
DEPTH W ^E WEIGHT	WF.dwg	S-ANNO-SYMB	Wide Flange (Depth WF Weight)		

1.27 APPENDIX M – TRAFFIC DISCIPLINE

1.27.1 CONTENT PREFERENCES

This Section Currently Under Construction

1.27.2 LAYER STRATAGEM

1.27.2.1 TRAFFIC WORK

DISCIPLINE	MAJOR	MINOR	DESC	COLOR	LINETYPE	PLOTS	DESCRIPTION
Т	ANNO			212	Continuous	Yes	Generic Annotation Features
Т	ANNO	DIMS		37	Continuous	Yes	Dimensions
Т	ANNO	MLIN		13	Continuous	Yes	Match Lines
Т	ANNO	NPLT		7	Continuous	No	Non Plot Features
Т	ANNO	SYMB		110	Continuous	Yes	Generic Symbols
Т	ANNO	TEXT		212	Continuous	Yes	Miscellaneous Annotations and Callouts
Т	ANNO	TTLB		110	Continuous	Yes	Title Block and Contract Border Information
Т	ANNO	REVS	0001	80	Continuous	Yes	Revision Cloud - PACC
Т	ANNO	REVS	TEXT	212	Continuous	Yes	Revision Delta and Text in Drawing & Contract Border
Т	ANNO	VPRT		7	Continuous	No	Viewport
Т	DVCS			110	Continuous	Yes	Generic Device Features
Т	DVCS	ATTN		110	Continuous	Yes	Impact Attenuator
Т	DVCS	BARR	WFB	110	Continuous	Yes	WaterFilled Barriers
T	DVCS	BARR	CONC	110	Continuous	Yes	Concrete Barriers
T	DVCS	BARR	TMBR	110	Continuous	Yes	Timber Barriers
T	DVCS	DIMS		37	Continuous	Yes	Device Dimensions
T	DVCS	DLIN		110	Continuous	Yes	Delineator
T	DVCS	FENC		110	Continuous	Yes	Fencing
T	DVCS	GDRL	BOX	110	Continuous	Yes	Box Beam Guide Rail
T	DVCS	GDRL	WBM	110	Continuous	Yes	W Beam Guide Rail
T	DVCS	GDRL	THRI	110	Continuous	Yes	Thrie Beam Guide Rail
T	DVCS	TEXT	THIN	212		Yes	
T		IEAI			Continuous		Device Annotations
T	MARK			220 220	Continuous	Yes	Generic Pavement Markings
	MARK	HIDN			Hidden	Yes	Pavment Markings Obscured by Other Objects
T	MARK	BLL_		220	BrokenLane	Yes	Broken Lane Line - 15-25
T	MARK	DOT_		220	NJDOT	Yes	NJ DOT - 10-30
Т	MARK	NJTP		220	NJTPK	Yes	NJ Turnpike Lane Line - 30-10
T	MARK	DLLL		220	DottedLane4	Yes	Dotted Lane Line - 2-4
T	MARK	DLLS		220	DottedLane2	Yes	Dotted Lane Line - 2-2
Т	MARK	DIMS		37	Continuous	Yes	Pavment Marking Dimensions
T	MARK	SYMB		220	Continuous	Yes	Marking Symbols - Directional Arrows
T	MARK	TEXT		212	Continuous	Yes	Marking Annotations and Leaders
Т	MARK	WORD		220	Continuous	Yes	Marking Words - Stop/MPH/etc.
Т	SGNL			110	Continuous	Yes	Generic Signal Features
T	SGNL	ABVE		110	Continuous	Yes	Above Ground Signal Equipment
Т	SGNL	COND		110	Dashed	Yes	Signal Conduit
T	SGNL	DIMS	POLE	37	Continuous	Yes	Signal Pole Location Dimensions
Т	SGNL	DIMS	HEAD	37	Continuous	Yes	Signal Head Dimensions
Т	SGNL	JBOX		110	Continuous	Yes	Signal Junction Box
Т	SGNL	LOOP		110	Dashed	Yes	Signal Loop or Video Zone
Т	SGNL	TEXT		212	Continuous	Yes	Signal Annotations
Т	SGNL	TEXT	HEAD	212	Continuous	Yes	Signal Head Annotations
Т	SIGN			110	Continuous	Yes	Sign Panels
Т	SIGN	DIMS		37	Continuous	Yes	Sign Dimensions and Leaders
Т	SIGN	SYMB		110	Continuous	Yes	Sign Symbols
Т	SIGN	TEXT		212	Continuous	Yes	Sign Annotations and Callouts
Т	PAVE			80	Continuous	Yes	Paving Features
Т	PAVE	ASPH		12	Continuous	Yes	Asphault Pavement
Т	PAVE	BRDR	PATT	14	Continuous	Yes	Pavement Hatch Borders
Т	PAVE	CONC		12	Continuous	Yes	Concrete Pavement
Т	PAVE	CURB	BACK	1	Continuous	Yes	Back of Curb
Т	PAVE	CURB	FACE	131	Continuous	Yes	Face of Curb
Т	PAVE	DIMS	-	37	Continuous	Yes	Pavement Dimensions



Т	PAVE	GRAV		12	Continuous	Yes	Gravel Pavement
Т	PAVE	JBAR		220	Continuous	Yes	Jersey Barriers
Т	PAVE	JNTS		220	Continuous	Yes	Expansion Joints
Т	PAVE	LIMT		13	Dashed	Yes	Paving Limits
Т	SITE			80	Continuous	Yes	Site Features
Т	SITE	ABUT		131	Continuous	Yes	Bridge Abutments
Т	SITE	ABVE		250	Continuous	Yes	Site Elements Overhead
Т	SITE	BLDG	TEXT	212	Continuous	Yes	Building and Shed Annotations
Т	SITE	BLDG		131	Continuous	Yes	Building and Shed Features
Т	SITE	COLS		191	Continuous	Yes	Columns, Piers and Posts
Т	SITE	FNCE		131	FENCE	Yes	Fence Lines
Т	SITE	FNDN		131	Continuous	Yes	Foundations
Т	SITE	LAND		131	Continuous	Yes	Landscape Features
Т	SITE	SWLK		80	Continuous	Yes	Sidewalk
Т	SITE	TEXT		212	Continuous	Yes	Sitework Text
Т	SITE	WALL		131	Continuous	Yes	Walls
Т	XREF			7	Continuous	Yes	External Reference Drawings
Т	XREF	RAST		7	Continuous	Yes	Raster Images

1.27.2.2 MAINTENANCE OF TRAFFIC WORK

DISCIPLINE	MAJOR	MINOR	DESC	PHASE	COLOR	LINETYPE	PLOTS	DESCRIPTION
Т	ANNO	DIMS		_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Dimensions
Т	ANNO	TEXT		_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Miscellaneous Annotations And Callouts
Т	DVCS			_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Generic Device Features
Т	DVCS	ATTN		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Impact Attenuator
Т	DVCS	BARR	WFB_	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Waterfilled Barriers
Т	DVCS	BARR	CONC	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Concrete Barriers
Т	DVCS	BARR	TMBR	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Timber Barriers
Т	DVCS	DIMS		_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Device Dimensions
Т	DVCS	DLIN		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Delineator
Т	DVCS	FENC		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Fencing
Т	DVCS	GDRL	BOX_	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Box Beam Guide Rail
Т	DVCS	GDRL	WBM_	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns W Beam Guide Rail
Т	DVCS	GDRL	THRI	_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Thrie Beam Guide Rail
Т	DVCS	TEXT		MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Device Annotations
т	MARK			_MPT	220	Continuous	Yes	Maintainance Of Traffic Patterns Generic Pavement Markings
Т	MARK	HIDN		_MPT	220	Hidden	Yes	Maintainance Of Traffic Patterns Pavment Markings Obscured By Other Objects
Т	MARK	BLL_		_MPT	220	BrokenLane	Yes	Maintainance Of Traffic Patterns Broken Lane Line - 15-25
Т	MARK	DOT_		_MPT	220	NJDOT	Yes	Maintainance Of Traffic Patterns Nj Dot - 10-30
Т	MARK	NJTP		_MPT	220	NJTPK	Yes	Maintainance Of Traffic Patterns Nj Turnpike Lane Line - 30-10
Т	MARK	DLLL		_MPT	220	DottedLane4	Yes	Maintainance Of Traffic Patterns Dotted Lane Line - 2-4
Т	MARK	DLLS		_MPT	220	DottedLane2	Yes	Maintainance Of Traffic Patterns Dotted Lane Line - 2-2
Т	MARK	DIMS		_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Pavment Marking Dimensions
Т	MARK	SYMB		_MPT	220	Continuous	Yes	Maintainance Of Traffic Patterns Marking Symbols - Directional Arrows
Т	MARK	TEXT		_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Marking Annotations And Leaders
Т	MARK	WORD		_MPT	220	Continuous	Yes	Maintainance Of Traffic Patterns Marking Words - Stop/Mph/Etc.
Т	SGNL			_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Generic Signal Features
Т	SGNL	ABVE		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Above Ground Signal Equipment
Т	SGNL	COND		_MPT	110	Dashed	Yes	Maintainance Of Traffic Patterns Signal Conduit
Т	SGNL	DIMS	POLE	_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Signal Pole Location Dimensions
Т	SGNL	DIMS	HEAD	_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Signal Head Dimensions
Т	SGNL	JBOX		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Signal Junction Box
Т	SGNL	LOOP		_MPT	110	Dashed	Yes	Maintainance Of Traffic Patterns Signal Loop Or Video Zone
Т	SGNL	TEXT		_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Signal Annotations
Т	SGNL	TEXT	HEAD	_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Signal Head Annotations
Т	SIGN			_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Sign Panels
Т	SIGN	DIMS		_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Sign Dimensions And Leaders
Т	SIGN	SYMB		_MPT	110	Continuous	Yes	Maintainance Of Traffic Patterns Sign Symbols
Т	SIGN	TEXT		_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Sign Annotations And Callouts
Т	PAVE			_MPT	80	Continuous	Yes	Maintainance Of Traffic Patterns Paving Features



Т	PAVE	ASPH		_MPT	12	Continuous	Yes	Maintainance Of Traffic Patterns Asphault Pavement
Т	PAVE	BRDR	PATT	_MPT	14	Continuous	Yes	Maintainance Of Traffic Patterns Pavement Hatch Borders
Т	PAVE	CONC		_MPT	12	Continuous	Yes	Maintainance Of Traffic Patterns Concrete Pavement
Т	PAVE	CURB	BACK	_MPT	1	Continuous	Yes	Maintainance Of Traffic Patterns Back Of Curb
Т	PAVE	CURB	FACE	_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Face Of Curb
Т	PAVE	DIMS		_MPT	37	Continuous	Yes	Maintainance Of Traffic Patterns Pavement Dimensions
Т	PAVE	GRAV		_MPT	12	Continuous	Yes	Maintainance Of Traffic Patterns Gravel Pavement
Т	PAVE	JBAR		_MPT	220	Continuous	Yes	Maintainance Of Traffic Patterns Jersey Barriers
Т	PAVE	JNTS		_MPT	220	Continuous	Yes	Maintainance Of Traffic Patterns Expansion Joints
Т	PAVE	LIMT		_MPT	13	Dashed	Yes	Maintainance Of Traffic Patterns Paving Limits
Т	SITE			_MPT	80	Continuous	Yes	Maintainance Of Traffic Patterns Site Features
Т	SITE	ABUT		_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Bridge Abutments
Т	SITE	ABVE		_MPT	250	Continuous	Yes	Maintainance Of Traffic Patterns Site Elements Overhead
Т	SITE	BLDG	TEXT	_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Building And Shed Annotations
т	SITE	BLDG		_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Building And Shed Features
Т	SITE	COLS		_MPT	191	Continuous	Yes	Maintainance Of Traffic Patterns Columns, Piers And Posts
Т	SITE	FNCE		_MPT	131	FENCE	Yes	Maintainance Of Traffic Patterns Fence Lines
Т	SITE	FNDN		_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Foundations
Т	SITE	LAND		_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Landscape Features
Т	SITE	SWLK		_MPT	80	Continuous	Yes	Maintainance Of Traffic Patterns Sidewalk
Т	SITE	TEXT		_MPT	212	Continuous	Yes	Maintainance Of Traffic Patterns Sitework Text
Т	SITE	WALL		_MPT	131	Continuous	Yes	Maintainance Of Traffic Patterns Walls

1.27.3 LINETYPES

Name	Description	Example
BROKENLANE		
Continuous	Continuous	
DASHED	Dashed (1x)	
DOTTEDLANE2		
DOTTEDLANE4		
FENCE		
GUIDEB		
GUIDET		
GUIDEW		
HIDDEN		
HIDDEN2		
NJDOT		
NJTPK		

1.27.4 SYMBOLS

1.27.4.1 REMOVAL

Symbol	Block name	Layer Name	Description

0	Cantilever sign structure with changeable message panel-removal.dwg	(Varies)	Cantilever Sign Structure with Changeable Message Panel
0	Cantilever sign structure with fixed message-removal.dwg	(Varies)	Cantilever Sign Structure with Fixed Message
	Crash cushion attenuator-removal.dwg	(Varies)	Crash Cushion Attenuator
	Curbed traffic guide system posts with base plate (without c)-removal.dwg	(Varies)	Curbed Traffic Guide System Posts with Base Plate (Without C)
	Direction of traffic (permanent conditions)-removal.dwg	(Varies)	Direction of Traffic (Permanent Conditions)
	Double post mounted sign with changeable message panel-removal.dwg	(Varies)	Double Post-Mounted Sign with Changeable Message Panel
XXX X	Removal sign panel to be modified- removal.dwg	(Varies)	Removal Sign Panel to be Modified
<u>* 0</u> *	Fence mounted sign with fixed message panel-removal.dwg	(Varies)	Fence-Mounted Sign With Fixed Message Panel
0 4 40	Gantry sign structure with changeable message panels-removal.dwg	(Varies)	Gantry Sign Structure with Changeable Message Panels
00	Gantry sign structure with fixed message panels-removal.dwg	(Varies)	Gantry Sign Structure with Fixed Message Panels
	Pavement marking arrow symbol (type a- e)-removal.dwg	(Varies)	Pavement Marking Arrow Symbol (Type A-E)
	Pavement marking line-removal.dwg	(Varies)	Pavement Marking Line
	Pedestrian push button standard with Identification-removal.dwg	(Varies)	Pedestrian Push-Button Standard with Identification
	Pole mounted back to back signs with fixed message panels-removal.dwg	(Varies)	Pole-Mounted Back-to- Back Signs with Fixed Message Panels

	Pole mounted right angle signs with fixed message panels-removal.dwg	(Varies)	Pole-Mounted Right Angle Signs with Fixed Message Panels
	Pole mounted sign with fixed message panel-removal.dwg	(Varies)	Pole-Mounted Sign with Fixed Message Panel
	Post mounted back to back signs with fixed message panels-removal.dwg	(Varies)	Post-Mounted Back-to- Back Signs with Fixed Message Panels
	Post mounted right angle signs with fixed message panels-removal.dwg	(Varies)	Post-Mounted Right-Angle Signs with Fixed Message Panels
	Post mounted sign with fixed message panel-removal.dwg	(Varies)	Post-Mounted Sign with Fixed Message Panel
	Reflectorized pavement marker- removal.dwg	(Varies)	Reflectorized Pavement Marker
	Roadway surveillance sensor with Identification-removal.dwg	(Varies)	Roadway Surveillance Sensor with Identification
	Sand barrel array-removal.dwg	(Varies)	Sand-Barrel Array
(101) A	Sign panel Identification-removal.dwg	(Varies)	Sign Panel Identification
X	Sign structure location Identification- removal.dwg	(Varies)	Sign Structure Location Identification
	Signal controller and cabinet ground mounted-removal.dwg	(Varies)	Signal Controller and Cabinet, Pole-Mounted
	Signal controller and cabinet pole mounted-removal.dwg	(Varies)	Signal Controller and Cabinet, Pole-Mounted
	Traffic guide posts-removal.dwg	(Varies)	Traffic Guide Posts
	Traffic post top side of pole mounted signal-removal.dwg	(Varies)	Traffic Post Top Side of Pole-Mounted Signal

0 <u>×</u> 0	Traffic signal span wire installation with span length-removal.dwg	(Varies)	Traffic Signal Span Wire Installation with Span Length
	Traffic signal standard with Identification- removal.dwg	(Varies)	Traffic Signal Standard with Identification
<u>4 x</u>	Traffic signal standard with mast arm length-removal.dwg	(Varies)	Traffic Signal Standard with Mast Arm Length
X	Vehicular signal head with Identification- removal.dwg	(Varies)	Vehicular Signal Head with Identification

1.27.4.2 GUIDE

Symbol	Block Name	Layer Name	Description
F.	D9-5.dwg	(Varies)	Reserved Handicapped Parking
EXIT	E5-1.dwg	(Varies)	Exit to Right in Distance
EXIT	E5-1L.dwg	(Varies)	Exit to Left – Immediate
EXIT K	E5-1Lx.dwg	(Varies)	Exit to Left in Distance
EXIT	E5-1R.dwg	(Varies)	Exit to Right – Immediate
EXIT T	E5-1Rx.dwg	(Varies)	Exit to Right in Distance
ROAD WORK AHEAD	G20-1f.dwg	(Varies)	"Road Work Ahead" Sign
END ROAD WORK	G20-2.DWG	(Varies)	"End Road Work" Sign
95	M1-1.DWG	(Varies)	Interstate Route Number Sign

XXX	M1-4-3DWG	(Varies)	Interstate Route Number Sign – 3 Digits
XX	M1-4.DWG	(Varies)	Roadway Route Number Sign – 2 Digits
XX	M1-5.DWG	(Varies)	Roadway Route Number Sign – 2 Digits
JCT	M2-1.DWG	(Varies)	Juncture Sign
NORTH	M3-1.DWG	(Varies)	"North" Sign
EAST	M3-2.DWG	(Varies)	"East" Sign
SOUTH	M3-3.DWG	(Varies)	"South" Sign
WEST	M3-4.DWG	(Varies)	"West" Sign
ALTERNATE	M4-1.DWG	(Varies)	"Alternate" Sign
ALT	M4-1a.dwg	(Varies)	"ALT" Sign
BY-PASS	M4-2.DWG	(Varies)	"By-Pass" Sign
BUSINESS	M4-3.dwg	(Varies)	"Business" Sign
TRUCK	M4-4.dwg	(Varies)	"Truck" Sign
ТО	M4-5.dwg	(Varies)	"To" Sign

END	M4-6.dwg	(Varies)	"End" Sign
TEMPORARY	M4-7.dwg	(Varies)	"Temporary" Sign
DETOUR	M4-8.dwg	(Varies)	"Detour" Sign
END DETOUR	M4-8a.dwg	(Varies)	"End Detour" Sign
DETOUR	M4-9I.dwg	(Varies)	Detour Left
DETOUR	M4-9lx.dwg	(Varies)	Detour Left, In Distance
DETOUR	M4-9r.dwg	(Varies)	Detour Right
DETOUR	M4-9rx.dwg	(Varies)	Detour Right, In Distance
DETOUR	M4-9x.dwg	(Varies)	Detour Ahead
DETOUR	M4-10l.dwg	(Varies)	Detour – Turn Left
DETOUR	M4-10r.dwg	(Varies)	Detour – Turn Right
	M5-1L.dwg	(Varies)	Left Turn Ahead
	M5-1R.dwg	(Varies)	Right Turn Ahead
5	M5-2L.dwg	(Varies)	Approaching Left Turn

	M5-2R.dwg	(Varies)	Approaching Right Turn
	M6-1I.dwg	(Varies)	Turn Left
	M6-1r.dwg	(Varies)	Turn Right
	M6-2I.dwg	(Varies)	Merge Left
	M6-2r.dwg	(Varies)	Merge Right
	M6-3.dwg	(Varies)	Continue Straight
\longleftrightarrow	M6-4.dwg	(Varies)	Must Turn Left or Right
	M6-5l.dwg	(Varies)	Must Bear Left or Turn Right
	M6-5r.dwg	(Varies)	Must Bear Right or Turn Left
	M6-6L.dwg	(Varies)	Lane Must Proceed Straight or Turn Left
	M6-6R.dwg	(Varies)	Lane Must Proceed Straight or Turn Right
	M6-7L.dwg	(Varies)	Lane Must Proceed Straight or Bear Left
	M6-7R.dwg	(Varies)	Lane Must Proceed Straight or Bear Right

1.27.4.3 MARKER

Symbol	Block Name	Layer Name	Description

	ERM-1818YY.dwg	(Varies)	Diamond Reflector Sign – Bright Color
	OM-3L.DWG	(Varies)	Rectangular Reflector Sign – Diagonals, Up to Left
	OM-3R.DWG	(Varies)	Rectangular Reflective Sign – Diagonals, Up to Right
000	OM-612-3.DWG	(Varies)	Rectangular Reflective Sign – Blank
	OM-612.DWG	(Varies)	Rectangular Reflective Sign – Circular Reflectors
	OM-1818Y.DWG	(Varies)	Diamond Reflective Sign
	OM-1818YB.dwg	(Varies)	Diamond Reflector Sign – Dark Color

1.27.4.4 MISCELLANEOUS

Symbol	Block Name	Layer Name	Description
	LIGHT.DWG	(Varies)	Single Light Symbol
·\$.	LIGHTS.DWG	(Varies)	Two Lights Symbol
ON OR ABOUT (DATE) THIS BRIDGE WILL BE CLOSED	S-3.DWG	(Varies)	"Bridge Will be Closed" Sign
PLAN ALT. ROUTE	S-4.DWG	(Varies)	"Plan Alt. Route" Sign

27.4.5	PROPOSED Symbol	Block Name	Layer Name	Description
	Gymbol	Block Name	Layer Name	Description
<		Back-up vehicle with flashing lights only- proposed.dwg	(Varies)	Back-Up Vehicle with Flashing Lights Only
		Back-up vehicle with impact attenuator and fasu-proposed.dwg	(Varies)	Back-Up Vehicle with Impact Attenuator and FASU
		Back-up vehicle with impact attenuator without fasu-proposed.dwg	(Varies)	Back-Up Vehicle with Impact Attenuator without FASU
_		Breakaway barricades (type iii) with attached sign-proposed.dwg	(Varies)	Breakaway Barricades (Type III), with Attached Sign
		Breakaway barricades (type iii)- proposed.dwg	(Varies)	Breakaway Barricades (Type III)
	•	Cantilever sign structure with changeable message panel- proposed.dwg	(Varies)	Cantilever Sign Structure with Changeable Message Panel
	•	Cantilever sign structure with fixed message-proposed.dwg	(Varies)	Cantilever Sign Structure with Fixed Message
		Contractor's vehicle-proposed.dwg	(Varies)	Contractor's Vehicle
		Crash cushion attenuator-proposed.dwg	(Varies)	Crash Cushion Attenuator
(Curbed traffic guide system posts with base plate (without c)-proposed.dwg	(Varies)	Curbed Traffic Guide System Posts with Base Plate (Without C)
<		Direction of detour (temporary traffic flow)-proposed.dwg	(Varies)	Direction of Detour (Temporary Traffic Flow)
<		Direction of haul route-proposed.dwg	(Varies)	Direction of Haul Route
		Direction of traffic (permanent conditions)-proposed.dwg	(Varies)	Direction of Traffic (Permanent Conditions)

1.27.4.5 PROPOSED

	Double post mounted sign with changeable message panel- proposed.dwg	(Varies)	Double Post-Mounted Sign with Changeable Message Panel
× <u>•</u> ×	Fence mounted sign with fixed message panel-proposed.dwg	(Varies)	Fence-Mounted Sign with Fixed Message Panel
	Flagger location-proposed.dwg	(Varies)	Flagger Location
FASU •••	Flashing arrow sign unit (fasu) caution mode indication-proposed.dwg	(Varies)	Flashing Arrow Sign Unit (FASU) Caution Mode Indication
FASU	Flashing arrow sign unit (fasu) double arrow indication-proposed.dwg	(Varies)	Flashing Arrow Sign Unit (FASU) Double-Arrow Indication
FASU	Flashing arrow sign unit (fasu) left arrow indication-proposed.dwg	(Varies)	Flashing Arrow Sign Unit (FASU) Left Arrow Indication
FASU	Flashing arrow sign unit (fasu) right arrow indication-proposed.dwg	(Varies)	Flashing Arrow Sign Unit (FASU) Right Arrow Indication
• • •	Gantry sign structure with changeable message panels-proposed.dwg	(Varies)	Gantry Sign Structure with Changeable Message Panels
••	Gantry sign structure with fixed message panels-proposed.dwg	(Varies)	Gantry Sign Structure with Fixed Message Panels
-	Pavement marking arrow symbol (type a-e)-proposed.dwg	(Varies)	Pavement Marking Arrow Symbol (Type A-E)
	Pavement marking line-proposed.dwg	(Varies)	Pavement Marking Line
	Pedestrian push button standard with Identification-proposed.dwg	(Varies)	Pedestrian Push-Button Standard with Identification
	Pedestrian signal head with Identification-proposed.dwg	(Varies)	Pedestrian Signal Head with Identification
\odot \odot \odot	Plastic delineator drums with attached warning lights-proposed.dwg	(Varies)	Plastic Delineator Drums with Attached Warning Lights

$\oplus \ \oplus \ \oplus$	Plastic delineator drums-proposed.dwg	(Varies)	Plastic Delineator Drums
	Pole mounted back to back signs with fixed message panels-proposed.dwg	(Varies)	Pole-Mounted Back-to- Back Signs with Fixed Message Panels
	Pole mounted right angle signs with fixed message panels-proposed.dwg	(Varies)	Pole Mounted Right-Angle Signs with Fixed Message Panels
	Pole mounted sign with fixed message panel-proposed.dwg	(Varies)	Pole-Mounted Sign with Fixed Message Panel
	Reflectorized pavement marker- proposed.dwg	(Varies)	Reflectorized Pavement Marker
	Roadway surveillance sensor with Identification-proposed.dwg	(Varies)	Roadway Surveillance Sensor with Identification
	Sand barrel array-proposed.dwg	(Varies)	Sand-Barrel Array
\otimes \otimes \otimes	Sand filled barriers-proposed.dwg	(Varies)	Sand-Filled Barriers
	Sign on temporary sign stand- proposed.dwg	(Varies)	Sign on Temporary Sign Stand
(101) A	Sign panel Identification-proposed.dwg	(Varies)	Sign Panel Identification
X	Sign structure location Identification- proposed.dwg	(Varies)	Sign Structure Location Identification
	Signal controller and cabinet ground mounted-proposed.dwg	(Varies)	Signal Controller and Cabinet, Ground-Mounted
	Signal controller and cabinet pole mounted-proposed.dwg	(Varies)	Signal Controller and Cabinet, Pole-Mounted
	Temporary impact attenuator- proposed.dwg	(Varies)	Temporary Impact Attenuator
	proposed.dwg Roadway surveillance sensor with Identification-proposed.dwg Sand barrel array-proposed.dwg Sand filled barriers-proposed.dwg Sign on temporary sign stand- proposed.dwg Sign panel Identification-proposed.dwg Sign structure location Identification- proposed.dwg Sign structure location Identification- proposed.dwg Signal controller and cabinet ground mounted-proposed.dwg Signal controller and cabinet ground mounted-proposed.dwg Temporary impact attenuator-	(Varies) (Varies) (Varies) (Varies) (Varies) (Varies) (Varies) (Varies)	Marker Roadway Surveillance Sensor with Identification Sand-Barrel Array Sand-Filled Barriers Sign on Temporary Sign Stand Sign Panel Identification Sign Structure Location Identification Signal Controller and Cabinet, Ground-Mounted Signal Controller and Cabinet, Pole-Mounted

	Temporary reflectorized pavement marker-proposed.dwg	(Varies)	Temporary Reflectorized Pavement Marker
FIPST_LUNE SECOND_LUNE	Tra-callout.dwg	(Varies)	Callout Symbol
D D# SHT#	Tra-det-symb.dwg	(Varies)	Detail Symbol
	Traffic cone-proposed.dwg	(Varies)	Traffic Cone
• • •	Traffic cones-proposed.dwg	(Varies)	Traffic Cones
	Traffic guide posts-proposed.dwg	(Varies)	Traffic Guide Posts
	Traffic lane or other area closed to traffic-proposed.dwg	(Varies)	Traffic Lane or Other Area Closed to Traffic
••	Traffic post top side of pole mounted signal-proposed.dwg	(Varies)	Traffic Post Top Side of Pole-Mounted Signal
• × •	Traffic signal span wire installation with span length-proposed.dwg	(Varies)	Traffic Signal Span Wire Installation with Span Length
	Traffic signal standard with Identification- proposed.dwg	(Varies)	Traffic Signal Standard with Identification
A × •	Traffic signal standard with mast arm length-proposed.dwg	(Varies)	Traffic Signal Standard with Mast Arm Length
	Trailer mounted flashing arrow sign unit (fasu)-proposed.dwg	(Varies)	Trailer-Mounted Flashing Arrow Sign Unit (FASU)
	Trailer mounted variable message sign unit (vmsu)-proposed.dwg	(Varies)	Trailer-Mounted Flashing Variable Message Sign Unit (VMSU)
	Tra-sec-mark.dwg	(Varies)	Section Mark

X	Vehicle detector with Identification- proposed.dwg		Vehicle Detector with Identification
Vehicular signal head with Identification proposed.dwg		(Varies)	Vehicular Signal Head with Identification
$-\bigcirc_{l}^{l}$ $-\bigcirc_{l}^{l}$ $-\bigcirc_{l}^{l}$ $-$	Warning lights (two)(type a b or c)- proposed.dwg (Varies)		Warning Lights (Two)(Type A, B, or C)
	Warning lights (type a b or c)- proposed.dwg	(Varies)	Warning Lights (Type A, B, or C)
	Work area-proposed.dwg	(Varies)	Work Area

1.27.4.6 REGULATORY

.4.0	REGULATORY				
	Symbol	Block Name	Layer Name	Description	
	EXIT VONLY	E11-1.DWG	(Varies)	"Exit Only" Sign	
	NO PARKING EXCEPT AITMOREED VEHICLE KR7-1016a.dwg		(Varies)	"No Parking" Sing	
	STOP	R1-1.DWG	(Varies)	Stop Sign	
	YIELD	R1-2.DWG	(Varies)	Yield Sign	
	SPEED LIMIT XX	R2-1.DWG	(Varies)	Speed Limit Sign	
	REDUCED SPEED AHEAD	R2-5a.dwg	(Varies)	"Reduced Speed Ahead" Sign	
	REDUCED SPEED XX	R2-5b.dwg	(Varies)	Reduced Speed Sign with Posted Speed	
	SPEED ZONE AHEAD	R2-5c.dwg	(Varies)	"Speed Zone Ahead" Sign	

R	R3-1.DWG	(Varies)	Right Turn Prohibited
	R3-2.DWG	(Varies)	Left Turn Prohibited
NO TURNS	R3-3.DWG	(Varies)	"No Turns" Sign
(\mathbf{R})	R3-4.DWG	(Varies)	U-Turn Prohibited Sign
ONLY	R3-5.DWG	(Varies)	Left Turn Only Ahead
K	R3-6.DWG	(Varies)	Exit on Left Ahead
LEFT LANE MUST TURN LEFT	R3-7.DWG	(Varies)	"Left Lane Must Turn Left" Sign
	R3-8.DWG	(Varies)	Two-Lane Sign for Left Turns and Proceeding Straight
ONLY	R3-21.DWG	(Varies)	U-Turn Sign
ONLY	R3-23.DWG	(Varies)	Proceed Straight Only
ONLY	R3-24.DWG	(Varies)	Right Turn Only Ahead
	R3-26.DWG	(Varies)	Exit on Right Ahead
	R3-27.DWG	(Varies)	Left or Right Turn Only Ahead
	R3-28.DWG	(Varies)	Left or Right Turn, or Proceed Straight, Ahead

RIGHT LANE MUST TURN LEFT	R3-32.DWG	(Varies)	"Right Lane Must Turn Left" Sign
THRU TRAFFIC USE LEFT LANE	R3-33.DWG	(Varies)	"Thru Traffic Use Left Lane" Sign
THRU TRAFFIC USE CENTER LANE	R3-34.DWG	(Varies)	"Thru Traffic Use Center Lane" Sign
THRU TRAFFIC USE RIGHT LANE	R3-35.DWG	(Varies)	"Thru Traffic Use Right Lane" Sign
D0 NOT PASS	R4-1.DWG	(Varies)	"Do Not Pass" Sign
PASS WITH CARE	R4-2.DWG	(Varies)	"Pass with Care" Sign
TRUCKS USE RIGTH LANE	R4-5.DWG	(Varies)	"Trucks Use Right Lane" Sign
	R4-7.DWG	(Varies)	Keep to Right of Divider
	R4-8.DWG	(Varies)	Keep to Left of Divider
STAY IN LANE	R4-9.DWG	(Varies)	"Stay in Lane"
DO NOT ENTER	R5-1.DWG	(Varies)	"Do Not Enter" Sign
WRONG WAY	R5-1a.dwg	(Varies)	"Wrong Way" Sign
	R5-2.DWG	(Varies)	Trucks Prohibited
	R5-6.DWG	(Varies)	Bicycles Prohibited

	R7-201a.dwg	(Varies)	Tow Away Zone Sign
NO STANDING ANY TIME	R7-4R.dwg	(Varies)	Standing Prohibited Sign (To Right)
NO STANDING ANY TIME	R7-4L.dwg	(Varies)	Standing Prohibited Sign (To Left)
NO STANDING ANY TIME	R7-4.dwg	(Varies)	Standing Prohibited Sign (General Vicinity)
ONE WAY	R6-2R.DWG	(Varies)	Vertical One Way to Right Sign
ONE WAY	R6-2L.DWG	(Varies)	Vertical One Way to Left Sign
ONE WAY	R6-1R.DWG	(Varies)	Horizontal One Way to Right Sign
ONE WAY	R6-1L.DWG	(Varies)	Horizontal One Way to Left Sign
SIDEWALK CLOSED	R5-9b.dwg	(Varies)	Sidewalk Closed – Alternative Crossing Location (Right)
SIDEWALK CLOSED	R5-9a.dwg	(Varies)	Sidewalk Closed – Alternative Crossing Location (Left)
SIDEWALK CLOSED	R5-9.DWG	(Varies)	Sidewalk Closed – Alternative Crossing Location (Either Left or Right)
SIDEWALK CLOSED	R5-8.DWG	(Varies)	"Sidewalk Closed" Sign
PEDESTRIAN CROSSWALK	R5-7.DWG	(Varies)	Pedestrian Crosswalk Sign

DO NOT STOP ON TRACKS	R8-8.dwg	(Varies)	"Do Not Stop on Tracks" Sign
(\mathbf{k})	R9-3a.dwg	(Varies)	Crossing Prohibited Sign
ROAD CLOSED	R11-2.DWG	(Varies)	"Road Closed" Sign
ROAD CLOSED AHEAD LOCAL TRAFFIC ONLY	R11-3.DWG	(Varies)	"Road Closed Ahead - Local Traffic Only" Sign
ROAD CLOSED TO THRU TRAFFIC	R11-4.DWG	(Varies)	"Road Closed to Thru Traffic" Sign
WEIGHT LIMIT 10 TONS	R12-2.DWG	(Varies)	"Weight Limit 10 Tons" Sign
RAIL (NO) CEP POD	R15-1.DWG	(Varies)	Railroad Crossing
	Yield to pedestrian.dwg	(Varies)	Yield to Pedestrian Sign

1.27.4.7 REMOVAL

Symbol	Block Name	Layer Name	Description
055-	Cantilever sign structure with changeable message panel-removal.dwg	(Varies)	Cantilever Sign Structure with Changeable Message Panel
0	Cantilever sign structure with fixed message- removal.dwg	(Varies)	Cantilever Sign Structure with Fixed Message
	Crash cushion attenuator-removal.dwg	(Varies)	Crash Cushion Attenuator
ê ê ê	Curbed traffic guide system posts with base plate (without c)-removal.dwg	(Varies)	Curbed Traffic Guide System Posts with Base Plate (Without C)
	Double post mounted sign with changeable message panel-proposed.dwg	(Varies)	Double Post-Mounted Sign with Changeable Message Panel

	Removal sign panel to be relocated- removal.dwg	(Varies)	Fence-Mounted Sign with Fixed Message Panel
* <u>-</u> *	Fence mounted sign with fixed message panel- removal.dwg	(Varies)	Flagger Location
0-55-0	Gantry sign structure with changeable message panels-removal.dwg	(Varies)	Gantry Sign Structure with Changeable Message Panels
0-==-0	Gantry sign structure with fixed message panels-removal.dwg	(Varies)	Gantry Sign Structure with Fixed Message Panels
<	Pavement marking arrow symbol (type a-e)- removal.dwg	(Varies)	Pavement Marking Arrow Symbol (Type A-E)
	Pavement marking line-removal.dwg	(Varies)	Pavement Marking Line
	Pedestrian push button standard with Identification-removal.dwg	(Varies)	Pedestrian Push-Button Standard with Identification
	Pedestrian signal head with Identification- removal.dwg	(Varies)	Pedestrian Signal Head with Identification
ZŌZ	Pole mounted back to back signs with fixed message panels-removal.dwg	(Varies)	Pole-Mounted Back-to-Back Signs with Fixed Message Panels
	Pole mounted right angle signs with fixed message panels-removal.dwg	(Varies)	Pole Mounted Right-Angle Signs with Fixed Message Panels
	Pole mounted sign with fixed message panel- removal.dwg	(Varies)	Pole-Mounted Sign with Fixed Message Panel
	Reflectorized pavement marker-removal.dwg	(Varies)	Reflectorized Pavement Marker
<pre></pre>	Roadway surveillance sensor with Identification-removal.dwg	(Varies)	Roadway Surveillance Sensor with Identification
	Sand barrel array-removal.dwg	(Varies)	Sand-Barrel Array

(101) () ()	Sign panel Identification-removal.dwg	(Varies)	Sign Panel Identification
(\mathbf{x})	Sign structure location Identification- removal.dwg	(Varies)	Sign Structure Location Identification
	Signal controller and cabinet ground mounted- removal.dwg	(Varies)	Signal Controller and Cabinet, Ground-Mounted
	Signal controller and cabinet pole mounted- removal.dwg	(Varies)	Signal Controller and Cabinet, Pole-Mounted
	Traffic guide posts-removal.dwg	(Varies)	Traffic Guide Posts
$< \frac{1}{\sqrt{2}} (1)$	Traffic post top side of pole mounted signal- removal.dwg	(Varies)	Traffic Post Top Side of Pole- Mounted Signal
C☆C	Traffic signal span wire installation with span length-removal.dwg	(Varies)	Traffic Signal Span Wire Installation with Span Length
	Traffic signal standard with Identification- removal.dwg	(Varies)	Traffic Signal Standard with Identification
Δ()	Traffic signal standard with mast arm length- removal.dwg	(Varies)	Traffic Signal Standard with Mast Arm Length
	Vehicle detector with Identification-removal.dwg	(Varies)	Vehicle Detector with Identification
(X)<7	Vehicular signal head with Identification- removal.dwg	(Varies)	Vehicular Signal Head with Identification

1.27.4.8 WARNING

Symbol	Block Name	Layer Name	Description
WORK AREA XXXX	KW21-4.DWG	(Varies)	"Work Area" Sign with Input Field
XXX FEET	SupPlate.dwg	(Varies)	"XXX FEET" Sign

W1-1L.DWG	(Varies)	Left Turn Ahead
W1-1R.DWG	(Varies)	Right Turn Ahead
W1-2L.DWG	(Varies)	Left Bend Ahead
W1-2R.DWG	(Varies)	Right Bend Ahead
W1-3L.DWG	(Varies)	Lane Shift to Left Ahead
W1-3R.DWG	(Varies)	Lane Shift to Right Ahead
W1-4aL.dwg	(Varies)	Bear Left Ahead
W1-4aR.dwg	(Varies)	Bear Right Ahead
W1-4bL.dwg	(Varies)	Bear Left Ahead (Two Lanes)
W1-4bR.dwg	(Varies)	Bear Right Ahead (Two Lanes)
W1-4cL.dwg	(Varies)	Bear Left Ahead (Three Lanes)
W1-4cR.dwg	(Varies)	Bear Right Ahead (Three Lanes)
W1-5L.DWG	(Varies)	Lane Swerves Left
W1-5R.DWG	(Varies)	Lane Swerves Right
	W1-1R.DWG W1-2L.DWG W1-2R.DWG W1-3R.DWG W1-3R.DWG W1-4aR.dwg W1-4aR.dwg W1-4bL.dwg W1-4bR.dwg W1-4bR.dwg W1-4cR.dwg W1-4cR.dwg	W1-1R.DWG(Varies)W1-2L.DWG(Varies)W1-2R.DWG(Varies)W1-3L.DWG(Varies)W1-3R.DWG(Varies)W1-4AL.dwg(Varies)W1-4AL.dwg(Varies)W1-4AR.dwg(Varies)W1-4bL.dwg(Varies)

			Must Turn I off
	W1-6L.DWG	(Varies)	Must Turn Left
	W1-6R.DWG	(Varies)	Must Turn Right
	W1-7.DWG	(Varies)	Must Turn Either Left or Right
	W1-8L.DWG	(Varies)	Left Bend Arrow Sign
	W1-8R.DWG	(Varies)	Right Bend Arrow Sign
	W2-1.DWG	(Varies)	Four-Way Intersection Sign
	W2-2L.DWG	(Varies)	Side Street Intersection on Left Ahead
	W2-2R.DWG	(Varies)	Side Street Intersection on Right Ahead
	W2-3L.DWG	(Varies)	Diverging Street Ahead – Left
	W2-3R.DWG	(Varies)	Diverging Street Ahead – Right
	W2-4.DWG	(Varies)	Three-Way Intersection
Y	W2-5.DWG	(Varies)	Three-Way Intersection (Diverging)
	W2-7-NY.DWG	(Varies)	Converging Street Ahead – Left
	W2-8-NY.DWG	(Varies)	Converging Street Ahead – Left

	W2-10-NY.DWG	(Varies)	Alternating Intersections Ahead
	W2-11-NY.DWG	(Varies)	Alternating Intersections Ahead
11	W2-14-NY.DWG	(Varies)	Traffic Circle
STOP	W3-1.DWG	(Varies)	"Stop Ahead" Sign
	W3-1a.dwg	(Varies)	Stop Ahead
YIELD	W3-2.DWG	(Varies)	"Yield Ahead" Sign
V	W3-2a.dwg	(Varies)	Yield Ahead
	W3-3.DWG	(Varies)	Traffic Light Ahead
V	W3-4-NY.DWG	(Varies)	Road Splits Ahead
	W3-11-NY.DWG	(Varies)	Road Narrows
SINGLE	W3-14-NY.DWG	(Varies)	"Single Lane" Sign
	W4-1L.DWG	(Varies)	Lane Merges from Left Ahead
	W4-1R.DWG	(Varies)	Lane Merges from Right Ahead
	W4-2L.DWG	(Varies)	Lanes Merge from Left

	W4-2R.DWG	(Varies)	Lanes Merge from Right
21	W4-3L.DWG	(Varies)	Merging from Left
15	W4-3R.DWG	(Varies)	Merging from Right
ROAD	W5-1.DWG	(Varies)	"Road Narrows" Sign
NARROW BRIDGE	W5-2.DWG	(Varies)	"Narrow Bridge" Sign
ONE LANE BRIDGE	W5-3.DWG	(Varies)	"One Lane Bridge" Sign
RAMP	W5-4.DWG	(Varies)	"Ramp Narrows" Sign
\$* 7	W6-1.DWG	(Varies)	Divergence of Lanes
415	W6-2.DWG	(Varies)	Convergence of Lanes
	W6-3.DWG	(Varies)	Two-Way Traffic
	W7-1.DWG	(Varies)	Decline
8%	W7-1b.dwg	(Varies)	Decline with Percent Gradation
BUMP	W8-1.DWG	(Varies)	"Bump" Sign
DIP	W8-2.DWG	(Varies)	"Dip" Sign

PAVEMENT	W8-3.DWG	(Varies)	"Pavement Ends" Sign
SOFT SHOULDER	W8-4.DWG	(Varies)	"Soft Shoulder" Sign
	W8-5.dwg	(Varies)	Car Swerve Area
TRUCK CROSSING	W8-6.DWG	(Varies)	"Truck Crossing" Sign
LOOSE GRAVEL	W8-7.DWG	(Varies)	"Loose Gravel" Sign
LOW SHOULDER	W8-9.DWG	(Varies)	"Low Shoulder" Sign
	W8-9a.dwg	(Varies)	Uneven Pavement
LEFT LANE ENDS	W9-1L.DWG	(Varies)	"Left Lane Ends" Sign
RIGHT LANE ENDS	W9-1R.DWG	(Varies)	"Right Lane Ends" Sign
LANE FINS MERGE LEFT	W9-2L.DWG	(Varies)	"Lane Ends Merge Left" Sign
LANE FINS MERGE RIGHT	W9-2R.DWG	(Varies)	"Lane Ends Merge Right" Sign
CENTER LANE CLOSED XXX	W9-3.DWG	(Varies)	"Center Lane Closed" Sign with Input Field
R	W10-1.DWG	(Varies)	Railroad Crossing
	W10-2.DWG	(Varies)	Railroad Crossing & Adjacent 4-Way Intersection

	W10-3.DWG	(Varies)	Railroad Crossing & Adjacent 3-Way Intersection
T	W10-4.DWG	(Varies)	Railroad Crossing & Side Street Intersection
ক্ষ	W11-1.DWG	(Varies)	Bicycle Area
X	W11-2.DWG	(Varies)	Pedestrian Crossing
	W11-3.DWG	(Varies)	Deer Area
	W11-7.DWG	(Varies)	Horseback Riding Area
Le la	W11-9.DWG	(Varies)	Handicapped Zone
X	W11A-2.DWG	(Varies)	Pedestrian Crossing (Crosswalk)
XX	W12-1.DWG	(Varies)	Road Divides
12-6	W12-2.DWG	(Varies)	Vertical Clearance Sign
XX M.P.H.	W13-1.DWG	(Varies)	Speed Limit Sign
EXIT XX M.P.H.	W13-2.DWG	(Varies)	Speed Limit at Exit
RAMP XX M.P.H.	W13-3.DWG	(Varies)	Speed Limit on Ramp
DEAD END	W14-1.DWG	(Varies)	"Dead End" Sign

NO OUTLET	W14-2.DWG	(Varies)	"No Outlet" Sign
NO PASSING ZONE	W14-3.DWG	(Varies)	"No Passing Zone" Sign
ROAD WORK XXXX	W20-1.DWG	(Varies)	"Road Work" Sign with Input Field
DETOUR	W20-2.DWG	(Varies)	"Detour" Sign with Input Field
ROAD CLOSED XXXX	W20-3.DWG	(Varies)	"Road Closed" Sign with Input Field
ONE LANE ROAD XXX	W20-4.DWG	(Varies)	"One Lane Road" Sign with Input Field
LEFT TWO LANES CLOSED XXX	W20-5aL.dwg	(Varies)	"Left Two Lanes Closed" Sign with Input Field
RIGHT TWO LAMES CLOSED XXX	W20-5aR.dwg	(Varies)	"Right Two Lanes Closed" Sign with Input Field
LEFT LANE CLOSED XXXX	W20-5L.DWG	(Varies)	"Left Lane Closed" Sign with Input Field
RIGHT LANE CLOSED XXXX	W20-5R.DWG	(Varies)	"Right Lane Closed" Sign with Input Field
Ť	W20-7a.dwg	(Varies)	Flagger Ahead
WORKERS	W21-1.DWG	(Varies)	"Workers" Sign
Í.	W21-1a.dwg	(Varies)	Workers Ahead
ROAD WORK XXXX	W21-4.DWG	(Varies)	"Road Work" Sign

SHOULDER WORK	W21-5.DWG	(Varies)	"Shoulder Work" Sign
RIGHT SHOULDER CLOSED	W21-5a.dwg	(Varies)	"Right Shoulder Closed" Sign
RIGHT SHOULDER CLOSED XXXX	W21-5b.dwg	(Varies)	"Right Shoulder Closed" Sign with Input Field